

Florida Beef Cattle Ranch Record Book



This Record Book was developed by Doug Mayo, Jackson County Extension to enhance beef cattle ranch management, meet pesticide application record requirements, meet the recommendations for Country-of-Origin Labeling records, and to compliment the Florida Cattlemen's Association's Water Quality Best Management Practice Manual.



First Edition March 2004

This Record Book Belongs to: _____

Florida Beef Cattle Ranch Record Book Registration Form

Name	
Address	
City, State ZIP	
Phone	
Email (if applicable)	

This Record Book can be a valuable tool to help improve the management of your beef cattle operation. Registration is required so that updates can be sent to you. Since this is the first edition of this publication, University of Florida Extension will be contacting you in the future for your feed back on improving the usefulness, format and completeness of this record book.

Registration forms should be mailed to:

**Doug Mayo, Livestock Extension Agent
Jackson County Extension
2741 Pennsylvania Avenue, Suite 3
Marianna, FL 32448**

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COOPERATIVE EXTENSION WORK IN AGRICULTURE, HOME ECONOMICS, SEAGRANT AND 4-H YOUTH, STATE OF FLORIDA, IFAS, UNIVERSITY OF FLORIDA, AND BOARDS OF COUNTY COMMISSIONERS COOPERATING.

Please Return to: _____

City _____ **State** _____ **ZIP** _____

Phone: _____

Important Phone Numbers:

_____ **Phone #** _____

_____ **Phone #** _____

_____ **Phone #** _____

_____ **Phone #** _____

_____ **Phone #** _____

_____ **Phone #** _____

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_____ **Phone #** _____

For Record Book Page Refills:

Contact: Doug Mayo
Livestock Extension Agent
Jackson County Extension
2741 Pennsylvania Ave
Marianna, FL 32448

850-482-9620
Email: demayo@ifas.ufl.edu
Web page: <http://jackson.ifas.ufl.edu/livestock.htm>

About this Record Book



This record book was designed for field use (kept in truck), to record beef cattle and pasture records. The record sheets were designed for use in a loose-leaf binder, which can be customized to each individual operation. This record book does not take the place of business accounting and was not intended as a complete record list for tax preparation or loan application.

The standard record book comes with enough sheets to keep records on up to 12 fields and 100 cows. If additional fields are needed, simply print or copy all four pasture record sheets (pages 10-13) for each additional field. If an operation has more than 100 cows and heifers, additional copies of the individual cow production history sheet (page 58) should be added for each cow. The breeding and pregnancy testing sheets allow for 25 cows per sheet, so copies should be made for each additional 25 cows over the standard 100 head (pages 161 & 165).

The individual cow production and pasture record sheets were developed to keep for multiple years. All other sheets may need to be replaced for the next year. Any record sheets that do not apply for an operation can simply be removed. Additional record sheets can be developed based on the needs of each operation. If individual animal records are not maintained, then there is no need for printing off the cow production history sheets.

One final suggestion, record keeping is most valuable when used for decision making such as business analysis or cattle selection. In order to get the most value from the records kept in this book, profitability and herd performance measures should be developed for the year. However, with regulation and animal trace back, having a good set of records is becoming more and more important. So keep the records to be able to prove what you have done, but also use the records to analyze performance and profitability, to make your operation more efficient over the long haul.

Ranch Planning Calendar

January

February

March

Ranch Planning Calendar

April

May

June

Ranch Planning Calendar

July

August

September

Ranch Planning Calendar

October

November

December

Pasture Records

Rainfall Record

Year _____

Day	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Total												

Total for Year _____

Pasture/Field Record

Pasture I.D. _____ **Number of Acres** _____

Crop Record

[illegible]

Harvest Record

[illegible]

Pasture I.D. _____ Number of Acres _____

Soil Test Record

Test Results				Test Recommendations			
Date Sampled	pH	P-range or ppm	K-range or ppm	#N/acre	#P/acre	#K/acre	Lime/ac

Fertilizer Record

Date Applied	Fertilizer Type	Rate/Acre	# Acres Applied	Total Applied	Area Applied

Pasture Improvements or Repairs

Date	Type of Improvement	Description of Improvement

Pasture I.D. _____ **Number of Acres** _____

Pest Scouting & Control Record

Date Pest Scouted	Pest Observed: Insect, Weeds, Disease	Pest Levels: % damage, or light, medium, or heavy	Crop Affected	Product Used	Wind, Weather & Field Conditions	Treatment Method: Sprayer, nozzles, speed, pressure, gallons/acre etc.	Control: Poor, Fair, Good, Excellent

Pesticide Use Record

Licensed Applicator:

License Number:

Property Owner:[illegible]

Pasture I.D.	Number of Acres
---------------------	------------------------

Grazing Record

[illegible]

Pasture/Field Record

Pasture I.D. _____ **Number of Acres** _____

Crop Record

[illegible]

Harvest Record

[illegible]

Pasture I.D. _____ Number of Acres _____

Soil Test Record

Test Results				Test Recommendations			
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Pesticide Use Record

Licensed Applicator:

License Number:

Property Owner:[illegible]

Pasture I.D._____ **Number of Acres**_____

Grazing Record

[illegible]

Pasture/Field Record

Pasture I.D. _____ **Number of Acres** _____

Crop Record

[illegible]

Harvest Record

[illegible]

Pasture I.D. _____ Number of Acres _____

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Licensed Applicator:

License Number:

Property Owner:[illegible]

Pasture I.D._____ **Number of Acres**_____

Grazing Record

[illegible]

Pasture/Field Record

Pasture I.D. _____ **Number of Acres** _____

Crop Record

[illegible]

Harvest Record

[illegible]

Pasture I.D. _____ Number of Acres _____

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Licensed Applicator:

License Number:

Property Owner:[illegible]

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[illegible]

Pasture/Field Record

Pasture I.D. _____ **Number of Acres** _____

Crop Record

[illegible]

Harvest Record

[illegible]

Pasture I.D. _____ Number of Acres _____

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Grazing Record

[illegible]

Pasture/Field Record

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[illegible]

Harvest Record

[illegible]

Pasture I.D. _____ Number of Acres _____

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Licensed Applicator:

License Number:

Property Owner:[illegible]

Pasture I.D._____ **Number of Acres**_____

Grazing Record

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[illegible]

Harvest Record

[illegible]

Pasture I.D. _____ Number of Acres _____

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License Number:

Property Owner:[illegible]

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Grazing Record

[illegible]

Pasture/Field Record

Pasture I.D. _____ **Number of Acres** _____

Crop Record

[illegible]

Harvest Record

[illegible]

Pasture I.D. _____ Number of Acres _____

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Licensed Applicator:

License Number:

Property Owner:[illegible]

Pasture I.D._____ **Number of Acres**_____

Grazing Record

[illegible]

Pasture/Field Record

Pasture I.D. _____ **Number of Acres** _____

Crop Record

[illegible]

Harvest Record

[illegible]

Pasture I.D. _____ Number of Acres _____

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Pesticide Use Record

Licensed Applicator:

License Number:

Property Owner:[illegible]

Pasture I.D._____ **Number of Acres**_____

Grazing Record

[illegible]

Pasture/Field Record

Pasture I.D. _____ **Number of Acres** _____

Crop Record

[illegible]

Harvest Record

[illegible]

Pasture I.D. _____ Number of Acres _____

Soil Test Record

Test Results				Test Recommendations			
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Date	Type of Improvement	Description of Improvement

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Pesticide Use Record

Licensed Applicator:

License Number:

Property Owner:[illegible]

Pasture I.D._____ **Number of Acres**_____

Grazing Record

[illegible]

Pasture/Field Record

Pasture I.D. _____ **Number of Acres** _____

Crop Record

[illegible]

Harvest Record

[illegible]

Pasture I.D. _____ Number of Acres _____

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Pesticide Use Record

Licensed Applicator:

License Number:

Property Owner:[illegible]

Pasture I.D. _____ **Number of Acres** _____

Grazing Record

[illegible]

Pasture/Field Record

Pasture I.D. _____ **Number of Acres** _____

Crop Record

[illegible]

Harvest Record

[illegible]

Pasture I.D. _____ Number of Acres _____

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Pesticide Use Record

Licensed Applicator:

License Number:

Property Owner:[illegible]

Pasture I.D.	Number of Acres
---------------------	------------------------

Grazing Record

[illegible]

Individual Cow Records

Cow Production History Card

Cow ID _____

Description (Breed/color) _____

Cow's Sire _____ **Sire Breed**_____

Cow's Dam_____ **Dam Breed**_____

Cow's Birth Date_____ **Weaning Weight** _____

Purchase Date _____ **Purchase Price** _____

Date of Sale or Removal	
Reason	
Sale Weight	
Sale Price/lb.	
Total Value	

Cow ID# _____

Cow Production Record

[illegible]

Cow Production History Card

Cow ID _____

Description (Breed/color) _____

Cow's Sire _____ **Sire Breed** _____

Cow's Dam_____ **Dam Breed**_____

Cow's Birth Date_____ **Weaning Weight** _____

Purchase Date _____ **Purchase Price** _____

Date of Sale or Removal	
Reason	
Sale Weight	
Sale Price/lb.	
Total Value	

COW ID#

Cow Production Record

[illegible]

Cow Production History Card

Cow ID _____

Description (Breed/color) _____

Cow's Sire _____ **Sire Breed** _____

Cow's Dam_____ **Dam Breed**_____

Cow's Birth Date_____ **Weaning Weight** _____

Purchase Date _____ **Purchase Price** _____

Date of Sale or Removal	
Reason	
Sale Weight	
Sale Price/lb.	
Total Value	

COW ID#

Cow Production Record

[illegible]

Cow Production History Card

Cow ID _____

Description (Breed/color) _____

Cow's Sire _____ **Sire Breed**_____

Cow's Dam_____ **Dam Breed**_____

Cow's Birth Date_____ **Weaning Weight** _____

Purchase Date _____ **Purchase Price** _____

Date of Sale or Removal	
Reason	
Sale Weight	
Sale Price/lb.	
Total Value	

Cow ID# _____

Cow Production Record

[illegible]

Cow Production History Card

Cow ID _____

Description (Breed/color) _____

Cow's Sire _____ **Sire Breed** _____

Cow's Dam_____ **Dam Breed**_____

Cow's Birth Date_____ **Weaning Weight** _____

Purchase Date _____ **Purchase Price** _____

Date of Sale or Removal	
Reason	
Sale Weight	
Sale Price/lb.	
Total Value	

COW ID#

Cow Production Record

[illegible]

Cow Production History Card

Cow ID _____

Description (Breed/color) _____

Cow's Sire _____ **Sire Breed** _____

Cow's Dam_____ **Dam Breed**_____

Cow's Birth Date_____ **Weaning Weight** _____

Purchase Date _____ **Purchase Price** _____

Date of Sale or Removal	
Reason	
Sale Weight	
Sale Price/lb.	
Total Value	

COW ID#

Cow Production Record

[illegible]

Cow Production History Card

Cow ID _____

Description (Breed/color) _____

Cow's Sire _____ **Sire Breed** _____

Cow's Dam_____ **Dam Breed**_____

Cow's Birth Date_____ **Weaning Weight** _____

Purchase Date _____ **Purchase Price** _____

Date of Sale or Removal	
Reason	
Sale Weight	
Sale Price/lb.	
Total Value	

COW ID#

Cow Production Record

[illegible]

Cow Production History Card

Cow ID _____

Description (Breed/color) _____

Cow's Sire _____ **Sire Breed**_____

Cow's Dam_____ **Dam Breed**_____

Cow's Birth Date_____ **Weaning Weight** _____

Purchase Date _____ **Purchase Price** _____

Date of Sale or Removal	
Reason	
Sale Weight	
Sale Price/lb.	
Total Value	

Cow ID# _____

Cow Production Record

[illegible]

Cow Production History Card

Cow ID _____

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Cow's Sire _____ **Sire Breed** _____

Cow's Dam_____ **Dam Breed**_____

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Purchase Date _____ **Purchase Price** _____

Date of Sale or Removal	
Reason	
Sale Weight	
Sale Price/lb.	
Total Value	

COW ID#

Cow Production Record

[illegible]

Cow Production History Card

Cow ID _____

Description (Breed/color) _____

Cow's Sire _____ **Sire Breed**_____

Cow's Dam_____ **Dam Breed**_____

Cow's Birth Date _____ **Weaning Weight** _____

Purchase Date _____ **Purchase Price** _____

Date of Sale or Removal	
Reason	
Sale Weight	
Sale Price/lb.	
Total Value	

Cow ID#

Cow Production Record

[illegible]

Cow Production History Card

Cow ID _____

Description (Breed/color) _____

Cow's Sire _____ **Sire Breed** _____

Cow's Dam_____ **Dam Breed**_____

Cow's Birth Date_____ **Weaning Weight** _____

Purchase Date _____ **Purchase Price** _____

Date of Sale or Removal	
Reason	
Sale Weight	
Sale Price/lb.	
Total Value	

COW ID#

Cow Production Record

[illegible]

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Description (Breed/color) _____

Cow's Sire _____ **Sire Breed**_____

Cow's Dam_____ **Dam Breed**_____

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Purchase Date _____ **Purchase Price** _____

Date of Sale or Removal	
Reason	
Sale Weight	
Sale Price/lb.	
Total Value	

Cow ID#

Cow Production Record

[illegible]

Cow Production History Card

Cow ID _____

Description (Breed/color) _____

Cow's Sire _____ **Sire Breed**_____

Cow's Dam_____ **Dam Breed**_____

Cow's Birth Date _____ **Weaning Weight** _____

Purchase Date _____ **Purchase Price** _____

Date of Sale or Removal	
Reason	
Sale Weight	
Sale Price/lb.	
Total Value	

COW ID#

Cow Production Record

[illegible]

Cow Production History Card

Cow ID _____

Description (Breed/color) _____

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Cow's Dam_____ **Dam Breed**_____

Cow's Birth Date_____ **Weaning Weight** _____

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Date of Sale or Removal	
Reason	
Sale Weight	
Sale Price/lb.	
Total Value	

COW ID#

Cow Production Record

[illegible]

Cow Production History Card

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Cow's Dam_____ **Dam Breed**_____

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Purchase Date _____ **Purchase Price** _____

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Sale Weight	
Sale Price/lb.	
Total Value	

COW ID#

Cow Production Record

[illegible]

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Date of Sale or Removal	
Reason	
Sale Weight	
Sale Price/lb.	
Total Value	

COW ID#

Cow Production Record

[illegible]

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Cow's Sire _____ **Sire Breed** _____

Cow's Dam_____ **Dam Breed**_____

Cow's Birth Date_____ **Weaning Weight** _____

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Date of Sale or Removal	
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Sale Weight	
Sale Price/lb.	
Total Value	

COW ID#

Cow Production Record

[illegible]

Cow Production History Card

Cow ID _____

Description (Breed/color) _____

Cow's Sire _____ **Sire Breed** _____

Cow's Dam_____ **Dam Breed**_____

Cow's Birth Date_____ **Weaning Weight** _____

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Date of Sale or Removal	
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Sale Price/lb.	
Total Value	

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Cow Production Record

[illegible]

Cow Production History Card

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Date of Sale or Removal	
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Sale Price/lb.	
Total Value	

COW ID#

Cow Production Record

[illegible]

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Description (Breed/color) _____

Cow's Sire _____ **Sire Breed** _____

Cow's Dam_____ **Dam Breed**_____

Cow's Birth Date_____ **Weaning Weight** _____

Purchase Date _____ **Purchase Price** _____

Date of Sale or Removal	
Reason	
Sale Weight	
Sale Price/lb.	
Total Value	

COW ID#

Cow Production Record

[illegible]

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Description (Breed/color) _____

Cow's Sire _____ **Sire Breed**_____

Cow's Dam_____ **Dam Breed**_____

Cow's Birth Date_____ **Weaning Weight** _____

Purchase Date _____ **Purchase Price** _____

Date of Sale or Removal	
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Sale Weight	
Sale Price/lb.	
Total Value	

Cow ID#

Cow Production Record

[illegible]

Cow Production History Card

Cow ID _____

Description (Breed/color) _____

Cow's Sire _____ **Sire Breed** _____

Cow's Dam_____ **Dam Breed**_____

Cow's Birth Date_____ **Weaning Weight** _____

Purchase Date _____ **Purchase Price** _____

Date of Sale or Removal	
Reason	
Sale Weight	
Sale Price/lb.	
Total Value	

COW ID#

Cow Production Record

[illegible]

Cow Production History Card

Cow ID _____

Description (Breed/color) _____

Cow's Sire _____ **Sire Breed** _____

Cow's Dam_____ **Dam Breed**_____

Cow's Birth Date_____ **Weaning Weight** _____

Purchase Date _____ **Purchase Price** _____

Date of Sale or Removal	
Reason	
Sale Weight	
Sale Price/lb.	
Total Value	

COW ID#

Cow Production Record

[illegible]

Cow Production History Card

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[illegible]

Cow Production History Card

Cow ID _____

Description (Breed/color) _____

Cow's Sire _____ **Sire Breed** _____

Cow's Dam_____ **Dam Breed**_____

Cow's Birth Date_____ **Weaning Weight** _____

Purchase Date _____ **Purchase Price** _____

Date of Sale or Removal	
Reason	
Sale Weight	
Sale Price/lb.	
Total Value	

COW ID#

Cow Production Record

[illegible]

Cow Production History Card

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Date of Sale or Removal	
Reason	
Sale Weight	
Sale Price/lb.	
Total Value	

COW ID#

Cow Production Record

[illegible]

Breeding Records

Bull Breeding Soundness Exam Record

[illegible]



Beef Cattle Gestation Table

Based on 283 day pregnancy

Bred Jan	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Jan
Calve Oct	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	Nov
Bred Feb	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28				Feb
Calve Nov	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7				Dec
Bred Mar	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mar
Calve Dec	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	Jan
Bred Apr	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		Apr
Calve Jan	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6		Feb
Bred May	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	May
Calve Feb	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	1	2	3	4	5	6	7	8	9	Mar
Bred Jun	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		Jun
Calve Mar	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8		Apr
Bred Jul	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Jul
Calve Apr	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	May
Bred Aug	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Aug
Calve May	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	Jun
Bred Sep	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		Sep
Calve Jun	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9		Jul
Bred Oct	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Oct
Calve Jul	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	Aug
Bred Nov	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		Nov
Calve Aug	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8		Sep
Bred Dec	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Dec
Calve Sep	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	Oct

(In leap years add one day after February 29)

Developed by Doug Mayo, Jackson County Extension

Breeding or A.I. Record

[illegible]

Breeding or A.I. Record

[illegible]

Breeding or A.I. Record

[illegible]

Breeding or A.I. Record

[illegible]

Pregnancy Testing Record

[illegible]

Pregnancy Testing Record

[illegible]

Pregnancy Testing Record

[illegible]

Pregnancy Testing Record

[illegible]

Feeding Records

Supplementation Record

[illegible]

Supplementation Record

[illegible]

Health Records

Herd Vaccination/Treatment Record

[illegible]

Herd Vaccination/Treatment Record

[illegible]

Sick Cattle Treatment Record

[illegible]

Sick Cattle Treatment Record

[illegible]

Herd Records

Cow Herd Inventory

[illegible]

Herd or Group Performance

[illegible]

Retained Ownership Record

[illegible]

Income Records

Cattle Sales Record

[illegible]

Cattle Sales Record

[illegible]

Cattle Sales Record

[illegible]

Cattle Sales Record

[illegible]

Other Income/Sales

[illegible]

Other Income/Sales

[illegible]

Expense Records

Expenses/Purchases

[illegible]

Expenses/Purchases

[illegible]

Expenses/Purchases

[illegible]

Expenses/Purchases

[illegible]

Expenses/Purchases

[illegible]

Expenses/Purchases

[illegible]

Ranch Analysis

Cash Cost Analysis

Category	Total Purchased	Total Expense
Feed		
Fertilizer		
Cattle		
Pesticides		
Pharmaceuticals		
Fence Supplies		
Fuel		
Tractor maintenance/repairs		
Truck maintenance/repairs		

Total Expenses _____

Category	Number Sold	Total Income
Steer Calves		
Heifer Calves		
Cull Cows		
Cull Bulls		
Hay		
Services		

Total Income _____

Gross Profit/Loss _____

Total Cattle Performance Analysis

Year:	Beginning Date	Ending Date	# Head
Breeding			XXXXXXXXXX XXXXXXXXXX
		Cows Exposed	
Calving			XXXXXXXXXX XXXXXXXXXX
		Total Calves Born	
		Live Calves	
		Dead Calves	
Weaning			XXXXXXXXXX XXXXXXXXXX
		Total Calves Weaned	
		Steers Weaned	
		Heifers Weaned	
		Bulls Weaned	
		Average Wwt.	
		Avg. Steer Wwt.	
		Avg. Heifer Wwt.	
		Avg. Bull Wwt.	
Pregnancy Check			XXXXXXXXXX XXXXXXXXXX
		Bred Cows	
		Open Cows	
		Cows Culled	

Pregnancy Percentage = # Bred Cows _____ divided by # Cows Exposed
_____ = _____

Calving Percentage = # Calves Born _____ divided by # Cows
Exposed _____ = _____

Weaning Percentage = # Calves Weaned _____ divided by # Cows Exposed _____ = _____

Lbs. Weaned/Cow Exposed Avg. Weaning Wt. _____ multiplied by Weaning % _____ = _____

Useful Information

Useful Extension Publications available Online from the University of Florida and other Universities

Pastures

Planting Dates, Rates, and Methods of Agronomic Crops	http://edis.ifas.ufl.edu/AA127
UF/IFAS Standardized Fertilization Recommendations for Agronomic Crops	http://edis.ifas.ufl.edu/SS163
Weed Management in Pastures and Rangeland	http://edis.ifas.ufl.edu/WG006
Insect Management in Pasture	http://edis.ifas.ufl.edu/IG061
Bahiagrass	http://edis.ifas.ufl.edu/AA184
Bermudagrass Production in Florida	http://edis.ifas.ufl.edu/AA200
Annual Ryegrass	http://edis.ifas.ufl.edu/AG104
Hay Production in Florida	http://edis.ifas.ufl.edu/AA251
Forage Planting and Establishment Methods	http://edis.ifas.ufl.edu/AG107
Soil Testing	http://edis.ifas.ufl.edu/SS156

Beef Cattle

Keep Herd Health Simple and Make it Fit the Beef Cattle Operation	http://edis.ifas.ufl.edu/AN002
Different Health Scenarios to Prepare Calves for Shipping and for Receiving Yearling Cattle	http://edis.ifas.ufl.edu/VM081
External Parasites on Beef Cattle	http://edis.ifas.ufl.edu/IG130
Nutrient Requirements of Beef Cattle	http://www.aces.edu/departments/aawm/anr-60.pdf
Strategies for Cost Effective Supplementation of Beef Cattle	http://edis.ifas.ufl.edu/AN085
Using By-Product Feeds in Beef Supplementation Programs	http://edis.ifas.ufl.edu/AN101
Strategies for Successful Development of Beef Heifers	http://edis.ifas.ufl.edu/AN100
Effects of Body Condition on Productivity in Beef Cattle	http://edis.ifas.ufl.edu/AN004
Crossbreeding Programs for Beef Cattle in Florida	http://edis.ifas.ufl.edu/AN055
Selecting Beef Bulls	http://edis.ifas.ufl.edu/AN024

Business Management

The Essential Financial Tools for Running a Firm	http://edis.ifas.ufl.edu/FE024
Custom Rates for Farm Machinery	http://edis.ifas.ufl.edu/FE268
Beef Cattle and Forage Budgets	http://www.ag.auburn.edu/dept/aec/pubs/budgets/
Cow-calf Production Record Software	http://www.ansi.okstate.edu/exten/beef/WCR-3279/WCR-3279.pdf

Pesticide Information

Application Equipment and Techniques	http://edis.ifas.ufl.edu/WG012
Broadcast Boom Sprayer Nozzle Uniformity Check	http://edis.ifas.ufl.edu/PI015
Broadcast Boom Sprayer Calibration	http://edis.ifas.ufl.edu/PI016
Maintenance, Care and Cleaning of Application Equipment	http://edis.ifas.ufl.edu/AG006

Conversion Factors

Larry Halsey, Jefferson County Extension

WEIGHTS

28.4 grams	1 ounce (oz)
16 ounces	1 pound (lb)
1 pound	0.45 kilograms
2.2 pounds	1 kilogram
1 gallon-water	8.345 pounds

LINEAR MEASURES - LENGTHS

1 inch	2.54 centimeters	
12 inches	1 foot	30.48 centimeters
36 inches	3 feet	1 yard
1 yard	0.9144 meter	
1 meter	39.37 inches	
1 mile	5,280 feet	1.609 kilometers
1 kilometer	1,000 meters	0.6217 mile
1/4 mile	1,320 feet	

VOLUMES, CUBIC MEASURES

1 tablespoon	3 teaspoons	14.8 ml	0.5 fl oz
1 pint	2 cups	16 fl oz	32 Tablespoons
1 quart	32 ounces	2 pints	0.95 liters
1 liter	1.06 quarts	1,000 ml	33.8 fl oz
1 gallon	4 quarts	8 pints	128 ounces
1 gallon (liquid)	231 cu inches	16 cups	3.8 liters
1 cubic foot	1728 cu in	7.48 gallons (liquid)	
1 cubic yard	27 cu feet	0.77 cu meters	
1 acre-inch, water	27,154 gallons	3,630 cubic feet	
A box 8 1/4" x 7" x 4" holds 1 gallon			
A box 16" x 12" x 11 1/4" hold 1 bushel			
A cylinder 6" deep x 7" diameter (3 1/2" radius) holds 1 gallon			

SQUARE MEASURE

1 sq foot	144 square inches	
1 sq. yard	9 sq. feet	0.836 sq. meters
1 acre	43,560 sq. ft	0.42 hectares

RATES, EQUIVALENTS AND CONVERSIONS

1 ounce per square foot	2,775 pounds per acre	62.5 pounds per 1,000 sq ft
1 ounce per square yard	300 pounds per acre	7 pounds per 1,000 sq ft
1 ounce per 100 sq ft	27 pounds per acre	0.62 pounds per 1,000 sq ft
1 pound per 100 sq ft	436 pounds per acre	10 pounds per 1,000 sq ft
2.5 gallons per 1,000 sq ft	100 gallons per acre	
1 quart per 100 sq ft	100 gallons per acre	
1 acre-inch per hour	450 gallons per minute	
1 part per million (ppm)	0.013 fl oz per 100 gallons of water	
1 percent solution (by weight)	1.33 fl oz per gallon	
1 foot/second	1.47 miles per hour (fps = 22/15 mph)	

1 cup of dry fertilizer weighs approximately 1/2 pound
1 quart of dry fertilizer weighs approximately 1 3/4 pounds
1 quart of dolomitic limestone weighs just over 1 1/2 pounds
1 pound of ryegrass will overseed about 100 sq ft (10 #/1,000 sq ft)
1 pound of bahiagrass seed will cover about 750-1,000 sq ft (25-30 #/acre)

1 flat of 100 bedding plants will cover:
11 sq ft when spaced 4 inches apart
44 sq ft when spaced 8 inches apart
100 sq ft when spaced 12 inches (1 foot) apart
156 sq ft when spaced 15 inches apart

Dimension of a Square Field:	Acres	Diameter of a Circular Field or Pond
208.7' x 208.7'	1 acre	235.5' (radius = 117.7')
466.7' x 466.7'	5 acres	526.6' (radius = 263.3')
660.0' x 660.0'	10 acres	744.7' (radius = 372.4')
933.3' x 933.3'	20 acres	1,053.2' (radius = 526.6')

Temperature

$^{\circ}\text{F}$ (Fahrenheit) = $(^{\circ}\text{C} \times 1.8) + 32$
$^{\circ}\text{C}$ (Celsius) = $(^{\circ}\text{F} - 32) \times .56$

C	Equivalent Temperature	F
-40	(same)	-40
0	Water Freezes	32
16	(reciprocals)	61
20-25	Comfortable Room Temp	68-77
37	Human Body	99
100	Water Boils	212

DILUTION RATES

LIQUID MEASURE approximate conversion rates	
Amount per 100 gallons	Amount per gallon
1/4 pint	1/4 tsp
1 pint	1 tsp
1 quart	2 tsp
1 gallon	2.5 Tbsp (1 fl oz)
2 gallons	5 Tbsp (2.5 fl oz)
4 gallons	1/3 pint (5 fl oz)
10 gallons	3/4 pint (13 fl oz)

DRY WEIGHT MEASURE approximate conversion rates	
Amount per 100 gallons	Amount per gallon
1/2 pound	1/12 oz
1 pound	1/6 oz
2 pounds	1/3 oz
3 pounds	1/2 oz
5 pounds	3/4 oz

Number of Plants Required for an Area of:					
Spacing (inches)	10 sq ft	15 sq ft	25 sq ft	50 sq ft	100 sq ft
5" x 6"	48	72	120	240	480
5" x 8"	36	54	90	180	360
6" x 6"	40	60	100	200	400
6" x 8"	30	45	75	150	300
8" x 8"	22	33	56	112	225
10" x 10"	14	22	36	72	144
12" x 12"	10	15	25	50	100
15" x 15"	6	10	16	32	64

Row Width (inches)	Distance to Equal					Length for 1/100 Acre		
	1 Acre	1/100 A		1/1000 A		2 Rows	4 Rows	6 Rows
	ft	ft	in	ft	in	ft	ft	ft
18"	29,040'	290'	5"	29'	0"	145'	73'	48'
20"	26,136'	261'	5"	26'	11"	131'	65'	44'
24"	21,780'	217'	10"	21'	9"	109'	55'	36'
28"	18,669'	186'	8"	18'	7"	93'	47'	31'
30"	17,424'	174'	2"	17'	5"	87'	44'	29'
32"	16,355'	163'	4"	16'	4"	82'	41'	27'
36"	14,520'	145'	2"	14'	6"	73'	36'	24'
38"	13,756'	137'	7"	13'	10"	69'	34'	23'
40"	13,068'	130'	8"	13'	1"	65'	33'	22'
48"	10,890'	108'	11"	10'	11"	54'	27'	18'
60"	8,712'	87'	1"	8'	8"	44'	22'	15'
72"	7,260'	72'	7"	7'	4"	36'	18'	12'

Equivalent Travel Rate	Miles per hour					
	1 mph	2 mph	3 mph	4 mph	5 mph	6 mph
= Ft / Minute	88	176	264	352	440	528
= 1000 inch / min & sec	11 min 22 sec	5 min 41 sec	3 min 47 sec	2 min 50 sec	2 min 16 sec	1 min 54 sec

In-Row Spacing (inches)	Thousands of Plants per Acre at Row Widths of:								Plants per 100 feet
	8"	12"	18"	24"	28"	32"	36"	40"	
1	784	523	349	261	224	196	174	157	1200
2	392	261	174	131	112	98.0	87.1	78.4	600
4	196	131	87.1	65.3	56.0	49.0	43.6	39.2	300
6	131	87.1	58.1	43.6	37.3	32.7	29.0	26.1	200
8	98.0	65.3	43.6	32.7	28.0	24.5	21.8	19.6	150
10	78.4	52.3	34.8	26.1	22.4	19.6	17.4	15.7	120
12	65.3	43.6	29.0	21.8	18.7	16.3	14.5	13.1	100
18	43.6	29.0	19.4	14.5	12.4	10.9	9.7	8.7	67
24	32.7	21.8	14.5	10.9	9.3	8.2	7.3	6.5	50

Abbreviations (in alphabetical order)

A = acre

atm = atmospheres

bu = bushel

C = cups

°C = Degrees Celcius

cc = cubic centimeters

cm = centimeter

cm2 = square centimeters

°F = Degrees Fahrenheit

fl oz = fluid ounces

ft = foot

ft2 = square feet

g = gram

gal = gallon

ha = hectare

Hg = mercury

hr = hour

in = inch

in2 = square inches

in3 = cubic inches

°K = Degrees Kelvin

kg = kilogram

km = kilometer

Kpa = kilopascals

L = liter

lb = pound

m = meter

m2 = square meters

mi = mile

min = minute

ml = milliliter

mm = millimeter

mph = miles per hour

oz = ounce

psi = pounds per square inch

pt = pint

qt = quart

°R = Degrees Rankin

sec = second

sq = square

tbsp = tablespoon

tsp = teaspoon

yd = yard

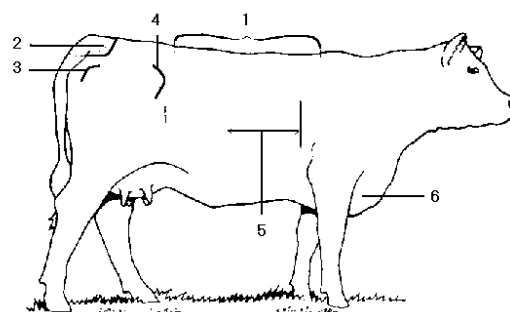
yd2 = square yards

Body Condition Scoring Reference Guide

William E. Kunkle, Robert S. Sand, Owen Rae, and Doug Mayo

Good reproductive performance requires a Body Condition Score (BCS) of 5 or higher at calving and through breeding. Proper stocking rates, a good mineral supplementation program, and timely use of protein supplements offer the most potential for economically improving body condition and pregnancy rates. Separating cows by condition at pregnancy testing or two to three months prior to calving and feeding both groups to calve in BCS 5 or above will maintain high reproductive performance while holding supplemental feed costs to a minimum. The routine use of BCS in each herd will provide needed information to manage the cow herd for a high calf crop and profitability.

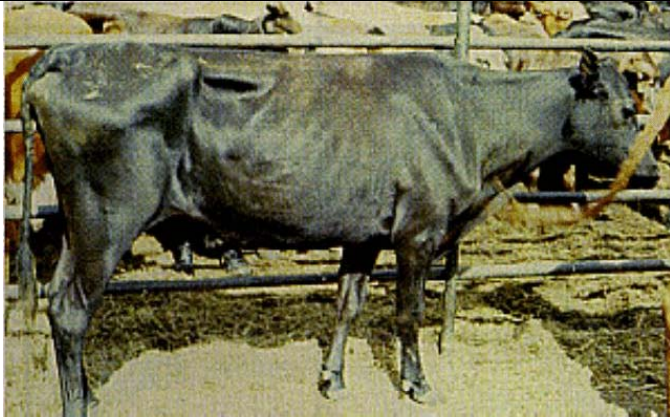
Key areas to observe fat cover for body condition scoring.



1. BACK 3. PINS 5. RIBS
 2. TAIL HEAD 4. HOOKS 6. BRISKET

Description of Body Condition Scores (BCS)
BCS 1—Emaciated - Bone structure of shoulder, ribs, back, hooks and pins sharp to touch and easily visible. Little evidence of fat deposits or muscling.
BCS 2—Very Thin - Little evidence of fat deposits but some muscling in hindquarters. The spinous processes feel sharp to the touch and are easily seen, with space between them.
BCS 3—Thin - Beginning of fat cover over the loin, back and foreribs. Backbone still highly visible. Processes of the spine can be identified individually by touch and may still be visible. Spaces between the processes are less pronounced.
BCS 4—Borderline - Foreribs not noticeable; 12th and 13th ribs still noticeable to the eye, particularly in cattle with a big spring of rib and ribs wide apart. The transverse spinous processes can be identified only by palpation (with slight pressure) to feel rounded rather than sharp. Full but straightness of muscling in the hindquarters.
BCS 5—Moderate - 12th and 13th ribs not visible to the eye unless animal has been shrunk. The transverse spinous processes can only be felt with firm pressure to feel rounded - not noticeable to the eye. Spaces between the processes not visible and only distinguishable with firm pressure. Areas on each side of the tail head are fairly well filled but not mounded.
BCS 6—Fleshy - Ribs fully covered, not noticeable to the eye. Hindquarters plump and full. Noticeable sponginess to covering of foreribs and on each side of the tail head. Firm pressure now required to feel transverse processes.
BCS 7—Smooth - Ends of the spinous processes can only be felt with very firm pressure. Spaces between processes can barely be distinguished at all. Abundant fat cover on either side of tail head with some patchiness evident.
BCS 8—Fat - Animal taking on a smooth, blocky appearance; bone structure disappearing from sight. Fat cover thick and spongy with patchiness likely.
BCS 9—Very Fat - Bone structure not seen or easily felt. Tail head buried in fat. Animal's mobility may actually be impaired by excess amount of fat.

Body Condition Score Examples



BCS 2



BCS 3



BCS 4



BCS 5



BCS 6



BCS 7

Body condition affects the amount and type of supplements needed during the winter. Fat cows can lose body reserves, and 1 to 2 pounds per head per day of a 30 to 40 percent protein supplement plus minerals and vitamins is sufficient to maintain adequate body condition in many situations. In contrast, thin cows have little body reserves and often need 4 to 6 pounds per head per day of a high-energy supplement with 12 to 16 percent protein plus minerals and vitamins to avoid significant flesh losses and reductions in pregnancy rates.

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