

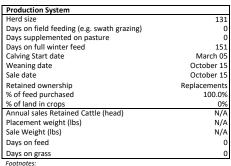
Farm Characteristics	LL_01
Farm Description	A cow-calf operation with 131 cows, relying on purchased feed.
Winter Feeding Ration	151 days on hay (28 lb) and greenfeed (8 lb)
(lbs/cow/day as fed)	
Retained Ownership/Replacement Ration	Replacement heifers: 213 days on hay (18 lb), greenfeed (6 lb) and barley grain (2 lb)
(lb/head/day as fed)	
	This benchmark is based on 3 farms of data; outliers were excluded as required.Canfax Research Services (CRS) tries to provide quality

Disclaimer:

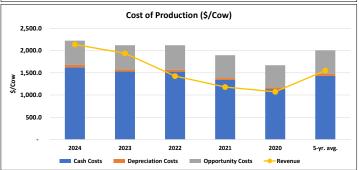
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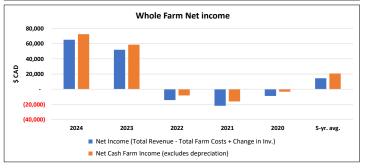
Environment	
Average Annual Temperature	5.1° C
Average Annual Precipitation (mm)	445
Ecoregion	Fescue Grassland
Stocking Rate (Animal Unit days per acre)	13
Fertilize Hay (yes/no)	N/A
Fertilize Pasture (yes/no)	No
Typical Hay Yield (tonnes/acre)	N/A
Grassland Acres (owned+rented)	3,484
Crop Acres (includes hay) (owned+rented)	0
Bush and other acres	0

Physical Performance Indicators	
	Simmental,
	Hereford, Angus,
Breed	Charolais, Gelbvieh
Cow:Bull Ratio	19:1
Bull Culling Rate (%)	14%
Mature Cow Weight (lb)	1,283
Heifer Retention for a steady herd (%)	14%
Cow Death Loss (%)	0.5%
Cow Culling Rate (%)	13.2%
Calves alive after 24hr/100 Cows exposed	91
Calf Death Loss (%) 24 hr to weaning	1%
Calves weaned per 100 cows exposed	89
Total Liveweight Sold per Cow (lb)	659
Weaning Weight (lb)	598
205 day adjusted Weaning Weight (lb)	591
Average Daily Gain pre-weaning (lb)	2.47
Weaning Weight as % of Cow Weight	47%









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 Net Income = Whole farm profitability + depreciation + changes in inventory + capital gains/losses. Known as: 'Net farm income' (Agri Profits, 2018)

Whole Farm Profitability = Market returns (+ coupled payments) (+ decoupled payments) - whole-farm costs +/- changes in inventory +/- capital gains/losses.



Whole Farm Overview Page

Overview	Start-up						
Operation Maturity							
Herd Size	131	Beet Animals	Sold from Retaine	ed Ownership	N/A		
Paid Labour (livestock only) (hours) Unpaid Labour (livestock only) (hours)	- 2,777						
Average wages - paid and unpaid (\$/hr)	23.62						
Revenue		2024	2023	2022	2021	2020	5-yr. avg
Market Revenue	5-yr avq	279,910	247,639	172,967	142,214	140,557	196,657
Cow-Calf	94%	279,910	247,639	172,967	142,214	140,557	196,657
Cash Crops	0%	-	-	-	-	-	-
Retained Ownership	0%	-	-	-	-	-	-
Government Payments	3%		6,157	13,886	12,314		6,471
Other Farm Revenue +	3%	5,852	5,821	5,817	5,817	5,817	5,825
Total Revenue	100%	285,761	259,617	192,670	160,345	146,374	208,954
Change in Inventory Expenses		2024	2023	2022	2021	2020	5-yr. avg
<u> </u>							
Depreciation		7,366	6,638	6,108	<i>5,772</i>	5,564	6,290
Machinery		2,762	2,281	1,983	1,915	1,851	2,158
Buildings		4,604	4,357	4,125	3,857	3,713	4,131
Quota econ. Accounting		-	-	-	-	-	-
Overhead costs		28,578	28,236	27,375	25,146	24,099	26,687
Land improvement		-	-	-	-	-	-
Machinery Maintenance		7,474	6,614	5,853	5,545	5,455	6,188
Buildings Maintenance		5,147	5,754	5,231	4,485	4,219	4,967
Contract labour		5,055	5,055	5,221	4,957	4,782	5,014
Diesel, Gasoline, Natural Gas		1,224	1,233	1,462	1,088	882	1,178
Electricity		-	-	-	-	-	-
Water		-	-	-	-	-	-
Farm insurance		3,807	3,807	3,932	3,733	3,601	3,776
Disability and accident insurance		-	-	-	-	-	-
Farm taxes and duties		413	413	427	405	391	410
Advisor costs		161	161	167	158	153	160
Accountant & legal fees		1,113	1,113	1,150	1,092	1,053	1,104
Phone & utilities		3,662	3,577	3,443	3,224	3,119	3,405
Other overhead costs		521	509	490	459	444	485
Wages, rent and interest payments		62,301	59,242	59,599	59,384	46,473	57,400
Paid Labour			-	-	-	-	-
Total land rents		56,066	50,854	50,854	50,854	38,140	49,354
Total Interest on debt		6,235	8,388	8,745	8,530	8,333	8,046
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Cow-Calf		122,296	113,420	113,997	91,992	79,209	104,182
Animal purchases		7,020	5,546	4,500	4,500	4,500	5,213
Purchased feed		110,054	102,699	104,271	82,513	69,876	93,883
Other fixed and var. costs *		5,222	5,175	5,225	4,979	4,833	5,087
Retained Ownership		-	-	-	-	-	-
Animal purchases		-	-	-	-	-	-
Purchased feed		-	-	-	-	-	-
Other fixed and var. costs *		-	-	-	-	-	-
Crop and forage		-	-	-	-	-	-
Seed		-	-	-	-	-	-
Fertilizer Herbicide		-	-	-		-	
Fungicide & Insecticide		-	-	-	-	-	
Irrigation		-	-	-	-	-	-
Contract labour		-	-	-	-	-	-
Fuel costs (crop & forage)		-	-	-	-	-	-
Other crop and forage Total Farm Costs (excludes unpaid labour)		220,541	207,536	207,078	182,293	155,345	194,559
Cash Costs (Total Farm Costs - Depreciation	1	213,175	200,898	200,970	176,521	149,780	188,269
Depreciation & Opportunity Costs (including		72,968	72,240	71,710	71,374	71,166	71,892
Total Economic Costs (cash, depr, opportun	. ,	286,143	273,138	272,681	247,895	220,947	260,161
Profits		2024	2023	2022	2021	2020	5-yr. avg
Net Income (Total Revenue - Total Farm Costs + 0	Observation to A	65,220	52,081	(14,408)	(21,948)	(8,970)	3-yr. avg

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





 $^{{}^{\}bullet} Other fixed and var. costs includes: veterinary, medicine, maintenance and spare parts, and other/miscellaneous$

Cow-Calf Enterprise (\$/Cow)	2024	2023	2022	2021	2020	5 yr. avg.
No. of Cows*	131	131	131	131	131	131
Average male and female calf price (\$/head)	2,285	2,077	1,435	1,164	1,144	1,621
REVENUE						
Cow Calf	2,137	1,937	1,426	1,180	1,073	1,551
Cull animals and slaughter receipts	401	310	223	188	193	263
Breeding livestock receipts	-	-	-	-	-	-
Calf Sales and transfer to retained ownership enterprise	1,735	1,581	1,098	898	880	1,238
Government payments	-	47.0	106.0	94.0	-	49.4
Other returns	-	-	-	-	-	-
Total Cow-Calf Revenue	2,137	1,937	1,426	1,180	1,073	1,551
VARIABLE COSTS						
Animal purchases	53.6	42.3	34.4	34.4	34.4	40
Feed (purchase feed, fertiliser, seed, pesticides)	840.1	784.0	796.0	629.9	533.4	717
Machinery (maintenance, depreciation, contractor)	114.3	104.0	96.4	91.1	88.6	99
Fuel, energy, lubricants, water	9.2	9.2	10.8	8.0	6.5	9
Vet & medicine	8.2	8.2	8.5	8.1	7.8	8
Other inputs cow calf enterprise	63.1	61.9	60.5	57.0	55.2	60
Labour						
Paid Labour	-	-	-	-	-	-
Unpaid Labour	506.3	504.9	516.4	486.9	469.4	497
Total Variable Costs	1,594.8	1,514.6	1,523.0	1,315.1	1,195.3	1,429
CAPITAL COSTS						
Insurance, taxes	41.0	40.9	41.9	39.6	38.2	40
Buildings (maintenance, depreciation)	72.9	75.4	69.1	61.2	58.1	67
Land Cost	-	-	-	-	-	
Rented Land	428.0	388.2	388.2	388.2	291.1	377
Own Land	-	-	-	-	-	-
Capital Costs	-	-	-	-	-	
Liabilities	46.6	62.6	64.7	62.8	61.1	60
Own capital	38.8	38.2	33.5	28.2	26.1	33
Total Capital Costs	627.2	605.3	597.5	579.9	474.7	577
COSTS						
Cash Costs	1,621.9	1,527.3	1,525.4	1,337.7	1,133.6	1,429
Depreciation Costs	55.1	49.5	45.1	42.3	40.8	47
Opportunity Costs	545.0	543.1	550.0	515.1	495.5	530
Total Production Costs	2,222.0	2,119.9	2,120.5	1,895.1	1,669.9	2,005
Profits	2024	2023	2022	2021	2020	5-yr. avg.
Short-term profit (cash costs)	514.8	410.1	(99.1)	(158.1)	(60.7)	121
Medium-term profit (cash + depreciation)	459.7	360.6	(144.2)	(200.4)	(101.5)	75
Long-term profit (cash + depreciation + opportunity) *Model Maintains a stable herd size	(85.3)	(182.5)	(694.1)	(715.5)	(597.0)	(455)

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

tents paid + opportunity cost own 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.

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 degreciation costs between AgriProfit\$ and the CDN COP Network primarily comes from the use of specific (AgriP rofit\$) 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 c osts 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 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.

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

Capital: The opportunity costs of about are the calculated wage for family labour, either on-family allow, either on-family allow, it is important to indeed that 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 production 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 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	59,480	59,480	59,480	59,480	59,480	59,480
Average male and female weaning weight (lbs)	598	598	598	598	598	598
Average male and female calf price at weaning (\$/lb)	3.82	3.47	2.40	1.95	1.91	2.71
REVENUE						
Cow Calf Operation	4.71	4.27	3.14	2.60	2.36	3.42
Cull animals and slaughter receipts	0.88	0.68	0.49	0.41	0.42	0.58
Breeding livestock receipts	-	-	-	-	-	-
Calf Sales and transfer to retained ownership enterprise	3.82	3.48	2.42	1.98	1.94	2.73
Government payments	-	0.10	0.23	0.21	-	0.11
Other returns	-	-	-	-	-	-
Total Cow-Calf Revenue	4.71	4.27	3.14	2.60	2.36	3.42
VARIABLE COSTS						
Animal purchases	0.12	0.09	0.08	0.08	0.08	0.09
Feed (purchase feed, fertiliser, seed, pesticides)	1.85	1.73	1.75	1.39	1.17	1.58
Machinery (maintenance, depreciation, contractor)	0.25	0.23	0.21	0.20	0.20	0.22
Fuel, energy, lubricants, water	0.02	0.02	0.02	0.02	0.01	0.02
Vet & medicine	0.02	0.02	0.02	0.02	0.02	0.02
Other inputs cow calf enterprise	0.14	0.14	0.13	0.13	0.12	0.13
Labour						
Paid Labour	-	-	-	-	-	-
Unpaid Labour	1.12	1.11	1.14	1.07	1.03	1.09
Total Variable Costs	3.5	3.3	3.4	2.9	2.6	3.1
CAPITAL COSTS						
Insurance, taxes	0.09	0.09	0.09	0.09	0.08	0.09
Buildings (maintenance, depreciation)	0.16	0.17	0.15	0.13	0.13	0.15
Land Cost						
Rented Land	0.94	0.85	0.85	0.85	0.64	0.83
Owned Land	-	-	-	-	-	-
Capital Costs						
Liabilities	0.10	0.14	0.14	0.14	0.13	0.13
Own capital	0.09	0.08	0.07	0.06	0.06	0.07
Total Capital Costs	1.4	1.3	1.3	1.3	1.0	1.3
COSTS						
Cash Costs	3.57	3.36	3.36	2.95	2.50	3.15
Depreciation Costs	0.12	0.11	0.10	0.09	0.09	0.10
Opportunity Costs	1.20	1.20	1.21	1.13	1.09	1.17
Total Production Costs	4.89	4.67	4.67	4.17	3.68	4.42
Profits	2024	2023	2022	2021	2020	5-yr. avg.
Short-term profit (cash costs)	1.13	0.90	(0.22)	(0.35)	(0.13)	0.27
Medium-term profit (cash + depreciation)	1.01	0.79	(0.32)	(0.44)	(0.22)	0.16
Long-term profit (cash + depreciation + opportunity)	(0.19)	(0.40)	(1.53)	(1.58)	(1.31)	(1.00)

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