
2022 Cropping Alternatives

Crop Budget Planning



**Agriculture, Forestry and Rural Economic Development
Government of Alberta**

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2022 Cropping Alternatives | AgriProfit\$ cost of production and business analysis program



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Cropping Alternatives Methodology

Disclaimer:

The following regional forecasts are based on the most current cost of production information from the AgriProfit\$ Business Analysis and Research Program and estimates of expected revenues and costs from various sources. Producers should use their own costs and revenue projections to make cropping decisions for farm operations. There is a risk of over or under-estimating costs and returns based on regional benchmarks and forecasts. Producers are advised not to base cropping decisions solely on information provided in the following budgets. The Alberta Agriculture, Forestry and Rural Economic Development crop budgeting software program [CropChoice\\$](#) and the [Crop Budget Calculator](#) are available to customize your own crop budgets. You can download both CropChoice\$ software and the Crop Budget Calculator free of charge.

Prices:

Expected market prices are estimates only based on forecasts for the 2022 crop year. Prices in these budgets are estimated by Agriculture, Forestry and Rural Economic Development specialists using several price outlook sources. Estimated prices are adjusted to reflect location differences and grade factors. Using one's own price estimates from knowledge of area markets and market outlook information is recommended.

Yields:

There is a wide range of yields within each soil zone region. Yield estimates by crop represent average long-term trend yields developed by Agriculture Financial Services Corporation adjusted upwards by 20 per cent for dryland soil zones and 15 per cent for irrigated zones. For red lentils, where long-term yields are not available, crop specialists' recommendations have been used.

Seed Costs:

Seed costs are based on data collected by the Alberta Farm Input Prices Survey and seed suppliers as well as a seed cost multiplier for a blend of certified and common seed that is cleaned and treated. Seeding rates for each soil zone are based on 1,000 kernel weight for common varieties, 90-95 per cent germination, three to five per cent emergence mortality, and 9" spacing. Seeding rates for forages are based on 1,000 kernel weight for common varieties, pure live seed and a 50-50 split of broadcasted and row seeded plantings. (see the following Seeding Rate Table.)

Fertilizer Costs:

Prices are based on a combination of the fall 2021 prices, "pre-purchase" prices and fertilizer cost indications for spring 2022. Nitrogen, Phosphorous, Potassium, and Sulphur blends are based on estimated crop requirements for nutrient deficient, stubble-seeded crops in each soil zone.

Nitrogen	\$1.33/lb actual N	(\$1350/tonne for 46-0-0)
Phosphorous	\$0.89/lb actual P	(\$1340/tonne for 11-52-0)
Potassium	\$0.87/lb actual K	(\$1150/tonne for 0-0-60)
Sulphur	\$0.51/lb actual S	(\$870/tonne for 20.5-0-0-24)

Soil testing is recommended to optimize the fertilizer budget to field production capacity and crop choice.

The Alberta Farm Fertilizer Information and Recommendation Manager (AFFIRM) is an Alberta Agriculture, Forestry and Rural Economic Development software tool that can help producers optimize fertilizer requirements for crop production. Variable rate technology is also an option being used by producers to maximize production to fertilizer and input expenses. In a mature commodity market, managing costs could mean the difference between farm profitability and farm losses.

Chemical:

The 2022 chemical costs on stubble-seeded crops include a non-selective, pre-seed burn-off, and one in-crop herbicide application for broadleaf weeds, grassy weeds or both. Feed barley acreage sprayed for broadleaf weed control and a portion sprayed for wild oat control. Fungicides, insecticides and/or pre-harvest/desiccation applications (F/I/PH/D) are indicated by an asterisk (*). (see the following Chemical Application Table.)

Hail/Crop Insurance:

Insurance is based on information from Agriculture Financial Services Corporation (AFSC), averaged for select areas in respective soil zones.

Trucking & Marketing:

For grains and oilseeds, trucking and marketing costs are averages for short-haul and long-haul rates from cost suppliers. For hay, trucking and marketing costs are estimates from suppliers, assuming bales shipped are 1500 lb and distance hauled is between 50 and 100 kms. For silage, trucking and marketing costs are last year's estimates indexed for the 2022 year.

Fuel, Oil & Lube, Machinery Repairs, Building Repairs, Pumping Costs (Irrigation only), Labour (Paid and Unpaid), Utilities & Miscellaneous, Operating Interest, and Storage and/or Levies:

These costs are based on information collected by the AgriProfit\$ program, as well as AIMS the Alberta Farm Input Prices Survey and irrigation specialists. Many of these costs are influenced significantly by differences in regional farming practices.

Operating Interest:

Five (5%) per cent per annum for inputs financed (seed, fertilizer and chemical).

Contribution Margin:

Contribution margin represents the amount a particular crop contributes to fixed costs, and return to management and equity. Use the contribution margin to compare crop choices.

Capital Costs by Enterprise:

Fixed costs generally do not vary greatly from crop to crop, but can vary between enterprises and soil zone regions. Average fixed cost profiles by enterprise are included for your information. The capital costs are indexed to reflect costs for the 2021 year.

Summerfallow:

The summerfallow column included in the Brown soil zone budget is only provided to reference the expected costs incurred in a non-crop year. Fallow-seeded crops are not included in this analysis because the summerfallow practice has significantly declined. Producers wanting to evaluate fallow-seeded crops can use CropChoice\$ and the Crop Budget Calculator.

Contribution Margin Calculation: Value of Production - Total Direct Expenses

Total Cost per Unit Calculation:

(Total Direct Expenses + Adjusted Capital Costs) divided by Expected Yield per Acre

Break-Even Yield Calculation:

(Total Direct Expenses + Adjusted Capital Costs) divided by Expected Market Price


Table 1. Seeding Rate by Alberta Soil Zones

	Black			Brown			Dark Brown			Grey-Wooded			Peace Region (Grey-Wooded)			Irrigation		
	lbs/ac	bu/ac	\$/ac	lbs/ac	bu/ac	\$/ac	lbs/ac	bu/ac	\$/ac	lbs/ac	bu/ac	\$/ac	lbs/ac	bu/ac	\$/ac	lbs/ac	bu/ac	\$/ac
spring wheat		2.25	48.71		2	43.30		2	43.30		2.25	48.71		2	43.30		2.5	54.13
cps wheat		2.25	45.34		2	40.30		2	40.30		2.25	45.34		2	40.30		2.5	50.38
durum wheat					2	56.00		2	56.00								2.25	63.00
soft white wheat																	2.25	47.25
winter wheat								2	40.00									
malt barley		2.25	37.13		2	33.00		2	33.00		2.25	37.13		2	33.00		2.5	41.25
feed barley		2.25	37.13		2	33.00		2	33.00		2.25	37.13		2	33.00		2.5	41.25
milling oats		3	62.40		3	62.40		3	62.40		3	62.40		3	62.40			
argentine canola	6		77.00	5		68.60	6		77.00	5		68.60	5		70.00	5		77.00
polish canola													4		52.80			
field pea		3.25	91.00		3	84.00		2.95	82.60		3	84.00		2.75	77.00			
yellow mustard				10		51.00	11		53.55									
chickpeas				120		96.00												
green lentils				90		64.80	90		64.80									
red lentils				60		36.00	60		36.00									
flax							65		91.00									
dry beans																60		90.00
cereal silage		2.75	22.69					2.25	18.56		2.25	18.56		2	16.50		2.5	20.63
mixed hay	11		3.94	10		3.73	10		3.73	11		3.94	11		3.94			
alfalfa hay	10		9.00							10		9.80	10		9.80	14		13.72

Table 2. Chemical Application by Alberta Soil Zones (\$/acre)

	Black			Brown			Dark Brown			Grey-Wooded			Peace Region (Grey-Wooded)			Irrigation		
	PreSeed	In Crop	F//PH/D	PreSeed	In Crop	F//PH/D	PreSeed	In Crop	F//PH/D	PreSeed	In Crop	F//PH/D	PreSeed	In Crop	F//PH/D	PreSeed	In Crop	F//PH/D
spring wheat	11.62	31.32	7.74	11.04	29.76	6.44	11.04	29.76	6.44	11.62	31.32	4.84	11.62	31.32	4.84	11.62	31.32	9.68
cps wheat	11.62	31.32		11.04	29.76		11.04	29.76		11.62	31.32		11.62	31.32		11.62	31.32	
durum wheat				11.04	29.76	6.44	11.04	29.76	6.44							11.62	31.32	9.68
soft white wheat																11.62	31.32	9.68
winter wheat							11.04	13.64										
malt barley	11.62	31.32		11.04	29.76		11.04	29.76		11.62	31.32		11.62	31.32		11.62	31.32	9.68
feed barley	11.62	18.79		11.04	17.85		11.04	17.85		11.62	18.79		11.62	18.79		11.62	18.79	11.62
milling oats	11.62	9.60		11.04	9.12		11.62	9.60		11.62	9.60		11.62	9.60				
argentine canola	11.62	13.13		11.04	12.48		11.62	13.13		11.62	13.13		11.62	13.13		11.62	13.13	22.06
polish canola													11.62	11.11				
field pea	11.62	12.12	23.74	11.62	12.12		11.62	12.12	23.74	11.62	12.12	23.74	11.62	12.12	23.74			
yellow mustard				11.62	9.09		11.62	9.09										
chickpeas				17.93	14.14	19.99												
green lentils				19.19	17.93	23.84	19.19	17.75	23.84									
red lentils				19.00	17.75	23.60	19.00	17.93	23.60									
flax							11.62	15.86										
dry beans																11.62	16.16	0.00
cereal silage	11.62	9.60					11.62	9.60		11.62	9.60		11.62	9.60		11.62	9.60	
mixed hay	2.32			2.32			2.32			2.32			2.32					
alfalfa hay	2.90									2.90			2.90			3.49		

Table 3. 2022 Estimated Production Costs and Returns (\$/acre) Black Soils


Stubble Seeded Crops										
	Spring	CPS	Feed	Malt	Milling	Argentine	Field	Mixed	Alfalfa	Cereal
	Wheat	Wheat	Barley	Barley	Oats	HT Canola	Peas	Hay	Hay	Silage
	2 CWRS 11.5%	1 CPSR	1 CW	Select CW 2R	2 CW	1 CAN	2 CAN			
Expected Yield per Acre	65.00 bu	72.00 bu	85.00 bu	83.00 bu	98.00 bu	46.00 bu	56.00 bu	2.25 t	2.50 t	7.50 t
Expected Market Price	9.40 /bu	9.00 /bu	7.25 /bu	8.70 /bu	6.70 /bu	16.40 /bu	11.90 /bu	120.00 /t	150.00 /t	88.00 /t
Crop Sales (\$/acre)	611.00	648.00	616.25	722.10	656.60	754.40	666.40	270.00	375.00	660.00
Direct Expenses:										
Seed, Cleaning & Treatment	48.71	45.34	37.13	37.13	62.40	77.00	91.00	3.94	9.00	22.69
Fertilizer (NPKS blend)	142.50 80-30-10-0	142.50 80-30-10-0	142.50 80-30-10-0	143.00 70-30-20-10	120.50 70-30-0-0	193.00 100-40-15-20	47.00 5-30-15-0	33.50 15-15-0-0	29.50 5-25-0-0	109.00 65-25-0-0
Chemical	50.68	50.68	30.41	50.68	21.22	42.40	47.48	2.32	2.90	21.22
Hail/Crop Insurance	13.03	17.13	12.89	15.26	13.38	15.33	16.77	NA	NA	NA
Trucking & Marketing	21.45	23.76	22.95	22.41	18.62	15.18	18.48	51.36	56.30	22.50
Fuel, Oil & Lube	38.47	35.47	33.34	38.04	38.47	37.61	49.58	13.68	8.55	53.85
Machinery Repairs	19.53	19.25	15.28	18.96	15.28	17.27	20.10	16.98	7.93	12.45
Building Repairs	2.79	6.98	2.79	7.68	3.84	3.14	6.29	6.98	4.19	4.89
Custom Work	2.14	2.14	2.40	3.21	4.81	2.67	5.34	2.14	4.81	5.34
Labour (Paid and Unpaid)	19.94	22.16	16.06	24.93	21.60	20.49	23.82	27.70	12.19	35.45
Utilities & Miscellaneous	16.69	16.69	16.69	16.69	16.69	20.32	20.32	10.13	10.13	11.59
Operating Interest	12.09	11.93	10.50	11.54	10.21	15.62	9.27	1.99	2.07	7.65
Total Direct Expense	388.03	394.03	342.95	389.53	347.02	460.04	355.45	170.72	147.56	306.64
Contribution Margin	222.97	253.97	273.30	332.57	309.58	294.36	310.95	99.28	227.44	353.36
Total Cost per Unit	8.84	8.07	6.23	6.94	5.45	14.06	9.68	130.47	108.16	57.26
Break-Even Yield	62.00 bu	65.00 bu	74.00 bu	67.00 bu	80.00 bu	40.00 bu	46.00 bu	2.45 t	1.80 t	4.88 t

Capital Costs by Enterprise	Crops	Forages
Crop Share/Cash Rent	115.33	58.77
Licenses and Insurance	16.87	8.43
Depreciation	48.66	51.70
Paid Capital Interest	7.74	5.16
Total Capital Costs	188.60	124.07
Adjusted Capital Costs	186.71	122.83

Questions?
 Call 780-422-4056
 Production Crops Economist, Economics Section
 Agriculture, Forestry and Rural Economic Development

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Table 4. 2022 Estimated Production Costs and Returns (\$/acre) Brown Soils

Stubble Seeded Crops													
	Spring Wheat	CPS Wheat	Durum Wheat	Feed Barley	Malt Barley	Milling Oats	Argentine HT Canola	Field Peas	Red Lentil	Kabuli Chickpea	Yellow Mustard	Mixed Hay	Summer Fallow
	1 CWRS 13.5%	1 CPSR	1 CWAD 13%	1 CW	Select CW 2R	2 CW	1 CAN	2 CAN	2 CAN	2 CW 8mm	1 CAN		
Expected Yield per Acre	40.00 bu	42.00 bu	42.00 bu	52.00 bu	53.00 bu	58.00 bu	30.00 bu	45.00 bu	1525.00 lbs	1463.00 lbs	661.00 lbs	1.50 t	0.00
Expected Market Price	9.75 /bu	9.35 /bu	11.00 /bu	7.40 /bu	8.85 /bu	6.70 /bu	16.40 /bu	11.90 /bu	0.35 /lb	0.30 /lb	0.72 /lb	120.00 /t	0.00
Crop Sales (\$/acre)	390.00	392.70	462.00	384.80	469.05	388.60	492.00	535.50	533.75	438.90	475.92	180.00	0.00
Direct Expenses:													
Seed, Cleaning & Treatment	43.30	40.30	56.00	33.00	33.00	62.40	68.60	84.00	64.80	96.00	51.00	3.73	0.00
Fertilizer (NPKS blend)	89.00 50-20-5-0	89.00 50-20-5-0	89.00 50-20-5-0	107.00 60-25-5-0	107.50 50-30-10-10	84.50 50-20-0-0	123.00 65-25-10-10	33.50 5-20-10-0	25.00 5-20-0-0	34.00 5-30-0-0	76.50 40-20-0-10	22.50 10-10-0-0	0.00
Chemical	49.71	49.71	49.71	30.41	49.71	21.22	40.19	47.48	90.35	52.06	20.71	2.32	11.50
Hail/Crop Insurance	11.33	17.16	13.52	12.53	14.83	10.53	17.69	15.71	20.44	16.80	13.62	NA	NA
Trucking & Marketing	13.20	13.86	13.86	14.04	14.31	11.02	8.40	14.85	8.54	8.19	3.70	34.14	0.00
Fuel, Oil & Lube	35.28	33.87	34.21	29.06	34.71	35.88	38.98	34.90	23.08	25.22	25.64	11.54	12.39
Machinery Repairs	16.70	12.74	13.59	9.62	9.06	11.32	9.06	12.17	9.06	10.19	9.62	11.32	10.19
Building Repairs	2.10	2.79	1.75	1.40	1.40	3.49	2.10	3.14	3.84	2.79	1.40	4.19	1.40
Custom Work	3.21	1.92	3.74	4.27	2.67	2.67	5.34	2.14	2.14	4.27	3.21	2.14	0.00
Labour (Paid and Unpaid)	19.94	19.39	19.39	17.73	18.83	15.51	20.49	14.68	14.40	16.62	14.96	17.73	9.97
Utilities & Miscellaneous	16.69	16.69	14.46	14.46	14.46	10.13	14.46	14.46	10.83	12.36	11.59	8.73	4.19
Operating Interest	9.10	8.95	9.74	8.52	9.51	8.41	11.59	8.25	9.01	9.10	7.41	1.43	0.58
Total Direct Expense	309.56	306.39	318.95	282.04	309.99	277.08	359.90	285.27	281.48	287.61	239.36	119.77	50.22
Contribution Margin	80.44	86.31	143.05	102.76	159.06	111.52	132.10	250.23	252.27	151.29	236.56	60.23	(50.22)


Total Cost per Unit	10.47	9.90	10.19	7.52	7.91	6.66	15.64	8.77	0.26	0.27	0.53	142.84	N/A
Break-Even Yield	43.00 ^f bu	45.00 ^f bu	39.00 ^f bu	53.00 ^f bu	48.00 ^f bu	58.00 ^f bu	29.00 ^f bu	34.00 ^f bu	1117.00 ^f lbs	1323.00 ^f lbs	485.00 ^f lbs	1.79 t	N/A

Capital Costs by Enterprise	Crops	Forages
Crop Share/Cash Rent	59.51	46.28
Licenses and Insurance	8.43	12.27
Depreciation	29.20	33.46
Paid Capital Interest	13.19	3.44
Total Capital Costs	110.33	95.45
Adjusted Capital Costs	109.22	94.49

Questions?
 Call 780-422-4056
 Production Crops Economist, Economics Section
 Agriculture, Forestry and Rural Economic Development

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Table 5. 2022 Estimated Production Costs and Returns (\$/acre) Dark Brown Soils


Stubble Seeded Crops														
	Spring Wheat	CPS Wheat	Durum Wheat	Winter Wheat	Feed Barley	Malt Barley	Milling Oats	Argentine HT Canola	Field Peas	Flax	Yellow Mustard	Red Lentil	Mixed Hay	Cereal Silage
	1 CWRS 13.5%	1 CPSR	1 CWAD 13%	Select CWRW	1 CW	Select CW 2R	2 CW	1 CAN	2 CAN	1 CW	1 CAN			
Expected Yield per Acre	44.00 bu	49.00 bu	41.00 bu	46.00 bu	63.00 bu	63.00 bu	75.00 bu	35.00 bu	48.00 bu	21.00 bu	706.00 lbs	1500.00 lbs	1.75 t	5.73 t
Expected Market Price	9.35 /bu	8.90 /bu	10.90 /bu	8.60 /bu	7.20 /bu	8.75 /bu	6.65 /bu	16.40 /bu	11.90 /bu	19.05 /bu	0.72 /lb	0.34 /lb	120.00 /t	88.00 /t
Crop Sales (\$/acre)	411.40	436.10	446.90	395.60	453.60	551.25	498.75	574.00	571.20	400.05	508.32	510.00	210.00	504.24
Direct Expenses:														
Seed, Cleaning & Treatment	43.30	40.30	56.00	40.00	33.00	33.00	62.40	77.00	82.60	91.00	53.55	64.80	3.73	18.56
Fertilizer (NPKS blend)	107.00 60-25-5-0	107.00 60-25-5-0	107.00 60-25-5-0	107.00 60-25-5-0	120.00 70-25-5-0	125.50 60-30-15-10	91.50 55-20-0-0	143.50 75-30-10-15	33.50 5-20-10-0	84.50 50-20-0-0	94.50 50-25-0-10	29.50 5-25-0-0	27.00 10-15-0-0	98.00 60-20-0-0
Chemical	49.71	49.71	49.71	25.97	30.41	49.71	21.22	40.19	47.48	27.47	20.71	85.35 *	2.32	21.22
Hail/Crop Insurance	12.41	16.38	13.53	10.36	13.00	15.39	11.99	17.76	15.71	16.39	12.34	20.67	NA	NA
Trucking & Marketing	14.52	16.17	13.53	15.18	17.01	17.01	14.25	9.80	15.84	6.51	3.95	8.40	39.87	17.19
Fuel, Oil & Lube	34.78	39.70	40.90	43.25	34.19	37.61	36.93	44.68	44.45	34.19	27.35	26.50	18.46	22.23
Machinery Repairs	13.87	14.15	12.45	13.59	13.59	14.15	12.45	16.98	15.28	12.45	12.45	9.06	10.76	7.93
Building Repairs	1.40	2.10	1.40	1.40	2.79	3.49	1.40	2.10	2.44	2.10	2.10	3.84	3.49	1.75
Custom Work	2.14	3.21	3.21	3.21	6.41	6.41	2.14	5.34	3.21	8.55	4.81	2.14	10.15	42.74
Labour (Paid and Unpaid)	13.85	14.40	12.74	13.85	13.57	14.40	14.40	15.51	13.57	16.06	14.96	14.40	11.08	11.08
Utilities & Miscellaneous	16.69	16.69	14.46	14.46	14.46	14.46	10.13	14.46	14.46	14.46	14.46	10.83	10.13	11.59
Operating Interest	10.00	9.85	10.64	8.65	9.17	10.41	8.76	13.03	8.18	10.15	8.44	8.98	1.65	6.89
Total Direct Expense	319.66	329.66	335.56	296.90	307.60	341.55	287.56	400.35	296.72	323.83	269.61	284.46	138.65	259.17
Contribution Margin	91.74	106.44	111.34	98.70	146.00	209.70	211.19	173.65	274.48	76.22	238.71	225.54	71.35	245.07
Total Cost per Unit	9.52	8.75	10.60	8.61	6.46	6.99	5.16	14.27	8.25	20.14	0.52	0.24	122.51	58.45
Break-Even Yield	45.00 bu	49.00 bu	40.00 bu	47.00 bu	57.00 bu	51.00 bu	59.00 bu	31.00 bu	34.00 bu	23.00 bu	513.00 lbs	1059.43 lbs	1.79 t	3.81 t

Capital Costs by Enterprise	Crops	Forages
Crop Share/Cash Rent	55.50	34.50
Licenses and Insurance	7.28	7.67
Depreciation	30.41	18.86
Paid Capital Interest	6.88	15.48
Total Capital Costs	100.08	76.51
Adjusted Capital Costs	99.08	75.74

Questions?
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 Production Crops Economist, Economics Section
 Agriculture, Forestry and Rural Economic Development

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Table 6. 2022 Estimated Production Costs and Returns (\$/acre) Grey-Wooded Soils


Stubble Seeded Crops										
	Spring	CPS	Feed	Malt	Milling	Argentine	Field	Alfalfa	Mixed	Cereal
	Wheat	Wheat	Barley	Barley	Oats	HT Canola	Peas	Hay	Hay	Silage
	2 CWRS 11.5%	1 CPSR	1 CW	Select CW 2R	2 CW	1 CAN	2 CAN			
Expected Yield per Acre	58.00 bu	70.00 bu	78.00 bu	78.00 bu	94.00 bu	44.00 bu	50.00 bu	2.25 t	2.50 t	7.08 t
Expected Market Price	9.30 /bu	8.85 /bu	7.20 /bu	8.60 /bu	6.60 /bu	16.20 /bu	11.75 /bu	150.00 /t	120.00 /t	88.00 /t
Crop Sales (\$/acre)	539.40	619.50	561.60	670.80	620.40	712.80	587.50	337.50	300.00	623.04
Direct Expenses:										
Seed, Cleaning & Treatment	48.71	45.34	37.13	37.13	62.40	68.60	84.00	9.80	3.94	18.56
Fertilizer (NPKS blend)	138.00 80-25-10-0	138.00 80-25-10-0	142.50 80-30-10-0	140.00 70-25-25-5	122.50 75-25-0-0	201.50 100-40-25-20	42.50 5-25-15-0	29.50 5-25-0-0	40.00 20-15-0-0	116.00 70-25-0-0
Chemical	47.78	47.78	30.41	47.78	21.22	35.78	47.48	2.90	2.32	21.22
Hail/Crop Insurance	17.74	21.45	16.98	20.11	14.79	16.78	15.63	NA	NA	NA
Trucking & Marketing	19.14	23.10	21.06	21.06	17.86	12.32	16.50	51.36	56.30	21.24
Fuel, Oil & Lube	40.39	36.98	31.63	37.95	35.90	47.67	48.12	17.10	20.52	35.90
Machinery Repairs	19.25	16.70	15.85	19.25	14.72	25.47	22.93	8.49	13.02	17.27
Building Repairs	1.40	3.49	3.49	2.79	4.89	2.79	4.89	2.10	1.40	1.40
Custom Work	5.34	5.61	5.88	5.88	7.48	5.88	5.34	18.16	5.88	37.40
Labour (Paid and Unpaid)	23.82	22.71	23.26	21.88	23.26	26.59	25.20	19.39	20.49	23.26
Utilities & Miscellaneous	16.69	16.69	16.69	16.69	16.69	20.32	20.32	10.13	9.43	11.59
Operating Interest	11.72	11.56	10.50	11.25	10.31	15.29	8.70	2.11	2.31	7.79
Total Direct Expense	389.98	389.41	355.38	381.76	352.02	479.00	341.62	171.04	175.61	311.63
Contribution Margin	149.42	230.09	206.22	289.04	268.38	233.80	245.88	166.46	124.39	311.41
Total Cost per Unit	9.48	7.85	6.61	6.95	5.45	14.52	10.03	108.39	99.38	54.30
Break-Even Yield	60.00 bu	63.00 bu	72.00 bu	63.00 bu	78.00 bu	40.00 bu	43.00 bu	1.63 t	2.07 t	4.37 t

Capital Costs by Enterprise	Crops	Forages
Crop Share/Cash Rent	65.50	30.50
Licenses and Insurance	16.10	6.90
Depreciation	55.96	31.02
Paid Capital Interest	24.08	5.16
Total Capital Costs	161.65	73.58
Adjusted Capital Costs	160.03	72.85

Questions?
 Call 780-422-4056
 Production Crops Economist, Economics Section
 Agriculture, Forestry and Rural Economic Development

Prepared Feb 25, 2022

Table 7. 2022 Estimated Production Costs and Returns (\$/acre) Grey-Wooded (Peace Region)

Stubble Seeded Crops										
	Spring Wheat	CPS Wheat	Feed Barley	Malt Barley	Milling Oats	Argentine HT Canola	Field Peas	Alfalfa Hay	Mixed Hay	Cereal Silage
	2 CWRS 11.5%	1 CPSR	1 CW	Select CW 2R	2 CW	1 CAN	2 CAN			
Expected Yield per Acre	58.00 bu	70.00 bu	78.00 bu	78.00 bu	94.00 bu	44.00 bu	50.00 bu	2.25 t	2.50 t	7.08 t
Expected Market Price	9.30 /bu	8.85 /bu	7.20 /bu	8.60 /bu	6.60 /bu	16.20 /bu	11.75 /bu	150.00 /t	120.00 /t	88.00 /t
Crop Sales (\$/acre)	539.40	619.50	561.60	670.80	620.40	712.80	587.50	337.50	300.00	623.04
Direct Expenses:										
Seed, Cleaning & Treatment	48.71	45.34	37.13	37.13	62.40	68.60	84.00	9.80	3.94	18.56
Fertilizer (NPKS blend)	138.00 80-25-10-0	138.00 80-25-10-0	142.50 80-30-10-0	140.00 70-25-25-5	122.50 75-25-0-0	201.50 100-40-25-20	42.50 5-25-15-0	29.50 5-25-0-0	40.00 20-15-0-0	116.00 70-25-0-0
Chemical	47.78	47.78	30.41	47.78	21.22	35.78	47.48	2.90	2.32	21.22
Hail/Crop Insurance	17.74	21.45	16.98	20.11	14.79	16.78	15.63	NA	NA	NA
Trucking & Marketing	19.14	23.10	21.06	21.06	17.86	12.32	16.50	51.36	56.30	21.24
Fuel, Oil & Lube	40.39	36.98	31.63	37.95	35.90	47.67	48.12	17.10	20.52	35.90
Machinery Repairs	19.25	16.70	15.85	19.25	14.72	25.47	22.93	8.49	13.02	17.27
Building Repairs	1.40	3.49	3.49	2.79	4.89	2.79	4.89	2.10	1.40	1.40
Custom Work	5.34	5.61	5.88	5.88	7.48	5.88	5.34	18.16	5.88	37.40
Labour (Paid and Unpaid)	23.82	22.71	23.26	21.88	23.26	26.59	25.20	19.39	20.49	23.26
Utilities & Miscellaneous	16.69	16.69	16.69	16.69	16.69	20.32	20.32	10.13	9.43	11.59
Operating Interest	11.72	11.56	10.50	11.25	10.31	15.29	8.70	2.11	2.31	7.79
Total Direct Expense	389.98	389.41	355.38	381.76	352.02	479.00	341.62	171.04	175.61	311.63
Contribution Margin	149.42	230.09	206.22	289.04	268.38	233.80	245.88	166.46	124.39	311.41


Total Cost per Unit	9.48	7.85	6.61	6.95	5.45	14.52	10.03	108.39	99.38	54.30
Break-Even Yield	60.00 bu	63.00 bu	72.00 bu	63.00 bu	78.00 bu	40.00 bu	43.00 bu	1.63 t	2.07 t	4.37 t

Capital Costs by Enterprise	Crops	Forages
Crop Share/Cash Rent	65.50	30.50
Licenses and Insurance	16.10	6.90
Depreciation	55.96	31.02
Paid Capital Interest	24.08	5.16
Total Capital Costs	161.65	73.58
Adjusted Capital Costs	160.03	72.85

Questions?
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Table 8. 2022 Estimated Production Costs and Returns (\$/acre) Irrigated Soils

Stubble Seeded Crops										
	Spring Wheat	CPS Wheat	Durum Wheat	Soft Wheat	Feed Barley	Malt Barley	Argentine HT Canola	Dry Beans	Alfalfa Hay	Cereal Silage
	1 CWRS 13.5%	1 CPSR	1 CWAD 13%	1 CWSWS	1 CW	Select CW 2R	1 CAN	1 CAN		
Expected Yield per Acre	96.00 bu	105.00 bu	103.00 bu	111.00 bu	125.00 bu	125.00 bu	58.00 bu	2459.00 lbs	4.00 t	11.00 t
Expected Market Price	9.75 /bu	9.35 /bu	11.00 /bu	6.70 /bu	7.40 /bu	8.85 /bu	16.40 /bu	0.40 /lb	150.00 /t	88.00 /t
Crop Sales (\$/acre)	936.00	981.75	1133.00	743.70	925.00	1106.25	951.20	983.60	600.00	968.00
Direct Expenses										
Seed, Cleaning & Treatment	54.13	50.38	63.00	47.25	41.25	41.25	77.00	90.00	13.72	20.63
Fertilizer (NPKS blend)	173.50 100-40-5-0	173.50 100-40-5-0	173.50 100-40-5-0	187.00 110-40-5-0	173.50 100-40-5-0	151.50 90-30-5-0	206.50 110-50-5-20	157.00 80-50-0-10	43.00 5-40-0-0	169.50 100-40-0-0
Chemical	52.62	52.62	52.62	52.62	42.03	52.62	46.81	44.45	3.49	21.22
Hail/Crop Insurance	17.30	22.28	26.48	17.12	15.09	17.09	17.23	31.20	NA	NA
Trucking & Marketing	31.68	34.65	33.99	36.63	33.75	33.75	16.24	24.55	90.24	33.00
Fuel, Oil & Lube	47.25	51.12	54.97	42.25	42.65	63.98	62.27	67.60	65.19	50.70
Machinery Repairs	32.27	29.72	32.83	30.00	31.42	35.57	32.83	48.12	38.49	20.95
Building Repairs	2.79	2.79	2.79	2.79	2.79	2.79	2.79	5.94	1.40	1.40
Irrigation: Pumping Costs	31.46	32.15	31.80	32.15	26.16	26.16	27.08	25.84	42.26	27.56
Custom Work	8.55	8.55	9.62	9.62	12.82	13.36	7.48	21.90	8.55	35.26
Labour (Paid and Unpaid)	33.23	34.34	34.62	34.34	37.67	37.67	34.34	42.65	37.67	38.77
Utilities & Miscellaneous	21.72	21.72	21.72	21.72	21.72	21.72	21.72	28.92	46.38	28.92
Operating Interest	14.01	13.82	14.46	14.34	12.84	12.27	16.52	14.57	3.01	10.57
Storage and/or Levies	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Direct Expense	520.50	527.64	552.40	527.84	493.69	509.73	568.81	602.73	393.38	458.47
Contribution Margin	415.50	454.11	580.60	215.86	431.31	596.52	382.39	380.87	206.62	509.53

Total Cost per Unit	9.17	8.45	8.86	8.00	6.83	6.96	16.01	0.40	180.22	71.45
Break-Even Yield	91.00 bu	95.00 bu	83.00 bu	133.00 bu	116.00 bu	99.00 bu	57.00 bu	2475.00 lbs	4.81 t	8.93 t

Capital Costs by Enterprise	Crops	Forages	Specialty
Crop Share/Cash Rent	176.33	168.66	186.02
Licenses and Insurance	61.33	38.33	64.70
Depreciation	105.23	109.49	112.53
Paid Capital Interest	20.64	14.34	28.04
Total Capital Costs	363.54	330.82	391.30
Adjusted Capital Costs	359.90	327.51	387.38

Questions?
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