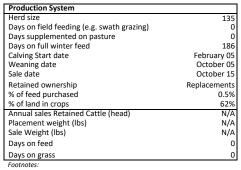
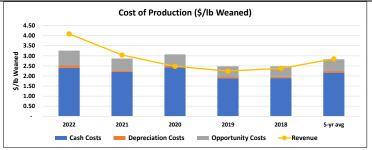


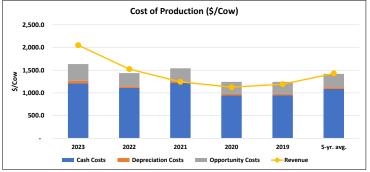
Farm Characteristics	CA-SK-6
Farm Description	A mixed cow-calf and cash crop operation utilizing predominantly homegrown feed in one of the most productive agricultural regions on the prairies.
Winter Feeding Ration (lbs/cow/day as fed)	186 days of predominantly cereal silage (35 lb)* and alfalfa hay (14 lb) fed TMR with custom mineral mix (100 g), with barley grain (4.5 lb) included for 90 days. *Total delivery dependent on dry matter of main silage ingredient (corn, barley, oat)
Retained Ownership/Replacement Ration (lb/head/day as fed)	186 days of predominantly cereal silage (24 lb)*, alfalfa hay (10 lb) and barley grain (4 lb) fed TMR with custom mineral mix (65 g).  *Total delivery dependent on dry matter of main silage ingredient (corn, barley, oat)
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.

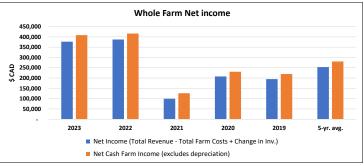
Environment			
Average Annual Temperature	1.5°C		
Average Annual Precipitation (mm)	400–500 mm		
Facustian .	Aspen Parkland		
Ecoregion	Aspen Parkianu		
Stocking Rate (Animal Unit days per acre)	29		
Fertilize Hay (yes/no)	Yes		
Fertilize Pasture (yes/no)	No		
Typical Hay Yield (tonnes/acre)	1.8		
Grassland Acres (owned+rented)	1,384		
Crop Acres (includes hay) (owned+rented)	2,268		
Bush and other acres	0		

Physical Performance Indicators	
Breed Cow:Bull Ratio Bull Culling Rate (%)	Angus, Simmental, Charolais 24:1 20%
Mature Cow Weight (lb) Heifer Retention for a steady herd (%) Cow Death Loss (%) Cow Culling Rate (%)	1,480 15% 1.3% 13.5%
Calves alive after 24hr/100 Cows exposed Calf Death Loss (%) 24 hr to weaning Calves weaned per 100 cows exposed Total Liveweight Sold per Cow (Ib) Weaning Weight (Ib)	92 3% 89 730 708
205 day adjusted Weaning Weight (lb) Average Daily Gain pre-weaning (lb) Weaning Weight as % of Cow Weight	645 2.73 48%









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 \* lana-term a



## Whole Farm Overview Page

Overview							
Operation Maturity Medium Herd Size 135 Paid Labour (livestock only) (hours) 746		Doof Animal	c Cald from Batains	d Ownership	N/A		
		Beer Animai	s Sold from Retaine	ea Ownership	N/A		
Unpaid Labour (livestock only) (hours)	597						
Average wages - paid and unpaid (\$/hr)	20.42						
Revenue		2023	2022	2021	2020	2019	5-yr. av
Market Revenue	5-yr avg	1,146,895	1,164,998	811,808	847,499	859,500	966,140
Cow-Calf Cash Crops	19% 79%	277,079	192,229	154,358	151,880	160,755	187,260
Retained Ownership	0%	869,816	972,770 -	657,449 -	695,619	698,745 -	778,880 -
Government Payments	1%	-	13,500	13,500	-	-	5,400
Other Farm Revenue +	1%	11,045	11,026	11,000	11,001	11,000	11,014
Total Revenue	100%	1,157,940	1,189,524	836,308	858,500	870,500	982,555
Change in Inventory		-	-	-	2,638	-	528
Expenses		2023	2022	2021	2020	2019	5-yr. av
Depreciation		31,994	28,952	26,527	25,575	24,927	27,595
Machinery		17,286	15,028	13,507	13,042	12,607	14,294
Buildings		14,708	13,923	13,019	12,533	12,320	13,30
Quota econ. Accounting		-	-	-	-	-	-
Overhead costs		107,009	110,512	94,915	83,823	88,591	96,970
Land improvement		4,665	4,563	4,474	4,218	4,234	4,43
Machinery Maintenance		14,731	14,788	15,498	14,234	14,167	14,683
Buildings Maintenance		3,062	2,926	2,687	2,601	2,634	2,782
Contract labour		8,384	8,660	8,222	7,931	7,694	8,178
Diesel, Gasoline, Natural Gas		25,837	32,336	22,307	15,813	21,872	23,633
Electricity		12,911	8,930	5,416	3,985	3,899	7,028
Water		-	-	-	-	-	-
Farm insurance		7,569	7,818	7,422	7,160	6,946	7,383
Disability and accident insurance		1,400	1,446	1,373	1,325	1,285	1,366
Farm taxes and duties Advisor costs		7,637 4,648	7,888	7,489 4,558	7,224 4,397	7,009 4,265	7,449 4,533
Accountant & legal fees		11,337	4,800 11,710	11,118	10,725	10,405	11,059
Phone & utilities		4,227	4,068	3,810	3,686	3,659	3,890
Other overhead costs		602	579	543	525	521	554
Wages, rent and interest payments		173,169	161,316	155,475	157,029	150,021	159,402
Paid Labour		28,449	29,385	27,898	26,912	26,109	27,751
Total land rents		102,582	92,170	83,923	79,922	77,151	87,149
Total Interest on debt		42,138	39,762	43,654	50,195	46,761	44,502
Cow-Calf		36,963	35,729	59,749	31,719	30,382	38,908
Animal purchases		4,733	4,733	4,733	4,733	4,733	4,733
Purchased feed Other fixed and var. costs *		8,877 23,353	7,199 23,797	34,112 20,904	7,990 18,995	6,698 18,951	12,975 21,200
		23,333	23,737	20,304	10,555	10,551	21,200
Retained Ownership Animal purchases		-	-	-	-	-	-
Purchased feed		_	_	_	_	_	
Other fixed and var. costs *		-	-	-	-	-	-
Crop and forage		432,228	465,759	399,720	355,335	381,667	406,942
Seed		109,440	95,278	98,153	93,224	99,211	99,06.
Fertilizer Herbicide		156,025	177,388	143,358	125,014	129,598	146,277 41,256
Fungicide & Insecticide		37,693 28,041	46,871 27,763	42,451 27,763	40,544 27,763	38,720 27,763	27,819
Irrigation		-	-	-	-	-	
Contract labour		- 70 190	- 00 777	-	- 41 90E	-	- 61 11
Fuel costs (crop & forage) Other crop and forage		70,189 30,841	88,777 29,683	60,198 27,798	41,895 26,895	59,677 26,699	64,147
Total Farm Costs (excludes unpaid labour)		781,363	29,683 <b>802,268</b>	736,387	653,480	675,589	28,383 <b>729,81</b> 7
Cash Costs (Total Farm Costs - Depreciation	n)	749,369	773,316	709,860	627,905	650,661	702,222
Depreciation & Opportunity Costs (including	•	749,369 44,191	41,149	38,724	37,773	37,125	39,792
Total Economic Costs (cash, depr, opportu		793,560	814,465	748,584	665,678	687,786	742,015
Profits	-,,	2023	2022	2021	2020	2019	5-yr. av
Net Income (Total Revenue - Total Farm Costs +	Change in Inv 1	376,578	387,256	99,921	207,657	194,912	253,265
Net Cash Farm Income (excludes depreciation)	eunge in mv./	408,526	416,182	126,448	230,594	219,839	280,318

<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)	2023	2022	2021	2020	2019	5 yr. avg.
No. of Cows*	135	135	135	135	135	135
Average male and female calf price (\$/head)	2,427	1,682	1,348	1,319	1,386	1,632
REVENUE						
Cow Calf	2,052	1,524	1,243	1,125	1,191	1,427
Cull animals and slaughter receipts	311	214	175	178	197	215
Breeding livestock receipts	-	-	-	-	-	-
Calf Sales and transfer to retained ownership enterprise	1,741	1,209	968	947	994	1,172
Government payments	-	100.0	100.0	-	-	40.0
Other returns	-	-	-	-	-	-
Total Cow-Calf Revenue	2,052	1,524	1,243	1,125	1,191	1,427
VARIABLE COSTS						
Animal purchases	35.1	35.1	35.1	35.1	35.1	35
Feed (purchase feed, fertiliser, seed, pesticides)	257.6	259.6	434.5	225.8	219.3	279
Machinery (maintenance, depreciation, contractor)	71.6	46.6	51.7	46.8	47.1	53
Fuel, energy, lubricants, water	140.9	139.9	101.1	71.4	97.4	110
Vet & medicine	39.6	37.1	33.3	30.3	26.2	33
Other inputs cow calf enterprise	154.8	149.0	134.0	121.2	125.3	137
Labour						
Paid Labour	50.4	35.6	38.8	35.8	35.7	39
Unpaid Labour	175.9	124.1	135.3	124.8	124.6	137
Total Variable Costs	925.9	826.9	963.8	691.2	710.7	824
CAPITAL COSTS						
Insurance, taxes	52.8	49.4	48.4	46.2	45.2	48
Buildings (maintenance, depreciation)	31.5	20.4	21.8	20.1	20.5	23
Land Cost	-	-	-	-	-	
Rented Land	355.5	319.4	290.9	277.0	267.4	302
Own Land	194.1	170.0	150.9	141.7	135.3	158
Capital Costs	-	-	-	-	-	
Liabilities	74.7	50.9	64.9	66.7	64.0	64
Own capital	0.0	0.0	0.0	0.0	0.0	0
Total Capital Costs	708.6	610.2	577.0	551.7	532.2	596
COSTS						
Cash Costs	1,207.8	1,107.9	1,217.7	942.4	949.0	1,085
Depreciation Costs	56.7	35.1	36.9	34.0	34.1	39
Opportunity Costs	370.0	294.1	286.2	266.5	259.9	295
Total Production Costs	1,634.5	1,437.1	1,540.8	1,242.9	1,242.9	1,420
Profits	2023	2022	2021	2020	2019	5-yr. avg.
Short-term profit (cash costs)	844.6	416.0	25.7	182.6	241.8	342
Medium-term profit (cash + depreciation)	787.9	381.0	(11.2)	148.6	207.7	303
Long-term profit (cash + depreciation + opportunity)  *Model Maintains a stable herd size	417.9	86.8	(297.4)	(117.8)	(52.2)	7

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 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)	2023	2022	2021	2020	2019	5 yr. avg.
Pounds Weaned	67,648	67,648	67,648	67,648	67,648	67,648
Average male and female weaning weight (lbs)	708	708	708	708	708	
Average male and female calf price at weaning (\$/lb)	3.43	2.38	1.91	1.86	1.96	2.31
REVENUE						
Cow Calf Operation	4.10	3.04	2.48	2.25	2.38	2.85
Cull animals and slaughter receipts	0.62	0.43	0.35	0.36	0.39	0.43
Breeding livestock receipts	-	-	-	-	-	-
Calf Sales and transfer to retained ownership enterprise	3.47	2.41	1.93	1.89	1.98	2.34
Government payments	-	0.20	0.20	-	-	0.08
Other returns	-	-	-	-	-	-
Total Cow-Calf Revenue	4.10	3.04	2.48	2.25	2.38	2.85
VARIABLE COSTS						
Animal purchases	0.07	0.07	0.07	0.07	0.07	0.07
Feed (purchase feed, fertiliser, seed, pesticides)	0.51	0.52	0.87	0.45	0.44	0.56
Machinery (maintenance, depreciation, contractor)	0.14	0.09	0.10	0.09	0.09	0.11
Fuel, energy, lubricants, water	0.28	0.28	0.20	0.14	0.19	0.22
Vet & medicine	0.08	0.07	0.07	0.06	0.05	0.07
Other inputs cow calf enterprise	0.31	0.30	0.27	0.24	0.25	0.27
Labour						
Paid Labour	0.10	0.07	0.08	0.07	0.07	0.08
Unpaid Labour	0.35	0.25	0.27	0.25	0.25	0.27
Total Variable Costs	1.8	1.7	1.9	1.4	1.4	1.6
CAPITAL COSTS						
Insurance, taxes	0.11	0.10	0.10	0.09	0.09	0.10
Buildings (maintenance, depreciation)	0.06	0.04	0.04	0.04	0.04	0.05
Land Cost						
Rented Land	0.71	0.64	0.58	0.55	0.53	0.60
Owned Land	0.39	0.34	0.30	0.28	0.27	0.32
Capital Costs						
Liabilities	0.15	0.10	0.13	0.13	0.13	0.13
Own capital	0.00	0.00	0.00	0.00	0.00	0.00
Total Capital Costs	1.4	1.2	1.2	1.1	1.1	1.2
COSTS						
Cash Costs	2.41	2.21	2.43	1.88	1.89	2.17
Depreciation Costs	0.11	0.07	0.07	0.07	0.07	0.08
Opportunity Costs	0.74	0.59	0.57	0.53	0.52	0.59
Total Production Costs	3.26	2.87	3.07	2.48	2.48	2.83
Profits	2023	2022	2021	2020	2019	5-yr. avg.
Short-term profit (cash costs)	1.69	0.83	0.05	0.36	0.48	0.68
Medium-term profit (cash + depreciation)	1.57	0.76	(0.02)	0.30	0.41	0.60
Long-term profit (cash + depreciation + opportunity)	0.83	0.17	(0.59)	(0.24)	(0.10)	0.01

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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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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