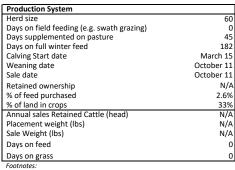
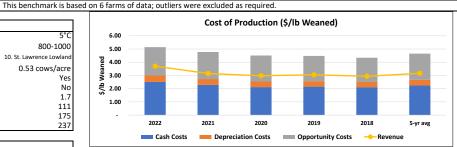


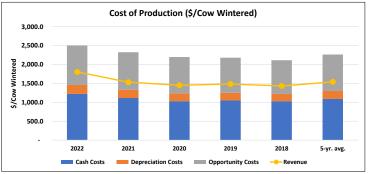
Farm Characteristics	CA-QC-5
Farm Description	A cow-calf operation with 60 beef cows that purchases all replacement heifers and produces predominantly homegrown feed.
Winter Feeding Ration	45 days supplemented hay (19 lb) on pasture, followed by 182 days on hay (39 lb) and corn grain (0.5 lb)
(lbs/cow/day as fed)	
Retained Ownership/Replacement Ration	N/A
(lb/head/day as fed)	
Disclaimer:	This benchmark is based on 6 farms of data; outliers were excluded as required.

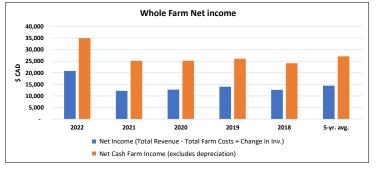
Environment	
Average Annual Temperature	5°C
Average Annual Precipitation (mm)	800-1000
Ecoregion	10. St. Lawrence Lowland
Stocking Rate (Animal Unit days per acre)	0.53 cows/acre
Fertilize Hay (yes/no)	Yes
Fertilize Pasture (yes/no)	No
Typical Hay Yield (tonnes/acre)	1.7
Grassland Acres (owned+rented)	111
Crop Acres (includes hay) (owned+rented)	175
Bush and other acres	237

Physical Performance Indicators	
Breed	Mixed
Cow:Bull Ratio	20:1
Bull Culling Rate (%)	8%
Mature Cow Weight (lb)	1,300
Heifer Retention for a steady herd (%)	12%
Cow Death Loss (%)	1.7%
Cow Culling Rate (%)	10.0%
Calves alive after 24hr/100 Cows exposed	93
Calf Death Loss (%) 24 hr to weaning	4%
Calves weaned per 100 cows exposed	90
Total Liveweight Sold per Cow (lb)	650
Weaning Weight (lb)	541
205 day adjusted Weaning Weight (lb)	528
Average Daily Gain pre-weaning (lb)	2.17
Weaning Weight as % of Cow Weight	42%









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)

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

NOTE: Feed costs are based on cost of production if homegrown.



Whole Farm Overview Page

Operation Maturity	2022 76,230 76,230 76,230 2033 37 108,300 - 2022 14,227 10,317 3,911 - 32,620 512 6,896 3,650 3,038 10,432 731 - 3,478 - 1,016 675 1,192 1,000 - 9,947	2021 64,776 64,776 64,776 27,167 5 91,947 - 2021 12,929 9,272 3,657 - 27,528 483 6,335 3,541 3,132 6,426 636 - 3,302 - 964 641 1,132 937 -	2020 63,167 63,167 63,167 23,837 14 87,018 - 2020 12,473 8,953 3,520 24,758 461 6,138 3,336 3,038 4,425 627 - 3,186 - 930 618 1,092 906	N/A 2019 62,328 62,328 62,328 20 89,055 20 12,115 8,655 3,461 26,285 458 6,056 3,324 2,906 6,336 655 - 3,090 - 902 599 1,059 900	2018 60,932 60,932 24,965 15 85,913 - 2018 11,530 8,155 3,375 - 25,943 447 5,947 3,230 2,782 6,635 615 - 2,956 - 863 573 1,013	5-yr. avg 65,486 65,486 65,486 65,486 26,942 18 92,447 - 5-yr. avg 12,655 9,070 3,585 - 27,427 472 6,274 3,416 2,979 6,851 653 - 3,202 - 9355 621 1,097
Revenue Market Revenue 5-yr avg Cow-Calf 71% Cash Crops 0% Retained Ownership 0% Government Payments 29% Other Farm Revenue 100% Change in Inventory Expenses Depreciation Machinery Buildings Quota econ. Accounting Overhead costs Land improvement Machinery Maintenance Buildings Maintenance Buildings Maintenance Contract labour Diesel, Gasoline, Natural Gas Electricity Water Farm insurance Disability and accident insurance Farm taxes and duties Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	76,230 76,230 76,230 76,230 32,033 37 108,300 2022 14,227 10,317 3,911 - 32,620 512 6,896 3,650 3,038 10,432 731 - 3,478 - 1,016 675 1,192 1,000 - 9,947	64,776 64,776 64,776 27,167 5 91,947 2021 12,929 9,272 3,657 27,528 483 6,335 3,541 3,132 6,426 636 3,302 964 641 1,132 937	63,167 63,167 63,167 23,837 14 87,018 2020 12,473 8,953 3,520 24,758 461 6,138 3,336 3,038 4,425 627 3,186 930 618 1,092	62,328 62,328 62,328 7 26,708 20 89,055 7 2019 12,115 8,655 3,461 7 26,285 458 6,056 3,324 2,906 6,336 655 7 3,090 7 902 599 1,059	60,932 60,932 	5-yr. avj 12,65: 92,44: 5-yr. avj 12,65: 9,07: 6,27: 3,41: 2,97: 6,85: - 3,20: - 3,20: - 93: 62:
Revenue Market Revenue Cow-Calf Cash Crops O% Retained Ownership Government Payments Other Farm Revenue 1 O% Total Revenue 100% Change in Inventory Expenses Depreciation Machinery Buildings Quota econ. Accounting Overhead costs Land improvement Machinery Maintenance Buildings Maintenance Contract labour Diesel, Gasoline, Natural Gas Electricity Water Farm insurance Disability and accident insurance Farm taxes and duties Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	76,230 76,230 76,230 76,230 32,033 37 108,300 2022 14,227 10,317 3,911 - 32,620 512 6,896 3,650 3,038 10,432 731 - 3,478 - 1,016 675 1,192 1,000 - 9,947	64,776 64,776 64,776 27,167 5 91,947 2021 12,929 9,272 3,657 27,528 483 6,335 3,541 3,132 6,426 636 3,302 964 641 1,132 937	63,167 63,167 63,167 23,837 14 87,018 2020 12,473 8,953 3,520 24,758 461 6,138 3,336 3,038 4,425 627 3,186 930 618 1,092	62,328 62,328 62,328 7 26,708 20 89,055 7 2019 12,115 8,655 3,461 7 26,285 458 6,056 3,324 2,906 6,336 655 7 3,090 7 902 599 1,059	60,932 60,932 	5-48. 65,48. 65,48. 65,48. 11. 92,44. 12. 5-yr. av. 12,65. 9,07. 3,58 27,42. 47. 6,27. 3,41. 2,97. 6,85 3,20 93. 62.
Cow-Calf Cash Crops Retained Ownership O% Retained Ownership O% Government Payments Other Farm Revenue + O% Total Revenue 100% Change in Inventory Expenses Depreciation Machinery Buildings Quota econ. Accounting Overhead costs Land improvement Machinery Maintenance Buildings Maintenance Buildings Maintenance Contract labour Diesel, Gasoline, Natural Gas Electricity Water Farm insurance Disability and accident insurance Farm taxes and duties Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	76,230 32,033 37 108,300 2022 14,227 10,317 3,911 - 32,620 512 6,896 3,650 3,038 10,432 731 - 3,478 - 1,016 675 1,192 1,000 - 9,947	64,776 27,167 5 91,947 - 2021 12,929 9,272 3,657 - 27,528 483 6,335 3,541 3,132 6,426 636 - 3,302 - 964 641 1,132 937	63,167 - 23,837 14 87,018 - 2020 12,473 8,953 3,520 - 24,758 461 6,138 3,336 3,038 4,425 627 - 3,186 - 930 618 1,092	62,328 - 26,708 20 89,055 - 2019 12,115 8,655 3,461 - 26,285 458 6,056 3,324 2,906 6,336 655 - 3,090 - 902 599 1,059	60,932 24,965 - 15 85,913 - 2018 11,530 - 8,155 - 3,375 - 25,943 - 447 5,947 3,230 2,782 6,635 615 - 2,956 - 863 573 1,013	65,486
Cow-Calf Cash Crops Retained Ownership O% Retained Ownership O% Government Payments Other Farm Revenue + O% Total Revenue 100% Change in Inventory Expenses Depreciation Machinery Buildings Quota econ. Accounting Overhead costs Land improvement Machinery Maintenance Buildings Maintenance Buildings Maintenance Contract labour Diesel, Gasoline, Natural Gas Electricity Water Farm insurance Disability and accident insurance Farm taxes and duties Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	76,230 32,033 37 108,300 2022 14,227 10,317 3,911 - 32,620 512 6,896 3,650 3,038 10,432 731 - 3,478 - 1,016 675 1,192 1,000 - 9,947	64,776 27,167 5 91,947 - 2021 12,929 9,272 3,657 - 27,528 483 6,335 3,541 3,132 6,426 636 - 3,302 - 964 641 1,132 937	63,167 - 23,837 14 87,018 - 2020 12,473 8,953 3,520 - 24,758 461 6,138 3,336 3,038 4,425 627 - 3,186 - 930 618 1,092	62,328 - 26,708 20 89,055 - 2019 12,115 8,655 3,461 - 26,285 458 6,056 3,324 2,906 6,336 655 - 3,090 - 902 599 1,059	60,932 24,965 - 15 85,913 - 2018 11,530 - 8,155 - 3,375 - 25,943 - 447 5,947 3,230 2,782 6,635 615 - 2,956 - 863 573 1,013	65,486
Retained Ownership 0% Government Payments 29% Other Farm Revenue + 0% Total Revenue 100% Change in Inventory Expenses Depreciation Machinery Buildings Quota econ. Accounting Overhead costs Land improvement Machinery Maintenance Buildings Maintenance Contract labour Diesel, Gasoline, Natural Gas Electricity Water Farm insurance Disability and accident insurance Farm taxes and duties Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	32,033 37 108,300 - 2022 14,227 10,317 3,911 - 32,620 512 6,896 3,650 3,038 10,432 731 - 3,478 - 1,016 675 1,192 1,000 - 9,947	27,167 5 91,947 - 2021 12,929 9,272 3,657 - 27,528 483 6,335 3,541 3,132 6,426 636 - 3,302 - 964 641 1,132 937	23,837 14 87,018 - 2020 12,473 8,953 3,520 - 24,758 461 6,138 3,336 3,038 4,425 627 - 3,186 - 930 618 1,092	26,708 20 89,055 2019 12,115 8,655 3,461 - 26,285 458 6,056 3,324 2,906 6,336 655 - 3,090 - 902 599 1,059	24,965 15 85,913 - 2018 11,530 8,155 3,375 - 25,943 447 5,947 3,230 2,782 6,635 615 - 2,956 - 2,956 - 863 573 1,013	26,944 92,447 5-yr. av ₁ 12,659 9,070 3,588 - 27,422 477 6,274 3,410 2,979 6,850
Government Payments 0% Other Farm Revenue + 0% Total Revenue 100% Change in Inventory Expenses Depreciation Machinery Buildings Quota econ. Accounting Overhead costs Land improvement Machinery Maintenance Buildings Maintenance Contract labour Diesel, Gasoline, Natural Gas Electricity Water Farm insurance Disability and accident insurance Farm taxes and duties Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	37 108,300 - 2022 14,227 10,317 3,911 - 32,620 512 6,896 3,650 3,038 10,432 731 - 3,478 - 1,016 675 1,192 1,000 - 9,947	5 91,947 - 2021 12,929 9,272 3,657 - 27,528 483 6,335 3,541 3,132 6,426 636 - 3,302 - 964 641 1,132 937	14 87,018 - 2020 12,473 8,953 3,520 - 24,758 461 6,138 3,336 3,038 4,425 627 - 3,186 - 930 618 1,092	20 89,055 - 2019 12,115 8,655 3,461 - 26,285 458 6,056 3,324 2,906 6,336 655 - 3,090 - 902 599 1,059	15 85,913 - 2018 11,530 8,155 8,155 3,375 - 25,943 447 5,947 3,230 2,782 6,635 615 - 2,956 - 863 573 1,013	18 92,44;
Other Farm Revenue + 0% Total Revenue 100% Change in Inventory Expenses Depreciation Machinery Buildings Quota econ. Accounting Overhead costs Land improvement Machinery Maintenance Buildings Maintenance Contract labour Diesel, Gasoline, Natural Gas Electricity Water Farm insurance Disability and accident insurance Farm taxes and duties Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Colf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	37 108,300 - 2022 14,227 10,317 3,911 - 32,620 512 6,896 3,650 3,038 10,432 731 - 3,478 - 1,016 675 1,192 1,000 - 9,947	5 91,947 - 2021 12,929 9,272 3,657 - 27,528 483 6,335 3,541 3,132 6,426 636 - 3,302 - 964 641 1,132 937	14 87,018 - 2020 12,473 8,953 3,520 - 24,758 461 6,138 3,336 3,038 4,425 627 - 3,186 - 930 618 1,092	20 89,055 - 2019 12,115 8,655 3,461 - 26,285 458 6,056 3,324 2,906 6,336 655 - 3,090 - 902 599 1,059	15 85,913 - 2018 11,530 8,155 8,155 3,375 - 25,943 447 5,947 3,230 2,782 6,635 615 - 2,956 - 863 573 1,013	18 92,44;
Total Revenue Change in Inventory Expenses Depreciation Machinery Buildings Quota econ. Accounting Overhead costs Land improvement Machinery Maintenance Buildings Maintenance Contract labour Diesel, Gasoline, Natural Gas Electricity Water Farm insurance Disability and accident insurance Farm taxes and duties Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	108,300 - 2022 14,227 10,317 3,911 - 32,620 512 6,896 3,650 3,038 10,432 731 - 3,478 - 1,016 675 1,192 1,000 - 9,947	91,947 - 2021 12,929 9,272 3,657 - 27,528 483 6,335 3,541 3,132 6,426 636 - 3,302 - 964 641 1,132 937	87,018 - 2020 12,473 8,953 3,520 - 24,758 461 6,138 3,336 3,038 4,425 627 - 3,186 - 930 618 1,092	89,055 - 2019 12,115 8,655 3,461 - 26,285 458 6,056 3,324 2,906 6,336 655 - 3,090 - 902 599 1,059	2018 11,530 8,155 3,375 - 25,943 447 5,947 3,230 2,782 6,635 615 - 2,956 - 863 573 1,013	92,447 5-yr. avj 12,655 9,076 3,588 - 27,422 472 6,273 3,416 2,979 6,855 - 3,200 - 938 622
Change in Inventory Expenses Depreciation Machinery Buildings Quota econ. Accounting Overhead costs Land improvement Machinery Maintenance Buildings Maintenance Contract labour Diesel, Gasoline, Natural Gas Electricity Water Farm insurance Disability and accident insurance Farm taxes and duties Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Colf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	2022 14,227 10,317 3,911 - 32,620 512 6,896 3,650 3,038 10,432 731 - 3,478 - 1,016 675 1,192 1,000 - 9,947	2021 12,929 9,272 3,657 - 27,528 483 6,335 3,541 3,132 6,426 636 - 3,302 - 964 641 1,132 937	2020 12,473 8,953 3,520 - 24,758 461 6,138 3,336 3,038 4,425 627 - 3,186 - 930 618 1,092	2019 12,115 8,655 3,461 - 26,285 458 6,056 3,324 2,906 6,336 655 - 3,090 - 902 599 1,059	2018 11,530 8,155 8,155 3,375 - 25,943 447 5,947 3,230 2,782 6,635 615 - 2,956 - 863 573 1,013	5-yr. av ₁ 12,655 9,076 3,583 - 27,422 472 6,274 3,411 2,975 6,855 - 3,200 - 933 625
Expenses Depreciation Machinery Buildings Quota econ. Accounting Overhead costs Land improvement Machinery Maintenance Buildings Maintenance Contract labour Diesel, Gasoline, Natural Gas Electricity Water Farm insurance Disability and accident insurance Farmilaxes and duties Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	2022 14,227 10,317 3,911 - 32,620 512 6,896 3,650 3,038 10,432 731 - 3,478 - 1,016 675 1,192 1,000 - 9,947	2021 12,929 9,272 3,657 - 27,528 483 6,335 3,541 3,132 6,426 636 - 3,302 - 964 641 1,132 937	2020 12,473 8,953 3,520 - 24,758 461 6,138 3,336 3,038 4,425 627 - 3,186 - 930 618 1,092	2019 12,115 8,655 3,461 - 26,285 458 6,056 3,324 2,906 6,336 655 - 3,090 - 902 599 1,059	2018 11,530 8,155 3,375 - 25,943 447 5,947 3,230 2,782 6,635 615 - 2,956 - 863 573 1,013	5-yr. av ₁ 12,655 9,076 3,585 - 27,422 472 6,274 3,410 2,975 6,855 - 3,200 - 933 625
Depreciation Machinery Buildings Quota econ. Accounting Overhead costs Land improvement Machinery Maintenance Buildings Maintenance Contract labour Diesel, Gasoline, Natural Gas Electricity Water Farm insurance Disability and accident insurance Farm taxes and duties Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	14,227 10,317 3,911 - 32,620 512 6,896 3,650 3,038 10,432 731 - 3,478 - 1,016 675 1,192 1,000 - 9,947	12,929 9,272 3,657 - 27,528 483 6,335 3,541 3,132 6,426 636 - 3,302 - 964 641 1,132 937	12,473 8,953 3,520 - 24,758 461 6,138 3,336 3,038 4,425 627 - 3,186 - 930 618 1,092	12,115 8,655 3,461 - 26,285 458 6,056 3,324 2,906 6,336 655 - 3,090 - 902 599 1,059	11,530 8,155 3,375 - 25,943 447 5,947 3,230 2,782 6,635 615 - 2,956 - 863 573 1,013	12,655 9,070 3,585 - 27,427 477 6,274 3,411 2,975 6,855 - 3,200 - 933 625
Machinery Buildings Quota econ. Accounting Overhead costs Land improvement Machinery Maintenance Buildings Maintenance Contract labour Diesel, Gasoline, Natural Gas Electricity Water Farm insurance Disability and accident insurance Farm taxes and duties Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	10,317 3,911 - 32,620 512 6,896 3,650 3,038 10,432 731 - 3,478 - 1,016 675 1,192 1,000	9,272 3,657 - 27,528 483 6,335 3,541 3,132 6,426 636 - 3,302 - 964 641 1,132 937	8,953 3,520 - 24,758 461 6,138 3,336 3,038 4,425 627 - 3,186 - 930 618 1,092	8,655 3,461 - 26,285 458 6,056 3,324 2,906 6,336 655 - 3,090 - 902 599 1,059	8,155 3,375 - 25,943 447 5,947 3,230 2,782 6,635 615 - 2,956 - 863 573 1,013	9,076 3,583 - 27,42; 47; 6,274 3,416 2,975 6,85; - 3,200; - 933 62;
Buildings Quota econ. Accounting Overhead costs Land improvement Machinery Maintenance Buildings Maintenance Contract labour Diesel, Gasoline, Natural Gas Electricity Water Farm insurance Disability and accident insurance Farm taxes and duties Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	3,911 - 32,620 512 6,896 3,650 3,038 10,432 731 - 3,478 - 1,016 675 1,192 1,000 - 9,947	3,657 - 27,528 483 6,335 3,541 3,132 6,426 636 - 3,302 - 964 641 1,132 937	3,520 - 24,758 461 6,138 3,336 3,038 4,425 627 - 3,186 - 930 618 1,092	3,461 - 26,285 458 6,056 3,324 2,906 6,336 655 - 3,090 - 902 599 1,059	3,375 - 25,943 447 5,947 3,230 2,782 6,635 615 - 2,956 - 863 573 1,013	3,585 - 27,427 472 6,274 3,416 2,975 6,851 - 3,202 - 935 621
Quota econ. Accounting Overhead costs Land improvement Machinery Maintenance Buildings Maintenance Contract labour Diesel, Gasoline, Natural Gas Electricity Water Farm insurance Disability and accident insurance Farm taxes and duties Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	32,620 512 6,896 3,650 3,038 10,432 731 - 3,478 - 1,016 675 1,192 1,000 - 9,947	27,528 483 6,335 3,541 3,132 6,426 636 - 3,302 - 964 641 1,132 937	24,758 461 6,138 3,336 3,038 4,425 627 - 3,186 - 930 618 1,092	26,285 458 6,056 3,324 2,906 6,336 655 - 3,090 - 902 599 1,059	25,943 447 5,947 3,230 2,782 6,635 615 - 2,956 - 863 573 1,013	- 27,427 477 6,274 3,416 2,979 6,851 653 - 3,202 - 935 621
Overhead costs Land improvement Machinery Maintenance Buildings Maintenance Contract labour Diesel, Gasoline, Natural Gas Electricity Water Farm insurance Disability and accident insurance Farm taxes and duties Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	32,620 512 6,896 3,650 3,038 10,432 731 - 3,478 - 1,016 675 1,192 1,000 - 9,947	483 6,335 3,541 3,132 6,426 636 - 3,302 - 964 641 1,132	24,758 461 6,138 3,336 3,038 4,425 627 - 3,186 - 930 618 1,092	26,285 458 6,056 3,324 2,906 6,336 655 - 3,090 - 902 599 1,059	25,943 447 5,947 3,230 2,782 6,635 615 - 2,956 - 863 573 1,013	472 6,274 3,416 2,975 6,852 - 3,202 - 935 622
Land improvement Machinery Maintenance Buildings Maintenance Contract labour Diesel, Gasoline, Natural Gas Electricity Water Farm insurance Disability and accident insurance Farm taxes and duties Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	512 6,896 3,650 3,038 10,432 731 - 3,478 - 1,016 675 1,192 1,000 - 9,947	483 6,335 3,541 3,132 6,426 636 - 3,302 - 964 641 1,132	461 6,138 3,336 3,038 4,425 627 - 3,186 - 930 618 1,092	458 6,056 3,324 2,906 6,336 655 - 3,090 - 902 599 1,059	447 5,947 3,230 2,782 6,635 615 - 2,956 - 863 573 1,013	472 6,274 3,416 2,975 6,852 - 3,202 - 935 622
Machinery Maintenance Buildings Maintenance Contract labour Diesel, Gasoline, Natural Gas Electricity Water Farm insurance Disability and accident insurance Farm taxes and duties Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	6,896 3,650 3,038 10,432 731 - 3,478 - 1,016 675 1,192 1,000 - 9,947	6,335 3,541 3,132 6,426 636 - 3,302 - 964 641 1,132	6,138 3,336 3,038 4,425 627 - 3,186 - 930 618 1,092	6,056 3,324 2,906 6,336 655 - 3,090 - 902 599 1,059	5,947 3,230 2,782 6,635 615 - 2,956 - 863 573 1,013	6,274 3,416 2,979 6,852 - 3,202 - 935 622
Buildings Maintenance Contract labour Diesel, Gasoline, Natural Gas Electricity Water Farm insurance Disability and accident insurance Farm taxes and duties Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	3,650 3,038 10,432 731 - 3,478 - 1,016 675 1,192 1,000 - 9,947	3,541 3,132 6,426 636 - 3,302 - 964 641 1,132	3,336 3,038 4,425 627 - 3,186 - 930 618 1,092	3,324 2,906 6,336 655 - 3,090 - 902 599 1,059	3,230 2,782 6,635 615 - 2,956 - 863 573 1,013	3,416 2,979 6,853 - 3,202 - 933 622
Contract labour Diesel, Gasoline, Natural Gas Electricity Water Farm insurance Disability and accident insurance Farm taxes and duties Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	3,038 10,432 731 - 3,478 - 1,016 675 1,192 1,000 - 9,947	3,132 6,426 636 - 3,302 - 964 641 1,132 937	3,038 4,425 627 - 3,186 - 930 618 1,092	2,906 6,336 655 - 3,090 - 902 599 1,059	2,782 6,635 615 - 2,956 - 863 573 1,013	2,979 6,853 - 3,202 - 935 622
Diesel, Gasoline, Natural Gas Electricity Water Farm insurance Disability and accident insurance Farm taxes and duties Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	10,432 731 - 3,478 - 1,016 675 1,192 1,000 - 9,947	6,426 636 - 3,302 - 964 641 1,132	4,425 627 - 3,186 - 930 618 1,092	6,336 655 - 3,090 - 902 599 1,059	6,635 615 - 2,956 - 863 573 1,013	6,853 653 - 3,202 - 933 623
Electricity Water Farm insurance Disability and accident insurance Farm taxes and duties Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	731 - 3,478 - 1,016 675 1,192 1,000 - 9,947	636 - 3,302 - 964 641 1,132 937	627 - 3,186 - 930 618 1,092	655 - 3,090 - 902 599 1,059	615 - 2,956 - 863 573 1,013	653 - 3,202 - 935 623
Water Farm insurance Disability and accident insurance Farm taxes and duties Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	3,478 - 1,016 675 1,192 1,000 - 9,947	- 3,302 - 964 641 1,132 937	- 3,186 - 930 618 1,092	- 3,090 - 902 599 1,059	- 2,956 - 863 573 1,013	- 3,202 - 935 622
Farm insurance Disability and accident insurance Farm taxes and duties Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	1,016 675 1,192 1,000	964 641 1,132 937	930 618 1,092	902 599 1,059	863 573 1,013	935 621
Disability and accident insurance Farm taxes and duties Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	1,016 675 1,192 1,000	964 641 1,132 937	930 618 1,092	902 599 1,059	863 573 1,013	935 622
Farm taxes and duties Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	675 1,192 1,000 - 9,947	964 641 1,132 937	618 1,092	599 1,059	863 573 1,013	621
Advisor costs Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	675 1,192 1,000 - 9,947	641 1,132 937	618 1,092	599 1,059	573 1,013	621
Accountant & legal fees Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	1,192 1,000 - 9,947	1,132 937	1,092	1,059	1,013	
Phone & utilities Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	1,000 - 9,947	937				1,097
Other overhead costs Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	9,947		906	900		
Wages, rent and interest payments Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	9,947			300	883	925
Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	•	-	-	-	-	-
Paid Labour Total land rents Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	•	10,382	9,284	8,976	8,422	9,402
Total Interest on debt Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	6,320	6,000	5,788	5,615	5,370	5,819
Cow-Calf Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	-	-	-	, -	, -	· -
Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	3,628	4,382	3,496	3,361	3,052	3,584
Animal purchases Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	25 202	24 120	22 226	22 202	22.012	22 01
Purchased feed Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	25,392	24,139	23,326	23,202	23,012	23,814
Other fixed and var. costs * Retained Ownership Animal purchases Purchased feed	15,650 3,824	15,650 2,983	15,650 2,406	15,650 2,242	15,650	15,650 2,718
Retained Ownership Animal purchases Purchased feed	5,918	5,506	5,271	5,309	2,136 5,225	5,446
Animal purchases Purchased feed	3,518	3,300	3,271	3,309	3,223	3,440
Purchased feed	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
Crop and forage	5,337	4,751	4,444	4,501	4,387	4,684
Seed	372	355	344	363	333	353
Fertilizer	2,463	2,053	1,833	1,887	1,846	2,016
Herbicide Fungicide & Insecticide	-	-	-	-	-	-
Irrigation	-	-	-	-	-	-
Contract labour	-	-	-	-	-	-
Fuel costs (crop & forage)	-	-	-	-	-	-
Other crop and forage	2,502	2,343	2,267	2,250	2,207	2,314
Total Farm Costs (excludes unpaid labour)	87,524	79,729	74,286	75,078	73,294	77,982
Cash Costs (Total Farm Costs - Depreciation)	73,296	66,799	61,812	62,963	61,764	65,327
Depreciation & Opportunity Costs (including unpaid labour)	52,272	50,974	50,518	50,160	49,575	50,700
Total Economic Costs (cash, depr, opportunity)	125,568	117,774	112,330	113,123	111,339	116,027
Profits			2020	2019	2018	5-yr. av
Net Income (Total Revenue - Total Farm Costs + Change in Inv.)	2022	2021 12,219	12,732	13,977	12,619	14,465

⁺ 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 Wintered)	2022	2021	2020	2019	2018	5 yr. avg.
Cows Wintered *	60	60	60	60	60	60
Average male and female calf price (\$/head)	1,215	1,044	1,015	998	991	1,052
REVENUE						
Cow Calf	1,804	1,532	1,450	1,484	1,432	1,540
Cull animals and slaughter receipts	177	140	140	141	124	144
Breeding livestock receipts	-	-	-	-	-	-
Calf Sales and transfer to retained ownership enterprise	1,093	940	913	898	892	947
Government payments	533.9	452.8	397.3	445.1	416.1	449.0
Other returns	-	-	-	-	-	-
Total Cow-Calf Revenue	1,804	1,532	1,450	1,484	1,432	1,540
VARIABLE COSTS						
Animal purchases	260.8	260.8	260.8	260.8	260.8	261
Feed (purchase feed, fertiliser, seed, pesticides)	161.2	136.9	121.8	120.0	116.2	131
Machinery (maintenance, depreciation, contractor)	337.5	312.3	302.2	293.6	281.4	305
Fuel, energy, lubricants, water	186.0	117.7	84.2	116.5	120.8	125
Vet & medicine	34.4	32.3	30.9	30.0	28.8	31
Other inputs cow calf enterprise	107.5	100.3	96.4	97.1	95.5	99
Labour						
Paid Labour	105.3	100.0	96.5	93.6	89.5	97
Unpaid Labour	739.8	702.3	677.5	657.3	628.6	681
Total Variable Costs	1,932.5	1,762.7	1,670.3	1,668.9	1,621.7	1,731
CAPITAL COSTS						
Insurance, taxes	79.5	75.4	72.8	70.6	67.5	73
Buildings (maintenance, depreciation)	126.0	120.0	114.3	113.1	110.1	117
Land Cost	-	-	-	-	-	
Rented Land	-	-	-	-	-	-
Own Land	208.1	195.0	184.1	176.8	170.7	187
Capital Costs	-	-	-	-	-	
Liabilities	60.4	73.0	58.3	56.0	50.9	60
Own capital	97.1	99.6	96.9	94.5	92.2	96
Total Capital Costs	571.2	563.0	526.4	511.0	491.4	533
COSTS						
Cash Costs	1,221.6	1,113.3	1,030.2	1,049.4	1,029.4	1,089
Depreciation Costs	237.1	215.5	207.9	201.9	192.2	211
Opportunity Costs	1,045.0	996.9	958.6	928.6	891.5	964
Total Production Costs	2,503.7	2,325.7	2,196.7	2,179.9	2,113.1	2,264
Profits	2022	2021	2020	2019	2018	5-yr. avg.
Short-term profit (cash costs)	582.8	419.1	419.9	434.5	402.2	452
Medium-term profit (cash + depreciation)	345.7	203.6	212.0	232.6	210.1	241
Long-term profit (cash + depreciation + opportunity) *Model Maintains a stable herd size	(699.3)	(793.3)	(746.6)	(695.9)	(681.4)	(723)

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. Produce rs 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 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 redet. 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.

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 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, 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.

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)	2022	2021	2020	2019	2018	5 yr. avg.
Pounds Weaned	29,225	29,225	29,225	29,225	29,225	29,225
Average male and female weaning weight (lbs)	541	541	541	541	541	
Average male and female calf price at weaning (\$/lb)	2.24	1.93	1.87	1.84	1.83	1.94
REVENUE						
Cow Calf Operation	3.70	3.15	2.98	3.05	2.94	3.16
Cull animals and slaughter receipts	0.36	0.29	0.29	0.29	0.25	0.30
Breeding livestock receipts	-	-	-	-	-	-
Calf Sales and transfer to retained ownership enterprise	2.24	1.93	1.87	1.84	1.83	1.94
Government payments	1.10	0.93	0.82	0.91	0.85	0.92
Other returns	-	-	-	-	-	-
Total Cow-Calf Revenue	3.70	3.15	2.98	3.05	2.94	3.16
VARIABLE COSTS						
Animal purchases	0.54	0.54	0.54	0.54	0.54	0.54
Feed (purchase feed, fertiliser, seed, pesticides)	0.33	0.28	0.25	0.25	0.24	0.27
Machinery (maintenance, depreciation, contractor)	0.69	0.64	0.62	0.60	0.58	0.63
Fuel, energy, lubricants, water	0.38	0.24	0.17	0.24	0.25	0.26
Vet & medicine	0.07	0.07	0.06	0.06	0.06	0.06
Other inputs cow calf enterprise	0.22	0.21	0.20	0.20	0.20	0.20
Labour						
Paid Labour	0.22	0.21	0.20	0.19	0.18	0.20
Unpaid Labour	1.52	1.44	1.39	1.35	1.29	1.40
Total Variable Costs	4.0	3.6	3.4	3.4	3.3	3.6
CAPITAL COSTS						
Insurance, taxes	0.16	0.15	0.15	0.14	0.14	0.15
Buildings (maintenance, depreciation)	0.26	0.25	0.23	0.23	0.23	0.24
Land Cost						
Rented Land	-	-	-	-	-	-
Owned Land	0.43	0.40	0.38	0.36	0.35	0.38
Capital Costs						
Liabilities	0.12	0.15	0.12	0.11	0.10	0.12
Own capital	0.20	0.20	0.20	0.19	0.19	0.20
Total Capital Costs	1.2	1.2	1.1	1.0	1.0	1.1
COSTS						
Cash Costs	2.51	2.29	2.12	2.15	2.11	2.24
Depreciation Costs	0.49	0.44	0.43	0.41	0.39	0.43
Opportunity Costs	2.15	2.05	1.97	1.91	1.83	1.98
Total Production Costs	5.14	4.77	4.51	4.48	4.34	4.65
Profits	2022	2021	2020	2019	2018	5-yr. avg.
Short-term profit (cash costs)	1.20	0.86	0.86	0.89	0.83	0.93
Medium-term profit (cash + depreciation)	0.71	0.42	0.44	0.48	0.43	0.49
Long-term profit (cash + depreciation + opportunity)	(1.44)	(1.63)	(1.53)	(1.43)	(1.40)	(1.49)

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 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. Produce rs who want a cash flow analysis typically use a calendar or

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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 feed" 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)

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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.

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Unit Reported

Often cow-calf COP is expressed as dollars per cow wintered (S/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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