



Final SPA Report
1999 North and South Dakota Herds
ISU Veterinary Medicine Class VCS 436X



**Department of
Veterinary Diagnostics
and Production Animal Medicine
Iowa State University
Ames, Iowa**



**Summary of Vet Med Course SPA Herds
Total of 6 North and South Dakota Herds**

Form 18

Return and Cost Summary for Cow Herd

	Financial	Economic	Economic w/ Raised Hay @ Market Value
1. Return to Capital, Labor & Mgmt.	\$64,991	\$53,141	\$50,331
2. Return to Labor & Mgmt.	\$53,143	\$31,955	\$29,145
3. Net Profit	XXXXX	\$17,947	\$15,137
4. Return per \$100 of Feed Fed	\$378	\$263	\$253
5. Annual % Return on Capital Investment	27%	14%	13%
6. Return per Hour of Operator Labor	\$35.16	\$16.56	\$14.77
Costs for Cow-Calf Enterprises			
7. January 1 Number of Cows in Herd	371	371	371
8. a. Pasture Cost per Cow	\$82	\$109	\$109
b. Crop Residues per Cow	\$0	\$0	\$0
c. Harvested Forages per Cow	\$30	\$44	\$54
d. Non-Purchased Raised Feed Fed per Cow	\$8	\$8	\$8
e. Purchased Feed per Cow	\$17	\$17	\$17
f. Total Feed Cost per Cow	\$137	\$178	\$188
9. Operating Cost per Cow	\$76	\$76	\$76
10. Depreciation Cost per Cow	\$40	\$40	\$40
11. Capital Charge per Cow	\$24	\$58	\$58
12. Hired Labor Cost per Cow	\$9	\$9	\$9
13. Family & Operator Labor Charge per Cow	XXXXX	\$45	\$45
14. Total Cost per Cow in Herd, January 1	\$286	\$407	\$416
15. a. Return to Management per Cow	\$167	\$90	\$80
b. Margin per Cwt Beef Produced, Inventory Included	\$26.72	\$14.12	\$13.03
Costs/Cwt for Cow-Calf Enterprises			
16. Feed Cost per Cwt of Beef Produced	\$24.78	\$31.50	\$32.60
17. a. Operating Cost per Cwt of Beef Produced	\$11.27	\$11.27	\$11.27
b. Vet Med Cost per Cwt of Beef Produced	\$3.69	\$3.69	\$3.69
18. Depreciation Cost per Cwt of Beef Produced	\$6.80	\$6.80	\$6.80
19. Capital Cost per Cwt of Beef Produced	\$4.51	\$9.99	\$9.99
20. Family & Operator Labor Cost per Cwt of Beef Produced	XXXXX	\$7.17	\$7.17
21. Total Cost per Cwt of Beef Produced	\$51.05	\$70.43	\$71.52
Production & Sales for Cow-Calf Enterprises			
22. Total Number of Feeder Calves Sold		335	
23. Average Age at Weaning		205	
24. Average Weight of Feeder Calves Sold		598	
25. Pounds of Calf Weight Sold per Cow		534	
26. Price per Cwt of Feeder Calves Sold		\$88.43	
27. Total Number of Breeding Stock Sold		67	
28. Average Weight of Breeding Stock Sold		1,243	
29. Pounds of Breeding Stock Sold per Cow		226	
30. Price per Cwt of Breeding Stock Sold		\$43.77	
31. Total Pounds of Beef Produced per Cow		589	
32. Total Pounds of Beef Sold per Cow		760	
33. Total Value of Production Sold per Cow		\$570.22	

Iowa Beef Center and ISU EXTENSION

25-Sep-01

Report prepared by Drs. Daryl Strohhahn and Suelee Robbe, ISU
Beef Center and Veterinary Medicine.

Summary of Vet Med Course SPA Herds Total of 6 North and South Dakota Herds

Form 19

Forage Production Cost Summary

	Financial	Economic	
Forage Production Costs			
1. Number of Acres in Forage Production	659	659	
2. Land Charge per Acre	\$4.38	\$11.40	
3. Operating Cost per Acre	\$24.33	\$24.33	
4. Depreciation Cost per Acre	\$1.86	\$1.86	
5. Non-Real Estate Loan, Interest per Acre	\$0.85	XXXXXX	
6. Family & Operator Labor per Acre	xxxxx	\$12.28	
7. Total Cost per Acre of Land in Forage Production	\$31.42	\$49.87	
8. Yield per Acre of Forage Production, Tons	2.5	2.5	
9. Land Charge per Ton	\$2.05	\$5.01	
10. Operating Cost per Ton	\$11.01	\$11.01	
11. Depreciation Cost per Ton	\$0.60	\$0.60	
12. Non-Real Estate Loan, Interest per Ton	\$0.44	XXXXXX	
13. Family & Operator Labor per Ton	xxxxx	\$4.29	
14. Total Cost per Ton of Forage Produced	\$14.10	\$20.91	
Pasture Summary			
15. Number of Acres Pastured	4500	4500	
16. Land Charge per Acre	\$9.83	\$11.08	
17. Operating Cost per Acre	\$1.94	\$1.94	
18. Depreciation Cost per Acre	\$0.04	\$0.04	
19. Non-Real Estate Loan, Interest per Acre	\$0.25	XXXXXX	
20. Family & Operator Labor per Acre	xxxxx	\$0.77	
21. Total Cost per Acre of Land in Pasture Production	\$12.06	\$13.83	
22. Acres per Cow-Calf Pair	11.99	11.99	
23. Animal Unit Months from Pasture	5148	5148	
24. Pasture Cost per Cow-Calf Pair	\$82.37	\$108.74	
25. AUM per Acre	1.5	1.5	
26. Cost per AUM	\$7.30	\$9.80	
27. Cost per Day for 1000 lbs of Body Weight	\$0.24	\$0.33	
Aftermath Grazing Summary			
28. Acres per Producing Cow	1.40	1.40	
29. Cost per Acre	\$0.00	\$0.00	
30. Cost per Cow	\$0.00	\$0.00	
31. AUM per Acre	1.0	1.0	
32. Cost per AUM	\$0.00	\$0.00	
33. Cost per Day for 1000 lbs of Body Weight	\$0.00	\$0.00	
Feed Utilization Summary			
	Dry Matter	Financial	Economic
	(lbs)	Value	Value
34. Raised Hay Fed per Cow	3,889	\$29.55	\$44.18
35. Other Home-Raised Feed Fed per Cow	299	\$7.57	\$7.57
36. Purchased Hay Fed per Cow	0	\$0.00	\$0.00
37. Purchased Supplements Fed per Cow	57	\$10.89	\$10.89
38. Purchased Silages & Concentrates Fed per Cow	198	\$6.56	\$6.56
39. Total Feed Fed per Cow	4442	\$54.58	\$69.20
40. Feed Fed per Cwt. Marketed	583	xxxxxxx	xxxxxx

Iowa Beef Center and ISU EXTENSION

09/25/01

Report prepared by Drs. Daryl Strohbehn and Suelee Robbe, ISU
Beef Center and Veterinary Medicine.

Summary of Vet Med Course SPA Herds Total of 6 North and South Herds

Form 20

Reproduction & Production Measures and Investment Summary

Reproduction & Production Measures	
1. Pregnancy Percentage	92.8%
2. Pregnancy Loss Percentage	3.0%
3. Calving Percentage	90.8%
4. Calf Death Loss	3.7%
5. Calf Crop or Weaning Percentage	87.2%
6. Female Replacement Rate	15.0%
7. Calf Death Loss Based on No. of Calves Born	0.7%
Calving Distribution:	
8. Beginning Calving Date:	03/01/99
9. Calves Born During 1st 21 Days	59.5%
10. Calves Born During 1st 42 Days	87.3%
11. Calves Born During 1st 63 Days	96.0%
12. Calves Born After 1st 63 Days	4.0%
Production Performance Measures:	
13. Average Age at Weaning (Days)	205
Actual Weaning Weights	
14. Steers/Bulls	612
15. Heifers	573
16. Average Weaning Weight	593
17. Pounds Weaned per Exposed Female	506

	Cost	Market
Summary of Investment per Breeding Cow	<u>Basis</u>	Basis
18. Breeding Livestock	\$563	\$725
19. Machinery, Equipment & Structures	\$51	\$243
20. Current Assets	\$52	\$52
21. Total Breeding Stock & Equipment Investment/Cow	\$665	\$1,019

Summary of Investment per Forage Production Acre		
22. Structures & Equipment	\$7	\$92
23. Real Estate	\$57	\$105
24. Current Assets	\$31	\$41
25. Total R.E. & Equipment Investment/Forage Production Acre	\$95	\$238
26. Total R.E. & Equipment Investment in Forage Production/Cow	\$110	\$241

Summary of Investment per Pasture Acre		
27. Structures & Equipment	\$0	\$1
28. Real Estate	\$32	\$68
29. Current Assets	\$3	\$3
30. Total R.E. & Equipment Investment/Pasture Production Acre	\$35	\$72
31. Total R.E. & Equipment Investment in Pasture Production/Cow	\$359	\$643
32. Total Capital Investment/Cow	\$1,134	\$1,904

Iowa Beef Center and ISU EXTENSION

25-Sep-01

Report prepared by Drs. Daryl Strohbehn and Suelee Robbe, ISU
Beef Center and Veterinary Medicine.