

DICKINSON
RESEARCH EXTENSION CENTER

A Discussion
On When
To Calve!









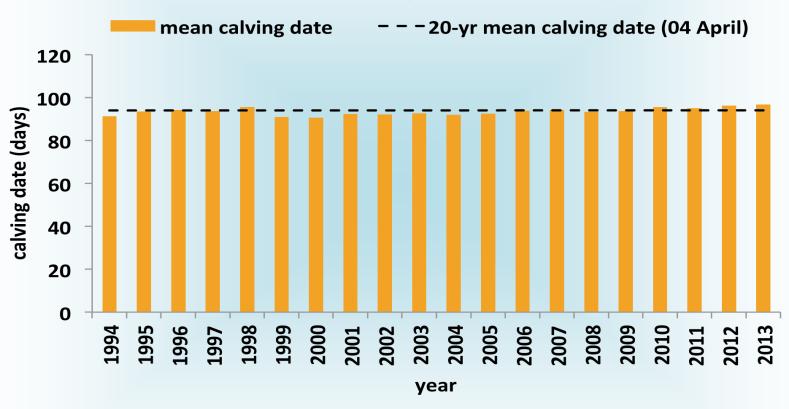




20-year Average Calving Date



CHAPS20Y: mean calving date over time (years)

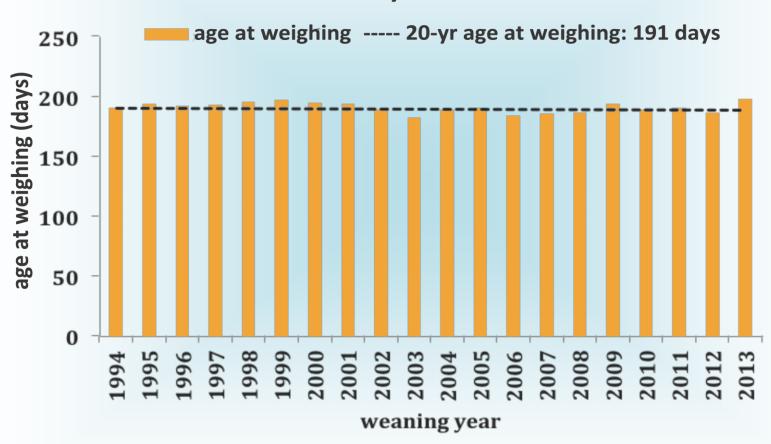




20-year Average Weigh Age



CHAPS20Y: mean age at weighing over time with 20-yr trends





20-year Average Weigh Date



CHAPS20Y: mean weigh date over time with 20-yr trends









Animal Performance

| www.chaps2000.com/benchmarks.htm as of March 29, 2015 | |
|---|-----|
| Average Age at Weaning | 191 |
| Steers WWT | 571 |
| Heifers WWT | 542 |
| Bulls WWT | 595 |
| Average WWt | 558 |
| Lbs Weaned/Cow Exposed | 495 |





Animal Performance

| www.chaps2000.com/benchmarks.htm as of March 29, 2015 | |
|---|------|
| Average Daily Gain | 2.49 |
| Weight Per Day of Age | 2.95 |
| Birth Weight | 84 |
| Adjusted 205 Day Weight | 623 |
| Frame Score | 5.6 |







Reproductive Efficiency

| www.chaps2000.com/benchmarks.htm as of March 29, 2015 | | |
|---|------|--|
| % Pregnancy | 93.1 | |
| % Pregnancy Loss | 0.65 | |
| % Calving | 92.5 | |
| % Calf Death Loss | 3.4 | |
| % Weaning | 89.8 | |
| % Replacement Rate | 15.7 | |



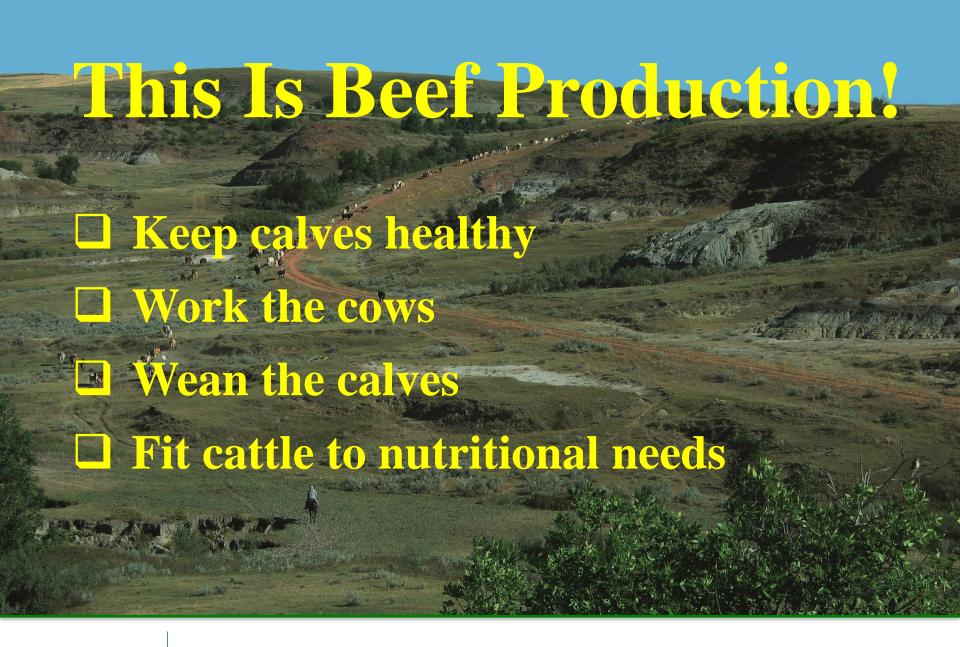




Reproductive Efficiency

| www.chaps2000.com/benchmarks.htm as of March 29, 2015 | |
|---|------|
| % Cows Calving at 42 Days | 86.4 |
| Cow Age | 5.5 |
| Cow Weight | 1418 |
| Cow Body Condition Score | 5.9 |

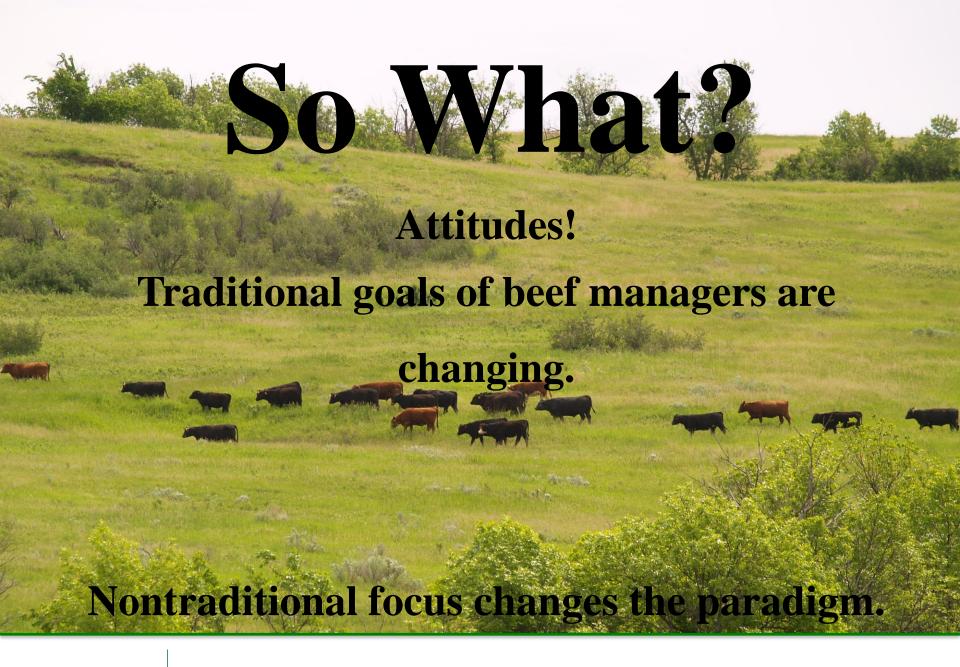














Why look at something different?

May-June calving presents opportunities

- Decreased labor need
- Reduced facilities

- Matching feed to 3rd trimester needs
- Potential to capture profit







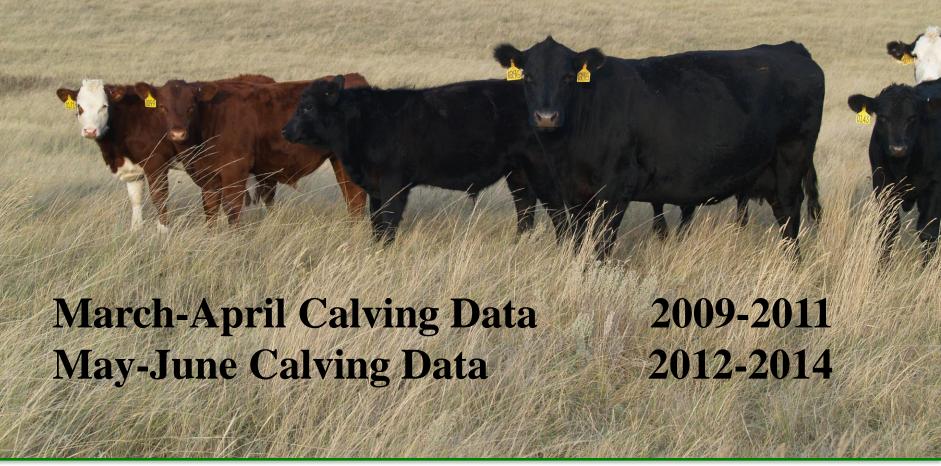








Dickinson Research Extension Center Ranch Headquarters, Manning, ND





Herd H38 Management



| | Mar-Apr |
|----------------------------|---------|
| Bull Turnout | 1-Jun |
| Official Start of Calving* | 15-Mar |
| Average Calving Date | 29-Mar |
| Start of Third Trimester | 12-Dec |

1-Aug 7-May 25-May 12-Feb

* = Average date when 3^{rd} cow in herd calves

Average Calving Date Statistics



CHAPS (20 year average)

April 4

Herd 38 (DREC, March-April Calving

March 29

Herd 38 (DREC, May-June Calving)

May 25



Cows Can Extend the Grazing Season



Grazing stockpiled mixed pastures of bromegrass and crested wheatgrass followed by corn stalk residue





Cows Can Extend the Grazing Season

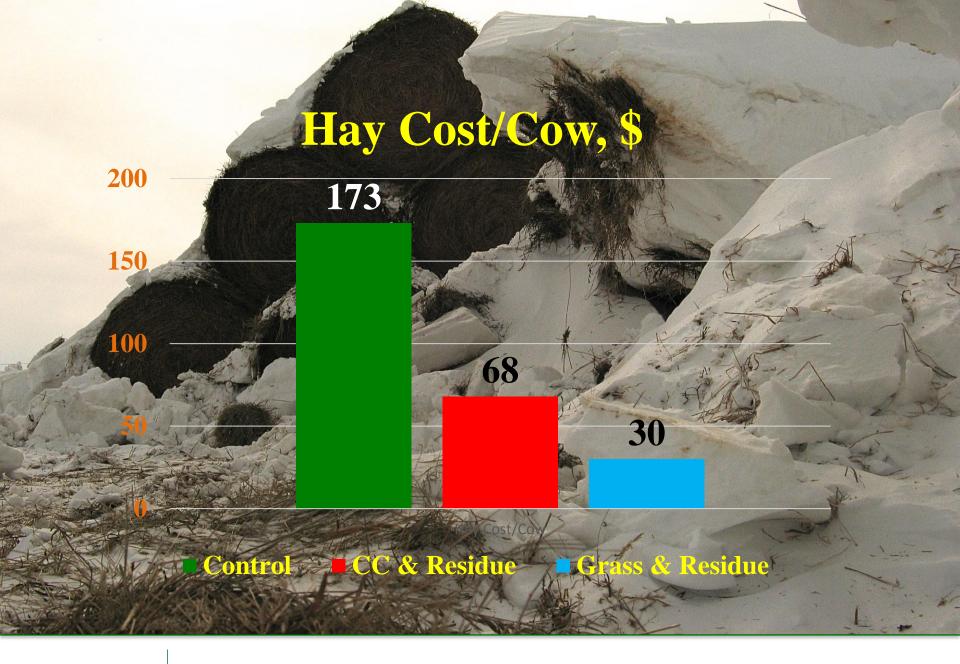


By Utilizing
Cover Crops
Crop Residue

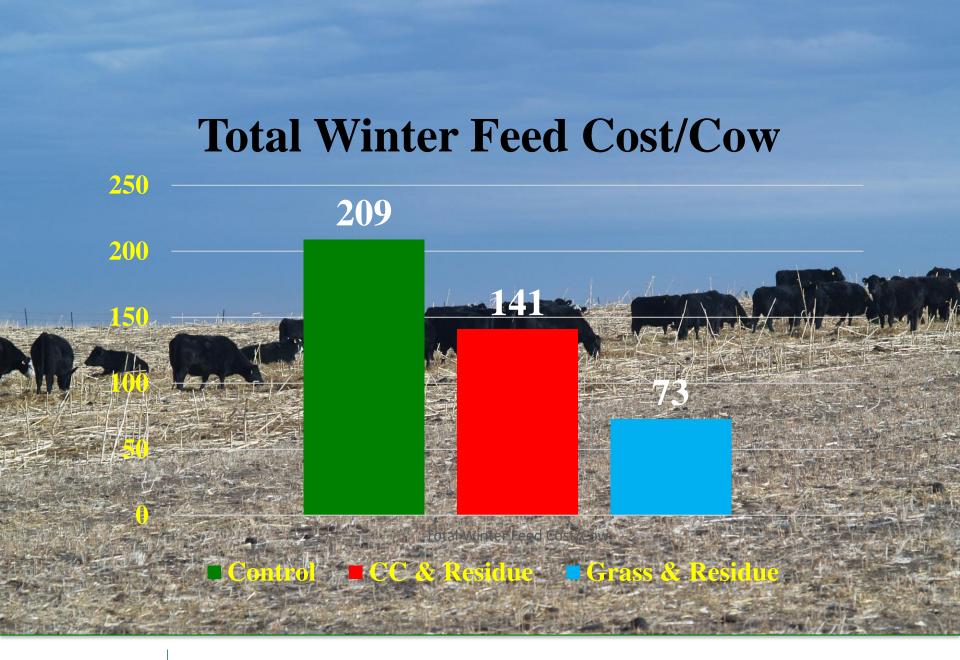






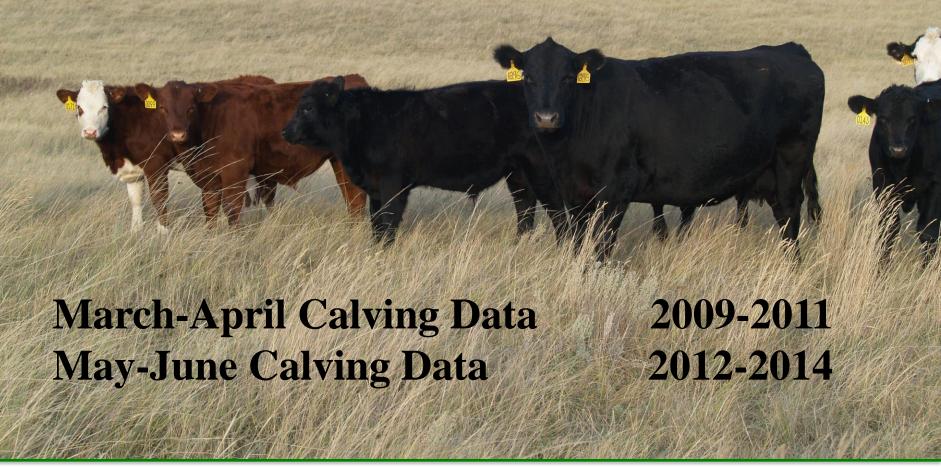








Dickinson Research Extension Center Ranch Headquarters, Manning, ND





Herd H38 Animal Performance



| Critical Success Factors | | |
|--------------------------|----------------------|-----------------------|
| | Mar-Apr 2009-2011 | May-June 2012-2014 |
| Average Age at Weaning | 205 | 168 |
| Steers | 609 | 537 |
| Heifers | 587 | 487 |
| Bulls | NA | NA |
| Average Weaning Weight | 598 | 514 |



Herd H38 Animal Performance



| Critical Success Factors | | |
|--------------------------|----------------------|-----------------------|
| | Mar-Apr 2009-2011 | May-June 2012-2014 |
| Average Daily Gain | 2.51 | 2.52 |
| Weight Per Day of Age | 2.94 | 3.06 |
| Birth Weight | 86 | 89 |
| Adjusted 205 Day Weight | 640 | 639 |
| Frame Score | 5.0 | 5.0 |



Herd H38 Reproductive Efficiency



| Critical Success Factors | | |
|---------------------------|----------------------|-----------------------|
| | Mar-Apr 2009-2011 | May-June 2012-2014 |
| % Cows Calving in 42 Days | 95.2 | 95.2 |
| Cow Age | 4.8 | 5.0 |
| Cow Weight | 1307 | 1437 |
| Cow Condition | 5.6 | 5.3 |

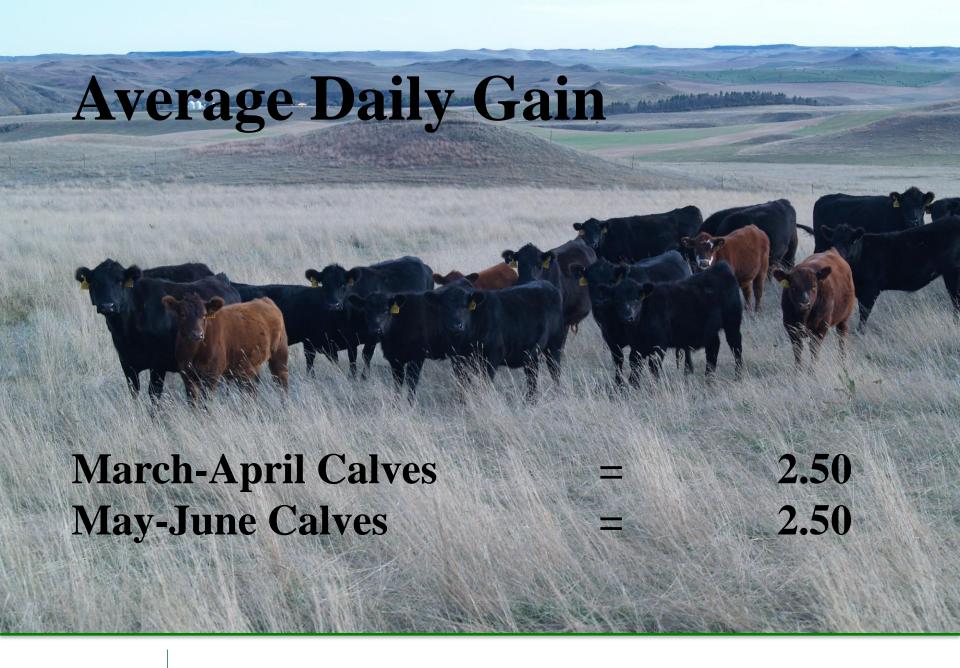


Herd H38 Reproductive Efficiency

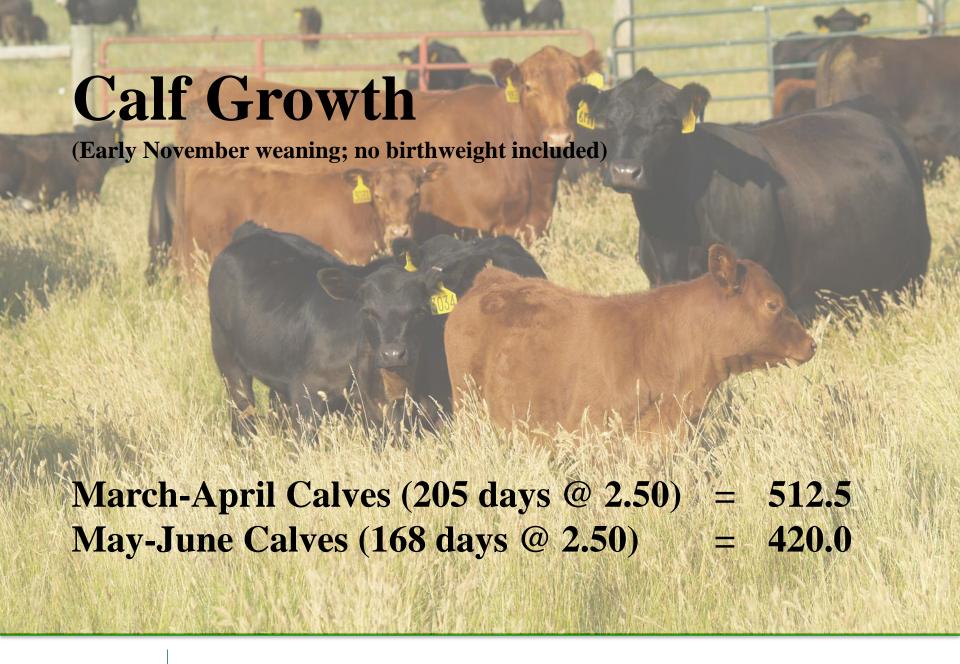


| Critical Success Factors | | |
|--------------------------|----------------------|-----------------------|
| | Mar-Apr 2009-2011 | May-June 2012-2014 |
| % Pregnancy Loss | 0.50 | 0.85 |
| % of Cow Calving | 98.46 | 97.38 |
| % Calf Death loss | 6.50 | 3.72 |
| % Cows Weaning Calves | 91.96 | 93.66 |











The BIG Question:





BEEF STREAM



CALVING



1,264 lb Steer



CORN CROP GRAZING



BREEDING



Genetics, Resources and Marketing Create Options For Beef Industry



SUMMER **GRAZING**



CROP AFTERMATH



NONTRADITIONAL WEANING



TRADITIONAL WEAN Two Options SELL BACKGROUND







2015 Calves Weaning Plan

Mid to late October

Work Calves, Cows

Precondition (calves)

Weigh (calves and cows)

Condition score (calves and cows)

Pregnancy check (cows)

Mid December

From 2 and 3 year old cows

Mid January

From mature cows



Wean Calves

Wean Calves



Management Goals

Winter calves for three-plus months

Weight gain goal of 1 to 1.5 lbs/day

Diet is primarily forage based

Turn yearlings onto Crested Wheatgrass May 1

Target is breed yearling heifers in August







This Is Beef Production!

YOU GET TO DECIDE TO DO SOMETHING DIFFERENT!

YOU CHANGE THE GAME PLAN!

A NEW PARADIGM EXISTS!



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Two Options SELL BACKGROUND

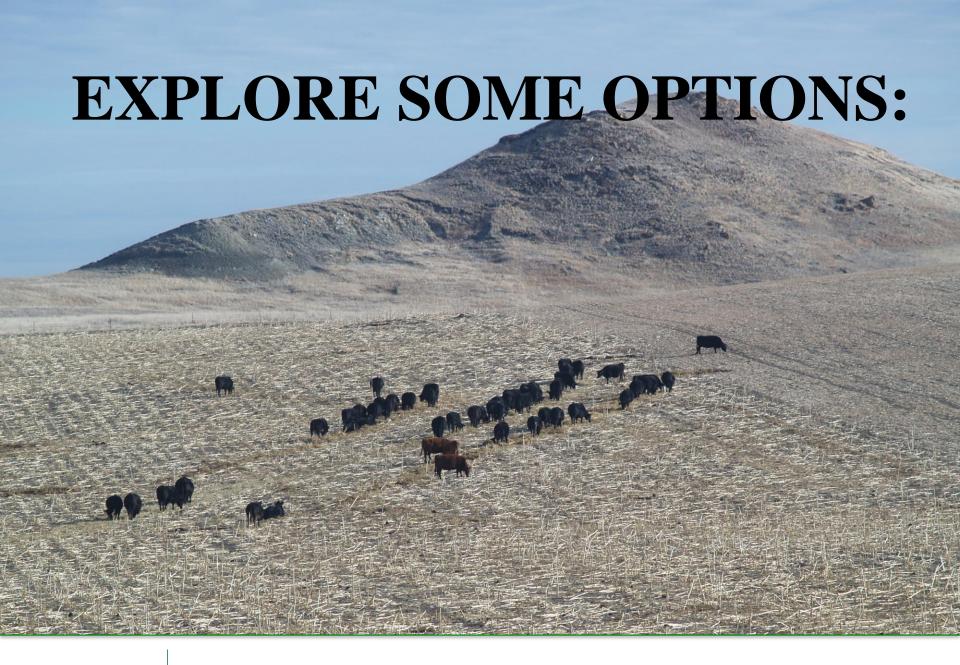


CROP AFTERMATH

This Is Beef Production!









What Are Our Options?

- **☐** Sell Younger Calves
 - ☐ Begin Backgrounding in January
- ☐ Keep Calves for Yearling Operation
 - •• Use May Crested Wheatgrass
 - •• Utilize Cover Crops
 - √ Supplement Weight Gain
 - **√ Build Soil Quality**
 - •• Capture Additional Revenue







What Are Our Options?

Wean calves in January

On crop residue.

Overwinter calves with 1-1.5 lb/day gain

Cows begin third trimester in February



What Are Our Options?

Keep Calves for Yearling Operation

- •• Use May Crested Wheatgrass
- Utilize Cover Crops

Earn Supplemental Weight Gain Build Soil Quality Capture Additional Revenue



BEEF STREAM



CALVING



1,264 lb Steer



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CROP AFTERMATH



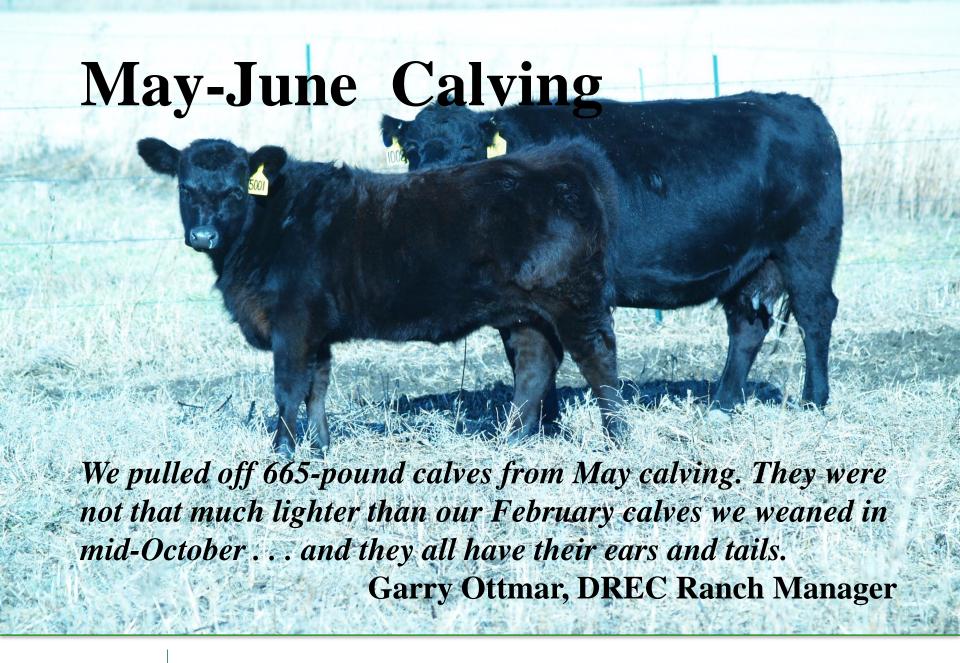
WEATHER IS ALWAYS A CONCERN!

Can be cold in March-April
Spring snowstorms in May-June
Cold, snowy weather in November











May-June Calving



Those early born calves can get their feet froze a little (and) once those calves go to the feedlot they do not do well... If the calf gets in trouble, the calf will be fine with (May-June) temperatures. In the winter, if you are not there right away, the calf is gone.

Garry Ottmar DREC Ranch Manager

May-June Calving



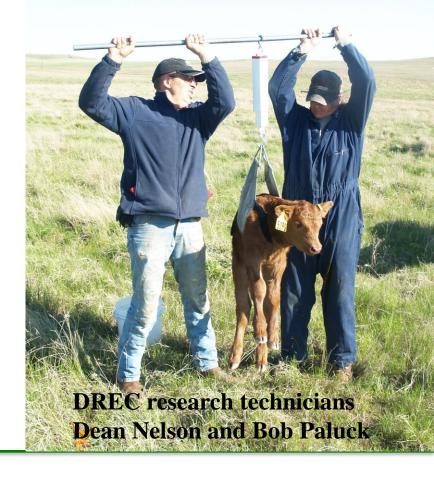
I would never go back to February and March calving. This is a good option (for) husband and wife teams that are so prevalent out there (on the farm or ranch). I don't know a better way to do it.

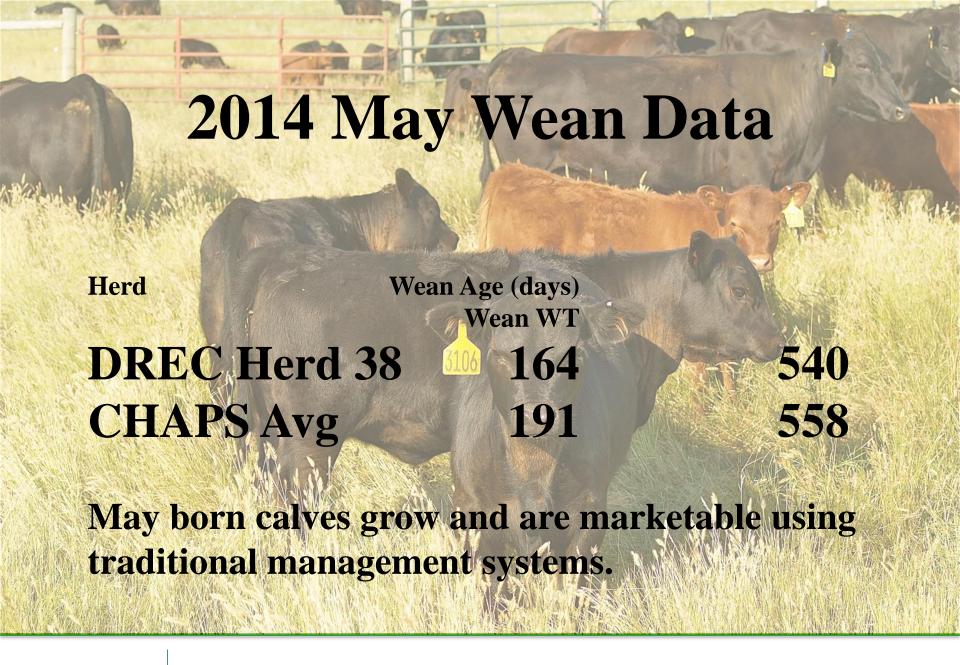
Garry Ottmar, DREC Ranch Manager, and wife Wanda.

May-June Calving

I love it (May-June calving).
The (warmer) weather seems to
quiet the cows down, the cows
are more healthy, there is less
disease . . . I would never want
to go back. It's just Dean and I

Bob Paluck DREC Research Technician







Graze to Slaughter Crop Rotation

Year 1 - Spring Wheat



Year 5 Sunflower





7-Way Cover Crop (Dry Gestating Cows)

Year 3 - Forage Corn





Grazing Sequence Perennial Pastures

Early MayCrested Wheatgrass(39 Days)

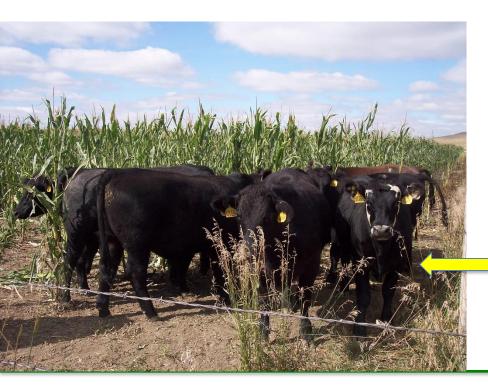


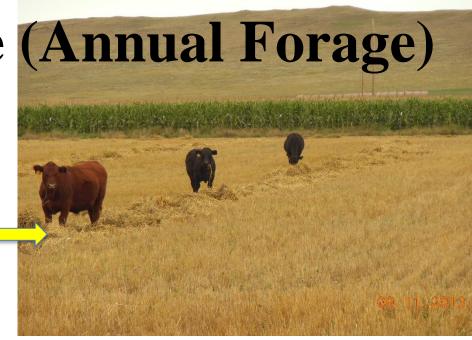


Mid-JuneNative Range(61 Days)

Grazing Sequence (Annual Forage)

•• Mid-August (27 Days)Pea-barleyProtein bridge





Mid-September
Unharvested corn
(55-77 Days)

Graze to Slaughter Forage Sequence











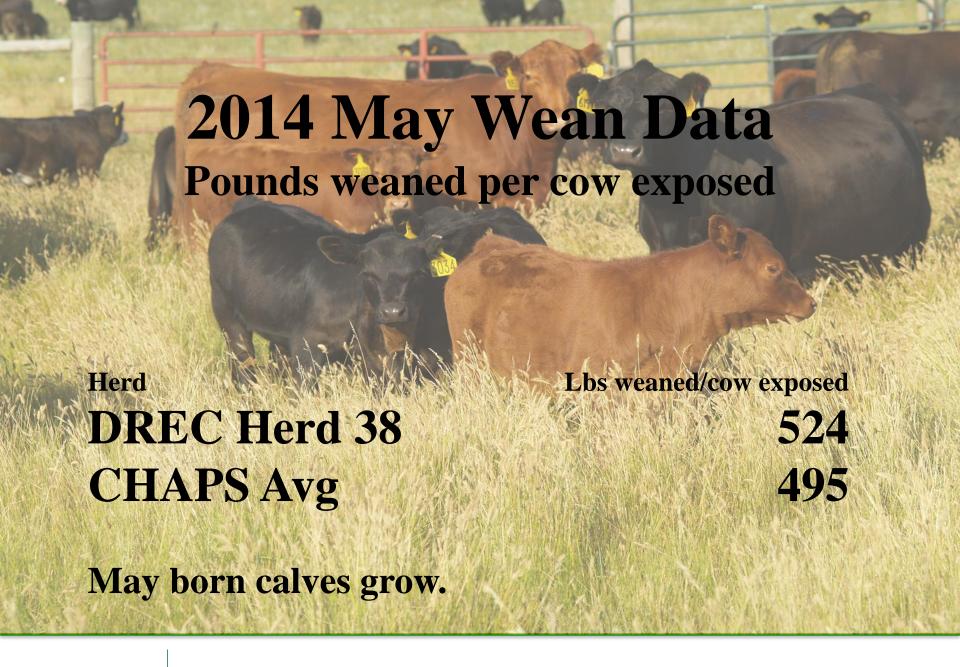






1,264 pound steer







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CALVING



1,264 lb Steer



CORN CROP GRAZING



BREEDING



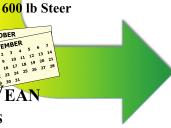
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NONTRADITIONAL WEANING



TRADITIONAL WEAN Two Options SELL BACKGROUND



CROP AFTERMATH





Marketing Options

Traditional steers:

sell in November at 609 pounds



Nontraditional steers:

sell long yearlings at 1,264 pounds



That's What It's All About!







THANK YOU FOR YOUR ATTENTION 701-483-1100

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www.ag.ndsu.edu/DickinsonREC

