

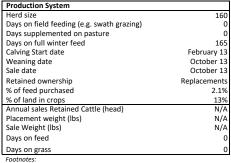
Farm Characteristics	CA-SK-11b
Farm Description	A cow-calf operation with 160 cows, utilizing predominantly homegrown feed.
Winter Feeding Ration	165 days on barley silage (38 lb), hay (10 lb) and greenfeed (9lb)
(lbs/cow/day as fed)	
Retained Ownership/Replacement Ration	Replacements: 213 days on barley silage(30 lb), hay (5 lb) and pellets (4 lb)
(lb/head/day as fed)	
	This handbrook is based on A forms of data, publices were evaluded as required Confey Deceased Confey (CDC) tries to provide quality

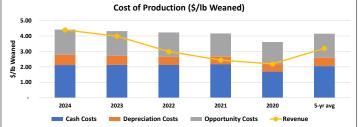
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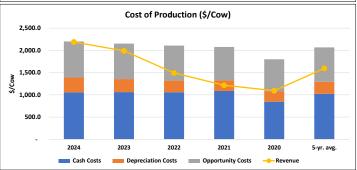
This benchmark is based on 4 farms of data; outliers were excluded as required. Canfax Research Services (CRS) tries to provide quality information, but we make no claims, promises, or guarantees about the accuracy, completeness, or adequacy of the information. CRS does not guarantee and accepts no legal 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.

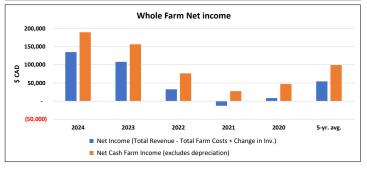
Environment	
Average Annual Temperature	2.5° C
Average Annual Precipitation (mm)	350-400
Ecoregion	Mixed Grassland
Stocking Rate (Animal Unit days per acre)	28
Fertilize Hay (yes/no)	No
Fertilize Pasture (yes/no)	No
Typical Hay Yield (tonnes/acre)	1.3
Grassland Acres (owned+rented)	2,229
Crop Acres (includes hay) (owned+rented)	342
Bush and other acres	0

Physical Performance Indicators	
	Angus, Simmental,
Breed	Hereford, Charolais
Cow:Bull Ratio	27:1
Bull Culling Rate (%)	17%
Mature Cow Weight (lb)	1,450
Heifer Retention for a steady herd (%)	10%
Cow Death Loss (%)	1.3%
Cow Culling Rate (%)	9.0%
Calves alive after 24hr/100 Cows exposed	93
Calf Death Loss (%) 24 hr to weaning	2%
Calves weaned per 100 cows exposed	91
Total Liveweight Sold per Cow (lb)	667
Weaning Weight (lb)	629
205 day adjusted Weaning Weight (lb)	587
Average Daily Gain pre-weaning (lb)	2.45
Weaning Weight as % of Cow Weight	43%









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,

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



# Whole Farm Overview Page

Overview							
Operation Maturity Herd Size Paid Labour (livestock only) (hours) Unpaid Labour (livestock only) (hours) Average wages - paid and unpaid (\$/hr)	Medium 160 186 2,947 25.40	Beef Animals Sold from Retained Ownership			N/A		
Revenue	25.10	2024	2023	2022	2021	2020	5-yr. avg
Market Revenue	5-yr avg	350,099	318,298	222,792	178,552	175,054	248,959
Cow-Calf	94%	350,099	318,298	222,792	178,552	175,054	248,95
Cash Crops	0%	-	-	-	-	-	-
Retained Ownership	0%	-	-	4.000	16.000	-	- C 401
Government Payments Other Farm Revenue +	2% 4%	- 10,152	10,039	<i>16,000</i> 10,001	<i>16,000</i> 10,001	10,002	<i>6,40</i> 0 10,039
Total Revenue	100%	360,251	328,337	248,793	204,552	185,055	265,398
Change in Inventory	100/0	-	-	-	-	-	-
Expenses		2024	2023	2022	2021	2020	5-yr. av
Depreciation		54,764	48,292	43,844	40,233	38,785	45,184
Machinery		29,339	24,228	21,063	18,931	18,279	22,368
Buildings		25,425	24,064	22,780	21,302	20,506	22,815
Quota econ. Accounting		-,	-	-	-	-	,5
Overhead costs		56,689	57,712	55,215	49,165	45,591	52,874
Land improvement		5,112	4,759	4,374	4,167	4,046	4,492
Machinery Maintenance		13.709	12,132	10,736	10.614	10,334	11,505
Buildings Maintenance		2,553	2,518	2,407	2,206	2,136	2,364
Contract labour		4,293	4,293	4,434	4,210	4,061	4,258
Diesel, Gasoline, Natural Gas		6,373	6,537	7,868	5,779	4,358	6,183
Electricity		4,982	7,903	5,466	3,315	2,439	4,82
Water		-	-	-	-	-	-
Farm insurance		6,801	6,801	7,025	6,670	6,434	6,746
Disability and accident insurance		1,281	1,281	1,323	1,256	1,212	1,271
Farm taxes and duties		5,640	5,640	5,825	5,530	5,335	5,594
Advisor costs		-	-	-	-	-	-
Accountant & legal fees		1,839	1,839	1,900	1,804	1,740	1,825
Phone & utilities		3,333	3,256	3,133	2,934	2,839	3,099
Other overhead costs		771	753	725	679	657	717
Wages, rent and interest payments		39,037	41,467	45,424	39,071	33,519	39,704
Paid Labour		5,012	5,012	5,176	4,914	4,741	4,97
Total land rents		24,451	22,441	20,407	19,229	18,658	21,037
Total Interest on debt		9,575	14,014	19,840	14,927	10,121	13,695
Cow-Calf		43,407	40,431	37,649	59,030	32,093	42,522
Animal purchases		10,505	7,976	6,533	6,533	6,533	7,616
Purchased feed		16,925	16,687	15,480	38,150	12,196	19,887
Other fixed and var. costs *		15,977	15,768	15,636	14,347	13,364	15,018
			,		- 1,0		
Retained Ownership Animal purchases		-	-	-	-	-	
Purchased feed		_	_	_	_	_	_
Other fixed and var. costs *		-	-	-	-	-	-
Crop and forage		31,650	32,320	34,111	29,834	26,788	30,941
Seed		8,459	8,382	7,297	7,518	7,140	7,755
Fertilizer Herbicide		12,836 1,015	12,926 1,458	14,043 1,813	12,219 1,642	11,198 1,568	12,645 1,495
Fungicide & Insecticide		616	616	616	616	616	616
Irrigation		-	-	-	-	-	-
Contract labour		388	388	400	380	367	385
Fuel costs (crop & forage) Other crop and forage		5,377 2,959	5,660 2,890	7,160 2,782	4,855 2,605	3,379 2,520	5,286 2,751
Total Farm Costs (excludes unpaid labour)		225,547	220,222	216,242	217,333	176,777	211,224
Cash Costs (Total Farm Costs - Depreciation)		170,783	171,930	172,398	177,100	137,991	166,040
Depreciation & Opportunity Costs (including	unpaid labour)	129,638	123,166	118,718	115,107	113,660	120,058
Total Economic Costs (cash, depr, opportunit	ty)	300,421	295,096	291,116	292,207	251,651	286,098
Profits		2024	2023	2022	2021	2020	5-yr. av
Net Income (Total Revenue - Total Farm Costs + C	hange in Inv.)	134,704	108,115	32,551	(12,780)	8,279	54,174
Net Cash Farm Income (excludes depreciation)		189,316	156,368	76,393	27,452	47,063	99,318

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





 $<sup>{}^{\</sup>bullet} Other fixed and var. costs includes: veterinary, medicine, maintenance and spare parts, and other/miscellaneous$ 

Cow-Calf Enterprise (\$/Cow)	2024	2023	2022	2021	2020	5 yr. avg.
No. of Cows*	160	160	160	160	160	160
Average male and female calf price (\$/head)	2,317	2,157	1,495	1,199	1,172	1,668
REVENUE						
Cow Calf	2,188	1,989	1,492	1,216	1,094	1,596
Cull animals and slaughter receipts	335	261	192	155	155	219
Breeding livestock receipts	-	-	-	-	-	-
Calf Sales and transfer to retained ownership enterprise	1,853	1,728	1,200	961	940	1,337
Government payments	-	-	100.0	100.0	-	40.0
Other returns	-	-	-	-	-	-
Total Cow-Calf Revenue	2,188	1,989	1,492	1,216	1,094	1,596
VARIABLE COSTS						
Animal purchases	65.7	49.9	40.8	40.8	40.8	48
Feed (purchase feed, fertiliser, seed, pesticides)	299.5	298.2	290.0	418.2	245.5	310
Machinery (maintenance, depreciation, contractor)	290.1	248.8	219.2	202.2	195.5	231
Fuel, energy, lubricants, water	102.6	122.9	124.5	84.2	61.3	99
Vet & medicine	42.8	42.4	41.7	38.6	35.2	40
Other inputs cow calf enterprise	90.4	88.9	87.7	80.5	76.7	85
Labour						
Paid Labour	30.5	30.4	31.0	29.1	28.0	30
Unpaid Labour	461.0	459.7	468.7	440.3	424.3	451
Total Variable Costs	1,382.6	1,341.1	1,303.6	1,333.8	1,107.4	1,294
CAPITAL COSTS						
Insurance, taxes	87.1	86.9	89.1	84.1	81.1	86
Buildings (maintenance, depreciation)	170.0	161.1	150.7	139.1	133.9	151
Land Cost	-	-	-	-	-	
Rented Land	152.8	140.3	127.5	120.2	116.6	131
Own Land	232.0	215.3	198.5	190.6	186.8	205
Capital Costs	-	-	-	-	-	
Liabilities	58.2	84.9	119.0	88.7	59.8	82
Own capital	118.4	123.2	119.9	120.6	114.9	119
Total Capital Costs	818.5	811.7	804.8	743.4	693.1	774
COSTS						
Cash Costs	1,056.9	1,061.9	1,059.0	1,087.6	845.2	1,022
Depreciation Costs	332.8	292.6	262.3	238.1	229.3	271
Opportunity Costs	811.4	798.2	787.1	751.5	726.0	775
Total Production Costs	2,201.0	2,152.7	2,108.4	2,077.2	1,800.5	2,068
Profits	2024	2023	2022	2021	2020	5-yr. avg.
Short-term profit (cash costs)	1,131.3	927.4	433.4	128.3	248.9	574
Medium-term profit (cash + depreciation)	798.5	634.8	171.2	(109.8)	19.6	303
Long-term profit (cash + depreciation + opportunity)  *Model Maintains a stable herd size	(12.9)	(163.4)	(615.9)	(861.3)	(706.4)	(472)

Costs and revenue are reported for a calendar (e.g. January to December). It reflects revenue and expenses that a producer experiences over that period. Producers who want a cash flow analysis typically use a calendar or agricultural year. This method is often preferred by lenders when getting evaluated for a line of credit or a loan. The model maintains a stable herd, retention rates were adjusted to ensure that

Cash Costs
Cash costs are the outlays over the course of the year, including machine repairs, paid labour, costs of feed production, and purchased feed. CDN COP Network bases cash costs on actual costs of production. Agri Profit\$ uses the

The cost of producing the feed on-farm and the purchased feed costs as used in that year to reflect the experience and situation of producers. Production inputs, land and any purchased feeds utilized that year are included. Rations for each type of animal and inventories are used to calculate total feed requirements. Any shortfall in production are assumed to be purchased at market value. Feed rations and yields are provided "as fed" to balance the model. Below are the included costs for feed production:

Feed: Calculated as feed cost (purchase feed + fertilizer, seed and pesticides for own feed production) + machinery cost (machinery maintenance + depreciation + contractor) + fuel, energy, lubricants and water + land cost (land

tents paid + opportunity cost own land)

Land: separated into owned and rented land, includes both crop and pastureland. Land costs = Rents paid + calculated land rents forown 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 I and 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 degreciation costs between AgriProfit\$ and the CDN COP Network primarily comes from the use of specific (AgriP rofit\$) 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 c osts 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,

utilizing owned land for production should be preferred and vice-versa.

Labour: The opportunity costs of labour are the calculated wage for family labour, either off-farm salary or farm manager salary. It is important to note that the opportunity cost of labour reflects the income you can receive for

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Unit Reported
Often cow-calf COP is expressed as dollars per cow wintered (\$/cow wintered) which adjusts the calf price per head for the number of calves sold per 100 cows. When evaluating overall cost structure to identify areas for improvement, or comparing to a benchmark, this is sufficient.

However, a per unit cost provides producers with their break-even cost, allowing them to compare with posted market prices for their calves' average weight category. This break-even price will depend on the percentage of calves weaned that year from the cow herd. The higher percent weaned, the lower per pound the break -even price will be





Cow-Calf Enterprise (\$/lb Weaned)	2024	2023	2022	2021	2020	5 yr. avg.
Pounds Weaned	79,804	79,804	79,804	79,804	79,804	79,804
Average male and female weaning weight (lbs)	629	629	629	629	629	629
Average male and female calf price at weaning (\$/lb)	3.68	3.43	2.38	1.91	1.86	2.65
REVENUE						
Cow Calf Operation	4.39	3.99	2.99	2.44	2.19	3.20
Cull animals and slaughter receipts	0.67	0.52	0.39	0.31	0.31	0.44
Breeding livestock receipts	-	-	-	-	-	-
Calf Sales and transfer to retained ownership enterprise	3.72	3.47	2.41	1.93	1.88	2.68
Government payments	-	-	0.20	0.20	-	0.08
Other returns	-	-	-	-	-	-
Total Cow-Calf Revenue	4.39	3.99	2.99	2.44	2.19	3.20
VARIABLE COSTS						
Animal purchases	0.13	0.10	0.08	0.08	0.08	0.10
Feed (purchase feed, fertiliser, seed, pesticides)	0.60	0.60	0.58	0.84	0.49	0.62
Machinery (maintenance, depreciation, contractor)	0.58	0.50	0.44	0.41	0.39	0.46
Fuel, energy, lubricants, water	0.21	0.25	0.25	0.17	0.12	0.20
Vet & medicine	0.09	0.08	0.08	0.08	0.07	0.08
Other inputs cow calf enterprise	0.18	0.18	0.18	0.16	0.15	0.17
Labour						
Paid Labour	0.06	0.06	0.06	0.06	0.06	0.06
Unpaid Labour	0.92	0.92	0.94	0.88	0.85	0.90
Total Variable Costs	2.8	2.7	2.6	2.7	2.2	2.6
CAPITAL COSTS						
Insurance, taxes	0.17	0.17	0.18	0.17	0.16	0.17
Buildings (maintenance, depreciation)	0.34	0.32	0.30	0.28	0.27	0.30
Land Cost						
Rented Land	0.31	0.28	0.26	0.24	0.23	0.26
Owned Land	0.47	0.43	0.40	0.38	0.37	0.41
Capital Costs						
Liabilities	0.12	0.17	0.24	0.18	0.12	0.16
Own capital	0.24	0.25	0.24	0.24	0.23	0.24
Total Capital Costs	1.6	1.6	1.6	1.5	1.4	1.6
COSTS						
Cash Costs	2.12	2.13	2.12	2.18	1.69	2.05
Depreciation Costs	0.67	0.59	0.53	0.48	0.46	0.54
Opportunity Costs	1.63	1.60	1.58	1.51	1.46	1.55
Total Production Costs	4.41	4.32	4.23	4.16	3.61	4.15
Profits	2024	2023	2022	2021	2020	5-yr. avg.
Short-term profit (cash costs)	2.27	1.86	0.87	0.26	0.50	1.15
Medium-term profit (cash + depreciation)	1.60	1.27	0.34	(0.22)	0.04	0.61
Long-term profit (cash + depreciation + opportunity)	(0.03)	(0.33)	(1.23)	(1.73)	(1.42)	(0.95)

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