SOYBEANS, IRRIGATED, HIGH PLAINS II

Estimated Cost	ts, And Re	Requirements Per Acre Of Soybeans, High Level Managem					
Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
			•		V		
Shred & Disc	1,12,15	Nov	1	.20	.16	\$.21	\$.43
Chisel and Harrow	1,7,20	Dec	1	.31	.25	.09	.10
Offset Disc	1,13	Feb	1	.31	.25	.17	.36
Float	2,8	Mar	1	.63	.50	.16	.96
Apply and Incorp. Herb.	2,12,23	Mar	2	.50	.40	.25	.46
List & Fert	1,11	Mar	1	. 25	.20	.26	.41
Cultivate	2,4	Apr	1	.16	.13	.11	.15
Plant	1,11	May	1	.21	.17	.22	.34
Cultivate	2,4	June	1	.16	.13	.11	.15
Water Furrow	2,24	July	1	<u>. 20</u>	.16	<u>.01</u>	.02
TOTALS				2.93	2.35	\$ 1.59	\$ 3.38
Irrigation:						٠	
Preplant (2	2)	Apr	1	.74		\$ 2.76	\$ 4.50
Postplant ((2)	July- Aug	3	1.47		5.52	9.00
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 acre inches preplant and 4 acre inches at each postplant.

SOYBEANS, IRRIGATED, HIGH PLAINS II

Estimated Costs And Returns Per Acre Of Soybeans, Typical Management

*****	Estimated Costs And Returns re		Price or		Value or
	Item	Unit	Cost/Unit	Quantity	Cost
1.	Gross receipts, from production:	bu.	\$ 2.50	35	\$ 87.50
2.	Variable Costs:				
	Pre-Harvest:				
	Seed	1b.	.08	75	\$ 6.00
	Fertilizer (0-40-0)	ac.	3.20	1 ,	3.20
	Herbicide	pt.	2.75	1.5	4.13
	Machinery	ac.	1.76	1	1.76
	Tractor (1)	hr.	1.63	1.03	1.68
	Tractor (2)	hr.	1.41	1.65	2.33
	Labor, Tractor & Machinery	hr.	2.00	2.93	5.86
	Labor, Irrigation	hr.	1.75	1.72	3.01
	Irrigation Machinery	ac.	7.09	1	7.09
	Pickup, Miscellaneous	ac.	5.00	ī	5.00
	Interest on Op. Cap.	\$.085	20.00	1.70
	Subtotal, Pre-Harvest				\$ 41.76
	Harvest:				
	Custom	ac.	5.00	1	\$ 5.00
	Haul	bu.	.08	35	2.80
	Subtotal, Harvest		•00	33	\$ 7.80
	Total Variable Costs				\$ 49.56
3.	Income Above Variable Costs				\$ 37.94
4.	Fixed Costs:				
	Machinery	ac.	3.76	1	\$ 3.76
	Tractor (1)	hr.	1.98	1.03	2.04
	Tractor (2)	hr.	1.46	1.65	2.41
	Irrigation	ac.	11.55	1	11.55
	Land (Net Rent)	ac.	25.76	ī	25.76
	Total Fixed Costs				\$ 45.52
5.	Total Costs				\$ 95.08
6.	Net Returns				\$ (8.30)

New, 1972

 $[\]underline{1}$ / \$35/acre less 80% of irrigation fixed costs

SOYBEANS, IRRIGATED, HIGH PLAINS II

Estimated Costs, And Requirements Per Acre Of Soybeans, 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 and Harrow	1,7,20	Dec	1	.31	.25	.10	.11
Offset Disc	1,13	Feb	1	.31	.25	.19	.40
Float	2,8	Mar	1	.63	.50	.18	1.10
Apply and In- corp. Herb.	2,12,23	Mar	2	.50	.40	.28	.50
List & Fert	1,11	Mar	1	.25	.20	. 29	.45
Cultivate	2,4	Apr	1	.16	.13	.12	.17
Plant	1,11	May	1	.21	.17	. 24	.37
Cultivate	2,4	June	1	.16	.13	.12	.17
Water Furrow	2,24	Ju1y	1	.20	.16	.01	.02
TOTALS				2.93	2.35	\$ 1.76	\$ 3.76
Irrigation:							
Preplant (2)	Mar	1	.74		\$ 3.04	\$ 4.95
Postplant (2)	Jun-Aug	g 2	.98		4.05	6.60
TOTALS				1.72		\$ 7.09	\$11.55

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

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

⁽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.

Estimated Costs And Returns Per Acre Of Sugar Beets, High Level Management Value or Price or Quantity Unit Item Cost Cost/Unit Gross receipts, from production: \$231.00 22.0 \$ 10.50 Beets (14% sugar) ton 1.0 30.00 30.00 Pasture Tops ac. \$261.00 Total Variable Costs: Pre-Harvest: \$ 4.00 10.0 1b. .40 Seed 1.0 10.80 10.80 Fertilizer (80-100-0) ac. 4.70 1.5 3.13 Herbicide pt. 28.00 7.0 4.00 ac. Insecticide (custom) 2.14 1.0 2.14 ac. Machinery 1.02 1.51 1.48 Tractor (1) hr. 1.28 1.48 1.89 Tractor (2) hr. 6.24 3.12 Labor, Tractor & Machinery hr. 2.00 6.44 1.75 3.68 hr. Labor, Irrigation 9.0 13.50 1.50 hr. Labor, Hoe, Thin 1.0 13.80 13.80 Irrigation Machinery ac. 1.0 5.00 5.00 ac. Pickup & Miscellaneous 4.17 .085 49.01 Interest on Op. Cap. \$102.19 Subtotal, Pre-Harvest Harvest & Costs: 5.00 1.0 Windrow tops (custom) 5.00 ac. 2.25 25.0 49.50 Harvest & haul (custom) ton \$ 54.50 Subtotal Harvest Costs \$156.69 Total Variable Costs \$104.31 Income Above Variable Costs 3. 4. Fixed Costs: 4.50 4.50 1.0 Machinery ac. 2.66 1.80 1.02 hr. Tractor (1) 1.97 1.33 1.48 Tractor (2) hr. 22.50 22.50 1.0 Irrigation ac. 32.00 32.00 1.0 Land (Net Rent) 1/ ac. \$ 63.63 Total Fixed Costs \$220.32 Total Costs 5. \$ 40.68 Net Returns 22.0 \$ 44.00 2.00 7. Sugar Act Payment ton \$ 84.68 Net Return including Sugar Act Payment

^{1/ \$50/}acre less 80% of irrigation fixed costs

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

New, 1972

Estimated Costs, And Requirements Per Acre Of Sugar Beets, High Level Management

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, 0il, Lub., Rep. Per Acre	Fixed costs Per Acre
Shred & Disc	1,12,15	Nov	1	.20	.16	\$.21	\$.43
Plow, Bust	1,6,21	Dec	1	.41	. 33	.16	.33
Tandem Disc	2,12	Jan	2	.50	.40	.20	.40
Float	2,8	Jan	2	.63	.50	.16	.90
List & Fert	1,11	Jan	1	. 25	.20	.26	.41
Shape, Plant	1,10, 11,19	Feb	1	.41	.33	.66	1.10
Thin	2,22	Mar	1	.25	.20	.15	.47
Cultivate	2,4	Mar- Sept	3	.47	.38	.34	.46
Cultivate Hoeing & Thi	nning	June- July	ż	<u>9.00</u> *			
TOTALS				12.12	2.50	\$ 2.14	\$ 4.50
Irrigation:	(2)	Feb- Sept	7	3.68		\$13 . 80	\$22.50

⁽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.

Estimated Costs And Returns Per Acre Of Sugar Beets, Typical Management

Beets		Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
Pasture Tops Total 2. Variable Costs Pre-Harvest: Seed Fertilizer (80-60-0) ac. 7.60 1.0 7.60 Herbicide pt. 3.13 1.5 4.77 Insecticide (custom) ac. 4.00 7.0 28.00 Machinery ac. 2.37 1.0 2.37 Tractor (1) hr. 1.63 1.02 1.66 Tractor (2) hr. 1.41 1.48 2.09 Labor, Trigation hr. 1.75 3.19 5.51 Labor, Hoe and Thin hr. 1.50 9.0 13.51 Irrigation, Machinery ac. 13.89 1.0 13.89 Pickup & Miscellaneous ac. 5.00 1.0 5.00 Interest on Op. Cap. \$.085 47.31 4.00 Subtotal Pre-Harvest Harvest Costs Windrow Tops (custom) ac. 5.00 1.0 \$ 5.00 Harvest & haul (custom) ton 2.25 20.0 45.00 Subtotal Harvest Costs Total Variable Costs 5. Fixed Costs: Machinery ac. 4.95 1.0 \$ 4.90 Tractor (1) hr. 1.98 1.02 2.0 Tractor (2) hr. 1.98 1.02 2.0 Intrigation ac. 22.65 1.0 22.6 Land (Net Rent) 1/ ac. 31.88 1.0 31.88 Total Fixed Costs Formal Costs Signar Act Payment ton 2.00 20.0 \$ 40.00	1.	Gross receipts, from production:				
Total		Beets	ton	\$ 9.20	20.0	\$184.00
Pre-Harvest: Seed 1b40 10.0 \$ 4.00 Fertilizer (80-60-0) ac. 7.60 1.0 7.66 Herbicide pt. 3.13 1.5 4.77 Insecticide (custom) ac. 4.00 7.0 28.00 Machinery ac. 2.37 1.0 2.33 Tractor (1) hr. 1.63 1.02 1.66 Tractor (2) hr. 1.41 1.48 2.00 Labor, Tractor & Machinery hr. 2.00 3.12 6.22 Labor, Irrigation hr. 1.75 3.19 5.56 Labor, Hoe and Thin hr. 1.50 9.0 13.56 Irrigation, Machinery ac. 13.89 1.0 13.88 Pickup & Miscellaneous ac. 5.00 1.0 5.00 Interest on Op. Cap. \$.085 47.31 4.02 Subtotal Pre-Harvest Harvest Costs Windrow Tops (custom) ac. 5.00 1.0 \$ 5.00 Harvest & haul (custom) ton 2.25 20.0 45.00 Subtotal Harvest Costs Total Variable Costs Fixed Costs: Machinery ac. 4.95 1.0 \$ 4.96 Tractor (1) hr. 1.98 1.02 2.00 Irrigation ac. 22.65 1.0 22.61 Land (Net Rent) 1/ ac. 31.88 1.0 31.81 Total Fixed Costs Fool Costs: \$ 63.61 Total Costs \$ 70.00 Total Costs \$ 1.65 Total Costs \$ 1.66 Total Costs \$ 1.66 Total Costs \$ 1.67 Total Costs \$ 1.67 Total Costs \$ 1.68 Total Costs \$ 1.68 Total Costs \$ 1.69 Total Costs \$ 1.60 Total Costs		Pasture Tops	ac.	30.00	1.0	30.00
Pre-Harvest: Seed		Total				\$214.00
Seed	2.					
Fertilizer (80-60-0) ac. 7.60 1.0 7.66 Herbicide pt. 3.13 1.5 4.77 Lnsecticide (custom) ac. 4.00 7.0 28.00 Machinery ac. 2.37 1.0 2.37 Tractor (1) hr. 1.63 1.02 1.66 Tractor (2) hr. 1.41 1.48 2.05 Labor, Tractor & Machinery hr. 2.00 3.12 6.24 Labor, Tractor & Machinery hr. 1.75 3.19 5.55 Labor, Hoe and Thin hr. 1.50 9.0 13.50 Irrigation, Machinery ac. 13.89 1.0 13.88 Pickup & Miscellaneous ac. 5.00 1.0 5.00 Interest on Op. Cap. \$.085 47.31 4.02 Subtotal Pre-Harvest Harvest Costs Windrow Tops (custom) ac. 5.00 1.0 \$ 5.00 Harvest & haul (custom) ton 2.25 20.0 45.00 Subtotal Harvest Costs Total Variable Costs \$ \$148.69 Machinery ac. 4.95 1.0 \$ 4.99 Tractor (1) hr. 1.98 1.02 2.00 Tractor (2) hr. 1.46 1.48 2.11 Irrigation ac. 22.65 1.0 22.61 Land (Net Rent) 1/ ac. 31.88 1.0 33.81 Total Fixed Costs \$ \$63.60 Total Costs \$ \$1.60 Net Returns \$ \$ 1.60 Sugar Act Payment ton 2.00 20.0 \$ 40.00						•
Herbicide pt. 3.13 1.5 4.77 Insecticide (custom) ac. 4.00 7.0 28.00 Machinery ac. 2.37 1.0 2.37 Tractor (1) hr. 1.63 1.02 1.66 Tractor (2) hr. 1.41 1.48 2.00 Labor, Tractor & Machinery hr. 2.00 3.12 6.22 Labor, Irrigation hr. 1.75 3.19 5.56 Labor, Hoe and Thin hr. 1.50 9.0 13.56 Irrigation, Machinery ac. 13.89 1.0 13.88 Pickup & Miscellaneous ac. 5.00 1.0 5.00 Interest on Op. Cap. \$.085 47.31 4.00 Subtotal Pre-Harvest Harvest Costs Windrow Tops (custom) ac. 5.00 1.0 \$ 5.00 Harvest & haul (custom) ton 2.25 20.0 45.00 Subtotal Harvest Costs Total Variable Costs Machinery ac. 4.95 1.0 \$ 4.90 Tractor (2) hr. 1.98 1.02 2.00 Tractor (2) hr. 1.46 1.48 2.11 Irrigation ac. 22.65 1.0 22.60 Land (Net Rent) 1/ ac. 31.88 1.0 33.81 Total Fixed Costs Net Returns Sugar Act Payment ton 2.00 20.0 \$ 40.00						
Insecticide (custom) ac. 4.00 7.0 28.00 Machinery ac. 2.37 1.0 2.37 Tractor (1) hr. 1.63 1.02 1.66 Tractor (2) hr. 1.41 1.48 2.09 Labor, Tractor & Machinery hr. 2.00 3.12 6.24 Labor, Irrigation hr. 1.75 3.19 5.56 Labor, Hoe and Thin hr. 1.50 9.0 13.56 Irrigation, Machinery ac. 13.89 1.0 13.89 Pickup & Miscellaneous ac. 5.00 1.0 5.00 Interest on Op. Cap. \$.085 47.31 4.00 Subtotal Pre-Harvest Harvest Costs Windrow Tops (custom) ac. 5.00 1.0 \$ 5.00 Harvest & haul (custom) ton 2.25 20.0 45.00 Subtotal Harvest Costs Total Variable Costs New Machinery ac. 4.95 1.0 \$ 4.90 Tractor (1) hr. 1.98 1.02 2.00 Tractor (2) hr. 1.46 1.48 2.10 Irrigation ac. 22.65 1.0 22.65 Land (Net Rent) 1/ ac. 31.88 1.0 31.88 Total Fixed Costs Not Returns Sugar Act Payment ton 2.00 20.0 \$ 40.00						
Machinery ac. 2.37 1.0 2.37 Tractor (1) hr. 1.63 1.02 1.66 Tractor (2) hr. 1.41 1.48 2.09 Labor, Tractor & Machinery hr. 2.00 3.12 6.22 Labor, Irrigation hr. 1.75 3.19 5.55 Labor, Hoe and Thin hr. 1.50 9.0 13.50 Labor, Hoe and Thin hr. 1.75 3.19 5.50 Labor, Hoe and Thin hr. 1.75 3.19 5.50 Labor, Hoe and Thin hr. 1.50 9.0 13.50 Labor, Hoe and Thin hr. 1.50 9.0 13.50 I Labor, Hoe and Thin hr. 1.0 4.00 9.0 Tall Fixet Costs \$1.0 \$1.0 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 <t< td=""><td></td><td>· · · · · · · · · · · · · · · · · · ·</td><td>-</td><td></td><td></td><td></td></t<>		· · · · · · · · · · · · · · · · · · ·	-			
Tractor (1) hr. 1.63 1.02 1.66 Tractor (2) hr. 1.41 1.48 2.00 Labor, Tractor & Machinery hr. 2.00 3.12 6.22 Labor, Irrigation hr. 1.75 3.19 5.56 Labor, Hoe and Thin hr. 1.50 9.0 13.56 Irrigation, Machinery ac. 13.89 1.0 13.89 Pickup & Miscellaneous ac. 5.00 1.0 5.00 Interest on Op. Cap. \$.085 47.31 4.02 Subtotal Pre-Harvest Harvest Costs Windrow Tops (custom) ac. 5.00 1.0 \$ 5.00 Harvest & haul (custom) ton 2.25 20.0 45.00 Subtotal Harvest Costs Total Variable Costs Machinery ac. 4.95 1.0 \$ 4.95 Tractor (1) hr. 1.98 1.02 2.00 Tractor (2) hr. 1.46 1.48 2.11 Irrigation ac. 22.65 1.0 22.61 Land (Net Rent) 1/2 ac. 31.88 1.0 31.88 Total Fixed Costs Net Returns Sugar Act Payment ton 2.00 20.0 \$ 40.00		•				
Tractor (2) hr. 1.41 1.48 2.09 Labor, Tractor & Machinery hr. 2.00 3.12 6.24 Labor, Irrigation hr. 1.75 3.19 5.56 Labor, Hoe and Thin hr. 1.50 9.0 13.56 Irrigation, Machinery ac. 13.89 1.0 13.89 Pickup & Miscellaneous ac. 5.00 1.0 5.00 Interest on Op. Cap. \$.085 47.31 4.00 Subtotal Pre-Harvest Harvest Costs Windrow Tops (custom) ac. 5.00 1.0 \$ 5.00 Harvest & haul (custom) ton 2.25 20.0 45.00 Subtotal Harvest Costs Total Variable Costs Fixed Costs: Machinery ac. 4.95 1.0 \$ 4.90 Tractor (1) hr. 1.98 1.02 2.00 Tractor (2) hr. 1.46 1.48 2.10 Irrigation ac. 22.65 1.0 22.60 Land (Net Rent) 1/ ac. 31.88 1.0 31.88 Total Fixed Costs Net Returns Sugar Act Payment ton 2.00 20.0 \$ 40.00						
Labor, Tractor & Machinery hr. 2.00 3.12 6.24 Labor, Irrigation hr. 1.75 3.19 5.56 Labor, Hoe and Thin hr. 1.50 9.0 13.50 Irrigation, Machinery ac. 13.89 1.0 13.88 Pickup & Miscellaneous ac. 5.00 1.0 5.00 Interest on Op. Cap. \$.085 47.31 4.02 Subtotal Pre-Harvest Harvest Costs Windrow Tops (custom) ac. 5.00 1.0 \$ 5.00 Harvest & haul (custom) ton 2.25 20.0 45.00 Subtotal Harvest Costs Total Variable Costs Fixed Costs: Machinery ac. 4.95 1.0 \$ 4.92 Tractor (1) hr. 1.98 1.02 2.00 Tractor (2) hr. 1.46 1.48 2.10 Irrigation ac. 22.65 1.0 22.61 Land (Net Rent) 1/2 ac. 31.88 1.0 31.81 Total Fixed Costs Net Returns Sugar Act Payment ton 2.00 20.0 \$ 40.00		• •	_			
Labor, Irrigation hr. 1.75 3.19 5.56 Labor, Hoe and Thin hr. 1.50 9.0 13.56 Irrigation, Machinery ac. 13.89 1.0 13.88 Pickup & Miscellaneous ac. 5.00 1.0 5.00 Interest on Op. Cap. \$.085 47.31 4.02 Subtotal Pre-Harvest						
Labor, Hoe and Thin hr. 1.50 9.0 13.56 Irrigation, Machinery ac. 13.89 1.0 13.86 Pickup & Miscellaneous ac. 5.00 1.0 5.00 Interest on Op. Cap. \$.085 47.31 4.00 Subtotal Pre-Harvest		•				
Irrigation, Machinery ac. 13.89 1.0 13.89 Pickup & Miscellaneous ac. 5.00 1.0 5.00 Interest on Op. Cap. \$.085 47.31 4.00 Subtotal Pre-Harvest \$.085 47.31 4.00 Subtotal Pre-Harvest \$.085 47.31 4.00 \$ 98.65 Harvest Costs Windrow Tops (custom) ac. 5.00 1.0 \$ 5.00 Harvest & haul (custom) ton 2.25 20.0 45.00 Subtotal Harvest Costs \$.000 1.0 \$ 5.00 Total Variable Costs \$.000 \$.000 \$.000 Interest Open		, ,				
Pickup & Miscellaneous ac. 5.00 1.0 5.00 Interest on Op. Cap. \$.085 47.31 4.02 Subtotal Pre-Harvest \$.085 47.31 4.02 Harvest Costs \$.00 1.0 \$ 5.00 Harvest & haul (custom) ton 2.25 20.0 45.00 Subtotal Harvest Costs \$.00 \$.00 \$.00 Total Variable Costs \$.00 \$.00 \$.00 B. Income Above Variable Costs \$.00 \$.00 \$.00 B. Fixed Costs: Ac. 4.95 1.0 \$.00 B. Tractor (1) Ar. 1.46 1.48 2.10 B. Tractor (2) Ar. 1.46 1.48 2.10 B. Tractor (2) Ar. 31.88 1.0 31.81 B. Total Fixed Costs \$.00 \$.00 \$.00 \$.00						
Interest on Op. Cap. Subtotal Pre-Harvest Harvest Costs Windrow Tops (custom) Harvest & haul (custom) Subtotal Harvest Costs Total Variable Costs Hachinery Tractor (1) Tractor (2) Land (Net Rent) 1/ Total Fixed Costs Net Returns Sugar Act Payment Subtotal Pre-Harvest \$.085		_ · · · · · · · · · · · · · · · · · · ·				
Subtotal Pre-Harvest Harvest Costs Windrow Tops (custom) ac. 5.00 1.0 \$ 5.00 Harvest & haul (custom) ton 2.25 20.0 45.00 Subtotal Harvest Costs Total Variable Costs \$148.60 3. Income Above Variable Costs \$65.30 6. Fixed Costs: Machinery ac. 4.95 1.0 \$4.90 Tractor (1) hr. 1.98 1.02 2.00 Tractor (2) hr. 1.46 1.48 2.10 Irrigation ac. 22.65 1.0 22.60 Land (Net Rent) 1/ ac. 31.88 1.0 31.80 Total Fixed Costs \$63.60 5. Total Costs \$212.30 5. Net Returns \$1.60 7. Sugar Act Payment ton 2.00 20.0 \$40.00						
Windrow Tops (custom) ac. 5.00 1.0 \$ 5.00 Harvest & haul (custom) ton 2.25 20.0 45.00 \$ 50.00 \$ 50.00 Total Variable Costs \$ 148.65 3. Income Above Variable Costs \$ 65.35 4. Fixed Costs: ac. 4.95 1.0 \$ 4.95 Tractor (1) hr. 1.98 1.02 2.00 Tractor (2) hr. 1.46 1.48 2.10 Irrigation ac. 22.65 1.0 22.65 Land (Net Rent) 1/ ac. 31.88 1.0 31.88 Total Fixed Costs \$ 63.60 5. Net Returns \$ 1.69 7. Sugar Act Payment ton 2.00 20.0 \$ 40.00			Þ	.085	47.31	\$ 98.65
Harvest & haul (custom) ton 2.25 20.0 45.00 \$50.00 Subtotal Harvest Costs \$148.65 Total Variable Costs \$148.65 Income Above Variable Costs \$65.33 Fixed Costs: Machinery ac. 4.95 1.0 \$4.95 Tractor (1) hr. 1.98 1.02 2.00 Tractor (2) hr. 1.46 1.48 2.16 Irrigation ac. 22.65 1.0 22.65 Land (Net Rent) 1/ ac. 31.88 1.0 31.88 Total Fixed Costs \$63.66 Net Returns \$1.66 Sugar Act Payment ton 2.00 20.0 \$40.00		Harvest Costs				
Subtotal Harvest Costs \$50.00 Total Variable Costs \$148.63 3. Income Above Variable Costs \$65.33 3. Fixed Costs: Machinery ac. 4.95 1.0 \$4.99 Tractor (1) hr. 1.98 1.02 2.00 Tractor (2) hr. 1.46 1.48 2.10 Irrigation ac. 22.65 1.0 22.60 Land (Net Rent) 1/ ac. 31.88 1.0 31.80 Total Fixed Costs \$63.60 5. Total Costs \$212.33 6. Net Returns \$1.69 7. Sugar Act Payment ton 2.00 20.0 \$40.00		Windrow Tops (custom)	ac.	5.00	1.0	\$ 5.00
Total Variable Costs \$148.63 Income Above Variable Costs \$65.39 Fixed Costs: Machinery		Harvest & haul (custom)	ton	2.25	20.0	45.00
### Sugar Act Payment		Subtotal Harvest Costs				\$ 50.00
## Fixed Costs: Machinery		Total Variable Costs				\$148.65
Machinery ac. 4.95 1.0 \$ 4.99 Tractor (1) hr. 1.98 1.02 2.00 Tractor (2) hr. 1.46 1.48 2.16 Irrigation ac. 22.65 1.0 22.60 Land (Net Rent) 1/ ac. 31.88 1.0 31.88 Total Fixed Costs \$ 63.60 5. Net Returns \$ 1.69 7. Sugar Act Payment ton 2.00 \$ 40.00	3.	Income Above Variable Costs				\$ 65.35
Tractor (1) hr. 1.98 1.02 2.00 Tractor (2) hr. 1.46 1.48 2.16 Irrigation ac. 22.65 1.0 22.65 Land (Net Rent) 1/ ac. 31.88 1.0 31.88 Total Fixed Costs \$63.66 Net Returns \$1.69 Sugar Act Payment ton 2.00 20.0 \$40.00	4.	- ·				
Tractor (2) hr. 1.46 1.48 2.16 Irrigation ac. 22.65 1.0 22.65 Land (Net Rent) 1/ ac. 31.88 1.0 31.88 Total Fixed Costs \$63.66 Net Returns \$1.66 Sugar Act Payment ton 2.00 20.0 \$40.06			ac.	4.95	1.0	\$ 4.95
Irrigation ac. 22.65 1.0 22.65 Land (Net Rent) 1/ ac. 31.88 1.0 31.88 Total Fixed Costs \$ 63.60 Total Costs \$ 212.33 Net Returns \$ 1.69 Sugar Act Payment ton 2.00 \$ 40.00						2.02
Land (Net Rent) 1/ ac. 31.88 1.0 31.88 Total Fixed Costs \$63.66 Total Costs \$212.33 Net Returns \$1.69 Sugar Act Payment ton 2.00 20.0 \$40.00			hr.			2.16
Total Fixed Costs \$ 63.66 5. Total Costs \$212.33 6. Net Returns \$ 1.69 7. Sugar Act Payment ton 2.00 20.0 \$ 40.00			ac.		1.0	22.65
\$212.33 5. Net Returns \$ 1.69 7. Sugar Act Payment ton 2.00 20.0 \$ 40.00		Land (Net Rent) $\underline{1}$ /	ac.	31.88	1.0	31.88
\$ 1.69 7. Sugar Act Payment ton 2.00 20.0 \$ 40.00		Total Fixed Costs				\$ 63.60
7. Sugar Act Payment ton 2.00 20.0 \$ 40.00	·	Total Costs				\$212.3
	j.	Net Returns				\$ 1.69
3. Net return including Sugar Act Payment \$ 41.60	7.	Sugar Act Payment	ton	2.00	20.0	\$ 40.00
	3.	Net return including Sugar Act Pa	ayment			\$ 41.69

 $[\]underline{1}$ / \$50/acre less 80% of irrigation fixed costs

New, 1972

Estimated Costs, And Requirements Per Acre Of Sugar Beets, 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
Plow, Bust	1,6,21	Dec	1	.41	.33	.18	.36
Tandem Disc	2,12	Jan	2	.50	.40	.22	.44
Float	2,8	Jan	2	.63	.50	.18	.99
List & Fert	1,11	Jan	1	. 25	.20	.29	.45
Shape, Plant	1,10, 11,19	Feb	1	.41	.33	.73	1.21
Thin	2,22	Mar	1	.25	.20	.17	.52
Cultivate	2,4	Mar- Sept	3	.47	. 38	.37	.51
Cultivate Hoeing & This	nning	June- July	2	<u>9.00</u> *			
TOTALS				12.12	2.50	\$ 2.37	\$ 4.95
Irrigation:	(2)	Feb- Sept	6	3.19		\$13.89	\$22 . 65

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

⁽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.

WHEAT FOR GRAIN, IRRIGATED, HIGH PLAINS II

	Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
. •	Gross receipts from production:				
	Wheat	bu.	\$ 1.30	50.00	\$ 65.00
	Grazing (Gain)	1b.	.18	250.00	45.00
	Total				\$110.00
2.	Variable Costs:				
	Pre-Harvest:				
	Seed	bu.	2.25	1.0	\$ 2.25
	Fertilizer $(150-60-0)$	ac.	10.05	1.0	10.05
	Herbicide	1b.	2.50	.50	1.25
	Insecticide (custom applied)	ac.	2.25	1.0	2.25
	Machinery	ac.	.97	1.0	2.25
	Tractor (1)	hr.	1.48	.89	1.32
	Tractor (2)	hr.	1.28	.61	.78
	Tractor (3)	hr.	.65	.10	.07
	Irrigation Machinery	ac.	8,28	1.0	8.28
	Labor, Tractor & Machinery	hr.	2.00	2.00	4.00
	Labor, Irrigation	hr.	1.75	2.21	3.87
	Pickup & Miscellaneous	ac.	5.00	1.0	5.00
	Hail Insurance	\$100	14.00	.40	5.60
	Interest on Op. Cap.	\$.085	22.85	1.94
	Subtotal, Pre-Harvest	¥	.003	22.03	\$ 47.63
	Harvest Costs:			1 0	A / FO
	Combine (custom)	ac.	4.50	1.0	\$ 4.50
	Hauling Subtotal, Harvest Costs	bu.	.05	50.00	\$ 7.00
	Total Variable Costs				\$ 54.63
3.	Income Above Variable Costs				\$ 55.37
4 .	Fixed Costs:				
	Machinery	ac.	1.92	1.0	\$ 1.92
	Tractor (1)	hr.	1.80	.89	1.60
	Tractor (2)	hr.	1.33	.61	.83
	Tractor (3)	hr.	.72	.10	.0
	Irrigation	ac.	13.50	1.0	13.50
	Land (Net Rent) $\underline{1}$ /	ac.	24.20	1.0	24.20
	Total Fixed Costs				\$ 42.10
5.	Total Costs				\$ 96.73
5.	Net Returns				\$ 13.27
7.	Government Payment (\$1.20/bu x 50	0) <u>2</u> /			\$ 60.00
3.	Net Returns Including Government	Payment			\$ 73.27

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

New. 1972

^{2/} Assume full allotment--no provisions made for set aside DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

WHEAT FOR GRAIN, IRRIGATED, HIGH PLAINS II
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	
Tandem Disc	2,12	June- July	2	.50	.40	\$.20	\$.40	
Oneway	1,5	Aug	1	.31	.25	.16	.38	
Fertilize	3	Aug	1	.13	.10			
Tandem Disc	2,12	Aug	1	.25	.20	.10	.20	
Chisel Sweep	1,7	Aug	1	.20	.16	.07	.10	
List	1,11	Aug	1	.25	.20	.26	.41	
Cultivate	2,4	Aug	1	.16	.13	.11	.15	
Plant	2,14	Aug	1	<u>.20</u>	.16	.07	.28	
TOTALS				2.00	1.60	\$.97	\$ 1.92	
Irrigation:	(2)	Aug- Apr	4	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 acre inches preplant and 4 acre inches at each postplant.

WHEAT FOR GRAIN, IRRIGATED, HIGH PLAINS II

Estimated Cos	ts And Retu	ırns Per Acre	Of Wheat	For Grai	n, Typical	Management

	Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1.	Gross receipts from production:				
	Wheat	bu.	\$ 1.30	37.0	\$ 48.10
	Grazing (Gain)	1b.	.18	200.0	36.00
	Total				\$ 84.10
2.	Variable Costs:				
	Pre-Harvest:				
	Seed	bu.	2.25	1.00	\$ 2.25
	Fertilizer (100-40-0)	ac.	6.70	1.0	6.70
	Herbicide	1b.	2.50	.50	1.25
	Insecticide (custom applied)	ac.	2.25	1.0	2.25
	Machinery	ac.	1.08	1.0	1.08
	Tractor (1)	hr.	1.63	.89	1.45
	Tractor (2)	hr.	1.41	.61	. 86
	Tractor (3)	hr.	.72	.10	.07
	Labor, Tractor & Machinery	hr.	2.00	2.0	4.00
	Labor, Irrigation	hr.	1.75	1.47	2.57
	Pickup & Miscellaneous	ac.	5.00	1.0	5.00
	Hail Insurance	\$100	14.00	.175	2.45
	Interest on Op. Cap.	\$.085	18.50	1.57
	Subtotal, Pre-Harvest				\$ 38.58
	Harvest Costs:				
	Combining (custom)	ac.	4.35	1.0	\$ 4.35
	Hauling (custom)	bu.	.05	37.0	1.85
	Subtotal, Harvest Costs				\$ 6.20
	Total Variable Costs				\$ 44.78
3.	Income Above Variable Costs				\$ 39.32
4.	Fixed Costs:				
	Machinery	ac.	2.12	1.0	\$ 2.12
	Tractor (1)	hr.	1.98	.89	1.76
	Tractor (2)	hr.	1.46	.61	. 89
	Tractor (3)	hr.	.79	.10	.08
	Irrigation	ac.	11.55	1.0	11.55
	Land (Net Rent) $\underline{1}/$	ac.	25.76	1.0	25.76
	Total Fixed Costs				\$ 42.16
5.	Total Costs				\$ 86.95
6.	Net Returns				\$ (2.84
7.	Government Payment (\$1.20/bu x 37	7) <u>2</u> /			\$ 44.40
8.	Net Returns Including Government	_			\$ 41.56

 $[\]underline{1}$ / \$35/acre less 80% of irrigation costs

New, 1972

^{2/} Assume full allotment--no provisions made for set aside DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

WHEAT FOR GRAIN, IRRIGATED, HIGH PLAINS II Estimated Costs, And Requirements Per Acre

Of Wheat For Grain, Typical Management

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor o	Fuel, C	Rep.		i costs Acre
Tandem Disc	2,12	June July	2	.50	.40	\$.22		\$.44
Oneway	1,5	Aug	1	.31	.25	.18			.42
Fertilize	3	Aug	1	.13	.10				
Tandem Disc	2,12	Aug	1	.25	.20	.11			.22
Chisel Sweep	1,7	Aug	1 .	.20	.16	.08			.11
List	1,11	Aug	1	. 25	.20	. 29			.45
Cultivate	2,4	Aug	1	.16	.13	.12			.17
Plant	2,14	Aug	1	. 20	<u>.16</u>	.08	•		.31
TOTALS				2.00	1.60	\$ 1.08		\$:	2.12
Irrigation:	(2)	Aug-A	pr 3	1.47		\$ 7.08		\$1 :	1.55

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

⁽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.

WHEAT FOR GRAIN, DRYLAND, HIGH PLAINS II

Estimated 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	bu.	\$ 1.30	25.0	\$ 32.50
	Grazing	1Ъ.	.18	120.0	21.60
	Total				\$ 54.10
2.	Variable Costs:				
	Pre-Harvest:				
	Seed	1b.	.038	45.0	\$ 1.71
	Fertilizer (30-0-0)	ac.	1.05	1.0	1.05
	Insecticide (custom applied)	ac.	2.25	1.0	2.25
	Machinery	ac.	.38	1.0	.38
	Tractor (1)	hr.	1.48	.68	1.00
	Tractor (2)	hr.	1.28	.16	.21
	Labor, Tractor & Machinery	hr.	2.00	1.05	2.10
	Pickup & Miscellaneous	ac.	2.50	1.0	2.50
	Hail Insurance	\$100	14.00	.115	1.61
	Interest on Op. Cap.	\$.085	4.75	.40
	Subtotal, Pre-Harvest	•	1003	1073	\$ 13.21
	Harvest Costs:				
	Custom Combine	ac.	3.75	1.0	\$ 3.75
	Hauling	bu.	.05	25.0	1.25
	Subtotal, Harvest				\$ 5.00
	Total Variable Costs				\$ 18.21
3.	Income Above Variable Costs				\$ 36.00
	Fixed Costs:				
	Machinery	ac.	.78	1.0	\$.78
	Tractor (1)	hr.	1.80	.68	1.22
	Tractor (2)	hr.	1.33	.16	.21
	Land (Rent) $\underline{1}/$	ac.	18.03	1.0	18.03
	Total Fixed Costs				\$ 20.24
•	Total Costs				\$ 38.45
•	Net Returns				\$ 15.65
	Government payment (\$1.20/bu x 25) <u>2</u> /	•		\$ 30.00

^{2/} Assume full allotment--no provisions made for set aside

WHEAT FOR GRAIN, DRYLAND, HIGH PLAINS II 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
Chisel	1,7	Jun- Aug	3	.60	.48	\$.21	\$.30
Tandem Disc	1,12	Sept	1	. 25	.20	.10	.20
Plant	2,14	Sept	1	.20	.16	.07	.28
TOTALS				1.05	.84	\$.38	\$.78

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

WHEAT FOR GRAIN, DRYLAND, HIGH PLAINS II

Estimated 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	bu.	\$ 1.30	15.00	\$ 19.50
	Grazing	1b.	.18	90.00	16.20
	Total				\$ 35.70
2.	Variable Costs:				
	Pre-Harvest:				
	Seed	1b.	.038	45.00	\$ 1.71
	Machinery	ac.	.42	1.0	.42
	Tractor (1)	hr.	1.63	.85	1.39
	Tractor (2)	hr.	1.41	.20	.28
	Labor, Tractor & Machinery	hr.	2.00	1.05	2.10
	Pickup & Miscellaneous	ac.	2.50	1.0	2.50
	Hail Insurance	\$100	14.00	.085	1.19
	Interest on Op. Cap. Subtotal, Pre-Harvest	\$.085	4.79	\$ 10.00
	Harvest Costs:				
	Custom Combine	ac.	3.50	1.0	\$ 3.50
	Haul	bu.	.05	15.00	75
	Subtotal, Harvest				\$ 4.25
	Total Variable Costs				\$ 14.25
3.	Income Above Variable Costs				\$ 21.45
4.	Fixed Costs:				
	Machinery	ac.	.86	1.0	\$.86
	Tractor (1)	hr.	1.98	. 85	1.68
	Tractor (2)	hr.	1.46	.20	.29
	Land (Rent) $\underline{1}/$	ac.	11.90	1.0	11.90
	Total Fixed Costs				\$ 14.73
5.	Total Costs				\$ 28.98
6.	Net Returns				\$ 6.72
7.	Government Payments (\$1.20/bu. x 1	5) <u>2</u> /			\$ 18.00
8.	Net Returns Including Government				\$ 25.92

^{1/} 1/3 of gross income

²/ Assumes full allotment--provisions made for set aside

WHEAT FOR GRAIN, DRYLAND, HIGH PLAINS II Estimated Costs, And Requirements Per Acre Of Wheat For Grain, Typical Management

			,	- J F				
Operation	Item Date		Times Hours Over (1)		Tractor or Mach. Hrs.	Fuel, 011, Lub., Rep. Per Acre	Fixed costs Per Acre	
			er isme. Sere		130			
Chisel	1,7	Jun- Aug	3	.60	.48	\$.23	\$.33	
Tandem Disc	1,12	Sept	1	. 25	.20	.11	.22	
Plant	2,14	Sept	1	. 20	.16	.08	<u>.31</u>	
TOTALS				1.05	.84	\$.42	\$.86	

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

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

WHEAT FOR GRAZING, IRRIGATED, HIGH PLAINS II

	Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1.	Gross receipts, from production:				
	Gain	1b.	\$.18	580	\$104.40
2.	Variable Costs:				
	Seed	bu.	2.50	1.5	\$ 3.75
	Fertilizer (250-80-0)	ac.	15.10	1.0	15.10
	Machinery	ac.	.97	1.0	.97
	Tractor (1)	hr.	1.48	.61	.90
	Tractor (2)	hr.	1.28	. 89	1.14
	Tractor (3)	hr.	.65	.20	.13
	Labor, Tractor & Machinery	hr.	2.00	2.13	4.26
	Labor, Irrigation	hr.	1.75	2.71	4.74
	Irrigation Machinery	ac.	10.12	1.0	10.12
	Pickup & Miscellaneous	ac.	5.00	1.0	5.00
	Interest on Op. Cap.	\$.085	23.06	1.96
	Total Variable Costs				\$ 48.07
3.	Income Above Variable Costs				\$ 56.33
4.	Fixed Costs:				
	Machinery	ac.	1.92	1.0	1.92
	Tractor (1)	hr.	1.80	.61	1.10
	Tractor (2)	hr.	1.33	.89	1.18
	Tractor (3)	hr.	.72	.20	.14
	Irrigation	ac.	16.50	1.0	16.50
	Land (Net Rent) $\underline{1}/$	ac.	21.80	1.0	21.80
	Total Fixed Costs				\$ 42.64
5.	Total Costs				\$ 90.72
6.	Net Returns				\$ 13.68

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

WHEAT FOR GRAZING, IRRIGATED, HIGH PLAINS II Estimated Costs, And Requirements Per Acre Of

Wheat For Grazing, High Level Management Labor Fuel, Oil, Fixed costs Times Tractor or Item Hours Lub., Rep. Date Operation Per Acre Mach. Hrs. No. 0ver Per Acre (1)Tandem Disc 2,12 June-.20 July 2 .50 .40 .40 1,5 Oneway Aug 1 .31 .25 .16 .38 3 Fertilize Aug 1 .13 .10 Tandem Disc 2,12 Aug 1 . 25 .20 .10 .20 Chisel Sweep 1,7 1 .20 .16 .07 .10 Aug .25 .20 .41 List 1,11 1 . 26 Aug 2,4 1 .16 .13 .11 .15 Cultivate Aug .07 2,14 .20 .16 .28 Plant Aug 1 Fertilize 3 Mar 1 .13 .10 2.13 1.70 .97 \$ 1.92 **TOTALS** Aug-May 5 2.21 \$10.12 \$16.50 Irrigation: (2)

⁽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.

WHEAT FOR GRAZING, IRRIGATED, HIGH PLAINS II

	Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1.	Gross receipts, from production:				
	Gain	1b.	\$.18	460	\$ 82.80
2.	Variable Costs:				
	Seed	bu.	2.50	1.5	\$ 3.75
	Fertilizer (100-40-0)	ac.	6.70	1.0	6.70
	Insecticide (custom)	ac.	2.50	1.0	2.50
	Machinery	ac.	1.08	1.0	1.08
	Tractor (1)	hr.	1.63	.61	.99
	Tractor (2)	hr.	1.41	.89	1.26
	Tractor (3)	hr.	.72	.10	.07
	Labor, Tractor & Machinery	hr.	2.00	2.13	4.26
	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	19.30	1.64
	Total Variable Costs				\$ 40.23
3.	Income Above Variable Costs				\$ 42.57
4.	Fixed Costs:				
	Machinery	ac.	2.12	1.0	\$ 2.12
	Tractor (1)	hr.	1.98	.61	1.21
	Tractor (2)	hr.	1.46	.89	1.30
	Tractor (3)	hr.	.79	.10	.08
	Irrigation	ac.	14.85	1.0	14.85
	Land (Net Rent) $\underline{1}/$	ac.	23.73	1.0	23.73
	Total Fixed Costs				\$ 43.29
5.	Total Costs				\$ 83.52
6.	Net Returns				\$ (.72)

 $[\]underline{1}$ / \$35/acre less 80% of irrigation fixed costs

WHEAT FOR GRAZING, IRRIGATED, HIGH PLAINS II
Estimated Costs, And Requirements Per Acre Of
Wheat 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
Tandem Disc	2,12	June July	2	.50	.40	\$.22	\$.44
Oneway	1,5	Aug	1	.31	. 25	.18	.42
Fertilize	3	Aug	1	.13	.10		
Tandem Disc	2,12	Aug	1	.25	.20	.11	.22
Chisel Sweep	1,7	Aug	1	. 20	.16	.08	.11
List	1,11	Aug	1	.25	.20	. 29	.45
Cultivate	2,4	Aug	1	.16	.13	.12	.17
Plant	2,14	Aug	1	.20	.16	.08	.31
TOTALS				2.13	1.70	\$ 1.08	\$ 2.12
Irrigation:	(2)	Aug-A	pr 4	2.21		\$ 9.11	\$14.85

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

⁽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.

WHEAT FOR GRAZING, DRYLAND, HIGH PLAINS II

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

	Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
L.	Gross receipts, from production:				
	Gain	1b.	\$.18	175.0	\$ 31.50
2.	Variable Costs:				
	Pre-Harvest:				
	Seed	1b.	.038	45.0	\$ 1.71
	Fertilizer (30-0-0)	ac.	1.05	1.0	1.05
	Insecticide (custom applied)	ac.	2.25	1.0	2.25
	Machinery	ac.	.78	1.0	.78
	Tractor (1)	hr.	1.48	.68	1.00
	Tractor (2)	hr.	1.28	.16	.21
	Labor, Tractor & Machinery	hr.	2.00	1.05	2.10
	Pickup & Miscellaneous	ac.	2.50	1.0	2.50
	Interest on Op. Cap.	\$.085	5.80	49
	Total Variable Costs				\$ 12.09
3.	Income Above Variable Costs				\$ 19.41
٠.	Fixed Costs				
	Machinery	ac.	.78	1.0	.78
	Tractor (1)	hr.	1.80	.68	1.22
	Tractor (2)	hr.	1.33	.16	.21
	Land (Rent) $\underline{1}$ /	ac.	10.50	1.0	10.50
	Total Fixed Costs				\$ 12.71
•	Total Costs				\$ 24.80
•	Net Returns				\$ 6.70

WHEAT FOR GRAZING, DRYLAND, HIGH PLAINS II
Estimated Costs, And Requirements Per Acre
Of Wheat For Grazing, High Level Management

				•	0			
Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Lu	el, Oil, b., Rep. er Acre	d costs Acre
Chisel	1,7	Jun-A	ug 3	.60	.48	\$.21	\$.30
Tandem Disc	1,12	Aug	1	. 25	.20		.10	.20
Plant	2,14	Aug	1	.20	.16		.07	.28
TOTALS				1.05	.84	\$.38	\$.78

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

WHEAT FOR GRAZING, DRYLAND, HIGH PLAINS II

Estimated Costs And Returns Per Acre Of Wheat For Grazing, Typical Management Price or Value or Item Unit Quantity Cost Cost/Unit Gross receipts, from production: .18 Gain 1Ъ. 125.0 \$ 22.50 Variable Costs: Pre-Harvest Costs: .038 Seed 45.0 1.71 1b. Machinery .42 ac. 1.0 .42 .68 Tractor (1) hr. 1.63 1.11 Tractor (2) hr. 1.41 .16 .23 2.00 1.05 2.10 Labor, Tractor & Machinery hr. Pickup & Miscellaneous ac. 2.50 1.0 2.50 \$.085 4.16 .35 Interest on Op. Cap. 8.67 Total Variable Costs Income Above Variable Costs \$ 13.83 4. Fixed Costs: 1.0 .86 Machinery .86 ac. 1.98 .68 .59 Tractor (1) hr. .23 1.46 .16 Tractor (2) hr. 1.0 7.50 7.50 Land (Rent) 1/ ac. 9.18 Total Fixed Costs

Total Costs

6. Net Returns

\$ 17.85

4.65

WHEAT FOR GRAZING, DRYLAND, HIGH PLAINS II Estimated Costs, And Requirements Per Acre Of Wheat For Grazing, Typical Management

Operation	Item Date				Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre	
					40	A O O	A A	
Chisel	1,7	Jun-Aug	3	.60	.48	\$.23	\$.33	
Tandem Disc	1,12	Aug	1	.25	.20	.11	.22	
Plant	2,14	Aug	1	.20	.16	.08	<u>.31</u>	
TOTALS				1.05	.84	\$.42	\$.86	

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

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

ANNUAL WINTER PASTURE, IRRIGATED, HIGH PLAINS II

Estimated Costs And Returns Per Acre Of Annual Winter Pasture, High Level Management

Item	Quantity 650	Value or Cost \$117.00
Gain 1b. \$.18 2. Variable Costs: Seed: Rye	650	\$117 00
2. Variable Costs: Seed: Rye	650	\$117 00
Seed: Rye		ATT1.00
Seed: Rye		
Rye		
Vetch	100	\$ 4.50
Fertilizer (150-80-0) ac. 11.65 Machinery ac87 Tractor (1) hr. 1.48 Tractor (2) hr. 1.28 Tractor (3) hr65 Labor, Tractor & Machinery hr. 2.00 Labor, Irrigation hr. 1.75 Irrigation Machinery ac. 12.05 Pickup & Miscellaneous ac. 5.00 Interest on Op. Capital \$.085 Total Variable Costs 4. Fixed Costs: Machinery ac. 1.72 Tractor (1) hr. 1.80 Tractor (2) hr. 1.33	30	6.00
Tractor (1)	1.0	11.65
Tractor (2) Tractor (3) Tractor (4) Tractor (5) Labor, Tractor & Machinery Labor, Irrigation Labor, Ir	1.0	.87
Tractor (3) hr65 Labor, Tractor & Machinery hr. 2.00 Labor, Irrigation hr. 1.75 Irrigation Machinery ac. 12.05 Pickup & Miscellaneous ac. 5.00 Interest on Op. Capital \$.085 Total Variable Costs 4. Fixed Costs: Machinery ac. 1.72 Tractor (1) hr. 1.80 Tractor (2) hr. 1.33	.76	1.13
Labor, Tractor & Machinery hr. 2.00 Labor, Irrigation hr. 1.75 Irrigation Machinery ac. 12.05 Pickup & Miscellaneous ac. 5.00 Interest on Op. Capital \$.085 Total Variable Costs 3. Income Above Variable Costs 4. Fixed Costs: Machinery ac. 1.72 Tractor (1) hr. 1.80 Tractor (2) hr. 1.33	.69	.88
Labor, Irrigation hr. 1.75 Irrigation Machinery ac. 12.05 Pickup & Miscellaneous ac. 5.00 Interest on Op. Capital \$.085 Total Variable Costs 3. Income Above Variable Costs 4. Fixed Costs: Machinery ac. 1.72 Tractor (1) hr. 1.80 Tractor (2) hr. 1.33	.13	.09
Irrigation Machinery ac. 12.05 Pickup & Miscellaneous ac. 5.00 Interest on Op. Capital \$.085 Total Variable Costs 3. Income Above Variable Costs 4. Fixed Costs: Machinery ac. 1.72 Tractor (1) hr. 1.80 Tractor (2) hr. 1.33	1.75	3.50
Pickup & Miscellaneous ac. 5.00 Interest on Op. Capital \$.085 Total Variable Costs 3. Income Above Variable Costs 4. Fixed Costs: Machinery ac. 1.72 Tractor (1) hr. 1.80 Tractor (2) hr. 1.33	2.94	5.15
Interest on Op. Capital \$.085 Total Variable Costs 3. Income Above Variable Costs 4. Fixed Costs: Machinery ac. 1.72 Tractor (1) hr. 1.80 Tractor (2) hr. 1.33	1.0	12.05
Total Variable Costs 3. Income Above Variable Costs 4. Fixed Costs: Machinery ac. 1.72 Tractor (1) hr. 1.80 Tractor (2) hr. 1.33	1.0	5.00
3. Income Above Variable Costs 4. Fixed Costs: Machinery ac. 1.72 Tractor (1) hr. 1.80 Tractor (2) hr. 1.33	25.41	2.16
4. Fixed Costs: Machinery ac. 1.72 Tractor (1) hr. 1.80 Tractor (2) hr. 1.33		\$ 52.98
Machinery ac. 1.72 Tractor (1) hr. 1.80 Tractor (2) hr. 1.33		\$ 64.02
Tractor (1) hr. 1.80 Tractor (2) hr. 1.33		
Tractor (1) hr. 1.80 Tractor (2) hr. 1.33	1.0	\$ 1.72
Tractor (2) hr. 1.33	.76	1.37
Tractor (3) hr72	.69	.92
	.13	.09
Irrigation ac. 19.65	1.0	19.65
Land (Net Rent) $\underline{1}$ / ac. 19.28	1.0	19.29
Total Fixed Costs		\$ 43.03
5. Total Costs		\$ 96.01
6. Net Returns		\$ 20.99

 $[\]underline{1}$ / \$35/acre less 80% of irrigation fixed costs

ANNUAL WINTER PASTURE, IRRIGATED, HIGH PLAINS II Estimated Costs, And Requirements Per Acre Of

Annual Winter 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
Tandem Disc	2,12	July	1	.25	.20	\$.10	\$.20
Oneway	1,5	Aug	1	.31	.25	.16	.38
Tandem Disc	2,12	Aug	1	.25	.20	.10	.20
Chisel (Sweeps)1,7	Aug	1	.20	.16	.07	.10
List & apply Fertilizer	1,11	Aug	1	.25	.20	.26	.41
Cultivate	2,4	Aug	1	.16	.13	.11	.15
Plant (Drill)	2,14	Aug	1	.20	.16	.07	.28
Fertilize	3	Mar	1	.13	<u>.10</u>	•	***************************************
TOTALS				1.75	1.40	\$.87	\$ 1.72
Irrigation: ((2)	Aug-J	iun 6	2.94		\$12.05	\$19.65

⁽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.

ANNUAL WINTER PASTURE, IRRIGATED, HIGH PLAINS II

Estimated Costs And Returns Per Acre Of Annual Winter Pasture, Typical Management

	Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1.	Gross receipts from production:				
	Gain	1b.	\$.18	550.0	\$ 99.00
2.	Variable Costs:				
	Seed:				
	Rye	1b.	.045	100.0	\$ 4.50
	Vetch	1b.	.20	30.0	6.00
	Fertilizer (150-80-0)	ac.	11.65	1.0	11.65
	Machinery	ac.	.97	1.0	.97
	Tractor (1)	hr.	1.63	.76	1.24
	Tractor (2)	hr.	1.41	.86	1.21
	Tractor (3)	hr.	.72	.13	.09
	Labor, Tractor & Machinery	hr.	2.00	1.75	3.50
	Labor, Irrigation	hr.	1.75	1.96	3.43
	Irrigation Machinery	ac.	8.10	1.0	8.10
	Pickup & Miscellaneous	ac.	5.00	1.0	5.00
	Interest on Op. Cap.	\$.08	22.85	1.83
	Total Variable Costs				\$ 47.52
3.	Income Above Variable Costs				\$ 51.48
4.	Fixed Costs:				
	Machinery	ac.	1.90	1.0	\$ 1.90
	Tractor (1)	hr.	1.98	.76	1.51
	Tractor (2)	hr.	1.46	.86	1.26
	Tractor (3)	hr.	.79	.13	.10
	Irrigation	ac.	13.20	1.0	13.20
	Land (Net Rent) $\underline{1}/$	ac.	24.44	1.0	24.44
	Total Fixed Costs				\$ 42.41
5.	Total Costs				\$ 89.93
6.	Net Returns				\$ 9.07

 $[\]underline{1}$ / \$35/acre less 80% of irrigation fixed costs

ANNUAL WINTER PASTURE, IRRIGATED, HIGH PLAINS II Estimated Costs, And Requirements Per Acre Of Annual Winter 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
Tandem Disc	2,12	July	1	. 25	.20	\$.11	\$.22
Oneway	1,5	Aug	1	.31	. 25	.18	.42
Tandem Disc	2,12	Aug	1	. 25	.20	.11	.22
Chisel (Sweeps)	1,7	Aug	1	. 20	.16	.08	.11
List & apply Fertilizer	1,11	Aug	1	.25	.20	. 29	.45
Cultivate	2,4	Aug	1	.16	.13	.12	.17
Plant (Drill)	2,14	Aug	1	.20	.16	.08	.31
Fertilize	3	Mar	1	.13	.10		
TOTALS				1.75	1.40	\$.97	\$ 1.90
					*		
Irrigation: ((2)	Aug-J	Tun 4	1.96		\$ 8.10	\$13.20

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

⁽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.