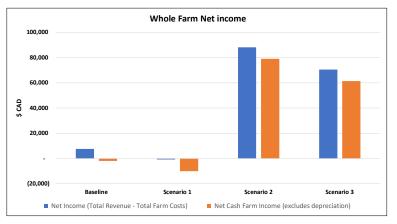


Baseline Farm Description	Start-up, stand-alone operation with no dairy, using milk replacer, taking calves to 600 lbs (facilities developed)
Ration (lb/head/day as fed)	35 days 0.7 kg milk replacer and 0.6 kgs calf starter (increasing to 1kg by end), followed by 140 days of 4.2 kg whole corn and 1.25 kg pellet supplement with a transition period between rations
Scenario 1	Change ADG from 2.35 to 2.2lb, selling about 5 groups per year.
Scenario 2	Change ADG from 2.35 to 2.9lb. Selling 6 groups per year.
Scenario 3	Change ADG from 2.35 to 2.9lb. Selling 6 groups per year. Stocking density reduces by 10%.
Summary	Anything above 2.8 lbs/day resulted in 6 groups sold per year, positively impacting economies of scale with less overhead costs per head.
Disclaimer:	This benchmark is based on 3 farms of data; outliers were excluded as required

5.5°C
900-1150 mm
PRINCE EDWARD
ISLAND

Physical Performance Indicators	
Breed	Holstein
Sale date	Year Round
Retained ownership	Dairy Calves
% of feed purchased	N/A
Annual sales of Cattle (no. head)	402
Placement weight (lbs)	90.0
Sale Weight (lbs)	600
Days on Feed	175
Average Daily Gain (lbs/day)	2.35

Financial Descriptor	
Operation Maturity	Starter



Whole Farm Overview	Baseline	Scenario 1	Scenario 2	Scenario 3
Market Revenue				
Dairy-Beef Reciepts	318,048	304,950	397,980	356,400
Crop Market Receipts	5,969	4,936	11,422	17,895
Other Farm Revenue +	-	-	-	-
Total Revenue	324,017	309,886	409,402	374,295
Expenses	Baseline	Scenario 1	Scenario 2	Scenario 3
Direct costs enterprises	258,853	252,964	271,087	253,172
Overhead costs	25,834	25,834	25,834	25,834
Paid labour	8,268	8,268	8,268	8,268
Rents paid	3,548	3,548	3,548	3,548
Interest paid	20,284	20,284	12,581	12,991
Depreciation	9,089	9,089	9,089	9,089
Total Farm Costs	325,877	319,988	330,408	312,903
Profits	Baseline	Scenario 1	Scenario 2	Scenario 3
Net Income (Total Revenue - Total Farm Costs)	7,565	(845)	88,084	70,481
Net Cash Farm Income (excludes depreciation)	(1,860)	(10,102)	78,997	61,392

Cost of Production: Cosh Cost + Depreciation + Opportunity Costs

Cash Costs = Cash cost for purchased feed, fertiliser, seeds, fuel, maintenance, land rents, 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.

 $Whole \ Farm \ Net \ Income = Whole \ farm \ profitability + depreciation + changes \ in inventory + capital \ gains/losses. \ Known \ as: \ 'Net \ farm \ income' \ (Agri \ Profits, \ 2018) \ (Agri \ Profits,$ Revenue = sales of calves, cull cows, breeding stock, government payments and other revenue applicable to the specific enterprise NOTE: Feed costs are based on cost of producing if homegrown.



FINISHING	Baseline	Scenario 1	Scenario 2	Scenario 3
No. of beef cattle sold per year	322	308	402	360
Note: breeding stock sales are in the cow-calf enterprise				
REVENUE (\$/head Sold)	Baseline	Scenario 1	Scenario 2	Scenario 3
Market Returns from Retained Ownership	990.00	990.00	990.00	990.00
Other Returns (Government payments, by-products)	-	-	-	-
Total	990.00	990.00	990.00	990.00
Costs (\$/head Sold)	Baseline	Scenario 1	Scenario 2	Scenario 3
VARIABLE COSTS				
Animal purchases	201.01	193.28	193.28	195.42
Feed (purchase feed, fertiliser, seed, pesticides)	538.96	566.83	412.42	438.51
Machinery (maintenance, depreciation, contractor)	14.85	15.53	11.77	13.14
Fuel, energy, lubricants, water	46.39	48.63	36.27	39.68
Vet & medicine	33.77	33.08	32.85	33.17
Other inputs	46.68	46.40	43.47	44.54
Labour				
Paid Labour	25.97	27.14	20.57	22.97
Unpaid Labour	106.46	111.29	84.33	94.16
Total Variable Costs	1,014.10	1,042.18	834.95	881.59
CAPITAL COSTS				
Insurance, taxes	10.07	10.55	7.89	8.63
Buildings (maintenance, depreciation)	27.52	28.79	21.81	24.36
Land Cost				
Rented Land	11.17	11.67	8.83	9.86
Owned Land	2.49	2.60	1.97	2.20
Capital Costs				
Liabilities	2.17	2.25	1.55	1.65
Own capital	2.17	2.25	1.55	1.65
Total Capital Costs	55.58	58.12	43.59	48.33
TOTAL COSTS	Raseline	Scenario 1	Scenario 2	Scenario 3

TOTAL COSTS	Baseline	Scenario 1	Scenario 2	Scenario 3
Cash Costs	930.03	954.32	768.09	806.67
Depreciation Costs	28.53	29.84	22.61	25.25
Opportunity Costs	108.95	113.89	86.29	96.36
Total Production Costs (excludes own capital)	1,067.51	1,098.05	876.99	928.28

Profits	Baseline	Scenario 1	Scenario 2	Scenario 3
Margin over operating costs	1.02	1.11	0.84	0.94
Short-term profit (cash costs)	59.97	35.68	221.91	183.33
Medium-term profit (cash + depreciation)	31.44	5.83	199.30	158.08
Long-term profit (cash + depreciation + opportunity)	(77.51)	(108.05)	113.01	61.72

Net Income (\$/head sold)	Baseline	Scenario 1	Scenario 2	Scenario 3
Net Income	(30.49)	(58.70)	170.40	125.33
Net Cash Farm Income	(0.52)	(27.79)	193.00	150.58

Labour					
Paid Labour	hours per year	500	500	500	500
Unpaid Labour	hours per year	2,050	2,050	2,050	2,050
Return to labour input	\$/hour	8	5	34	25
Average wages (paid and calculated)	\$/hour	17	17	17	17

Net Income (annual total)		Baseline	Scenario 1	Scenario 2	Scenario 3
Net Income	\$ per year	(7,109)	(14,415)	68,499	45,120
Net Cash Farm Income	\$ per year	2,315	(5,158)	77,586	54,209

