

Farm Characteristics

CA-ONMB-1

Farm Description

A cow-calf operation with 60 cows, producing predominantly homegrown feed around the LakeWabigoon Ecoregion (Northwest Ontario and Southeast Manitoba).

Winter Feeding Ration (lbs/cow/day as fed)

206 days on hay (35 lbs)

Retained Ownership/Replacement Ration (lb/head/day as fed)

Replacement heifers: 206 days on hay (20 lbs) and oats (2 lbs)

Disclaimer:

This benchmark is based on 3 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 does not guarantee and accepts no legal liability arising from or connected to, the accuracy, reliability, or completeness of any material contained in our publications. Reproduction and/or electronic transmission of this publication, in whole or in part, is strictly forbidden without written consent from CRS.

Environment

Average Annual Temperature	0.1 to 2.6°C
Average Annual Precipitation (mm)	565 to 724 mm
Ecoregion	Lake Wabigoon (4S)
Stocking Rate (Animal Unit days per acre)	66
Fertilize Hay (yes/no)	Yes
Fertilize Pasture (yes/no)	No
Typical Hay Yield (tonnes/acre)	1.5
Grassland Acres (owned+rented)	222
Crop Acres (includes hay) (owned+rented)	173
Bush and other acres	0

Physical Performance Indicators

Breed	Mixed
Cow:Bull Ratio	20:1
Bull Culling Rate (%)	33%
Mature Cow Weight (lb)	1,315
Heifer Retention for a steady herd (%)	17%
Cow Death Loss (%)	3.0%
Cow Culling Rate (%)	13.0%
Calves alive after 24hr/100 Cows exposed	89
Calf Death Loss (%) 24 hr to weaning	1%
Calves weaned per 100 cows exposed	88
Total Liveweight Sold per Cow (lb)	551
Weaning Weight (lb)	466
205 day adjusted Weaning Weight (lb)	529
Average Daily Gain pre-weaning (lb)	2.16
Weaning Weight as % of Cow Weight	35%

Production System

Herd size	60
Days on field feeding (e.g. swath grazing)	0
Days supplemented on pasture	0
Days on full winter feed	206
Calving Start date	April 14
Weaning date	October 25
Sale date	October 26
Retained ownership	N/A
% of feed purchased	1.8%
% of land in crops	44%
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

Footnotes:

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

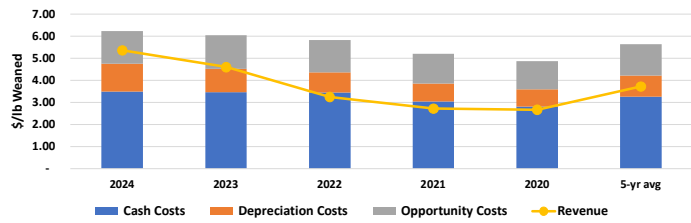
Opportunity Costs = Calculated cost for using own production factors like labour (family working hours * wage for qualified local labour, land (own land * regional land rents) and capital (non-land equity * long-term government bonds interest rate)

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

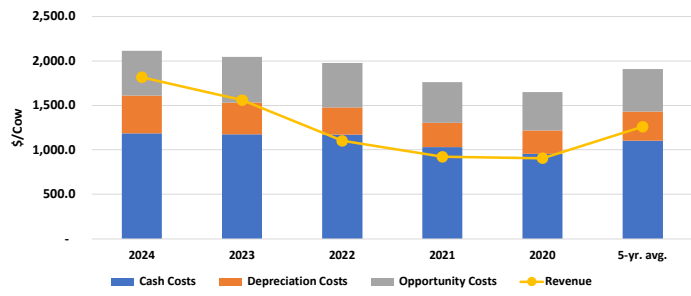
Whole Farm Net Income = Whole farm profitability + depreciation + changes in inventory + capital gains/losses. Known as: 'Net farm income' (Agri Profits, 2018)

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

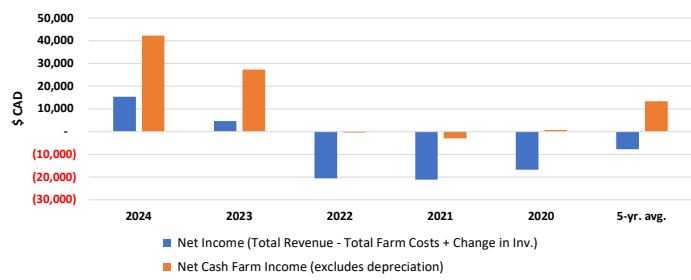
Cost of Production (\$/lb Weaned)



Cost of Production (\$/Cow)



Whole Farm Net income



Whole Farm Overview Page

Overview							
Operation Maturity	Medium						
Herd Size	60						
Paid Labour (livestock only) (hours)	-			Beef Animals Sold from Retained Ownership	N/A		
Unpaid Labour (livestock only) (hours)	926						
Average wages - paid and unpaid (\$/hr)	23.00						
Revenue		2024	2023	2022	2021	2020	5-yr. avg.
Market Revenue	5-yr avg	108,981	93,666	66,094	55,347	54,357	75,689
Cow-Calf	93%	108,981	93,666	66,094	55,347	54,357	75,689
Cash Crops	0%	-	-	-	-	-	-
Retained Ownership	0%	-	-	-	-	-	-
Government Payments	0%	-	-	-	-	-	-
Other Farm Revenue †	7%	5,800	5,800	5,800	5,800	5,800	5,800
Total Revenue	100%	114,781	99,466	71,894	61,147	60,157	81,489
Change in Inventory		-	-	-	-	-	-
Expenses		2024	2023	2022	2021	2020	5-yr. avg.
Depreciation		26,825	22,702	20,070	18,187	17,549	21,066
Machinery		22,269	18,390	15,988	14,370	13,874	16,978
Buildings		4,556	4,312	4,082	3,817	3,675	4,088
Quota econ. Accounting		-	-	-	-	-	-
Overhead costs		21,683	21,539	22,019	20,206	18,893	20,868
Land improvement		6,979	6,670	6,504	6,430	6,246	6,566
Machinery Maintenance		3,304	3,070	3,074	3,387	3,332	3,234
Buildings Maintenance		692	679	646	565	540	624
Contract labour		-	-	-	-	-	-
Diesel, Gasoline, Natural Gas		3,126	3,352	3,978	2,469	1,670	2,919
Electricity		466	470	407	342	335	404
Water		-	-	-	-	-	-
Farm insurance		2,819	2,940	3,036	2,883	2,781	2,892
Disability and accident insurance		438	456	471	447	432	449
Farm taxes and duties		1,449	1,511	1,561	1,482	1,429	1,486
Advisor costs		-	-	-	-	-	-
Accountant & legal fees		549	572	591	561	542	563
Phone & utilities		1,041	1,017	979	916	887	968
Other overhead costs		821	802	772	723	699	763
Wages, rent and interest payments		19,235	17,630	15,682	13,956	13,120	15,925
Paid Labour		-	-	-	-	-	-
Total land rents		3,343	3,220	2,965	2,660	2,374	2,912
Total interest on debt		15,892	14,411	12,717	11,296	10,746	13,012
Cow-Calf		16,345	17,428	17,574	16,259	15,492	16,620
Animal purchases		6,167	6,167	6,167	6,167	6,167	6,167
Purchased feed		4,451	5,376	5,351	4,402	3,854	4,687
Other fixed and var. costs *		5,727	5,885	6,056	5,690	5,471	5,766
Retained Ownership		-	-	-	-	-	-
Animal purchases		-	-	-	-	-	-
Purchased feed		-	-	-	-	-	-
Other fixed and var. costs *		-	-	-	-	-	-
Crop and forage		15,301	15,563	17,101	13,722	11,935	14,724
Seed		2,080	1,999	1,890	1,801	1,741	1,902
Fertilizer		8,666	8,784	9,776	8,225	7,415	8,573
Herbicide		-	-	-	-	-	-
Fungicide & Insecticide		-	-	-	-	-	-
Irrigation		-	-	-	-	-	-
Contract labour		-	-	-	-	-	-
Fuel costs (crop & forage)		3,466	3,717	4,411	2,738	1,852	3,237
Other crop and forage		1,088	1,063	1,023	958	927	1,012
Total Farm Costs (excludes unpaid labour)		99,389	94,862	92,445	82,330	76,990	89,203
Cash Costs (Total Farm Costs - Depreciation)		72,564	72,160	72,376	64,143	59,441	68,137
Depreciation & Opportunity Costs (including unpaid labour)		48,116	43,993	41,361	39,477	38,840	42,357
Total Economic Costs (cash, depr, opportunity)		120,680	116,153	113,736	103,621	98,280	110,494
Profits		2024	2023	2022	2021	2020	5-yr. avg.
Net Income (Total Revenue - Total Farm Costs + Change in Inv.)		15,392	4,604	(20,552)	(21,183)	(16,832)	(7,714)
Net Cash Farm Income (excludes depreciation)		42,217	27,306	(482)	(2,997)	717	13,352

† 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*	60	60	60	60	60	60
Average male and female calf price (\$/head)	1,992	1,719	1,177	1,009	994	1,378
REVENUE						
Cow Calf	1,816	1,561	1,102	922	906	1,261
Cull animals and slaughter receipts	345	281	226	173	168	238
Breeding livestock receipts	-	-	-	-	-	-
Calf Sales and transfer to retained ownership enterprise	1,471	1,280	876	750	738	1,023
Government payments	-	-	-	-	-	-
Other returns	-	-	-	-	-	-
Total Cow-Calf Revenue	1,816	1,561	1,102	922	906	1,261
VARIABLE COSTS						
Animal purchases	102.8	102.8	102.8	102.8	102.8	103
Feed (purchase feed, fertiliser, seed, pesticides)	387.7	398.2	409.1	363.6	336.4	379
Machinery (maintenance, depreciation, contractor)	404.7	336.8	292.1	267.9	259.1	312
Fuel, energy, lubricants, water	114.6	121.9	140.7	88.0	61.1	105
Vet & medicine	43.0	44.8	46.3	44.0	42.4	44
Other inputs cow calf enterprise	90.6	90.8	90.5	84.1	80.8	87
Labour						
Paid Labour	-	-	-	-	-	-
Unpaid Labour	364.7	377.2	380.3	355.5	342.4	364
Total Variable Costs	1,508.1	1,472.5	1,461.8	1,305.9	1,224.9	1,395
CAPITAL COSTS						
Insurance, taxes	75.7	78.5	79.8	74.9	72.2	76
Buildings (maintenance, depreciation)	83.0	78.3	72.4	66.1	63.5	73
Land Cost	-	-	-	-	-	-
Rented Land	55.7	53.7	49.4	44.3	39.6	49
Own Land	63.7	61.0	57.2	54.4	51.9	58
Capital Costs	-	-	-	-	-	-
Liabilities	251.5	226.2	194.9	170.4	161.8	201
Own capital	75.5	75.2	60.9	46.2	34.2	58
Total Capital Costs	605.1	572.8	514.5	456.5	423.2	514
COSTS						
Cash Costs	1,184.8	1,175.7	1,170.4	1,031.8	955.4	1,104
Depreciation Costs	424.5	356.3	307.5	274.4	264.3	325
Opportunity Costs	503.9	513.3	498.4	456.2	428.5	480
Total Production Costs	2,113.2	2,045.3	1,976.3	1,762.3	1,648.1	1,909
Profits	2024	2023	2022	2021	2020	5-yr. avg.
Short-term profit (cash costs)	631.5	385.4	(68.8)	(109.3)	(49.4)	158
Medium-term profit (cash + depreciation)	207.0	29.1	(376.3)	(383.7)	(313.7)	(168)
Long-term profit (cash + depreciation + opportunity)	(296.9)	(484.2)	(874.8)	(839.9)	(742.2)	(648)

*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 market value for some cash costs, including feed.

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 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.

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 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

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

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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 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 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	20,323	20,323	20,323	20,323	20,323	20,323
Average male and female weaning weight (lbs)	466	466	466	466	466	466
Average male and female calf price at weaning (\$/lb)	4.27	3.69	2.53	2.16	2.13	2.96
REVENUE						
Cow Calf Operation	5.36	4.61	3.25	2.72	2.67	3.72
Cull animals and slaughter receipts	1.02	0.83	0.67	0.51	0.49	0.70
Breeding livestock receipts	-	-	-	-	-	-
Calf Sales and transfer to retained ownership enterprise	4.34	3.78	2.59	2.21	2.18	3.02
Government payments	-	-	-	-	-	-
Other returns	-	-	-	-	-	-
Total Cow-Calf Revenue	5.36	4.61	3.25	2.72	2.67	3.72
VARIABLE COSTS						
Animal purchases	0.30	0.30	0.30	0.30	0.30	0.30
Feed (purchase feed, fertiliser, seed, pesticides)	1.14	1.18	1.21	1.07	0.99	1.12
Machinery (maintenance, depreciation, contractor)	1.19	0.99	0.86	0.79	0.77	0.92
Fuel, energy, lubricants, water	0.34	0.36	0.42	0.26	0.18	0.31
Vet & medicine	0.13	0.13	0.14	0.13	0.13	0.13
Other inputs cow calf enterprise	0.27	0.27	0.27	0.25	0.24	0.26
Labour						
Paid Labour	-	-	-	-	-	-
Unpaid Labour	1.08	1.11	1.12	1.05	1.01	1.07
Total Variable Costs	4.5	4.3	4.3	3.9	3.6	4.1
CAPITAL COSTS						
Insurance, taxes	0.22	0.23	0.24	0.22	0.21	0.22
Buildings (maintenance, depreciation)	0.25	0.23	0.21	0.20	0.19	0.21
Land Cost						
Rented Land	0.16	0.16	0.15	0.13	0.12	0.14
Owned Land	0.19	0.18	0.17	0.16	0.15	0.17
Capital Costs						
Liabilities	0.74	0.67	0.58	0.50	0.48	0.59
Own capital	0.22	0.22	0.18	0.14	0.10	0.17
Total Capital Costs	1.8	1.7	1.5	1.3	1.2	1.5
COSTS						
Cash Costs	3.50	3.47	3.46	3.05	2.82	3.26
Depreciation Costs	1.25	1.05	0.91	0.81	0.78	0.96
Opportunity Costs	1.49	1.52	1.47	1.35	1.26	1.42
Total Production Costs	6.24	6.04	5.83	5.20	4.87	5.64
Profits	2024	2023	2022	2021	2020	5-yr. avg.
Short-term profit (cash costs)	1.86	1.14	(0.20)	(0.32)	(0.15)	0.47
Medium-term profit (cash + depreciation)	0.61	0.09	(1.11)	(1.13)	(0.93)	(0.49)
Long-term profit (cash + depreciation + opportunity)	(0.88)	(1.43)	(2.58)	(2.48)	(2.19)	(1.91)

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