

Farm Summary

Farm Characteristics LL 04 Farm Description A mixed cow-calf and cash crop operation with 240 cows, utilizing mostly homegrown feed. 197 days on hay (20 lb) and silage (49 lb) Winter Feeding Ration (lbs/cow/day as fed) Retained Ownership/Replacement Ration Replacements: 216 days on hay (12 lb), silage (29 lb) and grain (2 lb) (lb/head/day as fed) This benchmark is based on 4 farms of data; outliers were excluded as required.Canfax Research Services (CRS) tries to provide quality information, but we make no claims, promises, or guarantees about the accuracy, completeness, or adequacy of the information. CRS

> 4.50 4.00

3.50

3.00

10%

1,488

9%

0.9%

8.5%

93 2%

91

642 648

578

44%

2.41

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Environment	
Average Annual Temperature	1.5° C
Average Annual Precipitation (mm)	400-500
Ecoregion	Aspen Parkland
Stocking Rate (Animal Unit days per acre)	35
Fertilize Hay (yes/no)	Yes
Fertilize Pasture (yes/no)	No
Typical Hay Yield (tonnes/acre)	1.5
Grassland Acres (owned+rented)	1,940
Crop Acres (includes hay) (owned+rented)	2,461
Bush and other acres	0
Physical Performance Indicators	
	Angus, Simmental,
Breed	Hereford, Limousin
Cow:Bull Ratio	24:1



Cost of Production (\$/Ib Weaned)

Production System

Footnotes:

Bull Culling Rate (%)

Cow Death Loss (%)

Cow Culling Rate (%)

Mature Cow Weight (lb)

Heifer Retention for a steady herd (%)

Calves alive after 24hr/100 Cows exposed Calf Death Loss (%) 24 hr to weaning

Calves weaned per 100 cows exposed

205 day adjusted Weaning Weight (lb)

Average Daily Gain pre-weaning (Ib)

Weaning Weight as % of Cow Weight

Total Liveweight Sold per Cow (lb) Weaning Weight (lb)

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Herd size	240
Days on field feeding (e.g. swath grazing)	0
Days supplemented on pasture	0
Days on full winter feed	197
Calving Start date	February 27
Weaning date	November 02
Sale date	November 02
Retained ownership	Replacements
% of feed purchased	0.7%
% of land in crops	56%
Annual sales Retained Cattle (head)	N/A
Placement weight (lbs)	N/A
Sale Weight (lbs)	N/A
Days on feed	0
Days on grass	0



Cost of Production: Cash Cost + Depreciation + Opportunity Costs

Cash Costs = Cash cost for purchased feed, fertiliser, seeds, fuel, maintenance, land rents, animal purchases, interest on liabilities, wages paid, veterinary costs plus medicine, water, insurance, accounting, etc (excl. Tax)

Depreciation = Linear depreciation on machinery and buildings, calculated on replacement values Opportunity Costs = Calculated cost for using own production factors like labour (family working hours * wage for qualified local labour, land (own land * regional land rents) and capital (non-land equity * long-term government bonds interest rate)

Whole Farm Profitability = Market returns (+ coupled payments) (+ decoupled payments) - whole-farm costs +/- changes in inventory +/- capital gains/losses. Whole Farm Net Income = Whole farm profitability + depreciation + changes in inventory + capital gains/losses. Known as: 'Net farm income' (Agri Profits, 2018)



Whole Farm Overview Page

Overview Operation Maturity	Medium						
Herd Size	240	Beef Animals Sold from Retained Ownership			N/A		
Paid Labour (livestock only) (hours)	-						
Unpaid Labour (livestock only) (hours) Average wages - paid and unpaid (\$/hr)	2,453 11.74						
Revenue		2024	2023	2022	2021	2020	5-yr. avg
Market Revenue	5-yr avg	1,150,689	1,238,252	1,426,474	788,074	857,428	1,092,184
Cow-Calf Cash Crops	35% 64%	538,633 612,057	459,142 779,111	353,549 1,072,925	279,672 508,403	280,526 576,902	382,304 709,879
Retained Ownership	0%	-	-	-	-	-	
Government Payments	1%	-	11,280	25,440	22,560	-	11,856
Other Farm Revenue +	0%	875	505	55	146	219	360
Total Revenue	100%	1,151,564	1,250,037	1,451,969	810,781	857,647	1,104,400
Change in Inventory		-	-	-			
Expenses		2024	2023	2022	2021	2020	5-yr. avg
Depreciation		42,812	36,815	32,892	31,428	30,340	34,857
Machinery Buildings		30,703 12,109	25,354 11,461	22,042 10,849	21,283 10,145	20,574 9,766	23,991 10,866
Quota econ. Accounting		-	-	-	-	-	-
Overhead costs		205,800	205,102	190,935	166,805	156,820	185,093
Land improvement		8,256	8,256	7,404	6,682	6,436	7,407
Machinery Maintenance		98,134	86,844	76,853	72,813	71,624	81,254
Buildings Maintenance		31,622	35,351	32,136	27,553	25,923	30,517
Contract labour		-	-	-	-	-	-
Diesel, Gasoline, Natural Gas		23,450	23,660	28,559	20,528	16,748	22,589
Electricity		11,587	18,380	12,712	7,715	5,673	11,214
Water		-	-	-	-	-	-
Farm insurance		17,502	17,502	18,077	17,163	16,556	17,360
Disability and accident insurance		-	-	-	-	- 8 720	- 0.163
Farm taxes and duties Advisor costs		9,238	9,238	9,542	9,059	8,739	9,163
Accountant & legal fees		-		-	-	-	-
Phone & utilities		6,012	5,872	5,651	5,292	5,120	5,589
Other overhead costs		-	-	-	-	-	-
Wages, rent and interest payments		72,323	71,937	77,397	65,722	57,809	69,038
Paid Labour		-	-	-	-	-	-
Total land rents		58,058	53,873	51,282	47,658	43,544	50,883
Total Interest on debt		14,265	18,064	26,115	18,064	14,265	18,155
Court Call		44 022	60 704	39,690	F1 00F	24 242	40 117
Cow-Calf Animal purchases		44,932 10,529	69,704 8,319	6,750	51,995 6,750	34,243 6,750	48,113 7,820
Purchased feed		16,828	43,872	15,004	28,354	11,179	23,047
Other fixed and var. costs *		17,575	17,513	17,936	16,891	16,314	17,246
		27,070	17,510	1,,550	10,001	10,011	27)210
Retained Ownership Animal purchases		-	-	-	-	-	-
Purchased feed		-	-	-	-	-	-
Other fixed and var. costs *		-	-	-	-		-
Crop and forage		381,698	391,722	410,913	366,050	341,656	378,408
Seed		82,436	79,796	69,771	66,040	63,233	72,255
Fertilizer Herbicide		193,744 27,576	195,097 39,616	211,960 49,262	184,429 44,616	169,022 42,612	190,850 40,737
Fungicide & Insecticide		-	-	49,202			
Irrigation		-	-	-	-	-	-
Contract labour		25,807	25,807	26,656	25,307	24,413	25,598
Fuel costs (crop & forage) Other crop and forage		14,187 37,947	14,342 37,063	17,594 35,671	12,251 33,406	10,055 32,321	13,686 35,282
Total Farm Costs (excludes unpaid labour)		57,947 747,565	775,279	751,828	681,999	620,868	715,508
Cash Costs (Total Farm Costs - Depreciation	n)	704,753	738,464	718,936	650,571	590,528	680,650
Depreciation & Opportunity Costs (includir		71,605	65,608	61,685	60,221	59,133	63,650
Total Economic Costs (cash, depr, opportu	nity)	776,358	804,072	780,620	710,792	649,661	744,301
Profits		2024	2023	2022	2021	2020	5-yr. avg
Net Income (Total Revenue - Total Farm Costs +	Change in Inv.)	403,999	474,758	700,141	128,781	236,779	388,892
Net Cash Farm Income (excludes depreciation)		445,936	511,068	732,978	160,063	266,900	423,389

+ Other Farm Revenue includes: Other enterprises, capital gains and losses as well as calculated interest on savings based on the models previous year profits. *Other fixed and var. costs includes: veterinary, medicine, maintenance and spare parts, and other/miscellaneous





Cow-Calf Enterprise (\$/Cow)	2024	2023	2022	2021	2020	5 yr. avg.
No. of Cows*	240	240	240	240	240	240
Average male and female calf price (\$/head)	2,504	2,147	1,652	1,303	1,308	1,783
REVENUE						
Cow Calf	2,244	1,960	1,579	1,259	1,169	1,642
Cull animals and slaughter receipts	162	126	92	78	78	107
Breeding livestock receipts	-	-	-	-	-	-
Calf Sales and transfer to retained ownership enterprise	2,082	1,787	1,381	1,087	1,091	1,486
Government payments	-	47.0	106.0	94.0	-	49.4
Other returns	-	-	-	-	-	-
Total Cow-Calf Revenue	2,244	1,960	1,579	1,259	1,169	1,642
VARIABLE COSTS						
Animal purchases	43.9	34.7	28.1	28.1	28.1	33
Feed (purchase feed, fertiliser, seed, pesticides)	243.2	353.7	228.6	269.2	189.3	257
Machinery (maintenance, depreciation, contractor)	311.8	233.9	164.7	198.5	183.0	218
Fuel, energy, lubricants, water	68.3	65.0	42.6	41.8	30.6	50
Vet & medicine	38.6	38.6	39.8	37.8	36.5	38
Other inputs cow calf enterprise	46.4	43.5	40.7	40.4	38.5	42
Labour						
Paid Labour	-	-	-	-	-	-
Unpaid Labour	158.7	125.7	86.8	118.0	105.0	119
Total Variable Costs	911.0	895.0	631.4	733.8	610.8	756
CAPITAL COSTS						
Insurance, taxes	57.2	50.1	42.5	48.0	44.4	48
Buildings (maintenance, depreciation)	85.3	72.3	44.4	55.7	48.7	61
Land Cost	-	-	-	-	-	
Rented Land	145.2	134.7	128.3	119.2	108.9	127
Own Land	263.8	244.9	232.8	215.8	198.4	231
Capital Costs	-	-	-	-	-	
Liabilities	27.8	28.3	28.4	28.1	19.4	26
Own capital	24.2	19.9	11.5	19.0	16.9	18
Total Capital Costs	603.5	550.4	487.9	485.9	436.7	513
COSTS						
Cash Costs	984.3	997.9	754.2	820.3	685.9	849
Depreciation Costs	83.5	56.9	34.0	46.5	41.4	52
Opportunity Costs	446.8	390.6	331.2	352.8	320.2	368
Total Production Costs	1,514.5	1,445.4	1,119.3	1,219.6	1,047.5	1,269
Profits	2024	2023	2022	2021	2020	5-yr. avg.
Short-term profit (cash costs)	1,260.0	962.2	824.9	439.0	482.9	794
Medium-term profit (cash + depreciation)	1,176.5	905.3	790.9	392.5	441.6	741
Long-term profit (cash + depreciation + opportunity)	729.8	514.7	459.8	39.7	121.3	373
*Model Maintains a stable herd size						

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Costs and revenue are reported for a calendar (e.g. January to December). It reflects revenue and expenses that a producer experiences over that period. Producers who want a cash flow analysis typically use a calendar or agricultural year. This method is often preferred by lenders when getting evaluated for a line of credit or a loan. The model maintains a stable herd, retention rates were adjusted to ensure that

Cash Costs Cash costs are the outlays over the course of the year, including machine repairs, paid labour, costs of feed production, and purchased feed. CDN COP Network bases cash costs on actual costs of production. Agri Profit\$ uses the

The cost of producing the feed on-farm and the purchased feed costs as used in that year to reflect the experience and situation of producers. Production inputs, land and any purchased feeds utilized that year are included. Rations for each type of animal and inventories are used to calculate total feed requirements. Any shortfall in production are assumed to be purchased at market value. Feed rations and yields are provided "as fed" to balance the model. Below are the included costs for feed production:

Feed: Calculated as feed cost (purchase feed + fertilizer, seed and pesticides for own feed production) + machinery cost (machinery maintenance + depreciation + contractor) + fuel, energy, lubricants and water + land cost (land Land: separated into owned and rented land, includes both crop and pastureland. Land costs = Rents paid + calculated land rents forown land (opportunity cost).

By using the cost of land, the advantage that mature operations have is clearly shown as their cost structure is lower when I and has been fully paid off.

Allocation

Generic allocation uses percent revenues from each commodity to cover overheads and utilizes accounting data for the overhead costs. This takes the approach that overheads and fixed costs will be covered by something growr on the farm and recognizes that there are commodity price cycles where grains and livestock tend to be opposite. It is not so much concerned about each enterprise paying their way as that all overheads are covered by the mix of commodities grown. It should be recognized that as commodity prices fluctuate and revenues to each enterprise fluctuate, the shifting shares will change the cost structure for each enterprise from year to year.

Depreciation

Depreciation on buildings and machinery is a non-cash cost that reveals the ability of the farm to continue operating if an asset needs replacement.

Differences in depreciation costs between AgriProfitS and the CDN COP Network primarily comes from the use of specific (AgriP rofitS) versus generic (CDN COP Network) allocation. Where generic allocation results in machinery depreciation used for feed production to show up in the cow-calf enterprise as that is where revenue is generated. In contrast, specific allocation removes that cost and since feed is treated at market value, machinery depreciation for feed production is treated as a cash cost. This results in the CDN COP Network typically having lower cash costs and higher depreciation costs than what is reported in AgriProfit\$.

Opportunity Costs

Opportunity costs are the non-cash costs that reveal the opportunity of using different resources. These costs can include Unpaid labour, renting out land, the opportunity of selling or buying feed production, and return to own capital. Land: The Opportunity costs of land are the rents for new contracts if the farm rents out owned land. It reflects the future cost d renting land. If the producers' profits of utilizing the land outweigh the profits of renting the land,

utilizing owned land for production should be preferred and vice-versa. Labour: The opportunity costs of labour are the calculated wage for family labour, either off-farm salary or farm manager salary. It is important to note that the opportunity cost of labour reflects the income you can receive for

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Unit Reported Often cow-calf COP is expressed as dollars per cow wintered (\$/cow wintered) which adjusts the calf price per head for the number of calves sold per 100 cows. When evaluating overall cost structure to identify areas for improvement, or comparing to a benchmark, this is sufficient.

However, a per unit cost provides producers with their break-even cost, allowing them to compare with posted market prices for their calves' average weight category. This break-even price will depend on the percentage of calves weaned that year from the cow herd. The higher percent weaned, the lower per pound the break -even price will be



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Cow-Calf Enterprise (\$/lb Weaned)	2024	2023	2022	2021	2020	5 yr. avg.
Pounds Weaned	128,453	128,453	128,453	128,453	128,453	128,453
Average male and female weaning weight (lbs)	648	648	648	648	648	648
Average male and female calf price at weaning (\$/lb)	3.87	3.31	2.55	2.01	2.02	2.75
REVENUE						
Cow Calf Operation	4.19	3.66	2.95	2.35	2.18	3.07
Cull animals and slaughter receipts	0.30	0.24	0.17	0.15	0.14	0.20
Breeding livestock receipts	-	-	-	-	-	-
Calf Sales and transfer to retained ownership enterprise	3.89	3.34	2.58	2.03	2.04	2.78
Government payments	-	0.09	0.20	0.18	-	0.09
Other returns	-	-	-	-	-	-
Total Cow-Calf Revenue	4.19	3.66	2.95	2.35	2.18	3.07
VARIABLE COSTS						
Animal purchases	0.08	0.06	0.05	0.05	0.05	0.06
Feed (purchase feed, fertiliser, seed, pesticides)	0.45	0.66	0.43	0.50	0.35	0.48
Machinery (maintenance, depreciation, contractor)	0.58	0.44	0.31	0.37	0.34	0.41
Fuel, energy, lubricants, water	0.13	0.12	0.08	0.08	0.06	0.09
Vet & medicine	0.07	0.07	0.07	0.07	0.07	0.07
Other inputs cow calf enterprise	0.09	0.08	0.08	0.08	0.07	0.08
Labour						
Paid Labour	-	-	-	-	-	-
Unpaid Labour	0.30	0.23	0.16	0.22	0.20	0.22
Total Variable Costs	1.7	1.7	1.2	1.4	1.1	1.4
CAPITAL COSTS						
Insurance, taxes	0.11	0.09	0.08	0.09	0.08	0.09
Buildings (maintenance, depreciation)	0.16	0.14	0.08	0.10	0.09	0.11
Land Cost						
Rented Land	0.27	0.25	0.24	0.22	0.20	0.24
Owned Land	0.49	0.46	0.43	0.40	0.37	0.43
Capital Costs						
Liabilities	0.05	0.05	0.05	0.05	0.04	0.05
Own capital	0.05	0.04	0.02	0.04	0.03	0.03
Total Capital Costs	1.1	1.0	0.9	0.9	0.8	1.0
COSTS						
Cash Costs	1.84	1.86	1.41	1.53	1.28	1.59
Depreciation Costs	0.16	0.11	0.06	0.09	0.08	0.10
Opportunity Costs	0.83	0.73	0.62	0.66	0.60	0.69
Total Production Costs	2.83	2.70	2.09	2.28	1.96	2.37
Profits	2024	2023	2022	2021	2020	5-yr. avg.
Short-term profit (cash costs)	2.35	1.80	1.54	0.82	0.90	1.48
Medium-term profit (cash + depreciation)	2.20	1.69	1.48	0.73	0.83	1.39
Long-term profit (cash + depreciation + opportunity)	1.36	0.96	0.86	0.07	0.23	0.70

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the same type of labour.

Capital: The opportunity cost of capital is the interest rate for long-term government bonds multiplied by the equity without land (values of machines, buildings, livestock, circulating capital, less total loans). If the producers' return on capital through farm and ranch production of an enterprise is greater than investing elsewhere then, continuous pro duction should be preferred. Unit Reported

Often cow-calf COP is expressed as dollars per cow wintered (\$/cow wintered) which adjusts the calf price per head for the number of calves sold per 100 cows. When evaluating overall cost structure to identify areas for

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