Successful Beef Production Begins With Good Records

Year:

# NDSU EXTENSION

# Calving Book



Owner:
Owner's phone:
CHAPS ID:
Herd ID:



CHAPS™ (Cow Herd Appraisal Performance Software) Online is a data-intensive beef production record system designed to provide you with vital information about your managerial decisions and herd's performance.

CHAPS™ was developed in 1985 by NDSU Extension and the North Dakota Beef Cattle Improvement Association with CHAPS™ Online being released in 2022.

CHAPS™ Online collects, stores and evaluates individual herd data, according to Beef Improvement Federation guidelines. Specialists compile herd data to generate five-year rolling benchmarks of key cow herd production parameters.

For more information about CHAPS™, visit **chaps.ndsu.edu** or email **ndsu.chaps.info@ndsu.edu**.



# Why Keep a Calving Book?

#### A calving book provides:

- An inventory of cows in the herd and calves produced for management and marketing decisions
- Cattle identification in conjunction with calving and weaning information, which is the basis for evaluating cow productivity and herd reproduction
- Details on health care, bull turnout dates and breeding records of the animals in a beef cow herd

#### Resource Contact List

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Gerald Stokka 701-231-5082 gerald.stokka@ndsu.edu

### 2023

JANUARY 2023	FEBRUARY 2023	<b>MARCH 2023</b>
SMTWTFS	SMTWTFS	SMTWTFS
1 2 3 4 5 6 7	1 2 3 4	1 2 3 4
8 9 10 11 12 13 14	5 6 7 8 9 10 11	5 6 7 8 9 10 11
15 16 17 18 19 20 21	12 13 14 15 16 17 18	12 13 14 15 16 17 18
22 23 24 25 26 27 28	19 20 21 22 23 24 25	19 20 21 22 23 24 25
29 30 31	26 27 28	26 27 28 29 30 31
APRIL 2023	MAY 2023	JUNE 2023
SMTWTFŞ	SMTWTFS	SMTWTFS
2 3 4 5 6 7 8	1 2 3 4 5 6	1 2 3
9 10 11 12 13 14 15	7 8 9 10 11 12 13	4 5 6 7 8 9 10
16 17 18 19 20 21 22	14 15 16 17 18 19 20	11 12 13 14 15 16 17
23 24 25 26 27 28 29	21 22 23 24 25 26 27	18 19 20 21 22 23 24
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JULY 2023	AUGUST 2023	SEPTEMBER 2023
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### 2024

JANUARY 2024	FEBRUARY 2024	MARCH 2024
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#### Calving Ease (CE) Codes

- 1 = No difficulty, no assistance
- 2 = Minor difficulty; some assistance
- 3 = Major difficulty; usually mechanical assistance
- 4 = Caesarean section
- 5 = Abnormal presentation

#### Sex Codes

- 0 = Miscellaneous (assigned for management codes A, B and C, and D if sex is unknown)
- 1 = Bull
- 2 = Heifer
- 3 = Steer

#### **International Year Letter Codes**

2010 X	2019 G	2028Q
2011 Y	2020 H	2029R
2012 Z	2021 J	2030S
2013 A	2022 K	2031T
2014 B	2023 L	2032U
2015C	2024 M	2033V
2016 D	2025 N	2034W
2017 E	20260	2035X
2018F	2027P	2036Y

#### Management Codes(MC)

0 = no creep feed

1-7 = months actual creep fed

A = cow that didn't calve but kept in herd

B = cow aborted

C = calf died before 2 weeks of age

D = calf died after 2 weeks but before weighing

E = embryo transplant

F = purchased calf

N = calf that was in herd but raised by another cow

K = twin, raised on foster cow with known birthdate

S = twin, raised on own dam as single

T = twin, raised on own dam as twin

X = calf present but not weighed

		8			
Calf ID	Cow ID	Sex	Sire	DOB	BW
1	l				1

CE	МС	Notes

Calf ID	Cow ID	Sex	Sire	DOB	BW

CE	MC	Notes

		8			
Calf ID	Cow ID	Sex	Sire	DOB	BW
1	l				1

CE	MC	Notes

Calf ID	Cow ID	Sex	Sire	DOB	BW

CE	МС	Notes

Calf ID	Cow ID	Sex	Sire	DOB	BW

CE	МС	Notes

		8			
Calf ID	Cow ID	Sex	Sire	DOB	BW

CE	МС	Notes

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Calf ID	Cow ID	Sex	Sire	DOB	BW

CE	МС	Notes

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Calf ID	Cow ID	Sex	Sire	DOB	BW

CE	МС	Notes

Calf ID	Cow ID	Sex	Sire	DOB	BW

CE	МС	Notes

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Calf ID	Cow ID	Sex	Sire	DOB	BW

CE	МС	Notes

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Calf ID	Cow ID	Sex	Sire	DOB	BW
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CE	МС	Notes

Calf ID	Cow ID	Sex	Sire	DOB	BW

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CE	MC	Notes

Calf ID	Cow ID	Sex	Sire	DOB	BW

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Calf ID	Cow ID	Sex	Sire	DOB	BW

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Calf ID	Cow ID	Sex	Sire	DOB	BW

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Calf ID	Cow ID	Sex	Sire	DOB	BW

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CE	МС	Notes

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CE	МС	Notes

Calf ID	Cow ID	Sex	Sire	DOB	BW

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CE	MC	Notes

	carring records						
Calf ID	Cow ID	Sex	Sire	DOB	BW		

CE	МС	Notes

Calf ID	Cow ID	Sex	Sire	DOB	BW

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CE	MC	Notes

	carring records						
Calf ID	Cow ID	Sex	Sire	DOB	BW		

CE	МС	Notes

# **Calving Summary**

•	•			
Item	Days 1-30	Days 31-60	Days 61-90	Days > 90
Cows calved				
Calves lost				
Birth difficulty				
Scours				
Illness				
Malnutrition				
Other				
# Heifer calves				
# Steer calves				
# Bull calves				
Comments				

#### **Health Records**

The success of a beef operation depends on the health of your beef animals. Healthy cattle grow better. They also adapt to environmental changes faster and more easily.

An active health management protocol is very important. A key component of any health protocol involves a relationship with the local veterinarian, which includes regular dialogue.

Disease control and prevention, animal traceback and good-quality beef products for consumers require collaboration along the entire beef industry chain.

Keep a record of vaccinations, antimicrobials and parasiticids administered to cattle. Keeping this type of information can increase the value of your animals.

# **Processing**

Processing information helps you provide a complete "picture" of how you manage your animals. Work with your veterinarian to develop a complete herd health program for your animals.

Most herds process different classes of cattle (calves, cows, bulls or replacement heifers) the same so recording individual ID is not needed. A suggested method could be "Repl Heifers, Red #124-237."

However, sometimes individual animals are not processed along with others because of some underlying condition such as too young, sick or injured. The ID's of these animals can be noted as NOT processed. A suggested method could be "Not Processed Repl Heifer #195, running fever."

#### **Processing**

DATE PROC – date of processing PROD – product name, serial number

IDs of animals NOT processed – When recording information, it is often easier to record which animals were NOT processed on that day and record them as a "Treatment" at a later date.

BY WHOM – person administering product

# **Processing**

W/D By Days Whom			
W/D Days			
Processed Group Animal ID's OR Not Processed Individual Animal ID			
Product, Dose and Serial #			
Date Proc.			

# **Processing**

	W/D By Days Whom			
	W/D Days			
)	Processed Group Animal ID's OR Not Processed Individual Animal ID			
	Product, Dose and Serial #			
	Date Proc.			

# **Processing**

By Whom			
W/D Days			
Processed Group Animal ID's OR Not Processed Individual Animal ID			
Product, Dose and Serial #			
Date Proc.			

Recording the treatment of animals should be on an individual basis. Not all animals will respond the same. Work with your veterinarian to develop a standardized treatment protocol for the different types of animals within your herd. A treatment program is part of a complete herd health program for your animals.

#### **Treatment**

DATE ADMIN – date treatment was administered

ID - animal's identification

DX – Following are recommendations for diagnosis and treatment:

R - respiratory

P - pinkeye

F - footrot

S - structural (ex: leg, hip)

U - reproductive (ex: metritis, retained placenta)

M - metabolic (ex: grass tetany, milk fever)

O - other

PROD – product name, serial number

WD DAYS – product withdrawal days

BY WHOM – person administering product

W/D By Days Whom			
W/D Days			
Prod., Dose and Serial #			
Dx (Codes on Page 78)			
9			
Date Admin.			

	 	 ,	 
By Whom			
W/D By Days Whom			
Prod., Dose and Serial #			
Dx (Codes on Page 78)			
Q			
Date Admin.			

By Whom			
W/D By Days Whom			
Prod., Dose and Serial #			
Dx (Codes on Page 78)			
Q			
Date Admin.			

W/D By Days Whom			
W/D Days			
Prod., Dose and Serial #			
Dx (Codes on Page 78)			
Q			
Date Admin.			

W/D By Days Whom			
W/D Days			
Prod., Dose and Serial #			
Dx (Codes on Page 78)			
9			
Date Admin.			

### CHAPS™ Cow Culling Codes

The collection of performance data in beef cattle has helped the industry move forward to evaluate many different traits. In addition to direct economic evaluations, producers can assess resource usage and benefits indirectly.

Another major benefit of performance data is the ability to evaluate traits that can be useful in improving the quality of beef products sold to consumers.

G = cow died

H = cow sold, age

J = cow sold, physical defect

K = cow sold, poor fertility or open

L = cow sold, inferior calves

R = cow sold, replacement stock

Y = cow sold, unknown

Date	Animal	(Based on codes on Page 82)

Date	Animal	(Based on codes on Page 82)

Date	Animal	(Based on codes on Page 82)

Date	Animal	(Based on codes on Page 82)

Date	Animal	(Based on codes on Page 82)

**Beef Improvement Federation (BIF)** 

#### Body Condition Scoring (BCS) for Beef Cattle

(Richards et al., 1986. J. Anim. Sci. 62:300.)

#### **Condition BCS Description**

#### THIN

- 1: **Emaciated** The cow is extremely emaciated, with no palpable fat detectable over the spinous processes, transverse processes, hip bones or ribs. The tail head and ribs project quite prominently.
- 2: **Poor** The cow still appears somewhat emaciated but the tail head and ribs are less prominent. Individual spinous processes still are rather sharp to the touch, but some tissue cover exists over the dorsal portion of the ribs.
- 3: **Thin** Ribs still are individually identifiable but not quite as sharp to the touch. Obvious palpable fat is along the spine and over the tail head, with some tissue cover over the dorsal portion of the ribs.
- 4: **Borderline** Individual ribs no longer are visually obvious. The spinous processes can be identified individually on palpation but feel rounded rather than sharp. Some fat cover is over the ribs, transverse processes and hip bones.

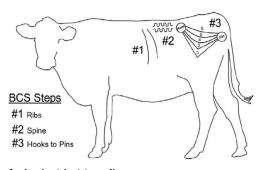
#### OPTIMUM/MODERATE

- 5: **Moderate** The cow has a generally good overall appearance. On palpation, the fat cover over the ribs feels spongy and areas on either side of the tail head have palpable fat cover.
- 6: **High moderate** Firm pressure needs to be applied to feel the spinous processes. A high degree of fat is palpable over the ribs and around the tail head

#### **FAT**

- 7: **Good** The cow appears fleshy and obviously carries considerable fat. Very spongy fat cover is over the ribs and around the tail head. In fact, "rounds" or "pones" are beginning to be obvious. Some fat is around the vulva and in the crotch.
- 8: **Fat** The cow very fleshy and overconditioned. Spinous processes are almost impossible to palpate. The cow has large fat deposits over the ribs, around the tail head and below the vulva. "Rounds" or "pones" are obvious.
- 9: Extremely fat The cow is obviously extremely wasty and patchy and looks blocky. The tail head and hips are buried in fatty tissue and "rounds" or "pones" of fat are protruding. Bone structure no longer is visible and barely palpable. The animal's mobility even might be impaired by large fatty deposits.

#### Body Condition Scoring (BCS)



1. Look at last two ribs

Visible: <5

Not visible: ≥ 5

2. Spine

Visible: ≤ 3

U.S. Beef

Body Condition Scores:

Range from 1-9

BCS 1: Starved

BCS 9: Obese

3. Shape between hooks and pins (thurl)

Shallow U: BCS 6 Strong U: BCS 5 V Shape: BCS 4 Strong V: BCS 3

Very Strong V: BCS 2

3-Step Body Condition Scoring (BCS) Guide for Range Cattle (B-1294), Scasta, et al, 2016, University of Wyoming Extension. http://www.wyoextension.org/publications/html/B1294/

#### A Look at BCS-Cows



Last two ribs visible: BCS <5 Spine visible: BCS ≤3 Shape between hooks and pins is strong V: BCS 3 BCS 3



Last two ribs visible: BCS <5 Spine not visible: BCS >3 Shape between hooks and pins is V: BCS 4

BCS 4



Last two ribs not visible: BCS  $\geq$ 5

Spine not visible: BCS > 3 Shape between hooks and pins is strong U: BCS 5

BCS 5



Last two ribs not visible:  $BCS \ge 5$ Spine not visible: BCS > 3Shape between hooks and pins is very shallow or flat U:  $BCS \ge 6$ 

BCS 6+

3-Step Body Condition Scoring (BCS) Guide for Range Cattle (B-1294), Scasta, et al, 2016, University of Wyoming Extension. http://www.wyoextension.org/publications/html/B1294/

#### **Gestation Table**

#### Estimated calving date (283 days)

Breed Date	Calf Date	Breed Date	Calf Date
Jan. 1	Oct. 11	July 4	April 13
Jan. 9	Oct. 19	July 12	April 21
Jan. 17	Oct. 27	July 20	
Jan. 25	Nov. 4	July 28	
Feb. 2	. Nov. 12	Aug. 5	
Feb. 10	. Nov. 20	Aug. 13	
Feb. 18	. Nov. 28	Aug. 21	-
Feb. 26	Dec. 6	Aug. 29	June 8
March 6	. Dec. 14	Sept. 6	June 16
March 14	. Dec. 22	Sept. 14	June 24
March 22	. Dec. 30	Sept. 22	
March 30	Jan. 7	Sept. 30	-
April 7	Jan. 15	Oct. 8	July 18
April 15	Jan. 23	Oct. 16	. July 26
April 23	Jan. 31	Oct. 24	
May 1	Feb. 8	Nov. 1	
May 9	Feb. 16	Nov. 9	Aug. 19
May 17		Nov. 17	_
May 25	.March 4	Nov. 25	-
June 2	March 12	Dec. 3	Sept. 12
June 10N	March 20	Dec. 11	
June 18N	March 28	Dec. 19	
June 26	April 5	Dec. 27	

\*Leap years: If the breed date is between May 22 (prior to leap year) and Feb. 28 (leap year), then subtract one day from calf date. Use www.timeanddate.com/date/dateadd.html to verify the calf date by adding 283 days to the breed date for specific years.

### Local Extension Assistance Available

North Dakota State University Extension has a network of beef professionals available for all counties in North Dakota.

If you have questions about beef production, your local Extension agent is available to assist you or put you in touch with people knowledgeable about issues such as electronic identification, range management, cropping systems and waste management.

Also contact your local Extension agent for additional calving books. A complete listing of Extension agents is at www.ndsu.edu/agriculture/ag-home/directory.





#### **CHAPS™**

A Management Tool
That Helps Beef Producers Connect
With All Segments of the Beef Industry!

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