
2022 cost and return benchmarks for crops and forages: brown soil zone

AgriProfit\$ business analysis and research program



Agriculture and Irrigation
Government of Alberta

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2022 Cost and Return Benchmarks for Crops and Forages | AgriProfit\$ Business Analysis



Contents

Overview	4
2022 Brown Soil Zone.....	4
Crops.....	5
Spring Wheat	5
Winter Wheat	8
Durum	9
Feed Barley.....	12
Liberty Link Canola	13
Roundup Ready Canola	14
Forages.....	17
Alfalfa/Grass Hay	17
Mixed Grass Hay	18
Greenfeed	19
Grain Silage	20
Definitions	21

Overview

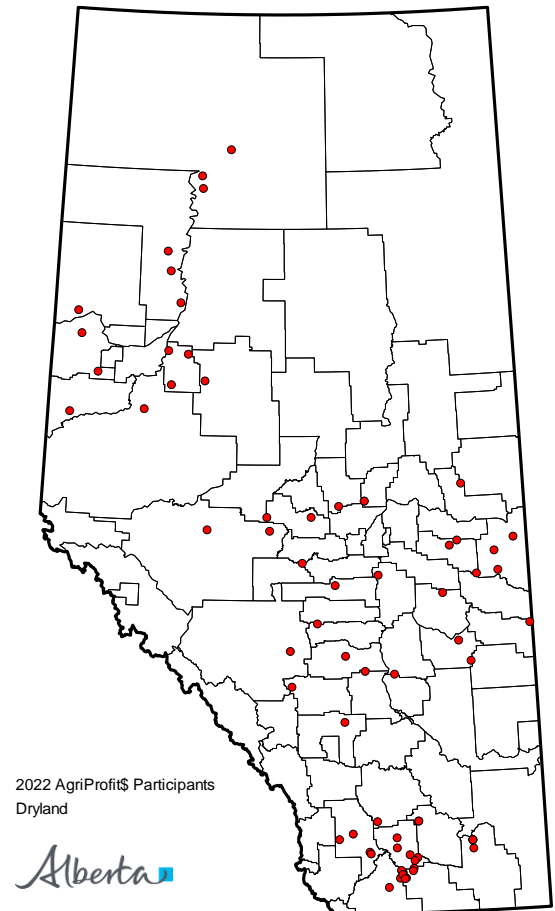
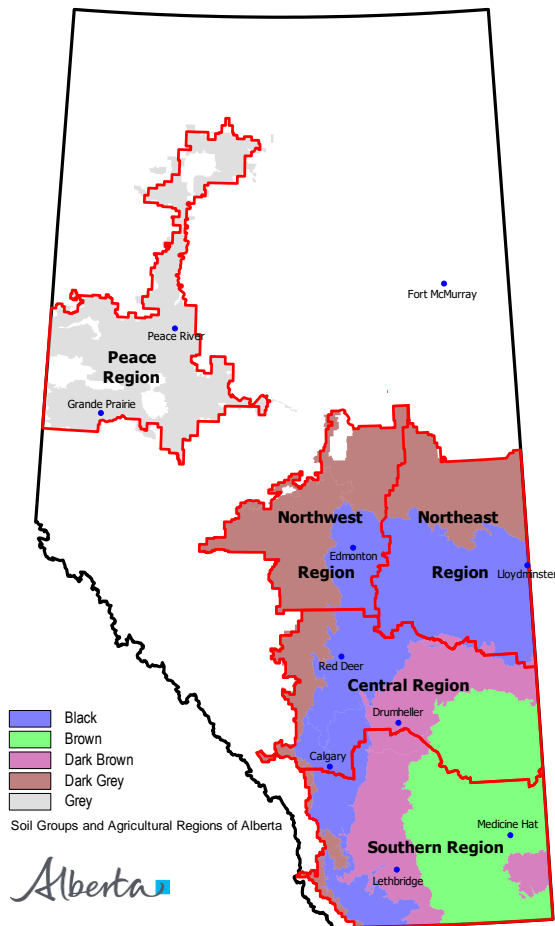
2022 Brown Soil Zone

The AgriProfit\$ Business Analysis and Research Program provides a provincial overview of costs and returns for field crops and forages. The Trade, Economics and Data Analytics Branch collects cost of production information annually from Alberta producers to generate regional and provincial benchmarks. Producer participants are critical to providing a financial representation of Alberta's cropping industry.

The AgriProfit\$ cropping benchmarks are analyzed by soil zone groups, top third producers, and owned land versus rented land where available. Top third averages are calculated from fields that have the highest return to equity. Analyzing crops by owned versus rented also provides insight into differences in management.

Benchmarks allow for comparison of individual crop costs and returns to other farms in a similar production area. Benchmarks should not replace individual cropping and financial records. There is a danger of over or underestimating costs and returns if basing them on regional and provincial benchmarks and forecasts. Strategic planning is more effective when individual costs are used. Managing unit costs of production is one of the most significant strategies to ensure profitability in a mature commodity market.

The left map shows the various soil zones in Alberta. Please note that farms highlighted within these zones may contain characteristics of neighbouring soil zones. The map on the right shows the distribution of the 2022 dryland participants.



2022 Crops Enterprise Analysis

All Dryland Spring Wheat

	Average \$/Acres	Top 1/3	Average \$/Bushel	Top 1/3
(A)				
1. Crop Sales	538.32	587.81	11.08	10.46
2. Crop Insurance Receipts	17.69	138.77	.36	2.47
3. Miscellaneous Receipts	.08	.00	.00	.00
4. Government Program	28.87	226.50	.59	4.03
5. Additional Revenue from Straw / Aftermath Grazing	.00	.00	.00	.00
GROSS RETURN	584.96	953.08	12.04	16.97
(B)				
1. Seed & Seed Cleaning	28.73	33.79	.59	.60
2. Fertilizer	120.34	68.03	2.48	1.21
3. Chemicals	35.50	8.58	.73	.15
4. Hail / Crop Insurance & Program Premiums	8.56	8.33	.18	.15
5. Trucking & Marketing	1.98	2.70	.04	.05
6. Fuel	17.15	26.56	.35	.47
7. Irrigation Fuel & Electricity	.00	.00	.00	.00
8. Repairs - Machine	13.56	23.79	.28	.42
9. Repairs - Buildings	1.58	1.76	.03	.03
10. Utilities & Miscellaneous Expenses	8.85	14.38	.18	.26
11. Custom Work & Specialized Labour	.91	7.11	.02	.13
12. Operating Interest Paid	12.16	1.32	.25	.02
13. Paid Labour & Benefits	15.42	19.23	.32	.34
14. Unpaid Labour	10.98	38.36	.23	.68
VARIABLE COSTS	275.73	253.94	5.68	4.52
(C)				
1. Cash/Share Rent & Land Lease	56.70	10.62	1.17	.19
2. Taxes, Water Rates, Lic. & Insurance	6.05	10.98	.12	.20
3. Equipment & Buildings	46.06	91.35	.95	1.63
a) Depreciation				
b) Lease Payments	.51	.00	.01	.00
4. Paid Capital Interest	2.77	4.82	.06	.09
TOTAL CAPITAL COSTS	112.08	117.78	2.31	2.10
(D) CASH COSTS (B+C-B14-C3a)	330.77	242.00	6.81	4.31
(E) TOTAL PRODUCTION COSTS (B+C)	387.81	371.72	7.99	6.62
(F) GROSS MARGIN (A-D)	254.19	711.08	5.23	12.66
RETURN TO UNPAID LABOUR (A-E+B14)	208.13	619.72	4.29	11.03
RETURN TO INVESTMENT (A-E+C4)	199.92	586.19	4.12	10.43
RETURN TO EQUITY (A-E)	197.15	581.36	4.06	10.35
INVESTMENT				
Land	1,644.95	3,588.77	33.87	63.88
Buildings	141.63	484.05	2.92	8.62
Machinery	429.50	726.58	8.84	12.93
Irr. Machinery	.00	.00	.00	.00
TOTAL	2,216.08	4,799.40	45.63	85.43
MANAGEMENT				
Yield Per Acre (Bushel)	48.57	56.18		
Expected Market Price Per Bushel	11.08	10.46		

2022 Crops Enterprise Analysis

Owned Dryland Spring Wheat

(A)	Average \$/Acres	Top 1/3	Average \$/Bushel	Top 1/3
1. Crop Sales	537.84	743.11	10.80	10.40
2. Crop Insurance Receipts	52.50	.00	1.05	.00
3. Miscellaneous Receipts	.22	.00	.00	.00
4. Government Program	62.83	273.40	1.26	3.83
5. Additional Revenue from Straw / Aftermath Grazing	.00	.00	.00	.00
GROSS RETURN	653.38	1,016.51	13.12	14.23
(B)				
1. Seed & Seed Cleaning	28.77	34.16	.58	.48
2. Fertilizer	109.87	78.58	2.21	1.10
3. Chemicals	26.98	8.11	.54	.11
4. Hail / Crop Insurance & Program Premiums	10.50	8.80	.21	.12
5. Trucking & Marketing	1.41	4.19	.03	.06
6. Fuel	18.33	21.58	.37	.30
7. Irrigation Fuel & Electricity	.00	.00	.00	.00
8. Repairs - Machine	14.67	21.25	.29	.30
9. Repairs - Buildings	1.65	2.13	.03	.03
10. Utilities & Miscellaneous Expenses	9.20	8.13	.18	.11
11. Custom Work & Specialized Labour	2.69	11.75	.05	.16
12. Operating Interest Paid	4.05	.01	.08	.00
13. Paid Labour & Benefits	11.68	5.78	.23	.08
14. Unpaid Labour	23.10	39.11	.46	.55
VARIABLE COSTS	262.90	243.58	5.28	3.41
(C)				
1. Cash/Share Rent & Land Lease	.00	.00	.00	.00
2. Taxes, Water Rates, Lic. & Insurance	9.28	10.31	.19	.14
3. Equipment & Buildings	50.60	83.62	1.02	1.17
a) Depreciation				
b) Lease Payments	1.52	.00	.03	.00
4. Paid Capital Interest	7.97	7.66	.16	.11
TOTAL CAPITAL COSTS	69.37	101.59	1.39	1.42
(D) CASH COSTS (B+C-B14-C3a)	258.57	222.45	5.19	3.11
(E) TOTAL PRODUCTION COSTS (B+C)	332.27	345.17	6.67	4.83
(F) GROSS MARGIN (A-D)	394.82	794.06	7.93	11.12
RETURN TO UNPAID LABOUR (A-E+B14)	344.22	710.44	6.91	9.95
RETURN TO INVESTMENT (A-E+C4)	329.09	679.00	6.61	9.51
RETURN TO EQUITY (A-E)	321.12	671.34	6.45	9.40
INVESTMENT				
Land	4,881.97	4,403.51	98.04	61.65
Buildings	238.85	582.87	4.80	8.16
Machinery	426.90	605.23	8.57	8.47
Irr. Machinery	.00	.00	.00	.00
TOTAL	5,547.73	5,591.60	111.41	78.28
MANAGEMENT				
Yield Per Acre (Bushel)	49.80	71.43		
Expected Market Price Per Bushel	10.80	10.40		

2022 Crops Enterprise Analysis

Rented Dryland Spring Wheat

	Average \$/Acres	Top 1/3	Average \$/Bushel	Top 1/3
(A)				
1. Crop Sales	538.57	620.46	11.23	12.61
2. Crop Insurance Receipts	.00	.00	.00	.00
3. Miscellaneous Receipts	.01	.00	.00	.00
4. Government Program	11.61	38.65	.24	.79
5. Additional Revenue from Straw / Aftermath Grazing	.00	.00	.00	.00
GROSS RETURN	550.19	659.11	11.48	13.39
(B)				
1. Seed & Seed Cleaning	28.71	26.90	.60	.55
2. Fertilizer	125.66	108.83	2.62	2.21
3. Chemicals	39.83	29.69	.83	.60
4. Hail / Crop Insurance & Program Premiums	7.58	24.98	.16	.51
5. Trucking & Marketing	2.27	7.56	.05	.15
6. Fuel	16.55	21.47	.35	.44
7. Irrigation Fuel & Electricity	.00	.00	.00	.00
8. Repairs - Machine	12.99	8.02	.27	.16
9. Repairs - Buildings	1.55	.60	.03	.01
10. Utilities & Miscellaneous Expenses	8.67	6.85	.18	.14
11. Custom Work & Specialized Labour	.00	.00	.00	.00
12. Operating Interest Paid	16.28	8.91	.34	.18
13. Paid Labour & Benefits	17.32	10.98	.36	.22
14. Unpaid Labour	4.83	8.87	.10	.18
VARIABLE COSTS	282.25	263.65	5.89	5.36
(C)				
1. Cash/Share Rent & Land Lease	85.51	86.25	1.78	1.75
2. Taxes, Water Rates, Lic. & Insurance	4.40	4.14	.09	.08
3. Equipment & Buildings	43.75	24.94	.91	.51
a) Depreciation				
b) Lease Payments	.00	.00	.00	.00
4. Paid Capital Interest	.13	.12	.00	.00
TOTAL CAPITAL COSTS	133.79	115.45	2.79	2.35
(D) CASH COSTS (B+C-B14-C3a)	367.46	345.29	7.66	7.01
(E) TOTAL PRODUCTION COSTS (B+C)	416.04	379.10	8.68	7.70
(F) GROSS MARGIN (A-D)	182.73	313.82	3.81	6.38
RETURN TO UNPAID LABOUR (A-E+B14)	138.98	288.88	2.90	5.87
RETURN TO INVESTMENT (A-E+C4)	134.28	280.13	2.80	5.69
RETURN TO EQUITY (A-E)	134.15	280.01	2.80	5.69
INVESTMENT				
Land	.00	.00	.00	.00
Buildings	92.23	81.86	1.92	1.66
Machinery	430.81	215.68	8.99	4.38
Irr. Machinery	.00	.00	.00	.00
TOTAL	523.04	297.54	10.91	6.04
MANAGEMENT				
Yield Per Acre (Bushel)	47.94	49.22		
Expected Market Price Per Bushel	11.23	12.61		

2022 Crops Enterprise Analysis

All Dryland Winter Wheat

	Average \$/Acres	Top 1/3	Average \$/Bushel	Top 1/3
(A)				
1. Crop Sales	674.68	750.00	11.89	10.00
2. Crop Insurance Receipts	.00	.00	.00	.00
3. Miscellaneous Receipts	.00	.00	.00	.00
4. Government Program	.00	.00	.00	.00
5. Additional Revenue from Straw / Aftermath Grazing	.00	.00	.00	.00
GROSS RETURN	674.68	750.00	11.89	10.00
(B)				
1. Seed & Seed Cleaning	27.75	22.00	.49	.29
2. Fertilizer	96.46	81.00	1.70	1.08
3. Chemicals	30.07	29.35	.53	.39
4. Hail / Crop Insurance & Program Premiums	23.07	19.32	.41	.26
5. Trucking & Marketing	5.96	3.61	.10	.05
6. Fuel	15.41	6.85	.27	.09
7. Irrigation Fuel & Electricity	.00	.00	.00	.00
8. Repairs - Machine	7.16	24.22	.13	.32
9. Repairs - Buildings	.79	3.09	.01	.04
10. Utilities & Miscellaneous Expenses	7.82	23.91	.14	.32
11. Custom Work & Specialized Labour	3.30	25.99	.06	.35
12. Operating Interest Paid	13.06	9.24	.23	.12
13. Paid Labour & Benefits	12.29	15.97	.22	.21
14. Unpaid Labour	7.32	19.40	.13	.26
VARIABLE COSTS	250.44	283.95	4.41	3.79
(C)				
1. Cash/Share Rent & Land Lease	52.38	.00	.92	.00
2. Taxes, Water Rates, Lic. & Insurance	5.54	21.03	.10	.28
3. Equipment & Buildings	38.57	86.16	.68	1.15
a) Depreciation				
b) Lease Payments	.00	.00	.00	.00
4. Paid Capital Interest	.00	.00	.00	.00
TOTAL CAPITAL COSTS	96.50	107.19	1.70	1.43
(D) CASH COSTS (B+C-B14-C3a)	301.05	285.58	5.31	3.81
(E) TOTAL PRODUCTION COSTS (B+C)	346.94	391.14	6.11	5.22
(F) GROSS MARGIN (A-D)	373.64	464.42	6.58	6.19
RETURN TO UNPAID LABOUR (A-E+B14)	335.06	378.26	5.90	5.04
RETURN TO INVESTMENT (A-E+C4)	327.74	358.86	5.78	4.78
RETURN TO EQUITY (A-E)	327.74	358.86	5.78	4.78
INVESTMENT				
Land	1,896.83	4,000.00	33.43	53.33
Buildings	165.16	664.88	2.91	8.87
Machinery	320.11	553.04	5.64	7.37
Irr. Machinery	.00	.00	.00	.00
TOTAL	2,382.10	5,217.92	41.98	69.57
MANAGEMENT				
Yield Per Acre (Bushel)	56.75	75.00		
Expected Market Price Per Bushel	11.89	10.00		

2022 Crops Enterprise Analysis

All Dryland Durum

	Average \$/Acres	Top 1/3	Average \$/Bushel	Top 1/3
(A)				
1. Crop Sales	433.52	749.09	12.36	13.50
2. Crop Insurance Receipts	106.44	.00	3.03	.00
3. Miscellaneous Receipts	.00	.00	.00	.00
4. Government Program	.00	.00	.00	.00
5. Additional Revenue from Straw / Aftermath Grazing	.00	.00	.00	.00
GROSS RETURN	539.96	749.09	15.39	13.50
(B)				
1. Seed & Seed Cleaning	24.47	27.84	.70	.50
2. Fertilizer	37.98	108.71	1.08	1.96
3. Chemicals	31.33	29.44	.89	.53
4. Hail / Crop Insurance & Program Premiums	10.11	25.79	.29	.46
5. Trucking & Marketing	2.68	7.98	.08	.14
6. Fuel	19.42	20.54	.55	.37
7. Irrigation Fuel & Electricity	.00	.00	.00	.00
8. Repairs - Machine	30.41	5.93	.87	.11
9. Repairs - Buildings	.76	.57	.02	.01
10. Utilities & Miscellaneous Expenses	18.27	6.57	.52	.12
11. Custom Work & Specialized Labour	6.91	.00	.20	.00
12. Operating Interest Paid	5.84	10.31	.17	.19
13. Paid Labour & Benefits	54.58	11.27	1.56	.20
14. Unpaid Labour	6.44	4.42	.18	.08
VARIABLE COSTS	249.20	259.37	7.10	4.67
(C)				
1. Cash/Share Rent & Land Lease	71.40	47.07	2.04	.85
2. Taxes, Water Rates, Lic. & Insurance	8.35	8.05	.24	.15
3. Equipment & Buildings	5.24	23.07	.15	.42
a) Depreciation				
b) Lease Payments	37.89	.00	1.08	.00
4. Paid Capital Interest	.00	.00	.00	.00
TOTAL CAPITAL COSTS	122.89	78.18	3.50	1.41
(D) CASH COSTS (B+C-B14-C3a)	360.40	310.06	10.28	5.59
(E) TOTAL PRODUCTION COSTS (B+C)	372.08	337.55	10.61	6.08
(F) GROSS MARGIN (A-D)	179.56	439.03	5.12	7.91
RETURN TO UNPAID LABOUR (A-E+B14)	174.32	415.97	4.97	7.50
RETURN TO INVESTMENT (A-E+C4)	167.88	411.54	4.79	7.42
RETURN TO EQUITY (A-E)	167.88	411.54	4.79	7.42
INVESTMENT				
Land	530.35	2,325.58	15.12	41.91
Buildings	34.42	76.90	.98	1.39
Machinery	72.19	199.11	2.06	3.59
Irr. Machinery	.00	.00	.00	.00
TOTAL	636.96	2,601.60	18.16	46.89
MANAGEMENT				
Yield Per Acre (Bushel)	35.08	55.49		
Expected Market Price Per Bushel	12.36	13.50		

2022 Crops Enterprise Analysis

Owned Dryland Durum

	Average \$/Acres	Top 1/3	Average \$/Bushel	Top 1/3
(A)				
1. Crop Sales	594.99	783.00	13.76	13.50
2. Crop Insurance Receipts	.00	.00	.00	.00
3. Miscellaneous Receipts	.00	.00	.00	.00
4. Government Program	.00	.00	.00	.00
5. Additional Revenue from Straw / Aftermath Grazing	.00	.00	.00	.00
GROSS RETURN	594.99	783.00	13.76	13.50
(B)				
1. Seed & Seed Cleaning	33.19	27.00	.77	.47
2. Fertilizer	63.39	110.00	1.47	1.90
3. Chemicals	31.65	28.75	.73	.50
4. Hail / Crop Insurance & Program Premiums	24.52	25.70	.57	.44
5. Trucking & Marketing	4.79	8.37	.11	.14
6. Fuel	11.46	21.54	.27	.37
7. Irrigation Fuel & Electricity	.00	.00	.00	.00
8. Repairs - Machine	11.70	6.22	.27	.11
9. Repairs - Buildings	6.52	.60	.15	.01
10. Utilities & Miscellaneous Expenses	12.41	6.89	.29	.12
11. Custom Work & Specialized Labour	5.37	.00	.12	.00
12. Operating Interest Paid	7.20	9.87	.17	.17
13. Paid Labour & Benefits	8.00	11.43	.18	.20
14. Unpaid Labour	11.72	4.32	.27	.07
VARIABLE COSTS	231.92	260.68	5.36	4.49
(C)				
1. Cash/Share Rent & Land Lease	.00	.00	.00	.00
2. Taxes, Water Rates, Lic. & Insurance	14.86	13.64	.34	.24
3. Equipment & Buildings	36.83	21.92	.85	.38
a) Depreciation				
b) Lease Payments	.00	.00	.00	.00
4. Paid Capital Interest	.00	.00	.00	.00
TOTAL CAPITAL COSTS	51.69	35.56	1.20	.61
(D) CASH COSTS (B+C-B14-C3a)	235.06	269.99	5.44	4.66
(E) TOTAL PRODUCTION COSTS (B+C)	283.61	296.23	6.56	5.11
(F) GROSS MARGIN (A-D)	359.92	513.01	8.32	8.84
RETURN TO UNPAID LABOUR (A-E+B14)	323.09	491.09	7.47	8.47
RETURN TO INVESTMENT (A-E+C4)	311.37	486.77	7.20	8.39
RETURN TO EQUITY (A-E)	311.37	486.77	7.20	8.39
INVESTMENT				
Land	4,712.26	5,000.00	108.97	86.21
Buildings	221.97	75.15	5.13	1.30
Machinery	271.81	187.06	6.29	3.23
Irr. Machinery	.00	.00	.00	.00
TOTAL	5,206.05	5,262.21	120.39	90.73
MANAGEMENT				
Yield Per Acre (Bushel)	43.24	58.00		
Expected Market Price Per Bushel	13.76	13.50		

2022 Crops Enterprise Analysis

Rented Dryland Durum

(A)	Average \$/Acres	Top 1/3	Average \$/Bushel	Top 1/3
1. Crop Sales	413.04	501.04	12.13	12.49
2. Crop Insurance Receipts	119.94	159.59	3.52	3.98
3. Miscellaneous Receipts	.00	.00	.00	.00
4. Government Program	.00	.00	.00	.00
5. Additional Revenue from Straw / Aftermath Grazing	.00	.00	.00	.00
GROSS RETURN	532.98	660.64	15.66	16.47
(B)				
1. Seed & Seed Cleaning	23.36	24.50	.69	.61
2. Fertilizer	34.76	47.04	1.02	1.17
3. Chemicals	31.28	28.67	.92	.71
4. Hail / Crop Insurance & Program Premiums	8.29	11.61	.24	.29
5. Trucking & Marketing	2.42	3.68	.07	.09
6. Fuel	20.43	21.45	.60	.53
7. Irrigation Fuel & Electricity	.00	.00	.00	.00
8. Repairs - Machine	32.78	28.50	.96	.71
9. Repairs - Buildings	.03	.15	.00	.00
10. Utilities & Miscellaneous Expenses	19.01	14.51	.56	.36
11. Custom Work & Specialized Labour	7.10	5.49	.21	.14
12. Operating Interest Paid	5.67	6.72	.17	.17
13. Paid Labour & Benefits	60.49	38.47	1.78	.96
14. Unpaid Labour	5.77	5.11	.17	.13
VARIABLE COSTS	251.39	235.89	7.39	5.88
(C)				
1. Cash/Share Rent & Land Lease	80.45	81.96	2.36	2.04
2. Taxes, Water Rates, Lic. & Insurance	7.53	7.20	.22	.18
3. Equipment & Buildings				
a) Depreciation	1.24	5.36	.04	.13
b) Lease Payments	42.70	29.54	1.25	.74
4. Paid Capital Interest	.00	.00	.00	.00
TOTAL CAPITAL COSTS	131.92	124.07	3.88	3.09
(D) CASH COSTS (B+C-B14-C3a)	376.30	349.49	11.05	8.71
(E) TOTAL PRODUCTION COSTS (B+C)	383.30	359.96	11.26	8.98
(F) GROSS MARGIN (A-D)	156.69	311.15	4.60	7.76
RETURN TO UNPAID LABOUR (A-E+B14)	155.45	305.79	4.57	7.63
RETURN TO INVESTMENT (A-E+C4)	149.68	300.68	4.40	7.50
RETURN TO EQUITY (A-E)	149.68	300.68	4.40	7.50
INVESTMENT				
Land	.00	.00	.00	.00
Buildings	10.63	23.69	.31	.59
Machinery	46.87	70.01	1.38	1.75
Irr. Machinery	.00	.00	.00	.00
TOTAL	57.50	93.70	1.69	2.34
MANAGEMENT				
Yield Per Acre (Bushel)	34.04	40.10		
Expected Market Price Per Bushel	12.13	12.49		

2022 Crops Enterprise Analysis

All Dryland Feed Barley

	Average \$/Acres	Top 1/3	Average \$/Bushel	Top 1/3
(A)				
1. Crop Sales	633.64	856.68	8.89	9.52
2. Crop Insurance Receipts	6.69	17.24	.09	.19
3. Miscellaneous Receipts	.11	.00	.00	.00
4. Government Program	15.20	39.16	.21	.44
5. Additional Revenue from Straw / Aftermath Grazing	.00	.00	.00	.00
GROSS RETURN	655.64	913.08	9.20	10.14
(B)				
1. Seed & Seed Cleaning	22.38	19.67	.31	.22
2. Fertilizer	132.29	86.65	1.86	.96
3. Chemicals	35.39	33.01	.50	.37
4. Hail / Crop Insurance & Program Premiums	21.01	25.09	.29	.28
5. Trucking & Marketing	2.68	5.15	.04	.06
6. Fuel	16.66	23.60	.23	.26
7. Irrigation Fuel & Electricity	.00	.00	.00	.00
8. Repairs - Machine	8.68	10.23	.12	.11
9. Repairs - Buildings	2.03	1.41	.03	.02
10. Utilities & Miscellaneous Expenses	6.30	9.82	.09	.11
11. Custom Work & Specialized Labour	2.74	1.33	.04	.01
12. Operating Interest Paid	3.70	6.07	.05	.07
13. Paid Labour & Benefits	5.85	11.51	.08	.13
14. Unpaid Labour	20.17	10.53	.28	.12
VARIABLE COSTS	279.87	244.07	3.93	2.71
(C)				
1. Cash/Share Rent & Land Lease	64.83	49.05	.91	.54
2. Taxes, Water Rates, Lic. & Insurance	6.11	7.23	.09	.08
3. Equipment & Buildings	20.84	27.71	.29	.31
a) Depreciation				
b) Lease Payments	2.35	.00	.03	.00
4. Paid Capital Interest	.86	1.10	.01	.01
TOTAL CAPITAL COSTS	95.00	85.08	1.33	.95
(D) CASH COSTS (B+C-B14-C3a)	333.86	290.92	4.68	3.23
(E) TOTAL PRODUCTION COSTS (B+C)	374.87	329.15	5.26	3.66
(F) GROSS MARGIN (A-D)	321.78	622.17	4.51	6.91
RETURN TO UNPAID LABOUR (A-E+B14)	300.95	594.46	4.22	6.60
RETURN TO INVESTMENT (A-E+C4)	281.64	585.03	3.95	6.50
RETURN TO EQUITY (A-E)	280.77	583.93	3.94	6.49
INVESTMENT				
Land	2,732.57	2,021.31	38.33	22.46
Buildings	88.89	105.37	1.25	1.17
Machinery	183.15	233.31	2.57	2.59
Irr. Machinery	.00	.00	.00	.00
TOTAL	3,004.60	2,359.99	42.14	26.22
MANAGEMENT				
Yield Per Acre (Bushel)	71.29	90.01		
Expected Market Price Per Bushel	8.89	9.52		

2022 Crops Enterprise Analysis

All Dryland Liberty Link Canola

(A)	Average \$/Acres	Top 1/3	Average \$/Bushel	Top 1/3
1. Crop Sales	664.89	579.70	20.60	18.70
2. Crop Insurance Receipts	.00	.00	.00	.00
3. Miscellaneous Receipts	.00	.00	.00	.00
4. Government Program	.00	.00	.00	.00
5. Additional Revenue from Straw / Aftermath Grazing	.00	.00	.00	.00
GROSS RETURN	664.89	579.70	20.60	18.70
(B)				
1. Seed & Seed Cleaning	75.59	80.00	2.34	2.58
2. Fertilizer	173.10	73.25	5.36	2.36
3. Chemicals	39.30	34.25	1.22	1.10
4. Hail / Crop Insurance & Program Premiums	8.78	38.50	.27	1.24
5. Trucking & Marketing	.64	.00	.02	.00
6. Fuel	15.04	.00	.47	.00
7. Irrigation Fuel & Electricity	.00	.00	.00	.00
8. Repairs - Machine	17.33	.00	.54	.00
9. Repairs - Buildings	2.18	.00	.07	.00
10. Utilities & Miscellaneous Expenses	9.49	.00	.29	.00
11. Custom Work & Specialized Labour	.33	.00	.01	.00
12. Operating Interest Paid	23.14	19.44	.72	.63
13. Paid Labour & Benefits	21.02	7.91	.65	.26
14. Unpaid Labour	4.44	6.51	.14	.21
VARIABLE COSTS	390.38	259.86	12.09	8.38
(C)				
1. Cash/Share Rent & Land Lease	.00	.00	.00	.00
2. Taxes, Water Rates, Lic. & Insurance	11.39	.00	.35	.00
3. Equipment & Buildings	56.27	46.56	1.74	1.50
a) Depreciation				
b) Lease Payments	.00	.00	.00	.00
4. Paid Capital Interest	.00	.00	.00	.00
TOTAL CAPITAL COSTS	67.66	46.56	2.10	1.50
(D) CASH COSTS (B+C-B14-C3a)	397.32	253.35	12.31	8.17
(E) TOTAL PRODUCTION COSTS (B+C)	458.03	306.41	14.19	9.88
(F) GROSS MARGIN (A-D)	267.57	326.35	8.29	10.53
RETURN TO UNPAID LABOUR (A-E+B14)	211.30	279.79	6.55	9.03
RETURN TO INVESTMENT (A-E+C4)	206.86	273.29	6.41	8.82
RETURN TO EQUITY (A-E)	206.86	273.29	6.41	8.82
INVESTMENT				
Land	3,936.81	5,000.00	121.95	161.29
Buildings	113.65	112.82	3.52	3.64
Machinery	563.42	446.18	17.45	14.39
Irr. Machinery	.00	.00	.00	.00
TOTAL	4,613.87	5,559.00	142.93	179.32
MANAGEMENT				
Yield Per Acre (Bushel)	32.28	31.00		
Expected Market Price Per Bushel	20.60	18.70		

2022 Crops Enterprise Analysis

All Dryland Roundup Ready Canola

	Average \$/Acres	Top 1/3	Average \$/Bushel	Top 1/3
(A)				
1. Crop Sales	556.69	636.17	16.63	17.50
2. Crop Insurance Receipts	199.42	34.36	5.96	.95
3. Miscellaneous Receipts	.14	.00	.00	.00
4. Government Program	51.09	398.12	1.53	10.95
5. Additional Revenue from Straw / Aftermath Grazing	.00	.00	.00	.00
GROSS RETURN	807.33	1,068.65	24.11	29.40
(B)				
1. Seed & Seed Cleaning	59.79	63.00	1.79	1.73
2. Fertilizer	182.33	125.00	5.45	3.44
3. Chemicals	25.52	14.20	.76	.39
4. Hail / Crop Insurance & Program Premiums	25.29	7.43	.76	.20
5. Trucking & Marketing	3.33	.00	.10	.00
6. Fuel	18.29	20.87	.55	.57
7. Irrigation Fuel & Electricity	.00	.00	.00	.00
8. Repairs - Machine	8.57	24.80	.26	.68
9. Repairs - Buildings	.31	.57	.01	.02
10. Utilities & Miscellaneous Expenses	4.47	6.48	.13	.18
11. Custom Work & Specialized Labour	.00	.00	.00	.00
12. Operating Interest Paid	3.89	.02	.12	.00
13. Paid Labour & Benefits	5.55	6.83	.17	.19
14. Unpaid Labour	25.62	51.14	.77	1.41
VARIABLE COSTS	362.96	320.34	10.84	8.81
(C)				
1. Cash/Share Rent & Land Lease	39.40	22.85	1.18	.63
2. Taxes, Water Rates, Lic. & Insurance	5.53	3.87	.17	.11
3. Equipment & Buildings				
a) Depreciation	21.29	53.07	.64	1.46
b) Lease Payments	2.89	.00	.09	.00
4. Paid Capital Interest	1.60	7.90	.05	.22
TOTAL CAPITAL COSTS	70.70	87.69	2.11	2.41
(D) CASH COSTS (B+C-B14-C3a)	386.75	303.82	11.55	8.36
(E) TOTAL PRODUCTION COSTS (B+C)	433.66	408.03	12.95	11.22
(F) GROSS MARGIN (A-D)	420.58	764.83	12.56	21.04
RETURN TO UNPAID LABOUR (A-E+B14)	399.29	711.76	11.93	19.58
RETURN TO INVESTMENT (A-E+C4)	375.27	668.53	11.21	18.39
RETURN TO EQUITY (A-E)	373.67	660.62	11.16	18.17
INVESTMENT				
Land	2,920.05	3,704.47	87.21	101.90
Buildings	76.93	144.21	2.30	3.97
Machinery	194.96	481.88	5.82	13.26
Irr. Machinery	.00	.00	.00	.00
TOTAL	3,191.93	4,330.56	95.33	119.13
MANAGEMENT				
Yield Per Acre (Bushel)	33.48	36.35		
Expected Market Price Per Bushel	16.63	17.50		

2022 Crops Enterprise Analysis

Owned Dryland Roundup Ready Canola

	Average \$/Acres	Top 1/3	Average \$/Bushel	Top 1/3
(A)				
1. Crop Sales	565.52	634.07	16.97	17.50
2. Crop Insurance Receipts	167.92	34.36	5.04	.95
3. Miscellaneous Receipts	.12	.00	.00	.00
4. Government Program	70.36	398.12	2.11	10.99
5. Additional Revenue from Straw / Aftermath Grazing	.00	.00	.00	.00
GROSS RETURN	803.91	1,066.56	24.12	29.44
(B)				
1. Seed & Seed Cleaning	59.60	63.00	1.79	1.74
2. Fertilizer	172.58	125.00	5.18	3.45
3. Chemicals	22.47	14.20	.67	.39
4. Hail / Crop Insurance & Program Premiums	23.99	6.91	.72	.19
5. Trucking & Marketing	3.50	.00	.10	.00
6. Fuel	18.48	20.87	.55	.58
7. Irrigation Fuel & Electricity	.00	.00	.00	.00
8. Repairs - Machine	9.40	24.80	.28	.68
9. Repairs - Buildings	.35	.57	.01	.02
10. Utilities & Miscellaneous Expenses	4.72	6.48	.14	.18
11. Custom Work & Specialized Labour	.00	.00	.00	.00
12. Operating Interest Paid	4.10	.02	.12	.00
13. Paid Labour & Benefits	5.99	6.83	.18	.19
14. Unpaid Labour	25.20	51.14	.76	1.41
VARIABLE COSTS	350.38	319.82	10.51	8.83
(C)				
1. Cash/Share Rent & Land Lease	.00	.00	.00	.00
2. Taxes, Water Rates, Lic. & Insurance	7.72	4.79	.23	.13
3. Equipment & Buildings	23.27	53.07	.70	1.46
a) Depreciation				
b) Lease Payments	2.39	.00	.07	.00
4. Paid Capital Interest	3.01	11.16	.09	.31
TOTAL CAPITAL COSTS	36.40	69.01	1.09	1.90
(D) CASH COSTS (B+C-B14-C3a)	338.30	284.62	10.15	7.86
(E) TOTAL PRODUCTION COSTS (B+C)	386.78	388.83	11.60	10.73
(F) GROSS MARGIN (A-D)	465.61	781.93	13.97	21.58
RETURN TO UNPAID LABOUR (A-E+B14)	442.34	728.86	13.27	20.12
RETURN TO INVESTMENT (A-E+C4)	420.15	688.88	12.61	19.01
RETURN TO EQUITY (A-E)	417.14	677.72	12.51	18.70
INVESTMENT				
Land	5,654.83	5,500.00	169.65	151.80
Buildings	80.60	144.21	2.42	3.98
Machinery	211.59	481.88	6.35	13.30
Irr. Machinery	.00	.00	.00	.00
TOTAL	5,947.02	6,126.10	178.42	169.08
MANAGEMENT				
Yield Per Acre (Bushel)	33.33	36.23		
Expected Market Price Per Bushel	16.97	17.50		

2022 Crops Enterprise Analysis

Rented Dryland Roundup Ready Canola

	Average \$/Acres	Top 1/3	Average \$/Bushel	Top 1/3
(A)				
1. Crop Sales	547.26	640.50	16.27	17.50
2. Crop Insurance Receipts	233.05	34.36	6.93	.94
3. Miscellaneous Receipts	.17	.00	.00	.00
4. Government Program	30.50	398.12	.91	10.88
5. Additional Revenue from Straw / Aftermath Grazing	.00	.00	.00	.00
GROSS RETURN	810.98	1,072.98	24.11	29.32
(B)				
1. Seed & Seed Cleaning	60.00	63.00	1.78	1.72
2. Fertilizer	192.74	125.00	5.73	3.42
3. Chemicals	28.78	14.20	.86	.39
4. Hail / Crop Insurance & Program Premiums	26.68	8.50	.79	.23
5. Trucking & Marketing	3.14	.00	.09	.00
6. Fuel	18.10	20.87	.54	.57
7. Irrigation Fuel & Electricity	.00	.00	.00	.00
8. Repairs - Machine	7.68	24.80	.23	.68
9. Repairs - Buildings	.26	.57	.01	.02
10. Utilities & Miscellaneous Expenses	4.20	6.48	.12	.18
11. Custom Work & Specialized Labour	.00	.00	.00	.00
12. Operating Interest Paid	3.67	.02	.11	.00
13. Paid Labour & Benefits	5.08	6.83	.15	.19
14. Unpaid Labour	26.07	51.14	.77	1.40
VARIABLE COSTS	376.40	321.41	11.19	8.78
(C)				
1. Cash/Share Rent & Land Lease	81.46	70.00	2.42	1.91
2. Taxes, Water Rates, Lic. & Insurance	3.19	1.97	.09	.05
3. Equipment & Buildings	19.17	53.07	.57	1.45
a) Depreciation				
b) Lease Payments	3.41	.00	.10	.00
4. Paid Capital Interest	.09	1.19	.00	.03
TOTAL CAPITAL COSTS	107.32	126.23	3.19	3.45
(D) CASH COSTS (B+C-B14-C3a)	438.47	343.43	13.03	9.38
(E) TOTAL PRODUCTION COSTS (B+C)	483.71	447.64	14.38	12.23
(F) GROSS MARGIN (A-D)	372.50	729.56	11.07	19.93
RETURN TO UNPAID LABOUR (A-E+B14)	353.34	676.49	10.50	18.48
RETURN TO INVESTMENT (A-E+C4)	327.36	626.54	9.73	17.12
RETURN TO EQUITY (A-E)	327.26	625.35	9.73	17.09
INVESTMENT				
Land	.00	.00	.00	.00
Buildings	73.01	144.21	2.17	3.94
Machinery	177.20	481.88	5.27	13.17
Irr. Machinery	.00	.00	.00	.00
TOTAL	250.21	626.10	7.44	17.11
MANAGEMENT				
Yield Per Acre (Bushel)	33.64	36.60		
Expected Market Price Per Bushel	16.27	17.50		

2022 Crops Enterprise Analysis

All Dryland Alfalfa/Grass Hay

	Average \$/Acres	Top 1/3	Average \$/Tonne	Top 1/3
(A)				
1. Crop Sales	312.02	433.47	270.06	297.85
2. Crop Insurance Receipts	10.80	.00	9.35	.00
3. Miscellaneous Receipts	.23	.38	.20	.26
4. Government Program	.00	.00	.00	.00
5. Additional Revenue from Straw / Aftermath Grazing	.00	.00	.00	.00
GROSS RETURN	323.05	433.85	279.61	298.12
(B)				
1. Seed & Seed Cleaning	2.24	3.71	1.94	2.55
2. Fertilizer	7.84	13.01	6.79	8.94
3. Chemicals	.00	.00	.00	.00
4. Hail / Crop Insurance & Program Premiums	.42	.00	.36	.00
5. Trucking & Marketing	.00	.00	.00	.00
6. Fuel	7.28	5.70	6.30	3.92
7. Irrigation Fuel & Electricity	.00	.00	.00	.00
8. Repairs - Machine	22.47	25.35	19.45	17.42
9. Repairs - Buildings	1.10	.69	.96	.48
10. Utilities & Miscellaneous Expenses	5.50	5.28	4.76	3.63
11. Custom Work & Specialized Labour	45.70	75.82	39.55	52.10
12. Operating Interest Paid	2.50	3.77	2.16	2.59
13. Paid Labour & Benefits	9.94	10.42	8.60	7.16
14. Unpaid Labour	22.62	8.40	19.58	5.77
VARIABLE COSTS	127.61	152.16	110.45	104.56
(C)				
1. Cash/Share Rent & Land Lease	3.32	.00	2.87	.00
2. Taxes, Water Rates, Lic. & Insurance	10.00	11.80	8.66	8.11
3. Equipment & Buildings	29.86	31.07	25.85	21.35
a) Depreciation				
b) Lease Payments	.00	.00	.00	.00
4. Paid Capital Interest	1.76	.14	1.52	.10
TOTAL CAPITAL COSTS	44.94	43.01	38.89	29.55
(D) CASH COSTS (B+C-B14-C3a)	120.07	155.70	103.92	106.99
(E) TOTAL PRODUCTION COSTS (B+C)	172.55	195.17	149.35	134.11
(F) GROSS MARGIN (A-D)	202.99	278.15	175.69	191.13
RETURN TO UNPAID LABOUR (A-E+B14)	173.12	247.08	149.84	169.78
RETURN TO INVESTMENT (A-E+C4)	152.26	238.82	131.78	164.11
RETURN TO EQUITY (A-E)	150.50	238.68	130.26	164.01
INVESTMENT				
Land	3,065.81	4,061.22	2,653.49	2,790.64
Buildings	56.21	45.52	48.65	31.28
Machinery	277.61	294.37	240.28	202.28
Irr. Machinery	.00	.00	.00	.00
TOTAL	3,399.63	4,401.12	2,942.42	3,024.19
MANAGEMENT				
Yield Per Acre (Tonne)	1.16	1.46		
Expected Market Price Per Tonne	270.06	297.85		

2022 Crops Enterprise Analysis

All Dryland Mixed Grass Hay

	Average \$/Acres	Top 1/3	Average \$/Tonne	Top 1/3
(A)				
1. Crop Sales	94.06	74.40	173.08	147.89
2. Crop Insurance Receipts	23.68	54.70	43.57	108.72
3. Miscellaneous Receipts	12.06	.00	22.19	.00
4. Government Program	.00	.00	.00	.00
5. Additional Revenue from Straw / Aftermath Grazing	.00	.00	.00	.00
GROSS RETURN	129.79	129.10	238.84	256.61
(B)				
1. Seed & Seed Cleaning	.00	.00	.00	.00
2. Fertilizer	19.54	.00	35.96	.00
3. Chemicals	.00	.00	.00	.00
4. Hail / Crop Insurance & Program Premiums	.92	2.12	1.69	4.22
5. Trucking & Marketing	.00	.00	.00	.00
6. Fuel	6.54	9.91	12.04	19.69
7. Irrigation Fuel & Electricity	.00	.00	.00	.00
8. Repairs - Machine	16.47	30.50	30.30	60.62
9. Repairs - Buildings	1.36	2.56	2.51	5.08
10. Utilities & Miscellaneous Expenses	4.94	4.99	9.09	9.93
11. Custom Work & Specialized Labour	.00	.00	.00	.00
12. Operating Interest Paid	5.26	.00	9.67	.00
13. Paid Labour & Benefits	8.40	16.42	15.45	32.64
14. Unpaid Labour	45.83	60.07	84.34	119.41
VARIABLE COSTS	109.25	126.58	201.05	251.60
(C)				
1. Cash/Share Rent & Land Lease	13.84	.00	25.47	.00
2. Taxes, Water Rates, Lic. & Insurance	5.74	9.39	10.56	18.66
3. Equipment & Buildings	67.95	30.18	125.04	60.00
a) Depreciation				
b) Lease Payments	.00	.00	.00	.00
4. Paid Capital Interest	.15	.00	.28	.01
TOTAL CAPITAL COSTS	87.67	39.57	161.34	78.66
(D) CASH COSTS (B+C-B14-C3a)	83.15	75.89	153.02	150.85
(E) TOTAL PRODUCTION COSTS (B+C)	196.93	166.15	362.39	330.26
(F) GROSS MARGIN (A-D)	46.64	53.21	85.82	105.76
RETURN TO UNPAID LABOUR (A-E+B14)	-21.31	23.02	-39.22	45.76
RETURN TO INVESTMENT (A-E+C4)	-66.99	-37.05	-123.27	-73.64
RETURN TO EQUITY (A-E)	-67.14	-37.05	-123.55	-73.65
INVESTMENT				
Land	3,358.89	2,010.97	6,181.05	3,997.20
Buildings	184.38	96.91	339.30	192.63
Machinery	622.19	268.77	1,144.96	534.24
Irr. Machinery	.00	.00	.00	.00
TOTAL	4,165.46	2,376.66	7,665.31	4,724.07
MANAGEMENT				
Yield Per Acre (Tonne)	.54	.50		
Expected Market Price Per Tonne	173.08	147.89		

2022 Crops Enterprise Analysis All Dryland Greenfeed

	Average \$/Acres	Top 1/3	Average \$/Tonne	Top 1/3
(A)				
1. Crop Sales	248.57	304.46	138.22	124.52
2. Crop Insurance Receipts	33.55	54.87	18.66	22.44
3. Miscellaneous Receipts	.00	.00	.00	.00
4. Government Program	.00	.00	.00	.00
5. Additional Revenue from Straw / Aftermath Grazing	.00	.00	.00	.00
GROSS RETURN	282.12	359.33	156.88	146.96
(B)				
1. Seed & Seed Cleaning	30.96	38.13	17.22	15.59
2. Fertilizer	39.97	36.00	22.22	14.72
3. Chemicals	6.90	8.00	3.84	3.27
4. Hail / Crop Insurance & Program Premiums	5.86	6.97	3.26	2.85
5. Trucking & Marketing	.00	.00	.00	.00
6. Fuel	34.22	32.97	19.03	13.49
7. Irrigation Fuel & Electricity	.00	.00	.00	.00
8. Repairs - Machine	21.12	30.53	11.74	12.49
9. Repairs - Buildings	1.89	2.56	1.05	1.05
10. Utilities & Miscellaneous Expenses	7.05	4.96	3.92	2.03
11. Custom Work & Specialized Labour	33.61	42.40	18.69	17.34
12. Operating Interest Paid	.37	.00	.21	.00
13. Paid Labour & Benefits	10.66	16.45	5.93	6.73
14. Unpaid Labour	49.67	60.07	27.62	24.57
VARIABLE COSTS	242.28	279.04	134.73	114.12
(C)				
1. Cash/Share Rent & Land Lease	.46	.00	.25	.00
2. Taxes, Water Rates, Lic. & Insurance	8.81	9.38	4.90	3.84
3. Equipment & Buildings	34.94	30.02	19.43	12.28
a) Depreciation				
b) Lease Payments	.00	.00	.00	.00
4. Paid Capital Interest	6.29	.00	3.50	.00
TOTAL CAPITAL COSTS	50.50	39.41	28.08	16.12
(D) CASH COSTS (B+C-B14-C3a)	208.17	228.35	115.76	93.39
(E) TOTAL PRODUCTION COSTS (B+C)	292.78	318.44	162.81	130.24
(F) GROSS MARGIN (A-D)	73.95	130.99	41.12	53.57
RETURN TO UNPAID LABOUR (A-E+B14)	39.01	100.96	21.69	41.29
RETURN TO INVESTMENT (A-E+C4)	-4.37	40.89	-2.43	16.72
RETURN TO EQUITY (A-E)	-10.66	40.89	-5.93	16.72
INVESTMENT				
Land	2,530.53	2,000.00	1,407.17	817.95
Buildings	83.97	96.83	46.69	39.60
Machinery	312.02	267.37	173.51	109.35
Irr. Machinery	.00	.00	.00	.00
TOTAL	2,926.52	2,364.20	1,627.37	966.90
MANAGEMENT				
Yield Per Acre (Tonne)	1.80	2.45		
Expected Market Price Per Tonne	138.22	124.52		

2022 Crops Enterprise Analysis

All Dryland Grain Silage

	Average \$/Acres	Top 1/3	Average \$/Tonne	Top 1/3
(A)				
1. Crop Sales	524.28	889.25	73.99	77.58
2. Crop Insurance Receipts	10.70	.00	1.51	.00
3. Miscellaneous Receipts	.62	1.88	.09	.16
4. Government Program	.00	.00	.00	.00
5. Additional Revenue from Straw / Aftermath Grazing	.00	.00	.00	.00
GROSS RETURN	535.59	891.14	75.59	77.74
(B)				
1. Seed & Seed Cleaning	19.82	20.30	2.80	1.77
2. Fertilizer	79.19	102.09	11.18	8.91
3. Chemicals	12.30	21.49	1.74	1.88
4. Hail / Crop Insurance & Program Premiums	7.97	18.00	1.12	1.57
5. Trucking & Marketing	.00	.00	.00	.00
6. Fuel	30.49	50.24	4.30	4.38
7. Irrigation Fuel & Electricity	.00	.00	.00	.00
8. Repairs - Machine	26.11	27.89	3.68	2.43
9. Repairs - Buildings	1.39	1.69	.20	.15
10. Utilities & Miscellaneous Expenses	6.13	3.45	.87	.30
11. Custom Work & Specialized Labour	54.57	.00	7.70	.00
12. Operating Interest Paid	2.71	4.32	.38	.38
13. Paid Labour & Benefits	8.97	1.30	1.27	.11
14. Unpaid Labour	30.26	34.10	4.27	2.98
VARIABLE COSTS	279.90	284.88	39.50	24.85
(C)				
1. Cash/Share Rent & Land Lease	14.04	42.99	1.98	3.75
2. Taxes, Water Rates, Lic. & Insurance	11.95	15.04	1.69	1.31
3. Equipment & Buildings	30.71	21.40	4.33	1.87
a) Depreciation				
b) Lease Payments	.00	.00	.00	.00
4. Paid Capital Interest	.33	.69	.05	.06
TOTAL CAPITAL COSTS	57.02	80.12	8.05	6.99
(D) CASH COSTS (B+C-B14-C3a)	275.95	309.49	38.95	27.00
(E) TOTAL PRODUCTION COSTS (B+C)	336.92	364.99	47.55	31.84
(F) GROSS MARGIN (A-D)	259.64	581.65	36.64	50.74
RETURN TO UNPAID LABOUR (A-E+B14)	228.93	560.25	32.31	48.88
RETURN TO INVESTMENT (A-E+C4)	199.00	526.84	28.09	45.96
RETURN TO EQUITY (A-E)	198.67	526.15	28.04	45.90
INVESTMENT				
Land	3,233.19	2,891.79	456.32	252.28
Buildings	69.81	40.68	9.85	3.55
Machinery	271.37	188.84	38.30	16.47
Irr. Machinery	.00	.00	.00	.00
TOTAL	3,574.37	3,121.31	504.47	272.30
MANAGEMENT				
Yield Per Acre (Tonne)	7.09	11.46		
Expected Market Price Per Tonne	73.99	77.58		

Definitions and Explanations

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 Alberta Agriculture and Irrigation
 1. **Trucking and marketing** – allocated to specific cropping acres by producer
 2. **Fuel** – Summer fallow – allocation of 0.3:1 compared to crop acres; Sugar beets –allocation of 2.96:1 compared to other irrigated crop acres
 3. **Irrigation fuel** – allocation based on total pumping hours for each crop
 4. **Machinery repairs** – allocated equally to all acres except summer fallow (0.3:1) and special crops (as specified by producer)
 5. **Building repairs** – allocated to all acres equally except for special crops buildings
 6. **Operating interest** – interest paid on operating loans allocated equally
 7. **Paid labour** – based on allocations between crops as specified by producer
 8. **Unpaid and operator labour** – operator -\$10/hour, other unpaid labour - \$7.50/hour
 9. **Land taxes** – allocated equally to all owned cropped acres
 10. **Water rates** – allocated equally to all owned irrigated acres
 11. **Equipment depreciation** – imputed at 8.5% for power equipment, 11% for non-power, based on current market value
 12. **Insurance and licenses** – allocated to all cropped acres equally
 13. **Building depreciation** – imputed at 5% on the current market value
 14. **Paid capital interest** – allocated to all owned cropped acres equally except summer fallow (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 summer fallow (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