

District 11-Projected Cow-Calf Enterprise Budget-2004 100 Breeding Cow Herd on Improved Pasture

This budget is based on a 100-cow breeding herd, with a cow to bull ratio of 25:1. This budget is based on a breeding cow unit, which is defined as the breeding cow, her calf and her share of any costs associated with the bulls. Replacement heifers are not retained, and replacement cost is represented by the estimated capital recovery cost for cows.

The calf crop budgeted in this enterprise is 86% based on 100 cows exposed, with all steer and heifer calves sold. The budgeted income from the calf crop is based on 43 head of heifers sold that are priced at \$100/cwt with a pay weight of 4.5 cwt/head, along with 43 head of steer calves sold that are priced \$111/cwt with a pay weight of 4.75 cwt/head. The budgeted income from culled breeding livestock includes the sale of one cull bull per year priced at \$60/cwt with a pay weight of 16 cwt/head along with the sale of 15 cull cows priced at \$44/cwt with a pay weight of 9 cwt/head.

The budgeted stocking rate for this enterprise is four acres of improved pasture per breeding cow unit. The budgeted pasture maintenance program includes soil testing, fertilization, chemical weed control and mechanical weed control. Detailed information on pasture maintenance practices and costs related to pasture maintenance are shown in Table 9.a. Diesel for fuel is budgeted at \$1.10 per gallon.

The supplemental nutrition, salt and mineral program includes hay, protein supplement along with salt and mineral. Supplemental feeding is budgeted for a 120-day period beginning December 1 and ending March 31. Feeding and herd maintenance labor is budgeted at two hours per day during the feeding period and one hour per day during the balance of the year. The owner labor budgeted for feeding and herd maintenance is charged at \$5.50 per hour. Detailed information on supplemental nutrition, salt and mineral program practices and costs related to supplemental nutrition, salt and mineral program are shown in Table 8.a. In addition, pickup truck costs are included in the budget for feeding and herd maintenance. These costs are based on a truck valued at \$21,500, with 25% of the annual total budgeted truck usage of 18,000 miles charged to herd over a six-year useful life Gasoline for fuel is budgeted at \$1.50 per gallon.

The budgeted herd health maintenance program is shown in Tables 5.a and 6.a. The budgeted herd health maintenance program is presented only as general guide, and should not be used as a replacement for recommendations from local veterinarians. The budgeted herd health program includes two cattle workings, with two-day labors hired for each working and charged at \$120 per day.

Fixed costs specified in the budget include annual capitalized recovery values for machinery and breeding livestock along with overhead, insurance and taxes. The annual capitalized recovery charge for the bulls is based on a purchase price of \$1,500 per head and a useful life of four years. The annual capitalized recovery charge for the cows is based on a purchase price or initial value of \$650 per head and useful life of seven years. The intermediate term interest rate used in calculating the capital recovery factor for machinery and breeding livestock is budgeted at 5.75%. General overhead costs are budgeted at \$1200 for the total herd per year.

4/14/04.

Estimated Costs and Returns
Cow-Calf Enterprise 100-cow herd
2004 Projected Costs and Returns - TCE District 11

ITEM	UNIT	PRICE	QUANTITY	Herd Total	Per Cow Unit
INCOME					
Steer Calves	head	\$ 530.00	43	\$ 22,790.00	\$ 227.90
Heifer Calves	head	\$ 450.00	43	\$ 19,350.00	\$ 193.50
Cull Cows	head	\$ 396.00	15	\$ 5,940.00	\$ 59.40
Cull Bulls	head	\$ 960.00	1	\$ 960.00	\$ 9.60
TOTAL INCOME				\$ 49,040.00	\$ 490.40
DIRECT EXPENSES					
<i>CUSTOM</i>					
Soil Testing	acre	\$ 0.20	400	\$ 80.00	\$ 0.80
Custom Spread(Truck)	appl	\$ 3.50	400	\$ 1,400.00	\$ 14.00
<i>FEED</i>					
Hay	Roll	\$ 30.00	253	\$ 7,590.00	\$ 75.90
20% Protein Cube	cwt	\$ 9.75	484	\$ 4,719.00	\$ 47.19
<i>FERTILIZER</i>					
Urea (46%N)	cwt	\$ 11.50	440	\$ 5,060.00	\$ 50.60
Phosphate (46% P2O5)	cwt	\$ 11.73	100	\$ 1,173.00	\$ 11.73
Potash (60% K2O)	cwt	\$ 9.25	60	\$ 555.00	\$ 5.55
<i>HERBICIDE</i>					
Grazon P+D	pt	\$ 3.43	600	\$ 2,058.00	\$ 20.58
<i>MARKET/GRADE</i>					
Marketing Cost	%	\$ 49,040.00	4%	\$ 1,961.60	\$ 19.62
Check-off	head	\$ 1.00	102	\$ 102.00	\$ 1.02
<i>SALT AND MINERALS</i>					
Salt and Mineral	lb	\$ 0.22	6837	\$ 1,504.14	\$ 15.04
<i>VETERINARY MEDICINE</i>					
IBR/PI-3/BVD/BRSV	dose	\$ 1.75	276	\$ 483.00	\$ 4.83
8-Way Clostridials	dose	\$ 0.42	294	\$ 123.48	\$ 1.23
Dewormer-Avermectin	dose	\$ 4.00	190	\$ 760.00	\$ 7.60
Vibrio	dose	\$ 0.54	104	\$ 56.16	\$ 0.56
Pasturella+8way clos	dose	\$ 2.40	86	\$ 206.40	\$ 2.06
Lepto-5	dose	\$ 0.24	104	\$ 24.96	\$ 0.25
Dewormer-Albendazole	dose	\$ 2.40	104	\$ 249.60	\$ 2.50
<i>HEALTH MANAGEMENT</i>					
Implants	head	\$ 1.20	86	\$ 103.20	\$ 1.03
Fly Control	head	\$ 3.25	100	\$ 325.00	\$ 3.25
Pregnancy Check	head	\$ 2.50	100	\$ 250.00	\$ 2.50
Bull Exam.	head	\$ 40.00	4	\$ 160.00	\$ 1.60
<i>OPERATOR LABOR</i>					
Tractors	hour	\$ 9.00	62.8	\$ 565.20	\$ 5.65
<i>OWNER LABOR</i>					
Special Labor	hour	\$ 5.50	486	\$ 2,673.00	\$ 26.73
<i>DAY LABOR</i>					
Special Labor	Day	\$ 120.00	4	\$ 480.00	\$ 4.80
<i>DIESEL FUEL</i>					
Tractors	gal	\$ 1.10	242.4331	\$ 266.68	\$ 2.67
<i>GASOLINE</i>					
Truck 1/2 ton	gal	\$ 1.50	214.7003	\$ 322.05	\$ 3.22
<i>REPAIR & MAINTENANCE</i>					
Implements	herd	\$ 156.00	1	\$ 156.00	\$ 1.56
Tractors	herd	\$ 128.00	1	\$ 128.00	\$ 1.28
Truck 1/2 ton	mile	\$ 0.08	3650	\$ 292.00	\$ 2.92
INTEREST ON OP. CAP.	herd	\$ 1,068.72	1	\$ 1,068.72	\$ 10.69
TOTAL DIRECT EXPENSES				\$ 34,896.19	\$ 348.96
RETURNS ABOVE DIRECT EXPENSES				\$ 14,143.81	\$ 141.44
FIXED EXPENSES					
Implements	herd	\$ 240.00	1	\$ 240.00	\$ 2.40
Tractors	herd	\$ 292.00	1	\$ 292.00	\$ 2.92
Truck 1/2 ton	each	\$ 3,717.66	0.25	\$ 929.42	\$ 9.29
Bulls	each	\$ 430.41	4	\$ 1,721.64	\$ 17.22
Insurance & Taxes	each	\$ 793.13	1	\$ 793.13	\$ 7.93
General Overhead	each	\$ 1,269.00	1	\$ 1,269.00	\$ 12.69
Cows	each	\$ 115.41	100	\$ 11,541.00	\$ 115.41
TOTAL FIXED EXPENSES				\$ 16,786.19	\$ 167.86
TOTAL SPECIFIED EXPENSES				\$ 51,682.38	\$ 516.82
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				\$ (2,642.38)	\$ (26.42)

Projections for Planning Purposes Only

Table 1.A Estimated resource use and costs for field operations, per herd
 Cow-Calf Enterprise 100-cow herd
 2004 Projected Costs and Returns - TCE District 11

OPERATING INPUT	UNIT	TIMES		-----dollars-----		dollars		-----dollars-----			TOTAL COST	
		OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT		PRICE
DAY LABOR	Day	1.00	May					2.00	240.00			240.00
DAY LABOR	Day	1.00	Oct					2.00	240.00			240.00
Check-off	head									102.0000	1.00	102.00
Truck 1/2 ton	each	1.00	Jan				929.42			0.2500		929.42
Variable Costs	mile	1.00	Dec		612.70					3650.0000		612.70
Insurance & Taxes	each	1.00	Jan				793.12			1.0000		793.12
General Overhead	each	1.00	Jan				1269.00			1.0000		1269.00
Bulls	each	1.00	Dec				1721.65			4.0000		1721.65
Cows	each	1.00	Dec				11540.52			100.0000		11540.52
Supplemental Feed	herd		Jan					486.00	2673.00	1.0000	13813.14	16486.14
Pasture Maintenance	acre		Mar	396.00	292.00	156.00	240.00	62.80	564.00	400.0000	10328.00	11976.00
Veterinary Medicine	herd		May							1.0000	1903.60	1903.60
Health Management	herd		May							1.0000	838.20	838.20
TOTALS				396.00	292.00	768.70	16493.71	552.80	3717.00		26984.94	48652.35
INTEREST ON OPERATING CAPITAL												1068.72
UNALLOCATED LABOR												0.00
TOTAL SPECIFIED COST												49721.07

Projections for Planning Purposes Only

Table 8.A Estimated resource use and costs for field operations, per herd
 Supplemental Nutrition, Salt & Mineral 100-cow herd
 2004 Projected Costs - TCE District 11

OPERATING INPUT	UNIT	TIMES		-----dollars-----		-----dollars-----		-----dollars-----			TOTAL COST		
		OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT		PRICE	COST
OWNER LABOR	hour	1.00	Jan					62.00	341.00				341.00
Hay	Roll									65.0000	30.00	1950.00	1950.00
20% Protein Cube	cwt									124.0000	9.75	1209.00	1209.00
Salt and Mineral	lb									580.0000	0.22	127.60	127.60
OWNER LABOR	hour	1.00	Feb					56.00	308.00				308.00
Hay	Roll									58.0000	30.00	1740.00	1740.00
20% Protein Cube	cwt									112.0000	9.75	1092.00	1092.00
Salt and Mineral	lb									525.0000	0.22	115.50	115.50
OWNER LABOR	hour	1.00	Mar					62.00	341.00				341.00
Hay	Roll									65.0000	30.00	1950.00	1950.00
20% Protein Cube	cwt									124.0000	9.75	1209.00	1209.00
Salt and Mineral	lb									580.0000	0.22	127.60	127.60
OWNER LABOR	hour	1.00	Apr					30.00	165.00				165.00
Salt and Mineral	lb									563.0000	0.22	123.86	123.86
OWNER LABOR	hour	1.00	May					31.00	170.50				170.50
Salt and Mineral	lb									580.0000	0.22	127.60	127.60
OWNER LABOR	hour	1.00	Jun					30.00	165.00				165.00
Salt and Mineral	lb									563.0000	0.22	123.86	123.86
OWNER LABOR	hour	1.00	Jul					31.00	170.50				170.50
Salt and Mineral	lb									580.0000	0.22	127.60	127.60
OWNER LABOR	hour	1.00	Aug					31.00	170.50				170.50
Salt and Mineral	lb									580.0000	0.22	127.60	127.60
OWNER LABOR	hour	1.00	Sep					30.00	165.00				165.00
Salt and Mineral	lb									563.0000	0.22	123.86	123.86
OWNER LABOR	hour	1.00	Oct					31.00	170.50				170.50
Salt and Mineral	lb									580.0000	0.22	127.60	127.60
OWNER LABOR	hour	1.00	Nov					30.00	165.00				165.00
Salt and Mineral	lb									563.0000	0.22	123.86	123.86
OWNER LABOR	hour	1.00	Dec					62.00	341.00				341.00
Hay	Roll									65.0000	30.00	1950.00	1950.00
20% Protein Cube	cwt									124.0000	9.75	1209.00	1209.00
Salt and Mineral	lb									580.0000	0.22	127.60	127.60
TOTALS						0.00	0.00	0.00	0.00	486.00	2673.00		
INTEREST ON OPERATING CAPITAL												13813.14	16486.14
UNALLOCATED LABOR													633.24
TOTAL SPECIFIED COST													0.00
													17119.38

Projections for Planning Purposes Only

Table 5.A Estimated resource use and costs for field operations, per herd
 Veterinary Medicine - 100-cow herd
 2004 Projected Costs - TCE District 11

OPERATING INPUT	UNIT	TIMES		-----dollars-----		-----dollars-----		-----dollars-----		TOTAL COST			
		OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST		AMOUNT	PRICE	COST
Cows		1.00	May										
IBR/PI-3/BVD/BRSV	dose									100.0000	1.75	175.00	175.00
8-Way Clostridials	dose									100.0000	0.42	42.00	42.00
Dewormer-Avermectin	dose									100.0000	4.00	400.00	400.00
Vibrio	dose									100.0000	0.54	54.00	54.00
Calves		1.00	May										
8-Way Clostridials	dose									86.0000	0.42	36.12	36.12
IBR/PI-3/BVD/BRSV	dose									86.0000	1.75	150.50	150.50
Bulls		1.00	May										
IBR/PI-3/BVD/BRSV	dose									4.0000	1.75	7.00	7.00
Vibrio	dose									4.0000	0.54	2.16	2.16
Dewormer-Avermectin	dose									4.0000	4.00	16.00	16.00
8-Way Clostridials	dose									4.0000	0.42	1.68	1.68
Calves		1.00	Oct										
Pasturella+8way clos	dose									86.0000	2.40	206.40	206.40
IBR/PI-3/BVD/BRSV	dose									86.0000	1.75	150.50	150.50
Dewormer-Avermectin	dose									86.0000	4.00	344.00	344.00
Cows		1.00	Oct										
8-Way Clostridials	dose									100.0000	0.42	42.00	42.00
Lepto-5	dose									100.0000	0.24	24.00	24.00
Dewormer-Albendazole	dose									100.0000	2.40	240.00	240.00
Bulls		1.00	Oct										
8-Way Clostridials	dose									4.0000	0.42	1.68	1.68
Lepto-5	dose									4.0000	0.24	0.96	0.96
Dewormer-Albendazole	dose									4.0000	2.40	9.60	9.60
TOTALS						0.00	0.00	0.00	0.00	0.00			1903.60
INTEREST ON OPERATING CAPITAL													30.32
UNALLOCATED LABOR													0.00
TOTAL SPECIFIED COST													1933.92

Projections for Planning Purposes Only

Table 6.A Estimated resource use and costs for field operations, per herd
 Health Management 100 cow-herd
 2004 Projected Costs - TCE District 11

OPERATING INPUT	UNIT	TIMES		-----dollars-----		-----dollars-----		-----dollars-----		TOTAL COST			
		OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST		AMOUNT	PRICE	COST
Health Management		1.00	May										
Implants	head									86.0000	1.20	103.20	103.20
Fly Control	head									100.0000	3.25	325.00	325.00
Pregnancy Check	head									100.0000	2.50	250.00	250.00
Bull Exam.	head									4.0000	40.00	160.00	160.00
TOTALS				0.00	0.00	0.00	0.00	0.00	0.00			838.20	838.20
INTEREST ON OPERATING CAPITAL													24.10
UNALLOCATED LABOR													0.00
TOTAL SPECIFIED COST													862.30

Projections for Planning Purposes Only

Table 9.A Estimated resource use and costs for field operations, per acre
 Permanent summer pasture maintenance
 2004 Projected Costs and Returns per Acre - TCE District 11

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre		1.00		Apr							1.0000	0.20	0.20	0.20
Custom Spread(Truck)	appl		1.00		Apr							1.0000	3.50	3.50	3.50
Urea (46%N)	cwt											1.1000	11.50	12.65	12.65
Phosphate (46% P2O5)	cwt											0.2500	11.73	2.93	2.93
Potash (60% K2O)	cwt											0.1500	9.25	1.39	1.39
Grazon P+D	pt											1.5000	3.43	5.15	5.15
Rotary Mower	10.5'	2WD 75	0.157	1.00	Aug	0.99	0.73	0.39	0.60	0.15	1.41				4.12
TOTALS						0.99	0.73	0.39	0.60	0.15	1.41			25.82	29.94
INTEREST ON OPERATING CAPITAL															0.91
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															30.85

Projections for Planning Purposes Only

Table 9. Operating Inputs

RECORD			
NUM	ITEM NAME	UNIT	PRICE
CUSTOM			
10	Custom Spread(Truck)	appl	3.50
110	Soil Testing	acre	0.20
FEED			
159	20% Protein Cube	cwt	9.75
157	Hay	Roll	30.00
FERTILIZER			
31	Phosphate (46% P2O5)	cwt	11.73
32	Potash (60% K2O)	cwt	9.25
50	Urea (46%N)	cwt	11.50
HEALTH MANAGEMENT			
140	Bull Exam.	head	40.00
138	Fly Control	head	3.25
137	Implants	head	1.20
139	Pregnancy Check	head	2.50
HERBICIDE			
118	Grazon P+D	pt	3.43
MARKET/GRADE			
127	Check-off	head	1.00
SALT AND MINERALS			
130	Limestone	cwt	6.14
158	Salt and Mineral	lb	0.22
VETERINARY MEDICINE			
154	8-Way Clostridials	dose	0.42
156	Dewormer-Albendazole	dose	2.40
133	Dewormer-Avermectin	dose	4.00
151	IBR/PI-3/BVD/BRSV	dose	1.75
153	Lepto-5	dose	0.24
155	Pasturella+8way clos	dose	2.40
152	Vibrio	dose	0.54
