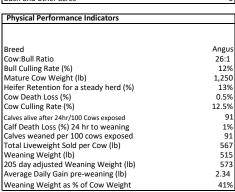
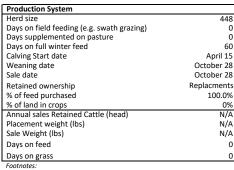
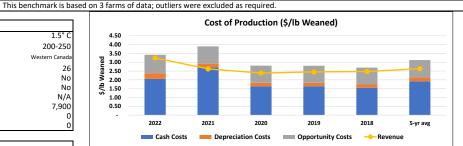


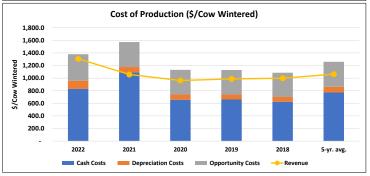
Farm Characteristics	CA-SKAB-1
Farm Description	A year-round grazing cow-calf operation with 448 cow, utilizing purchased feed to supplement on pasture.
Winter Feeding Ration	60 days supplemented on pasture with hay (28 lb)
(lbs/cow/day as fed)	
Retained Ownership/Replacement Ration	Replacements: 180 days supplemented on pasture with hay (14 lb) and grain (2 lb)
(lb/head/day as fed)	
Disclaimer:	This benchmark is based on 3 farms of data; outliers were excluded as required.

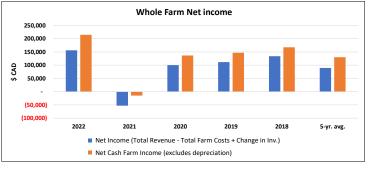
Environment	
Average Annual Temperature	1.5° C
Average Annual Precipitation (mm)	200-250
Ecoregion	Western Canada
Stocking Rate (Animal Unit days per acre)	26
Fertilize Hay (yes/no)	No
Fertilize Pasture (yes/no)	No
Typical Hay Yield (tonnes/acre)	N/A
Grassland Acres (owned+rented)	7,900
Crop Acres (includes hay) (owned+rented)	0
Bush and other acres	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)

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**

Overview							
Operation Maturity Herd Size Paid Labour (livestock only) (hours) Unpaid Labour (livestock only) (hours)	Mature 448 1,820 2,594	Beef Animals	Sold from Retaine	N/A			
Average wages - paid and unpaid (\$/hr)  Revenue	25.44	2022	2021	2020	2019	2018	5-yr. avg
Market Revenue	5-yr avg	540,645	428,873	430,925	442,325	446,827	457,919
Cow-Calf	96%	540,645	428,873	430,925	442,325	446,827	457,919
Cash Crops	0%	-	-	-	-	-	-
Retained Ownership	0%	-	-	-	-	-	-
Government Payments	4%	44,800	44,800	-	-	-	17,920
Other Farm Revenue +	0%	32		191	357	413	199
Total Revenue Change in Inventory	100%	585,477	473,673	431,116	442,682	447,240	476,038
Expenses		2022	2021	2020	2019	2018	5-yr. avg
Depreciation		58,636	38,111	36,761	35,737	34,073	40,664
Machinery		44,935	25,299	24,428	23,613	22,250	28,105
Buildings		13,701	12,811	12,333	12,123	11,824	12,559
Quota econ. Accounting		-	-	-	-	-	-
-		407.202	02.504	02.724	05.052		00.555
Overhead costs		107,263	92,594	83,734	85,953	83,917	90,692
Land improvement		7,499	7,160	6,754	6,927	6,823	7,033
Machinery Maintenance		11,431	11,387	10,459	10,874	10,698	10,970
Buildings Maintenance		8,016	7,349	7,115	7,202	7,103	7,357
Contract labour Diesel, Gasoline, Natural Gas		- 15,187	10,298	- 7,167	10,126	10,861	10,728
Electricity		15,692	9,518	7,167	6,852	6,281	9,069
Water		15,052	5,510	7,002	0,032	0,281	5,005
Farm insurance		16,610	15,770	15,213	14,759	14,115	15,293
Disability and accident insurance		-	-				,
Farm taxes and duties		24,060	22,842	22,035	21,377	20,445	22,152
Advisor costs		-	· -	· -	-	-	-
Accountant & legal fees		4,445	4,220	4,071	3,949	3,777	4,092
Phone & utilities		2,467	2,310	2,235	2,219	2,176	2,281
Other overhead costs		1,856	1,738	1,682	1,670	1,638	1,717
Wages, rent and interest payments		92,302	91,875	85,629	82,782	79,393	86,396
Paid Labour		49,836	47,315	45,643	44,281	42,348	45,885
Total land rents		23,083	23,083	23,083	23,083	23,083	23,083
Total Interest on debt		19,383	21,477	16,903	15,418	13,962	17,429
Cow-Calf		171,233	304,147	124,998	126,751	116,055	168,637
Animal purchases		11,420	11,420	11,420	11,420	11,420	11,420
Purchased feed		133,530	268,297	90,273	92,238	82,257	133,319
Other fixed and var. costs *		26,283	24,430	23,304	23,093	22,378	23,898
Retained Ownership			_	_	_	_	
Animal purchases		-	-	-	-	-	_
Purchased feed		-	-	-	-	-	-
Other fixed and var. costs *		-	-	-	-	-	-
Crop and forage		-	-	_	-	_	-
Seed		-	-	-	-	-	-
Fertilizer Herbiside		-	-	-	-	-	-
Herbicide Fungicide & Insecticide		-	-	-	-	-	-
Irrigation		-	-	-	-	-	-
Contract labour		-	-	-	-	-	-
Fuel costs (crop & forage)		-	-	-	-	-	-
Other crop and forage  Total Farm Costs (excludes unpaid labour)		429,434	526,726	331,121	331,223	313,438	386,388
Cash Costs (Total Farm Costs - Depreciation	n)		488,616				
Depreciation & Opportunity Costs (including	•	370,798 124,625	488,616 104,100	294,360 102,750	295,486 101,726	279,365 100,063	345,725 106,653
Total Economic Costs (cash, depr, opportu		495,423	592,716	•		379,427	452,378
Profits	incy)	2022	2021	397,110 <b>2020</b>	397,212 <b>2019</b>	2018	452,378 5-yr. avg
Net Income (Total Revenue - Total Farm Costs +	Change in Inv 1	156,043	(53,053)	99,995	111,459	133,802	89,649
							05.049

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





<sup>\*</sup>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 *	448	448	448	448	448	448
Average male and female calf price (\$/head)	1,298	1,042	1,037	1,072	1,085	1,107
REVENUE						
Cow Calf	1,307	1,057	962	987	997	1,062
Cull animals and slaughter receipts	180	133	143	142	141	148
Breeding livestock receipts	-	-	-	-	-	-
Calf Sales and transfer to retained ownership enterprise	1,027	824	819	846	857	875
Government payments	100.0	100.0	-	-	-	40.0
Other returns	-	-	-	-	-	-
Total Cow-Calf Revenue	1,307	1,057	962	987	997	1,062
VARIABLE COSTS						
Animal purchases	25.5	25.5	25.5	25.5	25.5	25
Feed (purchase feed, fertiliser, seed, pesticides)	314.8	614.9	216.6	221.3	198.8	313
Machinery (maintenance, depreciation, contractor)	125.8	81.9	77.9	77.0	73.5	87
Fuel, energy, lubricants, water	68.9	44.2	31.6	37.9	38.3	44
Vet & medicine	19.0	18.0	17.4	16.9	16.1	17
Other inputs cow calf enterprise	45.3	41.7	39.7	39.8	38.9	41
Labour						
Paid Labour	111.2	105.6	101.9	98.8	94.5	102
Unpaid Labour	136.0	129.1	124.5	120.8	115.6	125
Total Variable Costs	846.6	1,061.0	635.1	638.1	601.3	756
CAPITAL COSTS						
Insurance, taxes	104.7	99.4	95.9	93.0	89.0	96
Buildings (maintenance, depreciation)	48.5	45.0	43.4	43.1	42.2	44
Land Cost	-	-	-	-	-	
Rented Land	51.5	51.5	51.5	51.5	51.5	52
Own Land	245.9	245.9	245.9	245.9	245.9	246
Capital Costs	-	-	-	-	-	
Liabilities	43.3	47.9	37.7	34.4	31.1	39
Own capital	39.0	21.4	21.7	23.2	24.6	26
Total Capital Costs	532.9	511.2	496.1	491.1	484.4	503
COSTS						
Cash Costs	827.7	1,090.7	657.0	659.5	623.6	772
Depreciation Costs	130.9	85.1	82.1	79.8	76.1	91
Opportunity Costs	420.9	396.4	392.1	389.9	386.1	397
Total Production Costs	1,379.5	1,572.1	1,131.2	1,129.2	1,085.7	1,260
Profits	2022	2021	2020	2019	2018	5-yr. avg.
Short-term profit (cash costs)	479.1	(33.4)	304.8	327.8	373.8	290
Medium-term profit (cash + depreciation)	348.2	(118.4)	222.8	248.0	297.8	200
Long-term profit (cash + depreciation + opportunity)	(72.7)	(514.8)	(169.3)	(141.9)	(88.3)	(197)
*Model Maintains a stable herd size						

\*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. 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 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

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	180,599	180,599	180,599	180,599	180,599	180,599
Average male and female weaning weight (lbs)	515	515	515	515	515	
Average male and female calf price at weaning (\$/lb)	2.52	2.02	2.01	2.08	2.11	2.15
REVENUE						
Cow Calf Operation	3.24	2.62	2.39	2.45	2.47	2.63
Cull animals and slaughter receipts	0.45	0.33	0.35	0.35	0.35	0.37
Breeding livestock receipts	-	-	-	-	-	-
Calf Sales and transfer to retained ownership enterprise	2.55	2.04	2.03	2.10	2.12	2.17
Government payments	0.25	0.25	-	-	-	0.10
Other returns	-	-	-	-	-	-
Total Cow-Calf Revenue	3.24	2.62	2.39	2.45	2.47	2.63
VARIABLE COSTS						
Animal purchases	0.06	0.06	0.06	0.06	0.06	0.06
Feed (purchase feed, fertiliser, seed, pesticides)	0.78	1.53	0.54	0.55	0.49	0.78
Machinery (maintenance, depreciation, contractor)	0.31	0.20	0.19	0.19	0.18	0.22
Fuel, energy, lubricants, water	0.17	0.11	0.08	0.09	0.09	0.11
Vet & medicine	0.05	0.04	0.04	0.04	0.04	0.04
Other inputs cow calf enterprise	0.11	0.10	0.10	0.10	0.10	0.10
Labour						
Paid Labour	0.28	0.26	0.25	0.25	0.23	0.25
Unpaid Labour	0.34	0.32	0.31	0.30	0.29	0.31
Total Variable Costs	2.1	2.6	1.6	1.6	1.5	1.9
CAPITAL COSTS						
Insurance, taxes	0.26	0.25	0.24	0.23	0.22	0.24
Buildings (maintenance, depreciation)	0.12	0.11	0.11	0.11	0.10	0.11
Land Cost						
Rented Land	0.13	0.13	0.13	0.13	0.13	0.13
Owned Land	0.61	0.61	0.61	0.61	0.61	0.61
Capital Costs						
Liabilities	0.11	0.12	0.09	0.09	0.08	0.10
Own capital	0.10	0.05	0.05	0.06	0.06	0.06
Total Capital Costs	1.3	1.3	1.2	1.2	1.2	1.2
COSTS						
Cash Costs	2.05	2.71	1.63	1.64	1.55	1.91
Depreciation Costs	0.32	0.21	0.20	0.20	0.19	0.23
Opportunity Costs	1.04	0.98	0.97	0.97	0.96	0.99
Total Production Costs	3.42	3.90	2.81	2.80	2.69	3.12
Profits	2022	2021	2020	2019	2018	5-yr. avg.
Short-term profit (cash costs)	1.19	(0.08)	0.76	0.81	0.93	0.72
Medium-term profit (cash + depreciation)	0.86	(0.29)	0.55	0.62	0.74	0.50
Long-term profit (cash + depreciation + opportunity)	(0.18)	(1.28)	(0.42)	(0.35)	(0.22)	(0.49)

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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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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

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