

AgriProfit\$

**Cost and Return Profiles for
Selected Crops, 2005
*Peace Region***

July, 2007

Alberta Agriculture and Food



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2005 Peace Region Grey-Wooded Soil Zone

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OVERVIEW

2005 Peace Region 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 and Food (AF) 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 Region of the 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 Region of the Grey-Wooded Soil Zone areas in 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 2005 program season.

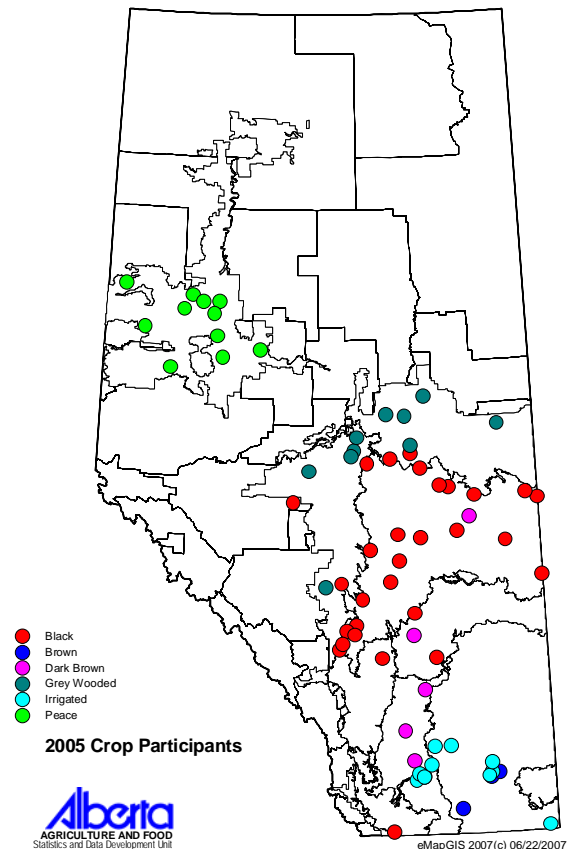
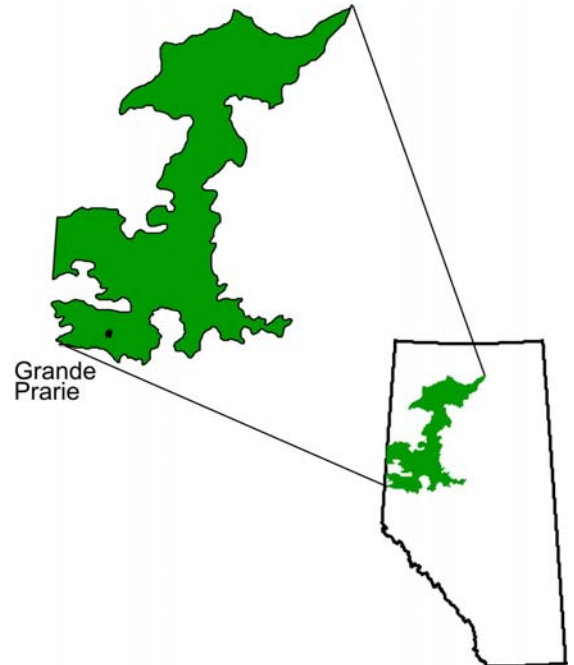
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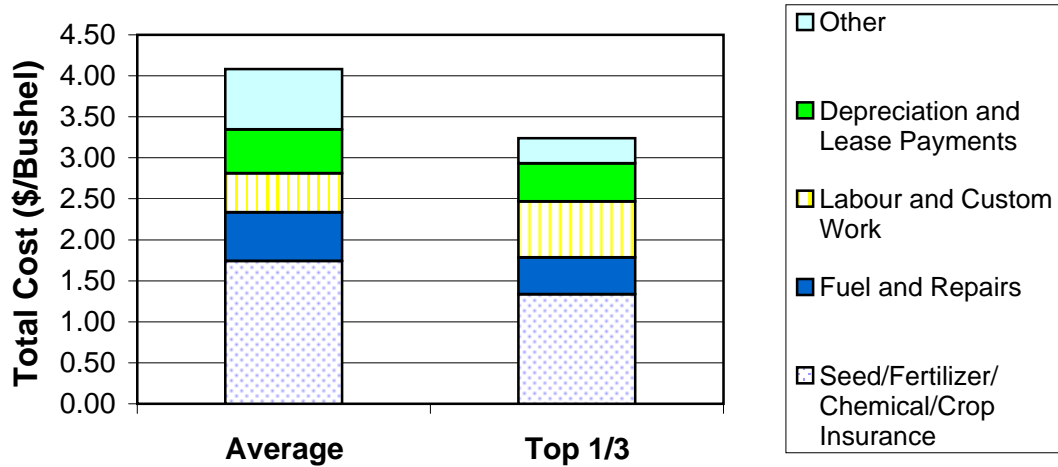
Or call the Alberta Ag-Info Centre
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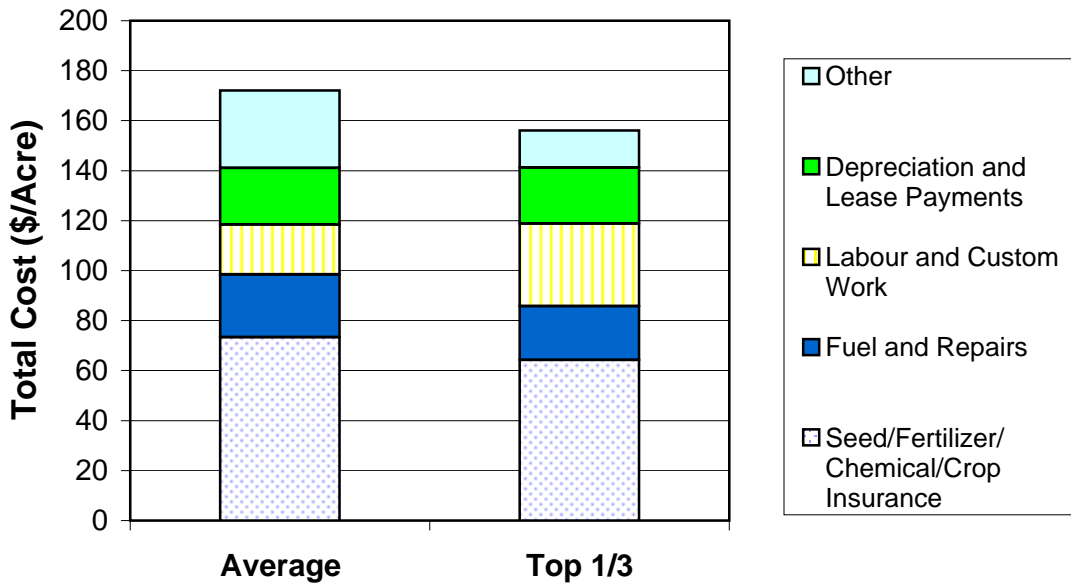
Renn Breikreuz, Dale Kaliel, Pauline Van Biert, Shukun Guan, Guangzhi Liu, Nabi Chaudhary, Richard Stadlwieser, Interviewers and Participants



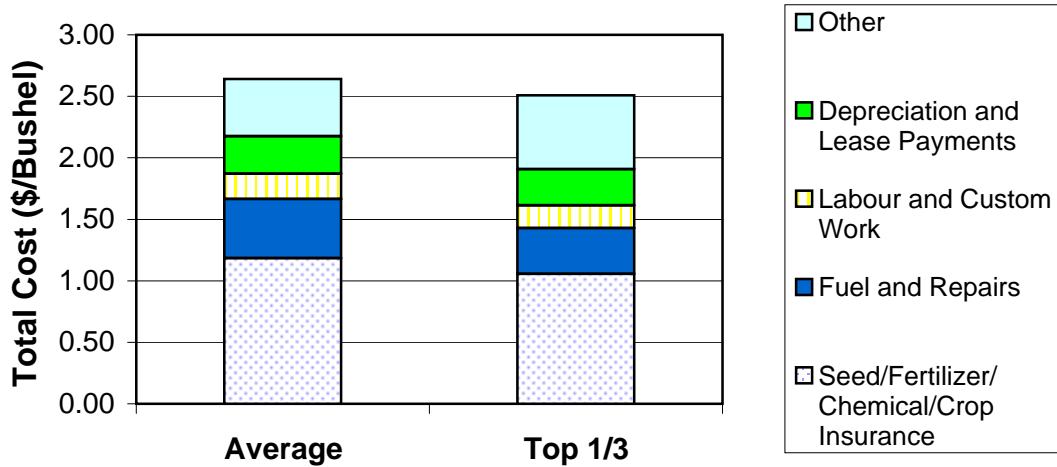
2005 Spring Wheat on Peace Region Soil Zone



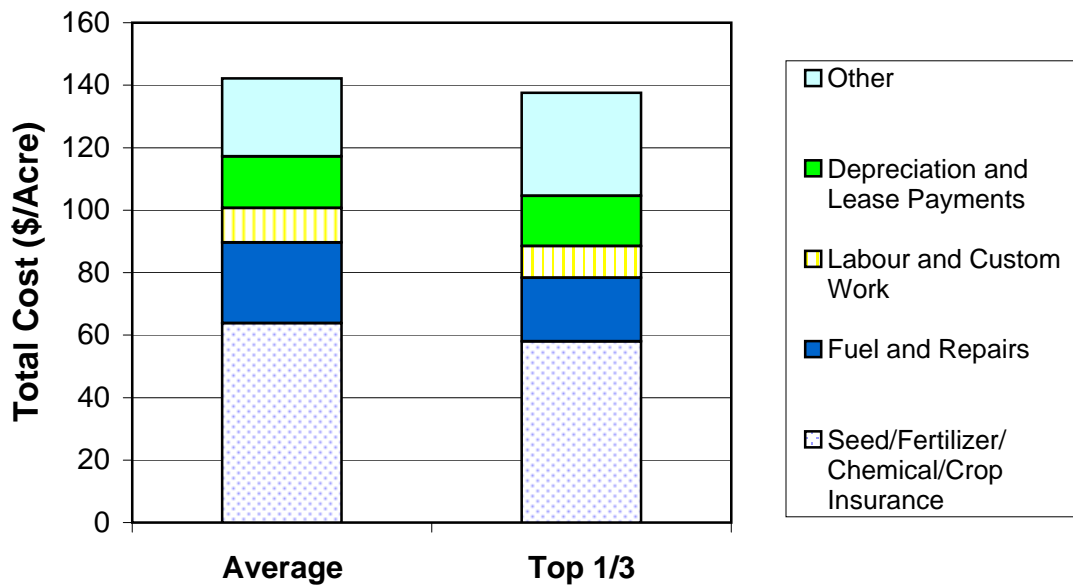
2005 Spring Wheat on Peace Region Soil Zone



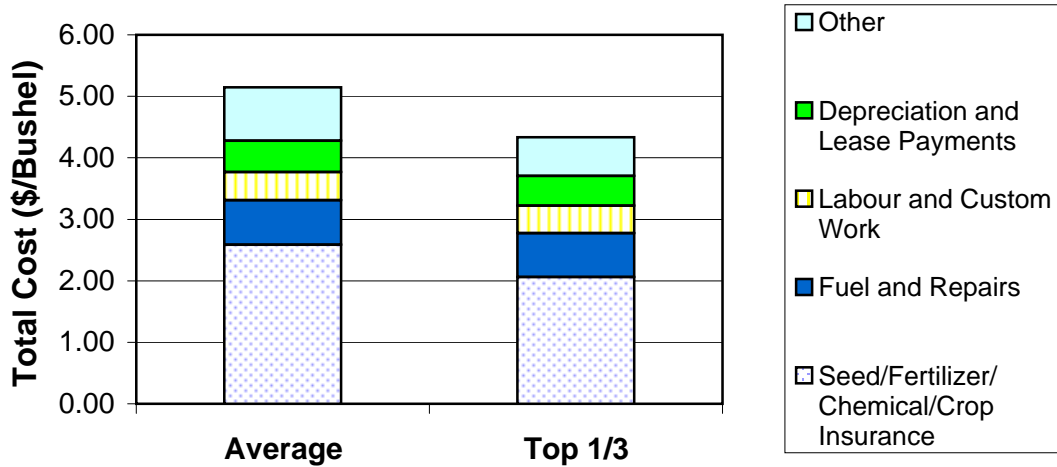
2005 Feed Barley on Peace Region Soil Zone



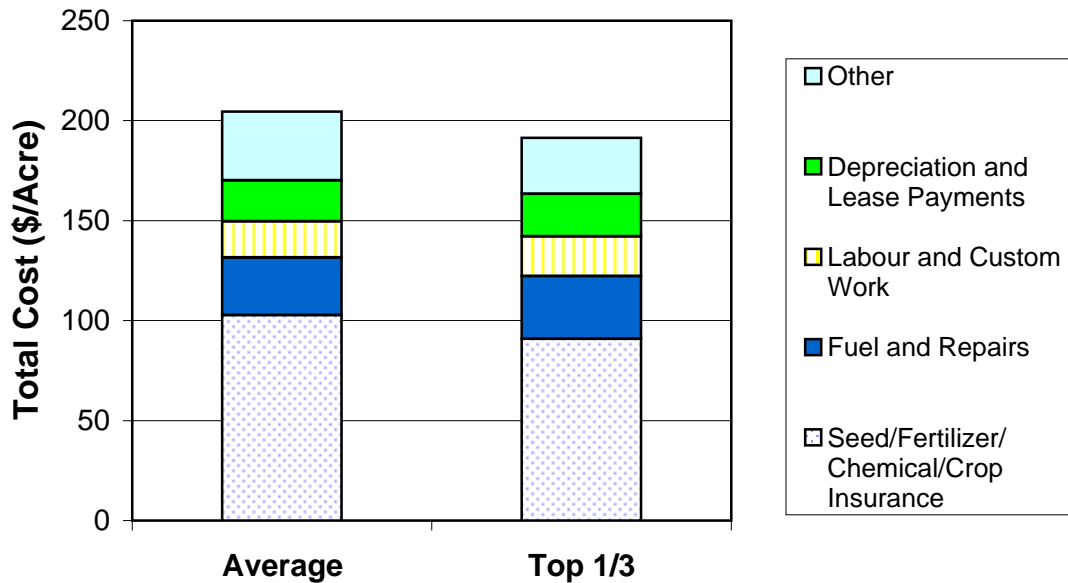
2005 Feed Barley on Peace Region Soil Zone



2005 Roundup Ready Canola on Peace Region Soil Zone



2005 Roundup Ready Canola on Peace Region Soil Zone



2005 Crop Enterprise Analysis

AgriProfit®

Crop: *Spring Wheat - All*
Soil Zone: *Peace Region - Dryland - Stubble*
Unit: *Bushel*

		----- \$/Acre -----		---- \$/Bushel ----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	116.10	146.66	2.75	3.04
	2. Crop Insurance Receipts	5.09	15.38	0.12	0.32
	3. Other Receipts	1.80	1.13	0.04	0.02
	Gross Receipts	122.99	163.17	2.92	3.39
(B)	Cost Items				
	1. Seed	9.53	5.48	0.23	0.11
	2. Fertilizer	39.07	32.73	0.93	0.68
	3. Chemical	22.55	23.54	0.53	0.49
	4. Hail/Crop Insurance Premium	2.24	2.55	0.05	0.05
	5. Trucking and Marketing	1.53	0.12	0.04	0.00
	6. Fuel	11.62	14.58	0.28	0.30
	7. Irrigation Fuel and Electricity	0.00	0.00	0.00	0.00
	8. Repairs - Machinery	12.38	6.72	0.29	0.14
	9. Repairs - Buildings	1.01	0.24	0.02	0.00
	10. Utilities and Miscellaneous	9.28	4.80	0.22	0.10
	11. Custom Work	4.94	11.80	0.12	0.24
	12. Operating Interest Paid	1.62	0.05	0.04	0.00
	13. Paid Labour	3.37	3.46	0.08	0.07
	14. Unpaid Labour	11.75	17.68	0.28	0.37
	Variable Costs	130.90	123.75	3.11	2.57
(C)	1. Cash/ Share Land Rent	9.43	5.15	0.22	0.11
	2. Taxes, Water Rates, License & Ins.	4.07	4.21	0.10	0.09
	3. Equipment and Building: a) Depreciation	22.60	22.51	0.54	0.47
	b) Lease Payments	0.00	0.00	0.00	0.00
4. Paid Capital Interest	5.11	0.47	0.12	0.67	
	Capital Costs	41.21	32.33	0.98	1.33
(D)	Cash Costs (B+C-B14-C3a)	137.75	115.89	3.27	3.07
(E)	Total Production Costs (B+C)	172.10	156.08	4.08	3.90
	Gross Margin (A-D)	(14.76)	47.28	(0.35)	0.32
	Return to Unpaid Labour (A-E+B14)	(37.36)	24.77	(0.89)	(0.15)
	Return to Investment (A-E+C4)	(44.00)	7.55	(1.04)	0.16
	Return to Equity (A-E)	(49.11)	7.09	(1.17)	(0.51)

Investment

Buildings	89.11	75.13
Machinery	192.66	207.99
Irrigation Machinery	0.00	0.00
Total (incl. Land)	689.64	593.63

Management

Average Yield	(Bushel/acre)	42.15	48.18
Expected Market Price	(\$/Bushel)	2.75	3.04

2005 Crop Enterprise Analysis

AgriProfit\$

Crop: *Spring Wheat - Own*
Soil Zone: *Peace Region - Dryland - Stubble*
Unit: *Bushel*

		----- \$/Acre -----		---- \$/Bushel ----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	95.41	--	2.71	--	
	2. Crop Insurance Receipts	9.08	--	0.26	--	
	3. Other Receipts	0.39	--	0.01	--	
	Gross Receipts	104.89	0.00	2.98	0.00	
(B)	Cost Items					
	1. Seed	9.44	--	0.27	--	
	2. Fertilizer	30.20	--	0.86	--	
	3. Chemical	20.78	--	0.59	--	
	4. Hail/Crop Insurance Premium	4.00	--	0.11	--	
	5. Trucking and Marketing	0.81	--	0.02	--	
	6. Fuel	12.18	--	0.35	--	
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--	
	8. Repairs - Machinery	17.82	--	0.51	--	
	9. Repairs - Buildings	1.18	--	0.03	--	
	10. Utilities and Miscellaneous	11.48	--	0.33	--	
	11. Custom Work	7.81	--	0.22	--	
	12. Operating Interest Paid	2.88	--	0.08	--	
	13. Paid Labour	1.54	--	0.04	--	
	14. Unpaid Labour	10.47	--	0.30	--	
Variable Costs	130.59	0.00	3.71	0.00		
(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--	
	2. Taxes, Water Rates, License & Ins.	4.99	--	0.14	--	
	3. Equipment and Building:	a) Depreciation	19.58	--	0.56	--
		b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	9.06	--	0.26	--	
Capital Costs	33.63	0.00	0.96	0.00		
(D)	Cash Costs	134.18	--	3.81	--	
(E)	Total Production Costs	164.22	--	4.66	--	
	Gross Margin	(29.29)	--	(0.83)	--	
	Return to Unpaid Labour	(48.87)	--	(1.39)	--	
	Return to Investment	(50.27)	--	(1.43)	--	
	Return to Equity	(59.34)	--	(1.69)	--	

Investment

Buildings	79.02	--
Machinery	172.82	--
Irrigation Machinery	0.00	--
Total (incl. Land)	980.03	--

Management

Average Yield	(Bushel/acre)	35.21	--
Expected Market Price	(\$/Bushel)	2.71	--

2005 Crop Enterprise Analysis

AgriProfit\$

Crop: *Spring Wheat - Rent*
Soil Zone: *Peace Region - Dryland - Stubble*
Unit: *Bushel*

		----- \$/Acre -----		---- \$/Bushel ----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	142.45	--	2.79	--	
	2. Crop Insurance Receipts	0.00	--	0.00	--	
	3. Other Receipts	3.59	--	0.07	--	
	Gross Receipts	146.04	0.00	2.86	0.00	
(B)	Cost Items					
	1. Seed	9.65	--	0.19	--	
	2. Fertilizer	50.37	--	0.99	--	
	3. Chemical	24.80	--	0.49	--	
	4. Hail/Crop Insurance Premium	0.00	--	0.00	--	
	5. Trucking and Marketing	2.45	--	0.05	--	
	6. Fuel	10.90	--	0.21	--	
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--	
	8. Repairs - Machinery	5.45	--	0.11	--	
	9. Repairs - Buildings	0.80	--	0.02	--	
	10. Utilities and Miscellaneous	6.48	--	0.13	--	
	11. Custom Work	1.28	--	0.03	--	
	12. Operating Interest Paid	0.02	--	0.00	--	
	13. Paid Labour	5.71	--	0.11	--	
	14. Unpaid Labour	13.39	--	0.26	--	
Variable Costs	131.29	0.00	2.57	0.00		
(C)	1. Cash/ Share Land Rent	21.43	--	0.42	--	
	2. Taxes, Water Rates, License & Ins.	2.91	--	0.06	--	
	3. Equipment and Building:	a) Depreciation	26.44	--	0.52	--
		b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	0.07	--	0.00	--	
Capital Costs	50.85	0.00	1.00	0.00		
(D)	Cash Costs	(B+C-B14-C3a)	142.30	--	2.79	
(E)	Total Production Costs	(B+C)	182.14	--	3.57	
	Gross Margin	(A-D)	3.74	--	0.07	
	Return to Unpaid Labour	(A-E+B14)	(22.70)	--	(0.45)	
	Return to Investment	(A-E+C4)	(36.02)	--	(0.71)	
	Return to Equity	(A-E)	(36.10)	--	(0.71)	

Investment

Buildings	101.96	--
Machinery	217.92	--
Irrigation Machinery	0.00	--
Total (incl. Land)	319.89	--

Management

Average Yield	(Bushel/acre)	51.00	--
Expected Market Price	(\$/Bushel)	2.79	--

2005 Crop Enterprise Analysis

AgriProfit\$

Crop: *Feed Barley - All*
Soil Zone: *Peace Region - Dryland - Stubble*
Unit: *Bushel*

		----- \$/Acre -----		---- \$/Bushel ----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	93.22	97.31	1.73	1.77
	2. Crop Insurance Receipts	0.00	0.00	0.00	0.00
	3. Other Receipts	13.49	21.49	0.25	0.39
Gross Receipts		106.71	118.80	1.98	2.17
(B)	Cost Items				
	1. Seed	7.72	7.38	0.14	0.13
	2. Fertilizer	30.86	25.63	0.57	0.47
	3. Chemical	21.96	22.47	0.41	0.41
	4. Hail/Crop Insurance Premium	3.22	2.47	0.06	0.04
	5. Trucking and Marketing	1.60	2.30	0.03	0.04
	6. Fuel	11.64	9.89	0.22	0.18
	7. Irrigation Fuel and Electricity	0.00	0.00	0.00	0.00
	8. Repairs - Machinery	13.31	10.37	0.25	0.19
	9. Repairs - Buildings	0.95	0.12	0.02	0.00
	10. Utilities and Miscellaneous	7.35	9.90	0.14	0.18
	11. Custom Work	2.81	1.72	0.05	0.03
	12. Operating Interest Paid	0.45	0.82	0.01	0.01
	13. Paid Labour	0.63	1.03	0.01	0.02
	14. Unpaid Labour	7.61	7.45	0.14	0.14
Variable Costs		110.13	101.53	2.05	1.85
(C)	1. Cash/ Share Land Rent	7.14	13.72	0.13	0.25
	2. Taxes, Water Rates, License & Ins.	2.07	1.83	0.04	0.03
	3. Equipment and Building: a) Depreciation	15.46	16.10	0.29	0.29
	b) Lease Payments	0.98	0.00	0.02	0.00
	4. Paid Capital Interest	6.38	4.43	0.12	0.66
Capital Costs		32.03	36.08	0.59	1.23
(D)	Cash Costs (B+C-B14-C3a)	119.08	114.06	2.21	2.66
(E)	Total Production Costs (B+C)	142.16	137.61	2.64	3.09
	Gross Margin (A-D)	(12.37)	4.74	(0.23)	(0.49)
	Return to Unpaid Labour (A-E+B14)	(27.83)	(11.36)	(0.52)	(0.78)
	Return to Investment (A-E+C4)	(29.07)	(14.38)	(0.54)	(0.26)
	Return to Equity (A-E)	(35.44)	(18.81)	(0.66)	(0.92)

Investment

Buildings	45.65	50.15
Machinery	143.01	147.27
Irrigation Machinery	0.00	0.00
Total (incl. Land)	345.56	295.85

Management

Average Yield (Bushel/acre)	53.85	54.84
Expected Market Price (\$/Bushel)	1.73	1.77

2005 Crop Enterprise Analysis

AgriProfit®

Crop: *Feed Barley - Own*
Soil Zone: *Peace Region - Dryland - Stubble*
Unit: *Bushel*

		----- \$/Acre -----		----- \$/Bushel -----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	91.42	--	1.70	--	
	2. Crop Insurance Receipts	0.00	--	0.00	--	
	3. Other Receipts	15.11	--	0.28	--	
	Gross Receipts	106.53	0.00	1.98	0.00	
(B)	Cost Items					
	1. Seed	7.47	--	0.14	--	
	2. Fertilizer	34.45	--	0.64	--	
	3. Chemical	18.00	--	0.33	--	
	4. Hail/Crop Insurance Premium	3.47	--	0.06	--	
	5. Trucking and Marketing	1.03	--	0.02	--	
	6. Fuel	13.19	--	0.24	--	
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--	
	8. Repairs - Machinery	15.07	--	0.28	--	
	9. Repairs - Buildings	1.66	--	0.03	--	
	10. Utilities and Miscellaneous	4.90	--	0.09	--	
	11. Custom Work	0.46	--	0.01	--	
	12. Operating Interest Paid	0.00	--	0.00	--	
	13. Paid Labour	0.20	--	0.00	--	
	14. Unpaid Labour	7.92	--	0.15	--	
Variable Costs	107.81	0.00	2.00	0.00		
(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--	
	2. Taxes, Water Rates, License & Ins.	2.84	--	0.05	--	
	3. Equipment and Building:	a) Depreciation	14.65	--	0.27	--
		b) Lease Payments	1.82	--	0.03	--
	4. Paid Capital Interest	10.01	--	0.19	--	
Capital Costs	29.32	0.00	0.54	0.00		
(D)	Cash Costs	114.56	--	2.13	--	
(E)	Total Production Costs	137.13	--	2.55	--	
	Gross Margin	(8.03)	--	(0.15)	--	
	Return to Unpaid Labour	(22.68)	--	(0.42)	--	
	Return to Investment	(20.59)	--	(0.38)	--	
	Return to Equity	(30.60)	--	(0.57)	--	

Investment

Buildings	42.92	--
Machinery	136.16	--
Irrigation Machinery	0.00	--
Total (incl. Land)	471.28	--

Management

Average Yield	(Bushel/acre)	53.87	--
Expected Market Price	(\$/Bushel)	1.70	--

2005 Crop Enterprise Analysis

AgriProfit\$

Crop: *Feed Barley - Rent*
Soil Zone: *Peace Region - Dryland - Stubble*
Unit: *Bushel*

		----- \$/Acre -----		---- \$/Bushel ----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	95.31	--	1.77	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	11.61	--	0.22	--
	Gross Receipts	106.92	0.00	1.99	0.00
(B)	Cost Items				
	1. Seed	8.02	--	0.15	--
	2. Fertilizer	26.70	--	0.50	--
	3. Chemical	26.56	--	0.49	--
	4. Hail/Crop Insurance Premium	2.94	--	0.05	--
	5. Trucking and Marketing	2.26	--	0.04	--
	6. Fuel	9.85	--	0.18	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	11.26	--	0.21	--
	9. Repairs - Buildings	0.12	--	0.00	--
	10. Utilities and Miscellaneous	10.20	--	0.19	--
	11. Custom Work	5.53	--	0.10	--
	12. Operating Interest Paid	0.98	--	0.02	--
	13. Paid Labour	1.14	--	0.02	--
	14. Unpaid Labour	7.26	--	0.13	--
	Variable Costs	112.82	0.00	2.10	0.00
(C)	1. Cash/ Share Land Rent	15.42	--	0.29	--
	2. Taxes, Water Rates, License & Ins.	1.18	--	0.02	--
	3. Equipment and Building: a) Depreciation	16.41	--	0.30	--
	b) Lease Payments	0.00	--	0.00	--
4. Paid Capital Interest	2.17	--	0.04	--	
	Capital Costs	35.17	0.00	0.65	0.00
(D)	Cash Costs	(B+C-B14-C3a)	124.33	--	2.31
(E)	Total Production Costs	(B+C)	147.99	--	2.75
	Gross Margin	(A-D)	(17.40)	--	(0.32)
	Return to Unpaid Labour	(A-E+B14)	(33.81)	--	(0.63)
	Return to Investment	(A-E+C4)	(38.90)	--	(0.72)
	Return to Equity	(A-E)	(41.07)	--	(0.76)

Investment

Buildings	48.83	--
Machinery	150.95	--
Irrigation Machinery	0.00	--
Total (incl. Land)	199.78	--

Management

Average Yield	(Bushel/acre)	53.83	--
Expected Market Price	(\$/Bushel)	1.77	--

2005 Crop Enterprise Analysis

AgriProfit\$

Crop: Oats - All
Soil Zone: Peace Region - Dryland - Stubble
Unit: Bushel

		----- \$/Acre -----		---- \$/Bushel ----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	154.71	--	1.54	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	2.58	--	0.03	--
	Gross Receipts	157.29	0.00	1.56	0.00
(B)	Cost Items				
	1. Seed	6.23	--	0.06	--
	2. Fertilizer	38.46	--	0.38	--
	3. Chemical	10.09	--	0.10	--
	4. Hail/Crop Insurance Premium	0.00	--	0.00	--
	5. Trucking and Marketing	1.34	--	0.01	--
	6. Fuel	12.87	--	0.13	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	6.40	--	0.06	--
	9. Repairs - Buildings	0.58	--	0.01	--
	10. Utilities and Miscellaneous	5.53	--	0.06	--
	11. Custom Work	0.00	--	0.00	--
	12. Operating Interest Paid	0.05	--	0.00	--
	13. Paid Labour	5.47	--	0.05	--
	14. Unpaid Labour	17.36	--	0.17	--
	Variable Costs	104.38	0.00	1.04	0.00
(C)	Capital Costs				
	1. Cash/ Share Land Rent	9.00	--	0.09	--
	2. Taxes, Water Rates, License & Ins.	3.33	--	0.03	--
	3. Equipment and Building: a) Depreciation	25.53	--	0.25	--
	b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	0.91	--	0.01	--
	Capital Costs	38.77	0.00	0.39	0.00
(D)	Cash Costs (B+C-B14-C3a)	100.26	--	1.00	--
(E)	Total Production Costs (B+C)	143.15	--	1.42	--
	Gross Margin (A-D)	57.03	--	0.57	--
	Return to Unpaid Labour (A-E+B14)	31.50	--	0.31	--
	Return to Investment (A-E+C4)	15.04	--	0.15	--
	Return to Equity (A-E)	14.14	--	0.14	--

Investment

Buildings	84.91	--
Machinery	226.24	--
Irrigation Machinery	0.00	--
Total (incl. Land)	651.39	--

Management

Average Yield (Bushel/acre)	100.57	--
Expected Market Price (\$/Bushel)	1.54	--

2005 Crop Enterprise Analysis

AgriProfit\$

Crop: *Roundup Ready Canola - All*
Soil Zone: *Peace Region - Dryland - Stubble*
Unit: *Bushel*

		----- \$/Acre -----		---- \$/Bushel ----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	196.79	232.11	4.95	5.26
	2. Crop Insurance Receipts	5.32	0.00	0.13	0.00
	3. Other Receipts	1.78	0.75	0.04	0.02
	Gross Receipts	203.89	232.86	5.13	5.28
(B)	Cost Items				
	1. Seed	29.22	30.13	0.73	0.68
	2. Fertilizer	37.87	32.99	0.95	0.75
	3. Chemical	27.98	23.67	0.70	0.54
	4. Hail/Crop Insurance Premium	7.74	4.09	0.19	0.09
	5. Trucking and Marketing	1.25	0.63	0.03	0.01
	6. Fuel	11.81	12.90	0.30	0.29
	7. Irrigation Fuel and Electricity	0.00	0.00	0.00	0.00
	8. Repairs - Machinery	16.15	17.22	0.41	0.39
	9. Repairs - Buildings	0.75	1.31	0.02	0.03
	10. Utilities and Miscellaneous	11.92	9.92	0.30	0.22
	11. Custom Work	4.14	2.59	0.10	0.06
	12. Operating Interest Paid	2.15	2.73	0.05	0.06
	13. Paid Labour	2.55	2.88	0.06	0.07
	14. Unpaid Labour	11.51	14.34	0.29	0.32
	Variable Costs	165.05	155.39	4.15	3.52
(C)	1. Cash/ Share Land Rent	8.63	3.55	0.22	0.08
	2. Taxes, Water Rates, License & Ins.	3.15	3.40	0.08	0.08
	3. Equipment and Building: a) Depreciation	20.39	21.28	0.51	0.48
	b) Lease Payments	0.00	0.00	0.00	0.00
4. Paid Capital Interest	7.39	7.77	0.19	0.82	
	Capital Costs	39.56	36.00	1.00	1.46
(D)	Cash Costs (B+C-B14-C3a)	172.71	155.76	4.34	4.17
(E)	Total Production Costs (B+C)	204.61	191.39	5.15	4.98
	Gross Margin (A-D)	31.19	77.10	0.78	1.11
	Return to Unpaid Labour (A-E+B14)	10.79	55.81	0.27	0.63
	Return to Investment (A-E+C4)	6.67	49.24	0.17	1.12
	Return to Equity (A-E)	(0.72)	41.48	(0.02)	0.30

Investment

Buildings	62.37	77.56
Machinery	188.93	193.11
Irrigation Machinery	0.00	0.00
Total (incl. Land)	728.27	829.60

Management

Average Yield (Bushel/acre)	39.76	44.13
Expected Market Price (\$/Bushel)	4.95	5.26

2005 Crop Enterprise Analysis

AgriProfit\$

Crop: Roundup Ready Canola - Own
Soil Zone: Peace Region - Dryland - Stubble
Unit: Bushel

		----- \$/Acre -----		---- \$/Bushel ----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	182.51	--	4.70	--	
	2. Crop Insurance Receipts	8.42	--	0.22	--	
	3. Other Receipts	0.51	--	0.01	--	
	Gross Receipts	191.43	0.00	4.93	0.00	
(B)	Cost Items					
	1. Seed	30.73	--	0.79	--	
	2. Fertilizer	37.74	--	0.97	--	
	3. Chemical	28.61	--	0.74	--	
	4. Hail/Crop Insurance Premium	8.23	--	0.21	--	
	5. Trucking and Marketing	1.15	--	0.03	--	
	6. Fuel	11.81	--	0.30	--	
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--	
	8. Repairs - Machinery	18.65	--	0.48	--	
	9. Repairs - Buildings	1.05	--	0.03	--	
	10. Utilities and Miscellaneous	12.95	--	0.33	--	
	11. Custom Work	4.58	--	0.12	--	
	12. Operating Interest Paid	2.84	--	0.07	--	
	13. Paid Labour	2.35	--	0.06	--	
	14. Unpaid Labour	11.03	--	0.28	--	
Variable Costs	171.71	0.00	4.42	0.00		
(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--	
	2. Taxes, Water Rates, License & Ins.	4.11	--	0.11	--	
	3. Equipment and Building:	a) Depreciation	20.41	--	0.53	--
		b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	10.58	--	0.27	--	
Capital Costs	35.09	0.00	0.90	0.00		
(D)	Cash Costs	175.36	--	4.51	--	
(E)	Total Production Costs	206.80	--	5.32	--	
	Gross Margin	16.07	--	0.41	--	
	Return to Unpaid Labour	(4.34)	--	(0.11)	--	
	Return to Investment	(4.79)	--	(0.12)	--	
	Return to Equity	(15.37)	--	(0.40)	--	

Investment

Buildings	67.44	--
Machinery	186.76	--
Irrigation Machinery	0.00	--
Total (incl. Land)	1008.29	--

Management

Average Yield	(Bushel/acre)	38.87	--
Expected Market Price	(\$/Bushel)	4.70	--

2005 Crop Enterprise Analysis

AgriProfit\$

Crop: *Roundup Ready Canola - Rent*
Soil Zone: *Peace Region - Dryland - Stubble*
Unit: *Bushel*

		----- \$/Acre -----		---- \$/Bushel ----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	221.36	--	5.36	--	
	2. Crop Insurance Receipts	0.00	--	0.00	--	
	3. Other Receipts	3.98	--	0.10	--	
	Gross Receipts	225.34	0.00	5.46	0.00	
(B)	Cost Items					
	1. Seed	26.62	--	0.64	--	
	2. Fertilizer	38.09	--	0.92	--	
	3. Chemical	26.89	--	0.65	--	
	4. Hail/Crop Insurance Premium	6.89	--	0.17	--	
	5. Trucking and Marketing	1.43	--	0.03	--	
	6. Fuel	11.83	--	0.29	--	
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--	
	8. Repairs - Machinery	11.85	--	0.29	--	
	9. Repairs - Buildings	0.23	--	0.01	--	
	10. Utilities and Miscellaneous	10.16	--	0.25	--	
	11. Custom Work	3.38	--	0.08	--	
	12. Operating Interest Paid	0.98	--	0.02	--	
	13. Paid Labour	2.90	--	0.07	--	
	14. Unpaid Labour	12.34	--	0.30	--	
Variable Costs	153.59	0.00	3.72	0.00		
(C)	1. Cash/ Share Land Rent	23.50	--	0.57	--	
	2. Taxes, Water Rates, License & Ins.	1.50	--	0.04	--	
	3. Equipment and Building:	a) Depreciation	20.37	--	0.49	--
		b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	1.89	--	0.05	--	
Capital Costs	47.26	0.00	1.14	0.00		
(D)	Cash Costs	168.14	--	4.07	--	
(E)	Total Production Costs	200.85	--	4.86	--	
	Gross Margin	57.21	--	1.39	--	
	Return to Unpaid Labour	36.84	--	0.89	--	
	Return to Investment	26.39	--	0.64	--	
	Return to Equity	24.49	--	0.59	--	

Investment

Buildings	53.66	--
Machinery	192.66	--
Irrigation Machinery	0.00	--
Total (incl. Land)	246.31	--

Management

Average Yield	(Bushel/acre)	41.30	--
Expected Market Price	(\$/Bushel)	5.36	--

2005 Crop Enterprise Analysis

AgriProfit\$

Crop: *Liberty Link Canola - All*
Soil Zone: *Peace Region - Dryland - Stubble*
Unit: *Bushel*

		----- \$/Acre -----		---- \$/Bushel ----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	175.00	--	5.00	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	4.49	--	0.13	--
	Gross Receipts	179.49	0.00	5.13	0.00
(B)	Cost Items				
	1. Seed	19.65	--	0.56	--
	2. Fertilizer	57.10	--	1.63	--
	3. Chemical	25.30	--	0.72	--
	4. Hail/Crop Insurance Premium	8.33	--	0.24	--
	5. Trucking and Marketing	3.43	--	0.10	--
	6. Fuel	9.15	--	0.26	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	4.61	--	0.13	--
	9. Repairs - Buildings	0.99	--	0.03	--
	10. Utilities and Miscellaneous	7.31	--	0.21	--
	11. Custom Work	0.00	--	0.00	--
	12. Operating Interest Paid	0.00	--	0.00	--
	13. Paid Labour	5.93	--	0.17	--
14. Unpaid Labour	9.87	--	0.28	--	
	Variable Costs	151.67	0.00	4.33	0.00
(C)	1. Cash/ Share Land Rent	25.15	--	0.72	--
	2. Taxes, Water Rates, License & Ins.	3.52	--	0.10	--
	3. Equipment and Building: a) Depreciation	27.25	--	0.78	--
	b) Lease Payments	0.00	--	0.00	--
4. Paid Capital Interest	0.00	--	0.00	--	
	Capital Costs	55.92	0.00	1.60	0.00
(D)	Cash Costs (B+C-B14-C3a)	170.46	--	4.87	--
(E)	Total Production Costs (B+C)	207.59	--	5.93	--
	Gross Margin (A-D)	9.03	--	0.26	--
	Return to Unpaid Labour (A-E+B14)	(18.22)	--	(0.52)	--
	Return to Investment (A-E+C4)	(28.09)	--	(0.80)	--
	Return to Equity (A-E)	(28.09)	--	(0.80)	--

Investment

Buildings	117.10	--
Machinery	210.54	--
Irrigation Machinery	0.00	--
Total (incl. Land)	327.65	--

Management

Average Yield (Bushel/acre)	35.00	--
Expected Market Price (\$/Bushel)	5.00	--

2005 Crop Enterprise Analysis

AgriProfit\$

Crop: *Liberty Link Canola - Rent*
Soil Zone: *Peace Region - Dryland - Stubble*
Unit: *Bushel*

		----- \$/Acre -----		---- \$/Bushel ----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	175.00	--	5.00	--	
	2. Crop Insurance Receipts	0.00	--	0.00	--	
	3. Other Receipts	4.49	--	0.13	--	
	Gross Receipts	179.49	0.00	5.13	0.00	
(B)	Cost Items					
	1. Seed	19.65	--	0.56	--	
	2. Fertilizer	57.10	--	1.63	--	
	3. Chemical	25.30	--	0.72	--	
	4. Hail/Crop Insurance Premium	8.33	--	0.24	--	
	5. Trucking and Marketing	3.43	--	0.10	--	
	6. Fuel	9.15	--	0.26	--	
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--	
	8. Repairs - Machinery	4.61	--	0.13	--	
	9. Repairs - Buildings	0.99	--	0.03	--	
	10. Utilities and Miscellaneous	7.31	--	0.21	--	
	11. Custom Work	0.00	--	0.00	--	
	12. Operating Interest Paid	0.00	--	0.00	--	
	13. Paid Labour	5.93	--	0.17	--	
	14. Unpaid Labour	9.87	--	0.28	--	
Variable Costs	151.67	0.00	4.33	0.00		
(C)	1. Cash/ Share Land Rent	25.15	--	0.72	--	
	2. Taxes, Water Rates, License & Ins.	3.52	--	0.10	--	
	3. Equipment and Building:	a) Depreciation	27.25	--	0.78	--
		b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	0.00	--	0.00	--	
Capital Costs	55.92	0.00	1.60	0.00		
(D)	Cash Costs (B+C-B14-C3a)	170.46	--	4.87	--	
(E)	Total Production Costs (B+C)	207.59	--	5.93	--	
	Gross Margin (A-D)	9.03	--	0.26	--	
	Return to Unpaid Labour (A-E+B14)	(18.22)	--	(0.52)	--	
	Return to Investment (A-E+C4)	(28.09)	--	(0.80)	--	
	Return to Equity (A-E)	(28.09)	--	(0.80)	--	

Investment

Buildings	117.10	--
Machinery	210.54	--
Irrigation Machinery	0.00	--
Total (incl. Land)	327.65	--

Management

Average Yield	(Bushel/acre)	35.00	--
Expected Market Price	(\$/Bushel)	5.00	--

2005 Crop Enterprise Analysis

AgriProfit®

Crop: *Clearfield Canola - All*
Soil Zone: *Peace Region - Dryland - Stubble*
Unit: *Bushel*

		----- \$/Acre -----		---- \$/Bushel ----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	129.31	--	4.32	--	
	2. Crop Insurance Receipts	0.00	--	0.00	--	
	3. Other Receipts	4.49	--	0.15	--	
	Gross Receipts	133.81	0.00	4.47	0.00	
(B)	Cost Items					
	1. Seed	19.65	--	0.66	--	
	2. Fertilizer	57.10	--	1.91	--	
	3. Chemical	25.30	--	0.85	--	
	4. Hail/Crop Insurance Premium	8.33	--	0.28	--	
	5. Trucking and Marketing	3.43	--	0.11	--	
	6. Fuel	9.15	--	0.31	--	
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--	
	8. Repairs - Machinery	4.61	--	0.15	--	
	9. Repairs - Buildings	0.99	--	0.03	--	
	10. Utilities and Miscellaneous	7.31	--	0.24	--	
	11. Custom Work	0.00	--	0.00	--	
	12. Operating Interest Paid	0.00	--	0.00	--	
	13. Paid Labour	5.93	--	0.20	--	
	14. Unpaid Labour	9.87	--	0.33	--	
Variable Costs	151.67	0.00	5.07	0.00		
(C)	1. Cash/ Share Land Rent	25.15	--	0.84	--	
	2. Taxes, Water Rates, License & Ins.	3.52	--	0.12	--	
	3. Equipment and Building:	a) Depreciation	27.25	--	0.91	--
		b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	0.00	--	0.00	--	
Capital Costs	55.92	0.00	1.87	0.00		
(D)	Cash Costs	170.46	--	5.70	--	
(E)	Total Production Costs	207.59	--	6.94	--	
	Gross Margin	(36.66)	--	(1.22)	--	
	Return to Unpaid Labour	(63.91)	--	(2.14)	--	
	Return to Investment	(73.78)	--	(2.47)	--	
	Return to Equity	(73.78)	--	(2.47)	--	

Investment

Buildings	117.10	--
Machinery	210.54	--
Irrigation Machinery	0.00	--
Total (incl. Land)	327.65	--

Management

Average Yield	(Bushel/acre)	29.92	--
Expected Market Price	(\$/Bushel)	4.32	--

2005 Crop Enterprise Analysis

AgriProfit\$

Crop: *Clearfield Canola - Rent*
Soil Zone: *Peace Region - Dryland - Stubble*
Unit: *Bushel*

		----- \$/Acre -----		---- \$/Bushel ----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	129.31	--	4.32	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	4.49	--	0.15	--
	Gross Receipts	133.81	0.00	4.47	0.00
(B)	Cost Items				
	1. Seed	19.65	--	0.66	--
	2. Fertilizer	57.10	--	1.91	--
	3. Chemical	25.30	--	0.85	--
	4. Hail/Crop Insurance Premium	8.33	--	0.28	--
	5. Trucking and Marketing	3.43	--	0.11	--
	6. Fuel	9.15	--	0.31	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	4.61	--	0.15	--
	9. Repairs - Buildings	0.99	--	0.03	--
	10. Utilities and Miscellaneous	7.31	--	0.24	--
	11. Custom Work	0.00	--	0.00	--
	12. Operating Interest Paid	0.00	--	0.00	--
	13. Paid Labour	5.93	--	0.20	--
14. Unpaid Labour	9.87	--	0.33	--	
	Variable Costs	151.67	0.00	5.07	0.00
(C)	1. Cash/ Share Land Rent	25.15	--	0.84	--
	2. Taxes, Water Rates, License & Ins.	3.52	--	0.12	--
	3. Equipment and Building: a) Depreciation	27.25	--	0.91	--
	b) Lease Payments	0.00	--	0.00	--
4. Paid Capital Interest	0.00	--	0.00	--	
	Capital Costs	55.92	0.00	1.87	0.00
(D)	Cash Costs (B+C-B14-C3a)	170.46	--	5.70	--
(E)	Total Production Costs (B+C)	207.59	--	6.94	--
	Gross Margin (A-D)	(36.66)	--	(1.22)	--
	Return to Unpaid Labour (A-E+B14)	(63.91)	--	(2.14)	--
	Return to Investment (A-E+C4)	(73.78)	--	(2.47)	--
	Return to Equity (A-E)	(73.78)	--	(2.47)	--

Investment

Buildings	117.10	--
Machinery	210.54	--
Irrigation Machinery	0.00	--
Total (incl. Land)	327.65	--

Management

Average Yield (Bushel/acre)	29.92	--
Expected Market Price (\$/Bushel)	4.32	--

2005 Crop Enterprise Analysis

AgriProfit\$

Crop: *Field Peas - All*
Soil Zone: *Peace Region - Dryland - Stubble*
Unit: *Bushel*

		----- \$/Acre -----		---- \$/Bushel ----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	124.62	--	3.42	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	0.74	--	0.02	--
	Gross Receipts	125.36	0.00	3.44	0.00
(B)	Cost Items				
	1. Seed	18.27	--	0.50	--
	2. Fertilizer	11.41	--	0.31	--
	3. Chemical	26.35	--	0.72	--
	4. Hail/Crop Insurance Premium	0.00	--	0.00	--
	5. Trucking and Marketing	0.09	--	0.00	--
	6. Fuel	15.57	--	0.43	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	19.78	--	0.54	--
	9. Repairs - Buildings	2.13	--	0.06	--
	10. Utilities and Miscellaneous	8.06	--	0.22	--
	11. Custom Work	2.21	--	0.06	--
	12. Operating Interest Paid	3.82	--	0.10	--
	13. Paid Labour	2.56	--	0.07	--
14. Unpaid Labour	15.74	--	0.43	--	
	Variable Costs	125.99	0.00	3.45	0.00
(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	3.86	--	0.11	--
	3. Equipment and Building: a) Depreciation	21.01	--	0.58	--
	b) Lease Payments	0.00	--	0.00	--
4. Paid Capital Interest	7.63	--	0.21	--	
	Capital Costs	32.49	0.00	0.89	0.00
(D)	Cash Costs (B+C-B14-C3a)	121.73	--	3.34	--
(E)	Total Production Costs (B+C)	158.48	--	4.34	--
	Gross Margin (A-D)	3.63	--	0.10	--
	Return to Unpaid Labour (A-E+B14)	(17.37)	--	(0.48)	--
	Return to Investment (A-E+C4)	(25.49)	--	(0.70)	--
	Return to Equity (A-E)	(33.12)	--	(0.91)	--

Investment

Buildings	97.28	--
Machinery	182.56	--
Irrigation Machinery	0.00	--
Total (incl. Land)	997.97	--

Management

Average Yield (Bushel/acre)	36.49	--
Expected Market Price (\$/Bushel)	3.42	--

2005 Crop Enterprise Analysis

AgriProfit\$

Crop: *Field Peas - Own*
Soil Zone: *Peace Region - Dryland - Stubble*
Unit: *Bushel*

		----- \$/Acre -----		---- \$/Bushel ----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	124.62	--	3.42	--	
	2. Crop Insurance Receipts	0.00	--	0.00	--	
	3. Other Receipts	0.74	--	0.02	--	
	Gross Receipts	125.36	0.00	3.44	0.00	
(B)	Cost Items					
	1. Seed	18.27	--	0.50	--	
	2. Fertilizer	11.41	--	0.31	--	
	3. Chemical	26.35	--	0.72	--	
	4. Hail/Crop Insurance Premium	0.00	--	0.00	--	
	5. Trucking and Marketing	0.09	--	0.00	--	
	6. Fuel	15.57	--	0.43	--	
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--	
	8. Repairs - Machinery	19.78	--	0.54	--	
	9. Repairs - Buildings	2.13	--	0.06	--	
	10. Utilities and Miscellaneous	8.06	--	0.22	--	
	11. Custom Work	2.21	--	0.06	--	
	12. Operating Interest Paid	3.82	--	0.10	--	
	13. Paid Labour	2.56	--	0.07	--	
	14. Unpaid Labour	15.74	--	0.43	--	
	Variable Costs	125.99	0.00	3.45	0.00	
(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--	
	2. Taxes, Water Rates, License & Ins.	3.86	--	0.11	--	
	3. Equipment and Building:	a) Depreciation	21.01	--	0.58	--
		b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	7.63	--	0.21	--	
	Capital Costs	32.49	0.00	0.89	0.00	
(D)	Cash Costs	121.73	--	3.34	--	
(E)	Total Production Costs	158.48	--	4.34	--	
	Gross Margin	3.63	--	0.10	--	
	Return to Unpaid Labour	(17.37)	--	(0.48)	--	
	Return to Investment	(25.49)	--	(0.70)	--	
	Return to Equity	(33.12)	--	(0.91)	--	

Investment

Buildings	97.28	--
Machinery	182.56	--
Irrigation Machinery	0.00	--
Total (incl. Land)	997.97	--

Management

Average Yield	(Bushel/acre)	36.49	--
Expected Market Price	(\$/Bushel)	3.42	--

2005 Crop Enterprise Analysis

AgriProfit\$

Crop: Grain Silage - All
Soil Zone: Peace Region - Dryland - Stubble
Unit: Tonne

		----- \$/Acre -----		----- \$/Tonne -----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	217.70	--	35.08	--	
	2. Crop Insurance Receipts	0.00	--	0.00	--	
	3. Other Receipts	5.53	--	0.89	--	
	Gross Receipts	223.23	0.00	35.98	0.00	
(B)	Cost Items					
	1. Seed	10.69	--	1.72	--	
	2. Fertilizer	40.00	--	6.45	--	
	3. Chemical	13.08	--	2.11	--	
	4. Hail/Crop Insurance Premium	6.45	--	1.04	--	
	5. Trucking and Marketing	6.67	--	1.08	--	
	6. Fuel	17.12	--	2.76	--	
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--	
	8. Repairs - Machinery	3.12	--	0.50	--	
	9. Repairs - Buildings	1.65	--	0.27	--	
	10. Utilities and Miscellaneous	5.76	--	0.93	--	
	11. Custom Work	16.10	--	2.60	--	
	12. Operating Interest Paid	0.18	--	0.03	--	
	13. Paid Labour	1.24	--	0.20	--	
	14. Unpaid Labour	4.23	--	0.68	--	
Variable Costs	126.30	0.00	20.35	0.00		
(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--	
	2. Taxes, Water Rates, License & Ins.	1.77	--	0.29	--	
	3. Equipment and Building:	a) Depreciation	21.39	--	3.45	--
		b) Lease Payments	2.08	--	0.33	--
	4. Paid Capital Interest	3.40	--	0.55	--	
Capital Costs	28.64	0.00	4.62	0.00		
(D)	Cash Costs	(B+C-B14-C3a)	129.32	--	20.84	
(E)	Total Production Costs	(B+C)	154.94	--	24.97	
	Gross Margin	(A-D)	93.91	--	15.13	
	Return to Unpaid Labour	(A-E+B14)	72.52	--	11.69	
	Return to Investment	(A-E+C4)	71.69	--	11.55	
	Return to Equity	(A-E)	68.29	--	11.01	

Investment

Buildings	34.91	--
Machinery	200.11	--
Irrigation Machinery	0.00	--
Total (incl. Land)	673.47	--

Management

Average Yield	(Tonne/acre)	6.21	--
Expected Market Price	(\$/Tonne)	35.08	--

2005 Crop Enterprise Analysis

AgriProfit\$

Crop: Grain Silage - Own
Soil Zone: Peace Region - Dryland - Stubble
Unit: Tonne

		----- \$/Acre -----		----- \$/Tonne -----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	217.70	--	35.08	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	5.53	--	0.89	--
	Gross Receipts	223.23	0.00	35.98	0.00
(B)	Cost Items				
	1. Seed	10.69	--	1.72	--
	2. Fertilizer	40.00	--	6.45	--
	3. Chemical	13.08	--	2.11	--
	4. Hail/Crop Insurance Premium	6.45	--	1.04	--
	5. Trucking and Marketing	6.67	--	1.08	--
	6. Fuel	17.12	--	2.76	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	3.12	--	0.50	--
	9. Repairs - Buildings	1.65	--	0.27	--
	10. Utilities and Miscellaneous	5.76	--	0.93	--
	11. Custom Work	16.10	--	2.60	--
	12. Operating Interest Paid	0.18	--	0.03	--
	13. Paid Labour	1.24	--	0.20	--
	14. Unpaid Labour	4.23	--	0.68	--
	Variable Costs	126.30	0.00	20.35	0.00
(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	1.77	--	0.29	--
	3. Equipment and Building: a) Depreciation	21.39	--	3.45	--
	b) Lease Payments	2.08	--	0.33	--
4. Paid Capital Interest	3.40	--	0.55	--	
	Capital Costs	28.64	0.00	4.62	0.00
(D)	Cash Costs (B+C-B14-C3a)	129.32	--	20.84	--
(E)	Total Production Costs (B+C)	154.94	--	24.97	--
	Gross Margin (A-D)	93.91	--	15.13	--
	Return to Unpaid Labour (A-E+B14)	72.52	--	11.69	--
	Return to Investment (A-E+C4)	71.69	--	11.55	--
	Return to Equity (A-E)	68.29	--	11.01	--

Investment

Buildings	34.91	--
Machinery	200.11	--
Irrigation Machinery	0.00	--
Total (incl. Land)	673.47	--

Management

Average Yield	(Tonne/acre)	6.21	--
Expected Market Price	(\$/Tonne)	35.08	--

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 Region soil zone. From these charts a lot can be interpreted about yield performance:

- The low is less than 30 bushels per acre and the high is less than 55 bushels per acre, and
- 85% of the spring wheat fields in the Peace Region soil zone yield between 30 and 50 bushels per acre

This detailed information provides a better understanding of yield variability. The average yield is 42 bushels per acre provided on 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 wheat was \$4 per bushel, then 75% of the fields are covering their cash costs and 75% 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.

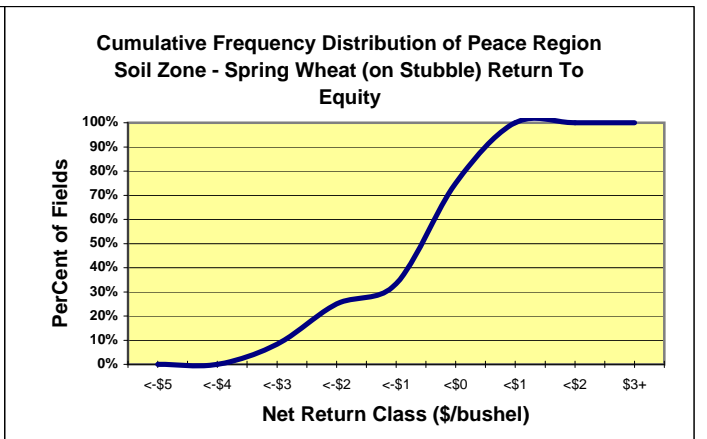
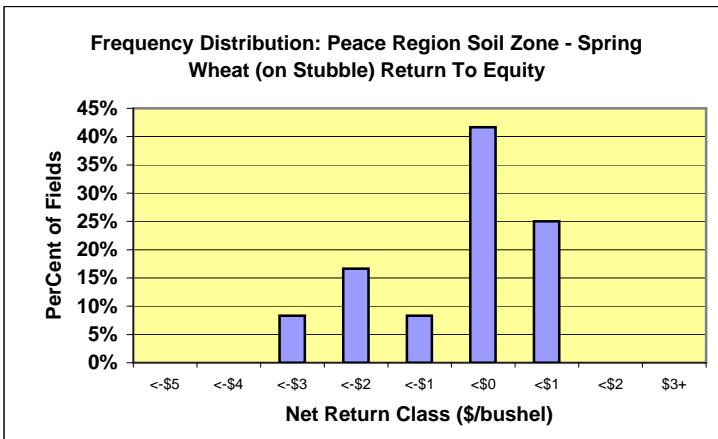
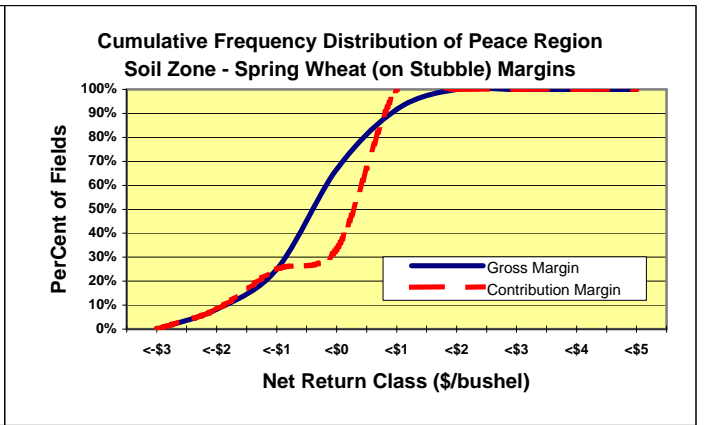
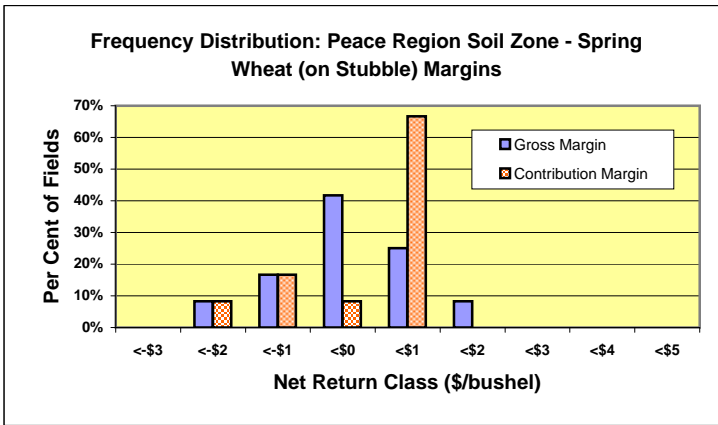
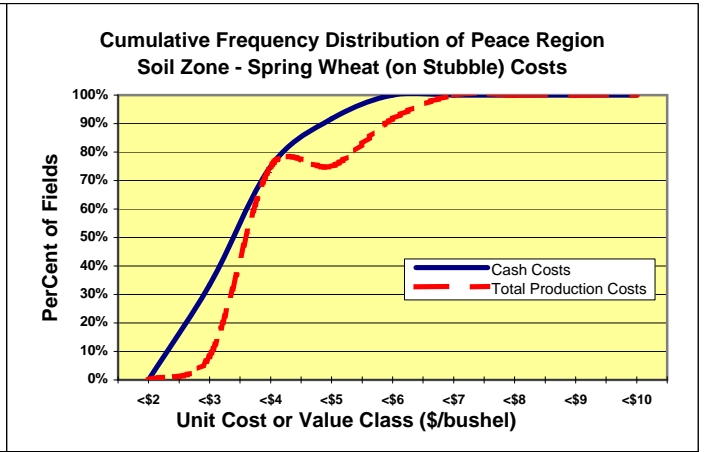
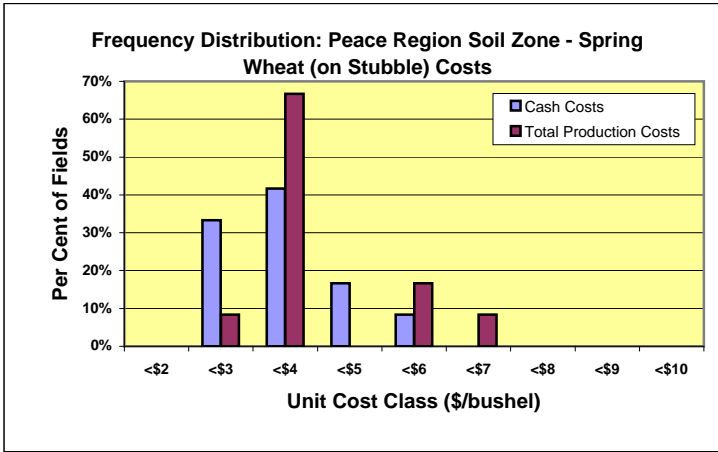
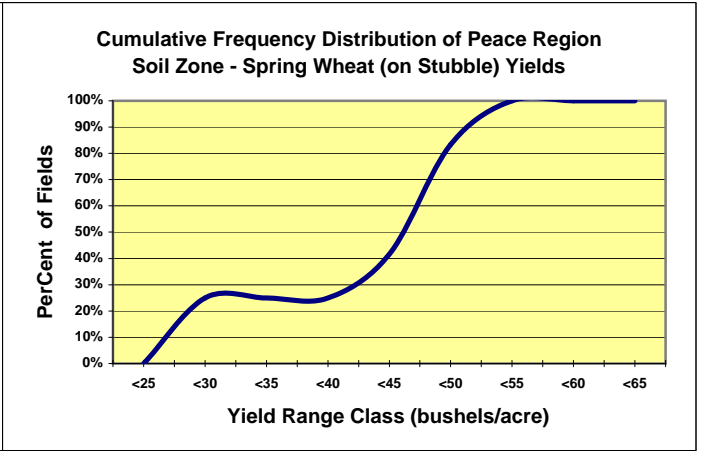
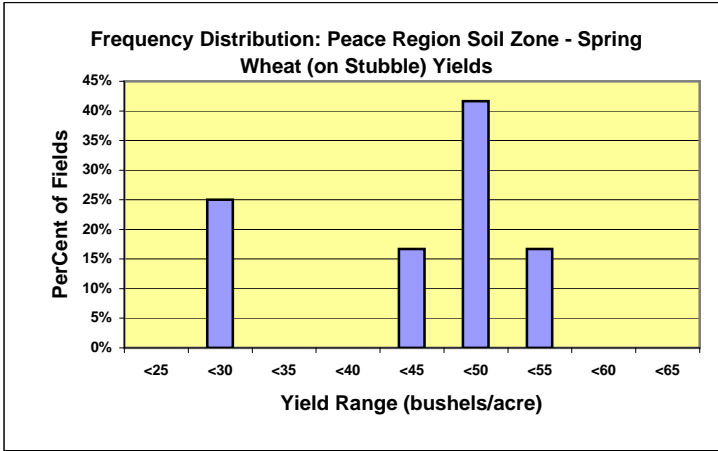
The third set of graphs highlights contribution and gross margins. Contribution margin is the return over variable costs, which are a combination of variable cash and non-cash (unpaid labour) costs. It is the best single indicator of profitability at the individual field level and it is used to compare 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.

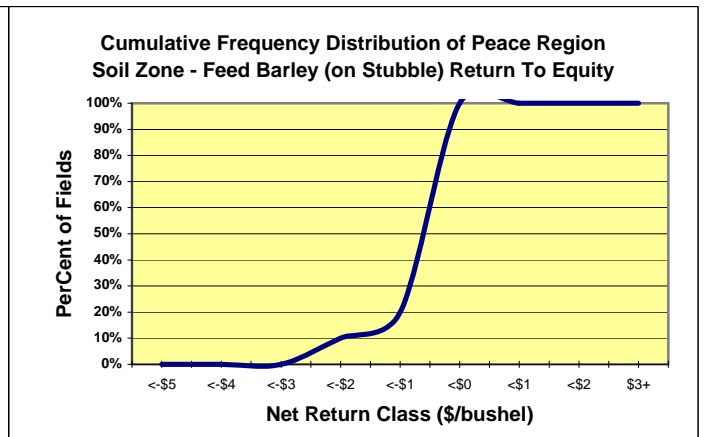
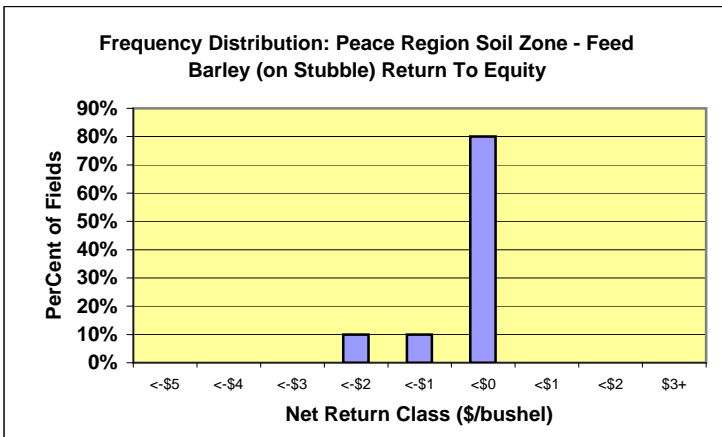
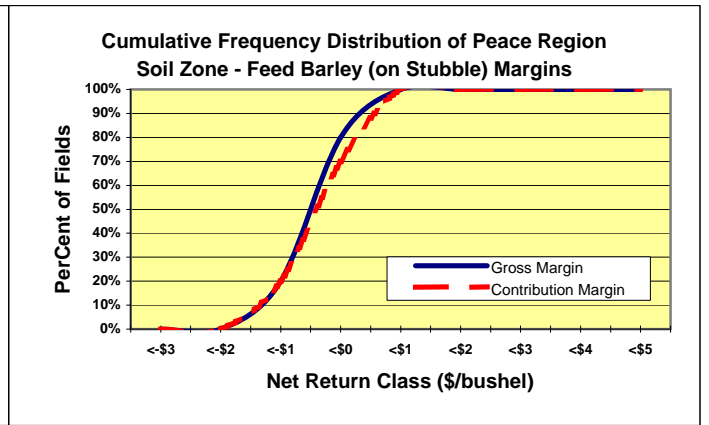
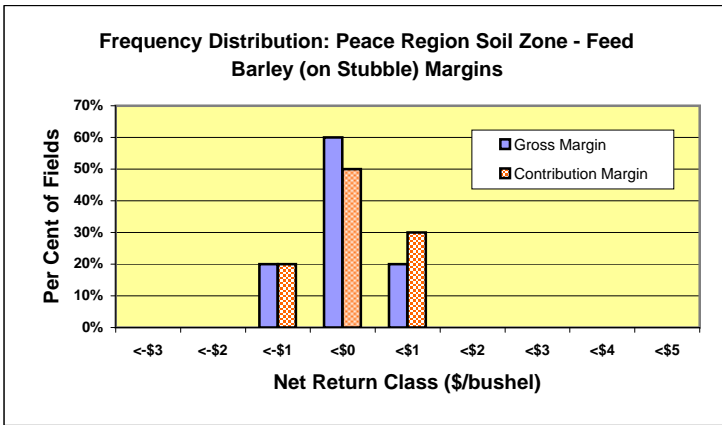
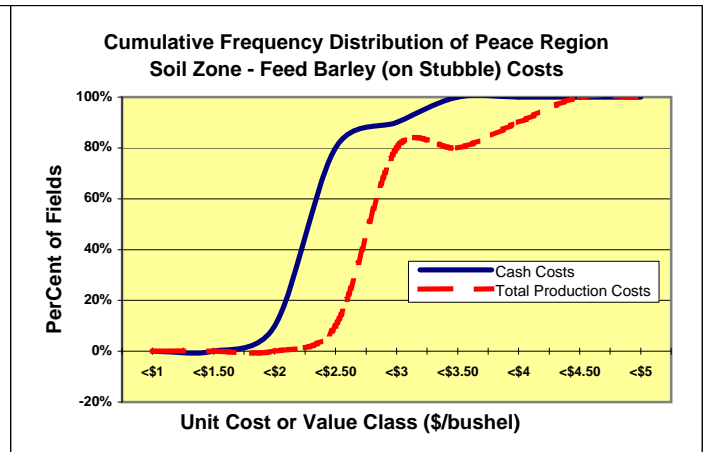
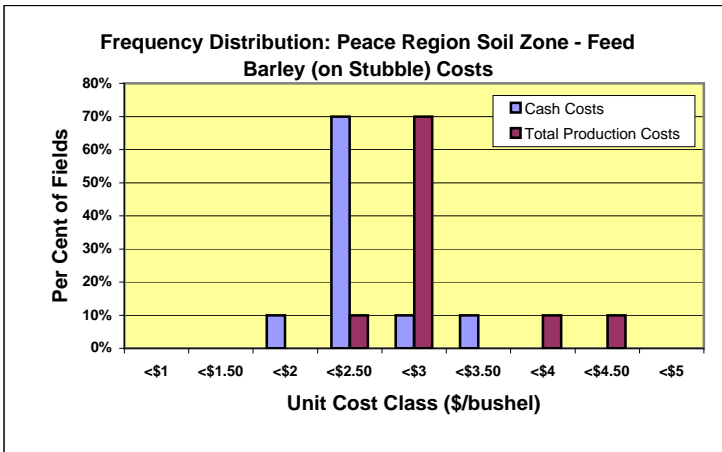
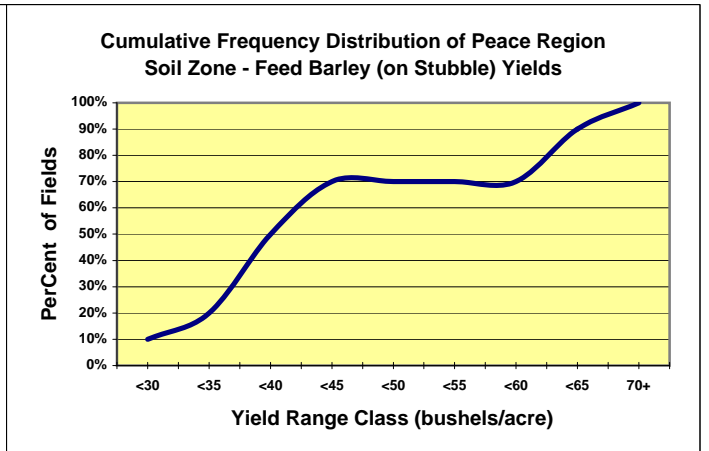
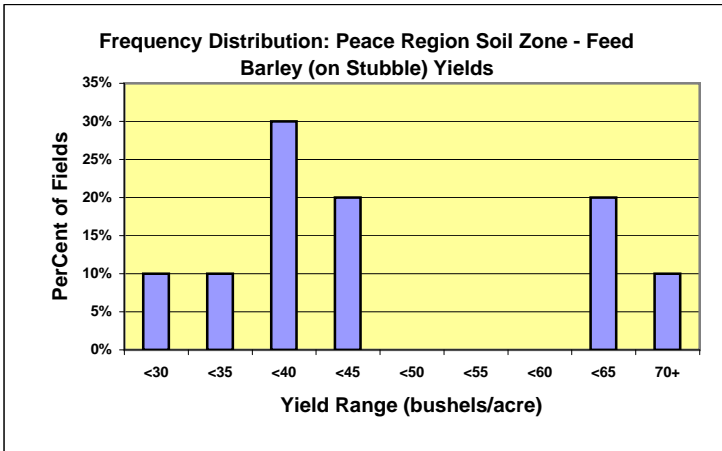
The final set of graphs shows the distribution of returns to equity, or profit per unit of production. This example shows that 75% of the fields had a loss and 25% of the fields at least broke even. Return to equity can be used to compare the profitability of one crop versus another or one farm enterprise 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 Alberta Agriculture and Food (AF) 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.

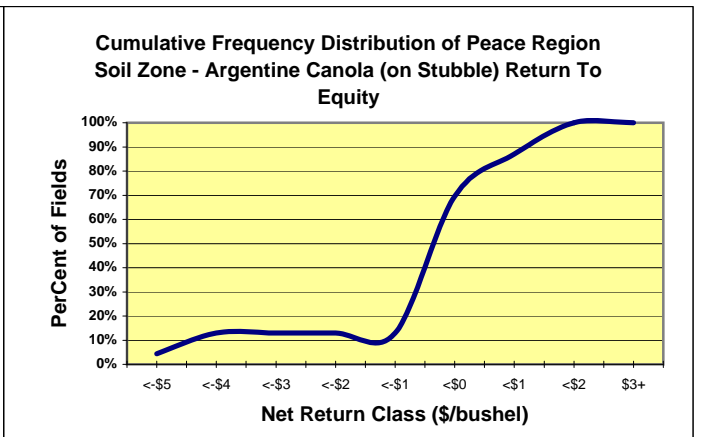
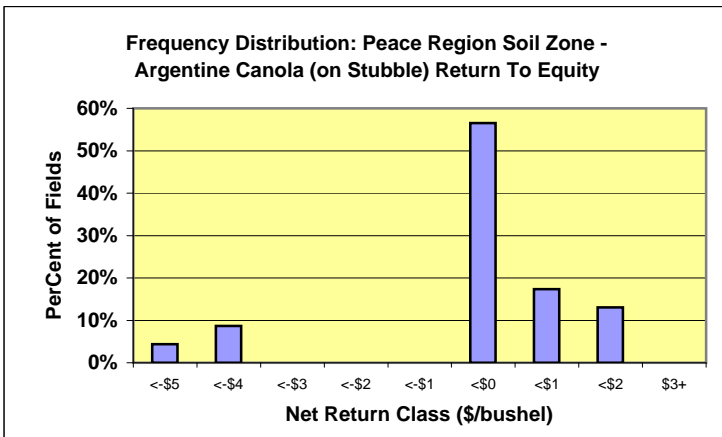
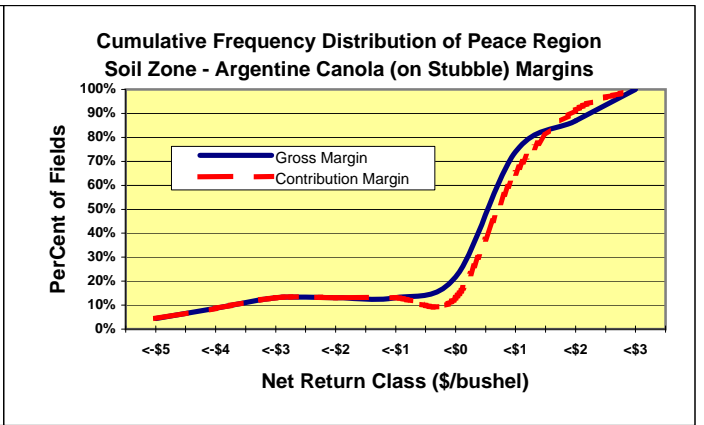
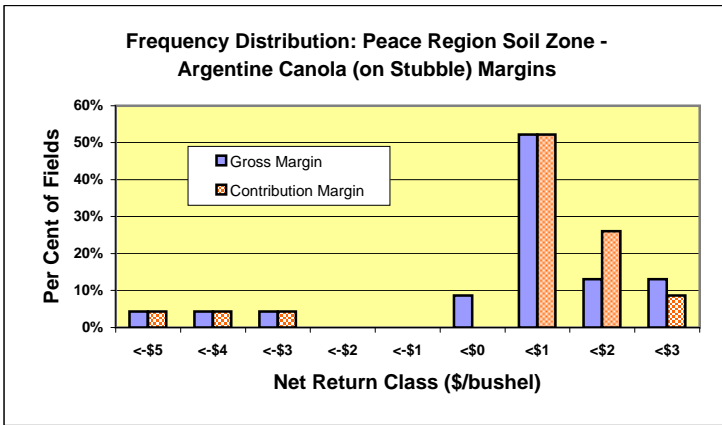
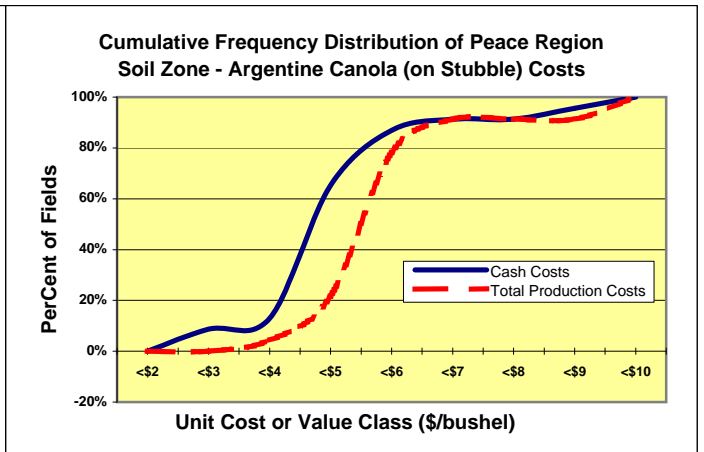
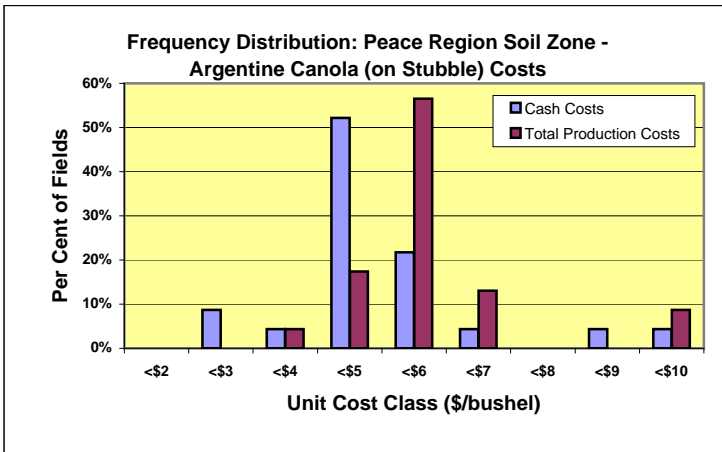
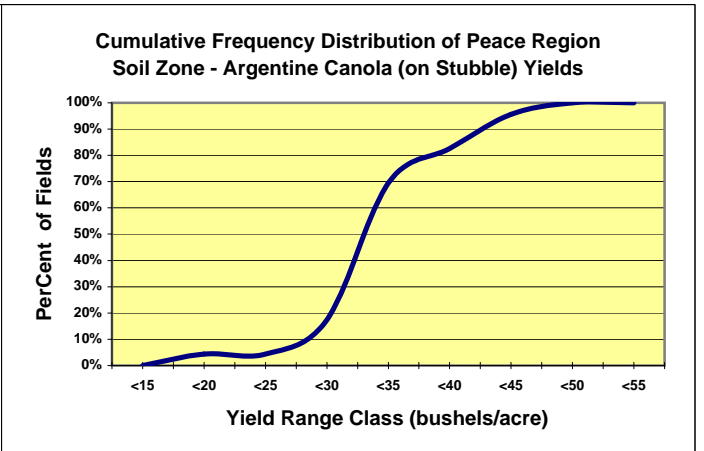
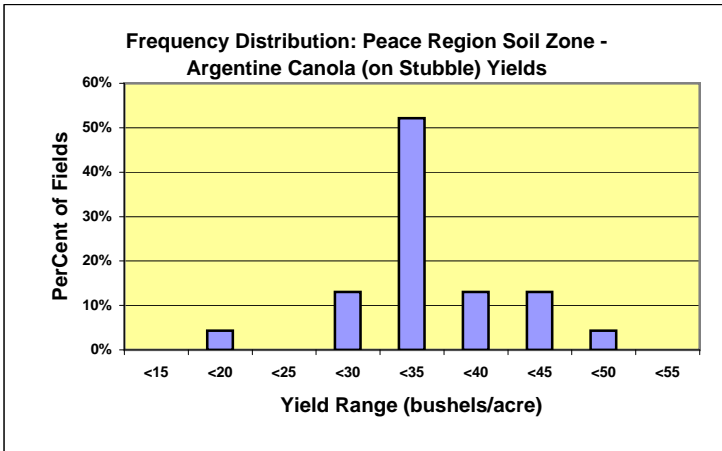
Peace Region Soil Zone - Spring Wheat (on Stubble): 2005

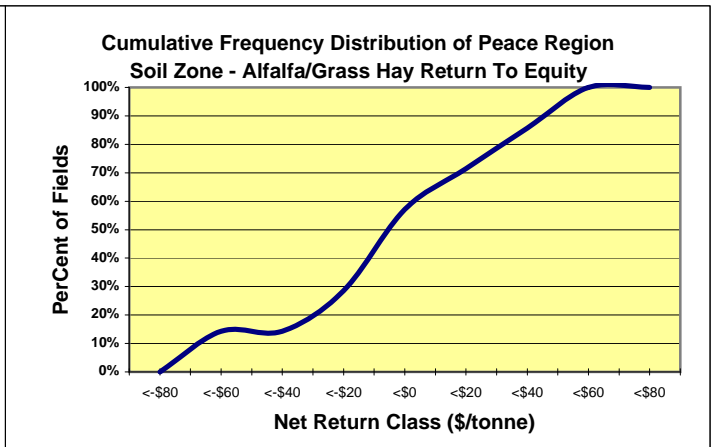
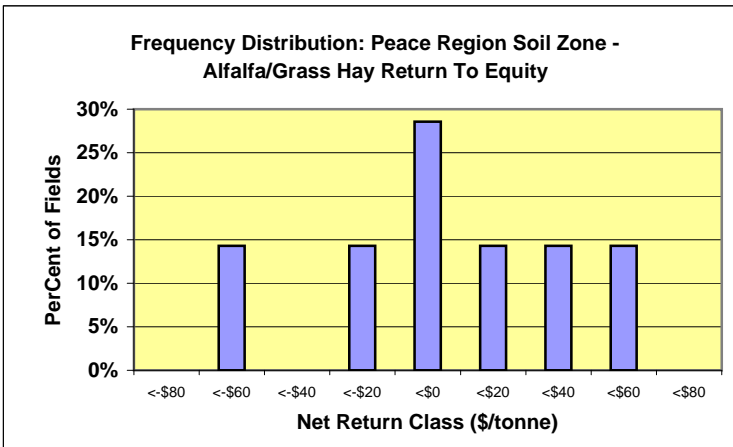
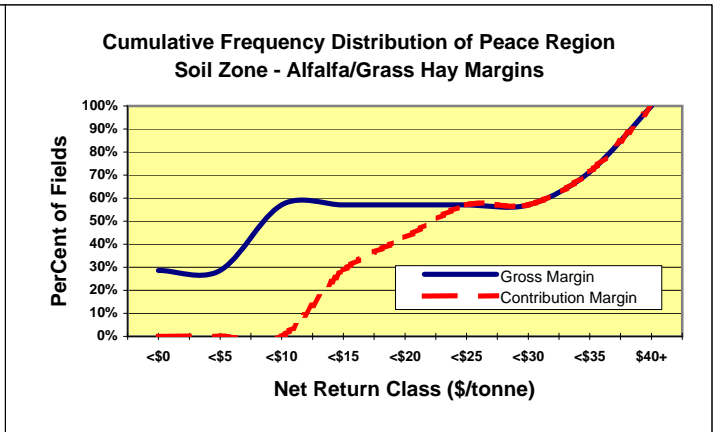
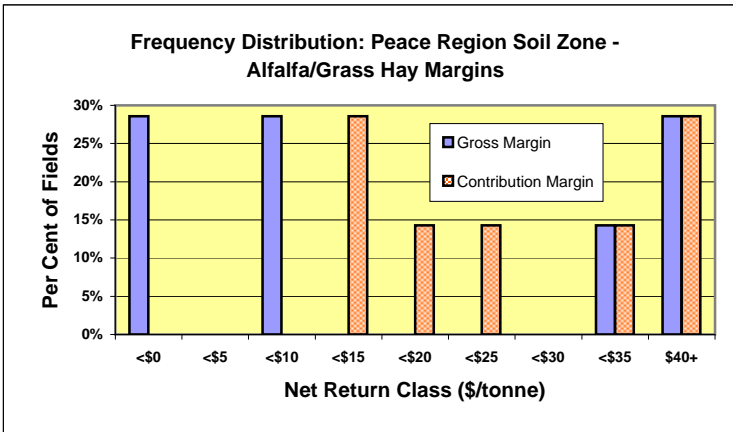
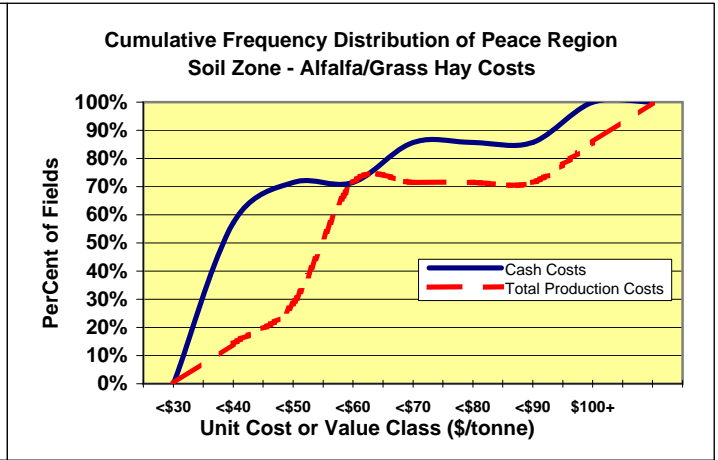
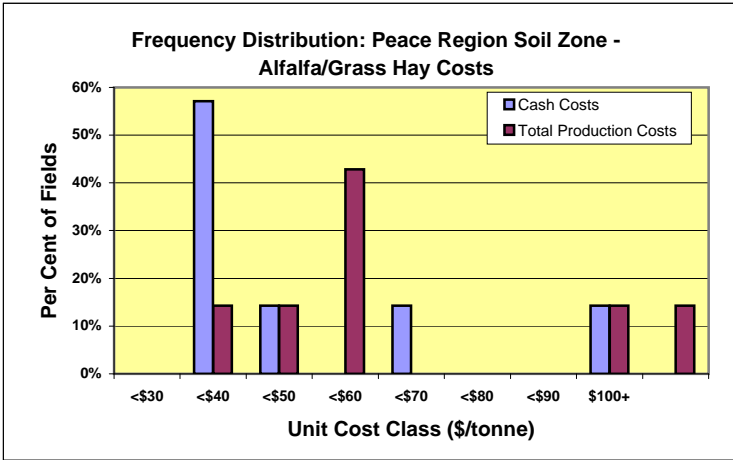
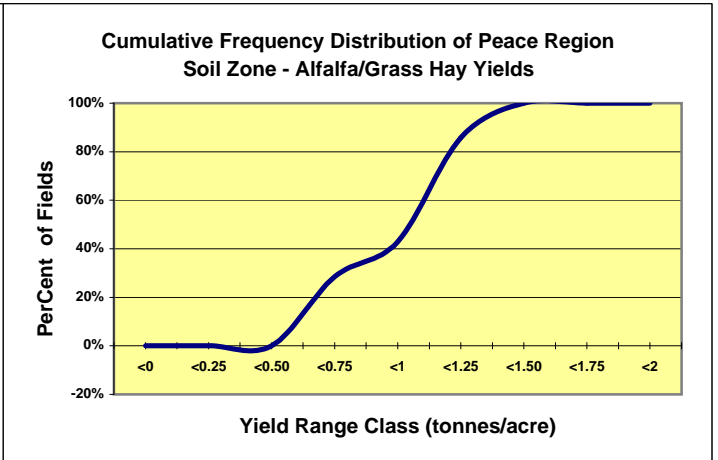
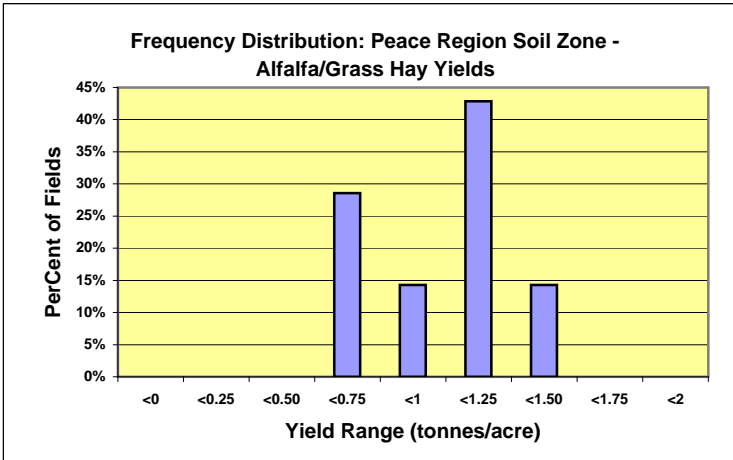


Peace Region Soil Zone - Feed Barley (on Stubble): 2005



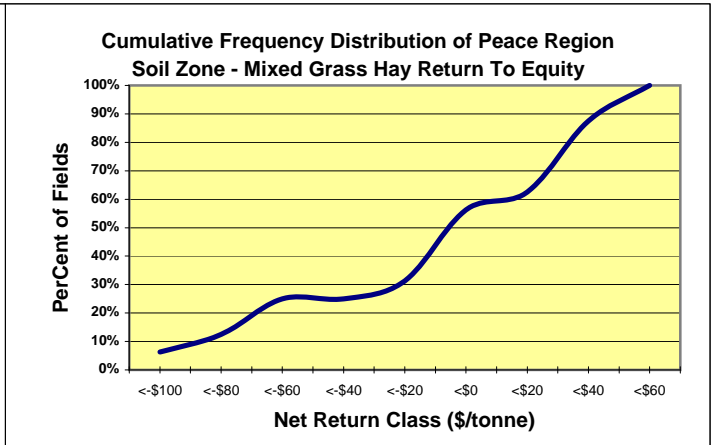
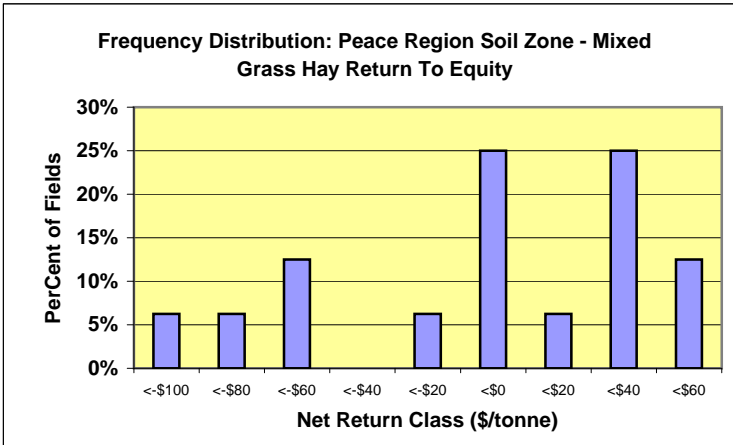
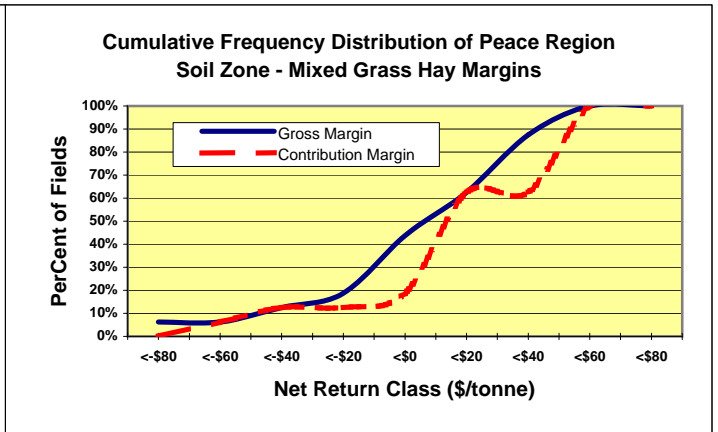
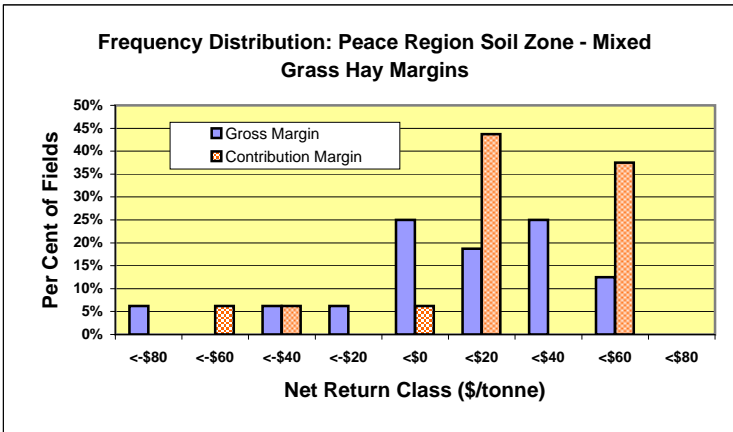
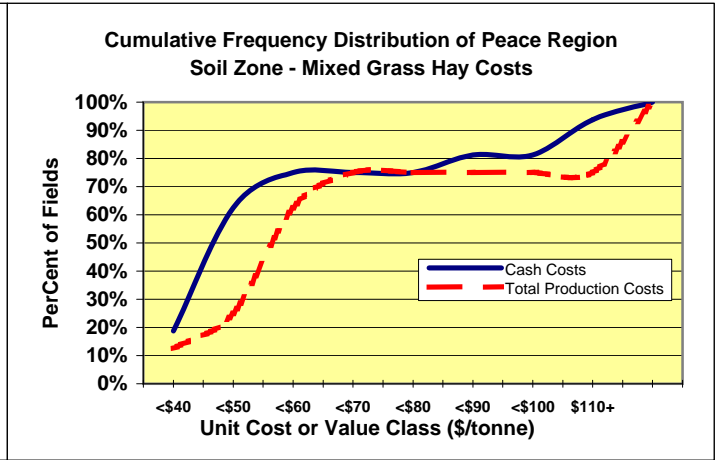
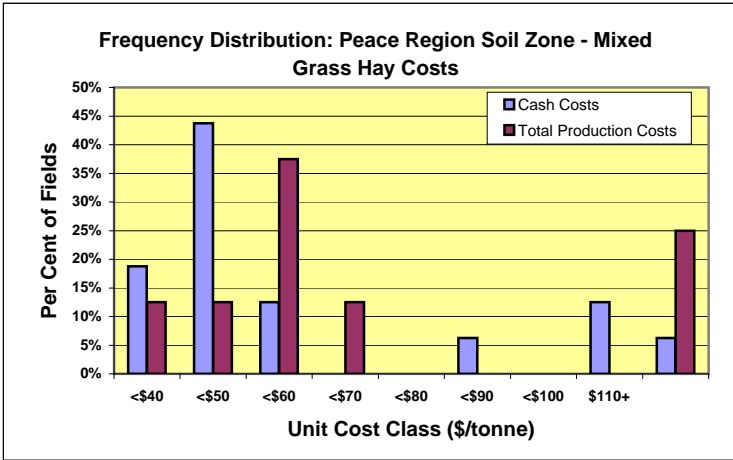
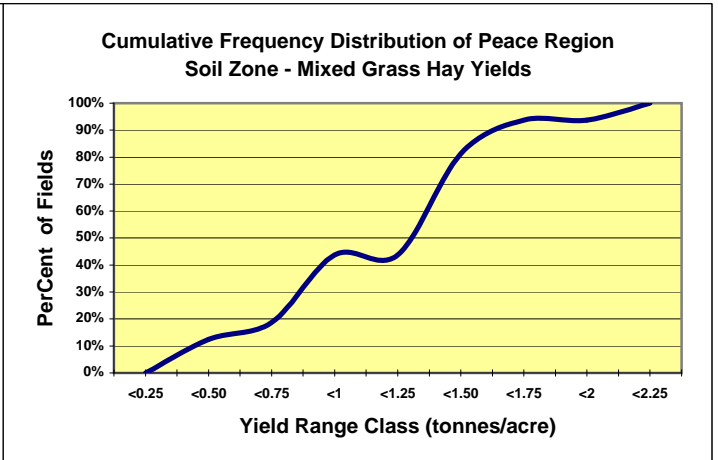
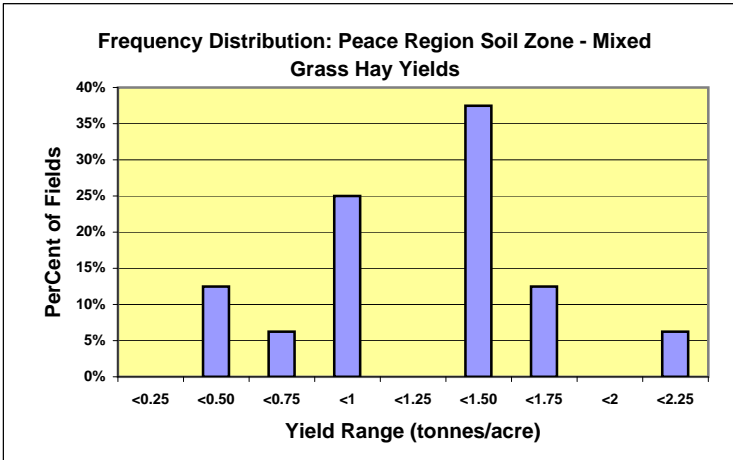
Peace Region Soil Zone - Argentine Canola (on Stubble): 2005



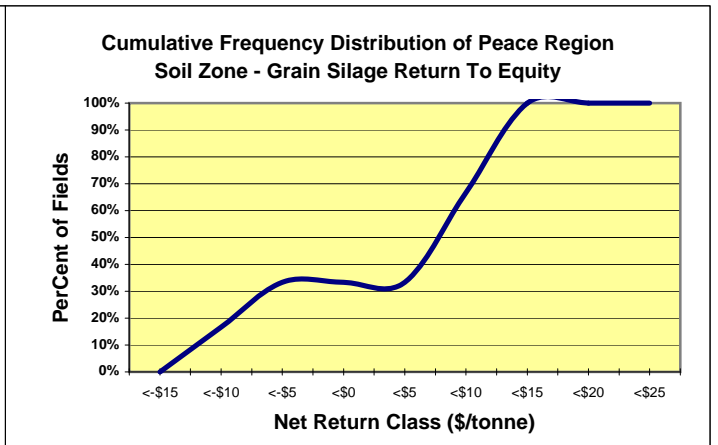
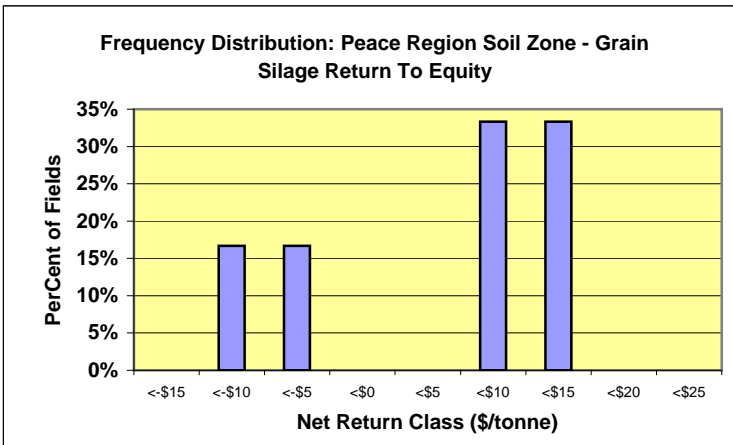
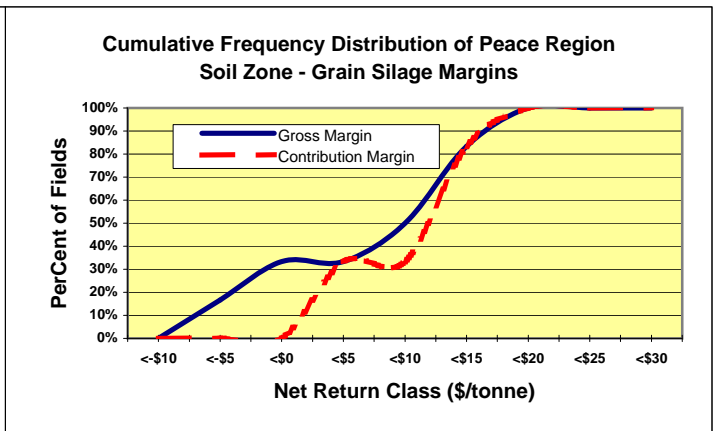
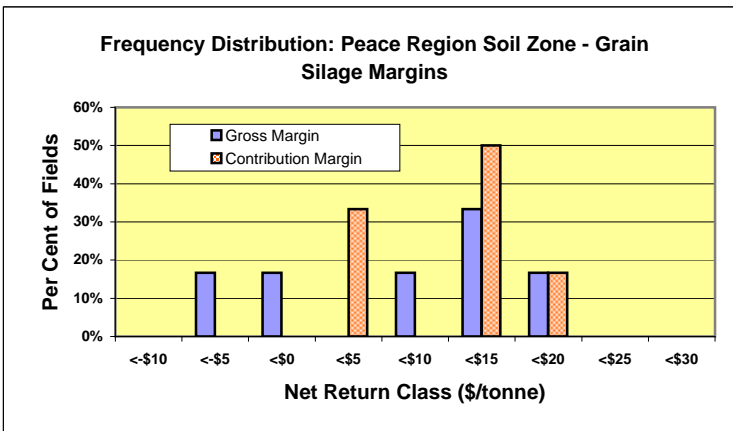
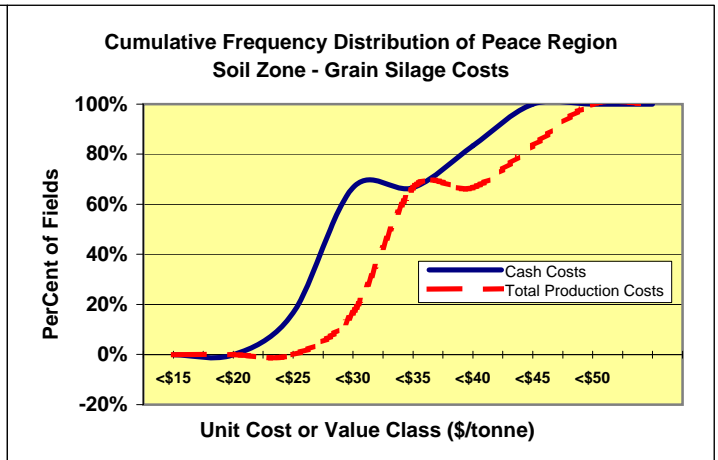
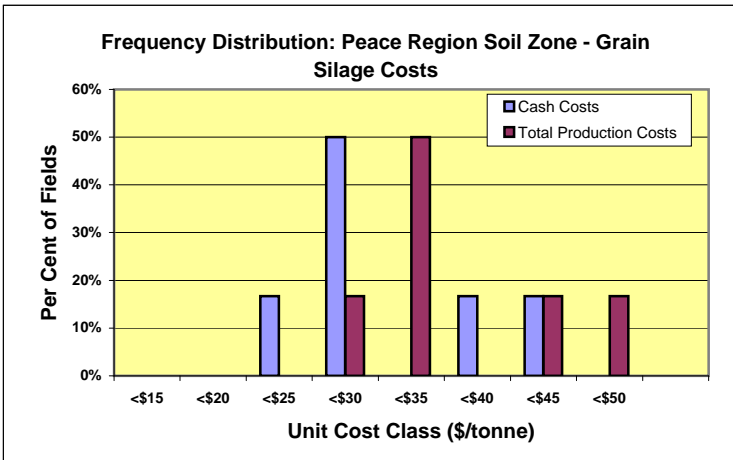
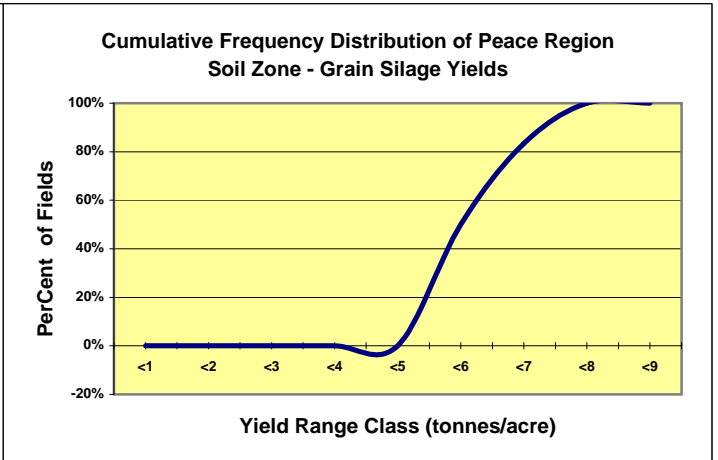
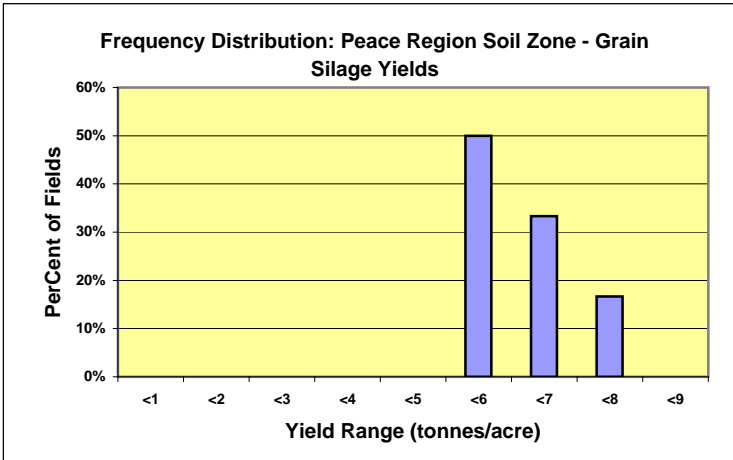


Peace Region Soil Zone - Mixed Grass Hay: 2005

AgriProfit\$



Peace Region Soil Zone - Grain Silage: 2005



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