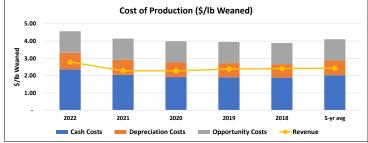


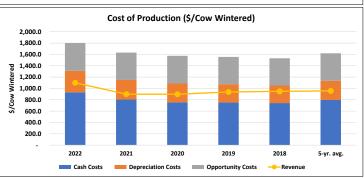
Farm Characteristics	CA-BC-1
Farm Dannistian	A cow-calf operation producing homegrown hay on irrigation land, located in the rangelands and fruit producing region of the highly
Farm Description	populated Okanagan.
Winter Feeding Ration	150 days on homegrown hay/haylage (25 lb dry matter), protein tub (1 lb) for 125 days throughout winter, and 70 g trace mineral and
(lbs/cow/day as fed)	salt
Retained Ownership/Replacement Ration	180 days of free choice good quality hay (17.5 lb) and alfalfa pellets (2.3 lb) with mineral and salt year round
(lb/head/day as fed)	
Disclaimer:	This benchmark is based on 3 farms of data; outliers were excluded as required.

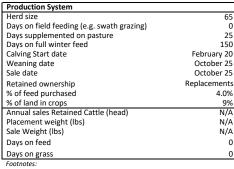
Environment	
Average Annual Temperature	6°C
Average Annual Precipitation (mm)	250-300 mm
Ecoregion	Southern Interior
Stocking Rate (Animal Unit days per acre)	22
Fertilize Hay (yes/no)	Yes
Fertilize Pasture (yes/no)	No
Typical Hay Yield (tonnes/acre)	3.0
Grassland Acres (owned+rented)	757
Crop Acres (includes hay) (owned+rented)	74
Bush and other acres	0

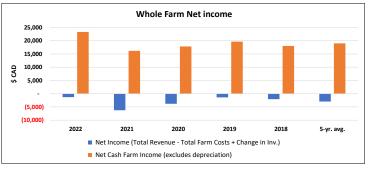
6°C	
50-300 mm	
uthern Interior	
22	
Yes	
No	
3.0	
757	
74	
0	



Physical Performance Indicators	
Breed	Angus
	Angus
Cow:Bull Ratio	25:1
Bull Culling Rate (%)	18%
Mature Cow Weight (lb)	1,200
Heifer Retention for a steady herd (%)	14%
Cow Death Loss (%)	1.6%
Cow Culling Rate (%)	12.5%
Calves alive after 24hr/100 Cows exposed	88
Calf Death Loss (%) 24 hr to weaning	6%
Calves weaned per 100 cows exposed	82
Total Liveweight Sold per Cow (lb)	569
Weaning Weight (lb)	594
205 day adjusted Weaning Weight (lb)	534
Average Daily Gain pre-weaning (lb)	2.23
Weaning Weight as % of Cow Weight	49%







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	Mature	Dané Animala	Cald fram Datains	d O	N1/A		
Herd Size Paid Labour (livestock only) (hours)	65	Beet Animais	Sold from Retaine	a Ownersnip	N/A		
Unpaid Labour (livestock only) (hours)							
Average wages - paid and unpaid (\$/hr)	22.00						
Revenue		2022	2021	2020	2019	2018	5-yr. av
Market Revenue	5-yr avg	93,655	75,819	73,070	74,609	71,675	77,766
Cow-Calf Cash Crops	80% 20%	71,522 22,133	58,420 17,400	58,350 14,721	60,960 13,650	61,697 9,978	62,190 15,570
Retained Ownership	0%	-	-	-	-	-	-
Government Payments	0%	-	-	-	-	-	-
Other Farm Revenue +	0%	2	0	1	1	2	1
Total Revenue	100%	93,657	75,820	73,071	74,610	71,677	77,767
Change in Inventory		-	-	-	-	-	-
Expenses		2022	2021	2020	2019	2018	5-yr. avg
Depreciation		24,611	22,437	21,640	21,047	20,087	21,964
Machinery		15,883	14,275	13,783	13,324	12,554	13,964
Buildings		8,728	8,161	7,857	7,723	7,532	8,000
Quota econ. Accounting		-	-	-	-	-	-
Overhead costs		35,731	30,232	28,332	28,589	28,002	30,17
Land improvement		1,248	1,182	1,137	1,135	1,101	1,16
Machinery Maintenance		10,924	10,704	10,530	10,348	9,921	10,486
Buildings Maintenance		1,737	1,594	1,500	1,521	1,491	1,569
Contract labour		-	-	-	-	-	-
Diesel, Gasoline, Natural Gas		9,209	5,412	4,442	5,071	5,345	5,896
Electricity		1,793	1,088	800	783	718	1,036
Water		215	215	215	215	215	215
Farm insurance Disability and accident insurance		3,974	3,773 -	3,640	3,531	3,377	3,659
Farm taxes and duties		942	895	863	837	801	868
Advisor costs		36	35	33	32	31	33
Accountant & legal fees		1,041	988	953	925	884	958
Phone & utilities		3,300	3,090	2,990	2,968	2,911	3,052
Other overhead costs		1,312	1,255	1,229	1,223	1,207	1,245
Wages, rent and interest payments		1,056	1,246	1,438	1,257	986	1,196
Paid Labour		-	-	-	-	-	-
Total land rents		874	874	874	874	874	874
Total Interest on debt		182	372	564	383	112	322
		10 212	17.500	16 221	45 200	14.020	16.656
Cow-Calf Animal purchases		19,312 540	17,508 540	16,231 540	15,300 540	14,938 540	16,658 540
Purchased feed		9,193	8,677	8,219	7,765	7,803	8,332
Other fixed and var. costs *		9,579	8,291	7,472	6,995	6,595	7,786
		3,313	0,231	7,472	0,555	0,333	7,700
Retained Ownership Animal purchases		-	-	-	-	-	-
Purchased feed		-	_	_	-	-	_
Other fixed and var. costs *		-	-	-	-	-	-
Crop and forage		14,249	10,643	9,234	9,801	9,723	10,730
Seed Fertilizer		645 8 520	611	585 6 005	623	578 6.061	608
Herbicide		8,520 92	6,886 83	6,005 79	6,225 76	6,061 74	6,739 81
Fungicide & Insecticide		-	-		-	-	-
Irrigation		-	-	-	-	-	-
Contract labour Fuel costs (crop & forage)		4,620	- 2,715	- 2,229	2,544	2,682	2,958
Other crop and forage		372	348	337	334	328	344
Total Farm Costs (excludes unpaid labour)		94,959	82,066	76,875	75,994	73,736	80,726
Cash Costs (Total Farm Costs - Depreciation	n)	70,348	59,630	55,235	54,947	53,650	58,762
Depreciation & Opportunity Costs (including	ng unpaid labour)	44,048	41,874	41,077	40,484	39,524	41,40
Total Economic Costs (cash, depr, opportu	nity)	114,396	101,503	96,312	95,431	93,174	100,163
Profits		2022	2021	2020	2019	2018	5-yr. av
Net Income (Total Revenue - Total Farm Costs +	Change in Inv.)	(1,303)	(6,247)	(3,805)	(1,384)	(2,060)	(2,960
Net Cash Farm Income (excludes depreciation)	· ,	23,305	16,190	17,835	19,662	18,025	19,00

⁺ 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 *	65	65	65	65	65	65
Average male and female calf price (\$/head)	1,374	1,111	1,121	1,159	1,175	1,188
REVENUE						
Cow Calf	1,100	899	898	938	949	957
Cull animals and slaughter receipts	174	149	146	158	157	157
Breeding livestock receipts	-	-	-	-	-	-
Calf Sales and transfer to retained ownership enterprise	926	750	752	780	792	800
Government payments	-	-	-	-	-	-
Other returns	-	-	-	-	-	-
Total Cow-Calf Revenue	1,100	899	898	938	949	957
VARIABLE COSTS						
Animal purchases	8.0	8.3	8.3	8.3	8.3	8
Feed (purchase feed, fertiliser, seed, pesticides)	259.0	232.5	215.3	210.8	208.7	225
Machinery (maintenance, depreciation, contractor)	412.0	384.3	374.1	364.2	345.8	376
Fuel, energy, lubricants, water	193.0	116.5	97.1	109.5	117.3	127
Vet & medicine	53.0	49.0	43.9	37.0	33.2	43
Other inputs cow calf enterprise	131.0	117.1	112.3	113.2	113.8	117
Labour						
Paid Labour	-	-	-	-	-	-
Unpaid Labour	283.0	270.7	270.6	268.7	270.7	273
Total Variable Costs	1,339.0	1,178.4	1,121.6	1,111.6	1,097.9	1,170
CAPITAL COSTS						
Insurance, taxes	78.0	74.1	73.1	71.9	71.1	74
Buildings (maintenance, depreciation)	161.0	150.1	143.9	142.2	138.8	147
Land Cost	-	-	-	-	-	
Rented Land	13.0	13.0	13.0	13.0	13.0	13
Own Land	96.0	93.2	87.8	85.6	84.1	89
Capital Costs	-	-	-	-	-	
Liabilities	2.0	4.4	6.9	4.8	1.5	4
Own capital	112.0	119.6	128.7	126.7	125.9	123
Total Capital Costs	462.0	454.5	453.5	444.2	434.4	450
COSTS						
Cash Costs	931.0	804.2	755.0	751.2	742.6	797
Depreciation Costs	379.0	345.2	332.9	323.8	309.0	338
Opportunity Costs	491.0	483.5	487.1	480.9	480.7	485
Total Production Costs	1,801.0	1,632.9	1,575.1	1,555.9	1,532.3	1,619
Profits	2022	2021	2020	2019	2018	5-yr. avg.
Short-term profit (cash costs)	169.0	94.6	142.7	186.7	206.6	160
Medium-term profit (cash + depreciation)	(210.0)	(250.6)	(190.3)	(137.2)	(102.4)	(178)
Long-term profit (cash + depreciation + opportunity)	(701.0)	(734.1)	(677.4)	(618.0)	(583.1)	(663)
*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	25,639	25,637	25,637	25,637	25,637	25,638
Average male and female weaning weight (lbs)	593	594	594	594	594	
Average male and female calf price at weaning (\$/lb)	2.32	1.87	1.89	1.95	1.98	2.00
REVENUE						
Cow Calf Operation	2.79	2.28	2.28	2.38	2.41	2.43
Cull animals and slaughter receipts	0.44	0.38	0.37	0.40	0.40	0.40
Breeding livestock receipts	-	-	-	-	-	-
Calf Sales and transfer to retained ownership enterprise	2.35	1.90	1.91	1.98	2.01	2.03
Government payments	-	-	-	-	-	-
Other returns	-	-	-	-	-	-
Total Cow-Calf Revenue	2.79	2.28	2.28	2.38	2.41	2.43
VARIABLE COSTS						
Animal purchases	0.02	0.02	0.02	0.02	0.02	0.02
Feed (purchase feed, fertiliser, seed, pesticides)	0.66	0.59	0.55	0.53	0.53	0.57
Machinery (maintenance, depreciation, contractor)	1.04	0.97	0.95	0.92	0.88	0.95
Fuel, energy, lubricants, water	0.49	0.30	0.25	0.28	0.30	0.32
Vet & medicine	0.13	0.12	0.11	0.09	0.08	0.11
Other inputs cow calf enterprise	0.33	0.30	0.28	0.29	0.29	0.30
Labour						
Paid Labour	-	-	-	-	-	-
Unpaid Labour	0.72	0.69	0.69	0.68	0.69	0.69
Total Variable Costs	3.4	3.0	2.8	2.8	2.8	3.0
CAPITAL COSTS						
Insurance, taxes	0.20	0.19	0.19	0.18	0.18	0.19
Buildings (maintenance, depreciation)	0.41	0.38	0.36	0.36	0.35	0.37
Land Cost						
Rented Land	0.03	0.03	0.03	0.03	0.03	0.03
Owned Land	0.24	0.24	0.22	0.22	0.21	0.23
Capital Costs						
Liabilities	0.01	0.01	0.02	0.01	0.00	0.01
Own capital	0.28	0.30	0.33	0.32	0.32	0.31
Total Capital Costs	1.2	1.2	1.1	1.1	1.1	1.1
COSTS						
Cash Costs	2.36	2.04	1.91	1.90	1.88	2.02
Depreciation Costs	0.96	0.88	0.84	0.82	0.78	0.86
Opportunity Costs	1.24	1.23	1.23	1.22	1.22	1.23
Total Production Costs	4.57	4.14	3.99	3.94	3.88	4.11
Profits	2022	2021	2020	2019	2018	5-yr. avg.
Short-term profit (cash costs)	0.43	0.24	0.36	0.47	0.52	0.41
Medium-term profit (cash + depreciation)	(0.53)	(0.64)	(0.48)	(0.35)	(0.26)	(0.45)
Long-term profit (cash + depreciation + opportunity)	(1.78)	(1.86)	(1.72)	(1.57)	(1.48)	(1.68)

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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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Unit Reported

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