

AgriProfit\$

**Cost and Return Profiles for
Selected Crops, 2002
*Brown Soil Zone***

December, 2005

Alberta
AGRICULTURE, FOOD AND
RURAL DEVELOPMENT



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OVERVIEW

2002 Brown/Dark Brown Soil Zone

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

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

The map on the upper right illustrates the Brown Soil Zone area of Alberta. A map for the Dark Brown soil is not available. 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 2002 survey season.

For questions regarding this document please contact:

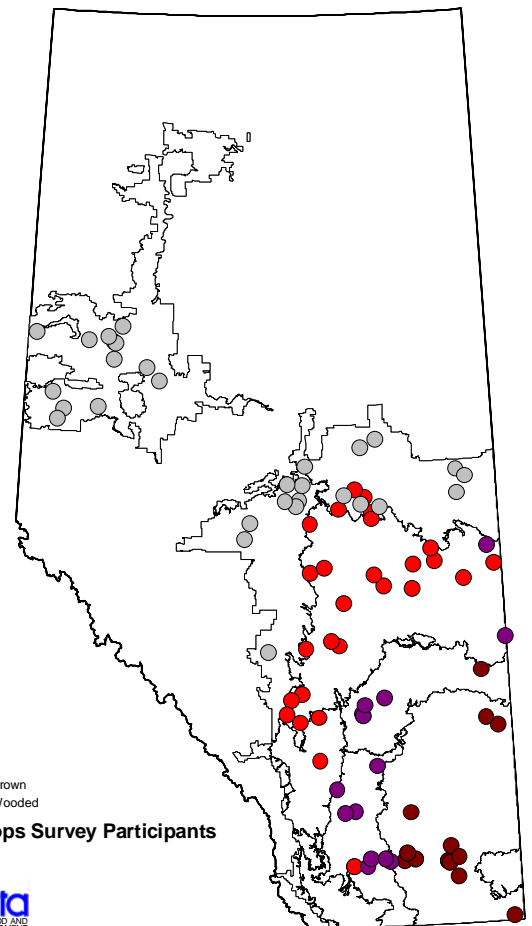
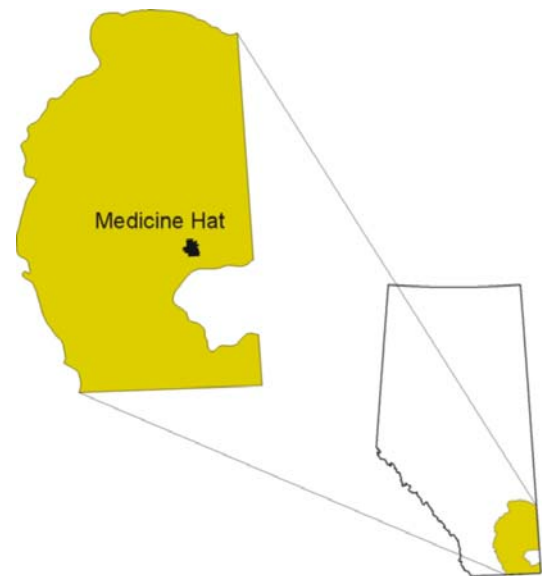
Stefan Verchomin – Crop Economist
 Economics Unit – AAFRD
 Phone: (780) 422-7095
 Fax: (780) 427-5220
 Email: Stefan.Verchomin@gov.ab.ca

OR

Alberta Ag-Info Centre
 1-866-882-7677

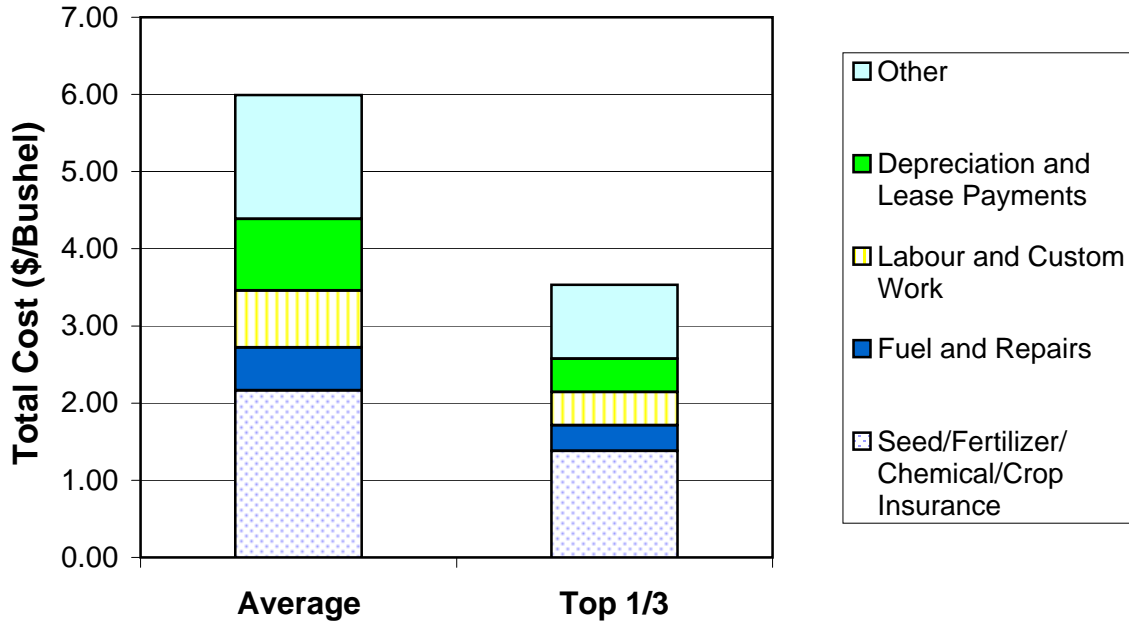
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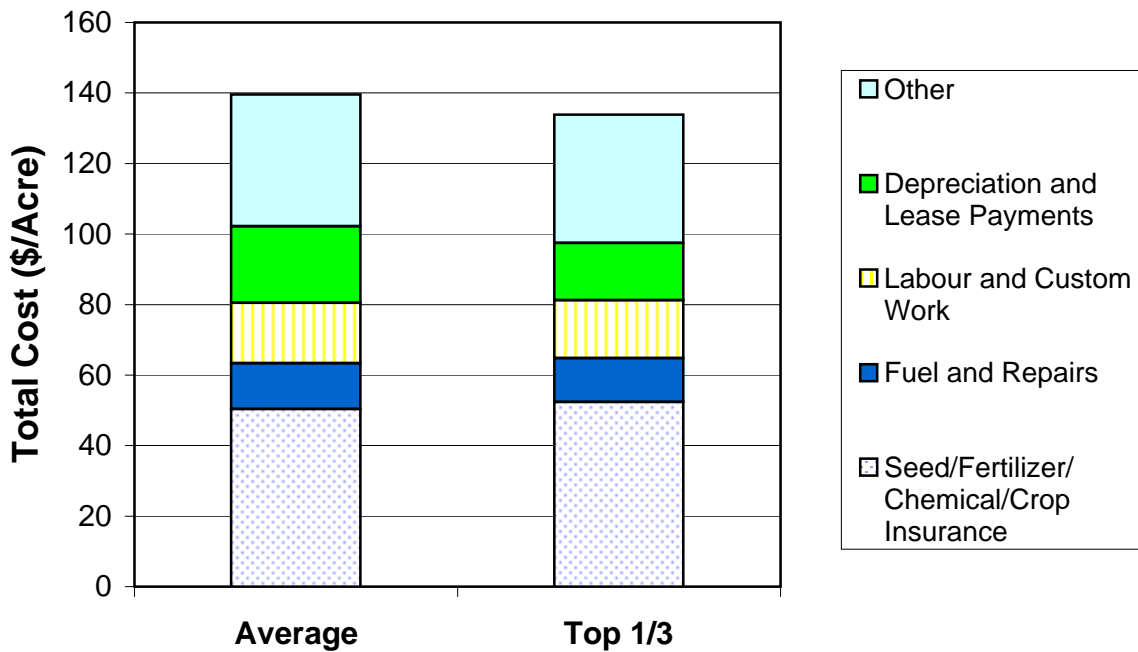
Spring Wheat on Brown Soil Zones

Total Cost (\$/Bushel)



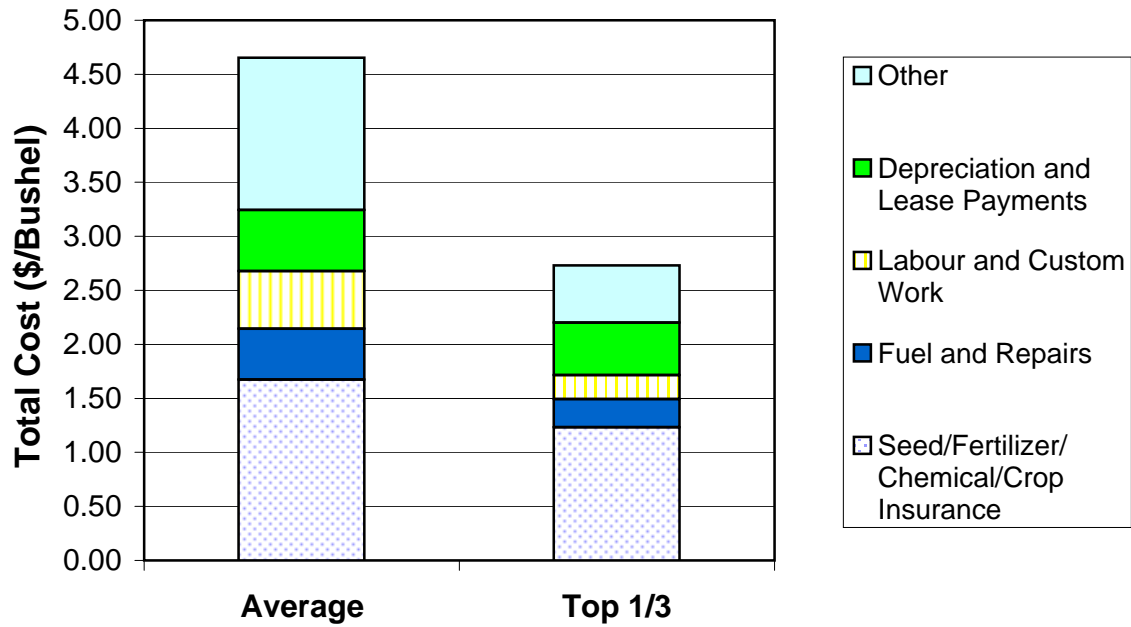
Spring Wheat on Brown Soil Zones

Total Cost (\$/Acre)



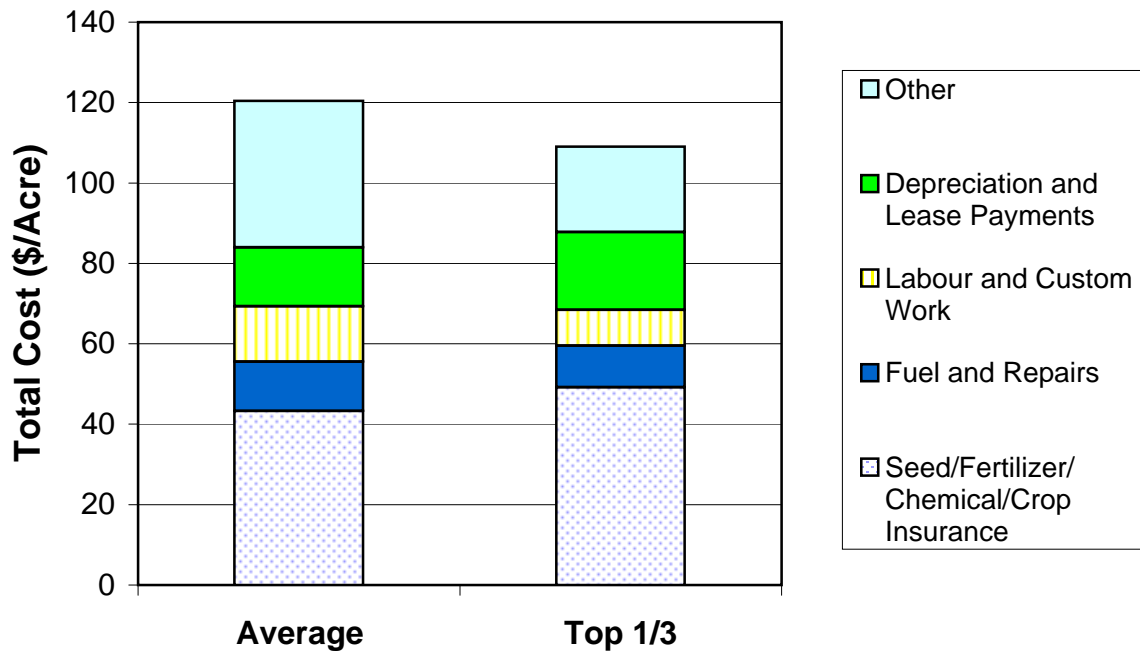
Durum on Brown Soil Zones

Total Cost (\$/Bushel)



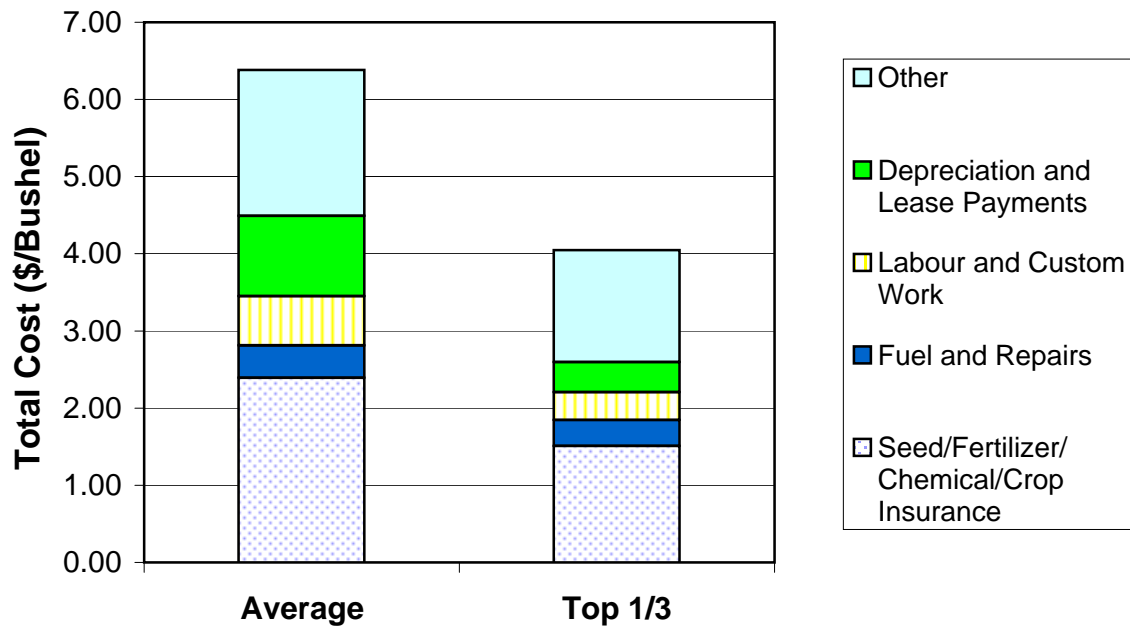
Durum on Brown Soil Zones

Total Cost (\$/Acre)



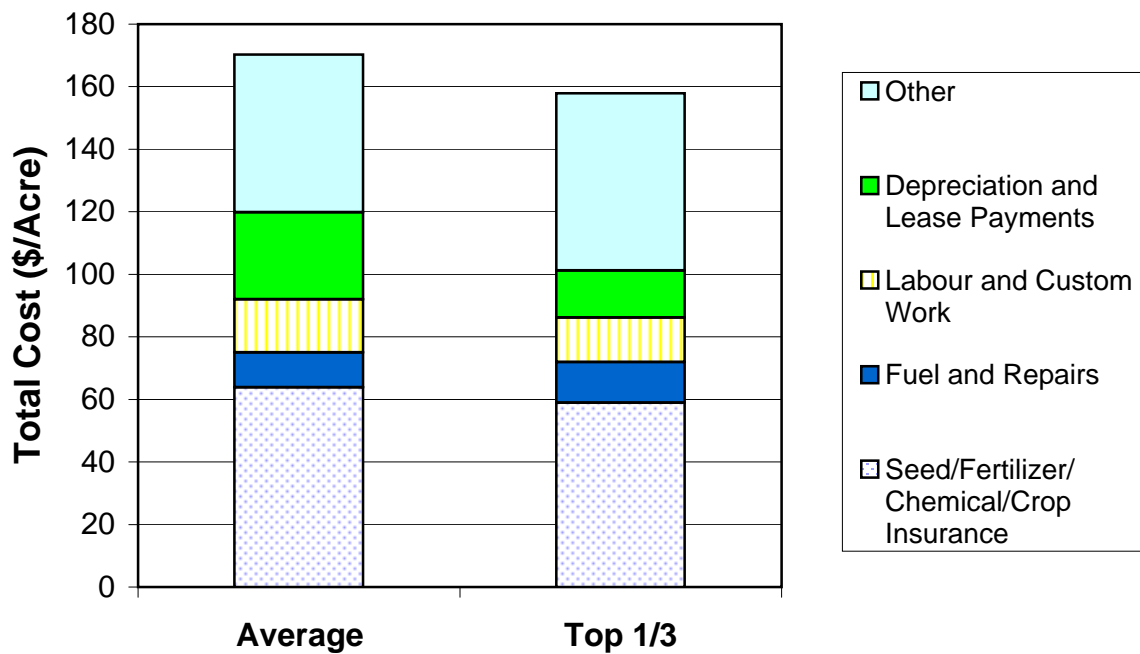
Malt Barley on Brown Soil Zones

Total Cost (\$/Bushel)



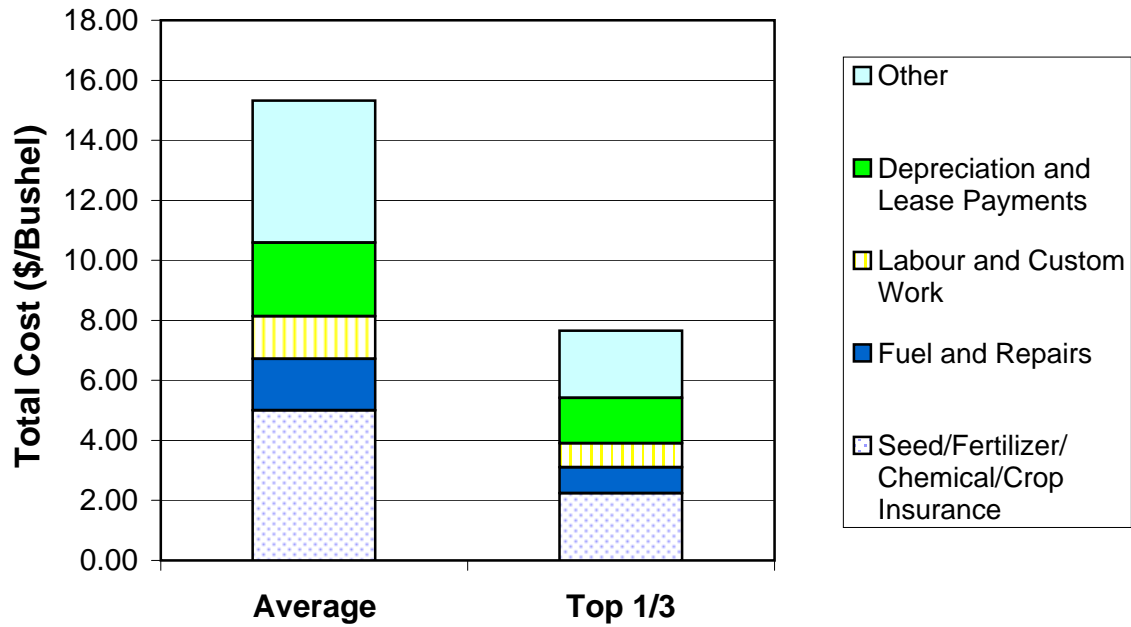
Malt Barley on Brown Soil Zones

Total Cost (\$/Acre)



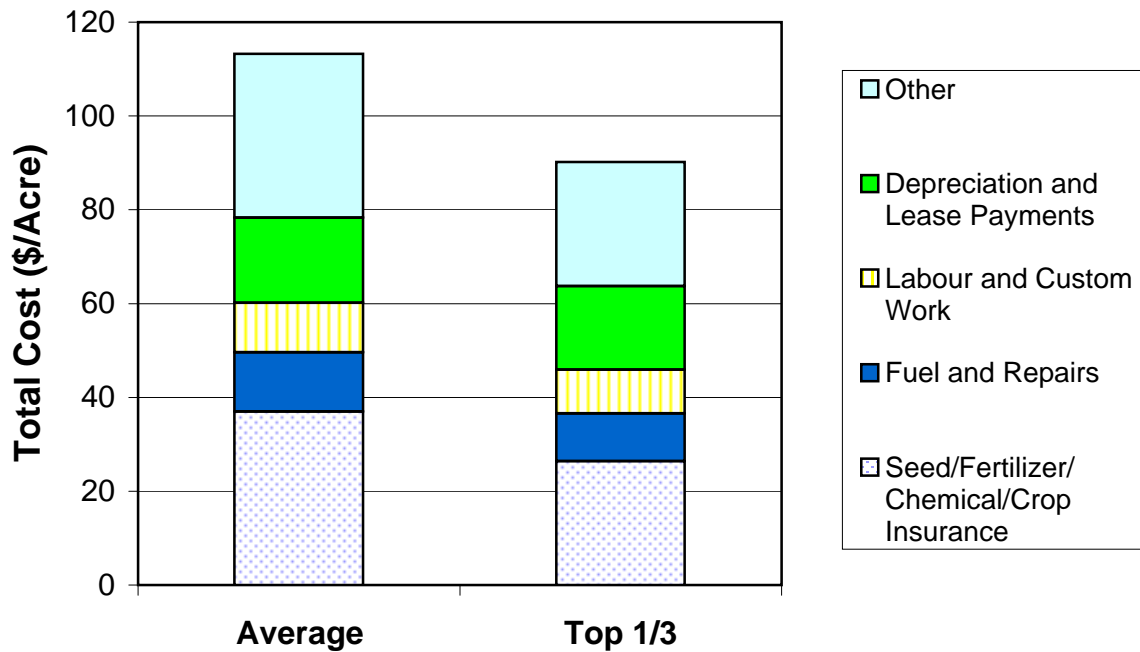
Feed Barley on Brown Soil Zones

Total Cost (\$/Bushel)



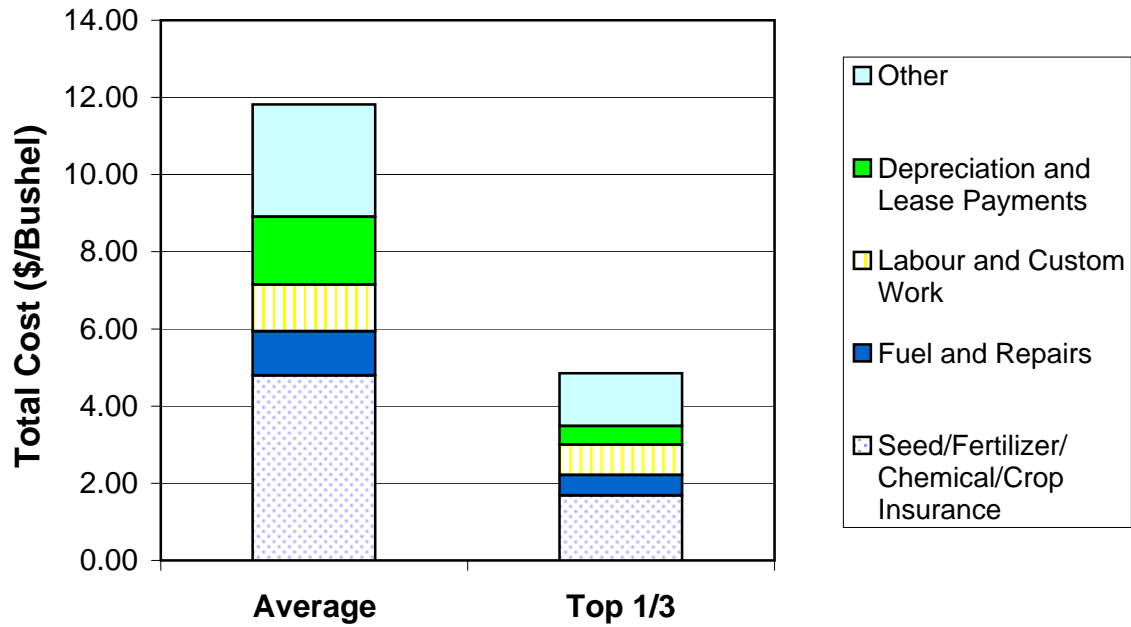
Feed Barley on Brown Soil Zones

Total Cost (\$/Acre)



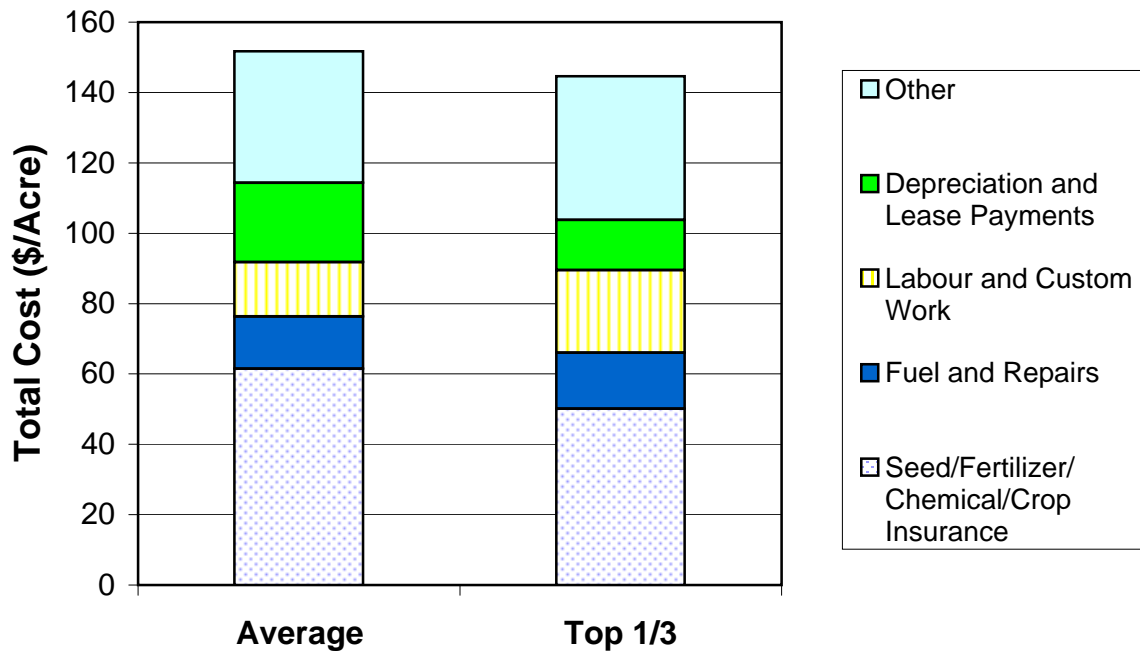
Field Peas on Brown Soil Zones

Total Cost (\$/Bushel)



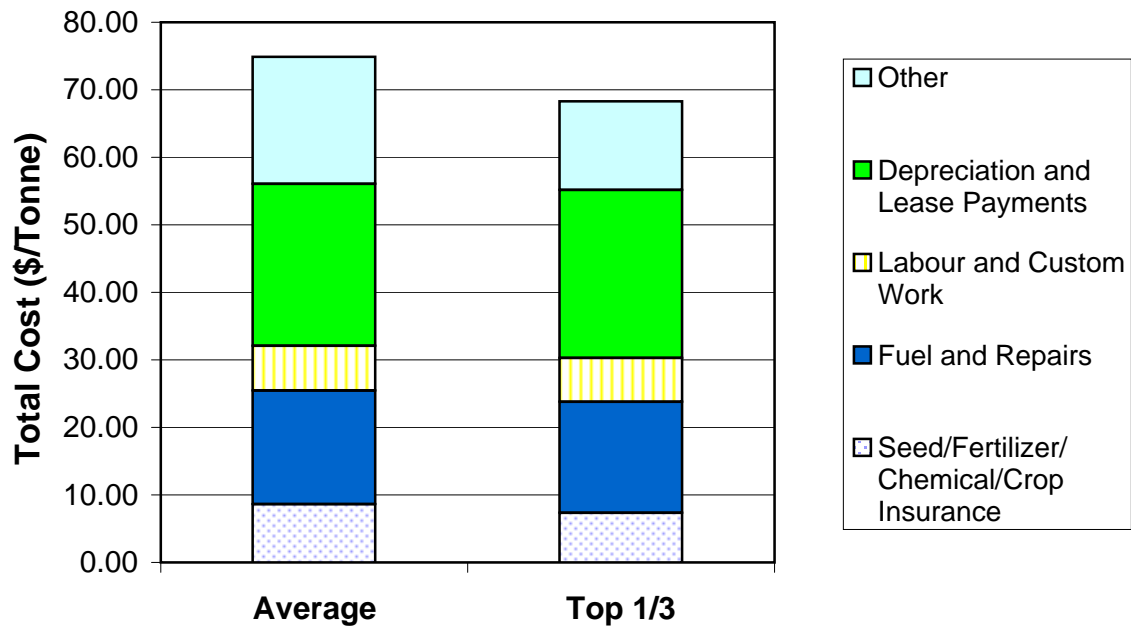
Field Peas on Brown Soil Zones

Total Cost (\$/Acre)



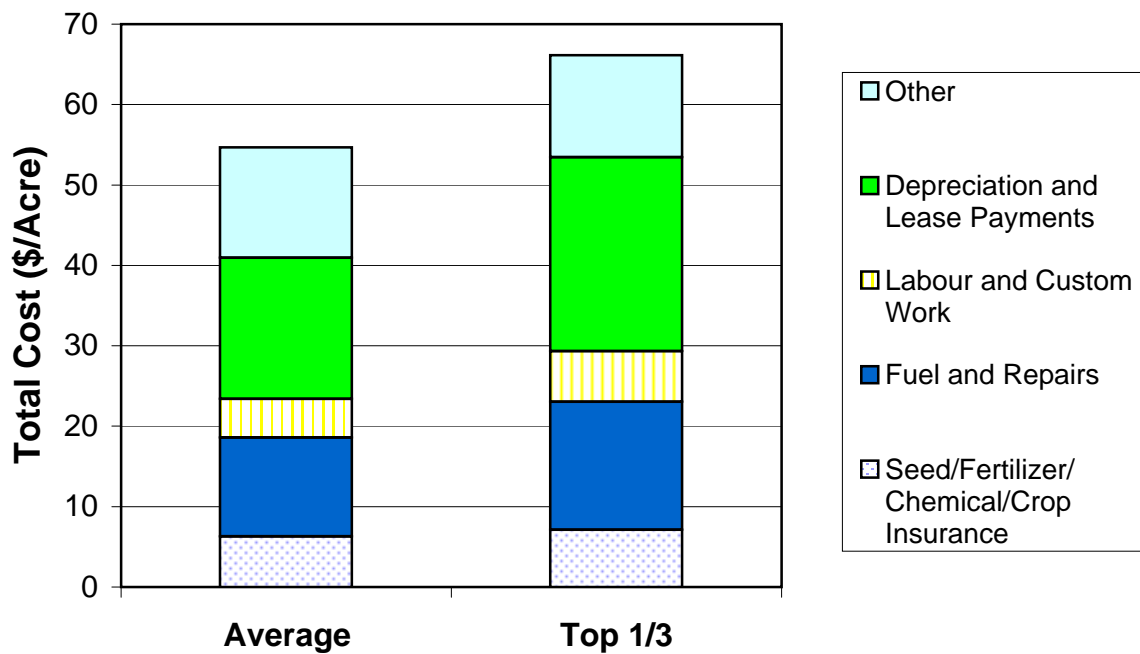
Alfalfa/Grass Hay on Brown Soil

Total Cost (\$/Tonne)



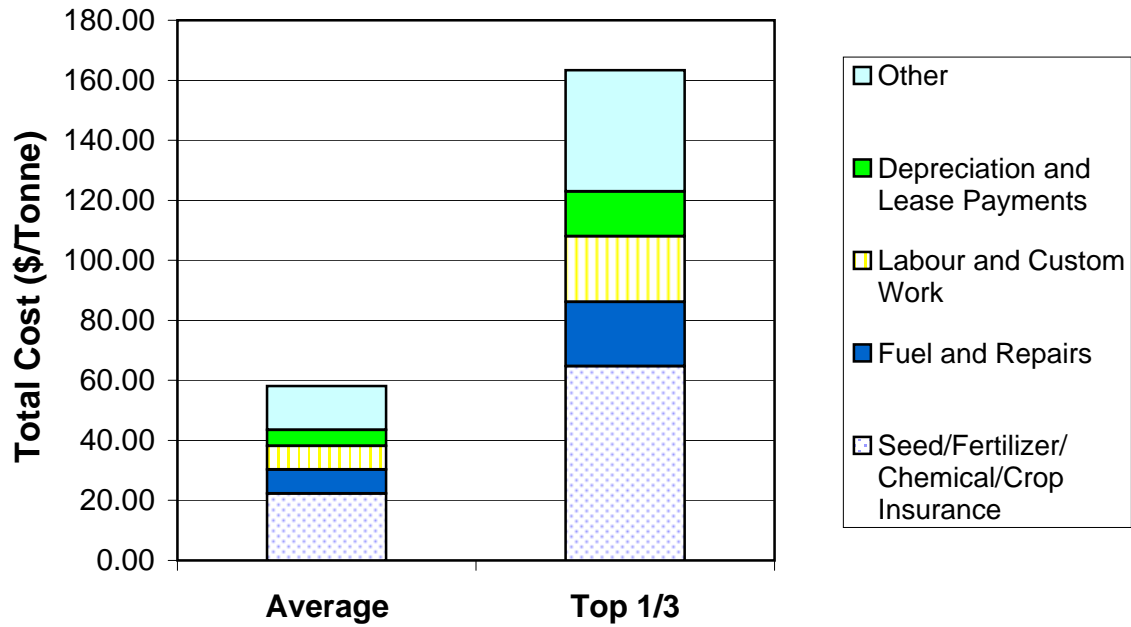
Alfalfa/Grass Hay on Brown Soil

Total Cost (\$/Acre)



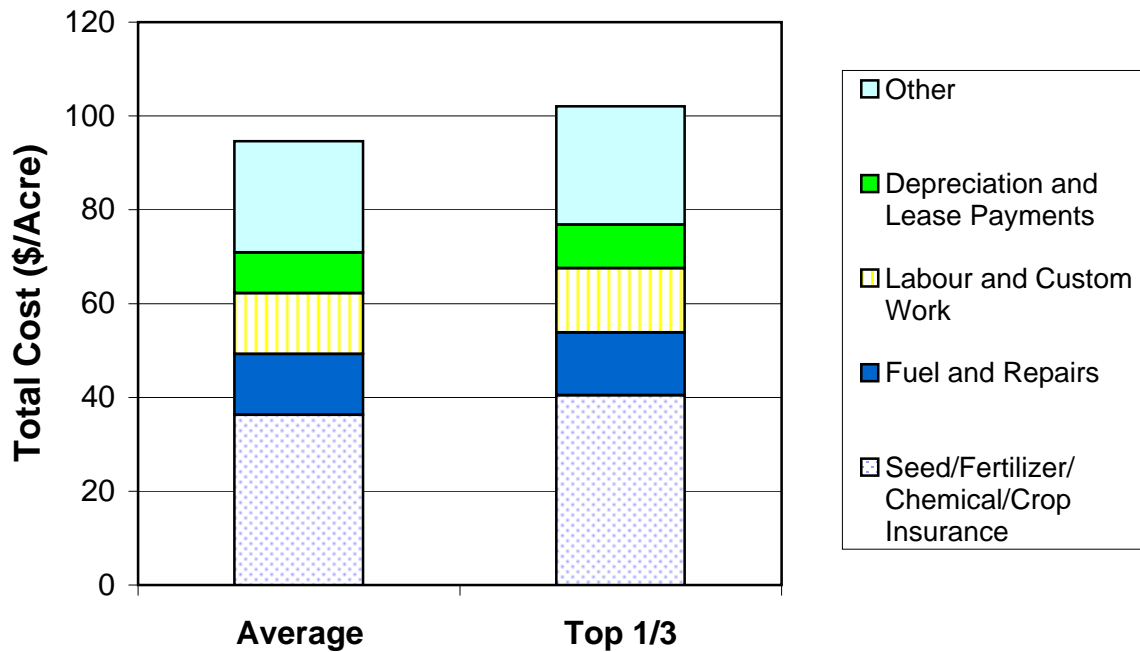
Greenfeed on Brown Soil Zones

Total Cost (\$/Tonne)



Greenfeed on Brown Soil Zones

Total Cost (\$/Acre)



Crop Enterprise Analysis

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

		----- \$/Acre -----		---- \$/Bushel ----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	133.24	220.83	5.72	5.83	
	2. Crop Insurance Receipts	45.72	8.49	1.96	0.22	
	3. Other Receipts	2.48	4.18	0.11	0.11	
	Gross Receipts	181.44	233.50	7.79	6.17	
<hr/>						
(B)	Cost Items					
	1. Seed	8.92	7.69	0.38	0.20	
	2. Fertilizer	16.97	20.07	0.73	0.53	
	3. Chemical	16.43	16.47	0.71	0.44	
	4. Hail/Crop Insurance Premium	8.10	8.13	0.35	0.21	
	5. Trucking and Marketing	1.42	0.63	0.06	0.02	
	6. Fuel	5.46	4.44	0.23	0.12	
	7. Irrigation Fuel and Electricity	0.00	0.00	0.00	0.00	
	8. Repairs - Machinery	5.30	4.96	0.23	0.13	
	9. Repairs - Buildings	2.22	3.02	0.10	0.08	
	10. Utilities and Miscellaneous	11.43	9.39	0.49	0.25	
	11. Custom Work	4.47	4.52	0.19	0.12	
	12. Operating Interest Paid	0.96	0.48	0.04	0.01	
	13. Paid Labour	3.89	6.05	0.17	0.16	
	14. Unpaid Labour	8.80	5.85	0.38	0.15	
	Variable Costs	94.36	91.71	4.05	2.42	
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(C)	1. Cash/ Share Land Rent	7.86	12.13	0.34	0.32	
	2. Taxes, Water Rates, License & Ins.	5.65	4.90	0.24	0.13	
	3. Equipment and Building:	a) Depreciation	19.08	14.57	0.82	0.38
		b) Lease Payments	2.59	1.72	0.11	0.05
	4. Paid Capital Interest	10.02	8.81	0.43	1.11	
	Capital Costs	45.19	42.14	1.94	1.99	
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(D)	Cash Costs	111.67	113.43	4.79	3.88	
(E)	Total Production Costs	139.55	133.85	5.99	4.42	
	Gross Margin	69.77	120.07	3.00	2.29	
	Return to Unpaid Labour	50.69	105.50	2.18	1.91	
	Return to Investment	51.91	108.46	2.23	2.86	
	Return to Equity	41.89	99.65	1.80	1.75	

Investment

Buildings	66.48	29.82
Machinery	182.47	149.18
Irrigation Machinery	0.00	0.00
Total (incl. Land)	948.45	856.45

Management

Average Yield	(Bushel/acre)	23.29	37.87
Expected Market Price	(\$/Bushel)	5.72	5.83

Crop Enterprise Analysis

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

		----- \$/Acre -----		---- \$/Bushel ----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	130.62	212.22	5.77	5.99	
	2. Crop Insurance Receipts	46.49	10.17	2.05	0.29	
	3. Other Receipts	2.69	5.40	0.12	0.15	
	Gross Receipts	179.80	227.79	7.95	6.42	
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(B)	Cost Items					
	1. Seed	8.86	7.44	0.39	0.21	
	2. Fertilizer	15.86	16.40	0.70	0.46	
	3. Chemical	17.08	14.52	0.75	0.41	
	4. Hail/Crop Insurance Premium	8.06	8.38	0.36	0.24	
	5. Trucking and Marketing	1.42	0.54	0.06	0.02	
	6. Fuel	5.49	4.35	0.24	0.12	
	7. Irrigation Fuel and Electricity	0.00	0.00	0.00	0.00	
	8. Repairs - Machinery	5.18	4.88	0.23	0.14	
	9. Repairs - Buildings	2.42	1.59	0.11	0.04	
	10. Utilities and Miscellaneous	11.55	10.75	0.51	0.30	
	11. Custom Work	4.65	3.39	0.21	0.10	
	12. Operating Interest Paid	0.95	0.31	0.04	0.01	
	13. Paid Labour	3.80	2.87	0.17	0.08	
	14. Unpaid Labour	8.88	6.66	0.39	0.19	
Variable Costs	94.22	82.09	4.16	2.32		
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(C)	1. Cash/ Share Land Rent	0.00	0.00	0.00	0.00	
	2. Taxes, Water Rates, License & Ins.	6.22	4.88	0.28	0.14	
	3. Equipment and Building:	a) Depreciation	19.31	13.12	0.85	0.37
		b) Lease Payments	2.60	2.36	0.12	0.07
	4. Paid Capital Interest	11.35	4.73	0.50	0.71	
Capital Costs	39.48	25.09	1.75	1.28		
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(D)	Cash Costs	105.51	87.40	4.66	3.04	
(E)	Total Production Costs	133.70	107.18	5.91	3.60	
	Gross Margin	74.29	140.39	3.28	3.39	
	Return to Unpaid Labour	54.98	127.27	2.43	3.02	
	Return to Investment	57.44	125.33	2.54	3.54	
	Return to Equity	46.10	120.61	2.04	2.83	

Investment

Buildings	70.66	33.52
Machinery	182.88	130.93
Irrigation Machinery	0.00	0.00
Total (incl. Land)	1068.08	915.98

Management

Average Yield	(Bushel/acre)	22.62	35.45
Expected Market Price	(\$/Bushel)	5.77	5.99

Crop Enterprise Analysis

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

		----- \$/Acre -----		---- \$/Bushel ----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	149.23	--	5.46	--
	2. Crop Insurance Receipts	41.06	--	1.50	--
	3. Other Receipts	1.17	--	0.04	--
	Gross Receipts	191.45	0.00	7.00	0.00
(B)	Cost Items				
	1. Seed	9.26	--	0.34	--
	2. Fertilizer	23.69	--	0.87	--
	3. Chemical	12.49	--	0.46	--
	4. Hail/Crop Insurance Premium	8.30	--	0.30	--
	5. Trucking and Marketing	1.45	--	0.05	--
	6. Fuel	5.23	--	0.19	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	6.02	--	0.22	--
	9. Repairs - Buildings	0.98	--	0.04	--
	10. Utilities and Miscellaneous	10.70	--	0.39	--
	11. Custom Work	3.34	--	0.12	--
	12. Operating Interest Paid	1.03	--	0.04	--
	13. Paid Labour	4.40	--	0.16	--
	14. Unpaid Labour	8.32	--	0.30	--
	Variable Costs	95.22	0.00	3.48	0.00
(C)	1. Cash/ Share Land Rent	55.64	--	2.03	--
	2. Taxes, Water Rates, License & Ins.	2.18	--	0.08	--
	3. Equipment and Building: a) Depreciation	17.69	--	0.65	--
	b) Lease Payments	2.47	--	0.09	--
	4. Paid Capital Interest	1.93	--	0.07	--
	Capital Costs	79.91	0.00	2.92	0.00
(D)	Cash Costs (B+C-B14-C3a)	149.11	--	5.45	--
(E)	Total Production Costs (B+C)	175.12	--	6.40	--
	Gross Margin (A-D)	42.35	--	1.55	--
	Return to Unpaid Labour (A-E+B14)	24.65	--	0.90	--
	Return to Investment (A-E+C4)	18.26	--	0.67	--
	Return to Equity (A-E)	16.33	--	0.60	--

Investment

Buildings	41.06	--
Machinery	179.97	--
Irrigation Machinery	0.00	--
Total (incl. Land)	221.03	--

Management

Average Yield	(Bushel/acre)	27.34	--
Expected Market Price	(\$/Bushel)	5.46	--

Crop Enterprise Analysis

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

		----- \$/Acre -----		---- \$/Bushel ----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	158.42	260.77	6.12	6.53
	2. Crop Insurance Receipts	21.12	0.00	0.82	0.00
	3. Other Receipts	1.10	3.09	0.04	0.08
	Gross Receipts	180.64	263.86	6.98	6.61
(B)	Cost Items				
	1. Seed	9.26	10.13	0.36	0.25
	2. Fertilizer	12.31	17.03	0.48	0.43
	3. Chemical	13.74	13.45	0.53	0.34
	4. Hail/Crop Insurance Premium	8.00	8.60	0.31	0.22
	5. Trucking and Marketing	0.34	0.10	0.01	0.00
	6. Fuel	4.84	4.74	0.19	0.12
	7. Irrigation Fuel and Electricity	0.00	0.00	0.00	0.00
	8. Repairs - Machinery	5.48	3.72	0.21	0.09
	9. Repairs - Buildings	1.91	1.90	0.07	0.05
	10. Utilities and Miscellaneous	8.90	12.64	0.34	0.32
	11. Custom Work	1.84	0.58	0.07	0.01
	12. Operating Interest Paid	0.98	0.34	0.04	0.01
	13. Paid Labour	2.53	1.32	0.10	0.03
	14. Unpaid Labour	9.43	6.97	0.36	0.17
	Variable Costs	79.55	81.53	3.07	2.04
(C)	1. Cash/ Share Land Rent	13.17	0.00	0.51	0.00
	2. Taxes, Water Rates, License & Ins.	4.13	5.13	0.16	0.13
	3. Equipment and Building: a) Depreciation	11.84	15.52	0.46	0.39
	b) Lease Payments	2.82	3.84	0.11	0.10
	4. Paid Capital Interest	8.95	3.01	0.35	0.69
	Capital Costs	40.91	27.49	1.58	1.30
(D)	Cash Costs (B+C-B14-C3a)	99.19	86.53	3.83	2.78
(E)	Total Production Costs (B+C)	120.46	109.02	4.65	3.35
	Gross Margin (A-D)	81.45	177.33	3.15	3.83
	Return to Unpaid Labour (A-E+B14)	69.62	161.81	2.69	3.44
	Return to Investment (A-E+C4)	69.14	157.85	2.67	3.96
	Return to Equity (A-E)	60.19	154.84	2.32	3.27

Investment

Buildings	42.80	68.38
Machinery	112.64	140.54
Irrigation Machinery	0.00	0.00
Total (incl. Land)	588.09	951.59

Management

Average Yield	(Bushel/acre)	25.89	39.91
Expected Market Price	(\$/Bushel)	6.12	6.53

Crop Enterprise Analysis

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

		----- \$/Acre -----		---- \$/Bushel ----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	181.64	271.13	6.25	6.56	
	2. Crop Insurance Receipts	18.27	0.00	0.63	0.00	
	3. Other Receipts	1.56	0.56	0.05	0.01	
	Gross Receipts	201.47	271.69	6.93	6.57	
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(B)	Cost Items					
	1. Seed	9.43	10.29	0.32	0.25	
	2. Fertilizer	14.26	17.21	0.49	0.42	
	3. Chemical	13.65	12.86	0.47	0.31	
	4. Hail/Crop Insurance Premium	7.91	8.91	0.27	0.22	
	5. Trucking and Marketing	0.31	0.11	0.01	0.00	
	6. Fuel	4.86	4.45	0.17	0.11	
	7. Irrigation Fuel and Electricity	0.00	0.00	0.00	0.00	
	8. Repairs - Machinery	5.17	3.49	0.18	0.08	
	9. Repairs - Buildings	2.41	2.05	0.08	0.05	
	10. Utilities and Miscellaneous	10.15	11.69	0.35	0.28	
	11. Custom Work	1.84	0.00	0.06	0.00	
	12. Operating Interest Paid	0.96	0.26	0.03	0.01	
	13. Paid Labour	3.06	1.47	0.11	0.04	
	14. Unpaid Labour	8.56	6.65	0.29	0.16	
	Variable Costs	82.56	79.47	2.84	1.92	
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(C)	1. Cash/ Share Land Rent	0.00	0.00	0.00	0.00	
	2. Taxes, Water Rates, License & Ins.	5.19	5.00	0.18	0.12	
	3. Equipment and Building:	a) Depreciation	13.26	15.43	0.46	0.37
		b) Lease Payments	3.02	4.28	0.10	0.10
	4. Paid Capital Interest	12.58	2.49	0.43	0.66	
	Capital Costs	34.05	27.20	1.17	1.26	
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(D)	Cash Costs	94.80	84.59	3.26	2.64	
(E)	Total Production Costs	116.62	106.67	4.01	3.18	
	Gross Margin	106.67	187.10	3.67	3.93	
	Return to Unpaid Labour	93.41	171.67	3.21	3.55	
	Return to Investment	97.44	167.51	3.35	4.05	
	Return to Equity	84.85	165.01	2.92	3.39	

Investment

Buildings	48.85	66.79
Machinery	125.44	141.09
Irrigation Machinery	0.00	0.00
Total (incl. Land)	821.38	937.55

Management

Average Yield	(Bushel/acre)	29.06	41.35
Expected Market Price	(\$/Bushel)	6.25	6.56

Crop Enterprise Analysis

Crop: *Durum - Rent*
Soil Zone: *Dark Brown - Dryland*
Unit: *Bushel*

		----- \$/Acre -----		---- \$/Bushel ----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	111.56	--	5.73	--	
	2. Crop Insurance Receipts	26.88	--	1.38	--	
	3. Other Receipts	0.19	--	0.01	--	
	Gross Receipts	138.63	0.00	7.12	0.00	
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(B)	Cost Items					
	1. Seed	8.90	--	0.46	--	
	2. Fertilizer	8.38	--	0.43	--	
	3. Chemical	13.92	--	0.71	--	
	4. Hail/Crop Insurance Premium	8.18	--	0.42	--	
	5. Trucking and Marketing	0.41	--	0.02	--	
	6. Fuel	4.79	--	0.25	--	
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--	
	8. Repairs - Machinery	6.10	--	0.31	--	
	9. Repairs - Buildings	0.91	--	0.05	--	
	10. Utilities and Miscellaneous	6.37	--	0.33	--	
	11. Custom Work	1.85	--	0.09	--	
	12. Operating Interest Paid	1.04	--	0.05	--	
	13. Paid Labour	1.44	--	0.07	--	
	14. Unpaid Labour	11.19	--	0.57	--	
Variable Costs	73.47	0.00	3.77	0.00		
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(C)	1. Cash/ Share Land Rent	39.73	--	2.04	--	
	2. Taxes, Water Rates, License & Ins.	1.99	--	0.10	--	
	3. Equipment and Building:	a) Depreciation	8.97	--	0.46	--
		b) Lease Payments	2.42	--	0.12	--
	4. Paid Capital Interest	1.62	--	0.08	--	
Capital Costs	54.73	0.00	2.81	0.00		
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(D)	Cash Costs	108.04	--	5.55	--	
(E)	Total Production Costs	128.21	--	6.58	--	
	Gross Margin	30.58	--	1.57	--	
	Return to Unpaid Labour	21.61	--	1.11	--	
	Return to Investment	12.04	--	0.62	--	
	Return to Equity	10.42	--	0.53	--	

Investment

Buildings	30.59	--
Machinery	86.82	--
Irrigation Machinery	0.00	--
Total (incl. Land)	117.41	--

Management

Average Yield	(Bushel/acre)	19.48	--
Expected Market Price	(\$/Bushel)	5.73	--

Crop Enterprise Analysis

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

		----- \$/Acre -----		---- \$/Bushel ----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	156.80	--	4.90	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	4.68	--	0.15	--
	Gross Receipts	161.48	0.00	5.05	0.00
(B)	Cost Items				
	1. Seed	13.40	--	0.42	--
	2. Fertilizer	28.50	--	0.89	--
	3. Chemical	24.25	--	0.76	--
	4. Hail/Crop Insurance Premium	5.95	--	0.19	--
	5. Trucking and Marketing	2.06	--	0.06	--
	6. Fuel	4.46	--	0.14	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	4.16	--	0.13	--
	9. Repairs - Buildings	0.13	--	0.00	--
	10. Utilities and Miscellaneous	9.49	--	0.30	--
	11. Custom Work	8.50	--	0.27	--
	12. Operating Interest Paid	3.92	--	0.12	--
	13. Paid Labour	0.00	--	0.00	--
	14. Unpaid Labour	13.31	--	0.42	--
	Variable Costs	118.12	0.00	3.69	0.00
(C)	1. Cash/ Share Land Rent	29.66	--	0.93	--
	2. Taxes, Water Rates, License & Ins.	3.88	--	0.12	--
	3. Equipment and Building: a) Depreciation	16.65	--	0.52	--
	b) Lease Payments	17.63	--	0.55	--
	4. Paid Capital Interest	10.33	--	0.32	--
	Capital Costs	78.15	0.00	2.44	0.00
(D)	Cash Costs (B+C-B14-C3a)	166.32	--	5.20	--
(E)	Total Production Costs (B+C)	196.27	--	6.13	--
	Gross Margin (A-D)	(4.84)	--	(0.15)	--
	Return to Unpaid Labour (A-E+B14)	(21.49)	--	(0.67)	--
	Return to Investment (A-E+C4)	(24.46)	--	(0.76)	--
	Return to Equity (A-E)	(34.79)	--	(1.09)	--

Investment

Buildings	95.24	--
Machinery	158.34	--
Irrigation Machinery	0.00	--
Total (incl. Land)	413.75	--

Management

Average Yield	(Bushel/acre)	32.00	--
Expected Market Price	(\$/Bushel)	4.90	--

Crop Enterprise Analysis

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

		----- \$/Acre -----		---- \$/Bushel ----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	41.10	--	5.32	--
	2. Crop Insurance Receipts	102.32	--	13.24	--
	3. Other Receipts	1.04	--	0.13	--
	Gross Receipts	144.45	0.00	18.70	0.00
(B)	Cost Items				
	1. Seed	15.82	--	2.05	--
	2. Fertilizer	24.07	--	3.12	--
	3. Chemical	22.66	--	2.93	--
	4. Hail/Crop Insurance Premium	5.42	--	0.70	--
	5. Trucking and Marketing	3.61	--	0.47	--
	6. Fuel	6.36	--	0.82	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	4.89	--	0.63	--
	9. Repairs - Buildings	0.42	--	0.05	--
	10. Utilities and Miscellaneous	5.52	--	0.71	--
	11. Custom Work	1.33	--	0.17	--
	12. Operating Interest Paid	2.36	--	0.30	--
	13. Paid Labour	0.61	--	0.08	--
	14. Unpaid Labour	9.30	--	1.20	--
	Variable Costs	102.36	0.00	13.25	0.00
(C)	1. Cash/ Share Land Rent	15.19	--	1.97	--
	2. Taxes, Water Rates, License & Ins.	4.09	--	0.53	--
	3. Equipment and Building: a) Depreciation	19.35	--	2.51	--
	b) Lease Payments	4.23	--	0.55	--
4. Paid Capital Interest	13.22	--	1.71	--	
	Capital Costs	56.09	0.00	7.26	0.00
(D)	Cash Costs (B+C-B14-C3a)	129.79	--	16.80	--
(E)	Total Production Costs (B+C)	158.45	--	20.51	--
	Gross Margin (A-D)	14.66	--	1.90	--
	Return to Unpaid Labour (A-E+B14)	(4.70)	--	(0.61)	--
	Return to Investment (A-E+C4)	(0.78)	--	(0.10)	--
	Return to Equity (A-E)	(14.00)	--	(1.81)	--

Investment

Buildings	53.10	--
Machinery	193.38	--
Irrigation Machinery	0.00	--
Total (incl. Land)	714.10	--

Management

Average Yield (Bushel/acre)	7.73	--
Expected Market Price (\$/Bushel)	5.32	--

Crop Enterprise Analysis

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

		----- \$/Acre -----		---- \$/Bushel ----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	43.76	--	5.17	--
	2. Crop Insurance Receipts	125.52	--	14.82	--
	3. Other Receipts	0.73	--	0.09	--
	Gross Receipts	170.01	0.00	20.07	0.00
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(B)	Cost Items				
	1. Seed	15.64	--	1.85	--
	2. Fertilizer	26.19	--	3.09	--
	3. Chemical	23.34	--	2.76	--
	4. Hail/Crop Insurance Premium	6.25	--	0.74	--
	5. Trucking and Marketing	2.35	--	0.28	--
	6. Fuel	5.37	--	0.63	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	5.34	--	0.63	--
	9. Repairs - Buildings	0.62	--	0.07	--
	10. Utilities and Miscellaneous	7.05	--	0.83	--
	11. Custom Work	2.69	--	0.32	--
	12. Operating Interest Paid	2.28	--	0.27	--
	13. Paid Labour	1.23	--	0.15	--
	14. Unpaid Labour	10.72	--	1.27	--
Variable Costs	109.08	0.00	12.88	0.00	
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(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	6.71	--	0.79	--
	3. Equipment and Building:	18.03	--	2.13	--
		6.32	--	0.75	--
	4. Paid Capital Interest	20.47	--	2.42	--
Capital Costs	51.53	0.00	6.08	0.00	
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(D)	Cash Costs	131.85	--	15.57	--
(E)	Total Production Costs	160.61	--	18.96	--
	Gross Margin	38.15	--	4.50	--
	Return to Unpaid Labour	20.12	--	2.38	--
	Return to Investment	29.87	--	3.53	--
	Return to Equity	9.40	--	1.11	--

Investment

Buildings	62.41	--
Machinery	173.13	--
Irrigation Machinery	0.00	--
Total (incl. Land)	1183.02	--

Management

Average Yield	(Bushel/acre)	8.47	--
Expected Market Price	(\$/Bushel)	5.17	--

Crop Enterprise Analysis

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

		----- \$/Acre -----		---- \$/Bushel ----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	109.18	158.80	4.09	4.07	
	2. Crop Insurance Receipts	91.93	87.99	3.45	2.26	
	3. Other Receipts	0.47	0.85	0.02	0.02	
	Gross Receipts	201.58	247.64	7.55	6.35	
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(B)	Cost Items					
	1. Seed	11.35	9.47	0.43	0.24	
	2. Fertilizer	26.11	23.24	0.98	0.60	
	3. Chemical	20.63	22.19	0.77	0.57	
	4. Hail/Crop Insurance Premium	5.76	4.06	0.22	0.10	
	5. Trucking and Marketing	1.63	0.91	0.06	0.02	
	6. Fuel	5.12	4.87	0.19	0.12	
	7. Irrigation Fuel and Electricity	0.00	0.00	0.00	0.00	
	8. Repairs - Machinery	5.46	6.99	0.20	0.18	
	9. Repairs - Buildings	0.56	1.15	0.02	0.03	
	10. Utilities and Miscellaneous	10.32	6.26	0.39	0.16	
	11. Custom Work	3.01	0.00	0.11	0.00	
	12. Operating Interest Paid	1.80	0.45	0.07	0.01	
	13. Paid Labour	4.01	5.85	0.15	0.15	
	14. Unpaid Labour	9.98	8.32	0.37	0.21	
Variable Costs	105.77	93.75	3.96	2.40		
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(C)	1. Cash/ Share Land Rent	19.29	39.84	0.72	1.02	
	2. Taxes, Water Rates, License & Ins.	5.42	4.02	0.20	0.10	
	3. Equipment and Building:	a) Depreciation	21.38	15.11	0.80	0.39
		b) Lease Payments	6.46	0.00	0.24	0.00
	4. Paid Capital Interest	11.94	5.14	0.45	1.64	
Capital Costs	64.48	64.10	2.42	3.15		
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(D)	Cash Costs	(B+C-B14-C3a)	138.89	134.42	5.21	4.96
(E)	Total Production Costs	(B+C)	170.25	157.85	6.38	5.56
	Gross Margin	(A-D)	62.69	113.22	2.35	1.39
	Return to Unpaid Labour	(A-E+B14)	41.31	98.11	1.55	1.00
	Return to Investment	(A-E+C4)	43.26	94.93	1.62	2.43
	Return to Equity	(A-E)	31.33	89.79	1.17	0.79

Investment

Buildings	63.73	30.50
Machinery	213.52	147.04
Irrigation Machinery	0.00	0.00
Total (incl. Land)	927.44	559.51

Management

Average Yield	(Bushel/acre)	26.68	39.02
Expected Market Price	(\$/Bushel)	4.09	4.07

Crop Enterprise Analysis

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

		----- \$/Acre -----		---- \$/Bushel ----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	83.66	132.37	4.19	4.30	
	2. Crop Insurance Receipts	98.31	87.10	4.92	2.83	
	3. Other Receipts	0.40	0.53	0.02	0.02	
	Gross Receipts	182.37	220.00	9.13	7.14	
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(B)	Cost Items					
	1. Seed	11.55	8.92	0.58	0.29	
	2. Fertilizer	25.71	19.67	1.29	0.64	
	3. Chemical	20.41	20.84	1.02	0.68	
	4. Hail/Crop Insurance Premium	6.76	7.62	0.34	0.25	
	5. Trucking and Marketing	1.74	0.54	0.09	0.02	
	6. Fuel	5.26	5.07	0.26	0.16	
	7. Irrigation Fuel and Electricity	0.00	0.00	0.00	0.00	
	8. Repairs - Machinery	5.17	6.43	0.26	0.21	
	9. Repairs - Buildings	0.46	0.92	0.02	0.03	
	10. Utilities and Miscellaneous	12.06	14.04	0.60	0.46	
	11. Custom Work	3.19	0.00	0.16	0.00	
	12. Operating Interest Paid	1.96	0.34	0.10	0.01	
	13. Paid Labour	3.77	7.12	0.19	0.23	
	14. Unpaid Labour	10.33	8.94	0.52	0.29	
	Variable Costs	108.36	100.46	5.42	3.26	
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(C)	1. Cash/ Share Land Rent	0.00	0.00	0.00	0.00	
	2. Taxes, Water Rates, License & Ins.	7.01	7.32	0.35	0.24	
	3. Equipment and Building:	a) Depreciation	24.55	27.73	1.23	0.90
		b) Lease Payments	6.94	0.00	0.35	0.00
	4. Paid Capital Interest	16.62	6.96	0.83	1.36	
	Capital Costs	55.12	42.00	2.76	2.50	
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(D)	Cash Costs	(B+C-B14-C3a)	128.60	105.79	6.44	4.57
(E)	Total Production Costs	(B+C)	163.47	142.46	8.18	5.76
	Gross Margin	(A-D)	53.77	114.21	2.69	2.57
	Return to Unpaid Labour	(A-E+B14)	29.22	86.48	1.46	1.67
	Return to Investment	(A-E+C4)	35.52	84.50	1.78	2.74
	Return to Equity	(A-E)	18.89	77.54	0.95	1.38

Investment

Buildings	72.48	56.98
Machinery	246.18	278.70
Irrigation Machinery	0.00	0.00
Total (incl. Land)	1305.82	1291.87

Management

Average Yield	(Bushel/acre)	19.98	30.79
Expected Market Price	(\$/Bushel)	4.19	4.30

Crop Enterprise Analysis

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

		----- \$/Acre -----		---- \$/Bushel ----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	158.43	--	4.00	--
	2. Crop Insurance Receipts	79.61	--	2.01	--
	3. Other Receipts	0.60	--	0.02	--
	Gross Receipts	238.63	0.00	6.02	0.00
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(B)	Cost Items				
	1. Seed	10.97	--	0.28	--
	2. Fertilizer	26.89	--	0.68	--
	3. Chemical	21.05	--	0.53	--
	4. Hail/Crop Insurance Premium	3.83	--	0.10	--
	5. Trucking and Marketing	1.41	--	0.04	--
	6. Fuel	4.87	--	0.12	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	6.03	--	0.15	--
	9. Repairs - Buildings	0.76	--	0.02	--
	10. Utilities and Miscellaneous	6.97	--	0.18	--
	11. Custom Work	2.67	--	0.07	--
	12. Operating Interest Paid	1.50	--	0.04	--
	13. Paid Labour	4.47	--	0.11	--
	14. Unpaid Labour	9.32	--	0.24	--
Variable Costs	100.76	0.00	2.54	0.00	
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(C)	1. Cash/ Share Land Rent	56.51	--	1.43	--
	2. Taxes, Water Rates, License & Ins.	2.35	--	0.06	--
	3. Equipment and Building:	15.26	--	0.39	--
		5.54	--	0.14	--
	4. Paid Capital Interest	2.90	--	0.07	--
Capital Costs	82.56	0.00	2.08	0.00	
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(D)	Cash Costs	158.75	--	4.01	--
(E)	Total Production Costs	183.32	--	4.63	--
	Gross Margin	79.89	--	2.02	--
	Return to Unpaid Labour	64.63	--	1.63	--
	Return to Investment	58.21	--	1.47	--
	Return to Equity	55.31	--	1.40	--

Investment

Buildings	46.83	--
Machinery	150.51	--
Irrigation Machinery	0.00	--
Total (incl. Land)	197.34	--

Management

Average Yield	(Bushel/acre)	39.62	--
Expected Market Price	(\$/Bushel)	4.00	--

Crop Enterprise Analysis

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

		----- \$/Acre -----		---- \$/Bushel ----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	29.96	47.10	4.05	4.00
	2. Crop Insurance Receipts	96.41	125.21	13.04	10.63
	3. Other Receipts	5.82	5.41	0.79	0.46
Gross Receipts		132.18	177.72	17.88	15.09
(B)	Cost Items				
	1. Seed	9.01	7.14	1.22	0.61
	2. Fertilizer	11.98	6.39	1.62	0.54
	3. Chemical	10.75	5.34	1.45	0.45
	4. Hail/Crop Insurance Premium	5.22	7.54	0.71	0.64
	5. Trucking and Marketing	2.16	0.41	0.29	0.03
	6. Fuel	5.54	3.35	0.75	0.28
	7. Irrigation Fuel and Electricity	0.00	0.00	0.00	0.00
	8. Repairs - Machinery	5.90	5.70	0.80	0.48
	9. Repairs - Buildings	1.21	1.08	0.16	0.09
	10. Utilities and Miscellaneous	7.51	10.20	1.02	0.87
	11. Custom Work	3.03	5.10	0.41	0.43
	12. Operating Interest Paid	1.34	0.47	0.18	0.04
	13. Paid Labour	1.11	2.13	0.15	0.18
	14. Unpaid Labour	6.39	2.14	0.86	0.18
Variable Costs		71.16	56.99	9.63	4.84
(C)	1. Cash/ Share Land Rent	11.46	0.00	1.55	0.00
	2. Taxes, Water Rates, License & Ins.	3.36	4.72	0.45	0.40
	3. Equipment and Building: a) Depreciation	17.16	17.40	2.32	1.48
	b) Lease Payments	0.98	0.42	0.13	0.04
	4. Paid Capital Interest	9.14	10.65	1.24	2.82
Capital Costs		42.10	33.20	5.69	4.73
(D)	Cash Costs	89.71	70.65	12.14	7.91
(E)	Total Production Costs	113.26	90.19	15.32	9.57
	Gross Margin	42.48	107.07	5.75	7.18
	Return to Unpaid Labour	25.32	89.67	3.42	5.70
	Return to Investment	28.06	98.18	3.80	8.34
	Return to Equity	18.92	87.53	2.56	5.52

Investment

Buildings	63.15	89.27
Machinery	159.58	149.02
Irrigation Machinery	0.00	0.00
Total (incl. Land)	606.16	886.01

Management

Average Yield	(Bushel/acre)	7.39	11.78
Expected Market Price	(\$/Bushel)	4.05	4.00

Crop Enterprise Analysis

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

		----- \$/Acre -----		---- \$/Bushel ----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	40.52	32.65	3.97	4.00	
	2. Crop Insurance Receipts	92.86	161.79	9.11	19.82	
	3. Other Receipts	8.59	0.49	0.84	0.06	
	Gross Receipts	141.97	194.92	13.93	23.88	
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(B)	Cost Items					
	1. Seed	7.17	8.73	0.70	1.07	
	2. Fertilizer	5.79	9.38	0.57	1.15	
	3. Chemical	5.04	6.44	0.49	0.79	
	4. Hail/Crop Insurance Premium	6.03	8.93	0.59	1.09	
	5. Trucking and Marketing	0.51	0.45	0.05	0.05	
	6. Fuel	4.44	3.90	0.44	0.48	
	7. Irrigation Fuel and Electricity	0.00	0.00	0.00	0.00	
	8. Repairs - Machinery	6.80	5.14	0.67	0.63	
	9. Repairs - Buildings	1.83	1.55	0.18	0.19	
	10. Utilities and Miscellaneous	9.66	10.51	0.95	1.29	
	11. Custom Work	4.91	0.00	0.48	0.00	
	12. Operating Interest Paid	0.66	0.28	0.07	0.03	
	13. Paid Labour	1.79	1.65	0.18	0.20	
	14. Unpaid Labour	5.45	3.14	0.53	0.38	
	Variable Costs	60.08	60.09	5.89	7.36	
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(C)	1. Cash/ Share Land Rent	0.00	0.00	0.00	0.00	
	2. Taxes, Water Rates, License & Ins.	4.48	5.15	0.44	0.63	
	3. Equipment and Building:	a) Depreciation	15.01	23.30	1.47	2.85
		b) Lease Payments	0.23	0.62	0.02	0.08
	4. Paid Capital Interest	10.98	10.74	1.08	4.88	
	Capital Costs	30.70	39.80	3.01	8.44	
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(D)	Cash Costs	70.32	73.46	6.90	12.56	
(E)	Total Production Costs	90.78	99.89	8.91	15.80	
	Gross Margin	71.65	121.47	7.03	11.32	
	Return to Unpaid Labour	56.64	98.17	5.56	8.47	
	Return to Investment	62.17	105.77	6.10	12.96	
	Return to Equity	51.19	95.03	5.02	8.08	

Investment

Buildings	74.98	126.04
Machinery	126.49	196.54
Irrigation Machinery	0.00	0.00
Total (incl. Land)	821.88	1115.36

Management

Average Yield	(Bushel/acre)	10.19	8.16
Expected Market Price	(\$/Bushel)	3.97	4.00

Crop Enterprise Analysis

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

		----- \$/Acre -----		---- \$/Bushel ----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	12.86	--	4.50	--
	2. Crop Insurance Receipts	102.15	--	35.75	--
	3. Other Receipts	1.34	--	0.47	--
	Gross Receipts	116.35	0.00	40.72	0.00
(B)	Cost Items				
	1. Seed	12.00	--	4.20	--
	2. Fertilizer	22.00	--	7.70	--
	3. Chemical	20.00	--	7.00	--
	4. Hail/Crop Insurance Premium	3.90	--	1.37	--
	5. Trucking and Marketing	4.83	--	1.69	--
	6. Fuel	7.33	--	2.56	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	4.45	--	1.56	--
	9. Repairs - Buildings	0.22	--	0.08	--
	10. Utilities and Miscellaneous	4.03	--	1.41	--
	11. Custom Work	0.00	--	0.00	--
	12. Operating Interest Paid	2.43	--	0.85	--
	13. Paid Labour	0.00	--	0.00	--
	14. Unpaid Labour	7.92	--	2.77	--
	Variable Costs	89.10	0.00	31.18	0.00
(C)	1. Cash/ Share Land Rent	30.00	--	10.50	--
	2. Taxes, Water Rates, License & Ins.	1.54	--	0.54	--
	3. Equipment and Building: a) Depreciation	20.64	--	7.22	--
	b) Lease Payments	2.18	--	0.76	--
4. Paid Capital Interest	6.16	--	2.15	--	
	Capital Costs	60.52	0.00	21.18	0.00
(D)	Cash Costs (B+C-B14-C3a)	121.07	--	42.37	--
(E)	Total Production Costs (B+C)	149.62	--	52.37	--
	Gross Margin (A-D)	(4.72)	--	(1.65)	--
	Return to Unpaid Labour (A-E+B14)	(25.36)	--	(8.88)	--
	Return to Investment (A-E+C4)	(27.12)	--	(9.49)	--
	Return to Equity (A-E)	(33.28)	--	(11.65)	--

Investment

Buildings	44.03	--
Machinery	213.11	--
Irrigation Machinery	0.00	--
Total (incl. Land)	257.14	--

Management

Average Yield	(Bushel/acre)	2.86	--
Expected Market Price	(\$/Bushel)	4.50	--

Crop Enterprise Analysis

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

		----- \$/Acre -----		---- \$/Bushel ----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	25.07	--	2.75	--	
	2. Crop Insurance Receipts	20.29	--	2.23	--	
	3. Other Receipts	5.86	--	0.64	--	
	Gross Receipts	51.23	0.00	5.62	0.00	
(B)	Cost Items					
	1. Seed	9.59	--	1.05	--	
	2. Fertilizer	11.61	--	1.27	--	
	3. Chemical	3.60	--	0.39	--	
	4. Hail/Crop Insurance Premium	3.49	--	0.38	--	
	5. Trucking and Marketing	0.08	--	0.01	--	
	6. Fuel	6.45	--	0.71	--	
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--	
	8. Repairs - Machinery	8.20	--	0.90	--	
	9. Repairs - Buildings	2.52	--	0.28	--	
	10. Utilities and Miscellaneous	10.22	--	1.12	--	
	11. Custom Work	0.00	--	0.00	--	
	12. Operating Interest Paid	0.52	--	0.06	--	
	13. Paid Labour	2.26	--	0.25	--	
	14. Unpaid Labour	11.84	--	1.30	--	
Variable Costs	70.38	0.00	7.73	0.00		
(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--	
	2. Taxes, Water Rates, License & Ins.	6.03	--	0.66	--	
	3. Equipment and Building:	a) Depreciation	23.18	--	2.54	--
		b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	13.34	--	1.46	--	
Capital Costs	42.55	0.00	4.67	0.00		
(D)	Cash Costs	77.91	--	8.55	--	
(E)	Total Production Costs	112.94	--	12.40	--	
	Gross Margin	(26.69)	--	(2.93)	--	
	Return to Unpaid Labour	(49.87)	--	(5.47)	--	
	Return to Investment	(48.37)	--	(5.31)	--	
	Return to Equity	(61.71)	--	(6.77)	--	

Investment

Buildings	81.93	--
Machinery	208.56	--
Irrigation Machinery	0.00	--
Total (incl. Land)	1052.68	--

Management

Average Yield	(Bushel/acre)	9.11	--
Expected Market Price	(\$/Bushel)	2.75	--

Crop Enterprise Analysis

Crop: Oats - Own
Soil Zone: Dark Brown - Dryland
Unit: Bushel

		----- \$/Acre -----		---- \$/Bushel ----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	25.07	--	2.75	--	
	2. Crop Insurance Receipts	20.29	--	2.23	--	
	3. Other Receipts	5.86	--	0.64	--	
	Gross Receipts	51.23	0.00	5.62	0.00	
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(B)	Cost Items					
	1. Seed	9.59	--	1.05	--	
	2. Fertilizer	11.61	--	1.27	--	
	3. Chemical	3.60	--	0.39	--	
	4. Hail/Crop Insurance Premium	3.49	--	0.38	--	
	5. Trucking and Marketing	0.08	--	0.01	--	
	6. Fuel	6.45	--	0.71	--	
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--	
	8. Repairs - Machinery	8.20	--	0.90	--	
	9. Repairs - Buildings	2.52	--	0.28	--	
	10. Utilities and Miscellaneous	10.22	--	1.12	--	
	11. Custom Work	0.00	--	0.00	--	
	12. Operating Interest Paid	0.52	--	0.06	--	
	13. Paid Labour	2.26	--	0.25	--	
	14. Unpaid Labour	11.84	--	1.30	--	
Variable Costs	70.38	0.00	7.73	0.00		
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(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--	
	2. Taxes, Water Rates, License & Ins.	6.03	--	0.66	--	
	3. Equipment and Building:	a) Depreciation	23.18	--	2.54	--
		b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	13.34	--	1.46	--	
Capital Costs	42.55	0.00	4.67	0.00		
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(D)	Cash Costs	77.91	--	8.55	--	
(E)	Total Production Costs	112.94	--	12.40	--	
	Gross Margin	(26.69)	--	(2.93)	--	
	Return to Unpaid Labour	(49.87)	--	(5.47)	--	
	Return to Investment	(48.37)	--	(5.31)	--	
	Return to Equity	(61.71)	--	(6.77)	--	

Investment

Buildings	81.93	--
Machinery	208.56	--
Irrigation Machinery	0.00	--
Total (incl. Land)	1052.68	--

Management

Average Yield	(Bushel/acre)	9.11	--
Expected Market Price	(\$/Bushel)	2.75	--

Crop Enterprise Analysis

Crop: Argentine Canola - All
Soil Zone: Dark Brown - Dryland
Unit: Bushel

		----- \$/Acre -----		---- \$/Bushel ----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	126.94	--	10.00	--
	2. Crop Insurance Receipts	96.74	--	7.62	--
	3. Other Receipts	1.38	--	0.11	--
	Gross Receipts	225.06	0.00	17.73	0.00
(B)	Cost Items				
	1. Seed	27.91	--	2.20	--
	2. Fertilizer	24.61	--	1.94	--
	3. Chemical	18.06	--	1.42	--
	4. Hail/Crop Insurance Premium	9.83	--	0.77	--
	5. Trucking and Marketing	0.83	--	0.07	--
	6. Fuel	5.02	--	0.40	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	7.58	--	0.60	--
	9. Repairs - Buildings	1.05	--	0.08	--
	10. Utilities and Miscellaneous	5.17	--	0.41	--
	11. Custom Work	2.38	--	0.19	--
	12. Operating Interest Paid	0.34	--	0.03	--
	13. Paid Labour	5.03	--	0.40	--
	14. Unpaid Labour	8.41	--	0.66	--
	Variable Costs	116.21	0.00	9.15	0.00
(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	6.65	--	0.52	--
	3. Equipment and Building: a) Depreciation	16.18	--	1.27	--
	b) Lease Payments	0.00	--	0.00	--
4. Paid Capital Interest	9.97	--	0.79	--	
	Capital Costs	32.79	0.00	2.58	0.00
(D)	Cash Costs (B+C-B14-C3a)	124.42	--	9.80	--
(E)	Total Production Costs (B+C)	149.01	--	11.74	--
	Gross Margin (A-D)	100.64	--	7.93	--
	Return to Unpaid Labour (A-E+B14)	84.46	--	6.65	--
	Return to Investment (A-E+C4)	86.02	--	6.78	--
	Return to Equity (A-E)	76.05	--	5.99	--

Investment

Buildings	38.52	--
Machinery	153.27	--
Irrigation Machinery	0.00	--
Total (incl. Land)	1134.77	--

Management

Average Yield	(Bushel/acre)	12.69	--
Expected Market Price	(\$/Bushel)	10.00	--

Crop Enterprise Analysis

Crop: Argentine Canola - Own
Soil Zone: Dark Brown - Dryland
Unit: Bushel

		----- \$/Acre -----		---- \$/Bushel ----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	126.94	--	10.00	--
	2. Crop Insurance Receipts	96.74	--	7.62	--
	3. Other Receipts	1.38	--	0.11	--
	Gross Receipts	225.06	0.00	17.73	0.00
(B)	Cost Items				
	1. Seed	27.91	--	2.20	--
	2. Fertilizer	24.61	--	1.94	--
	3. Chemical	18.06	--	1.42	--
	4. Hail/Crop Insurance Premium	9.83	--	0.77	--
	5. Trucking and Marketing	0.83	--	0.07	--
	6. Fuel	5.02	--	0.40	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	7.58	--	0.60	--
	9. Repairs - Buildings	1.05	--	0.08	--
	10. Utilities and Miscellaneous	5.17	--	0.41	--
	11. Custom Work	2.38	--	0.19	--
	12. Operating Interest Paid	0.34	--	0.03	--
	13. Paid Labour	5.03	--	0.40	--
	14. Unpaid Labour	8.41	--	0.66	--
	Variable Costs	116.21	0.00	9.15	0.00
(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	6.65	--	0.52	--
	3. Equipment and Building: a) Depreciation	16.18	--	1.27	--
	b) Lease Payments	0.00	--	0.00	--
4. Paid Capital Interest	9.97	--	0.79	--	
	Capital Costs	32.79	0.00	2.58	0.00
(D)	Cash Costs (B+C-B14-C3a)	124.42	--	9.80	--
(E)	Total Production Costs (B+C)	149.01	--	11.74	--
	Gross Margin (A-D)	100.64	--	7.93	--
	Return to Unpaid Labour (A-E+B14)	84.46	--	6.65	--
	Return to Investment (A-E+C4)	86.02	--	6.78	--
	Return to Equity (A-E)	76.05	--	5.99	--

Investment

Buildings	38.52	--
Machinery	153.27	--
Irrigation Machinery	0.00	--
Total (incl. Land)	1134.77	--

Management

Average Yield (Bushel/acre)	12.69	--
Expected Market Price (\$/Bushel)	10.00	--

Crop Enterprise Analysis

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

		----- \$/Acre -----		---- \$/Bushel ----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	37.68	--	8.81	--	
	2. Crop Insurance Receipts	219.07	--	51.19	--	
	3. Other Receipts	0.20	--	0.05	--	
	Gross Receipts	256.95	0.00	60.04	0.00	
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(B)	Cost Items					
	1. Seed	19.45	--	4.54	--	
	2. Fertilizer	24.25	--	5.67	--	
	3. Chemical	6.16	--	1.44	--	
	4. Hail/Crop Insurance Premium	10.89	--	2.55	--	
	5. Trucking and Marketing	1.32	--	0.31	--	
	6. Fuel	4.56	--	1.07	--	
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--	
	8. Repairs - Machinery	4.25	--	0.99	--	
	9. Repairs - Buildings	1.13	--	0.26	--	
	10. Utilities and Miscellaneous	10.26	--	2.40	--	
	11. Custom Work	2.24	--	0.52	--	
	12. Operating Interest Paid	2.06	--	0.48	--	
	13. Paid Labour	0.45	--	0.11	--	
	14. Unpaid Labour	9.17	--	2.14	--	
Variable Costs	96.19	0.00	22.48	0.00		
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(C)	1. Cash/ Share Land Rent	10.65	--	2.49	--	
	2. Taxes, Water Rates, License & Ins.	5.12	--	1.20	--	
	3. Equipment and Building:	a) Depreciation	23.77	--	5.56	--
		b) Lease Payments	9.72	--	2.27	--
	4. Paid Capital Interest	12.83	--	3.00	--	
Capital Costs	62.09	0.00	14.51	0.00		
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(D)	Cash Costs	125.33	--	29.29	--	
(E)	Total Production Costs	158.28	--	36.99	--	
	Gross Margin	131.62	--	30.75	--	
	Return to Unpaid Labour	107.84	--	25.20	--	
	Return to Investment	111.50	--	26.05	--	
	Return to Equity	98.67	--	23.06	--	

Investment

Buildings	134.66	--
Machinery	208.53	--
Irrigation Machinery	0.00	--
Total (incl. Land)	996.96	--

Management

Average Yield	(Bushel/acre)	4.28	--
Expected Market Price	(\$/Bushel)	8.81	--

Crop Enterprise Analysis

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

		----- \$/Acre -----		---- \$/Bushel ----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	87.63	205.74	6.82	6.91	
	2. Crop Insurance Receipts	68.51	0.00	5.34	0.00	
	3. Other Receipts	1.02	0.70	0.08	0.02	
	Gross Receipts	157.16	206.44	12.24	6.93	
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(B)	Cost Items					
	1. Seed	32.17	20.62	2.51	0.69	
	2. Fertilizer	3.58	4.52	0.28	0.15	
	3. Chemical	17.86	19.08	1.39	0.64	
	4. Hail/Crop Insurance Premium	7.89	5.89	0.61	0.20	
	5. Trucking and Marketing	1.46	1.11	0.11	0.04	
	6. Fuel	6.86	6.79	0.53	0.23	
	7. Irrigation Fuel and Electricity	0.00	0.00	0.00	0.00	
	8. Repairs - Machinery	6.33	7.19	0.49	0.24	
	9. Repairs - Buildings	1.60	1.98	0.12	0.07	
	10. Utilities and Miscellaneous	7.77	8.25	0.61	0.28	
	11. Custom Work	3.13	8.53	0.24	0.29	
	12. Operating Interest Paid	0.96	1.11	0.07	0.04	
	13. Paid Labour	2.84	6.08	0.22	0.20	
	14. Unpaid Labour	9.55	8.84	0.74	0.30	
	Variable Costs	102.01	99.99	7.94	3.36	
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(C)	1. Cash/ Share Land Rent	11.25	19.66	0.88	0.66	
	2. Taxes, Water Rates, License & Ins.	5.43	3.67	0.42	0.12	
	3. Equipment and Building:	a) Depreciation	21.52	13.02	1.68	0.44
		b) Lease Payments	1.01	1.23	0.08	0.04
	4. Paid Capital Interest	10.52	7.06	0.82	1.50	
	Capital Costs	49.73	44.65	3.87	2.76	
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(D)	Cash Costs	(B+C-B14-C3a)	120.67	122.78	9.40	5.38
(E)	Total Production Costs	(B+C)	151.73	144.64	11.82	6.12
	Gross Margin	(A-D)	36.49	83.66	2.84	1.55
	Return to Unpaid Labour	(A-E+B14)	14.97	70.64	1.17	1.11
	Return to Investment	(A-E+C4)	15.95	68.86	1.24	2.31
	Return to Equity	(A-E)	5.42	61.80	0.42	0.81

Investment

Buildings	79.12	25.80
Machinery	199.15	134.00
Irrigation Machinery	0.00	0.00
Total (incl. Land)	858.93	557.07

Management

Average Yield	(Bushel/acre)	12.84	29.79
Expected Market Price	(\$/Bushel)	6.82	6.91

Crop Enterprise Analysis

Crop: *Field Peas - Own*
Soil Zone: *Dark Brown - Dryland*
Unit: *Bushel*

		----- \$/Acre -----		---- \$/Bushel ----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	75.57	--	6.75	--
	2. Crop Insurance Receipts	72.01	--	6.44	--
	3. Other Receipts	0.89	--	0.08	--
	Gross Receipts	148.47	0.00	13.27	0.00
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(B)	Cost Items				
	1. Seed	29.02	--	2.59	--
	2. Fertilizer	5.18	--	0.46	--
	3. Chemical	16.38	--	1.46	--
	4. Hail/Crop Insurance Premium	8.20	--	0.73	--
	5. Trucking and Marketing	1.09	--	0.10	--
	6. Fuel	6.76	--	0.60	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	6.55	--	0.59	--
	9. Repairs - Buildings	1.89	--	0.17	--
	10. Utilities and Miscellaneous	8.53	--	0.76	--
	11. Custom Work	4.25	--	0.38	--
	12. Operating Interest Paid	0.93	--	0.08	--
	13. Paid Labour	2.33	--	0.21	--
	14. Unpaid Labour	9.89	--	0.88	--
Variable Costs	101.00	0.00	9.03	0.00	
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(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	6.98	--	0.62	--
	3. Equipment and Building:	22.27	--	1.99	--
		1.14	--	0.10	--
	4. Paid Capital Interest	13.91	--	1.24	--
Capital Costs	44.30	0.00	3.96	0.00	
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(D)	Cash Costs	113.13	--	10.11	--
(E)	Total Production Costs	145.30	--	12.99	--
	Gross Margin	35.33	--	3.16	--
	Return to Unpaid Labour	13.06	--	1.17	--
	Return to Investment	17.08	--	1.53	--
	Return to Equity	3.17	--	0.28	--

Investment

Buildings	91.24	--
Machinery	200.64	--
Irrigation Machinery	0.00	--
Total (incl. Land)	1131.97	--

Management

Average Yield	(Bushel/acre)	11.19	--
Expected Market Price	(\$/Bushel)	6.75	--

Crop Enterprise Analysis

Crop: *Field Peas - Rent*
Soil Zone: *Dark Brown - Dryland*
Unit: *Bushel*

		----- \$/Acre -----		---- \$/Bushel ----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	114.62	--	6.93	--	
	2. Crop Insurance Receipts	60.68	--	3.67	--	
	3. Other Receipts	1.31	--	0.08	--	
	Gross Receipts	176.61	0.00	10.68	0.00	
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(B)	Cost Items					
	1. Seed	39.22	--	2.37	--	
	2. Fertilizer	0.00	--	0.00	--	
	3. Chemical	21.19	--	1.28	--	
	4. Hail/Crop Insurance Premium	7.21	--	0.44	--	
	5. Trucking and Marketing	2.28	--	0.14	--	
	6. Fuel	7.07	--	0.43	--	
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--	
	8. Repairs - Machinery	5.85	--	0.35	--	
	9. Repairs - Buildings	0.96	--	0.06	--	
	10. Utilities and Miscellaneous	6.07	--	0.37	--	
	11. Custom Work	0.64	--	0.04	--	
	12. Operating Interest Paid	1.02	--	0.06	--	
	13. Paid Labour	3.97	--	0.24	--	
	14. Unpaid Labour	8.78	--	0.53	--	
Variable Costs	104.26	0.00	6.30	0.00		
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(C)	1. Cash/ Share Land Rent	36.42	--	2.20	--	
	2. Taxes, Water Rates, License & Ins.	1.98	--	0.12	--	
	3. Equipment and Building:	a) Depreciation	19.82	--	1.20	--
		b) Lease Payments	0.71	--	0.04	--
	4. Paid Capital Interest	2.94	--	0.18	--	
Capital Costs	61.88	0.00	3.74	0.00		
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(D)	Cash Costs	(B+C-B14-C3a)	137.53	--	8.32	
(E)	Total Production Costs	(B+C)	166.14	--	10.05	
	Gross Margin	(A-D)	39.08	--	2.36	
	Return to Unpaid Labour	(A-E+B14)	19.26	--	1.16	
	Return to Investment	(A-E+C4)	13.42	--	0.81	
	Return to Equity	(A-E)	10.48	--	0.63	

Investment

Buildings	51.98	--
Machinery	195.80	--
Irrigation Machinery	0.00	--
Total (incl. Land)	247.78	--

Management

Average Yield	(Bushel/acre)	16.54	--
Expected Market Price	(\$/Bushel)	6.93	--

Crop Enterprise Analysis

Crop: Chick Peas - All
Soil Zone: Dark Brown - Dryland
Unit: Pound

		-----\$/Acre-----		-----\$/Pound-----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	115.20	--	0.27	--
	2. Crop Insurance Receipts	112.39	--	0.26	--
	3. Other Receipts	3.28	--	0.01	--
	Gross Receipts	230.87	0.00	0.53	0.00
(B)	Cost Items				
	1. Seed	58.00	--	0.13	--
	2. Fertilizer	0.00	--	0.00	--
	3. Chemical	30.78	--	0.07	--
	4. Hail/Crop Insurance Premium	11.48	--	0.03	--
	5. Trucking and Marketing	0.33	--	0.00	--
	6. Fuel	2.51	--	0.01	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	6.88	--	0.02	--
	9. Repairs - Buildings	0.06	--	0.00	--
	10. Utilities and Miscellaneous	9.26	--	0.02	--
	11. Custom Work	23.53	--	0.05	--
	12. Operating Interest Paid	0.89	--	0.00	--
	13. Paid Labour	3.17	--	0.01	--
	14. Unpaid Labour	0.00	--	0.00	--
	Variable Costs	146.87	0.00	0.34	0.00
(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	3.47	--	0.01	--
	3. Equipment and Building: a) Depreciation	4.81	--	0.01	--
	b) Lease Payments	0.00	--	0.00	--
4. Paid Capital Interest	8.94	--	0.02	--	
	Capital Costs	17.22	0.00	0.04	0.00
(D)	Cash Costs (B+C-B14-C3a)	159.29	--	0.37	--
(E)	Total Production Costs (B+C)	164.09	--	0.38	--
	Gross Margin (A-D)	71.59	--	0.17	--
	Return to Unpaid Labour (A-E+B14)	66.78	--	0.15	--
	Return to Investment (A-E+C4)	75.72	--	0.18	--
	Return to Equity (A-E)	66.78	--	0.15	--

Investment

Buildings	10.67	--
Machinery	47.45	--
Irrigation Machinery	0.00	--
Total (incl. Land)	343.55	--

Management

Average Yield (Pound/acre)	432.00	--
Expected Market Price (\$/Pound)	0.27	--

Crop Enterprise Analysis

Crop: Yellow Mustard - All
Soil Zone: Dark Brown - Dryland
Unit: Pound

		-----\$/Acre-----		-----\$/Pound-----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	78.20	--	0.40	--
	2. Crop Insurance Receipts	59.43	--	0.30	--
	3. Other Receipts	0.62	--	0.00	--
	Gross Receipts	138.25	0.00	0.71	0.00
(B) Cost Items					
	1. Seed	12.50	--	0.06	--
	2. Fertilizer	0.00	--	0.00	--
	3. Chemical	11.00	--	0.06	--
	4. Hail/Crop Insurance Premium	6.27	--	0.03	--
	5. Trucking and Marketing	0.33	--	0.00	--
	6. Fuel	2.18	--	0.01	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	6.88	--	0.04	--
	9. Repairs - Buildings	0.06	--	0.00	--
	10. Utilities and Miscellaneous	9.20	--	0.05	--
	11. Custom Work	0.00	--	0.00	--
	12. Operating Interest Paid	0.89	--	0.00	--
	13. Paid Labour	3.17	--	0.02	--
	14. Unpaid Labour	0.00	--	0.00	--
	Variable Costs	52.48	0.00	0.27	0.00
(C)	1. Cash/ Share Land Rent	7.26	--	0.04	--
	2. Taxes, Water Rates, License & Ins.	3.17	--	0.02	--
	3. Equipment and Building: a) Depreciation	4.81	--	0.02	--
	b) Lease Payments	0.00	--	0.00	--
4. Paid Capital Interest	7.60	--	0.04	--	
	Capital Costs	22.83	0.00	0.12	0.00
(D)	Cash Costs (B+C-B14-C3a)	70.50	--	0.36	--
(E)	Total Production Costs (B+C)	75.31	--	0.39	--
	Gross Margin (A-D)	67.75	--	0.35	--
	Return to Unpaid Labour (A-E+B14)	62.94	--	0.32	--
	Return to Investment (A-E+C4)	70.54	--	0.36	--
	Return to Equity (A-E)	62.94	--	0.32	--

Investment

Buildings	10.67	--
Machinery	47.45	--
Irrigation Machinery	0.00	--
Total (incl. Land)	297.75	--

Management

Average Yield (Pound/acre)	195.50	--
Expected Market Price (\$/Pound)	0.40	--

Crop Enterprise Analysis

Crop: *Oriental Mustard - All*
Soil Zone: *Dark Brown - Dryland*
Unit: *Pound*

		-----\$/Acre-----		-----\$/Pound-----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	25.52	--	0.21	--	
	2. Crop Insurance Receipts	132.33	--	1.09	--	
	3. Other Receipts	0.51	--	0.00	--	
	Gross Receipts	158.36	0.00	1.30	0.00	
<hr/>						
(B)	Cost Items					
	1. Seed	12.81	--	0.11	--	
	2. Fertilizer	7.40	--	0.06	--	
	3. Chemical	11.69	--	0.10	--	
	4. Hail/Crop Insurance Premium	14.51	--	0.12	--	
	5. Trucking and Marketing	0.42	--	0.00	--	
	6. Fuel	3.59	--	0.03	--	
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--	
	8. Repairs - Machinery	5.46	--	0.04	--	
	9. Repairs - Buildings	1.28	--	0.01	--	
	10. Utilities and Miscellaneous	10.27	--	0.08	--	
	11. Custom Work	0.00	--	0.00	--	
	12. Operating Interest Paid	0.39	--	0.00	--	
	13. Paid Labour	1.92	--	0.02	--	
	14. Unpaid Labour	2.57	--	0.02	--	
Variable Costs	72.32	0.00	0.60	0.00		
<hr/>						
(C)	1. Cash/ Share Land Rent	4.22	--	0.03	--	
	2. Taxes, Water Rates, License & Ins.	4.53	--	0.04	--	
	3. Equipment and Building:	a) Depreciation	19.95	--	0.16	--
		b) Lease Payments	0.51	--	0.00	--
	4. Paid Capital Interest	9.02	--	0.07	--	
Capital Costs	38.23	0.00	0.31	0.00		
<hr/>						
(D)	Cash Costs	88.03	--	0.72	--	
(E)	Total Production Costs	110.55	--	0.91	--	
	Gross Margin	70.33	--	0.58	--	
	Return to Unpaid Labour	50.38	--	0.41	--	
	Return to Investment	56.83	--	0.47	--	
	Return to Equity	47.81	--	0.39	--	

Investment

Buildings	105.17	--
Machinery	169.57	--
Irrigation Machinery	0.00	--
Total (incl. Land)	928.19	--

Management

Average Yield	(Pound/acre)	121.53	--
Expected Market Price	(\$/Pound)	0.21	--

Crop Enterprise Analysis

Crop: *Alfalfa/Grass Hay - All*
Soil Zone: *Dark Brown - Dryland*
Unit: *Tonne*

		-----\$/Acre-----		----\$/Tonne----	
		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales	99.12	128.16	135.80	132.28
	2. Crop Insurance Receipts	2.80	0.00	3.83	0.00
	3. Other Receipts	0.46	0.00	0.62	0.00
	Gross Receipts	102.38	128.16	140.26	132.28
(B) Cost Items					
	1. Seed	0.00	0.00	0.00	0.00
	2. Fertilizer	0.00	0.00	0.00	0.00
	3. Chemical	0.00	0.00	0.00	0.00
	4. Hail/Crop Insurance Premium	6.29	7.14	8.62	7.37
	5. Trucking and Marketing	0.52	0.00	0.72	0.00
	6. Fuel	6.63	10.06	9.08	10.39
	7. Irrigation Fuel and Electricity	0.00	0.00	0.00	0.00
	8. Repairs - Machinery	5.47	5.85	7.50	6.04
	9. Repairs - Buildings	0.20	0.00	0.27	0.00
	10. Utilities and Miscellaneous	4.28	4.17	5.86	4.30
	11. Custom Work	0.00	0.00	0.00	0.00
	12. Operating Interest Paid	0.09	0.00	0.13	0.00
	13. Paid Labour	0.61	0.00	0.84	0.00
	14. Unpaid Labour	4.21	6.27	5.77	6.47
	Variable Costs	28.31	33.50	38.79	34.57
(C)	1. Cash/ Share Land Rent	0.00	0.00	0.00	0.00
	2. Taxes, Water Rates, License & Ins.	6.39	8.56	8.75	8.83
	3. Equipment and Building: a) Depreciation	17.51	24.10	24.00	24.88
	b) Lease Payments	0.00	0.00	0.00	0.00
4. Paid Capital Interest	2.45	0.00	3.36	33.71	
	Capital Costs	26.36	32.66	36.11	67.42
(D)	Cash Costs (B+C-B14-C3a)	32.94	35.78	45.13	70.64
(E)	Total Production Costs (B+C)	54.67	66.16	74.90	102.00
	Gross Margin (A-D)	69.44	92.38	95.13	61.63
	Return to Unpaid Labour (A-E+B14)	51.92	68.27	71.13	36.75
	Return to Investment (A-E+C4)	50.16	62.00	68.72	63.99
	Return to Equity (A-E)	47.71	62.00	65.36	30.28

Investment

Buildings	41.53	60.61
Machinery	154.39	211.19
Irrigation Machinery	0.00	0.00
Total (incl. Land)	640.51	771.79

Management

Average Yield (Tonne/acre)	0.73	0.97
Expected Market Price (\$/Tonne)	135.80	132.28

Crop Enterprise Analysis

Crop: *Alfalfa/Grass Hay - Own*
Soil Zone: *Dark Brown - Dryland*
Unit: *Tonne*

		-----\$/Acre-----		-----\$/Tonne----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	99.12	128.16	135.80	132.28	
	2. Crop Insurance Receipts	2.80	0.00	3.83	0.00	
	3. Other Receipts	0.46	0.00	0.62	0.00	
	Gross Receipts	102.38	128.16	140.26	132.28	
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(B)	Cost Items					
	1. Seed	0.00	0.00	0.00	0.00	
	2. Fertilizer	0.00	0.00	0.00	0.00	
	3. Chemical	0.00	0.00	0.00	0.00	
	4. Hail/Crop Insurance Premium	6.29	7.14	8.62	7.37	
	5. Trucking and Marketing	0.52	0.00	0.72	0.00	
	6. Fuel	6.63	10.06	9.08	10.39	
	7. Irrigation Fuel and Electricity	0.00	0.00	0.00	0.00	
	8. Repairs - Machinery	5.47	5.85	7.50	6.04	
	9. Repairs - Buildings	0.20	0.00	0.27	0.00	
	10. Utilities and Miscellaneous	4.28	4.17	5.86	4.30	
	11. Custom Work	0.00	0.00	0.00	0.00	
	12. Operating Interest Paid	0.09	0.00	0.13	0.00	
	13. Paid Labour	0.61	0.00	0.84	0.00	
	14. Unpaid Labour	4.21	6.27	5.77	6.47	
	Variable Costs	28.31	33.50	38.79	34.57	
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(C)	1. Cash/ Share Land Rent	0.00	0.00	0.00	0.00	
	2. Taxes, Water Rates, License & Ins.	6.39	8.56	8.75	8.83	
	3. Equipment and Building:	a) Depreciation	17.51	24.10	24.00	24.88
		b) Lease Payments	0.00	0.00	0.00	0.00
	4. Paid Capital Interest	2.45	0.00	3.36	33.71	
	Capital Costs	26.36	32.66	36.11	67.42	
<hr/>						
(D)	Cash Costs	(B+C-B14-C3a)	32.94	35.78	45.13	70.64
(E)	Total Production Costs	(B+C)	54.67	66.16	74.90	102.00
	Gross Margin	(A-D)	69.44	92.38	95.13	61.63
	Return to Unpaid Labour	(A-E+B14)	51.92	68.27	71.13	36.75
	Return to Investment	(A-E+C4)	50.16	62.00	68.72	63.99
	Return to Equity	(A-E)	47.71	62.00	65.36	30.28

Investment

Buildings	41.53	60.61
Machinery	154.39	211.19
Irrigation Machinery	0.00	0.00
Total (incl. Land)	640.51	771.79

Management

Average Yield	(Tonne/acre)	0.73	0.97
Expected Market Price	(\$/Tonne)	135.80	132.28

Crop Enterprise Analysis

Crop: *Greenfeed - All*
Soil Zone: *Dark Brown - Dryland*
Unit: *Tonne*

		-----\$/Acre-----		-----\$/Tonne-----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	46.41	71.88	28.50	115.01	
	2. Crop Insurance Receipts	84.64	99.81	51.98	159.69	
	3. Other Receipts	4.44	4.01	2.73	6.41	
	Gross Receipts	135.49	175.70	83.21	281.11	
<hr/>						
(B)	Cost Items					
	1. Seed	10.10	8.46	6.20	13.53	
	2. Fertilizer	13.97	16.61	8.58	26.58	
	3. Chemical	5.66	6.99	3.47	11.18	
	4. Hail/Crop Insurance Premium	6.59	8.37	4.05	13.39	
	5. Trucking and Marketing	0.70	0.65	0.43	1.05	
	6. Fuel	5.41	5.83	3.32	9.33	
	7. Irrigation Fuel and Electricity	0.00	0.00	0.00	0.00	
	8. Repairs - Machinery	4.75	4.50	2.92	7.19	
	9. Repairs - Buildings	2.79	3.08	1.71	4.93	
	10. Utilities and Miscellaneous	5.76	6.87	3.54	11.00	
	11. Custom Work	4.31	3.98	2.65	6.37	
	12. Operating Interest Paid	0.31	0.30	0.19	0.48	
	13. Paid Labour	0.99	0.99	0.61	1.58	
	14. Unpaid Labour	7.65	8.70	4.70	13.92	
Variable Costs	69.00	75.33	42.38	120.53		
<hr/>						
(C)	1. Cash/ Share Land Rent	11.66	11.64	7.16	18.62	
	2. Taxes, Water Rates, License & Ins.	2.85	2.92	1.75	4.67	
	3. Equipment and Building:	a) Depreciation	8.67	9.33	5.33	14.92
		b) Lease Payments	0.00	0.00	0.00	0.00
	4. Paid Capital Interest	2.44	2.86	1.50	42.79	
Capital Costs	25.63	26.74	15.74	81.00		
<hr/>						
(D)	Cash Costs	78.31	84.05	48.09	172.69	
(E)	Total Production Costs	94.63	102.08	58.12	201.53	
	Gross Margin	57.18	91.65	35.12	108.42	
	Return to Unpaid Labour	48.51	82.32	29.79	93.50	
	Return to Investment	43.30	76.49	26.59	122.37	
	Return to Equity	40.86	73.63	25.09	79.58	

Investment

Buildings	24.94	31.94
Machinery	76.13	80.43
Irrigation Machinery	0.00	0.00
Total (incl. Land)	396.05	381.54

Management

Average Yield	(Tonne/acre)	1.63	0.63
Expected Market Price	(\$/Tonne)	28.50	115.01

Crop Enterprise Analysis

Crop: Greenfeed - Own
Soil Zone: Dark Brown - Dryland
Unit: Tonne

		-----\$/Acre-----		-----\$/Tonne-----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	57.53	--	23.24	--	
	2. Crop Insurance Receipts	56.82	--	22.96	--	
	3. Other Receipts	7.12	--	2.88	--	
	Gross Receipts	121.47	0.00	49.08	0.00	
<hr/>						
(B)	Cost Items					
	1. Seed	11.27	--	4.55	--	
	2. Fertilizer	6.97	--	2.81	--	
	3. Chemical	6.21	--	2.51	--	
	4. Hail/Crop Insurance Premium	4.41	--	1.78	--	
	5. Trucking and Marketing	0.63	--	0.25	--	
	6. Fuel	5.23	--	2.11	--	
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--	
	8. Repairs - Machinery	5.09	--	2.06	--	
	9. Repairs - Buildings	3.51	--	1.42	--	
	10. Utilities and Miscellaneous	4.46	--	1.80	--	
	11. Custom Work	4.11	--	1.66	--	
	12. Operating Interest Paid	0.45	--	0.18	--	
	13. Paid Labour	0.91	--	0.37	--	
	14. Unpaid Labour	6.49	--	2.62	--	
Variable Costs	59.75	0.00	24.14	0.00		
<hr/>						
(C)	1. Cash/ Share Land Rent	0.00	--	0.00	--	
	2. Taxes, Water Rates, License & Ins.	3.03	--	1.23	--	
	3. Equipment and Building:	a) Depreciation	8.04	--	3.25	--
		b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	3.88	--	1.57	--	
Capital Costs	14.96	0.00	6.04	0.00		
<hr/>						
(D)	Cash Costs	60.16	--	24.31	--	
(E)	Total Production Costs	74.70	--	30.18	--	
	Gross Margin	61.31	--	24.77	--	
	Return to Unpaid Labour	53.26	--	21.52	--	
	Return to Investment	50.65	--	20.46	--	
	Return to Equity	46.77	--	18.90	--	

Investment

Buildings	16.33	--
Machinery	72.57	--
Irrigation Machinery	0.00	--
Total (incl. Land)	568.71	--

Management

Average Yield	(Tonne/acre)	2.47	--
Expected Market Price	(\$/Tonne)	23.24	--

Crop Enterprise Analysis

Crop: **Greenfeed - Rent**
 Soil Zone: **Dark Brown - Dryland**
 Unit: **Tonne**

		-----\$/Acre-----		-----\$/Tonne-----		
		Average	Top 1/3	Average	Top 1/3	
(A)	1. Crop Sales	28.67	--	103.47	--	
	2. Crop Insurance Receipts	129.04	--	465.67	--	
	3. Other Receipts	0.15	--	0.56	--	
	Gross Receipts	157.87	0.00	569.69	0.00	
<hr/>						
(B)	Cost Items					
	1. Seed	8.23	--	29.70	--	
	2. Fertilizer	25.16	--	90.79	--	
	3. Chemical	4.77	--	17.23	--	
	4. Hail/Crop Insurance Premium	10.07	--	36.33	--	
	5. Trucking and Marketing	0.81	--	2.91	--	
	6. Fuel	5.70	--	20.59	--	
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--	
	8. Repairs - Machinery	4.21	--	15.20	--	
	9. Repairs - Buildings	1.62	--	5.86	--	
	10. Utilities and Miscellaneous	7.84	--	28.29	--	
	11. Custom Work	4.64	--	16.74	--	
	12. Operating Interest Paid	0.11	--	0.38	--	
	13. Paid Labour	1.13	--	4.06	--	
	14. Unpaid Labour	9.50	--	34.27	--	
Variable Costs	83.78	0.00	302.34	0.00		
<hr/>						
(C)	1. Cash/ Share Land Rent	30.27	--	109.23	--	
	2. Taxes, Water Rates, License & Ins.	2.56	--	9.26	--	
	3. Equipment and Building:	a) Depreciation	9.68	--	34.93	--
		b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	0.15	--	0.55	--	
Capital Costs	42.67	0.00	153.97	0.00		
<hr/>						
(D)	Cash Costs	107.27	--	387.11	--	
(E)	Total Production Costs	126.45	--	456.31	--	
	Gross Margin	50.60	--	182.58	--	
	Return to Unpaid Labour	40.92	--	147.65	--	
	Return to Investment	31.57	--	113.93	--	
	Return to Equity	31.42	--	113.38	--	

Investment

Buildings	38.67	--
Machinery	81.81	--
Irrigation Machinery	0.00	--
Total (incl. Land)	120.48	--

Management

Average Yield	(Tonne/acre)	0.28	--
Expected Market Price	(\$/Tonne)	103.47	--

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 Brown/Dark Brown soil zone. From these charts a lot can be interpreted about yield performance:

- The low is 0 bushels per acre and the high is greater than 50 bushels per acre, and
- 30% of the spring wheat fields in the brown/dark brown soil zone yield more than 35 bushels per acre

This detailed information provides a better understanding of yield variability. The average yield is 23.29 bushels per acre as listed on page 12 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 \$5 per bushel, then 80% of the fields are covering their cash costs and 72% 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

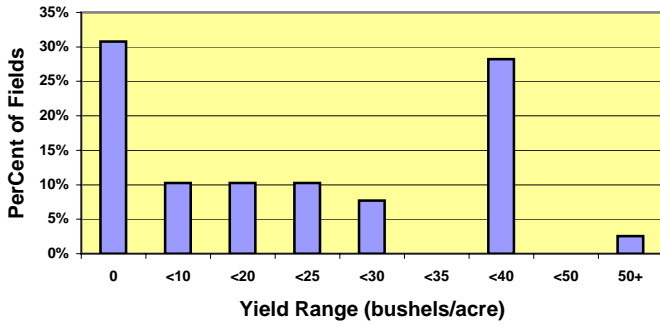
total cash costs, which include fixed costs (land rent, taxes, water rights, licenses and capital interest). It is valuable in predicting each crop's ability to generate cash flow for the year. From a cash flow point of view, the gross margin provides an indication of the crop's ability to contribute 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 50% of the fields had a loss and 50% 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.

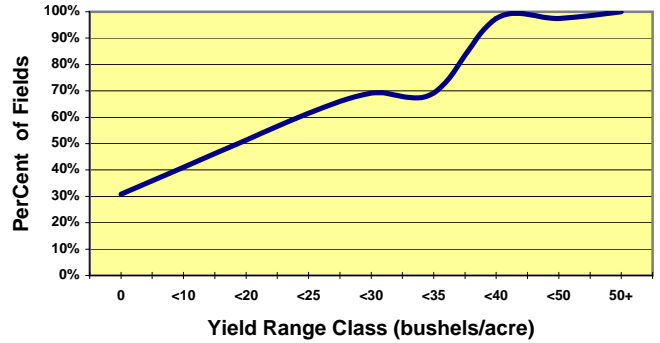
Understanding these concepts in *AgriProfit\$* and evaluating historical performance on a per bushel basis can be very useful for other AAFRD applications. For example, [CropChoice\\$](#) is a tool that combines traditional crop planning with the ability to measure the riskiness of your plan. Producers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

Brown Soil Zone - Spring Wheat: 2002

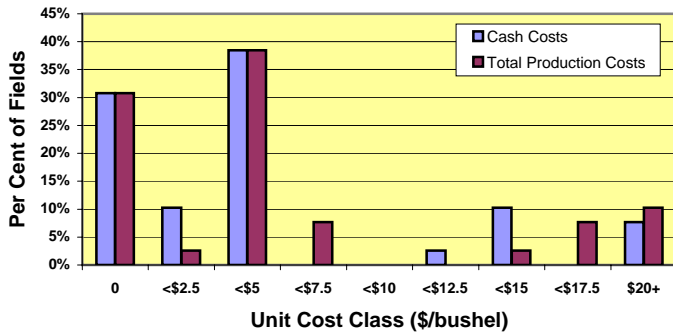
Frequency Distribution: Brown Soil Zone - Spring Wheat Yields



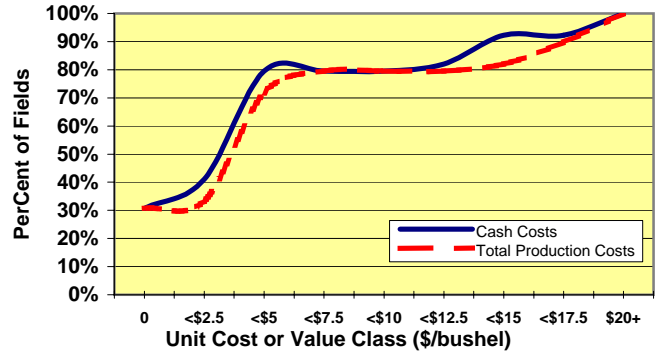
Cumulative Frequency Distribution of Brown Soil Zone - Spring Wheat Yields



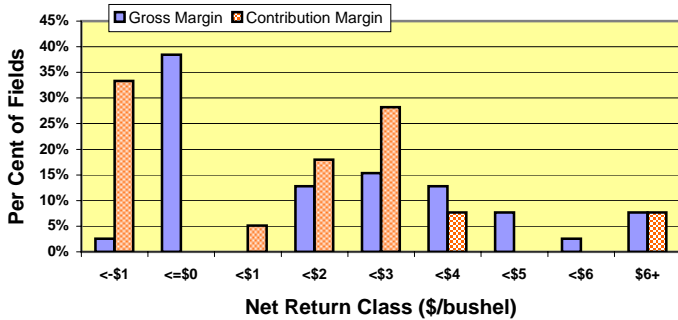
Frequency Distribution: Brown Soil Zone - Spring Wheat Costs



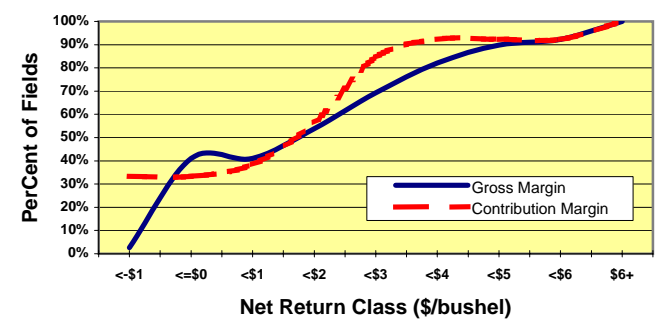
Cumulative Frequency Distribution of Brown Soil Zone - Spring Wheat Costs



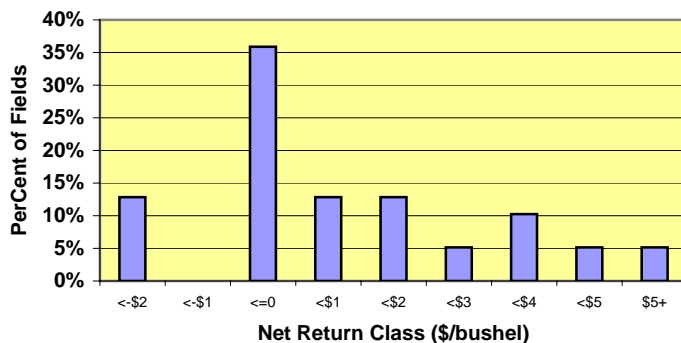
Frequency Distribution: Brown Soil Zone - Spring Wheat Margins



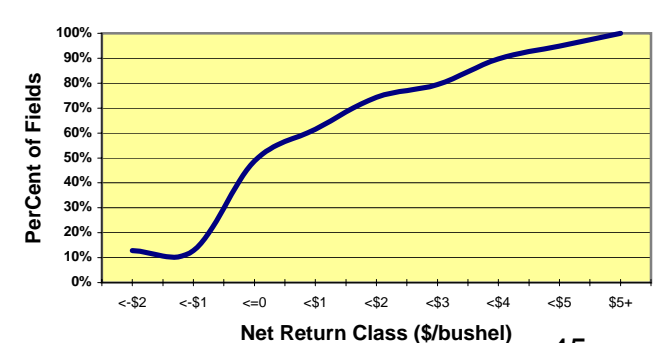
Cumulative Frequency Distribution of Brown Soil Zone - Spring Wheat Margins



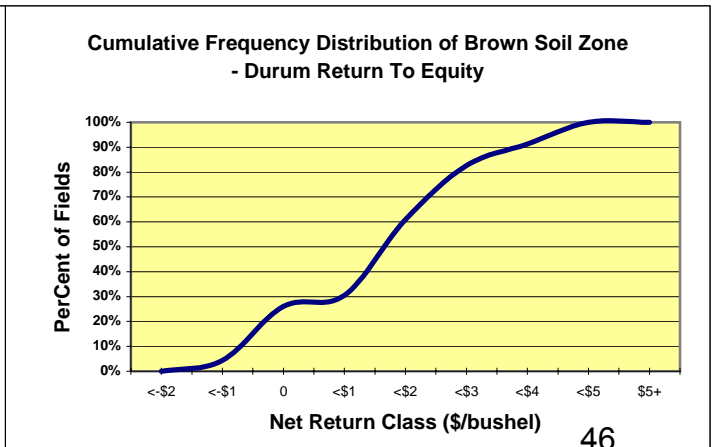
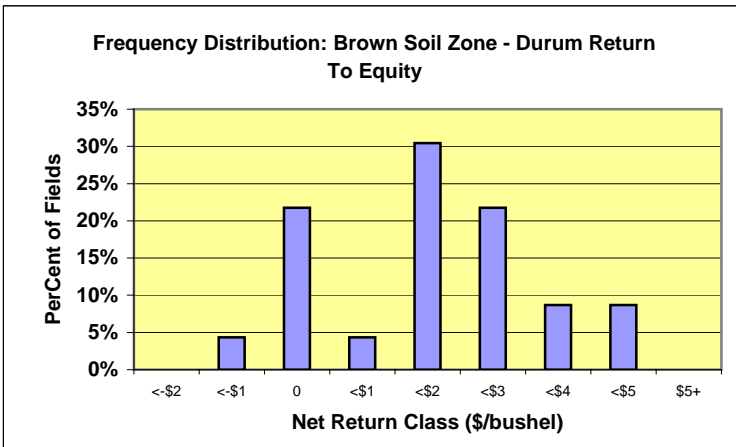
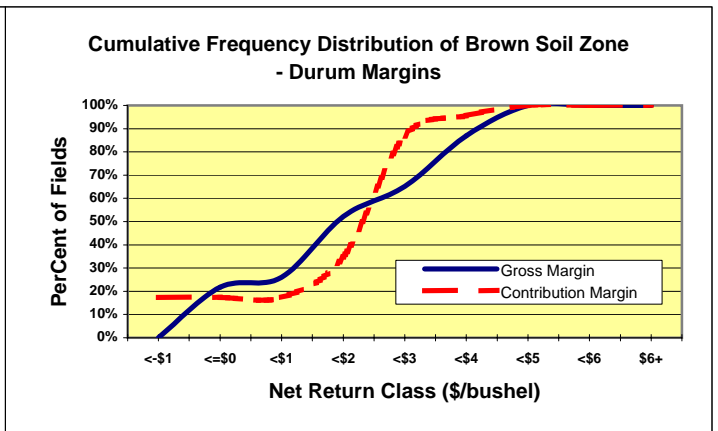
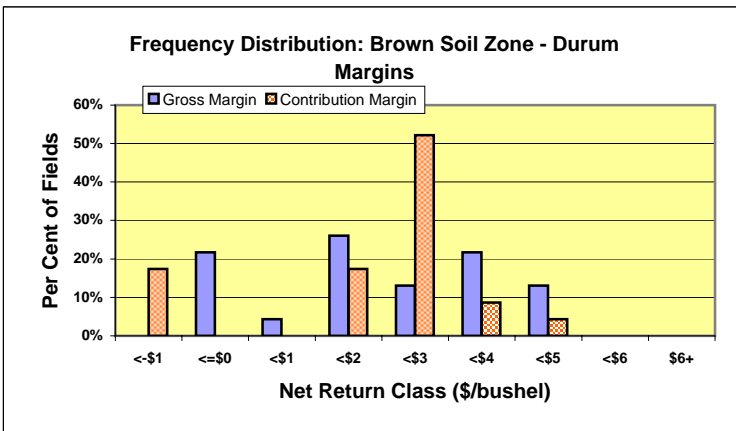
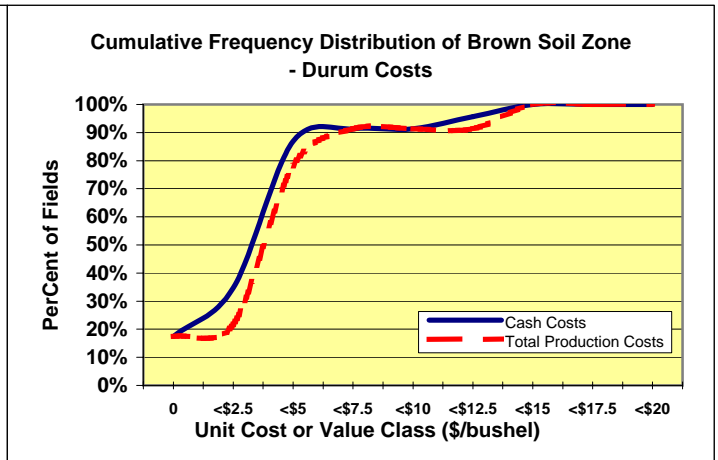
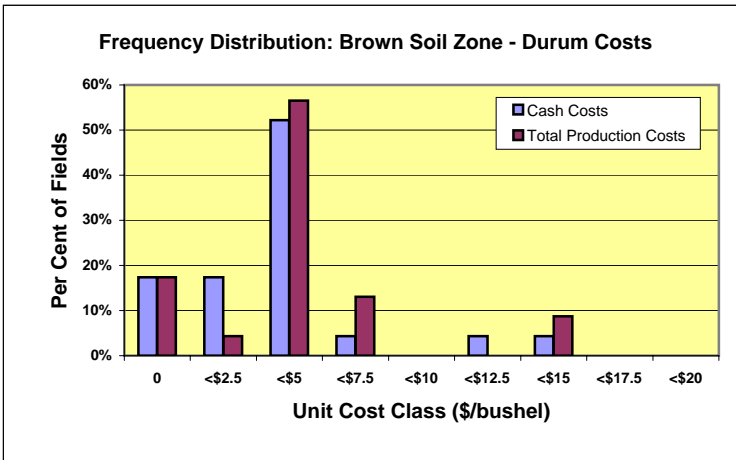
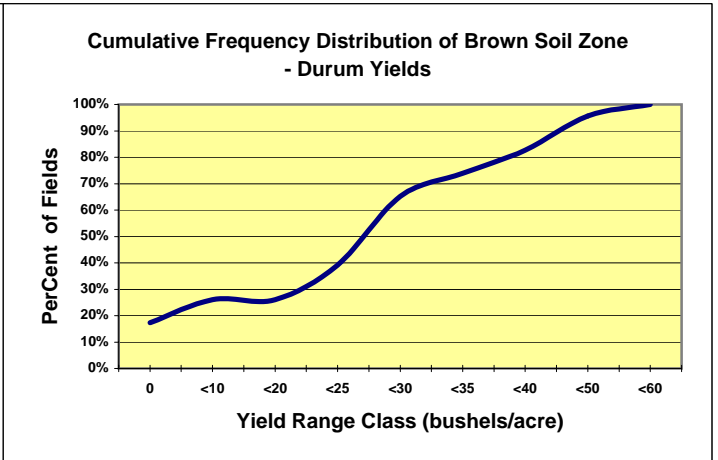
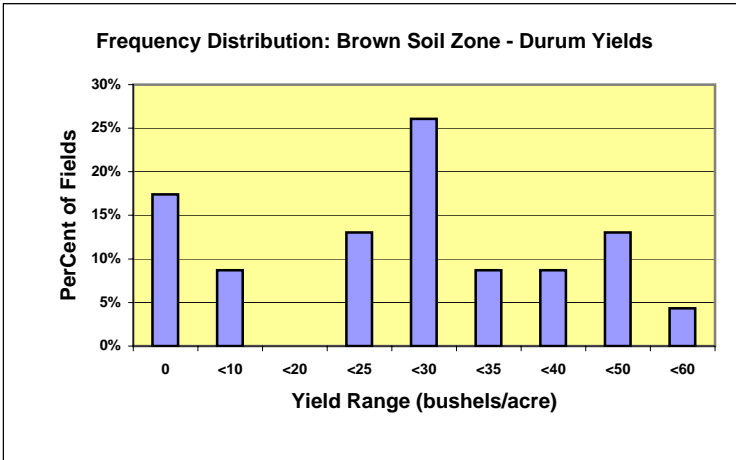
Frequency Distribution: Brown Soil Zone - Spring Wheat Return To Equity



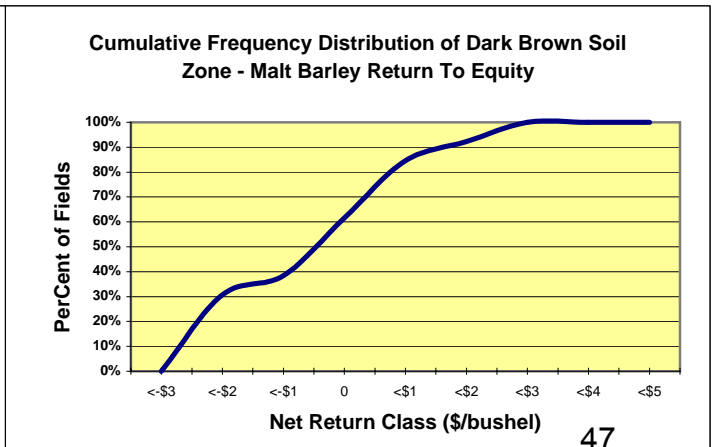
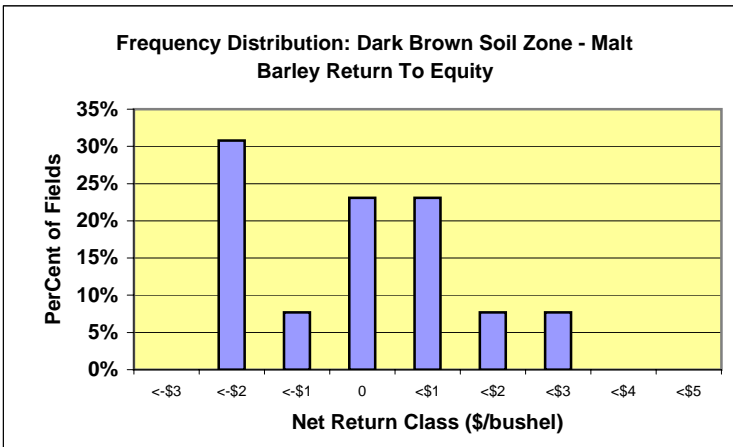
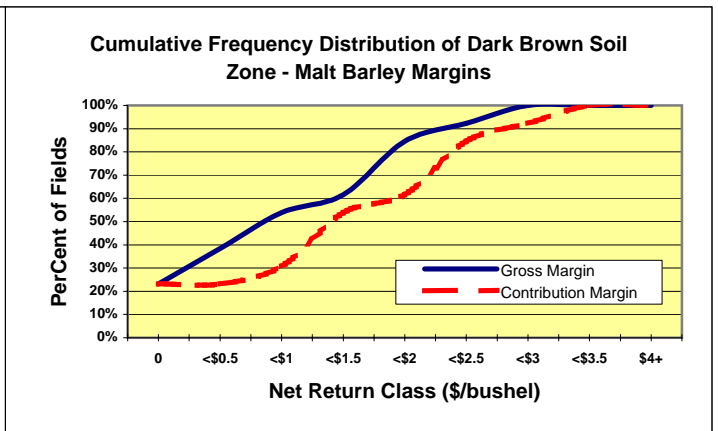
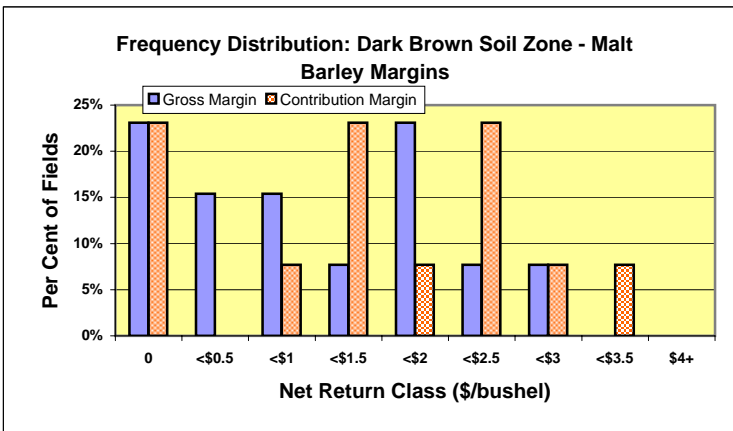
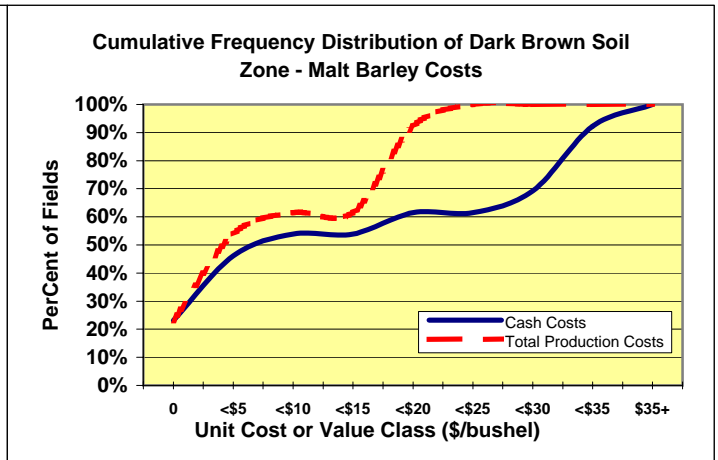
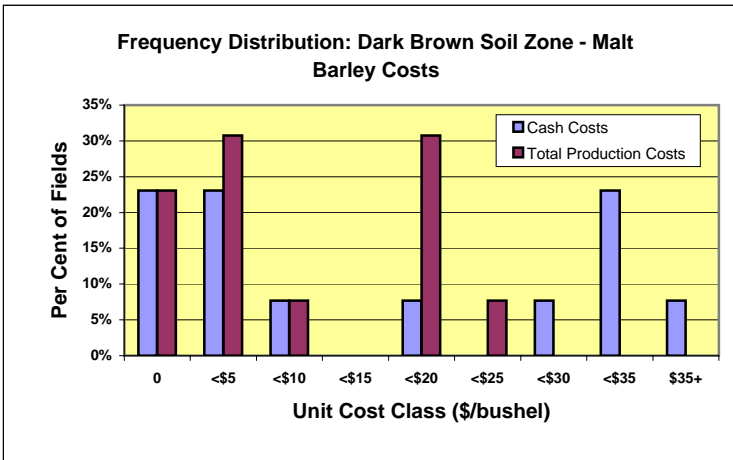
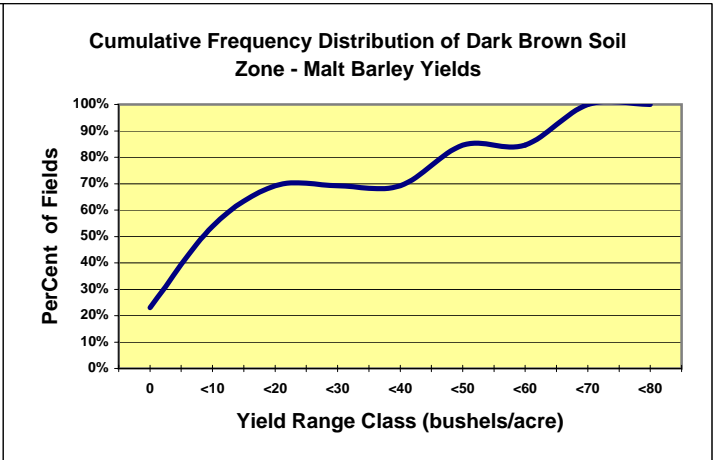
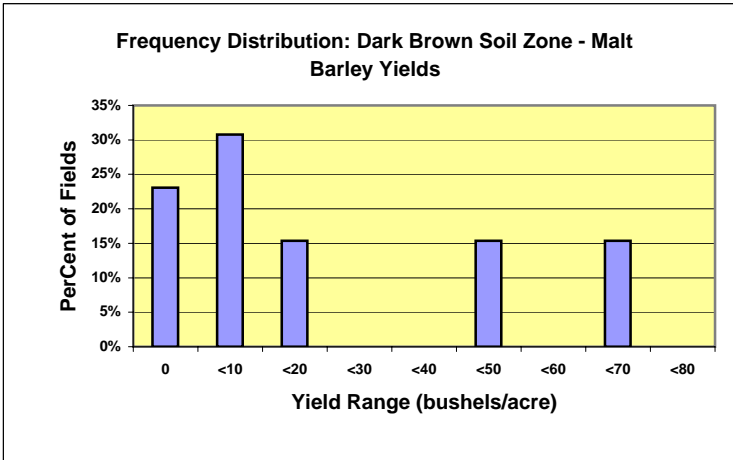
Cumulative Frequency Distribution of Brown Soil Zone - Spring Wheat Return To Equity



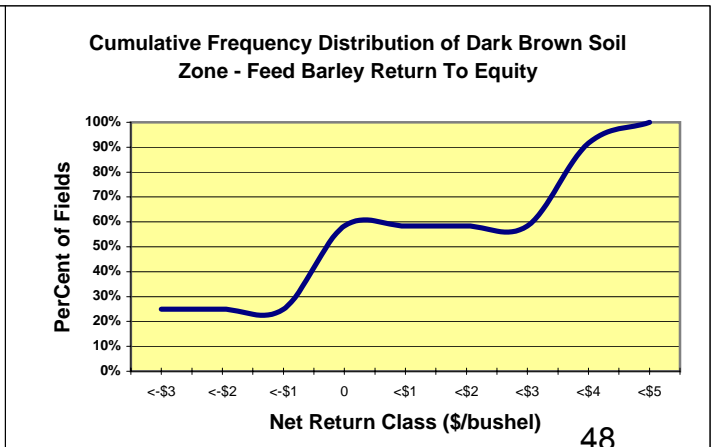
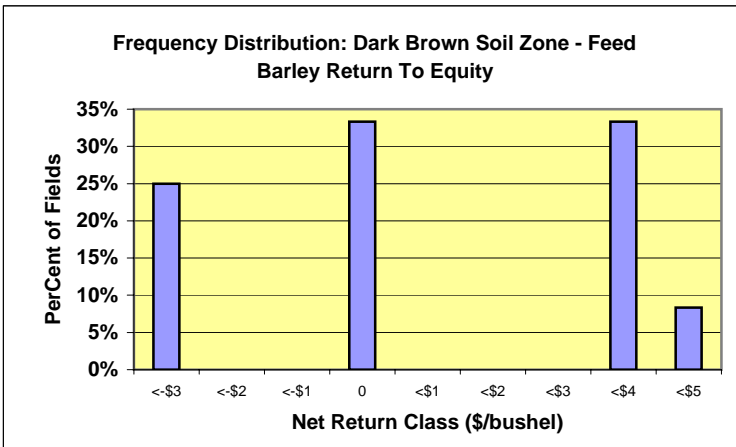
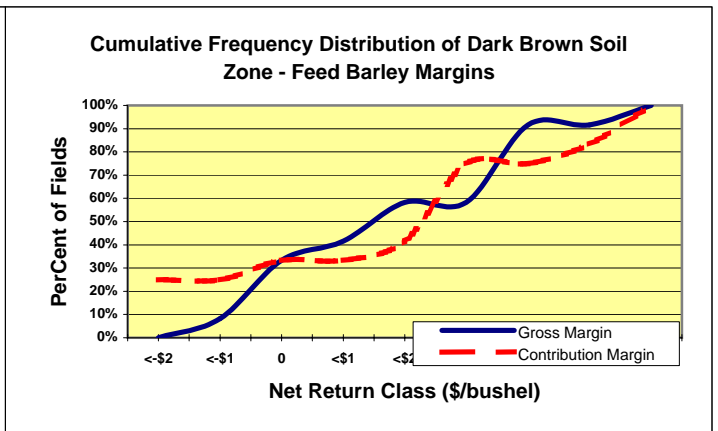
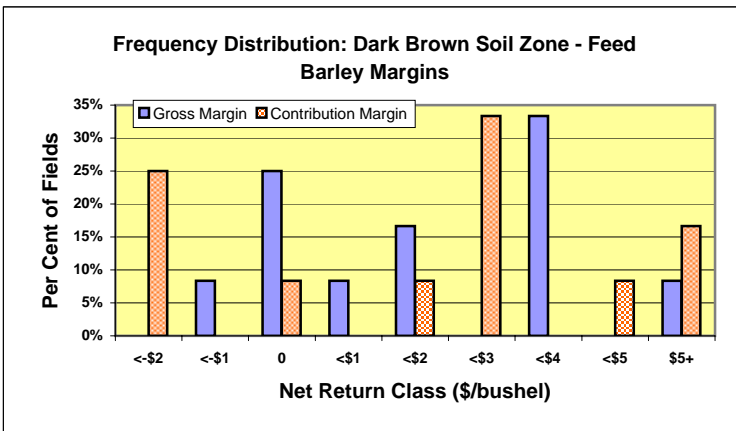
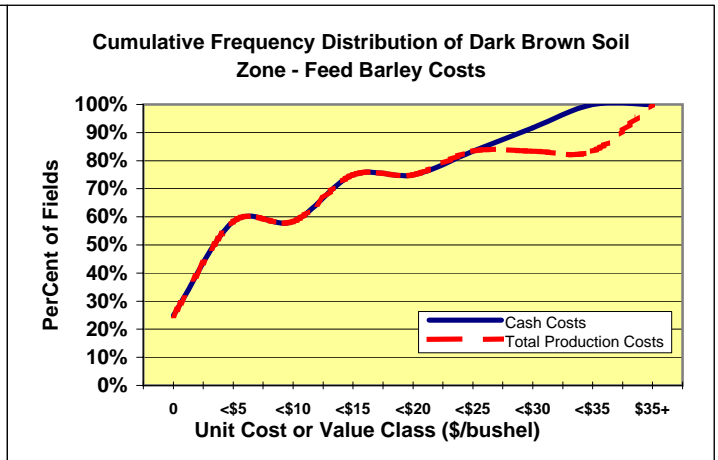
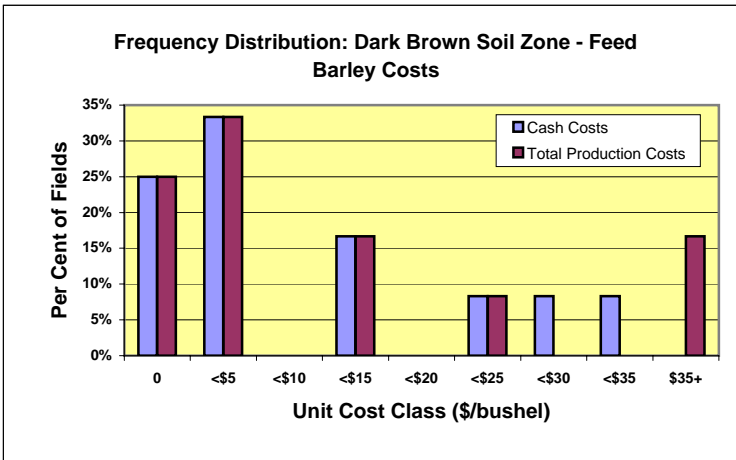
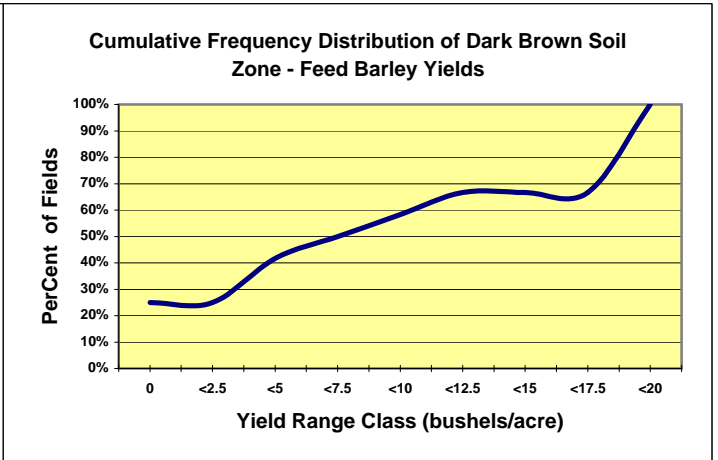
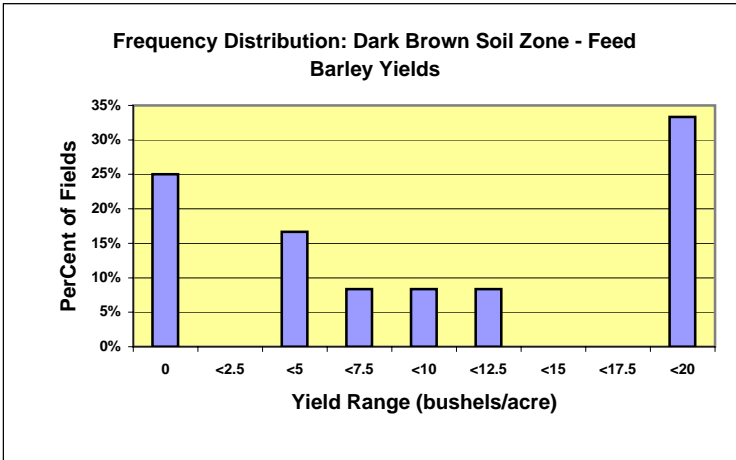
Brown Soil Zone - Durum: 2002



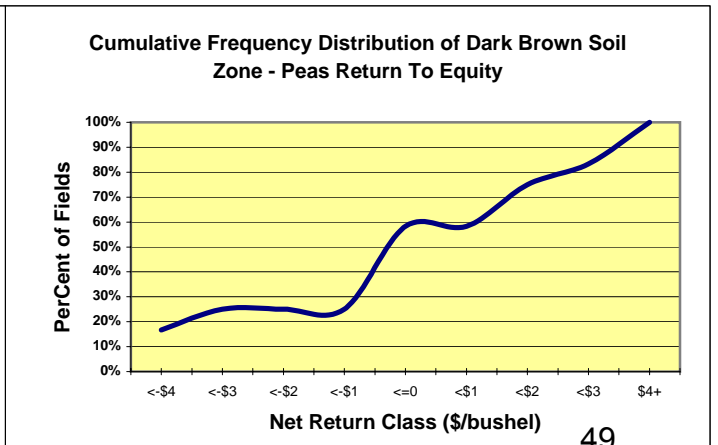
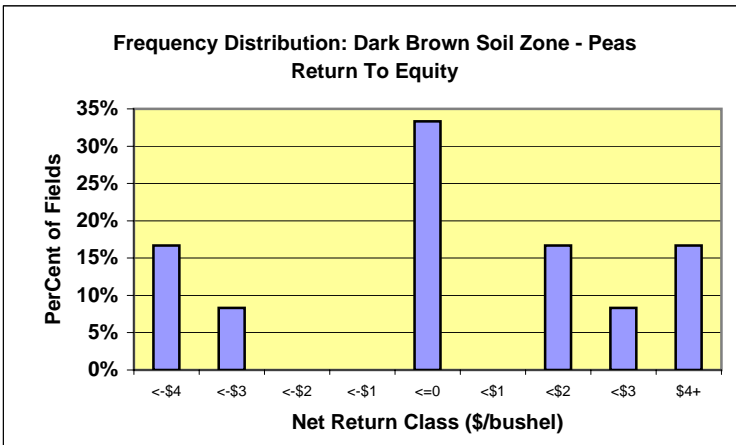
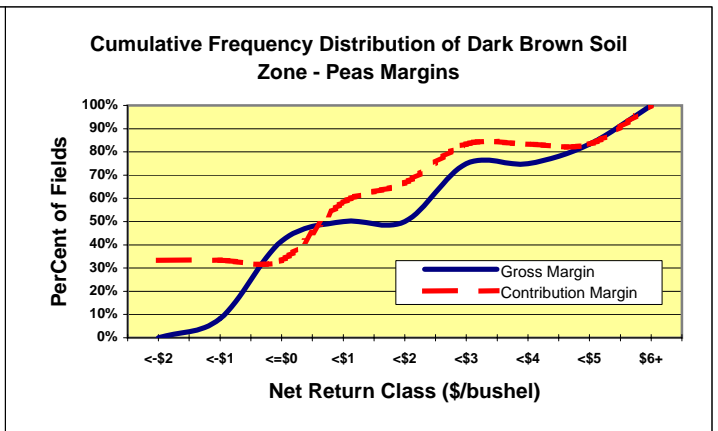
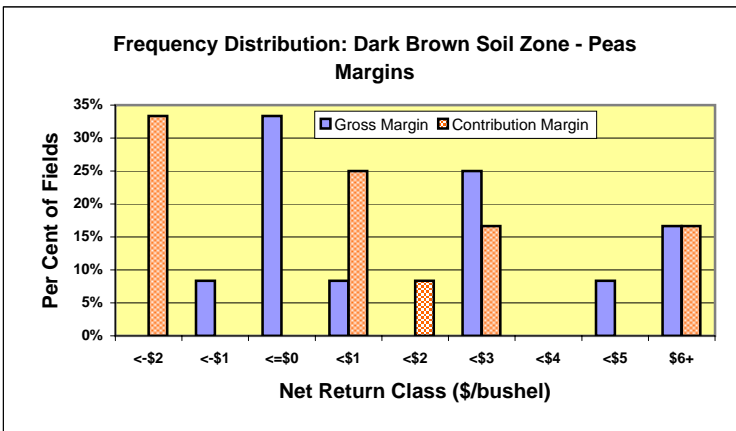
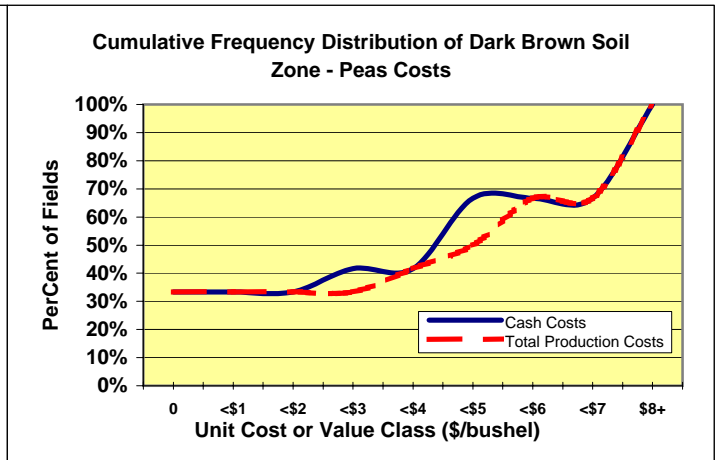
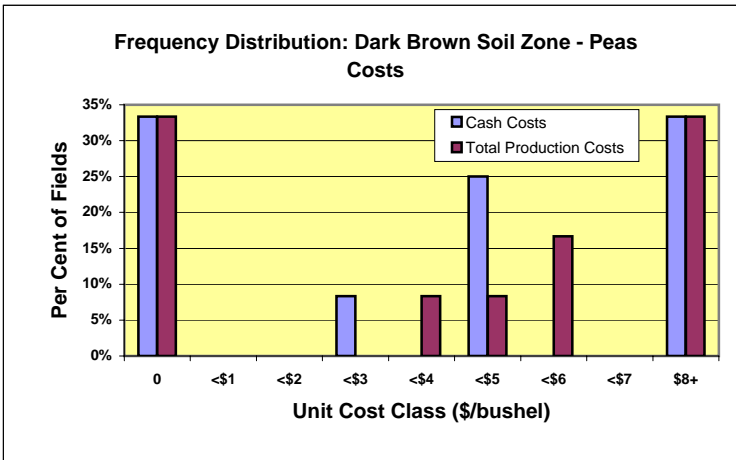
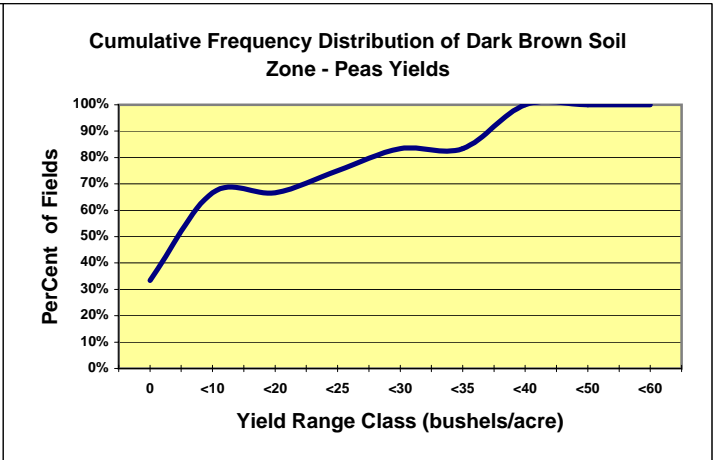
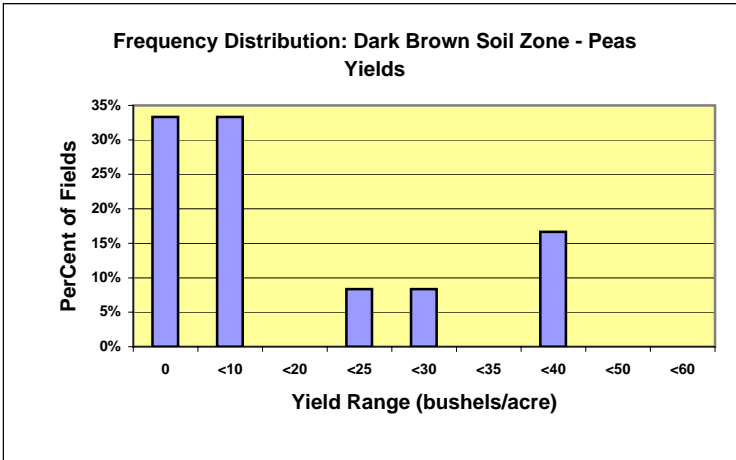
Dark Brown Soil Zone - Malt Barley: 2002

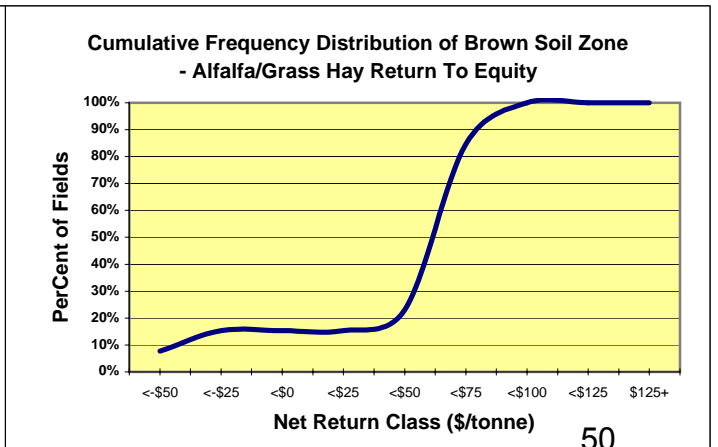
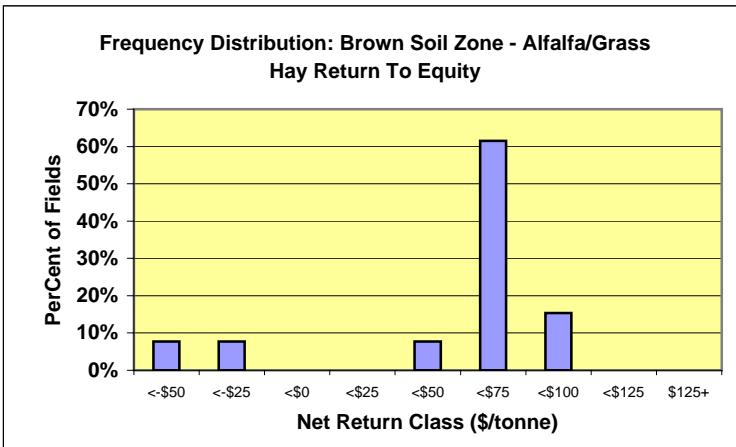
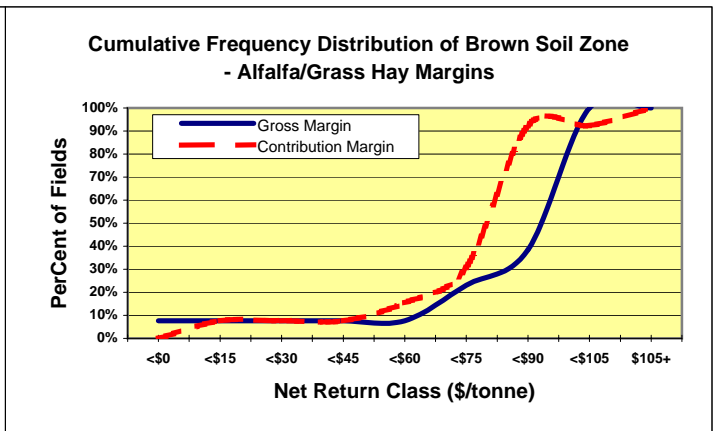
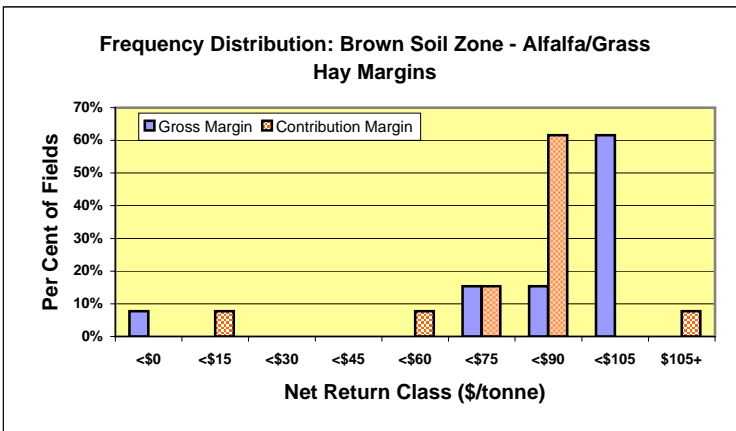
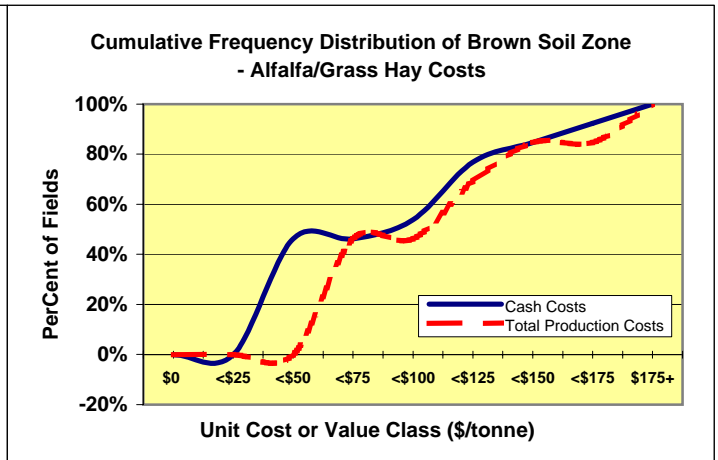
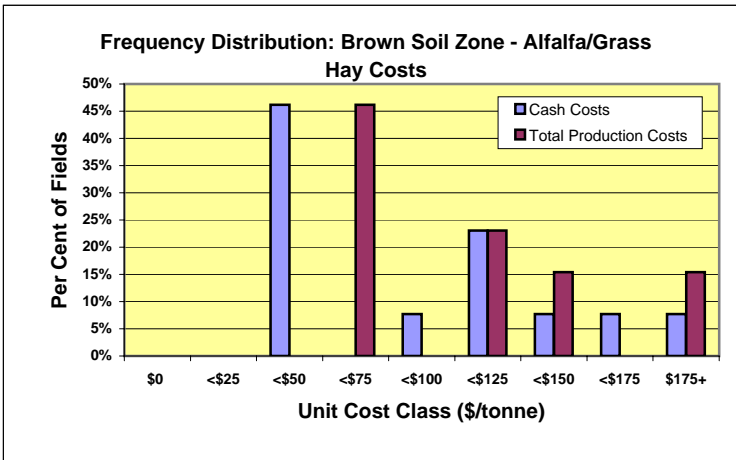
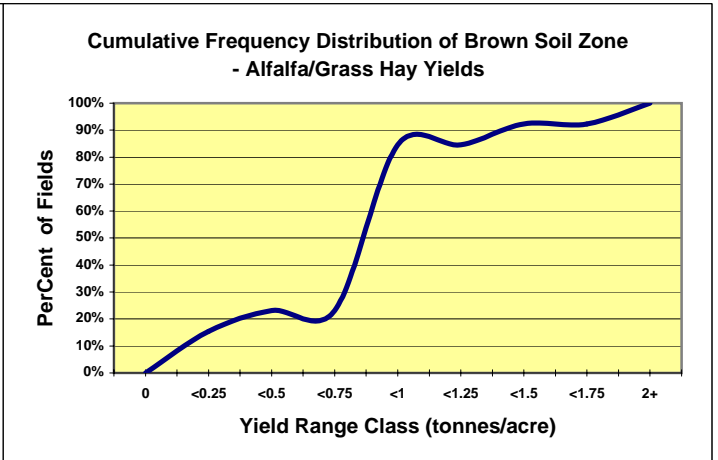
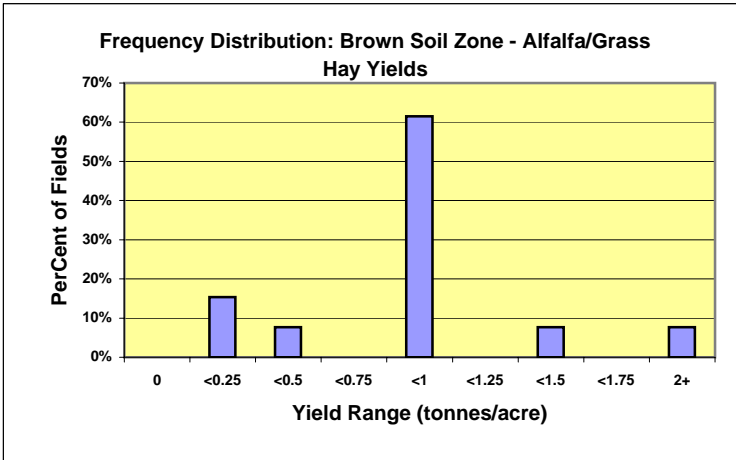


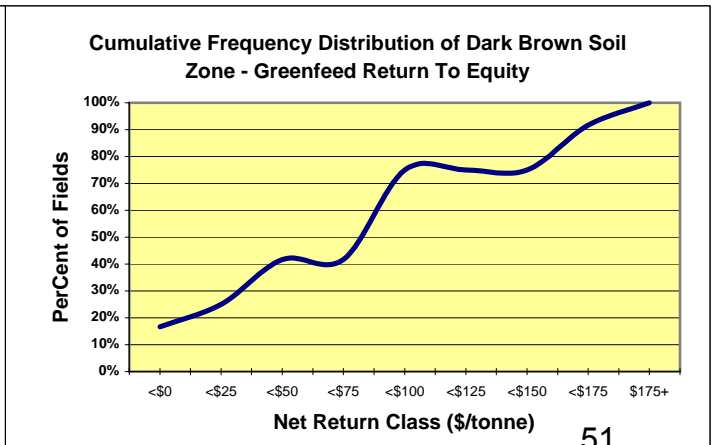
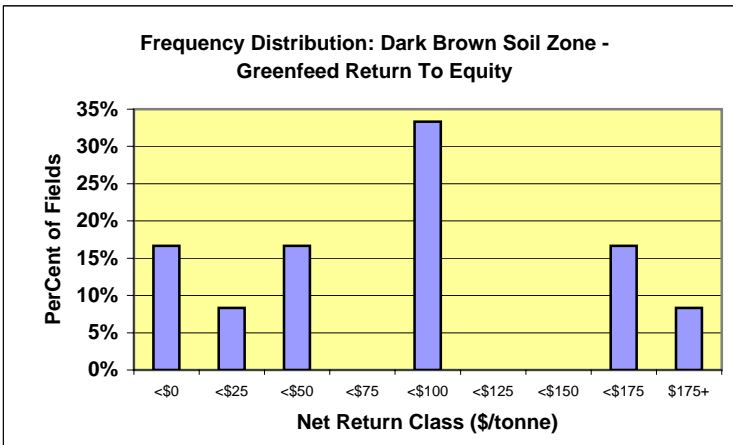
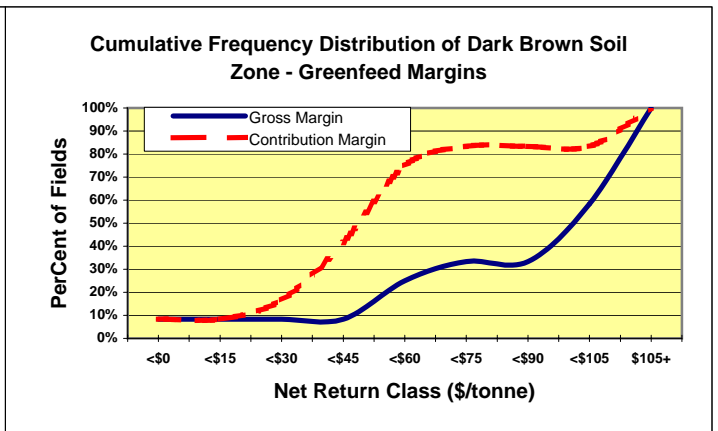
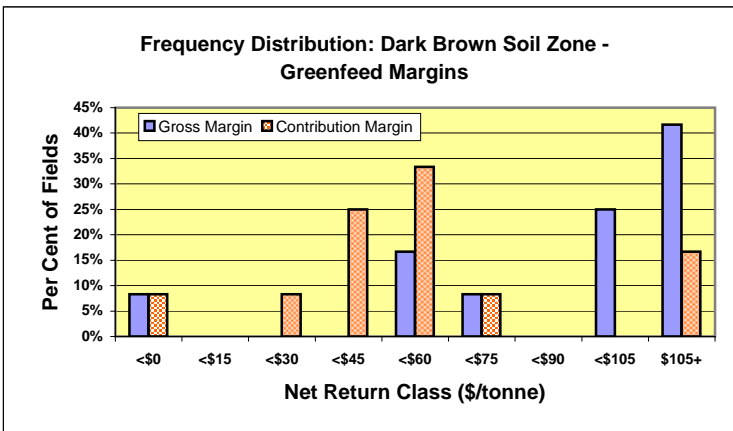
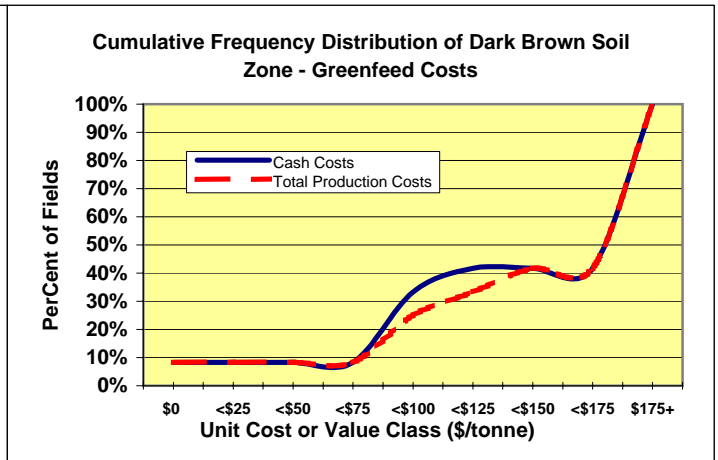
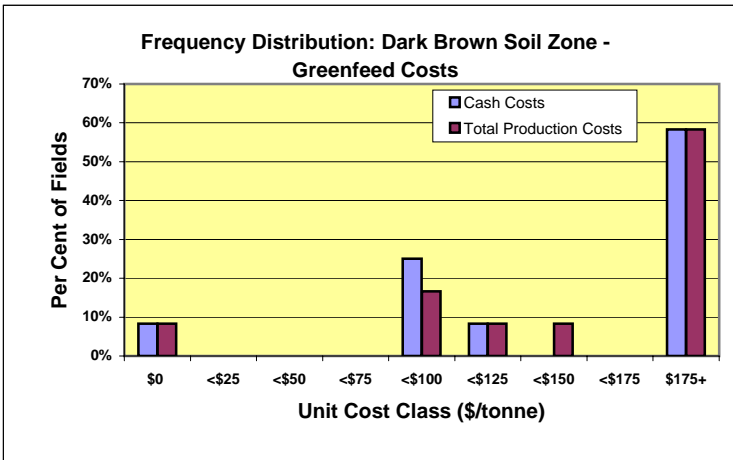
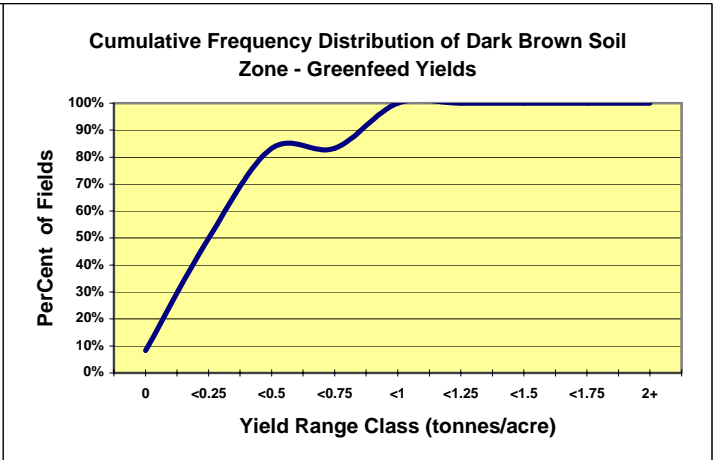
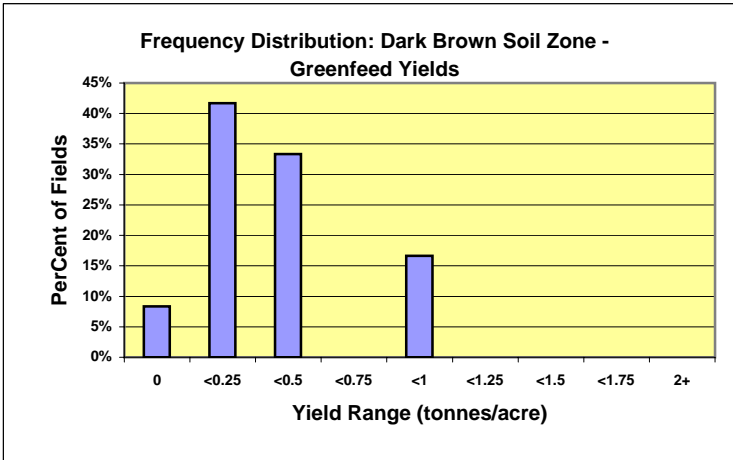
Dark Brown Soil Zone - Feed Barley: 2002



Dark Brown Soil Zone - Peas: 2002







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