

SOYBEANS, IRRIGATED, HIGH PLAINS II

Estimated Costs, And Requirements Per Acre Of Soybeans, 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 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 In-corp. 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>	<u>.16</u>	<u>.01</u>	<u>.02</u>
TOTALS				2.93	2.35	\$ 1.59	\$ 3.38

Irrigation:

Preplant (2)	Apr	1	.74		\$ 2.76	\$ 4.50
Postplant (2)	July-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 acre inches preplant and 4 acre inches at each postplant.

SOYBEANS, IRRIGATED, HIGH PLAINS IIEstimated Costs And Returns Per Acre Of Soybeans, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:	bu.	\$ 2.50	35	\$ 87.50
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.	1.76	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	1	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				\$ 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	1	25.76
Total Fixed Costs				\$ 45.52
5. Total Costs				\$ 95.08
6. Net Returns				\$ (8.30)

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

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

New, 1972

Cooperative Extension Work in Agriculture and Home Economics, Texas A&M University and the United States Department of Agriculture cooperating. Distributed in furtherance of the Acts of Congress of May 8, 1914, as amended, and June 30, 1914.
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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	July	1	<u>.20</u>	<u>.16</u>	<u>.01</u>	<u>.02</u>
TOTALS				2.93	2.35	\$ 1.76	\$ 3.76

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

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SUGAR BEETS, IRRIGATED, HIGH PLAINS IIEstimated Costs And Returns Per Acre Of Sugar Beets, High Level Management

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

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

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SUGAR BEETS, IRRIGATED, HIGH PLAINS II

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, Oil, 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 & Thinning		June- July	2	<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.

SUGAR BEETS, IRRIGATED, HIGH PLAINS IIEstimated Costs And Returns Per Acre Of Sugar Beets, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Beets	ton	\$ 9.20	20.0	\$184.00
Pasture Tops	ac.	30.00	1.0	30.00
Total				\$214.00
2. Variable Costs				
Pre-Harvest:				
Seed	lb.	.40	10.0	\$ 4.00
Fertilizer (80-60-0)	ac.	7.60	1.0	7.60
Herbicide	pt.	3.13	1.5	4.70
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	5.58
Labor, Hoe and Thin	hr.	1.50	9.0	13.50
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				\$ 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				\$ 50.00
Total Variable Costs				\$148.65
3. Income Above Variable Costs				\$ 65.35
4. Fixed Costs:				
Machinery	ac.	4.95	1.0	\$ 4.95
Tractor (1)	hr.	1.98	1.02	2.02
Tractor (2)	hr.	1.46	1.48	2.16
Irrigation	ac.	22.65	1.0	22.65
Land (Net Rent) <u>1/</u>	ac.	31.88	1.0	31.88
Total Fixed Costs				\$ 63.66
5. Total Costs				\$212.31
6. Net Returns				\$ 1.69
7. Sugar Act Payment	ton	2.00	20.0	\$ 40.00
8. Net return including Sugar Act Payment				\$ 41.69

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

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SUGAR BEETS, IRRIGATED, HIGH PLAINS II

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 & Thinning		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

(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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WHEAT FOR GRAIN, IRRIGATED, HIGH PLAINS IIEstimated Costs And Return Per Acre Of Wheat For Grain, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts from production:				
Wheat	bu.	\$ 1.30	50.00	\$ 65.00
Grazing (Gain)	lb.	.18	250.00	45.00
Total				<u>\$110.00</u>
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	lb.	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				<u>\$ 47.63</u>
Harvest Costs:				
Combine (custom)	ac.	4.50	1.0	\$ 4.50
Hauling	bu.	.05	50.00	2.50
Subtotal, Harvest Costs				<u>\$ 7.00</u>
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	.81
Tractor (3)	hr.	.72	.10	.07
Irrigation	ac.	13.50	1.0	13.50
Land (Net Rent) <u>1/</u>	ac.	24.20	1.0	<u>24.20</u>
Total Fixed Costs				\$ 42.10
5. Total Costs				\$ 96.73
6. Net Returns				\$ 13.27
7. Government Payment (\$1.20/bu x 50) <u>2/</u>				\$ 60.00
8. Net Returns Including Government Payment				\$ 73.27

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

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

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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>	<u>.16</u>	<u>.07</u>	<u>.28</u>
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 IIEstimated 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:				
Wheat	bu.	\$ 1.30	37.0	\$ 48.10
Grazing (Gain)	lb.	.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	lb.	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) <u>1/</u>	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) <u>2/</u>				\$ 44.40
8. Net Returns Including Government Payment				\$ 41.56

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

2/ Assume full allotment--no provisions made for set aside
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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 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	<u>.20</u>	<u>.16</u>	<u>.08</u>	<u>.31</u>
TOTALS				2.00	1.60	\$ 1.08	\$ 2.12
Irrigation: (2)		Aug-Apr 3		1.47		\$ 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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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	lb.	.18	120.0	<u>21.60</u>
Total				\$ 54.10
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	.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	<u>.40</u>
Subtotal, Pre-Harvest				\$ 13.21
Harvest Costs:				
Custom Combine	ac.	3.75	1.0	\$ 3.75
Hauling	bu.	.05	25.0	<u>1.25</u>
Subtotal, Harvest				\$ 5.00
Total Variable Costs				\$ 18.21
3. Income Above Variable Costs				\$ 36.00
4. 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) <u>1/</u>	ac.	18.03	1.0	<u>18.03</u>
Total Fixed Costs				\$ 20.24
5. Total Costs				\$ 38.45
6. Net Returns				\$ 15.65
7. Government payment (\$1.20/bu x 25) <u>2/</u>				\$ 30.00
8. Net Returns Including Government Payment				\$ 45.65
<u>1/</u> 1/3 of gross income				
<u>2/</u> 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	<u>.20</u>	<u>.16</u>	<u>.07</u>	<u>.28</u>
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 IIEstimated 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	lb.	.18	90.00	<u>16.20</u>
Total				\$ 35.70
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	.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.	\$	.085	4.79	<u>.41</u>
Subtotal, Pre-Harvest				\$ 10.00
Harvest Costs:				
Custom Combine	ac.	3.50	1.0	\$ 3.50
Haul	bu.	.05	15.00	<u>.75</u>
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) <u>1/</u>	ac.	11.90	1.0	<u>11.90</u>
Total Fixed Costs				\$ 14.73
5. Total Costs				\$ 28.98
6. Net Returns				\$ 6.72
7. Government Payments (\$1.20/bu. x 15) <u>2/</u>				\$ 18.00
8. Net Returns Including Government				\$ 25.92

1/ 1/3 of gross income2/ 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

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	\$.23	\$.33
Tandem Disc	1,12	Sept	1	.25	.20	.11	.22
Plant	2,14	Sept	1	<u>.20</u>	<u>.16</u>	<u>.08</u>	<u>.31</u>
TOTALS				1.05	.84	\$.42	\$.86

(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.

WHEAT FOR GRAZING, IRRIGATED, HIGH PLAINS IIEstimated Costs And Returns Per Acre Of Wheat For Grazing, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Gain	lb.	\$.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	<u>1.96</u>
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) <u>1/</u>	ac.	21.80	1.0	<u>21.80</u>
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

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	.20	.16	.07	.28
Fertilize	3	Mar	1	<u>.13</u>	<u>.10</u>	—	—
TOTALS				2.13	1.70	\$.97	\$ 1.92
Irrigation: (2)		Aug-May 5		2.21		\$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.

WHEAT FOR GRAZING, IRRIGATED, HIGH PLAINS IIEstimated Costs And Returns Per Acre Of Wheat For Grazing, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Gain	lb.	\$.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	<u>1.64</u>
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) <u>1/</u>	ac.	23.73	1.0	<u>23.73</u>
Total Fixed Costs				\$ 43.29
5. Total Costs				\$ 83.52
6. Net Returns				\$ (.72)

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	<u>.20</u>	<u>.16</u>	<u>.08</u>	<u>.31</u>
TOTALS				2.13	1.70	\$ 1.08	\$ 2.12
Irrigation: (2)		Aug-Apr 4		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 at 1.1 times the cost for high level manager due to reduced efficiency and increased repair cost.

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WHEAT FOR GRAZING, DRYLAND, HIGH PLAINS IIEstimated Costs And Returns Per Acre Of Wheat For Grazing, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Gain	lb.	\$.18	175.0	\$ 31.50
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	.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
4. 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) <u>1/</u>	ac.	10.50	1.0	10.50
Total Fixed Costs				\$ 12.71
5. Total Costs				\$ 24.80
6. Net Returns				\$ 6.70

1/ 1/3 of gross income

WHEAT FOR GRAZING, DRYLAND, HIGH PLAINS II
 Estimated Costs, And Requirements Per Acre
 Of Wheat 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
Chisel	1,7	Jun-Aug	3	.60	.48	\$.21	\$.30
Tandem Disc	1,12	Aug	1	.25	.20	.10	.20
Plant	2,14	Aug	1	<u>.20</u>	<u>.16</u>	<u>.07</u>	<u>.28</u>
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 IIEstimated Costs And Returns Per Acre Of Wheat For Grazing, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Gain	lb.	\$.18	125.0	\$ 22.50
2. Variable Costs:				
Pre-Harvest Costs:				
Seed	lb.	.038	45.0	\$ 1.71
Machinery	ac.	.42	1.0	.42
Tractor (1)	hr.	1.63	.68	1.11
Tractor (2)	hr.	1.41	.16	.23
Labor, Tractor & Machinery	hr.	2.00	1.05	2.10
Pickup & Miscellaneous	ac.	2.50	1.0	2.50
Interest on Op. Cap.	\$	.085	4.16	<u>.35</u>
Total Variable Costs				\$ 8.67
3. Income Above Variable Costs				\$ 13.83
4. Fixed Costs:				
Machinery	ac.	.86	1.0	\$.86
Tractor (1)	hr.	1.98	.68	.59
Tractor (2)	hr.	1.46	.16	.23
Land (Rent) <u>1/</u>	ac.	7.50	1.0	<u>7.50</u>
Total Fixed Costs				\$ 9.18
5. Total Costs				\$ 17.85
6. Net Returns				\$ 4.65

1/ 1/3 of gross income

WHEAT FOR GRAZING, DRYLAND, 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
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	<u>.20</u>	<u>.16</u>	<u>.08</u>	<u>.31</u>
TOTALS				1.05	.84	\$.42	\$.86

(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.

ANNUAL WINTER PASTURE, IRRIGATED, HIGH PLAINS II

Estimated Costs And Returns Per Acre Of Annual Winter Pasture, High Level 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:				
Seed:				
Rye	lb.	.045	100	\$ 4.50
Vetch	lb.	.20	30	6.00
Fertilizer (150-80-0)	ac.	11.65	1.0	11.65
Machinery	ac.	.87	1.0	.87
Tractor (1)	hr.	1.48	.76	1.13
Tractor (2)	hr.	1.28	.69	.88
Tractor (3)	hr.	.65	.13	.09
Labor, Tractor & Machinery	hr.	2.00	1.75	3.50
Labor, Irrigation	hr.	1.75	2.94	5.15
Irrigation Machinery	ac.	12.05	1.0	12.05
Pickup & Miscellaneous	ac.	5.00	1.0	5.00
Interest on Op. Capital	\$	.085	25.41	<u>2.16</u>
Total Variable Costs				\$ 52.98
3. Income Above Variable Costs				\$ 64.02
4. Fixed Costs:				
Machinery	ac.	1.72	1.0	\$ 1.72
Tractor (1)	hr.	1.80	.76	1.37
Tractor (2)	hr.	1.33	.69	.92
Tractor (3)	hr.	.72	.13	.09
Irrigation	ac.	19.65	1.0	19.65
Land (Net Rent) <u>1/</u>	ac.	19.28	1.0	<u>19.29</u>
Total Fixed Costs				\$ 43.03
5. Total Costs				\$ 96.01
6. Net Returns				\$ 20.99

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	<u>.13</u>	<u>.10</u>	—	—
TOTALS				1.75	1.40	\$.87	\$ 1.72
Irrigation: (2)		Aug-Jun 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	lb.	\$.18	550.0	\$ 99.00
2. Variable Costs:				
Seed:				
Rye	lb.	.045	100.0	\$ 4.50
Vetch	lb.	.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	<u>1.83</u>
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) <u>1/</u>	ac.	24.44	1.0	<u>24.44</u>
Total Fixed Costs				\$ 42.41
5. Total Costs				\$ 89.93
6. Net Returns				\$ 9.07

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	<u>.13</u>	<u>.10</u>	—	—
TOTALS				1.75	1.40	\$.97	\$ 1.90
Irrigation: (2)		Aug-Jun 4		1.96		\$ 8.10	\$13.20

(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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