

AgriProfit\$

**Cost and Return Profiles for
Selected Crops, 2003
*Dark Brown Soil Zone***

July, 2005

Alberta
AGRICULTURE, FOOD AND
RURAL DEVELOPMENT



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OVERVIEW

2003 Dark Brown Soil Zone

The AgriProfit\$ Cost and Return study is a provincial overview of costs and returns for various annual field crops and forages grown throughout the province. Participating farmers are surveyed throughout the winter and the Alberta Agriculture Economics Unit compiles all the information into this summary package. This detailed and world-class database is used for extension and research purposes.

In this package you will find a brief summary of various field crops and forages grown in the dark brown soil zone. Where numbers warrant, there are two levels of analysis – the group average and the top third. The top third analysis is based on the top third of fields that have the highest return to equity.

The map on the upper right illustrates the Dark Brown Soil Zone area of Alberta. Please note that farms highlighted within this zone may contain characteristics of neighbouring soil zones, however, this is the grouping method used for this study.

The map on the lower right highlights the locations of participating farmers for the 2003 survey season.

For questions regarding this document please contact:

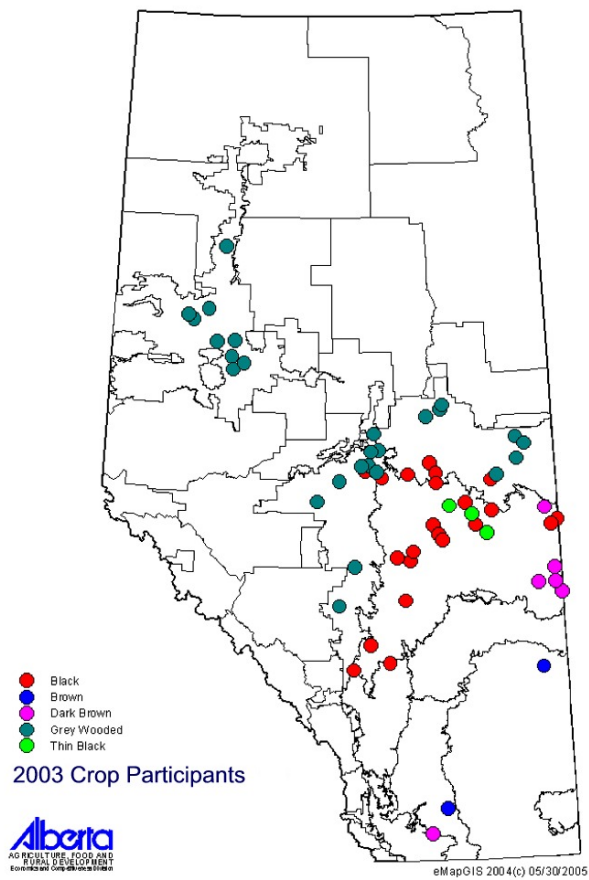
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2003 Crop Enterprise Analysis

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Crop: **Spring Wheat - All**
 Soil Zone: **Dark Brown - Dryland**
 Unit: **Bushel**

		-----\$/Acre-----		----\$/Bushel----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	112.33	--	4.39	--
	2. Crop Insurance Receipts	7.69	--	0.30	--
	3. Other Receipts	4.11	--	0.16	--
	Gross Receipts	124.12	0.00	4.86	0.00
(B)	Cost Items				
	1. Seed	14.60	--	0.57	--
	2. Fertilizer	22.73	--	0.89	--
	3. Chemical	28.48	--	1.11	--
	4. Hail/Crop Insurance Premium	5.14	--	0.20	--
	5. Trucking and Marketing	1.56	--	0.06	--
	6. Fuel	8.92	--	0.35	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	10.10	--	0.40	--
	9. Repairs - Buildings	1.69	--	0.07	--
	10. Utilities and Miscellaneous	12.40	--	0.48	--
	11. Custom Work	4.87	--	0.19	--
	12. Operating Interest Paid	0.93	--	0.04	--
	13. Paid Labour	6.51	--	0.25	--
	14. Unpaid Labour	13.81	--	0.54	--
	Variable Costs	131.73	0.00	5.15	0.00
(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	5.64	--	0.22	--
	3. Equipment and Building: a) Depreciation	17.34	--	0.68	--
	b) Lease Payments	1.33	--	0.05	--
	4. Paid Capital Interest	6.94	--	0.27	--
	Capital Costs	31.26	0.00	1.22	0.00
(D)	Cash Costs	(B+C-B14-C3a)	--	5.16	--
(E)	Total Production Costs	(B+C)	--	6.38	--
	Gross Margin	(A-D)	--	(0.30)	--
	Return to Unpaid Labour	(A-E+B14)	--	(0.98)	--
	Return to Investment	(A-E+C4)	--	(1.25)	--
	Return to Equity	(A-E)	--	(1.52)	--

Investment

Buildings	57.05	--
Machinery	162.80	--
Irrigation Machinery	0.00	--
Total (incl. Land)	968.92	--

Management

Average Yield	(Bushel/acre)	25.56	--
Expected Market Price	(\$/Bushel)	4.39	--

2003 Crop Enterprise Analysis

AgriProfit\$

Crop: **Spring Wheat - Own**
 Soil Zone: **Dark Brown - Dryland**
 Unit: **Bushel**

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	111.55	--	4.36	--
	2. Crop Insurance Receipts	8.16	--	0.32	--
	3. Other Receipts	3.68	--	0.14	--
	Gross Receipts	123.39	0.00	4.82	0.00
(B)	Cost Items				
	1. Seed	14.44	--	0.56	--
	2. Fertilizer	21.36	--	0.83	--
	3. Chemical	29.16	--	1.14	--
	4. Hail/Crop Insurance Premium	5.46	--	0.21	--
	5. Trucking and Marketing	1.66	--	0.06	--
	6. Fuel	8.80	--	0.34	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	10.39	--	0.41	--
	9. Repairs - Buildings	1.43	--	0.06	--
	10. Utilities and Miscellaneous	12.24	--	0.48	--
	11. Custom Work	4.50	--	0.18	--
	12. Operating Interest Paid	0.77	--	0.03	--
	13. Paid Labour	6.30	--	0.25	--
	14. Unpaid Labour	14.31	--	0.56	--
	Variable Costs	130.82	0.00	5.11	0.00
(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	5.77	--	0.23	--
	3. Equipment and Building: a) Depreciation	17.18	--	0.67	--
	b) Lease Payments	1.33	--	0.05	--
	4. Paid Capital Interest	7.04	--	0.28	--
	Capital Costs	31.33	0.00	1.22	0.00
(D)	Cash Costs	(B+C-B14-C3a)	--	5.10	--
(E)	Total Production Costs	(B+C)	--	6.33	--
	Gross Margin	(A-D)	--	(0.28)	--
	Return to Unpaid Labour	(A-E+B14)	--	(0.95)	--
	Return to Investment	(A-E+C4)	--	(1.24)	--
	Return to Equity	(A-E)	--	(1.51)	--

Investment

Buildings	58.02	--
Machinery	159.68	--
Irrigation Machinery	0.00	--
Total (incl. Land)	1012.61	--

Management

Average Yield	(Bushel/acre)	25.60	--
Expected Market Price	(\$/Bushel)	4.36	--

2003 Crop Enterprise Analysis

AgriProfit\$

Crop: *Malt Barley - All*
 Soil Zone: *Dark Brown - Dryland*
 Unit: *Bushel*

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	80.39	--	2.38	--
	2. Crop Insurance Receipts	11.57	--	0.34	--
	3. Other Receipts	15.76	--	0.47	--
Gross Receipts		107.73	0.00	3.19	0.00
(B)	Cost Items				
	1. Seed	8.69	--	0.26	--
	2. Fertilizer	10.14	--	0.30	--
	3. Chemical	11.15	--	0.33	--
	4. Hail/Crop Insurance Premium	8.99	--	0.27	--
	5. Trucking and Marketing	0.00	--	0.00	--
	6. Fuel	10.86	--	0.32	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	8.48	--	0.25	--
	9. Repairs - Buildings	1.06	--	0.03	--
	10. Utilities and Miscellaneous	8.64	--	0.26	--
	11. Custom Work	26.07	--	0.77	--
	12. Operating Interest Paid	0.05	--	0.00	--
	13. Paid Labour	0.00	--	0.00	--
	14. Unpaid Labour	4.91	--	0.15	--
Variable Costs		99.04	0.00	2.94	0.00
(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	2.08	--	0.06	--
	3. Equipment and Building: a) Depreciation	12.77	--	0.38	--
	b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	8.06	--	0.24	--
Capital Costs		22.91	0.00	0.68	0.00
(D)	Cash Costs	104.27	--	3.09	--
(E)	Total Production Costs	121.95	--	3.61	--
	Gross Margin	3.46	--	0.10	--
	Return to Unpaid Labour	(9.31)	--	(0.28)	--
	Return to Investment	(6.17)	--	(0.18)	--
	Return to Equity	(14.22)	--	(0.42)	--

Investment

Buildings	69.05	--
Machinery	100.49	--
Irrigation Machinery	0.00	--
Total (incl. Land)	831.84	--

Management

Average Yield	(Bushel/acre)	33.74	--
Expected Market Price	(\$/Bushel)	2.38	--

2003 Crop Enterprise Analysis

AgriProfit\$

Crop: *Feed Barley - All*
Soil Zone: *Dark Brown - Dryland*
Unit: *Bushel*

		-----\$/Acre-----		-----\$/Bushel-----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	162.12	--	2.98	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	7.31	--	0.13	--
Gross Receipts		169.43	0.00	3.12	0.00
(B)	Cost Items				
	1. Seed	7.34	--	0.14	--
	2. Fertilizer	34.61	--	0.64	--
	3. Chemical	23.55	--	0.43	--
	4. Hail/Crop Insurance Premium	0.88	--	0.02	--
	5. Trucking and Marketing	0.00	--	0.00	--
	6. Fuel	7.67	--	0.14	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	5.59	--	0.10	--
	9. Repairs - Buildings	1.76	--	0.03	--
	10. Utilities and Miscellaneous	9.86	--	0.18	--
	11. Custom Work	6.74	--	0.12	--
	12. Operating Interest Paid	0.36	--	0.01	--
	13. Paid Labour	6.59	--	0.12	--
	14. Unpaid Labour	4.43	--	0.08	--
Variable Costs		109.39	0.00	2.01	0.00
(C)	1. Cash/ Share Land Rent	19.73	--	0.36	--
	2. Taxes, Water Rates, License & Ins.	4.65	--	0.09	--
	3. Equipment and Building: a) Depreciation	25.21	--	0.46	--
	b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	6.07	--	0.11	--
Capital Costs		55.67	0.00	1.02	0.00
(D)	Cash Costs	(B+C-B14-C3a)	135.41	--	2.49
(E)	Total Production Costs	(B+C)	165.06	--	3.03
	Gross Margin	(A-D)	34.02	--	0.63
	Return to Unpaid Labour	(A-E+B14)	8.81	--	0.16
	Return to Investment	(A-E+C4)	10.45	--	0.19
	Return to Equity	(A-E)	4.38	--	0.08

Investment

Buildings	63.69	--
Machinery	241.22	--
Irrigation Machinery	0.00	--
Total (incl. Land)	813.98	--

Management

Average Yield	(Bushel/acre)	54.39	--
Expected Market Price	(\$/Bushel)	2.98	--

2003 Crop Enterprise Analysis

AgriProfit\$

Crop: *Feed Barley - Own*
 Soil Zone: *Dark Brown - Dryland*
 Unit: *Bushel*

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	153.97	--	2.87	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	10.52	--	0.20	--
	Gross Receipts	164.48	0.00	3.07	0.00
(B)	Cost Items				
	1. Seed	8.05	--	0.15	--
	2. Fertilizer	33.31	--	0.62	--
	3. Chemical	21.31	--	0.40	--
	4. Hail/Crop Insurance Premium	1.47	--	0.03	--
	5. Trucking and Marketing	0.00	--	0.00	--
	6. Fuel	7.47	--	0.14	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	5.18	--	0.10	--
	9. Repairs - Buildings	1.42	--	0.03	--
	10. Utilities and Miscellaneous	8.49	--	0.16	--
	11. Custom Work	5.80	--	0.11	--
	12. Operating Interest Paid	0.38	--	0.01	--
	13. Paid Labour	5.30	--	0.10	--
	14. Unpaid Labour	5.30	--	0.10	--
	Variable Costs	103.48	0.00	1.93	0.00
(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	5.96	--	0.11	--
	3. Equipment and Building:				
	a) Depreciation	26.37	--	0.49	--
b) Lease Payments	0.00	--	0.00	--	
4. Paid Capital Interest	5.03	--	0.09	--	
	Capital Costs	37.36	0.00	0.70	0.00
(D)	Cash Costs	(B+C-B14-C3a)	109.17	--	2.03
(E)	Total Production Costs	(B+C)	140.84	--	2.63
	Gross Margin	(A-D)	55.31	--	1.03
	Return to Unpaid Labour	(A-E+B14)	28.94	--	0.54
	Return to Investment	(A-E+C4)	28.67	--	0.53
	Return to Equity	(A-E)	23.64	--	0.44

Investment

Buildings	69.59	--
Machinery	249.74	--
Irrigation Machinery	0.00	--
Total (incl. Land)	1170.36	--

Management

Average Yield	(Bushel/acre)	53.65	--
Expected Market Price	(\$/Bushel)	2.87	--

2003 Crop Enterprise Analysis

AgriProfit\$

Crop: *Oats - All*
 Soil Zone: *Dark Brown - Dryland*
 Unit: *Bushel*

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	92.93	--	1.58	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	17.34	--	0.29	--
Gross Receipts		110.27	0.00	1.87	0.00
(B)	Cost Items				
	1. Seed	9.70	--	0.16	--
	2. Fertilizer	21.13	--	0.36	--
	3. Chemical	7.23	--	0.12	--
	4. Hail/Crop Insurance Premium	8.90	--	0.15	--
	5. Trucking and Marketing	0.00	--	0.00	--
	6. Fuel	7.30	--	0.12	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	6.23	--	0.11	--
	9. Repairs - Buildings	0.47	--	0.01	--
	10. Utilities and Miscellaneous	6.83	--	0.12	--
	11. Custom Work	12.36	--	0.21	--
	12. Operating Interest Paid	0.07	--	0.00	--
	13. Paid Labour	0.00	--	0.00	--
	14. Unpaid Labour	7.79	--	0.13	--
Variable Costs		88.02	0.00	1.50	0.00
(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	5.69	--	0.10	--
	3. Equipment and Building: a) Depreciation	35.66	--	0.61	--
	b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	6.41	--	0.11	--
Capital Costs		47.76	0.00	0.81	0.00
(D)	Cash Costs (B+C-B14-C3a)	92.32	--	1.57	--
(E)	Total Production Costs (B+C)	135.77	--	2.31	--
	Gross Margin (A-D)	17.95	--	0.31	--
	Return to Unpaid Labour (A-E+B14)	(17.71)	--	(0.30)	--
	Return to Investment (A-E+C4)	(19.10)	--	(0.32)	--
	Return to Equity (A-E)	(25.51)	--	(0.43)	--

Investment

Buildings	124.75	--
Machinery	330.44	--
Irrigation Machinery	0.00	--
Total (incl. Land)	1070.19	--

Management

Average Yield	(Bushel/acre)	58.84	--
Expected Market Price	(\$/Bushel)	1.58	--

2003 Crop Enterprise Analysis

AgriProfit\$

Crop: *Roundup Ready Canola - All*
Soil Zone: *Dark Brown - Dryland*
Unit: *Bushel*

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	229.17	--	8.30	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	6.45	--	0.23	--
Gross Receipts		235.63	0.00	8.53	0.00
(B)	Cost Items				
	1. Seed	22.14	--	0.80	--
	2. Fertilizer	28.65	--	1.04	--
	3. Chemical	20.07	--	0.73	--
	4. Hail/Crop Insurance Premium	5.53	--	0.20	--
	5. Trucking and Marketing	0.00	--	0.00	--
	6. Fuel	9.33	--	0.34	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	6.35	--	0.23	--
	9. Repairs - Buildings	1.19	--	0.04	--
	10. Utilities and Miscellaneous	7.83	--	0.28	--
	11. Custom Work	13.06	--	0.47	--
	12. Operating Interest Paid	0.26	--	0.01	--
	13. Paid Labour	2.49	--	0.09	--
	14. Unpaid Labour	4.69	--	0.17	--
Variable Costs		121.60	0.00	4.40	0.00
(C)	1. Cash/ Share Land Rent	20.85	--	0.75	--
	2. Taxes, Water Rates, License & Ins.	2.35	--	0.09	--
	3. Equipment and Building: a) Depreciation	16.41	--	0.59	--
	b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	4.79	--	0.17	--
Capital Costs		44.41	0.00	1.61	0.00
(D)	Cash Costs (B+C-B14-C3a)	144.91	--	5.25	--
(E)	Total Production Costs (B+C)	166.01	--	6.01	--
	Gross Margin (A-D)	90.72	--	3.28	--
	Return to Unpaid Labour (A-E+B14)	74.31	--	2.69	--
	Return to Investment (A-E+C4)	74.41	--	2.69	--
	Return to Equity (A-E)	69.62	--	2.52	--

Investment

Buildings	59.02	--
Machinery	143.32	--
Irrigation Machinery	0.00	--
Total (incl. Land)	639.20	--

Management

Average Yield	(Bushel/acre)	27.63	--
Expected Market Price	(\$/Bushel)	8.30	--

2003 Crop Enterprise Analysis

AgriProfit\$

Crop: *Roundup Ready Canola - Own*
 Soil Zone: *Dark Brown - Dryland*
 Unit: *Bushel*

		-----\$/Acre-----		-----\$/Bushel-----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	275.72	--	8.44	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	1.49	--	0.05	--
Gross Receipts		277.21	0.00	8.49	0.00
(B)	Cost Items				
	1. Seed	21.60	--	0.66	--
	2. Fertilizer	19.45	--	0.60	--
	3. Chemical	14.98	--	0.46	--
	4. Hail/Crop Insurance Premium	7.66	--	0.23	--
	5. Trucking and Marketing	0.00	--	0.00	--
	6. Fuel	10.09	--	0.31	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	7.30	--	0.22	--
	9. Repairs - Buildings	1.32	--	0.04	--
	10. Utilities and Miscellaneous	9.28	--	0.28	--
	11. Custom Work	14.60	--	0.45	--
	12. Operating Interest Paid	0.06	--	0.00	--
	13. Paid Labour	1.63	--	0.05	--
	14. Unpaid Labour	3.23	--	0.10	--
Variable Costs		111.20	0.00	3.40	0.00
(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	2.74	--	0.08	--
	3. Equipment and Building: a) Depreciation	13.83	--	0.42	--
	b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	5.76	--	0.18	--
Capital Costs		22.33	0.00	0.68	0.00
(D)	Cash Costs	(B+C-B14-C3a)	116.47	--	3.57
(E)	Total Production Costs	(B+C)	133.53	--	4.09
	Gross Margin	(A-D)	160.74	--	4.92
	Return to Unpaid Labour	(A-E+B14)	146.91	--	4.50
	Return to Investment	(A-E+C4)	149.44	--	4.58
	Return to Equity	(A-E)	143.68	--	4.40

Investment

Buildings	64.11	--
Machinery	116.02	--
Irrigation Machinery	0.00	--
Total (incl. Land)	916.12	--

Management

Average Yield	(Bushel/acre)	32.66	--
Expected Market Price	(\$/Bushel)	8.44	--

2003 Crop Enterprise Analysis

AgriProfit\$

Crop: Oats Silage - All
Soil Zone: Dark Brown - Dryland
Unit: Tonne

		-----\$/Acre-----		----\$/Tonne----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	152.10	--	30.63	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	0.00	--	0.00	--
	Gross Receipts	152.10	0.00	30.63	0.00
(B) Cost Items					
	1. Seed	8.59	--	1.73	--
	2. Fertilizer	29.05	--	5.85	--
	3. Chemical	9.59	--	1.93	--
	4. Hail/Crop Insurance Premium	6.78	--	1.36	--
	5. Trucking and Marketing	0.00	--	0.00	--
	6. Fuel	7.13	--	1.44	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	1.81	--	0.36	--
	9. Repairs - Buildings	0.00	--	0.00	--
	10. Utilities and Miscellaneous	6.01	--	1.21	--
	11. Custom Work	3.70	--	0.75	--
	12. Operating Interest Paid	0.42	--	0.08	--
	13. Paid Labour	0.00	--	0.00	--
	14. Unpaid Labour	7.28	--	1.47	--
	Variable Costs	80.35	0.00	16.18	0.00
(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	4.97	--	1.00	--
	3. Equipment and Building: a) Depreciation	52.99	--	10.67	--
	b) Lease Payments	0.00	--	0.00	--
4. Paid Capital Interest	0.35	--	0.07	--	
	Capital Costs	58.31	0.00	11.74	0.00
(D)	Cash Costs	78.40	--	15.79	--
(E)	Total Production Costs	138.66	--	27.92	--
	Gross Margin	73.71	--	14.84	--
	Return to Unpaid Labour	20.72	--	4.17	--
	Return to Investment	13.79	--	2.78	--
	Return to Equity	13.44	--	2.71	--

Investment

Buildings	104.09	--
Machinery	502.75	--
Irrigation Machinery	0.00	--
Total (incl. Land)	1105.20	--

Management

Average Yield	(Tonne/acre)	4.97	--
Expected Market Price	(\$/Tonne)	30.63	--

2003 Crop Enterprise Analysis

Crop: **Summerfallow - All**
 Soil Zone: **Dark Brown - Dryland**
 Unit: **0**

		----- \$/Acre -----	
		Average	Top 1/3
(A)	1. Crop Sales	0.00	--
	2. Crop Insurance Receipts	0.00	--
	3. Other Receipts	4.64	--
Gross Receipts		4.64	0.00
(B)	Cost Items		
	1. Seed	0.00	--
	2. Fertilizer	0.00	--
	3. Chemical	1.19	--
	4. Hail/Crop Insurance Premium	0.00	--
	5. Trucking and Marketing	2.46	--
	6. Fuel	7.13	--
	7. Irrigation Fuel and Electricity	0.00	--
	8. Repairs - Machinery	13.57	--
	9. Repairs - Buildings	0.53	--
	10. Utilities and Miscellaneous	3.73	--
	11. Custom Work	0.00	--
	12. Operating Interest Paid	0.94	--
	13. Paid Labour	0.93	--
	14. Unpaid Labour	7.28	--
Variable Costs		37.76	0.00
(C)	1. Cash/ Share Land Rent	0.00	--
	2. Taxes, Water Rates, License & Ins.	4.92	--
	3. Equipment and Building: a) Depreciation	13.00	--
	b) Lease Payments	1.98	--
	4. Paid Capital Interest	12.05	--
Capital Costs		31.96	0.00
(D)	Cash Costs (B+C-B14-C3a)	49.44	--
(E)	Total Production Costs (B+C)	69.72	--
	Gross Margin (A-D)	(44.80)	--
	Return to Unpaid Labour (A-E+B14)	(57.80)	--
	Return to Investment (A-E+C4)	(53.03)	--
	Return to Equity (A-E)	(65.08)	--

Investment

Buildings		73.63	--
Machinery		105.42	--
Irrigation Machinery		0.00	--
Total (incl. Land)		749.52	--

Management

Average Yield	(/acre)	0.00	--
Expected Market Price	(\$/)	0.00	--

DEFINITIONS AND ALLOCATIONS

I INCOME

- A Imputed Value of Production** – total of estimated yields/acre X estimated final prices
- B Crop Insurance Receipts** – added regardless of when payment is received
- C Miscellaneous Receipts** – such as patronage dividends or input rebates
- D Government Program Receipts** – allocated to all cropped acres equally
- E Straw/Aftermath Grazing Revenue** – value of straw + imputed value of grazing

II EXPENSES

- A Crop Specific Inputs** – allocated by producer to each crop as documented on the survey form
 - 1. **Seed**
 - 2. **Fertilizer**
 - 3. **Chemical**
 - 4. **Hail and Crop Insurance**
 - 5. **Custom Work and Specialized Labour**
 - 6. **Land Rent** – cash rent or crop share (converted to a cash basis)
- B Allocated Crop Inputs** – allocation ratios based on research from AAFRD
 - 1. **Irrigation to Dryland Ratio** – allocated to crops at a 3:1 ratio
 - 2. **Trucking and Marketing** – allocated to specific cropping acres by producer
 - 3. **Fuel** – Summerfallow – allocation of 0.3:1 compared to crop acres; Sugar beets – allocation of 2.96:1 compared to other irrigated crop acres
 - 4. **Irrigation Fuel** – allocation based on total pumping hours for each crop
 - 5. **Machinery Repairs** – allocated equally to all acres except summerfallow (0.3:1) and special crops (as specified by producer)
 - 6. **Building Repairs** – allocated to all acres equally except for special crops buildings
 - 7. **Operating Interest** – interest paid on operating loans allocated equally
 - 8. **Paid Labour** – based on allocations between crops as specified by producer
 - 9. **Unpaid and Operator Labour** – operator - \$10/hour, other unpaid labour - \$7.50/hour
 - 10. **Land Taxes** – allocated equally to all owned cropped acres
 - 11. **Water Rates** – allocated equally to all owned irrigated acres
 - 12. **Water Rates** – allocated equally to all owned irrigated acres
 - 13. **Equipment Depreciation** – imputed at 8.5% for power equipment, 11% for non-power, based on current market value

- 14. **Insurance and Licenses** – allocated to all cropped acres equally
- 15. **Building Depreciation** – imputed at 5% on the current market value
- 16. **Paid Capital Interest** – allocated to all owned cropped acres equally except summerfallow (0.25:1)

III CAPITAL INVESTMENT

- A Land** – producer estimate of bare land value for both irrigated and dryland owned acreage
- B Buildings** – allocated equally to all acreage except special crops buildings (allocated to the crop)
- C Equipment**
 - 1. **General Use** – allocated to all acres equally, except summerfallow (0.3:1)
 - 2. **Crop Specific** – allocated by producer to each crop based on percentage of use
 - 3. **Irrigation** – allocated according to pumping hours as specified by producer

IV SUMMARY CALCULATION

- A Gross Return** = imputed value of production + crop insurance receipts + miscellaneous receipts + government program payments + straw/grazing revenue
- B Variable Costs** = seed + fertilizer + chemicals + crop insurance + trucking and marketing + fuel + machinery and building repairs + utilities + miscellaneous overhead + custom work + operating interest + paid and unpaid labour
- C Total Capital Costs** = land rent + land taxes + water rates + insurance + depreciation + paid capital interest
- D Cash Costs** = variable costs + capital costs – unpaid labour – depreciation
- E Total Production Costs** = variable costs + total capital costs
- F Gross Margin** (returns left to cover total capital costs and operator equity) = gross return – total cash costs
- G Return to Unpaid Labour** (funds remaining after all expenses have been paid except unpaid labour) = gross return – total production costs + unpaid labour
- H Return to Investment** (shows the operation's ability to earn a return on its total assets) = gross return – total production costs + paid capital interest
- I Return to Equity** (amount remaining from operations used to provide a return to individual or shareholder equity) = gross return – total production costs