

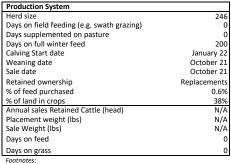
Farm Characteristics	LL_05
Farm Description	A cow-calf operation with 246 cows, utilizing mostly homegrown feed.
Winter Feeding Ration (lbs/cow/day as fed)	200 days on hay (13 lb) and silage (56 lb)
Retained Ownership/Replacement Ration (lb/head/day as fed)	Replacements: 213 days days on hay (8 lb), silage (33 lb) and grain (5 lb)
	This benchmark is based on 3 farms of data; outliers were excluded as required.Canfax Research Services (CRS) tries to provide quality

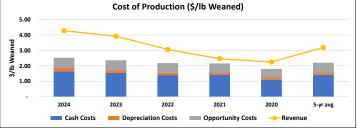
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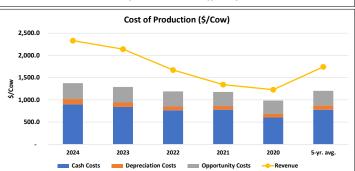
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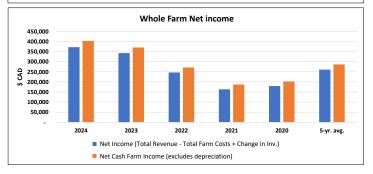
Environment	
Average Annual Temperature	1.5° C
Average Annual Precipitation (mm)	400-500
Ecoregion	Aspen Parkland
Stocking Rate (Animal Unit days per acre)	86
Fertilize Hay (yes/no)	Yes
Fertilize Pasture (yes/no)	No
Typical Hay Yield (tonnes/acre)	1.6
Grassland Acres (owned+rented)	761
Crop Acres (includes hay) (owned+rented)	460
Bush and other acres	0

Physical Performance Indicators	
	Angus, Hereford,
	Simmental,
Breed	Limousin
Cow:Bull Ratio	21:1
Bull Culling Rate (%)	8%
Mature Cow Weight (lb)	1,400
Heifer Retention for a steady herd (%)	15%
Cow Death Loss (%)	1.3%
Cow Culling Rate (%)	13.7%
Calves alive after 24hr/100 Cows exposed	93
Calf Death Loss (%) 24 hr to weaning	5%
Calves weaned per 100 cows exposed	89
Total Liveweight Sold per Cow (lb)	737
Weaning Weight (lb)	679
205 day adjusted Weaning Weight (lb)	568
Average Daily Gain pre-weaning (lb)	2.36
Weaning Weight as % of Cow Weight	48%









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,

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)

Revenue = sales of calves, cull cows, breeding stock, government payments and other revenue applicable to the specific enterprise



Whole Farm Overview Page

Overview							
Operation Maturity Herd Size Paid Labour (livestock only) (hours) Unpaid Labour (livestock only) (hours)	Medium 246 192 2,300	Beef Animals	Beef Animals Sold from Retained Ownership				
Average wages - paid and unpaid (\$/hr) Revenue	15.48	2024	2023	2022	2021	2020	5-yr. avg
Market Revenue Cow-Calf	5-yr avg 86%	573,437 573,437	515,769 515,769	385,030 385,030	307,361 307,361	302,168 302,168	416,753 416,753
Cash Crops	0%	-	313,709	-	507,301	-	410,733
Retained Ownership	0%	-	-	-	-	-	-
Government Payments	2%	-	10,824	26,076	23,124	-	12,005
Other Farm Revenue +	12%	56,883	56,588	56,333	56,378	56,449	56,526
Total Revenue	100%	630,321	583,181	467,439	386,863	358,617	485,284
Change in Inventory		-	-	<u>-</u>	-	<u>-</u>	-
Expenses		2024	2023	2022	2021	2020	5-yr. avg
Depreciation		31,602	27,554	24,839	23,653	22,824	26,094
Machinery		19,521	16,120	14,015	13,532	13,081	15,254
Buildings		12,080	11,434	10,824	10,121	9,743	10,840
Quota econ. Accounting		-	-	-	-	-	-
Overhead costs		65,927	67,039	66,025	56,339	51,968	61,460
Land improvement		6,032	6,032	5,410	4,882	4,703	5,412
Machinery Maintenance		16,539	14,636	12,952	12,271	12,071	13,694
Buildings Maintenance		651	728	661	567	534	628
Contract labour		14,833	14,833	15,321	14,546	14,032	14,713
Diesel, Gasoline, Natural Gas		14,416	14,552	17,633	12,579	10,277	13,891
Electricity		4,850	7,693	5,321	3,229	2,374	4,693
Water		- 2546	-	-	-	-	-
Farm insurance		3,546	3,546	3,662	3,477	3,354	3,517
Disability and accident insurance Farm taxes and duties		1 004	1 004	1 120	1 072	1 025	1 005
Advisor costs		1,094 1,378	1,094 1,378	1,130 1,423	1,073 1,351	1,035 1,303	1,085 1,367
Accountant & legal fees		842	842	870	826	797	835
Phone & utilities		1,747	1,706	1,642	1,538	1,488	1,624
Other overhead costs		-	-	-	-	-	-
Wages, rent and interest payments		44,291	43,048	43,815	39,813	32,289	40,651
Paid Labour					-	-	
Total land rents		44,128	40,657	39,308	37,422	32,127	38,728
Total Interest on debt		163	2,392	4,507	2,392	163	1,923
0 0 1/					60.000	20 500	
Cow-Calf		80,584	<i>65,782</i>	47,593	69,230	39,596	60,557
Animal purchases Purchased feed		6,463 40,417	5,106 28,006	4,143 10,105	4,143 35,248	4,143 7,649	4,800 24,285
Other fixed and var. costs *		33,704	32,669	33,345	29,840	27,804	31,472
		33,704	32,003	33,343	23,040	27,004	31,472
Retained Ownership Animal purchases		-	-	-	-	-	-
Purchased feed							
Other fixed and var. costs *		-	-	-	-	-	-
Crop and forage		36,059	36,923	38,791	34,540	32,264	35,715
Seed		7,146	6,917	6,048	5,725	5,482	6,264
Fertilizer		15,421	15,529	16,871	14,680	13,454	15,191
Herbicide Fungicide & Insecticide		2,390	3,434	4,270	3,867	3,694	3,531
Irrigation		-	-	-	-	-	-
Contract labour		5,311	5,311	5,486	5,208	5,024	5,268
Fuel costs (crop & forage)		2,242	2,266	2,780	1,936	1,589	2,162
Other crop and forage Total Farm Costs (excludes unpaid labour)		3,549 258,462	3,466 240,346	3,336 221,063	3,124 223,575	3,023 178,941	3,299 224,478
Cash Costs (Total Farm Costs - Depreciation)	<u> </u>	226,860	212,793	196,224	199,922	156,117	198,383
Depreciation & Opportunity Costs (including		67,218	63,170	60,455	199,922 59,270	58,441	61,711
Total Economic Costs (cash, depr, opportun		294,078	275,963	256,679	259,192	214,558	260,094
Profits	-11	2024	2023	2022	2021	2020	5-yr. avg
Net Income (Total Revenue - Total Farm Costs + 0	hange in Inv)	371,859	342,834	246,376	163,287	179,675	260,806
rece medine (rotar nevertue - rotar raini COSIS + C	mange in iniv.)	3,1,033	372,034	240,370	103,207	113,013	200,000

 $⁺ Other \ Farm \ Revenue \ includes: Other \ enterprises, capital \ gains \ and \ losses \ as \ well \ as \ calculated \ interest \ on savings \ based \ on \ the \ models \ previous \ year \ profits.$





 $[\]hbox{*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*	246	246	246	246	246	246
Average male and female calf price (\$/head)	2,528	2,320	1,726	1,383	1,349	1,861
REVENUE						
Cow Calf	2,331	2,141	1,671	1,343	1,228	1,743
Cull animals and slaughter receipts	286	220	162	126	133	185
Breeding livestock receipts	-	-	-	-	-	-
Calf Sales and transfer to retained ownership enterprise	2,045	1,877	1,403	1,124	1,095	1,509
Government payments	-	44.0	106.0	94.0	-	48.8
Other returns	-	-	-	-	-	-
Total Cow-Calf Revenue	2,331	2,141	1,671	1,343	1,228	1,743
VARIABLE COSTS						
Animal purchases	26.3	20.8	16.8	16.8	16.8	20
Feed (purchase feed, fertiliser, seed, pesticides)	304.7	257.7	187.2	274.5	154.5	236
Machinery (maintenance, depreciation, contractor)	210.0	188.7	172.3	159.8	154.7	177
Fuel, energy, lubricants, water	80.4	90.7	92.7	62.2	49.8	75
Vet & medicine	50.5	50.5	52.2	49.5	47.8	50
Other inputs cow calf enterprise	101.2	96.7	97.3	84.5	77.5	91
Labour						
Paid Labour	-	-	-	-	-	-
Unpaid Labour	150.8	149.3	149.2	137.2	132.0	144
Total Variable Costs	923.8	854.3	767.7	784.6	633.2	793
CAPITAL COSTS						
Insurance, taxes	17.6	17.4	17.6	16.3	15.7	17
Buildings (maintenance, depreciation)	47.1	44.6	40.7	36.7	35.2	41
Land Cost	-	-	-	-	-	
Rented Land	179.4	165.3	159.8	152.1	130.6	157
Own Land	131.3	122.2	115.6	106.4	99.6	115
Capital Costs	-	-	-	-	-	
Liabilities	0.6	8.8	16.1	8.3	0.6	7
Own capital	76.4	78.1	73.7	73.2	70.2	74
Total Capital Costs	452.3	436.3	423.5	393.1	351.8	411
COSTS						
Cash Costs	900.8	840.1	764.6	779.6	605.0	778
Depreciation Costs	117.0	101.0	88.1	81.3	78.2	93
Opportunity Costs	358.4	349.5	338.5	316.9	301.8	333
Total Production Costs	1,376.1	1,290.6	1,191.1	1,177.7	985.0	1,204
Profits	2024	2023	2022	2021	2020	5-yr. avg.
Short-term profit (cash costs)	1,430.3	1,300.5	906.6	563.9	623.3	965
Medium-term profit (cash + depreciation)	1,313.3	1,199.5	818.5	482.6	545.1	872
Long-term profit (cash + depreciation + opportunity)	954.9	850.0	480.0	165.7	243.4	539
*Model maintains a stable herd size						

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 (machinerymaintenance + depreciation + contractor) + fuel, energy, lubricants and water + land cost (land rents paid + opportunity cost own land)

Land: separated into owned and rented land, includes both crop and pastureland. Land costs = Rents paid + calculated land rents for own 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 land has been fully paid off.

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 grown 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 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 AgriProfit\$ and the CDN COP Network primarily comes from the use of specific (AgriProfit\$) 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 Unpai d 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 of 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.

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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.





Cow-Calf Enterprise (\$/lb Weaned)	2024	2023	2022	2021	2020	5 yr. avg.
Pounds Weaned	134,161	134,161	134,161	134,161	134,161	134,161
Average male and female weaning weight (lbs)	679	679	679	679	679	679
Average male and female calf price at weaning (\$/lb)	3.72	3.42	2.54	2.04	1.99	2.74
REVENUE						
Cow Calf Operation	4.27	3.93	3.06	2.46	2.25	3.20
Cull animals and slaughter receipts	0.53	0.40	0.30	0.23	0.24	0.34
Breeding livestock receipts	-	-	-	-	-	-
Calf Sales and transfer to retained ownership enterprise	3.75	3.44	2.57	2.06	2.01	2.77
Government payments	-	0.08	0.19	0.17	-	0.09
Other returns	-	-	-	-	-	-
Total Cow-Calf Revenue	4.27	3.93	3.06	2.46	2.25	3.20
VARIABLE COSTS						
Animal purchases	0.05	0.04	0.03	0.03	0.03	0.04
Feed (purchase feed, fertiliser, seed, pesticides)	0.56	0.47	0.34	0.50	0.28	0.43
Machinery (maintenance, depreciation, contractor)	0.39	0.35	0.32	0.29	0.28	0.32
Fuel, energy, lubricants, water	0.15	0.17	0.17	0.11	0.09	0.14
Vet & medicine	0.09	0.09	0.10	0.09	0.09	0.09
Other inputs cow calf enterprise	0.19	0.18	0.18	0.16	0.14	0.17
Labour						
Paid Labour	-	-	-	-	-	-
Unpaid Labour	0.28	0.27	0.27	0.25	0.24	0.26
Total Variable Costs	1.7	1.6	1.4	1.4	1.2	1.5
CAPITAL COSTS						
Insurance, taxes	0.03	0.03	0.03	0.03	0.03	0.03
Buildings (maintenance, depreciation)	0.09	0.08	0.07	0.07	0.06	0.07
Land Cost						
Rented Land	0.33	0.30	0.29	0.28	0.24	0.29
Owned Land	0.24	0.22	0.21	0.20	0.18	0.21
Capital Costs						
Liabilities	0.00	0.02	0.03	0.02	0.00	0.01
Own capital	0.14	0.14	0.14	0.13	0.13	0.14
Total Capital Costs	0.8	0.8	0.8	0.7	0.6	0.8
COSTS						
Cash Costs	1.65	1.54	1.40	1.43	1.11	1.43
Depreciation Costs	0.21	0.19	0.16	0.15	0.14	0.17
Opportunity Costs	0.66	0.64	0.62	0.58	0.55	0.61
Total Production Costs	2.52	2.37	2.18	2.16	1.81	2.21
Profits	2024	2023	2022	2021	2020	5-yr. avg.
Short-term profit (cash costs)	2.62	2.38	1.66	1.03	1.14	1.77
Medium-term profit (cash + depreciation)	2.41	2.20	1.50	0.88	1.00	1.60
Long-term profit (cash + depreciation + opportunity)	1.75	1.56	0.88	0.30	0.45	0.99

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