AgriProfit#

Benchmarks for Alberta Cattlemen

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

Comparing:

Northern Alberta Total, Northern Alberta Low Cost, and 5 Year Northern Alberta Low Cost Management Groupings

(combining Peace Lowland & portions of Boreal Transition Grass Types)

Production Year - 2010

October, 2012



Economics & Competitiveness



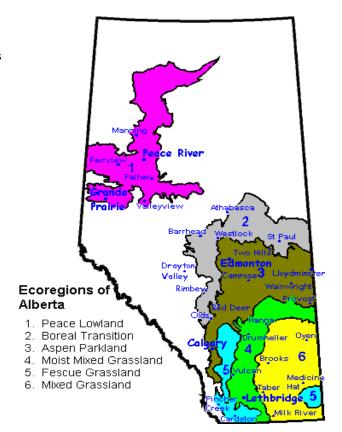
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This *AgriProfit*\$ Cost & Returns Report presents the productive, economic & financial performance of cow/calf producers in the Northern Region for the 2010 production year.

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

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

- a regional average including all *AgriProfit*\$ participants in the Peace Lowland & portions of the Boreal Transition grass types.
- an average of the "low cost" herds in the region during 2010. This "**Low Cost**" average includes the lower 50% of producers in the pool as ranked by total costs / lb. of calf weaned*.
- a five year average of the "low cost" herds in Northern Alberta. This long term average includes producers in the lower half of each year group as ranked by total costs / lb. of calf weaned.



Cost and returns profiles for common forage and grazing crops in the grass type / region are included in this benchmark report in order to put these profit centers into context with the cow herd profiles they support. A list of definitions for common terms employed in this benchmark report is also appended.

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 one specific grass type region. If you are interested in obtaining information on specific regions, please contact the Economics Unit at:

J.G. O'Donoghue Building #302, 7000 - 113 Street Edmonton, Alberta T6H 5T6 Tel: (780) 422-3771 Fax: (780) 427-5220

- * For this analysis total production cost **(TPC)** per lb. weaned was 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: Regional & top management groups had sufficient full farm 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 Alberta sample.

Dale A. Kaliel
Sr. Economist: Production Economics
Alberta Agriculture & Rural Development
October-12



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Historical Review of Alberta Cow/Calf Operations Economic, Financial & Productive Performance: 2006 - 2010

Benchmark Comparables: Northern Alta vs. '06-10 N. Alta 5 Year Low TPC Group Enterprise Type: Weaned-Calf

		N.AB 5Yr				
	2006	2007	2008	2009	2010	Low TPC
Weaned Calf Value	1.083	0.928	0.978	0.995	1.211	1.000
Winter Feed & Bedding Costs	0.443	0.426	0.475	0.432	0.543	0.344
Pasture Costs	0.343	0.386	0.389	0.400	0.349	0.360
Labour Costs	0.090	0.084	0.088	0.087	0.103	0.079
Other Variable Costs	0.148	0.163	0.138	0.131	0.122	0.125
Fixed Costs	0.072	0.085	0.081	0.075	0.076	0.058
Total Production Costs	1.095	1.144	1.170	1.126	1.192	0.966

Farm Financial Performance Indicators:

						N.AB 5Yr	
ROAD to Profitability	2006	2007	2008	2009	2010	Low TPC	
Risk (Debt to Asset Ratio)	0.16	0.17	0.18	0.25	0.19	0.20	
Operating Expense Ratio	0.62	0.68	0.61	0.60	0.55	0.56	
Asset Return	0.03	0.01	0.03	0.03	0.05	0.04	
D ebt Payout	5.17	9.52	4.53	6.60	3.67	4.22	
to Profitability The "3-C's"	76,585	32,364	77,982	68,611	128,101	97,059	
Current Ratio	2.92	3.11	3.09	2.18	3.73	4.14	1
Calif. Working Cap. Ratio	1.24	1.03	0.82	0.60	0.84	1.22	
Capital Turnover Rato	0.16	0.07	0.17	0.18	0.17	0.17	
Farm Size (Acres)	3,203	2,457	2,620	2,801	2,683	2,864	

Debt to Assets = Total Liabilites / Total Assets
Operating Expense Ratio = Operating Expenses / Value of Production
Return on Assets = Return on Assets / Total Farm Assets
Debt Payout = Total Liabilities / Net Farm Income
Profitability = Net Farm Income

Current Ratio = Current Assets / Current Liabilities
Calif. Working Cap. Ratio = Working Capital / Total Expenses
Capital Turnover = Value of Production / Total Farm Assets
Farm Size = Total Acres in crops, forages & grazing
(includes all acres owned, rented & leased)

Productive Performance Indicators:						N.AB 5Yr
	2006	2007	2008	2009	2010	Low TPC
Calf Crop (%)	85.3	82.4	84.3	85.5	84.5	86.7
Lbs. Weaned/Cow Wintered	545.2	503.4	529.4	501.9	570.4	548.6
Wean Wt as a % of Cow Wt.	41.9	41.3	43.0	41.3	46.5	43.6
Feeding Season Days	185.4	167.6	169.4	159.1	167.0	150.4
Tonnes Fed per Cow (as fed)	5.6	4.5	5.1	4.3	4.8	4.0
G rowth (weaning weight)	563.5	553.2	578.2	532.8	617.0	577.8
O pen Cows (%)	11.8	10.2	10.0	9.3	9.6	9.1
L ength of Calving Period	144.2	121.3	121.6	99.5	109.9	115.2
D eath Loss of Calves (%)	4.1	6.0	4.1	3.9	2.7	4.1

30%

20%

10%

< (0.45)

< (0.30)

< (0.15)

< 0.00

Profit Class: \$/Lb. Weaned

< 0.15



■N.Alta Total - '10

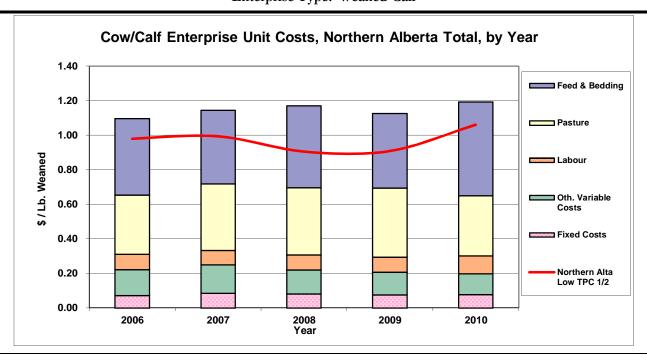
■N.AB 5Yr Low TPC

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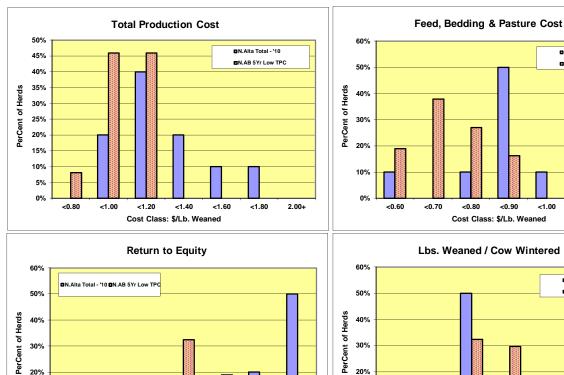
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Historical Review of Alberta Cow/Calf Operations (cont'd)

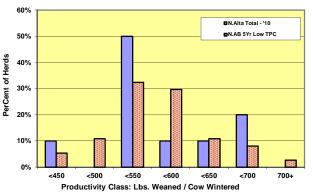
Benchmark Comparables: Northern Alta, by Year Enterprise Type: Weaned-Calf



Frequency Distributions: Selected Economic & Production Indicators, Northern Alberta Total, 2010 vs. 5 Year N. Alta Low Cost Group



0.30 +



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Economic & Physical Performance Comparisons

Benchmark Comparables: Northern Alta Total & Low Cost; N. Alta 5 Year Low TPC Groups

Enterprise Type: Weaned-Calf

Economic Performance Indicators:

	\$ / Lb. Weaned		
	No	orthern Alta	N.AB 5Yr
	Total	Low TPC	Low TPC
Production Stock Sales	1.211	1.200	1.001
Value of Production	1.515	1.566	0.986
Winter Feed Costs	0.509	0.397	0.332
Bedding Costs	0.034	0.015	0.012
Pasture Costs	0.349	0.377	0.360
Labour Costs	0.103	0.103	0.079
Other Variable Costs	0.122	0.103	0.125
Depreciation & Capital Lease Payments	0.062	0.052	0.043
Other Fixed Costs	0.014	0.012	0.015
Total Cash Costs	1.062	0.929	0.860
Total Production Costs	1.192	1.060	0.966
Contribution Margin	0.399	0.570	0.078
Gross Margin	0.454	0.637	0.126
Return to Investment	0.329	0.508	0.026
Return to Equity & Management	0.323	0.506	0.020
Total Investment (\$ / cow wintered)	1,730	1,673	1,321

Physical Performance Indicators:

	No	orthern Alta	N.AB 5Yr		No	orthern Alta	N.AB 5Yr
	Total	Low TPC	Low TPC		Total	Low TPC	Low TPC
Conception Rate (%)	87.3	89.2	89.8	Cows Wintered	170.8	158.7	200.8
Calving Rate (%)	99.5	100.2	100.1	Cows per Bull	21.5	24.3	25.7
Weaning Rate (%)	97.2	96.6	96.5	Labour Hours per Cow	5.1	5.2	4.1
Calf Crop (%)	84.5	86.3	86.7	AUM's/Cow Wintered	9.4	10.5	10.2
% Calved - 1st 2 Cycles	83.5	82.5	83.4	Feeding Season Days	167.0	142.8	150.4
Lbs. Weaned/Cow Exposed	521.3	512.5	500.7	Tonnes Fed per Cow			
Lbs. Weaned/Cow Wintered	570.4	565.8	548.6	- as-fed	4.8	4.1	4.0
Wean Wt as a % of Cow Wt.	46.5	45.7	43.6	- dry matter			
Weight per Day of Age (lbs.)	2.51	2.54	2.56				

	No	N.AB 5Y		
	Total	Total Low TPC		
G rowth (weaning weight)	617.0	593.9	577.8	
O pen Cows (%)	9.6	9.5	9.1	
L ength of Calving Period	109.9	107.6	115.2	
D eath Loss of Calves (%)	2.7	3.3	4.1	

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Economic & Financial Performance Comparisons

Benchmark Comparables: Northern Alta Total & Low Cost; N. Alta 5 Year Low TPC Groups

Enterprise Type: Weaned-Calf

Economic Performance Indicators:

	\$ / Cow Wintered			
	No	orthern Alta	N.AB 5Yr	
	Total	Low TPC	Low TPC	
Production Stock Sales	690.88	678.77	549.07	
Value of Production	864.39	886.07	541.05	
Winter Feed Costs	290.27	224.42	182.37	
Bedding Costs	19.22	8.60	6.40	
Pasture Costs	198.91	213.53	197.58	
Labour Costs	58.80	58.45	43.23	
Other Variable Costs	69.45	58.51	68.66	
Depreciation & Capital Lease Payments	35.13	29.18	23.66	
Other Fixed Costs	8.22	7.06	8.23	
Total Cash Costs	605.65	525.54	471.80	
Total Production Costs	680.01	599.74	530.13	
Contribution Margin	227.73	322.56	42.81	
Gross Margin	258.73	360.52	69.25	
Return to Investment	187.63	287.33	14.26	
Return to Equity & Management	184.38	286.32	10.91	

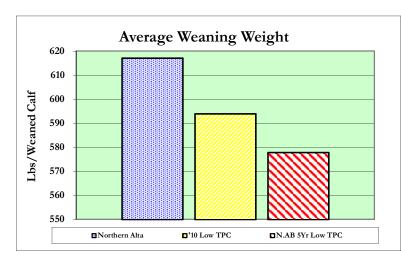
Financial Performance Indicators:

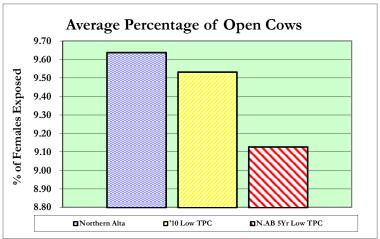
ROAD to Profitability	N	Northern Alta	N.AB 5Yr	
	Total	Low TPC	Low TPC	
Risk (Debt to Asset Ratio)	0.19	0.25	0.20	= Total Liabilites / Total Assets
Operating Expense Ratio	0.55	0.52	0.56	= Operating Expenses / Value of Production
A sset Return	0.05	0.05	0.04	= Return on Assets / Total Farm Assets
D ebt Payout	3.67	4.36	4.22	= Total Liabilities / Net Farm Income
to P rofitability	128,100.62	137,531.59	97,059.25	= Net Farm Income
The "3-C's"				
Current Ratio	3.73	4.36	4.14	= Current Assets / Current Liabilities
C alif. Working Cap. Ratio	0.84	0.93	1.22	= Working Capital / Total Expenses
Capital Turnover Rato	0.17	0.17	0.17	= Value of Production / Total Farm Assets
Farm Size (Acres)	2,683	2,590	2,864	= Total Acres in crops, forages & grazing (includes all acres owned, rented & leased)

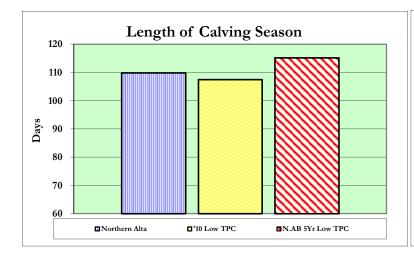


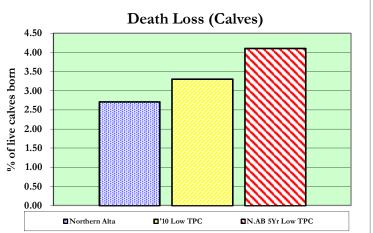
Physical Performance Comparisons

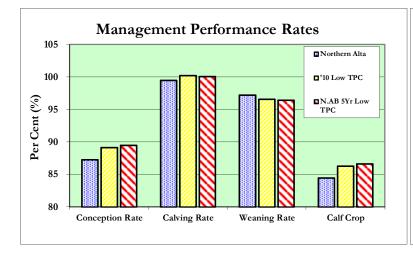
Benchmark Comparables: Northern Alta Total & Low Cost; N. Alta 5 Year Low TPC Groups

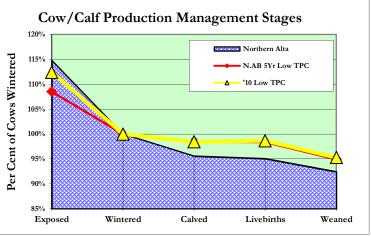








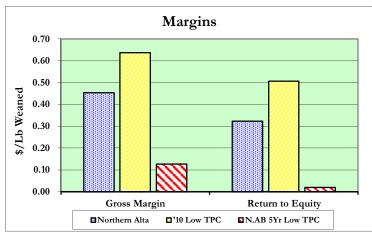


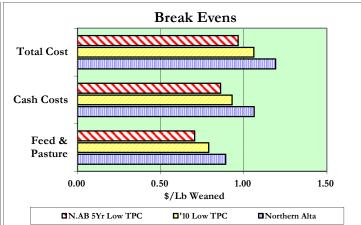


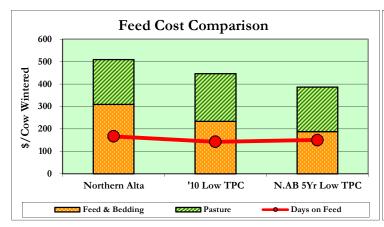


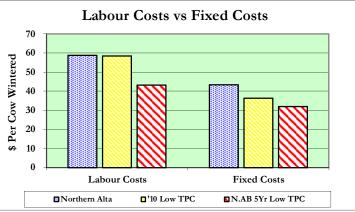
Economic Performance Comparisons

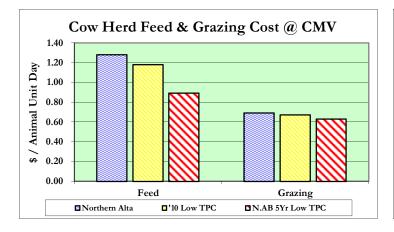
Benchmark Comparables: Northern Alta Total & Low Cost; N. Alta 5 Year Low TPC Groups

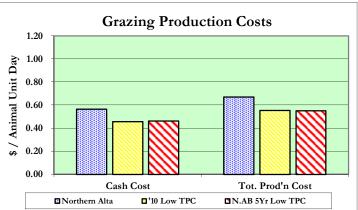














AgriProfit# Cow/Calf Enterprise Unit Cost & Returns Detail - 2010

Economic Performance Comparisons

		<u>Total</u>	orthern Alta Low TPC \$/Lb Weaned	N.AB 5Yr Low TPC
(A)				
	Weaned Calves	1.21	1.20	1.00
2. F	Feeder Calves	0.00	0.00	0.00
3. S	Slaughter Cattle	0.00	0.00	0.00
	Purebred Calves	0.00	0.00	0.00
	Baby Calves	0.00	0.00	0.00
	Cull Cows/Open Heifers	0.11	0.10	0.11
7. E		0.02	0.01	0.02
	Bred Cows/Bred Heifers	0.04	0.00	0.02
	Miscellaneous Receipts	0.00	0.00	0.00
	Government Programs	0.00	0.00	0.00
	nventory Adjustment	0.37	0.43	0.10
	Less: Cattle Purchases	0.23	0.48	0.10
12. [Value of Production	1.52	1.57	0.99
(B)	Value of Froudelion	1.52	1.57	0.55
	Winter Feed	0.51	0.40	0.33
	Bedding	0.03	0.40	0.01
	Pasture	0.35	0.38	0.36
_	/eterinary & Medicine	0.04	0.03	0.03
	Breeding Fees/Bull Rental	0.00	0.00	0.00
	Frucking & Marketing Charges	0.00	0.00	0.00
7. F		0.02	0.01	0.02
		0.02		
	Repairs - Machine		0.02	0.02
	Repairs - Corrals & Buildings	0.00	0.01	0.01
	Utilities & Miscellaneous Expenses	0.02	0.02	0.02
	Custom Work & Specialized Labour	0.00	0.00	0.00
	Operating Interest Paid	0.00	0.00	0.00
	Paid Labour & Benefits	0.03	0.02	0.01
14. (Jnpaid Labour	0.07	0.08	0.06
(0)	Variable Costs	1.12	1.00	0.91
(C)	N			0.00
	Share/Lease Cattle Payments	0.00	0.00	0.00
	Taxes, Water Rates, Lic. & Insurance	0.01	0.01	0.01
3. E	Equipment & Building a) Depreciation	0.06	0.05	0.04
	b) Lease Payments	0.00	0.00	0.00
4. F	Paid Capital Interest	0.01	0.00	0.01
	Total Capital Costs	80.0	0.06	0.06
(D) C	Cash Costs (B+C-B14-C3)	1.06	0.93	0.86
` '	Fotal Production Costs (B+C)	1.19	1.06	0.97
(-)	(BTO)	1.13	1.00	0.31
(F) (Gross Margin (A-D)	0.45	0.64	0.13
	Return to Unpaid Labour (A-D+B14)	0.40	0.59	0.08
F	Return to Investment (A-E+C4)	0.33	0.51	0.03
F	Return to Equity (A-E)	0.32	0.51	0.02



Cow/Calf Enterprise Unit Cost & Returns Detail - 2010

Economic Performance Comparisons

		<u>Total</u>	orthern Alta Low TPC - \$/Cow Wintered	N.AB 5Yr Low TPC
(A)			William William	
1. Weaned Calves		690.88	678.77	548.62
2. Feeder Calves		0.00	0.00	0.00
3. Slaughter Cattle		0.00	0.00	0.00
4. Purebred Calves		0.00	0.00	0.00
5. Baby Calves		0.00	0.00	0.45
6. Cull Cows/Open Heifers		61.52	55.85	61.62
7. Bulls		8.59	5.92	12.77
8. Bred Cows/Bred Heifers		25.06	2.28	8.69
9. Miscellaneous Receipts		0.30	0.53	0.73
10. Government Programs		1.70	2.34	1.33
11. Inventory Adjustment		208.80	243.64	52.97
12. Less: Cattle Purchases		132.47	103.25	146.14
Value of Production		864.39	886.07	541.05
(B)				
 Winter Feed 		290.27	224.42	182.37
2. Bedding		19.22	8.60	6.40
Pasture		198.91	213.53	197.58
4. Veterinary & Medicine		20.84	14.83	18.01
Breeding Fees/Bull Rental		0.00	0.00	0.10
Trucking & Marketing Charge	es	8.98	4.51	11.91
7. Fuel		12.42	12.99	10.61
8. Repairs - Machine		10.94	11.04	8.66
Repairs - Corrals & Buildings	3	2.57	3.20	3.56
10. Utilities & Miscellaneous Exp	enses	9.11	8.91	11.80
11. Custom Work & Specialized	Labour	2.30	2.53	2.54
12. Operating Interest Paid		2.28	0.50	1.47
Paid Labour & Benefits		17.36	13.43	7.79
14. Unpaid Labour		41.44	45.02	35.44
Variable Costs		636.66	563.51	498.24
(C)				
 Share/Lease Cattle Payment 	S	0.00	0.00	0.52
2. Taxes, Water Rates, Lic. & I		4.97	6.05	4.37
Equipment & Building a) De		32.92	29.18	22.90
b) Le	ase Payments	2.21	0.00	0.76
Paid Capital Interest		3.26	1.00	3.34
Total Capital Costs		43.35	36.24	31.89
(D) Cash Costs	(B+C-B14-C3)	605.65	525.54	471.80
(E) Total Production Costs	(B+C)	680.01	599.74	530.13
(F) Gross Margin	(A-D)	258.73	360.52	69.25
Return to Unpaid Labour	(A-D+B14)	225.82	331.34	46.35
Return to Investment	(A-E+C4)	187.63	287.33	14.26
Return to Equity	(A-E)	184.38	286.32	10.91
Total Investment		1,730.48	1,673.30	1,321.27



2010 Forage & Pasture Enterprise Cost & Returns Analysis Northern Alta

		Forages			Pastures Legume Tame		
		Legume	Mixed	Grain	/Grass	/Native	Swath
		/Grass Hay	Grass Hay	Silage	Pasture	Mixed	Grazing
	Average field size (acres)	54.3	37.0	53.7	87.9	185.9	69.4
	Number of Observations	28	8	10	7	37	7
	Trainibor or observations		\$/Tonne			\$/AUM	
(A) 1.	Crop Sales	77.78	68.21	42.47	21.24	22.32	20.57
`´2.	Crop Insurance Receipts	0.12	0.00	0.00	2.46	0.90	0.00
3.	Miscellaneous Receipts	0.00	0.00	0.00	0.00	0.00	0.00
4.	Government Programs	0.00	0.00	0.00	0.00	0.00	0.00
5.	Straw / Aftermath Grazing	2.33	1.59	0.12	0.00	0.00	0.00
	Gross Return	80.23	69.81	42.59	23.71	23.21	20.57
(B) 1.	Seed	0.00	0.00	2.33	0.00	0.00	3.24
2.	Fertilizer	5.18	10.03	7.00	0.00	0.00	8.06
3.	Chemicals	0.00	0.00	0.56	0.00	0.00	1.89
4.	Crop Insurance Premiums	0.02	0.00	1.63	0.58	0.35	0.41
5.	Trucking & Marketing	0.00	0.00	0.00	0.00	0.00	0.00
6.	Fuel	5.67	7.44	2.98	1.14	1.56	1.00
7.	Irrigation Fuel & Electricity	0.00	0.00	0.00	0.00	0.00	0.00
8.	Repairs - Machinery	6.49	8.26	2.11	1.20	1.40	0.56
9.	Repairs - Buildings	0.00	0.00	0.04	0.37	0.63	0.13
	Utilities & Misc. Expenses	3.30	3.42	1.03	0.39	0.81	0.13
	Custom Work & Specialized Labour	0.00	0.00	0.65	0.00	0.00	0.26
	Operating Interest Paid	0.35	1.20	0.26	0.09	0.13	0.01
	Paid Labour & Benefits	1.52 8.17	3.91	0.51	0.58	0.89	0.21
14.	Unpaid Labour Variable Costs	30.72	9.15 43.42	2.85 21.94	1.93 6.26	2.34 8.11	0.68 16.59
	Variable Costs	30.72	43.42	21.34	0.20	0.11	10.59
(C) 1.	Cash/Share Rent & Land Lease	17.83	21.93	2.15	1.94	13.30	0.00
2.	Taxes, Water Rates, Lic. & Insurance	2.41	4.08	0.68	1.20	1.69	0.39
3.	Equip. & Bldg. a) Depreciation	17.56	16.50	5.66	0.91	1.26	0.37
	b) Lease Payments	0.00	0.00	0.00	0.00	0.02	0.00
4.	Paid Capital Interest	1.01	0.97	1.50	0.66	0.93	0.12
	Total Capital Costs	38.81	43.48	9.98	4.71	17.21	0.88
(D)	Cash Costs (B+C-B14-C3)	43.79	61.25	23.41	8.13	21.72	16.42
(E)	Total Production Costs (B+C)	69.53	86.90	31.92	10.97	25.32	17.47
(F)	Gross Margin (A-D)	36.43	8.56	19.18	15.58	1.50	4.15
	Return to Unpaid Labour (A-E+B14)	18.87	(7.94)	13.52	14.67	0.24	3.78
	Return to Investment (A-E+C4)	11.70	(16.12)	12.17	13.39	(1.17)	3.22
	Return to Equity (A-E)	10.70	(17.09)	10.67	12.73	(2.11)	3.10
	Return on Investment (%)	2.3	(2.7)	9.2	3.6	(0.4)	2.3
	Total Investment (\$/acre)	716.42	680.54	866.64	763.29	290.20	660.51
	Management						
	Yield per Acre (tonnes or AUM's)	1.42	1.14	6.56	2.06	1.02	4.70
	Expected Market Price (\$/unit)	77.78	68.21	42.47	21.24	22.32	20.57

^{*} Cost and returns profiles include/combine all tenure types ... owned, rented & leased.

Definitions & Explanations to Accompany the Cow/Calf Enterprise Overview

<u>Production Stock Sales</u> – revenues associated with the sale of weaned calves & other **non-breeding stock** related sales.

<u>Value of Production (VOP)</u> – 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,
- inventory adjustments relating changes in the number & value of stock included in the enterprise,
- an adjustment for livestock purchases (value is added only from the point of purchase forward)

<u>Winter Feed Costs</u> – 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.

<u>Labour Costs</u> – 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.

<u>Depreciation & capital Lease Payments</u> – 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, licenses & term loan interest).

<u>Total Cash Costs</u> – sum of enterprise cash costs, considering home grown feeds, bedding & pasture as cash costs.

<u>Total Production Costs</u> – sum of all variable& fixed production costs.

Contribution Margin - VOP less Variable Costs

<u>Gross Margin</u> – VOP less Total Cash Costs

<u>Return to Investment</u> – VOP less Total Production Costs Plus Term (Capital) Interest Paid

<u>Return to Investment</u> – VOP less Total Production Costs Plus Term (Capital) Interest Paid

<u>Return to Equity & Management</u> – VOP less Total Production Costs.

<u>Investment</u> – sum of assets allocated to the enterprise. Includes: breeding stock, machinery, equipment, 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 / # Exposed

<u>Calved in 1st 2 Cycles (%)</u> - # Calved Cycle 1 & 2

Total Calved

<u>Lbs, Weaned/Cow Exposed</u> - <u>Total Lbs. Weaned</u>

Females Exposed

<u>Lbs. Weaned/Cow Wintered</u> - <u>Total Lbs. Weaned</u>

Bred Females Exposed

Weaned Wt. As % of Cow Wt. - As (adjusting bred heifer wts.)

Avg. Lbs. Weaned 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 / Bulls - # 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.) - <u>Total Lbs.Weaned</u>

Calves Weaned

Open Cows (%) - # Open Cows & Heifers

Exposed

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

Death Loss of Calves (%) - # Calves Died

Live Births