

# **Farm Summary**

Farm Characteristics	CA-SK-3
Farm Description	A cow-calf operation producing homegrown feed located in a semi-arid shortgrass region of SW Saskatchewan with high proportion of
Tarm Description	native pasture.
Winter Feeding Ration	30 days (Nov-Dec) half ration of grass hay (15 lb) fed with field grazed cereal crop residue, followed by 150 days of hay (31 lb) combined
(lbs/cow/day as fed)	with lentil, barley or malt pellets (3 lb), 210 days of free choice mineral (100 g) and year round salt (50 g).
Retained Ownership/Replacement Ration	150 days of hay (16 lb) combined with lentils, barley or malt pellets (4 lb), and 210 days of mineral (60 g), and year round salt (30 g).
(lb/head/day as fed)	
	This benchmark is based on 5 farms of data; outliers were excluded as required.Canfax Research Services (CRS) tries to provide quality

Disclaimer:

This benchmark is based on 5 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.

verage Annual Precipitation (mm) coregion tocking Rate (Animal Unit days per acre)	250 - 350 mm Mixed grassland
tocking Rate (Animal Unit days per acre)	-
	c
	C
ertilize Hay (yes/no)	No
ertilize Pasture (yes/no)	No
ypical Hay Yield (tonnes/acre)	1.2
irassland Acres (owned+rented)	8,167
rop Acres (includes hay) (owned+rented)	556
ush and other acres	C

Breed
Cow:Bull Ratio
Bull Culling Rate (%)
Mature Cow Weight (lb)
Heifer Retention for a steady herd (%)
Cow Death Loss (%)
Cow Culling Rate (%)
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 (lb)
Weaning Weight (lb)
205 day adjusted Weaning Weight (lb)
Average Daily Gain pre-weaning (lb)
Weaning Weight as % of Cow Weight

Production System	
Herd size	245
Days on field feeding (e.g. swath grazing)	30
Days supplemented on pasture	0
Days on full winter feed	150
Calving Start date	March 25
Weaning date	October 15
Sale date	October 20
Retained ownership	Replacements
% of feed purchased	11.1%
% of land in crops	6%
Annual sales Retained Cattle (head)	N/A
Placement weight (lbs)	N/A
Sale Weight (lbs)	N/A
Days on feed	0
Days on grass	0







Footnotes:

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 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

Angus 27:1 17%

1,300 13%

1.3% 12.0%

558 612 2.57

43%



## Whole Farm Overview Page

Overview							
Operation Maturity Herd Size	Medium 245	Reef Animala	Sold from Retaine	d Ownership	N/A		
Paid Labour (livestock only) (hours)	- 245	beer Animais	Solu II olli Ketallie	u Ownersnip	N/A		
Unpaid Labour (livestock only) (hours)	2,719						
Average wages - paid and unpaid (\$/hr)	24.67	2024			2024	2020	-
Revenue		2024	2023	2022	2021	2020	5-yr. avg
Market Revenue	5-yr avg	<b>493,044</b>	436,405	<b>294,109</b>	<b>234,362</b>	<b>233,726</b>	338,329
Cow-Calf Cash Crops	96% 0%	493,044	436,405	294,109	234,362	233,726	338,329
Retained Ownership	0%	-	-	-	-	-	-
Government Payments	3%	-	-	24,500	24,500	-	9,800
Other Farm Revenue +	1%	2,520	2,492	2,480	2,480	2,480	2,490
Total Revenue	100%	495,564	438,897	321,089	261,342	236,206	350,619
Change in Inventory		-		-	-	(1,087)	(217
Expenses		2024	2023	2022	2021	2020	5-yr. avg
Depreciation		34,845	30,291	27,254	24,904	24,016	28,262
Machinery		22,276	18,395	15,993	14,374	13,879	16,983
Buildings		12,569	11,896	11,262	10,531	10,138	11,279
Quota econ. Accounting		-	-	-	-	-	-
Overhead costs		88,473	94,934	90,436	74,666	66,065	82,915
Land improvement		11,217	10,407	9,540	8,591	7,944	9,540
Machinery Maintenance		7,040	6,230	5,513	4,879	4,318	5,596
Buildings Maintenance		14,407	14,208	13,578	12,468	12,071	13,346
Contract labour		3,056	3,056	3,156	2,997	2,891	3,031
Diesel, Gasoline, Natural Gas		13,515	14,226	17,994	12,201	8,491	13,285
Electricity		13,219	20,969	14,503	8,797	6,472	12,792
Water		-	-	-	-	-	-
Farm insurance		8,254	8,254	8,525	8,094	7,808	8,187
Disability and accident insurance		3,119	3,119	3,222	3,059	2,951	3,094
Farm taxes and duties		5,636	5,636	5,821	5,527	5,332	5,590
Advisor costs		-	-	-	-	-	-
Accountant & legal fees		1,216	1,216	1,256	1,192	1,150	1,206
Phone & utilities		7,496	7,321	7,046	6,599	6,384	6,969
Other overhead costs		299	292	281	264	255	278
Wages, rent and interest payments Paid Labour		84,568	90,456 -	85,895 -	80,749 -	79,850 -	84,304 -
Total land rents		69,570	65,774	62,091	61,418	61,091	63,989
Total Interest on debt		14,998	24,682	23,805	19,331	18,759	20,315
Cow-Calf		76,796	71,772	66,596	118,008	55,718	77,778
Animal purchases		15,947	12,108	9,918	8,509	8,700	11,036
Purchased feed Other fixed and var. costs *		37,539 23,310	36,786 22,878	33,576 23,103	88,437 21,062	27,121 19,896	44,692 22,050
		25,510	22,878	25,105	21,062	19,890	22,050
Retained Ownership		-	-	-	-	-	-
Animal purchases Purchased feed		-	-	-	-	-	-
Other fixed and var. costs *		-	-	-	-	-	-
Crop and forage		16,671	17,402	18,284	17,231	16,592	17,236
Seed		549	544	474	488	463	503
Fertilizer Herbicide		- 1,799	- 2,584	- 3,214	- 2,911	- 2,780	- 2,657
Fungicide & Insecticide		-	2,304	-	2,711	-	2,057
Irrigation		-	-	-	-	-	-
Contract labour		12,195	12,195	12,596	11,959	11,536	12,097
Fuel costs (crop & forage) Other crop and forage		- 2,128	- 2,078	- 2,000	- 1,873	- 1,812	- 1,979
Total Farm Costs (excludes unpaid labour)		301,353	304,855	288,466	315,559	242,242	290,495
Cash Costs (Total Farm Costs - Depreciation	n)	266,508	274,563	261,211	290,655	218,226	262,233
Depreciation & Opportunity Costs (includin	,	101,902	97,348	94,311	91,961	91,073	95,319
Total Economic Costs (cash, depr, opportu		368,410	371,911	355,522	382,616	309,298	357,551
Profits	••	2024	2023	2022	2021	2020	5-yr. avg
Net Income (Total Revenue - Total Farm Costs +	Change in Inv )	194,211	134,042	32,623	(54,217)	(7,123)	59,907
			1042	32,023	(,)	(1,123)	33,307

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



2

Cow-Calf Enterprise (\$/Cow)	2024	2023	2022	2021	2020	5 yr. avg.
No. of Cows*	245	245	245	245	245	245
Average male and female calf price (\$/head)	2,245	2,031	1,371	1,097	1,087	1,566
REVENUE				·		
Cow Calf	2,012	1,781	1,300	1,057	954	1,421
Cull animals and slaughter receipts	305	237	156	120	126	189
Breeding livestock receipts	-	-	-	-	-	-
Calf Sales and transfer to retained ownership enterprise	1,707	1,545	1,045	837	828	1,192
Government payments	-	-	100.0	100.0	-	40.0
Other returns	-	-	-	-	-	-
Total Cow-Calf Revenue	2,012	1,781	1,300	1,057	954	1,421
VARIABLE COSTS						
Animal purchases	65.1	49.4	40.5	34.7	35.5	45
Feed (purchase feed, fertiliser, seed, pesticides)	217.3	213.9	199.2	417.6	163.8	242
Machinery (maintenance, depreciation, contractor)	181.9	162.8	152.1	139.6	133.2	154
Fuel, energy, lubricants, water	108.6	142.8	131.5	84.8	60.4	106
Vet & medicine	27.5	27.2	26.7	26.0	25.7	27
Other inputs cow calf enterprise	86.9	84.7	84.4	75.5	70.6	80
Labour						
Paid Labour	-	-	-	-	-	-
Unpaid Labour	274.5	274.4	282.6	267.7	258.3	271
Total Variable Costs	961.8	955.1	917.0	1,045.9	747.4	925
CAPITAL COSTS						
Insurance, taxes	86.5	86.5	89.2	84.6	81.6	86
Buildings (maintenance, depreciation)	109.6	105.9	100.5	92.9	89.7	100
Land Cost	-	-	-	-	-	
Rented Land	284.0	268.5	253.4	250.7	249.4	261
Own Land	527.3	498.6	470.7	465.6	463.1	485
Capital Costs	-	-	-	-	-	
Liabilities	60.9	100.2	96.4	78.2	75.8	82
Own capital	22.0	14.4	5.1	1.4	7.1	10
Total Capital Costs	1,090.3	1,074.1	1,015.4	973.3	966.6	1,024
COSTS						
Cash Costs	1,086.2	1,118.5	1,063.2	1,183.3	887.9	1,068
Depreciation Costs	142.0	123.4	110.9	101.2	97.6	115
Opportunity Costs	823.9	787.3	758.4	734.7	728.4	767
Total Production Costs	2,052.1	2,029.2	1,932.4	2,019.2	1,713.9	1,949
Profits	2024	2023	2022	2021	2020	5-yr. avg.
Short-term profit (cash costs)	926.2	662.8	237.3	(126.8)	66.0	353
Medium-term profit (cash + depreciation)	784.2	539.4	126.4	(228.0)	(31.6)	238
Long-term profit (cash + depreciation + opportunity)	(39.6)	(247.9)	(632.0)	(962.7)	(760.0)	(528)
*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. 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 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.

### Allocation

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 growr 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

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 AgriProfitS and the CDN COP Network primarily comes from the use of specific (AgriP rofitS) 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 d 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

tabout. The opportunity costs of about are the factored wage for family labout, enter of family labout

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



Brought to you by Canfax Research Services in collaboration with the Provincial Coordinators and funded by \*BCRC



Cow-Calf Enterprise (\$/lb Weaned)	2024	2023	2022	2021	2020	5 yr. avg.
Pounds Weaned	102,397	102,397	102,397	102,397	102,397	102,397
Average male and female weaning weight (lbs)	558	558	558	558	558	558
Average male and female calf price at weaning (\$/lb)	4.02	3.64	2.46	1.97	1.95	2.81
REVENUE						
Cow Calf Operation	4.82	4.26	3.11	2.53	2.28	3.40
Cull animals and slaughter receipts	0.73	0.57	0.37	0.29	0.30	0.45
Breeding livestock receipts	-	-	-	-	-	-
Calf Sales and transfer to retained ownership enterprise	4.09	3.70	2.50	2.00	1.98	2.85
Government payments	-	-	0.24	0.24	-	0.10
Other returns	-	-	-	-	-	-
Total Cow-Calf Revenue	4.82	4.26	3.11	2.53	2.28	3.40
VARIABLE COSTS						
Animal purchases	0.16	0.12	0.10	0.08	0.08	0.11
Feed (purchase feed, fertiliser, seed, pesticides)	0.52	0.51	0.48	1.00	0.39	0.58
Machinery (maintenance, depreciation, contractor)	0.44	0.39	0.36	0.33	0.32	0.37
Fuel, energy, lubricants, water	0.26	0.34	0.31	0.20	0.14	0.25
Vet & medicine	0.07	0.07	0.06	0.06	0.06	0.06
Other inputs cow calf enterprise	0.21	0.20	0.20	0.18	0.17	0.19
Labour						
Paid Labour	-	-	-	-	-	-
Unpaid Labour	0.66	0.66	0.68	0.64	0.62	0.65
Total Variable Costs	2.3	2.3	2.2	2.5	1.8	2.2
CAPITAL COSTS						
Insurance, taxes	0.21	0.21	0.21	0.20	0.20	0.21
Buildings (maintenance, depreciation)	0.26	0.25	0.24	0.22	0.21	0.24
Land Cost						
Rented Land	0.68	0.64	0.61	0.60	0.60	0.62
Owned Land	1.26	1.19	1.13	1.11	1.11	1.16
Capital Costs						
Liabilities	0.15	0.24	0.23	0.19	0.18	0.20
Own capital	0.05	0.03	0.01	0.00	0.02	0.02
Total Capital Costs	2.6	2.6	2.4	2.3	2.3	2.4
COSTS						
Cash Costs	2.60	2.68	2.54	2.83	2.12	2.55
Depreciation Costs	0.34	0.30	0.27	0.24	0.23	0.28
Opportunity Costs	1.97	1.88	1.81	1.76	1.74	1.83
Total Production Costs	4.91	4.86	4.62	4.83	4.10	4.66
Profits	2024	2023	2022	2021	2020	5-yr. avg.
Short-term profit (cash costs)	2.22	1.59	0.57	(0.30)	0.16	0.84
Medium-term profit (cash + depreciation)	1.88	1.29	0.30	(0.55)	(0.08)	0.57
Long-term profit (cash + depreciation + opportunity)	(0.09)	(0.59)	(1.51)	(2.30)	(1.82)	(1.26)

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 ProfitS 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 productors. 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

Nations for each type of animal and inventiones are used to calculate to calculate the equivalences, any shortain in production of e assume to be purchased at market value. Feed factors and years are produced as red, to be purchased at market value. Feed factors and years are produced as red, to be purchased at market value. Feed factors and years are produced as red, to be purchased at market value. Feed factors and years are produced as red, to be purchased at market value. Feed factors and years are produced as red, to be purchased at market value. Feed factors and years are produced as red, to be purchased at market value. Feed factors and years are produced as red, to be purchased at market value. Feed factors and years are produced as red, to be purchased at market value. Feed factors and years are produced as red, to be purchased at market value. Feed factors and years are produced as red, to be purchased at market value. Feed factors and years are produced as red, to be purchased at market value. Feed factors and years are produced as red, to be purchased at market value. Feed factors and years are produced as red, to be purchased at market value. Feed factors and years are produced as red, to be purchased at market value. Feed factors and years are produced as red, to be purchased at market value. Feed factors and years are produced as red, to be purchased at the produced as red, to be purchased at the produced as red, to be purchased at the produced at the produced

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. Allocation

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

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 AgriProfitS and the CDN COP Network primarily comes from the use of specific (AgriP rofitS) versus generic (CDN COP Network) allocation. Where generic allocation results in machinery depreciation cost of precursors and size of the 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, 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

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 pro duction should be preferred. 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

The conversion of the 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 weared that year from the cow herd. The higher percent weared, the lower per pound the break-even price will be.



