AgriProfit#

Benchmarks for Alberta Cattlemen

Economic, Productive & Financial Performance Of Alberta Cow/Calf Operations

Comparing:

Alberta Total, Top Profitability & Low Production Cost Management Groupings

Production Year - 1998

Nov-03



Economics & Competitiveness



Foreword

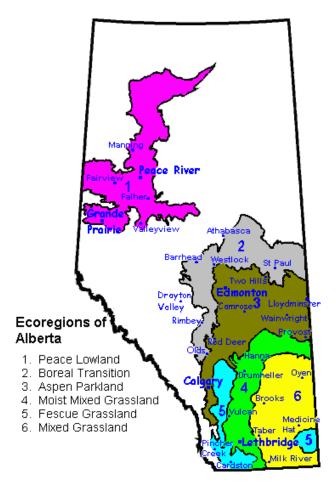
This *AgriProfit*\$ Cost & Returns Report presents the productive, economic & financial performance of cow/calf producers across Alberta for the 1998 production year.

Field research was undertaken through Alberta Agriculture's *AgriProfit*\$ Business Analysis & Research program with the cooperation of producers across the Province.

The intent of this report is to benchmark three specific management groupings:

- an "Alberta Total" average including all program participants across the 6 grass type regions.
- an average of the "low cost" herds across the Province. This "**Low Cost**" average includes the lower 1/3rd of producers in the pool as ranked by total costs / lb. of calf weaned*.
- an average of the "top profit" herds across Alberta. This "**Top R2E**" average includes the upper 1/3rd of producers in the pool as ranked by profitability.*

The primary value of this report is to enable producers to gauge their productive, economic and financial performance relative to their peers locally and provincially. Benchmark analysis, comparing to one's own detailed cost and returns analysis, is the first critical step in identifying operational strengths and weaknesses in a cow/calf operation.



The map above illustrates the location of each grass type region within Alberta. This package only reports the results of aggregated provincial groupings. If you are interested in obtaining information on specific regions, please contact the Economics Unit at:

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- * For this analysis, return to equity (R2E) per lb. weaned & total production cost (TPC) per lb. weaned were the primary criteria for identifying the top management herd groupings. It should be noted, however, that there are several other factors that may contribute to the success of a cow/calf operation.
- ****Note**: The regional and top management groups provided sufficient observations to develop the farm financial benchmarks ... only these are used to develop the farm level financial performance indicators. Enterprise productive & economic information is developed based upon the whole regional sample.

Dale A. Kaliel

Sr. Economist: Production Economics

Production Economist: Livestock & Forages



1998 Cow/Calf Enterprise Overview

Economic & Physical Performance Comparisons

Benchmark Comparables: Alberta Total; Top Profit; Low Cost Groups

Enterprise Type: Weaned-Calf

omic Performance Indicators:			
	\$/1	Lb. Weaned	i
	Alberta	Top	Low
	Total	R2E	Cost
Production Stock Sales	0.994	0.941	0.950
Value of Production	1.101	1.184	1.071
Winter Feed Costs	0.451	0.359	0.382
Bedding Costs	0.030	0.038	0.032
Pasture Costs	0.213	0.184	0.173
Labour Costs	0.185	0.161	0.149
Other Variable Costs	0.202	0.149	0.142
Depreciation & Capital Lease Payments	0.081	0.072	0.059
Other Fixed Costs	0.069	0.046	0.036
Total Cash Costs	1.018	0.805	0.802
Total Production Costs	1.230	1.009	0.973
Contribution Margin	0.021	0.293	0.194
Gross Margin	0.083	0.378	0.269
Return to Investment	(0.106)	0.201	0.117
Return to Equity & Management	(0.129)	0.174	0.098
Total Investment (\$ / cow wintered)	1,715	1,683	1,607

Physical Performance Indicators:

	Alberta	Top	Low		Alberta	Top	Low
	Total	R2E	Cost		Total	R2E	Cost
Conception Rate (%)	88.7	90.5	91.5	Cows Wintered	157.3	165.1	170.0
Calving Rate (%)	97.8	98.1	98.6	Cows per Bull	25.7	27.5	27.2
Weaning Rate (%)	97.9	97.6	97.0	Labour Hours per Cow	8.9	8.1	8.0
Calf Crop (%)	83.7	87.1	87.3	AUM's/Cow Wintered	6.9	7.1	6.5
% Calved - 1st 2 Cycles	81.6	79.1	80.5	Feeding Season Days	166.7	171.3	174.7
Lbs. Weaned/Cow Exposed	450.9	503.4	490.3	Tonnes Fed per Cow			
Lbs. Weaned/Cow Wintered	507.1	524.5	560.9	- as-fed	4.2	4.0	4.3
Wean Wt as a % of Cow Wt.	43.0	45.0	43.9	- dry matter			
Weight per Day of Age (lbs.)	2.70	2.72	2.79				

	Alberta	Top	Low
	Total	R2E	Cost
${f G}$ rowth (weaning weight)	540.9	577.9	561.5
O pen Cows (%)	12.3	8.3	8.1
L ength of Calving Period	100.8	87.6	92.9
D eath Loss of Calves (%)	2.0	1.7	2.2



449.74

545.73

1998 Cow/Calf Enterprise Overview

Economic & Financial Performance Comparisons
Benchmark Comparables: Alberta Total; Top Profit; Low Cost Groups
Enterprise Type: Weaned-Calf

	\$ / Cow Wintered		
	Alberta Total	Top R2E	Low Cost
Production Stock Sales Value of Production	504.21 558.49	493.36 620.73	532.94 600.81
Winter Feed Costs	228.58	188.52	214.02
Bedding Costs	15.31	19.82	17.91
Pasture Costs	107.88	96.36	96.75
Labour Costs	93.66	84.46	83.85
Other Variable Costs	102.33	78.16	79.62
Depreciation & Capital Lease Payments	41.25	37.70	33.28
Other Fixed Costs	34.90	24.26	20.31

Contribution Margin	10.73	153.41	108.67
Gross Margin	42.09	198.31	151.08
Return to Investment	(53.74)	105.68	65.81
Return to Equity & Management	(65.41)	91.45	55.09

516.40

623.91

422.42

529.28

Farm Financial Performance Indicators:

Total Cash Costs

Total Production Costs

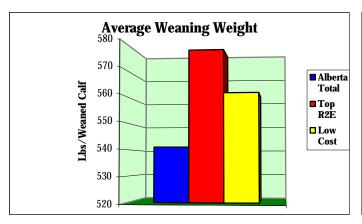
Economic Performance Indicators:

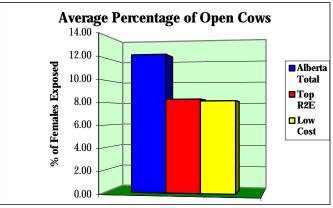
ROAD to Profitability	Alberta	Тор	Low	
	Total	R2E	Cost	
R isk (Debt to Asset Ratio)	0.19	0.19	0.22	= Total Liabilites / Total Assets
Operating Expense Ratio	0.63	0.61	0.65	= Operating Expenses / Value of Production
A sset Return	0.02	0.04	0.03	= Return on Assets / Total Farm Assets
D ebt Payout	6.54	4.33	5.94	= Total Liabilities / Net Farm Income
to P rofitability	43,621.44	72,508.66	60,309.35	= Net Farm Income
The "3-C's"				
Current Ratio	2.18	2.28	1.89	= Current Assets / Current Liabilities
C alif. Working Cap. Ratio	0.57	0.63	0.50	= Working Capital / Total Expenses
C apital Turnover Rato	0.16	0.20	0.20	= Value of Production / Total Farm Assets
Farm Size (Acres)	2,539	1,952	2,543	= Total Acres in crops, forages & grazing (includes all acres owned, rented & leased)

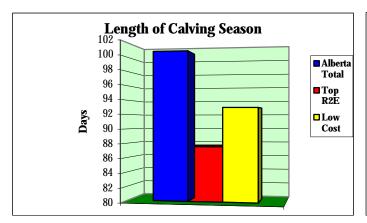


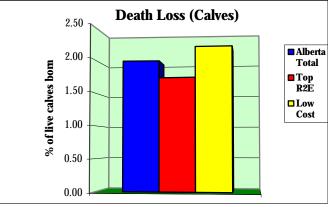
1998 Cow/Calf Enterprise Overview

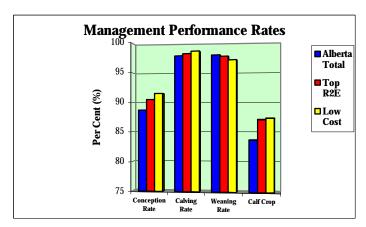
Physical Performance Comparisons
Benchmark Comparables: Alberta Total; Top Profit; Low Cost Groups

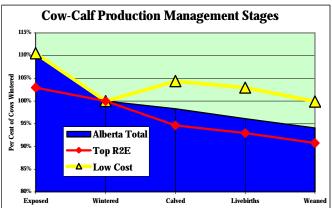








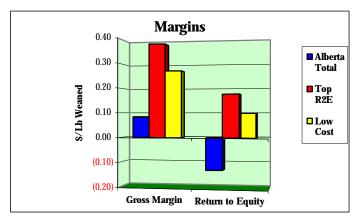


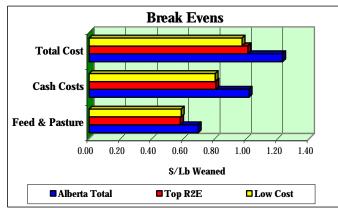


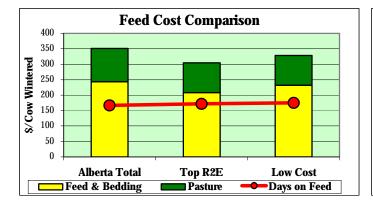


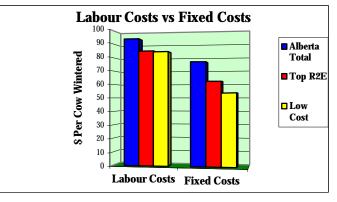
1998 Cow/Calf Enterprise Overview

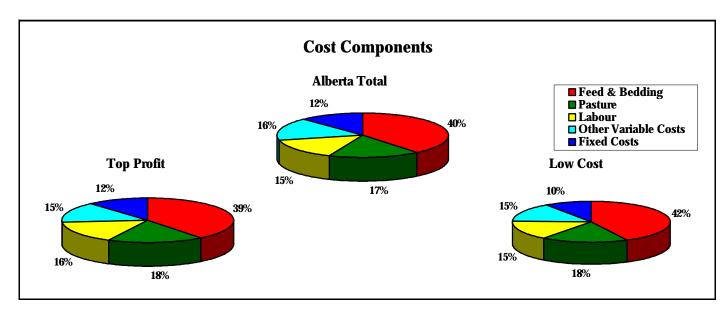
Economic Performance Comparisons
Benchmark Comparables: Alberta Total; Top Profit; Low Cost Groups













1998 Cow/Calf Enterprise Unit Cost & Returns Detail

Economic Performance Comparisons

	Alberta <u>Total</u> \$	Top <u>R2E</u> /Lb Weaned	Low <u>Cost</u>
(A)	•		
1. Weaned Calves	0.94	0.93	0.94
2. Feeder Calves	0.05	0.01	0.01
3. Slaughter Cattle	0.01	0.00	0.00
4. Purebred Calves	0.00	0.00	0.00
5. Baby Calves	0.00	0.00	0.00
6. Cull Cows/Open Heifers	0.24	0.20	0.22
7. Bulls	0.02	0.02	0.02
8. Bred Cows/Bred Heifers	0.05	0.04	0.07
9. Miscellaneous Receipts	0.01	0.02	0.01
10. Government Programs	0.00	0.00	0.00
11. Inventory Adjustment	0.02	0.09	0.10
12. Less: Cattle Purchases	0.24	0.13	0.30
Value of Production	1.10	1.18	1.07
(B)			
1. Winter Feed	0.45	0.36	0.38
2. Bedding	0.03	0.04	0.03
3. Pasture	0.21	0.18	0.17
4. Veterinary & Medicine	0.04	0.03	0.03
5. Breeding Fees/Bull Rental	0.00	0.00	0.00
6. Trucking & Marketing Charges	0.03	0.02	0.03
7. Fuel	0.02	0.02	0.02
8. Repairs - Machine	0.03	0.02	0.01
9. Repairs - Corrals & Buildings	0.02	0.01	0.01
10. Utilities & Miscellaneous Expenses	0.05	0.03	0.03
11. Custom Work & Specialized Labour	0.01	0.01	0.01
12. Operating Interest Paid	0.01	0.01	0.00
13. Paid Labour & Benefits	0.05	0.03	0.04
14. Unpaid Labour	0.13	0.13	0.11
Variable Costs	1.08	0.89	0.88
(C)			
Share/Lease Cattle Payments	0.03	0.01	0.01
2. Taxes, Water Rates, Lic. & Insurance	0.02	0.01	0.01
3. Equipment & Building a) Depreciation	0.08	0.07	0.06
b) Lease Payments	0.00	0.00	0.00
4. Paid Capital Interest	0.02	0.03	0.02
Total Capital Costs	0.15	0.12	0.10
(D) Cash Costs (B+C-B14-C3)	1.02	0.81	0.80
(E) Total Production Costs (B+C)	1.23	1.01	0.97
(F) Gross Margin (A-D)	0.08	0.38	0.27
Return to Unpaid Labour (A-D+B14)	0.00	0.31	0.21
Return to Investment (A-E+C4)	(0.11)	0.20	0.12
Return to Equity (A-E)	(0.13)	0.17	0.10
Total Investment	3.38	3.21	2.87



1998 Cow/Calf Enterprise Unit Cost & Returns Detail Feonomic Performance Committee

Economic Performance Comparisons

			Alberta <u>Total</u>	Top R2E	Low <u>Cost</u>
(A)			\$/Cow Wintere	d	
	Weaned Calves		477.27	486.18	524.86
	Feeder Calves		23.75	7.17	8.08
	Slaughter Cattle		3.00	0.00	0.00
	Purebred Calves		0.00	0.00	0.00
	Baby Calves		0.18	0.00	0.00
	Cull Cows/Open Heifers		120.58	106.88	123.31
7.			11.41	10.08	9.26
	Bred Cows/Bred Heifers		24.66	22.19	41.95
	Miscellaneous Receipts		6.12	8.40	4.60
	. Government Programs		0.95	2.55	2.01
	. Inventory Adjustment		11.14	47.59	56.28
	. Less: Cattle Purchases		120.58	70.31	169.55
	Value of Production		558.49	620.73	600.81
(B)					
	Winter Feed		228.58	188.52	214.02
2.	Bedding		15.31	19.82	17.91
	<u> </u>		107.88	96.36	96.75
4.	Veterinary & Medicine		17.76	16.15	15.37
	Breeding Fees/Bull Rental		0.86	1.58	1.53
	Trucking & Marketing Charg	es	16.76	11.09	15.75
	Fuel		12.31	10.80	9.38
8.	Repairs - Machine		14.62	9.09	6.57
	Repairs - Corrals & Building	S	7.99	3.58	4.52
	. Utilities & Miscellaneous Ex		24.05	16.38	17.81
11	. Custom Work & Specialized	Labour	4.11	6.48	6.60
	. Operating Interest Paid		3.87	3.01	2.07
13	. Paid Labour & Benefits		26.85	15.23	21.07
14	. Unpaid Labour		66.81	69.23	62.78
	Variable Costs		547.76	467.32	492.14
(C)					
1.	Share/Lease Cattle Paymen	ts	15.38	4.79	4.65
2.	Taxes, Water Rates, Lic. &	nsurance	7.85	5.25	4.93
3.	Equipment & Building a) D	epreciation	40.70	37.64	33.21
	b) Le	ease Payments	0.55	0.06	0.06
4.	Paid Capital Interest		11.67	14.23	10.73
	Total Capital Costs		76.15	61.96	53.59
(D)	Cash Costs	(B+C-B14-C3)	516.40	422.42	449.74
(E)	Total Production Costs	(B+C)	623.91	529.28	545.73
(F)	Gross Margin	(A-D)	42.09	198.31	151.08
	Return to Unpaid Labour	(A-D+B14)	1.40	160.68	117.87
	Return to Investment	(A-E+C4)	(53.74)	105.68	65.81
	Return to Equity	(A-E)	(65.41)	91.45	55.09
Total	Investment		1,715.39	1,682.63	1,607.32

Definitions & Explanations to Accompany the Cow/Calf Enterprise Overview

Production Stock Sales - revenues associated with the sale of weaned calves & other non-breeding stock related sales.

Value of Production (VOP) - the value of what was produced by the cow/calf enterprise over the course of the production year. Includes cash & non-cash values of:

cull & breeding stock sales, revenues from miscellaneous sources (eg. program payments, patronage refunds, etc.) as allocated to the cow/calf enterprise,

invéntory adjustments relating changes in g the number & value of stock included in

the enterprise, an adjustment for livestock purchases (value is added only from the point of g purchase forward)

Winter Feed Costs - the cost of all feeds used by the cow/calf enterprise, purchased or homegrown, based on the market value of these feeds (not the cost of raising the feeds).

<u>Pasture Costs</u> - the value of grazing used by the cow/calf enterprise (exclusive of any other retained ownership/backgrounding uses). Pasture is valued into the cow/calf enterprise at market value (not cost) & is treated as a "cash" cost.

Labour Costs - a sum of paid & contributed labour, as allocated to the cow/calf enterprise. Paid labour is valued at cost, while unpaid labour is valued at a standard or base cost.

Depreciation & Capital Lease Payments sum of depreciation & mach./equip't/ bldg. lease payments on assets allocated to the cow/calf enterprise.

Other Fixed Costs - total cash overheads, as allocated to the cow/calf enterprise (share/lease cattle payments, property taxes, insurances, licences & term loan interest).

Total Cash Costs sum of enterprise cash costs, considering home grown feeds, bedding & pasture as cash costs.

Total Production Costs - sum of all variable & fixed production costs.

Contribution Margin - VOP less Variable Costs

Gross Margin - VOP less Total Cash Costs

Return to Investment - VOP less Total Production Costs plus Term (Capital) Interest Paid

Return to Equity & Management - VOP less Total Production Costs

Investment - sum of assets allocated to the enterprise. breeding includes: stock, machinery, equip ment, buildings/facilities & building site (only).

Breeding Performance Rates

(adjusted for sales & purchases of bred cattle)

Conception Rate (%) - # Bred / # Exposed

Calving Rate (%) - # Livebirths / # Bred Females

Weaning Rate (%) - # Weaned / # Livebirths

Calf Crop (%) - # Weaned / # Exposed

Calved in 1st 2 Cycles (%) -# Calved Cycle 1 & 2 Total Calved

Total Lbs. Weaned # Females Exposed Lbs. Weaned/Cow Exposed -

Lbs. Weaned/Cow Wintered -Total Lbs. Weaned # Bred Females Wintered

Wean Wt. as % of Cow Wt. -Avg. Lbs. Weaned (adjusting bred heifer wts.) Avg. Mature Cow Wt.

Weight per Day of Age (lbs.) -Avg. Lbs. Weaned Wtd Avg Wean Age

Cows Wintered - Open Inventory of Bred Cows & Heifers

Cows / Bull - # Cows & Heifers Exposed / # Bulls Used

Labour Hours / Cow - Total Labour Hrs. / Cows Wintered

AUM's / Cow Wintered - Total Enterprise AUM's Cows Wintered

Feeding Season Days - Days Fed (in yard)

Tonnes Fed per Cow -

as-fed Tonnes Total Feed (As-Fed) # Cows Wintered

dry matter Tonnes Total Feed (Dry Matter) # Cows Wintered

GOLD Indicators

Growth (wean wt.) Total Lbs. Weaned

Calves Weaned

Open Cows (%) # Open Cows & Heifers

Exposed

Length of Calving Period -Days from 1st to last calf

Death Loss of Calves (%) -# Calves Died # Livebirths