

AgriProfit\$

**Cost and Return Profiles for
Selected Crops, 2004
*Peace Region***

April, 2006

Alberta
AGRICULTURE, FOOD AND
RURAL DEVELOPMENT



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OVERVIEW

2004 Peace Grey Wooded 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 peace grey wooded 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 Peace Grey Wooded 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 2004 survey season.

For questions regarding this document please contact:

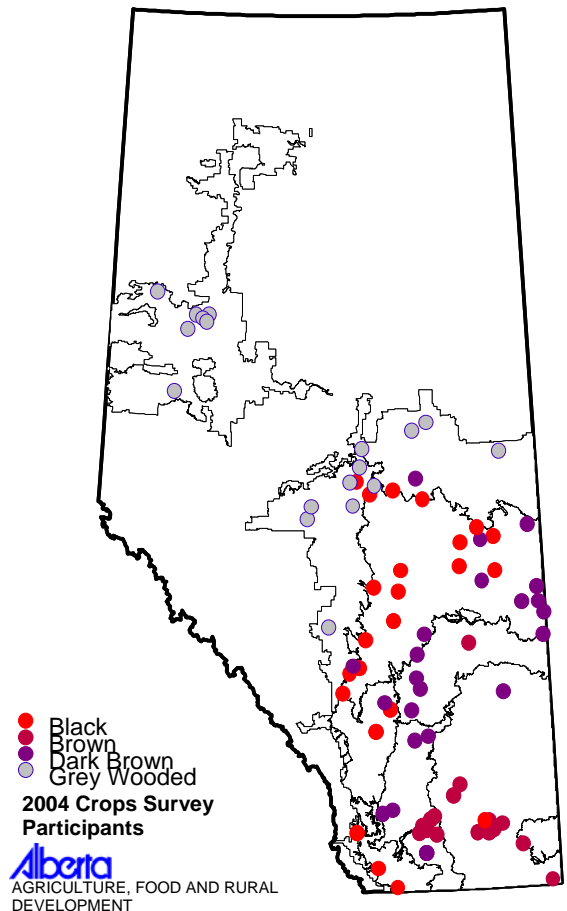
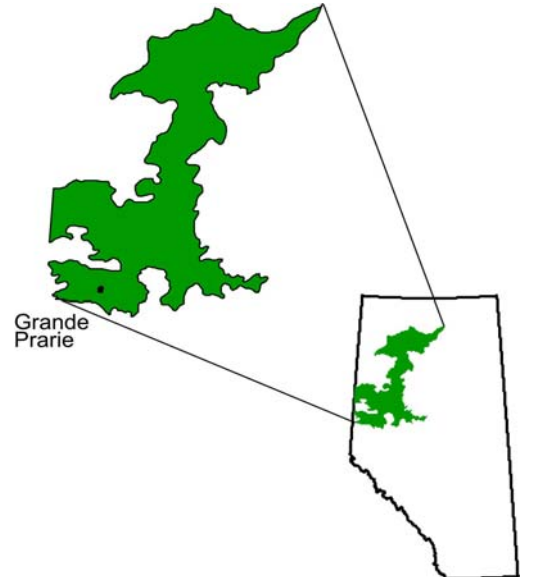
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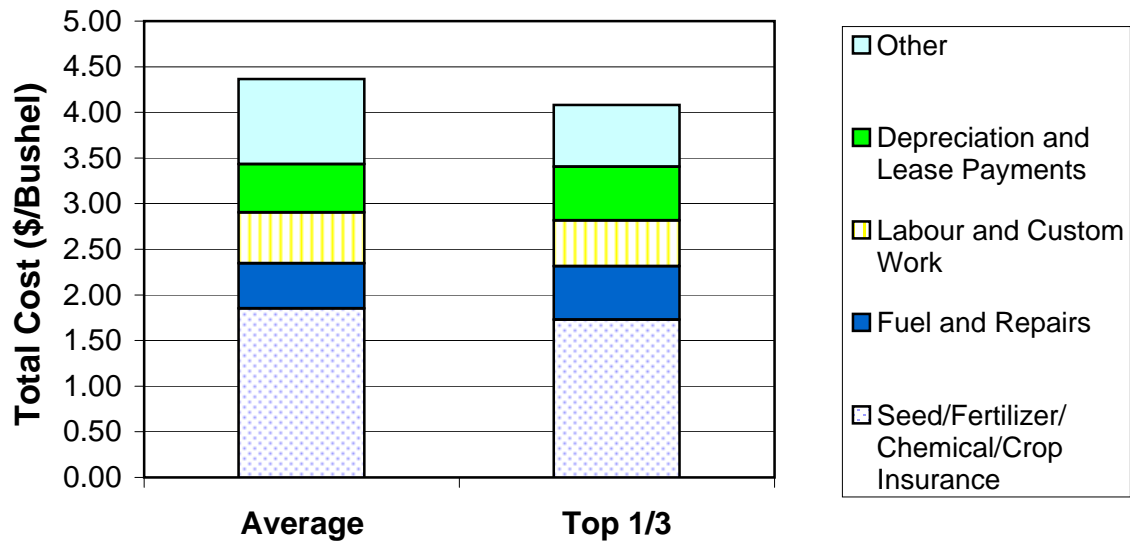
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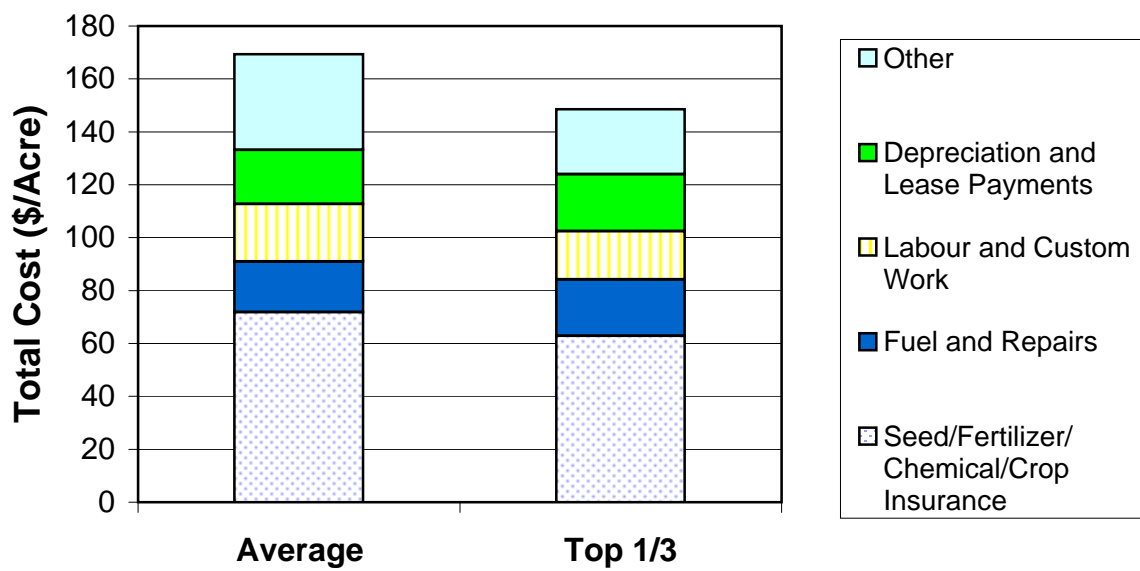
2004 Spring Wheat on Grey Wooded

Total Cost (\$/Bushel)



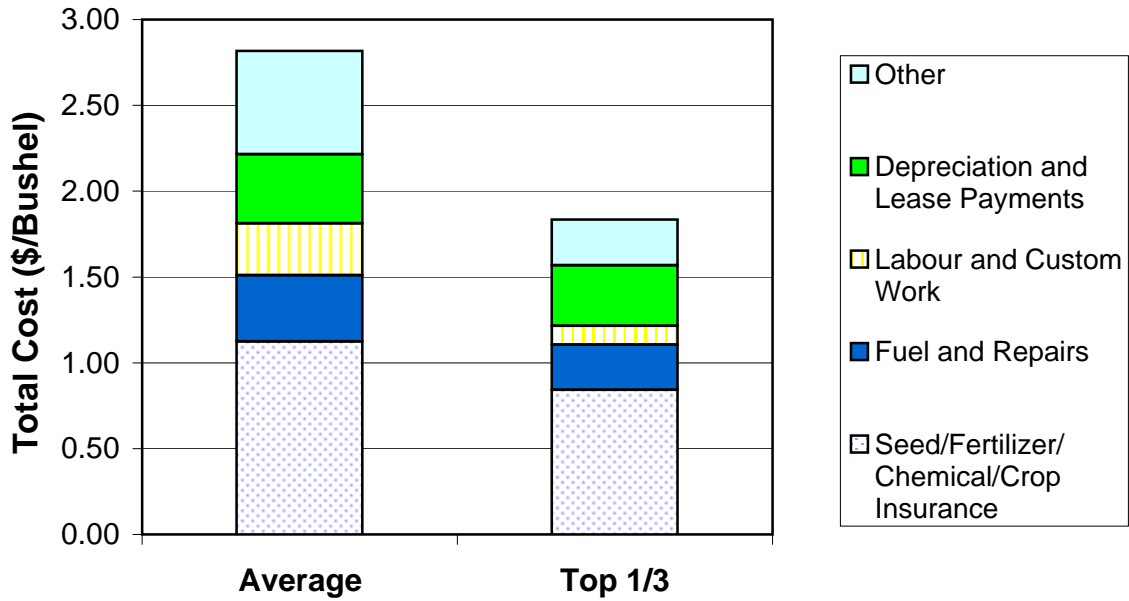
2004 Spring Wheat on Grey Wooded

Total Cost (\$/Acre)



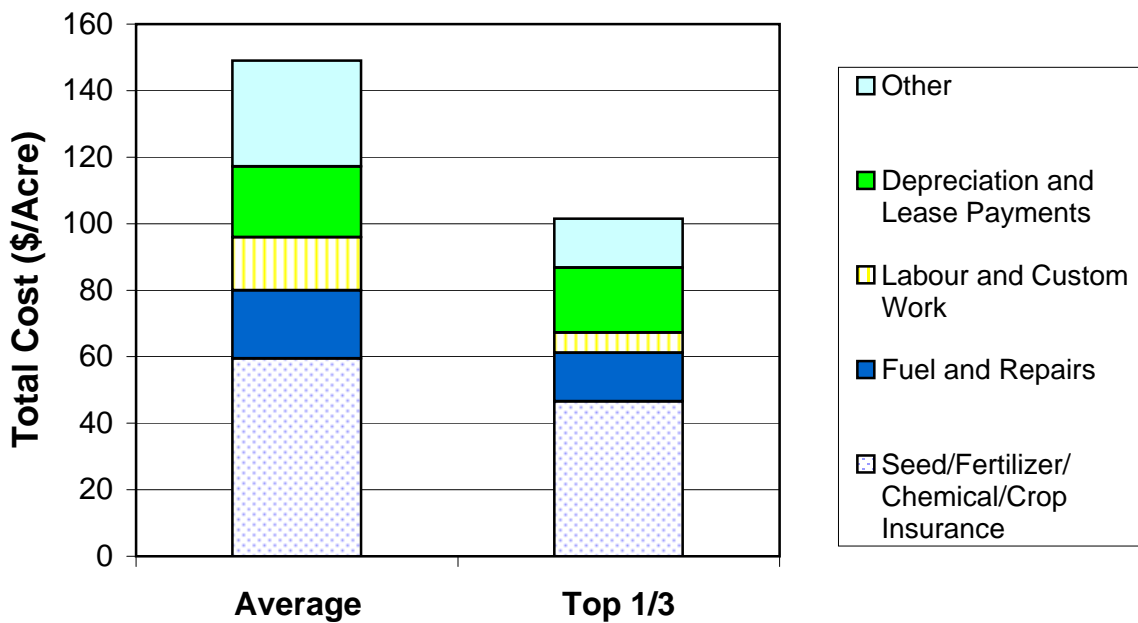
2004 Feed Barley on Grey Wooded Soil

Total Cost (\$/Bushel)



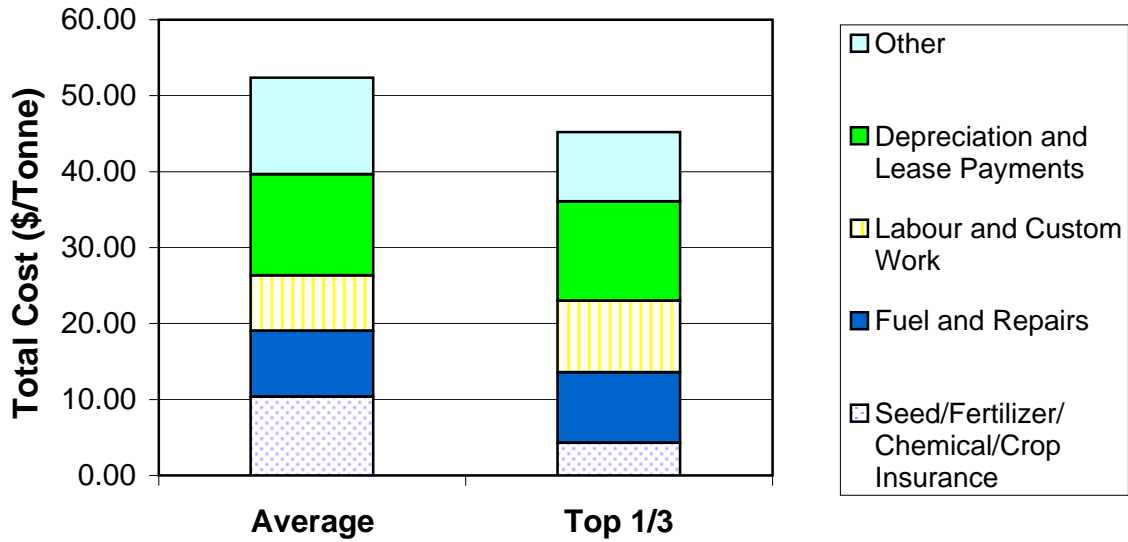
2004 Feed Barley on Grey Wooded Soil

Total Cost (\$/Acre)



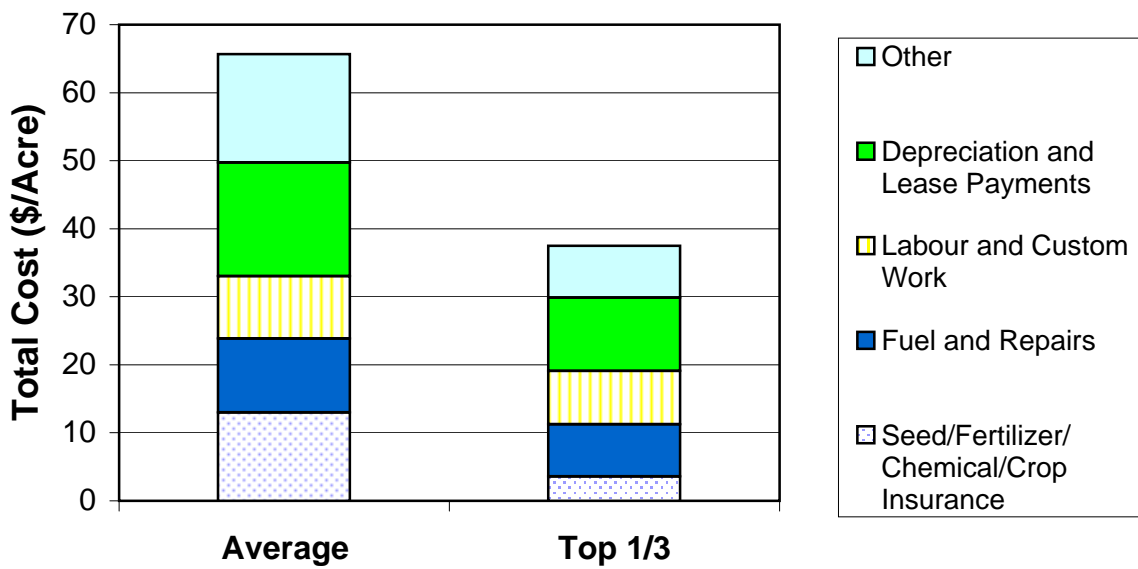
2004 Alfalfa/Grass Hay on Grey Wooded Soil

Total Cost (\$/Tonne)



2004 Alfalfa/Grass Hay on Grey Wooded Soil

Total Cost (\$/Acre)



2004 Crop Enterprise Analysis

AgriProfit\$

Crop: *Spring Wheat - All*
 Soil Zone: *Grey Wooded - Dryland*
 Unit: *Bushel*

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	71.05	84.98	1.83	2.34
	2. Crop Insurance Receipts	6.64	9.16	0.17	0.25
	3. Other Receipts	2.78	4.22	0.07	0.12
	Gross Receipts	80.46	98.37	2.07	2.70
(B)	Cost Items				
	1. Seed	11.01	8.48	0.28	0.23
	2. Fertilizer	34.69	30.23	0.89	0.83
	3. Chemical	20.00	16.54	0.52	0.45
	4. Hail/Crop Insurance Premium	6.11	7.71	0.16	0.21
	5. Trucking and Marketing	3.26	2.07	0.08	0.06
	6. Fuel	7.71	10.79	0.20	0.30
	7. Irrigation Fuel and Electricity	0.00	0.00	0.00	0.00
	8. Repairs - Machinery	10.47	9.28	0.27	0.26
	9. Repairs - Buildings	0.99	1.18	0.03	0.03
	10. Utilities and Miscellaneous	6.71	7.41	0.17	0.20
	11. Custom Work	7.65	6.09	0.20	0.17
	12. Operating Interest Paid	1.17	3.15	0.03	0.09
	13. Paid Labour	4.53	2.19	0.12	0.06
	14. Unpaid Labour	9.53	9.92	0.25	0.27
	Variable Costs	123.83	115.04	3.19	3.16
(C)	1. Cash/ Share Land Rent	17.48	1.76	0.45	0.05
	2. Taxes, Water Rates, License & Ins.	3.14	3.76	0.08	0.10
	3. Equipment and Building: a) Depreciation	20.53	21.51	0.53	0.59
	b) Lease Payments	0.00	0.00	0.00	0.00
	4. Paid Capital Interest	4.36	6.41	0.11	0.92
	Capital Costs	45.51	33.45	1.17	1.66
(D)	Cash Costs (B+C-B14-C3a)	139.29	117.06	3.59	3.96
(E)	Total Production Costs (B+C)	169.35	148.49	4.36	4.82
	Gross Margin (A-D)	(58.83)	(18.69)	(1.52)	(1.26)
	Return to Unpaid Labour (A-E+B14)	(79.36)	(40.20)	(2.04)	(1.85)
	Return to Investment (A-E+C4)	(84.53)	(43.71)	(2.18)	(1.20)
	Return to Equity (A-E)	(88.89)	(50.12)	(2.29)	(2.12)

Investment

Buildings	92.54	108.30
Machinery	166.05	172.54
Irrigation Machinery	0.00	0.00
Total (incl. Land)	499.66	780.83

Management

Average Yield (Bushel/acre)	38.81	36.39
Expected Market Price (\$/Bushel)	1.83	2.34

2004 Crop Enterprise Analysis

AgriProfit\$

Crop: *Spring Wheat - Own*
Soil Zone: *Grey Wooded - Dryland*
Unit: *Bushel*

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	72.71	82.94	2.27	2.14
	2. Crop Insurance Receipts	14.29	7.78	0.45	0.20
	3. Other Receipts	5.00	9.00	0.16	0.23
	Gross Receipts	91.99	99.72	2.87	2.57
(B)	Cost Items				
	1. Seed	8.83	8.39	0.28	0.22
	2. Fertilizer	32.34	30.13	1.01	0.78
	3. Chemical	18.73	15.41	0.58	0.40
	4. Hail/Crop Insurance Premium	6.82	5.63	0.21	0.15
	5. Trucking and Marketing	2.49	1.22	0.08	0.03
	6. Fuel	9.67	9.43	0.30	0.24
	7. Irrigation Fuel and Electricity	0.00	0.00	0.00	0.00
	8. Repairs - Machinery	12.77	7.50	0.40	0.19
	9. Repairs - Buildings	1.04	0.82	0.03	0.02
	10. Utilities and Miscellaneous	7.08	6.78	0.22	0.17
	11. Custom Work	9.57	3.56	0.30	0.09
	12. Operating Interest Paid	2.46	5.11	0.08	0.13
	13. Paid Labour	2.52	0.00	0.08	0.00
	14. Unpaid Labour	8.96	7.58	0.28	0.20
	Variable Costs	123.28	101.55	3.84	2.62
(C)	1. Cash/ Share Land Rent	0.00	0.00	0.00	0.00
	2. Taxes, Water Rates, License & Ins.	3.44	3.14	0.11	0.08
	3. Equipment and Building: a) Depreciation	19.87	22.70	0.62	0.59
	b) Lease Payments	0.00	0.00	0.00	0.00
	4. Paid Capital Interest	9.19	5.45	0.29	0.81
	Capital Costs	32.50	31.29	1.01	1.47
(D)	Cash Costs (B+C-B14-C3a)	126.95	102.57	3.96	3.31
(E)	Total Production Costs (B+C)	155.78	132.85	4.85	4.09
	Gross Margin (A-D)	(34.96)	(2.85)	(1.09)	(0.74)
	Return to Unpaid Labour (A-E+B14)	(54.83)	(25.55)	(1.71)	(1.33)
	Return to Investment (A-E+C4)	(54.60)	(27.68)	(1.70)	(0.71)
	Return to Equity (A-E)	(63.79)	(33.13)	(1.99)	(1.52)

Investment

Buildings	88.19	92.70
Machinery	164.94	198.09
Irrigation Machinery	0.00	0.00
Total (incl. Land)	772.07	923.14

Management

Average Yield (Bushel/acre)	32.10	38.76
Expected Market Price (\$/Bushel)	2.27	2.14

2004 Crop Enterprise Analysis

AgriProfit\$

Crop: *Spring Wheat - Rent*
 Soil Zone: *Grey Wooded - Dryland*
 Unit: *Bushel*

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	69.61	71.29	1.56	1.74
	2. Crop Insurance Receipts	0.00	0.00	0.00	0.00
	3. Other Receipts	0.85	3.19	0.02	0.08
Gross Receipts		70.46	74.47	1.58	1.82
(B)	Cost Items				
	1. Seed	12.90	9.86	0.29	0.24
	2. Fertilizer	36.72	35.96	0.82	0.88
	3. Chemical	21.09	15.31	0.47	0.37
	4. Hail/Crop Insurance Premium	5.50	5.23	0.12	0.13
	5. Trucking and Marketing	3.94	4.43	0.09	0.11
	6. Fuel	6.01	7.56	0.13	0.19
	7. Irrigation Fuel and Electricity	0.00	0.00	0.00	0.00
	8. Repairs - Machinery	8.48	13.98	0.19	0.34
	9. Repairs - Buildings	0.95	1.30	0.02	0.03
	10. Utilities and Miscellaneous	6.39	6.29	0.14	0.15
	11. Custom Work	5.98	5.99	0.13	0.15
	12. Operating Interest Paid	0.06	0.23	0.00	0.01
	13. Paid Labour	6.28	7.26	0.14	0.18
	14. Unpaid Labour	10.02	10.48	0.22	0.26
Variable Costs		124.32	123.88	2.79	3.03
(C)	1. Cash/ Share Land Rent	32.65	23.43	0.73	0.57
	2. Taxes, Water Rates, License & Ins.	2.88	1.42	0.06	0.03
	3. Equipment and Building: a) Depreciation	21.11	17.34	0.47	0.42
	b) Lease Payments	0.00	0.00	0.00	0.00
	4. Paid Capital Interest	0.17	0.65	0.00	1.05
Capital Costs		56.81	42.84	1.27	2.08
(D)	Cash Costs (B+C-B14-C3a)	149.99	138.89	3.36	4.43
(E)	Total Production Costs (B+C)	181.12	166.71	4.06	5.11
	Gross Margin (A-D)	(79.53)	(64.42)	(1.78)	(2.61)
	Return to Unpaid Labour (A-E+B14)	(100.64)	(81.76)	(2.25)	(3.03)
	Return to Investment (A-E+C4)	(110.49)	(91.59)	(2.48)	(2.24)
	Return to Equity (A-E)	(110.66)	(92.24)	(2.48)	(3.29)

Investment

Buildings	96.32	69.60
Machinery	167.00	149.40
Irrigation Machinery	0.00	0.00
Total (incl. Land)	263.32	219.00

Management

Average Yield (Bushel/acre)	44.63	40.86
Expected Market Price (\$/Bushel)	1.56	1.74

2004 Crop Enterprise Analysis

AgriProfit\$

Crop: **Feed Barley - All**
 Soil Zone: **Grey Wooded - Dryland**
 Unit: **Bushel**

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	76.15	57.03	1.44	1.03
	2. Crop Insurance Receipts	13.64	24.09	0.26	0.44
	3. Other Receipts	4.55	2.13	0.09	0.04
	Gross Receipts	94.34	83.26	1.78	1.51
(B)	Cost Items				
	1. Seed	8.82	6.76	0.17	0.12
	2. Fertilizer	34.28	27.67	0.65	0.50
	3. Chemical	11.73	11.22	0.22	0.20
	4. Hail/Crop Insurance Premium	4.64	0.95	0.09	0.02
	5. Trucking and Marketing	3.71	1.33	0.07	0.02
	6. Fuel	7.03	5.75	0.13	0.10
	7. Irrigation Fuel and Electricity	0.00	0.00	0.00	0.00
	8. Repairs - Machinery	12.36	8.12	0.23	0.15
	9. Repairs - Buildings	1.05	0.70	0.02	0.01
	10. Utilities and Miscellaneous	8.83	3.16	0.17	0.06
	11. Custom Work	2.64	0.00	0.05	0.00
	12. Operating Interest Paid	2.97	5.93	0.06	0.11
	13. Paid Labour	5.40	1.00	0.10	0.02
	14. Unpaid Labour	7.95	5.10	0.15	0.09
	Variable Costs	111.41	77.69	2.11	1.40
(C)	1. Cash/ Share Land Rent	12.49	0.00	0.24	0.00
	2. Taxes, Water Rates, License & Ins.	1.54	1.30	0.03	0.02
	3. Equipment and Building: a) Depreciation	21.29	19.49	0.40	0.35
	b) Lease Payments	0.00	0.00	0.00	0.00
4. Paid Capital Interest	2.32	3.03	0.04	0.43	
	Capital Costs	37.65	23.81	0.71	0.81
(D)	Cash Costs (B+C-B14-C3a)	119.82	76.91	2.27	1.77
(E)	Total Production Costs (B+C)	149.06	101.50	2.82	2.21
	Gross Margin (A-D)	(25.47)	6.34	(0.48)	(0.26)
	Return to Unpaid Labour (A-E+B14)	(46.77)	(13.14)	(0.88)	(0.61)
	Return to Investment (A-E+C4)	(52.40)	(15.21)	(0.99)	(0.28)
	Return to Equity (A-E)	(54.72)	(18.24)	(1.03)	(0.71)

Investment

Buildings	60.66	36.71
Machinery	199.69	203.38
Irrigation Machinery	0.00	0.00
Total (incl. Land)	524.85	969.20

Management

Average Yield (Bushel/acre)	52.89	55.30
Expected Market Price (\$/Bushel)	1.44	1.03

2004 Crop Enterprise Analysis

AgriProfit\$

Crop: **Feed Barley - Own**
 Soil Zone: **Grey Wooded - Dryland**
 Unit: **Bushel**

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	60.58	69.25	1.26	1.03
	2. Crop Insurance Receipts	27.23	0.00	0.57	0.00
	3. Other Receipts	3.61	0.19	0.07	0.00
	Gross Receipts	91.42	69.44	1.90	1.03
(B)	Cost Items				
	1. Seed	8.98	6.25	0.19	0.09
	2. Fertilizer	32.96	25.59	0.68	0.38
	3. Chemical	6.87	10.56	0.14	0.16
	4. Hail/Crop Insurance Premium	5.44	0.39	0.11	0.01
	5. Trucking and Marketing	3.15	0.05	0.07	0.00
	6. Fuel	6.49	4.74	0.13	0.07
	7. Irrigation Fuel and Electricity	0.00	0.00	0.00	0.00
	8. Repairs - Machinery	8.98	2.92	0.19	0.04
	9. Repairs - Buildings	1.03	0.82	0.02	0.01
	10. Utilities and Miscellaneous	11.29	2.21	0.23	0.03
	11. Custom Work	0.67	0.00	0.01	0.00
	12. Operating Interest Paid	5.48	7.14	0.11	0.11
	13. Paid Labour	4.81	0.32	0.10	0.00
	14. Unpaid Labour	6.40	4.29	0.13	0.06
	Variable Costs	102.55	65.28	2.13	0.97
(C)	1. Cash/ Share Land Rent	0.00	0.00	0.00	0.00
	2. Taxes, Water Rates, License & Ins.	1.64	0.70	0.03	0.01
	3. Equipment and Building: a) Depreciation	25.00	19.07	0.52	0.28
	b) Lease Payments	0.00	0.00	0.00	0.00
	4. Paid Capital Interest	2.86	0.68	0.06	0.30
	Capital Costs	29.51	20.45	0.61	0.60
(D)	Cash Costs (B+C-B14-C3a)	100.65	62.38	2.09	1.22
(E)	Total Production Costs (B+C)	132.06	85.73	2.74	1.56
	Gross Margin (A-D)	(9.23)	7.07	(0.19)	(0.19)
	Return to Unpaid Labour (A-E+B14)	(34.23)	(12.00)	(0.71)	(0.47)
	Return to Investment (A-E+C4)	(37.77)	(15.61)	(0.78)	(0.23)
	Return to Equity (A-E)	(40.64)	(16.29)	(0.84)	(0.53)

Investment

Buildings	55.51	31.70
Machinery	246.39	204.54
Irrigation Machinery	0.00	0.00
Total (incl. Land)	829.95	954.99

Management

Average Yield (Bushel/acre)	48.15	67.50
Expected Market Price (\$/Bushel)	1.26	1.03

2004 Crop Enterprise Analysis

AgriProfit\$

Crop: **Feed Barley - Rent**
 Soil Zone: **Grey Wooded - Dryland**
 Unit: **Bushel**

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	91.79	--	1.59	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	5.49	--	0.10	--
	Gross Receipts	97.28	0.00	1.69	0.00
(B)	Cost Items				
	1. Seed	8.66	--	0.15	--
	2. Fertilizer	35.61	--	0.62	--
	3. Chemical	16.62	--	0.29	--
	4. Hail/Crop Insurance Premium	3.84	--	0.07	--
	5. Trucking and Marketing	4.27	--	0.07	--
	6. Fuel	7.56	--	0.13	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	15.75	--	0.27	--
	9. Repairs - Buildings	1.07	--	0.02	--
	10. Utilities and Miscellaneous	6.36	--	0.11	--
	11. Custom Work	4.61	--	0.08	--
	12. Operating Interest Paid	0.46	--	0.01	--
	13. Paid Labour	6.00	--	0.10	--
	14. Unpaid Labour	9.50	--	0.16	--
Variable Costs	120.31	0.00	2.09	0.00	
(C)	1. Cash/ Share Land Rent	25.03	--	0.43	--
	2. Taxes, Water Rates, License & Ins.	1.44	--	0.02	--
	3. Equipment and Building:				
	a) Depreciation	17.57	--	0.30	--
	b) Lease Payments	0.00	--	0.00	--
4. Paid Capital Interest	1.78	--	0.03	--	
Capital Costs	45.82	0.00	0.79	0.00	
(D)	Cash Costs (B+C-B14-C3a)	139.06	--	2.41	--
(E)	Total Production Costs (B+C)	166.13	--	2.88	--
	Gross Margin (A-D)	(41.78)	--	(0.72)	--
	Return to Unpaid Labour (A-E+B14)	(59.35)	--	(1.03)	--
	Return to Investment (A-E+C4)	(67.07)	--	(1.16)	--
	Return to Equity (A-E)	(68.85)	--	(1.19)	--

Investment

Buildings	65.82	--
Machinery	152.81	--
Irrigation Machinery	0.00	--
Total (incl. Land)	218.63	--

Management

Average Yield (Bushel/acre)	57.65	--
Expected Market Price (\$/Bushel)	1.59	--

2004 Crop Enterprise Analysis

AgriProfit\$

Crop: *Polish Canola - All*
 Soil Zone: *Grey Wooded - Dryland*
 Unit: *Bushel*

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	163.18	--	6.01	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	4.19	--	0.15	--
Gross Receipts		167.37	0.00	6.16	0.00
(B)	Cost Items				
	1. Seed	15.51	--	0.57	--
	2. Fertilizer	37.36	--	1.37	--
	3. Chemical	17.06	--	0.63	--
	4. Hail/Crop Insurance Premium	11.51	--	0.42	--
	5. Trucking and Marketing	4.75	--	0.17	--
	6. Fuel	7.03	--	0.26	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	9.42	--	0.35	--
	9. Repairs - Buildings	1.26	--	0.05	--
	10. Utilities and Miscellaneous	17.03	--	0.63	--
	11. Custom Work	1.38	--	0.05	--
	12. Operating Interest Paid	4.27	--	0.16	--
	13. Paid Labour	8.08	--	0.30	--
	14. Unpaid Labour	8.20	--	0.30	--
Variable Costs		142.87	0.00	5.26	0.00
(C)	1. Cash/ Share Land Rent	6.62	--	0.24	--
	2. Taxes, Water Rates, License & Ins.	2.19	--	0.08	--
	3. Equipment and Building: a) Depreciation	29.48	--	1.08	--
	b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	2.29	--	0.08	--
Capital Costs		40.57	0.00	1.49	0.00
(D)	Cash Costs (B+C-B14-C3a)	145.77	--	5.36	--
(E)	Total Production Costs (B+C)	183.44	--	6.75	--
	Gross Margin (A-D)	21.61	--	0.80	--
	Return to Unpaid Labour (A-E+B14)	(7.87)	--	(0.29)	--
	Return to Investment (A-E+C4)	(13.79)	--	(0.51)	--
	Return to Equity (A-E)	(16.07)	--	(0.59)	--

Investment

Buildings	80.80	--
Machinery	272.86	--
Irrigation Machinery	0.00	--
Total (incl. Land)	631.29	--

Management

Average Yield	(Bushel/acre)	27.17	--
Expected Market Price	(\$/Bushel)	6.01	--

2004 Crop Enterprise Analysis

AgriProfit\$

Crop: *Argentine Canola - All*
 Soil Zone: *Grey Wooded - Dryland*
 Unit: *Bushel*

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	146.64	--	6.43	--
	2. Crop Insurance Receipts	34.12	--	1.50	--
	3. Other Receipts	0.64	--	0.03	--
Gross Receipts		181.40	0.00	7.96	0.00
(B)	Cost Items				
	1. Seed	25.81	--	1.13	--
	2. Fertilizer	39.25	--	1.72	--
	3. Chemical	23.62	--	1.04	--
	4. Hail/Crop Insurance Premium	10.72	--	0.47	--
	5. Trucking and Marketing	2.65	--	0.12	--
	6. Fuel	5.58	--	0.24	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	7.01	--	0.31	--
	9. Repairs - Buildings	1.16	--	0.05	--
	10. Utilities and Miscellaneous	6.16	--	0.27	--
	11. Custom Work	3.73	--	0.16	--
	12. Operating Interest Paid	0.42	--	0.02	--
	13. Paid Labour	5.60	--	0.25	--
	14. Unpaid Labour	9.16	--	0.40	--
Variable Costs		140.86	0.00	6.18	0.00
(C)	1. Cash/ Share Land Rent	22.48	--	0.99	--
	2. Taxes, Water Rates, License & Ins.	2.66	--	0.12	--
	3. Equipment and Building: a) Depreciation	18.55	--	0.81	--
	b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	4.06	--	0.18	--
Capital Costs		47.74	0.00	2.09	0.00
(D)	Cash Costs (B+C-B14-C3a)	160.90	--	7.06	--
(E)	Total Production Costs (B+C)	188.61	--	8.27	--
	Gross Margin (A-D)	20.50	--	0.90	--
	Return to Unpaid Labour (A-E+B14)	1.95	--	0.09	--
	Return to Investment (A-E+C4)	(3.15)	--	(0.14)	--
	Return to Equity (A-E)	(7.21)	--	(0.32)	--

Investment

Buildings	83.96	--
Machinery	146.67	--
Irrigation Machinery	0.00	--
Total (incl. Land)	324.55	--

Management

Average Yield (Bushel/acre)	22.80	--
Expected Market Price (\$/Bushel)	6.43	--

2004 Crop Enterprise Analysis

AgriProfit\$

Crop: *Argentine Canola - Rent*
 Soil Zone: *Grey Wooded - Dryland*
 Unit: *Bushel*

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	192.00	--	6.00	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	0.00	--	0.00	--
Gross Receipts		192.00	0.00	6.00	0.00
(B)	Cost Items				
	1. Seed	29.30	--	0.92	--
	2. Fertilizer	37.00	--	1.16	--
	3. Chemical	24.00	--	0.75	--
	4. Hail/Crop Insurance Premium	10.10	--	0.32	--
	5. Trucking and Marketing	3.76	--	0.12	--
	6. Fuel	5.44	--	0.17	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	6.49	--	0.20	--
	9. Repairs - Buildings	0.83	--	0.03	--
	10. Utilities and Miscellaneous	6.42	--	0.20	--
	11. Custom Work	5.97	--	0.19	--
	12. Operating Interest Paid	0.00	--	0.00	--
	13. Paid Labour	5.92	--	0.18	--
	14. Unpaid Labour	9.86	--	0.31	--
Variable Costs		145.08	0.00	4.53	0.00
(C)	1. Cash/ Share Land Rent	36.00	--	1.13	--
	2. Taxes, Water Rates, License & Ins.	3.40	--	0.11	--
	3. Equipment and Building: a) Depreciation	22.48	--	0.70	--
	b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	0.00	--	0.00	--
Capital Costs		61.88	0.00	1.93	0.00
(D)	Cash Costs (B+C-B14-C3a)	174.63	--	5.46	--
(E)	Total Production Costs (B+C)	206.96	--	6.47	--
	Gross Margin (A-D)	17.37	--	0.54	--
	Return to Unpaid Labour (A-E+B14)	(5.11)	--	(0.16)	--
	Return to Investment (A-E+C4)	(14.96)	--	(0.47)	--
	Return to Equity (A-E)	(14.96)	--	(0.47)	--

Investment

Buildings	106.02	--
Machinery	173.40	--
Irrigation Machinery	0.00	--
Total (incl. Land)	279.42	--

Management

Average Yield (Bushel/acre)	32.00	--
Expected Market Price (\$/Bushel)	6.00	--

2004 Crop Enterprise Analysis

AgriProfit\$

Crop: *Clearfield Canola - All*
 Soil Zone: *Grey Wooded - Dryland*
 Unit: *Bushel*

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	137.96	--	5.71	--
	2. Crop Insurance Receipts	4.60	--	0.19	--
	3. Other Receipts	5.09	--	0.21	--
	Gross Receipts	147.66	0.00	6.11	0.00
(B)	Cost Items				
	1. Seed	17.20	--	0.71	--
	2. Fertilizer	38.37	--	1.59	--
	3. Chemical	22.17	--	0.92	--
	4. Hail/Crop Insurance Premium	9.27	--	0.38	--
	5. Trucking and Marketing	5.25	--	0.22	--
	6. Fuel	7.60	--	0.31	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	18.05	--	0.75	--
	9. Repairs - Buildings	0.45	--	0.02	--
	10. Utilities and Miscellaneous	6.81	--	0.28	--
	11. Custom Work	3.24	--	0.13	--
	12. Operating Interest Paid	0.37	--	0.02	--
	13. Paid Labour	4.70	--	0.19	--
	14. Unpaid Labour	9.04	--	0.37	--
	Variable Costs	142.53	0.00	5.90	0.00
(C)	1. Cash/ Share Land Rent	19.55	--	0.81	--
	2. Taxes, Water Rates, License & Ins.	3.62	--	0.15	--
	3. Equipment and Building: a) Depreciation	22.19	--	0.92	--
	b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	6.40	--	0.26	--
	Capital Costs	51.76	0.00	2.14	0.00
(D)	Cash Costs (B+C-B14-C3a)	163.07	--	6.75	--
(E)	Total Production Costs (B+C)	194.29	--	8.05	--
	Gross Margin (A-D)	(15.41)	--	(0.64)	--
	Return to Unpaid Labour (A-E+B14)	(37.59)	--	(1.56)	--
	Return to Investment (A-E+C4)	(40.24)	--	(1.67)	--
	Return to Equity (A-E)	(46.64)	--	(1.93)	--

Investment

Buildings	83.89	--
Machinery	187.44	--
Irrigation Machinery	0.00	--
Total (incl. Land)	636.82	--

Management

Average Yield (Bushel/acre)	24.15	--
Expected Market Price (\$/Bushel)	5.71	--

2004 Crop Enterprise Analysis

AgriProfit\$

Crop: **Clearfield Canola - Rent**
 Soil Zone: **Grey Wooded - Dryland**
 Unit: **Bushel**

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	166.78	--	5.21	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	0.00	--	0.00	--
	Gross Receipts	166.78	0.00	5.21	0.00
(B)	Cost Items				
	1. Seed	14.00	--	0.44	--
	2. Fertilizer	37.00	--	1.16	--
	3. Chemical	24.00	--	0.75	--
	4. Hail/Crop Insurance Premium	10.10	--	0.32	--
	5. Trucking and Marketing	3.76	--	0.12	--
	6. Fuel	5.44	--	0.17	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	6.49	--	0.20	--
	9. Repairs - Buildings	0.83	--	0.03	--
	10. Utilities and Miscellaneous	6.42	--	0.20	--
	11. Custom Work	5.97	--	0.19	--
	12. Operating Interest Paid	0.00	--	0.00	--
	13. Paid Labour	5.92	--	0.18	--
14. Unpaid Labour	9.86	--	0.31	--	
	Variable Costs	129.78	0.00	4.06	0.00
(C)	1. Cash/ Share Land Rent	36.00	--	1.13	--
	2. Taxes, Water Rates, License & Ins.	3.40	--	0.11	--
	3. Equipment and Building: a) Depreciation	22.48	--	0.70	--
	b) Lease Payments	0.00	--	0.00	--
4. Paid Capital Interest	0.00	--	0.00	--	
	Capital Costs	61.88	0.00	1.93	0.00
(D)	Cash Costs (B+C-B14-C3a)	159.33	--	4.98	--
(E)	Total Production Costs (B+C)	191.66	--	5.99	--
	Gross Margin (A-D)	7.45	--	0.23	--
	Return to Unpaid Labour (A-E+B14)	(15.03)	--	(0.47)	--
	Return to Investment (A-E+C4)	(24.88)	--	(0.78)	--
	Return to Equity (A-E)	(24.88)	--	(0.78)	--

Investment

Buildings	106.02	--
Machinery	173.40	--
Irrigation Machinery	0.00	--
Total (incl. Land)	279.42	--

Management

Average Yield (Bushel/acre)	32.00	--
Expected Market Price (\$/Bushel)	5.21	--

2004 Crop Enterprise Analysis

AgriProfit\$

Crop: *Liberty Link Canola - All*
 Soil Zone: *Grey Wooded - Dryland*
 Unit: *Bushel*

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	180.00	--	5.38	--
	2. Crop Insurance Receipts	9.70	--	0.29	--
	3. Other Receipts	0.15	--	0.00	--
	Gross Receipts	189.85	0.00	5.67	0.00
(B)	Cost Items				
	1. Seed	36.93	--	1.10	--
	2. Fertilizer	39.19	--	1.17	--
	3. Chemical	25.54	--	0.76	--
	4. Hail/Crop Insurance Premium	16.37	--	0.49	--
	5. Trucking and Marketing	3.06	--	0.09	--
	6. Fuel	10.97	--	0.33	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	10.35	--	0.31	--
	9. Repairs - Buildings	0.87	--	0.03	--
	10. Utilities and Miscellaneous	8.17	--	0.24	--
	11. Custom Work	20.94	--	0.63	--
	12. Operating Interest Paid	1.41	--	0.04	--
	13. Paid Labour	2.42	--	0.07	--
	14. Unpaid Labour	10.86	--	0.32	--
	Variable Costs	187.08	0.00	5.59	0.00
(C)	1. Cash/ Share Land Rent	14.70	--	0.44	--
	2. Taxes, Water Rates, License & Ins.	4.90	--	0.15	--
	3. Equipment and Building: a) Depreciation	24.71	--	0.74	--
	b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	6.85	--	0.20	--
	Capital Costs	51.16	0.00	1.53	0.00
(D)	Cash Costs (B+C-B14-C3a)	202.67	--	6.05	--
(E)	Total Production Costs (B+C)	238.25	--	7.12	--
	Gross Margin (A-D)	(12.82)	--	(0.38)	--
	Return to Unpaid Labour (A-E+B14)	(37.53)	--	(1.12)	--
	Return to Investment (A-E+C4)	(41.54)	--	(1.24)	--
	Return to Equity (A-E)	(48.39)	--	(1.45)	--

Investment

Buildings	139.44	--
Machinery	179.18	--
Irrigation Machinery	0.00	--
Total (incl. Land)	614.52	--

Management

Average Yield (Bushel/acre)	33.48	--
Expected Market Price (\$/Bushel)	5.38	--

2004 Crop Enterprise Analysis

AgriProfit\$

Crop: *Liberty Link Canola - Own*
 Soil Zone: *Grey Wooded - Dryland*
 Unit: *Bushel*

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	167.58	--	5.28	--
	2. Crop Insurance Receipts	16.39	--	0.52	--
	3. Other Receipts	0.26	--	0.01	--
Gross Receipts		184.23	0.00	5.81	0.00
(B)	Cost Items				
	1. Seed	40.03	--	1.26	--
	2. Fertilizer	40.69	--	1.28	--
	3. Chemical	26.60	--	0.84	--
	4. Hail/Crop Insurance Premium	20.69	--	0.65	--
	5. Trucking and Marketing	2.58	--	0.08	--
	6. Fuel	14.78	--	0.47	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	13.02	--	0.41	--
	9. Repairs - Buildings	0.90	--	0.03	--
	10. Utilities and Miscellaneous	9.37	--	0.30	--
	11. Custom Work	31.27	--	0.99	--
	12. Operating Interest Paid	2.38	--	0.07	--
	13. Paid Labour	0.00	--	0.00	--
	14. Unpaid Labour	11.56	--	0.36	--
Variable Costs		213.88	0.00	6.74	0.00
(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	5.94	--	0.19	--
	3. Equipment and Building: a) Depreciation	26.26	--	0.83	--
	b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	11.58	--	0.36	--
Capital Costs		43.78	0.00	1.38	0.00
(D)	Cash Costs (B+C-B14-C3a)	219.83	--	6.93	--
(E)	Total Production Costs (B+C)	257.65	--	8.12	--
	Gross Margin (A-D)	(35.60)	--	(1.12)	--
	Return to Unpaid Labour (A-E+B14)	(61.86)	--	(1.95)	--
	Return to Investment (A-E+C4)	(61.84)	--	(1.95)	--
	Return to Equity (A-E)	(73.42)	--	(2.31)	--

Investment

Buildings	162.49	--
Machinery	183.16	--
Irrigation Machinery	0.00	--
Total (incl. Land)	845.65	--

Management

Average Yield	(Bushel/acre)	31.73	--
Expected Market Price	(\$/Bushel)	5.28	--

2004 Crop Enterprise Analysis

AgriProfit\$

Crop: *Roundup Ready Canola - All*
 Soil Zone: *Grey Wooded - Dryland*
 Unit: *Bushel*

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	154.75	--	7.11	--
	2. Crop Insurance Receipts	53.68	--	2.47	--
	3. Other Receipts	1.03	--	0.05	--
Gross Receipts		209.46	0.00	9.62	0.00
(B)	Cost Items				
	1. Seed	31.53	--	1.45	--
	2. Fertilizer	40.22	--	1.85	--
	3. Chemical	8.47	--	0.39	--
	4. Hail/Crop Insurance Premium	12.64	--	0.58	--
	5. Trucking and Marketing	1.69	--	0.08	--
	6. Fuel	8.90	--	0.41	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	9.49	--	0.44	--
	9. Repairs - Buildings	1.60	--	0.07	--
	10. Utilities and Miscellaneous	6.91	--	0.32	--
	11. Custom Work	4.12	--	0.19	--
	12. Operating Interest Paid	1.36	--	0.06	--
	13. Paid Labour	4.36	--	0.20	--
	14. Unpaid Labour	9.86	--	0.45	--
Variable Costs		141.16	0.00	6.48	0.00
(C)	1. Cash/ Share Land Rent	8.15	--	0.37	--
	2. Taxes, Water Rates, License & Ins.	2.29	--	0.11	--
	3. Equipment and Building: a) Depreciation	16.49	--	0.76	--
	b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	7.90	--	0.36	--
Capital Costs		34.83	0.00	1.60	0.00
(D)	Cash Costs (B+C-B14-C3a)	149.64	--	6.87	--
(E)	Total Production Costs (B+C)	175.98	--	8.08	--
	Gross Margin (A-D)	59.82	--	2.75	--
	Return to Unpaid Labour (A-E+B14)	43.34	--	1.99	--
	Return to Investment (A-E+C4)	41.37	--	1.90	--
	Return to Equity (A-E)	33.47	--	1.54	--

Investment

Buildings	84.84	--
Machinery	128.24	--
Irrigation Machinery	0.00	--
Total (incl. Land)	410.31	--

Management

Average Yield	(Bushel/acre)	21.77	--
Expected Market Price	(\$/Bushel)	7.11	--

2004 Crop Enterprise Analysis

AgriProfit\$

Crop: *Roundup Ready Canola - Own*
 Soil Zone: *Grey Wooded - Dryland*
 Unit: *Bushel*

		----- \$/Acre -----		----- \$/Bushel -----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	143.13	--	5.95	--	
	2. Crop Insurance Receipts	37.04	--	1.54	--	
	3. Other Receipts	0.75	--	0.03	--	
	Gross Receipts	180.92	0.00	7.52	0.00	
(B)	Cost Items					
	1. Seed	27.05	--	1.12	--	
	2. Fertilizer	39.93	--	1.66	--	
	3. Chemical	11.37	--	0.47	--	
	4. Hail/Crop Insurance Premium	14.92	--	0.62	--	
	5. Trucking and Marketing	1.97	--	0.08	--	
	6. Fuel	11.70	--	0.49	--	
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--	
	8. Repairs - Machinery	11.25	--	0.47	--	
	9. Repairs - Buildings	1.18	--	0.05	--	
	10. Utilities and Miscellaneous	8.11	--	0.34	--	
	11. Custom Work	8.66	--	0.36	--	
	12. Operating Interest Paid	1.94	--	0.08	--	
	13. Paid Labour	1.74	--	0.07	--	
	14. Unpaid Labour	10.34	--	0.43	--	
	Variable Costs	150.17	0.00	6.24	0.00	
(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--	
	2. Taxes, Water Rates, License & Ins.	4.39	--	0.18	--	
	3. Equipment and Building:	a) Depreciation	21.37	--	0.89	--
		b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	11.31	--	0.47	--	
	Capital Costs	37.07	0.00	1.54	0.00	
(D)	Cash Costs	155.53	--	6.47	--	
(E)	Total Production Costs	187.24	--	7.79	--	
	Gross Margin	25.39	--	1.06	--	
	Return to Unpaid Labour	4.02	--	0.17	--	
	Return to Investment	5.00	--	0.21	--	
	Return to Equity	(6.32)	--	(0.26)	--	

Investment

Buildings	122.94	--
Machinery	155.38	--
Irrigation Machinery	0.00	--
Total (incl. Land)	692.49	--

Management

Average Yield	(Bushel/acre)	24.05	--
Expected Market Price	(\$/Bushel)	5.95	--

2004 Crop Enterprise Analysis

AgriProfit\$

Crop: *Grass Seed - All*
 Soil Zone: *Grey Wooded - Dryland*
 Unit: *Pound*

		----- \$/Acre -----		----- \$/Pound -----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	113.65	179.85	0.50	0.47
	2. Crop Insurance Receipts	0.00	0.00	0.00	0.00
	3. Other Receipts	37.44	55.82	0.16	0.15
Gross Receipts		151.09	235.67	0.66	0.62
(B)	Cost Items				
	1. Seed	2.93	0.00	0.01	0.00
	2. Fertilizer	29.14	17.92	0.13	0.05
	3. Chemical	3.67	0.00	0.02	0.00
	4. Hail/Crop Insurance Premium	1.52	2.28	0.01	0.01
	5. Trucking and Marketing	3.66	1.43	0.02	0.00
	6. Fuel	6.19	4.96	0.03	0.01
	7. Irrigation Fuel and Electricity	0.00	0.00	0.00	0.00
	8. Repairs - Machinery	7.57	4.07	0.03	0.01
	9. Repairs - Buildings	0.94	0.78	0.00	0.00
	10. Utilities and Miscellaneous	14.41	6.17	0.06	0.02
	11. Custom Work	1.60	2.27	0.01	0.01
	12. Operating Interest Paid	5.03	4.68	0.02	0.01
	13. Paid Labour	5.06	2.25	0.02	0.01
	14. Unpaid Labour	7.59	6.25	0.03	0.02
Variable Costs		89.31	53.05	0.39	0.14
(C)	1. Cash/ Share Land Rent	8.28	12.40	0.04	0.03
	2. Taxes, Water Rates, License & Ins.	1.97	1.70	0.01	0.00
	3. Equipment and Building: a) Depreciation	30.02	20.65	0.13	0.05
	b) Lease Payments	0.00	0.00	0.00	0.00
	4. Paid Capital Interest	1.62	0.00	0.01	0.09
Capital Costs		41.89	34.75	0.18	0.18
(D)	Cash Costs (B+C-B14-C3a)	93.59	60.90	0.41	0.25
(E)	Total Production Costs (B+C)	131.20	87.79	0.57	0.32
	Gross Margin (A-D)	57.50	174.77	0.25	0.37
	Return to Unpaid Labour (A-E+B14)	27.48	154.12	0.12	0.31
	Return to Investment (A-E+C4)	21.52	147.88	0.09	0.39
	Return to Equity (A-E)	19.89	147.88	0.09	0.30

Investment

Buildings	82.46	59.26
Machinery	281.55	196.95
Irrigation Machinery	0.00	0.00
Total (incl. Land)	718.13	721.60

Management

Average Yield	(Pound/acre)	229.29	380.14
Expected Market Price	(\$/Pound)	0.50	0.47

2004 Crop Enterprise Analysis

AgriProfit\$

Crop: **Grass Seed - Own**
 Soil Zone: **Grey Wooded - Dryland**
 Unit: **Pound**

		----- \$/Acre -----		----- \$/Pound -----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	78.49	--	0.47	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	36.70	--	0.22	--
	Gross Receipts	115.19	0.00	0.69	0.00
(B)	Cost Items				
	1. Seed	3.92	--	0.02	--
	2. Fertilizer	24.60	--	0.15	--
	3. Chemical	4.92	--	0.03	--
	4. Hail/Crop Insurance Premium	0.00	--	0.00	--
	5. Trucking and Marketing	3.63	--	0.02	--
	6. Fuel	6.44	--	0.04	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	7.94	--	0.05	--
	9. Repairs - Buildings	0.98	--	0.01	--
	10. Utilities and Miscellaneous	17.12	--	0.10	--
	11. Custom Work	0.12	--	0.00	--
	12. Operating Interest Paid	6.73	--	0.04	--
	13. Paid Labour	4.77	--	0.03	--
14. Unpaid Labour	6.82	--	0.04	--	
	Variable Costs	87.99	0.00	0.53	0.00
(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	1.49	--	0.01	--
	3. Equipment and Building: a) Depreciation	32.57	--	0.19	--
	b) Lease Payments	0.00	--	0.00	--
4. Paid Capital Interest	2.18	--	0.01	--	
	Capital Costs	36.24	0.00	0.22	0.00
(D)	Cash Costs (B+C-B14-C3a)	84.84	--	0.51	--
(E)	Total Production Costs (B+C)	124.23	--	0.74	--
	Gross Margin (A-D)	30.36	--	0.18	--
	Return to Unpaid Labour (A-E+B14)	(2.22)	--	(0.01)	--
	Return to Investment (A-E+C4)	(6.86)	--	(0.04)	--
	Return to Equity (A-E)	(9.03)	--	(0.05)	--

Investment

Buildings	74.46	--
Machinery	318.23	--
Irrigation Machinery	0.00	--
Total (incl. Land)	866.95	--

Management

Average Yield (Pound/acre)	167.06	--
Expected Market Price (\$/Pound)	0.47	--

2004 Crop Enterprise Analysis

AgriProfit\$

Crop: *Alfalfa/Grass Hay - All*
 Soil Zone: *Grey Wooded - Dryland*
 Unit: *Tonne*

		----- \$/Acre -----		----- \$/Tonne -----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	64.16	54.44	51.16	65.69
	2. Crop Insurance Receipts	0.00	0.00	0.00	0.00
	3. Other Receipts	5.70	12.69	4.55	15.32
Gross Receipts		69.86	67.14	55.70	81.01
(B)	Cost Items				
	1. Seed	0.00	0.00	0.00	0.00
	2. Fertilizer	12.42	1.64	9.90	1.98
	3. Chemical	0.00	0.00	0.00	0.00
	4. Hail/Crop Insurance Premium	0.58	1.94	0.46	2.34
	5. Trucking and Marketing	0.00	0.00	0.00	0.00
	6. Fuel	6.98	5.44	5.57	6.56
	7. Irrigation Fuel and Electricity	0.00	0.00	0.00	0.00
	8. Repairs - Machinery	2.87	1.87	2.29	2.26
	9. Repairs - Buildings	1.01	0.37	0.81	0.44
	10. Utilities and Miscellaneous	5.29	3.83	4.22	4.62
	11. Custom Work	0.00	0.00	0.00	0.00
	12. Operating Interest Paid	8.48	0.00	6.76	0.00
	13. Paid Labour	0.38	1.26	0.30	1.52
	14. Unpaid Labour	8.80	6.57	7.01	7.92
Variable Costs		46.80	22.91	37.32	27.64
(C)	1. Cash/ Share Land Rent	0.00	0.00	0.00	0.00
	2. Taxes, Water Rates, License & Ins.	2.21	3.76	1.76	4.54
	3. Equipment and Building: a) Depreciation	16.68	10.81	13.30	13.04
	b) Lease Payments	0.00	0.00	0.00	0.00
	4. Paid Capital Interest	0.00	0.00	0.00	17.59
Capital Costs		18.89	14.57	15.06	35.17
(D)	Cash Costs (B+C-B14-C3a)	40.22	20.10	32.06	41.84
(E)	Total Production Costs (B+C)	65.69	37.48	52.38	62.81
	Gross Margin (A-D)	29.65	47.03	23.64	39.17
	Return to Unpaid Labour (A-E+B14)	12.96	36.22	10.34	26.12
	Return to Investment (A-E+C4)	4.17	29.66	3.32	35.79
	Return to Equity (A-E)	4.17	29.66	3.32	18.20

Investment

Buildings	44.07	38.59
Machinery	145.74	89.70
Irrigation Machinery	0.00	0.00
Total (incl. Land)	762.89	582.14

Management

Average Yield (Tonne/acre)	1.25	0.83
Expected Market Price (\$/Tonne)	51.16	65.69

2004 Crop Enterprise Analysis

AgriProfit\$

Crop: *Alfalfa/Grass Hay - Own*
 Soil Zone: *Grey Wooded - Dryland*
 Unit: *Tonne*

		----- \$/Acre -----		----- \$/Tonne -----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	64.16	54.44	51.16	65.69
	2. Crop Insurance Receipts	0.00	0.00	0.00	0.00
	3. Other Receipts	5.70	12.69	4.55	15.32
Gross Receipts		69.86	67.14	55.70	81.01
(B)	Cost Items				
	1. Seed	0.00	0.00	0.00	0.00
	2. Fertilizer	12.42	1.64	9.90	1.98
	3. Chemical	0.00	0.00	0.00	0.00
	4. Hail/Crop Insurance Premium	0.58	1.94	0.46	2.34
	5. Trucking and Marketing	0.00	0.00	0.00	0.00
	6. Fuel	6.98	5.44	5.57	6.56
	7. Irrigation Fuel and Electricity	0.00	0.00	0.00	0.00
	8. Repairs - Machinery	2.87	1.87	2.29	2.26
	9. Repairs - Buildings	1.01	0.37	0.81	0.44
	10. Utilities and Miscellaneous	5.29	3.83	4.22	4.62
	11. Custom Work	0.00	0.00	0.00	0.00
	12. Operating Interest Paid	8.48	0.00	6.76	0.00
	13. Paid Labour	0.38	1.26	0.30	1.52
	14. Unpaid Labour	8.80	6.57	7.01	7.92
Variable Costs		46.80	22.91	37.32	27.64
(C)	1. Cash/ Share Land Rent	0.00	0.00	0.00	0.00
	2. Taxes, Water Rates, License & Ins.	2.21	3.76	1.76	4.54
	3. Equipment and Building: a) Depreciation	16.68	10.81	13.30	13.04
	b) Lease Payments	0.00	0.00	0.00	0.00
	4. Paid Capital Interest	0.00	0.00	0.00	17.59
Capital Costs		18.89	14.57	15.06	35.17
(D)	Cash Costs (B+C-B14-C3a)	40.22	20.10	32.06	41.84
(E)	Total Production Costs (B+C)	65.69	37.48	52.38	62.81
	Gross Margin (A-D)	29.65	47.03	23.64	39.17
	Return to Unpaid Labour (A-E+B14)	12.96	36.22	10.34	26.12
	Return to Investment (A-E+C4)	4.17	29.66	3.32	35.79
	Return to Equity (A-E)	4.17	29.66	3.32	18.20

Investment

Buildings	44.07	38.59
Machinery	145.74	89.70
Irrigation Machinery	0.00	0.00
Total (incl. Land)	762.89	582.14

Management

Average Yield (Tonne/acre)	1.25	0.83
Expected Market Price (\$/Tonne)	51.16	65.69

2004 Crop Enterprise Analysis

AgriProfit\$

Crop: *Grain Silage - All*
 Soil Zone: *Grey Wooded - Dryland*
 Unit: *Tonne*

		----- \$/Acre -----		----- \$/Tonne -----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	192.61	--	37.27	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	0.78	--	0.15	--
	Gross Receipts	193.39	0.00	37.42	0.00
(B)	Cost Items				
	1. Seed	9.34	--	1.81	--
	2. Fertilizer	32.20	--	6.23	--
	3. Chemical	8.25	--	1.60	--
	4. Hail/Crop Insurance Premium	4.46	--	0.86	--
	5. Trucking and Marketing	1.09	--	0.21	--
	6. Fuel	17.14	--	3.32	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	3.62	--	0.70	--
	9. Repairs - Buildings	0.40	--	0.08	--
	10. Utilities and Miscellaneous	3.68	--	0.71	--
	11. Custom Work	29.97	--	5.80	--
	12. Operating Interest Paid	0.20	--	0.04	--
	13. Paid Labour	4.68	--	0.91	--
	14. Unpaid Labour	3.69	--	0.71	--
	Variable Costs	118.72	0.00	22.97	0.00
(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	2.82	--	0.55	--
	3. Equipment and Building: a) Depreciation	16.48	--	3.19	--
	b) Lease Payments	0.00	--	0.00	--
4. Paid Capital Interest	2.49	--	0.48	--	
	Capital Costs	21.80	0.00	4.22	0.00
(D)	Cash Costs (B+C-B14-C3a)	120.35	--	23.29	--
(E)	Total Production Costs (B+C)	140.52	--	27.19	--
	Gross Margin (A-D)	73.04	--	14.13	--
	Return to Unpaid Labour (A-E+B14)	56.55	--	10.94	--
	Return to Investment (A-E+C4)	55.36	--	10.71	--
	Return to Equity (A-E)	52.87	--	10.23	--

Investment

Buildings	39.67	--
Machinery	142.96	--
Irrigation Machinery	0.00	--
Total (incl. Land)	871.52	--

Management

Average Yield (Tonne/acre)	5.17	--
Expected Market Price (\$/Tonne)	37.27	--

FREQUENCY AND CUMULATIVE FREQUENCY DISTRIBUTION

Distribution charts organize data into pictures, which is a format that the human processing system (the brain) can better understand. Frequency distributions relate the percentage (or number) of observations falling in a specific range. Cumulative frequency distribution displays the same information as frequency distribution, but it is expressed as a “rate of change” (i.e. the steeper the slope the greater the change). Cumulative frequency also illustrates how many observations lie above or below certain values, rather than only recording the number of items within the intervals.

The frequency information in this benchmark report provides an indication of how crops performed, on a field-by-field basis, within the *AgriProfit\$* pool. Looking forward, this information can be used to evaluate how and why this crop might be included in future cropping plans based on these types of frequencies. In the following discussions, the spring wheat frequency distribution charts are used as an example of how to interpret the frequency information.

The first pair of charts provides the distribution of the spring wheat yield range in the Peace Grey-Wooded soil zone. From these charts a lot can be interpreted about yield performance:

- The low is less than 20 bushels per acre and the high is less than 50 bushels per acre, and
- Approximately 55% of the spring wheat fields in the peace grey-wooded soil zone yield more than 35 bushels per acre

This detailed information provides a better understanding of yield variability. The average yield is 38.81 bushels per acre as listed on page 7 of the spring wheat crop analysis. While the average (or mean) is important, consideration of both the mean and variability ultimately sets the stage for good decision-making and management practices.

The second set of graphs focuses on the distribution of cost totals. Understanding these provides a basis for cost control and managing for yield per dollar invested. It is important to look at cash costs for individual field analysis (as an indication of cash flow pressure points). Cash costs include all cash expenses accrued to the production of that crop. Total production costs are important when assessing all crops together for an overall enterprise analysis, relating the longer term cost efficiency of each crop and the combined crop mix. Total production costs include the non-cash elements of unpaid labour and depreciation, in addition to cash costs. Looking at the charts, if the price of spring wheat was \$3 per bushel, then 15% of the fields are covering their cash costs and 10% of the fields are covering their total production costs. In the long run, the best mix of crops would cover total production costs and give a positive net return per acre.

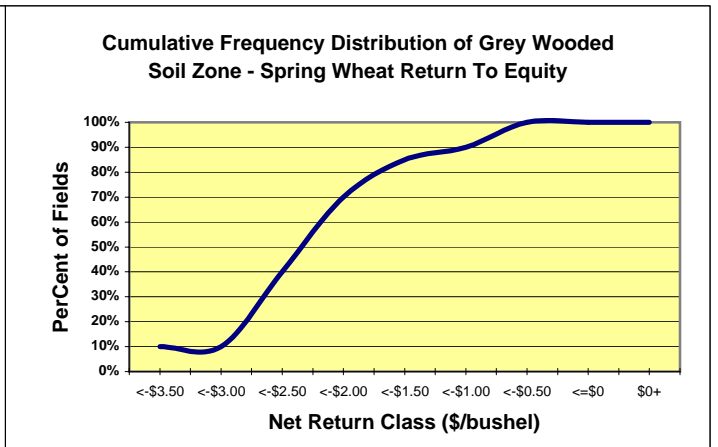
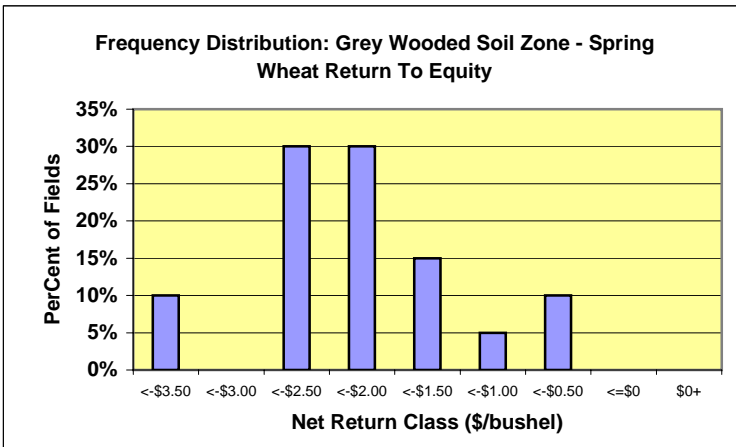
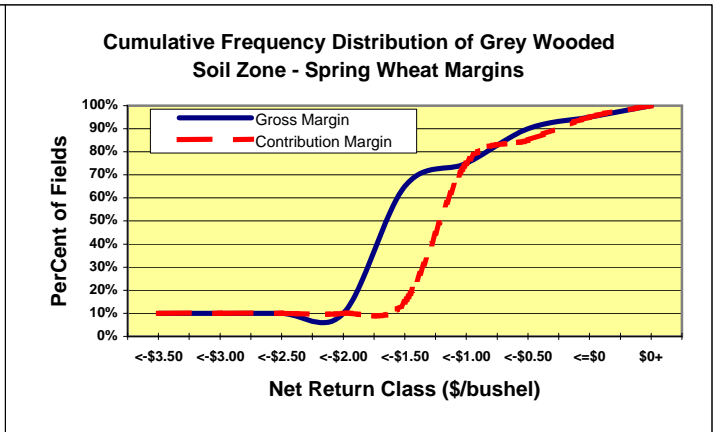
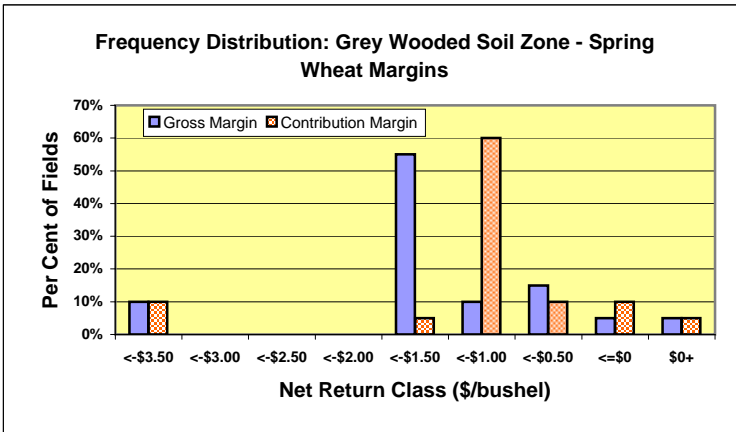
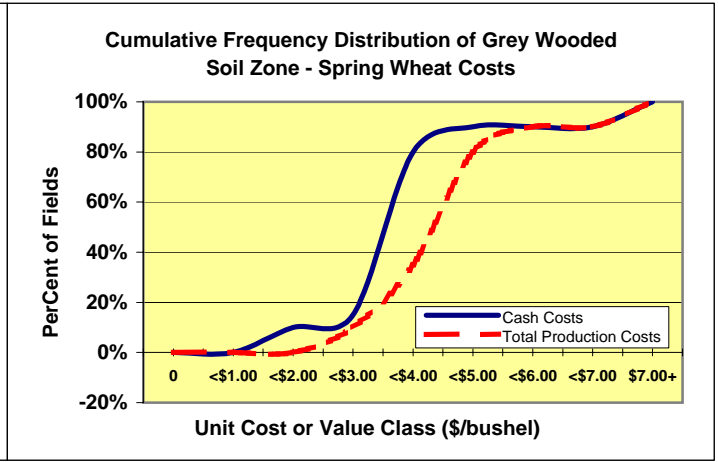
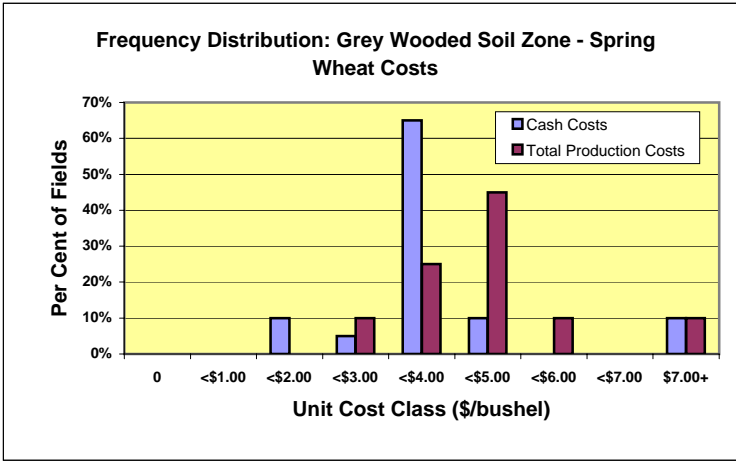
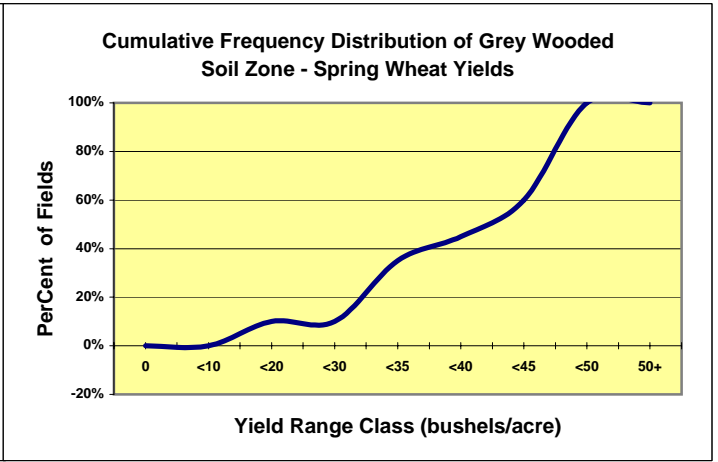
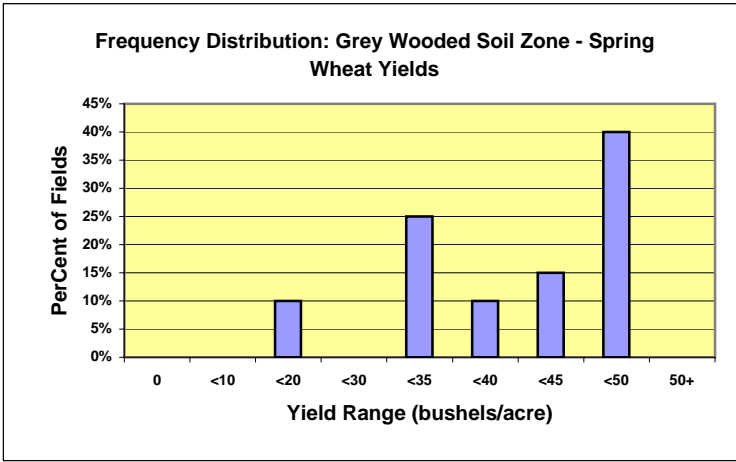
The third set of graphs highlights contribution and gross margins. Contribution margin is the return over variable costs, which are a combination of variable cash and non-cash (unpaid labour) costs. It is the best single indicator of profitability at the individual field level and it is used to compare and select crops to grow regardless of the fields being owned or rented. The first objective in setting up a crop plan is to select crops with a positive contribution margin; this will identify the most profitable crop mix over the long term. Gross margin is the return over total cash costs, which include fixed costs (land rent, taxes, water rights, licenses and capital

interest). It is valuable in predicting each crop's ability to generate cash flow for the year. From a cash flow point of view, the gross margin provides an indication of the crop's ability to contribute to principal payments and operator withdrawals. From a profitability perspective, gross margin is what is leftover to cover the non-cash costs and provide a return on investment.

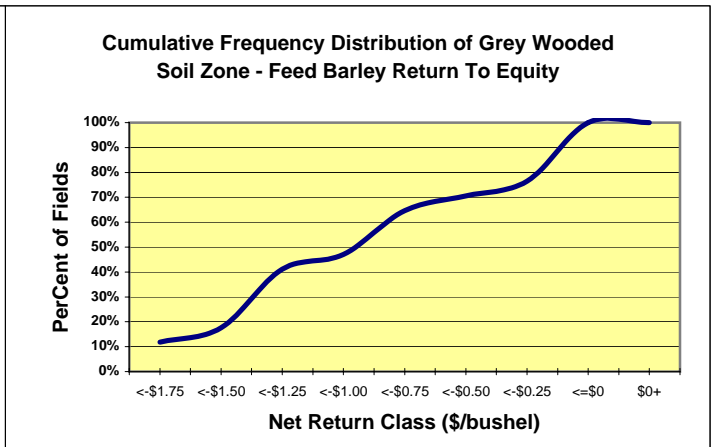
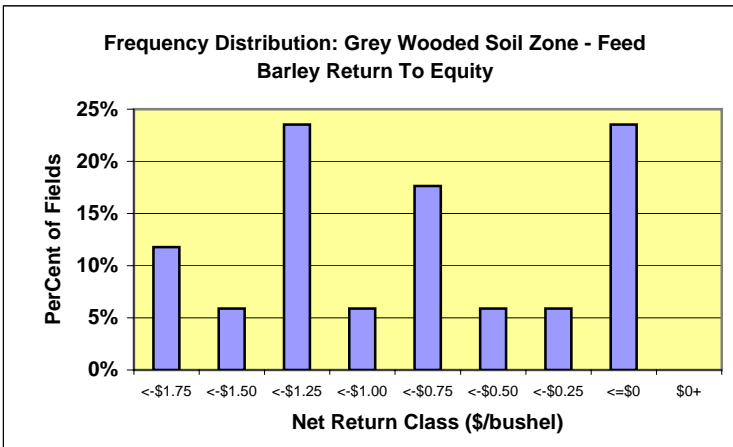
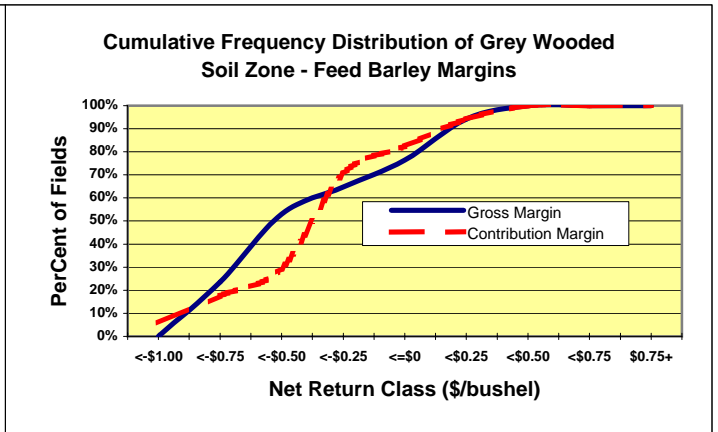
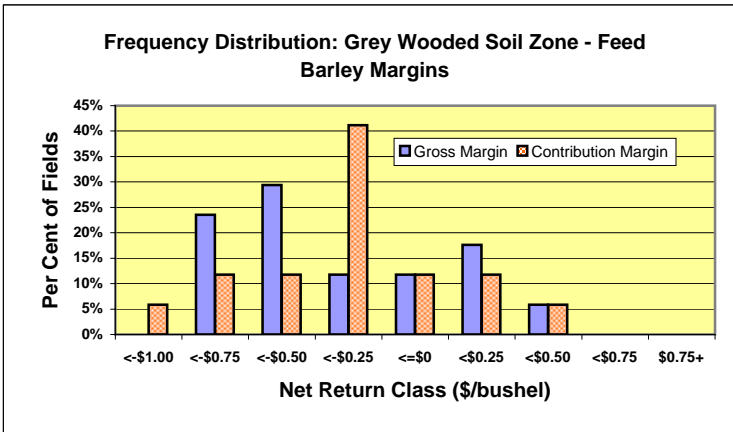
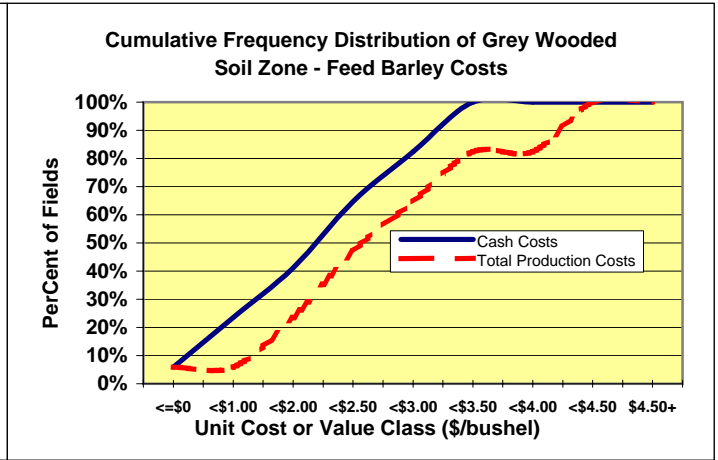
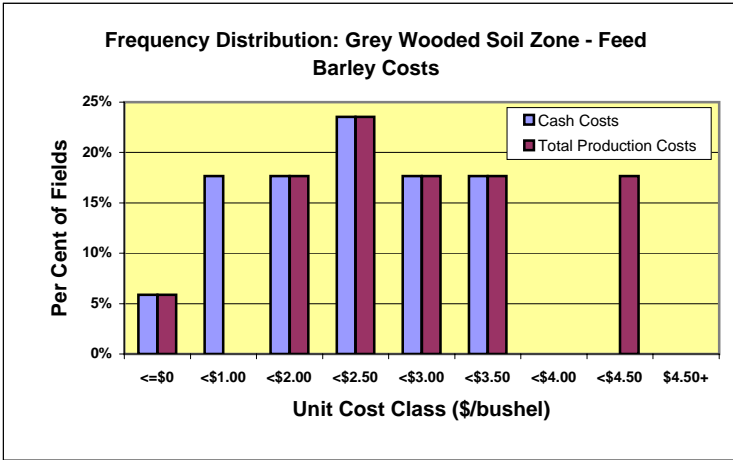
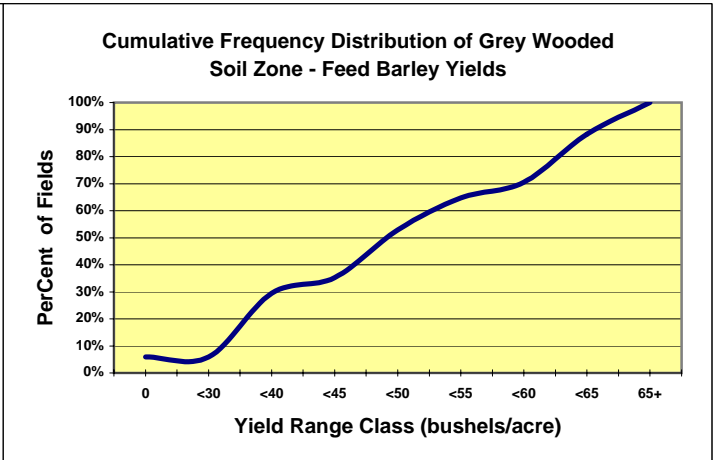
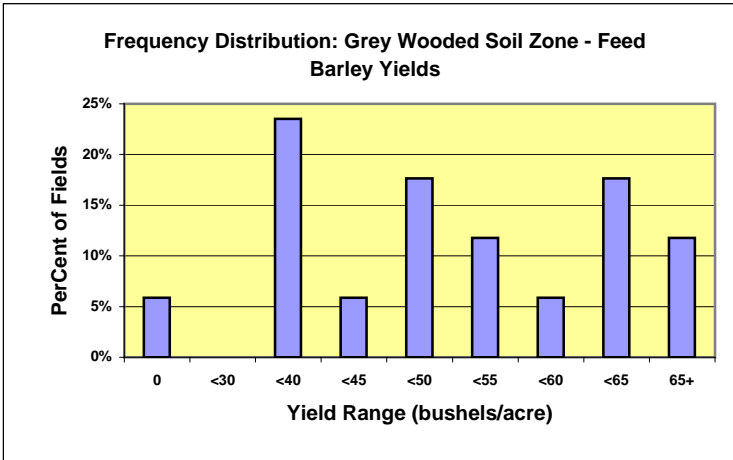
The final set of graphs shows the distribution of returns to equity, or profit per unit of production. This example shows that 100% of the fields had a loss and 0% of the fields at least broke even. Return to equity can be used to compare the profitability of one crop versus another or one farm enterprise to another in the same industry.

Understanding these concepts in *AgriProfit\$* and evaluating historical performance on a per bushel basis can be very useful for other AAFRD applications. For example, [CropChoice\\$](#) is a tool that combines traditional crop planning with the ability to measure the riskiness of your plan. Producers can then creatively evaluate potential risk management strategies.

Grey Wooded Soil Zone - Spring Wheat: 2004

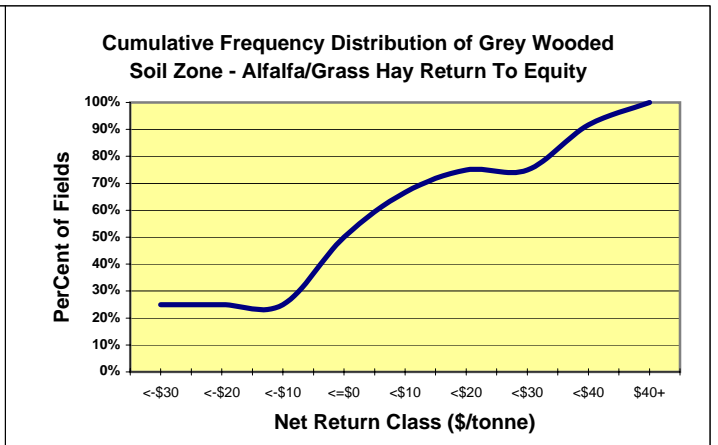
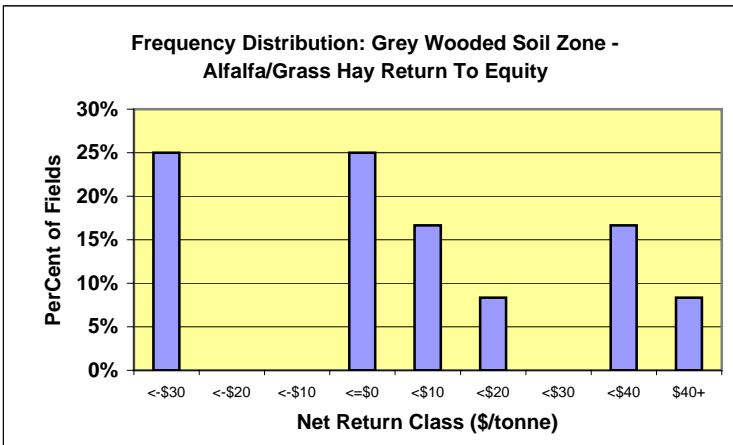
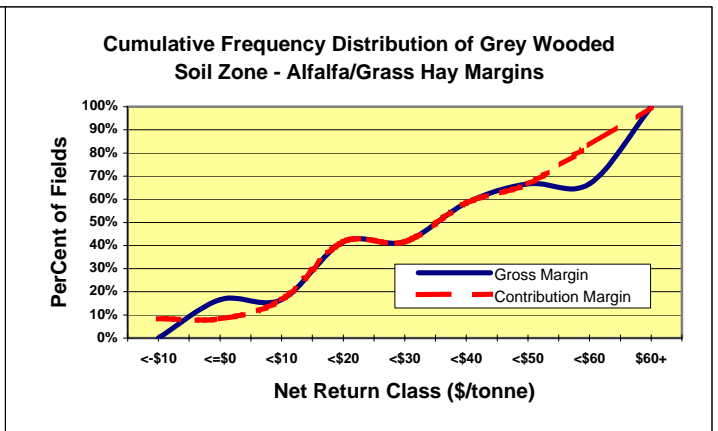
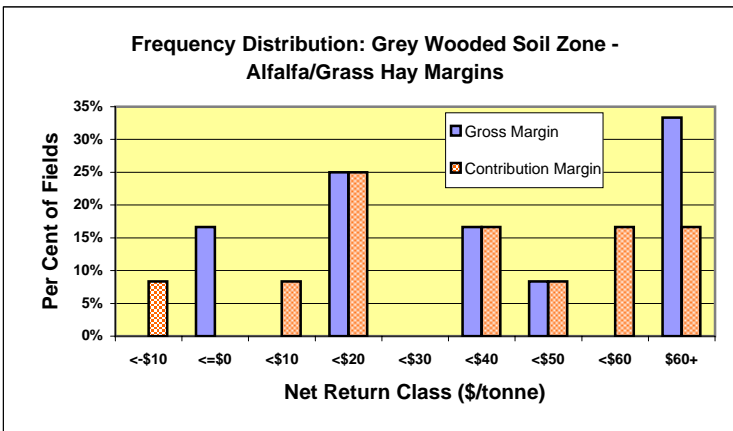
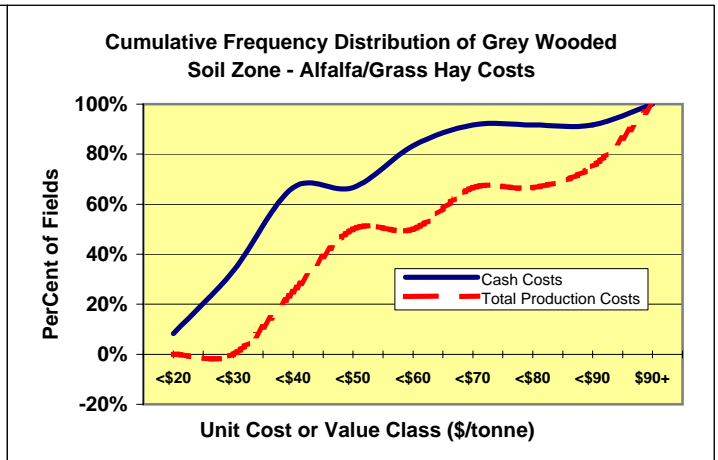
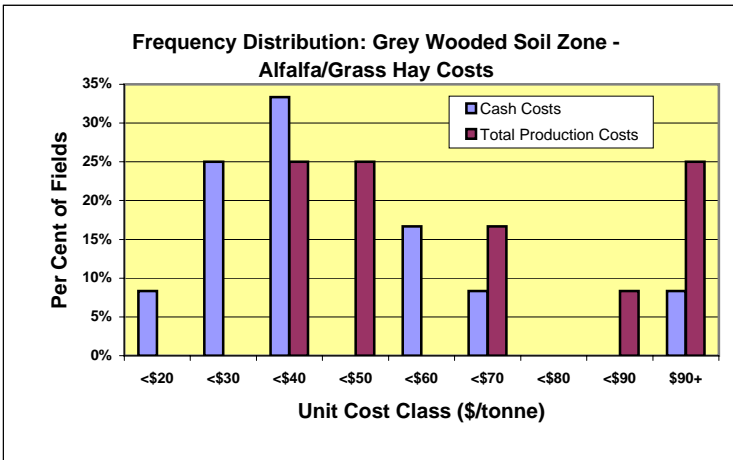
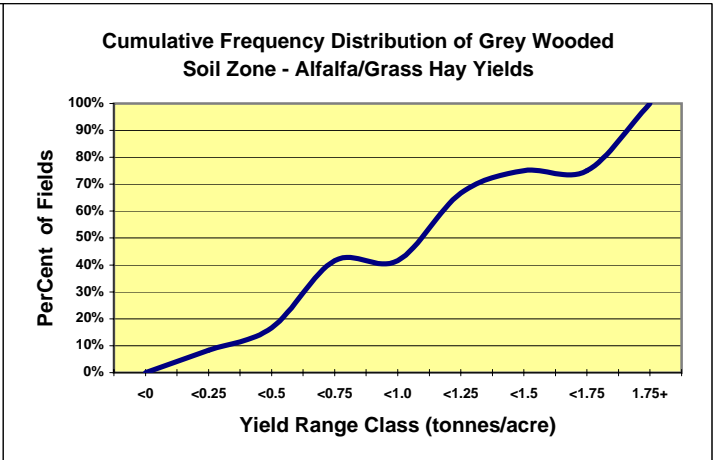
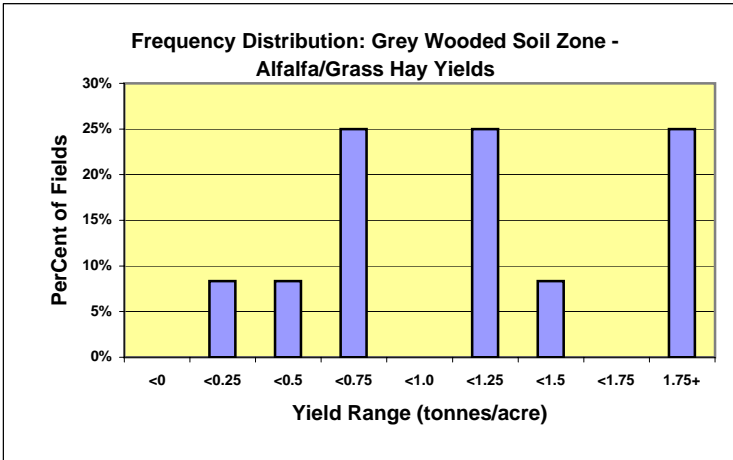


Grey Wooded Soil Zone - Feed Barley: 2004



Grey Wooded Soil Zone - Alfalfa/Grass Hay: 2004

AgriProfit[®]



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