

## Beef Cows Spring Calving - Hay Ration

100 COWS & BRED HEIFERS

90 % CONCEPTION RATE

85 % WEANED CALVES PER COW EXPOSED

40 COWS PER BULL

30 % of Heifers Weaned Kept as Replacements

14 % ANNUAL CULLING RATE

1.0 % ANNUAL COW DEATH LOSS

ITEM	HEAD	CWT	UNIT	PRICE	QUANTITY	TOTAL	Your Farm
<b>1. GROSS RECEIPTS</b>							
Steers	43 @	6.00	Cwt	\$115.00	258.00	\$29,670.00	_____
Heifers	29 @	5.50	Cwt	\$105.00	159.50	\$16,747.50	_____
Cull Cows & Heifers	13 @	11.50	Cwt	\$50.00	149.50	\$7,475.00	_____
Cull Bull	1 @	17.00	Cwt	\$65.00	17.00	\$1,105.00	_____
<b>2. TOTAL GROSS RECEIPTS</b>					<b>\$549.98 Per Cow</b>	<b>\$54,997.50</b>	_____
<b>3. VARIABLE COSTS</b>							
Feed Loss							
Corn Silage	5.0%		Ton	\$45.00	0.00	\$0.00	_____
Alfalfa Hay, Bloom	5.0%		Ton	\$180.00	0.00	\$0.00	_____
Mixed Hay, 2nd Cutting	5.0%		Ton	\$150.00	0.00	\$0.00	_____
Grass Hay, Average	10.0%		Ton	\$100.00	208.79	\$20,879.10	_____
Corn Grain	2.0%		Bushel	\$5.50	958.86	\$5,273.73	_____
SBOM 48%	2.0%		Ton	\$395.00	0.00	\$0.00	_____
Other Feed	5.0%		Ton	\$0.00	0.00	\$0.00	_____
Grinding & Mixing			Cwt	\$1.40	0.00	\$0.00	_____
Salt & Mineral	68.00	Lbs per Cow	Cwt	\$22.00	68.00	\$1,496.00	_____
Vet & Medicine		\$/Head	Head	\$24.03	100	\$2,403.28	_____
Supplies			Head	\$2.00	100	\$200.00	_____
Replacement Bull			Head	\$2,500.00	1	\$2,500.00	_____
Stockpiled Pasture		Acres per Cow	Acre	\$51.00	0	\$0.00	_____
Pasture	2.50	Acres per Cow	Acre	\$21.00	250	\$5,250.00	_____
Haul Cull Cattle			Head	\$5.20	14	\$72.80	_____
Market Cull Cattle		\$/Head	Head	\$15.26	14	\$213.60	_____
Haul Calves			Head	\$3.75	72	\$270.00	_____
Market Calves		\$/Head	Head	\$16.39	72	\$1,180.35	_____
Building & Fence Repairs			Head	\$14.40	100	\$1,440.00	_____
Utilities			Head	\$3.29	100	\$329.00	_____
Other,(insurance etc.)			Head	\$5.72	100	\$572.00	_____
Machinery (Non-Crop)			Head	\$14.91	100	\$1,491.00	_____
Labor	8	Hours per Cow	Hours	\$0.00	800	\$0.00	_____
Operating Interest	6	Months	Dollars	7.00%	\$ 41,834	\$1,464.19	_____
<b>4. TOTAL VARIABLE COSTS</b>					<b>\$450.35 Per Cow</b>	<b>\$45,035.05</b>	_____
<b>5. ANNUAL DEBT PAYMENTS</b>						<b>\$0.00</b>	_____
<b>6. PROJECTED NET RETURN TO EQUITY, MANAGEMENT, &amp; FAMILY LABOR</b>					<b>\$99.62 Per Cow</b>	<b>\$9,962.45</b>	_____

### 7. Price Sensitivity Analysis

		Percent Change in Total Gross Receipts						
		-25%	-10%	-5%	0%	5%	10%	25%
		--- Net Cash Return over Total Variable Costs per Cow ---						
Percent	-10%	\$7.17	\$89.66	\$117.16	\$144.66	\$172.16	\$199.66	\$282.15
Change in	-5%	(\$15.35)	\$67.14	\$94.64	\$122.14	\$149.64	\$177.14	\$259.64
Total Variable	0%	(\$37.87)	\$44.63	\$72.13	\$99.62	\$127.12	\$154.62	\$237.12
Costs	5%	(\$60.39)	\$22.11	\$49.61	\$77.11	\$104.61	\$132.10	\$214.60
	10%	(\$82.90)	(\$0.41)	\$27.09	\$54.59	\$82.09	\$109.59	\$192.08
	25%	(\$150.46)	(\$67.96)	(\$40.46)	(\$12.96)	\$14.54	\$42.03	\$124.53

5% Table Sensitivity

8. FEED RATIONS (AS-FED BASIS)

Feed	Unit	Cows	Bulls	Calves	Yearling Heifers	1 <sup>st</sup> Calf Heifers	Additional Head	Total Quantity (Tons)
		Number Head =						
		87	3	85	14	13	0	
		Days Fed =	135	135	0	135	135	0
Corn Silage	Lbs/Head/Day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Alfalfa Hay, Bloom	Lbs/Head/Day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mixed Hay, 2nd Cutting	Lbs/Head/Day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grass Hay, Average	Lbs/Head/Day	26.00	32.00	0.00	12.00	22.00	0.00	189.81
Corn Grain	Lbs/Head/Day 56	2.75	3.35	0.00	6.10	4.25	0.00	26.32
SBOM 48%	Lbs/Head/Day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Feed	Lbs/Head/Day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

9. ANNUAL DEBT SERVICE

Item	Amount Borrowed	Percent Interest	Length of Loan	Percent to Beef	Annual Payment
Heifers	0	10.00%	0	100%	\$0.00
Item Name	0	0.00%	0	100%	\$0.00
Item Name	0	0.00%	0	100%	\$0.00

TOTAL ANNUAL DEBT PAYMENTS

\$0.00

10. ANIMAL HEALTH PROGRAM (BQA)

100 COWS		3 BULLS			
Fly Tags		2 Tags @	1.35 /Each		\$2.70
Pour-on De-wormer	1200 Lbs	0 ml./100 lbs	80.00 /Liter		\$0.00
Pour-on De-licer	1200 Lbs	3 ml./100 lbs	37.72 /Liter		\$0.03
Lepto 5 + Vibrio		1 Dose @	0.77 /Dose		\$0.77
7-way clostridial		1 Dose @	0.49 /Dose		\$0.49
IBR PI3 BVD BRSV		1 Dose @	1.72 /Dose		\$1.72
Estrus Synchronization / AI		0 AI Breeding	27.00 /Head		\$0.00
Pregnancy Check		0 Checks @	3.50 /Head		\$0.00
SUB-TOTAL COWS & BULLS					\$588.13
85 CALVES					
Fly Tags		2 Tags @	1.35 /Each		\$2.70
7-way clostridial		2 Dose @	0.49 /Dose		\$0.98
IBR PI3 BVD BRSV		2 Dose @	1.72 /Dose		\$3.44
Pasteurella with leukotoxoid		1 Dose @	1.81 /Dose		\$1.81
Selenium		1 Dose @	0.38 /Dose		\$0.38
Pour-on De-wormer	350 Lbs	5 ml./100 lbs	80.00 /Liter		\$1.40
Implant Steers		2 Implants @	0.84 / Implant		\$1.68
SUB-TOTAL CALVES					\$981.75
14 REPLACEMENT HEIFERS					
Bangs Vaccination (RB-51)		1 Dose @	3.50 /Dose		\$3.50
Fly Tags		2 Tags @	1.35 /Each		\$2.70
7-way clostridial		1 Dose @	0.49 /Dose		\$0.49
IBR PI3 BVD BRSV		1 Dose @	1.72 /Dose		\$1.72
Lepto 5 + Vibrio		2 Dose @	0.77 /Dose		\$1.54
Pour-on De-wormer	750 Lbs	5 ml./100 lbs	80.00 /Liter		\$3.00
SUB-TOTAL REPLACEMENT HEIFERS					\$132.30
13 FIRST CALF HEIFERS					
All other costs included with cows.					
Pour-on De-wormer	1050 Lbs	5 ml./100 lbs	80.00 /Liter		\$4.20
Estrus Synchronization / AI		1 AI Breeding	27.00 /Head		\$27.00
Pregnancy Check		1 Checks @	3.50 /Head		\$3.50
SUB-TOTAL FIRST CALF HEIFERS					\$451.10
Your Farm Veterinarian		1 Trip(s) @	\$250 Per Trip		\$250.00
( Includes Breeding Soundness Exam on Bulls )					
TOTAL HEALTH COST FOR HERD =					<b>\$2,403.28</b>

Trade and brand names are used only for the purpose of providing information. Virginia Cooperative Extension does not guarantee or warrant the standard of any product named to the exclusion of others which also may be suitable.