When should I calve?

John Dhuyvetter

NCREC Minot

NDSU Extension 857-7682



Calving date

Calve when you have or others do

Calve based on economics and resources

Calve when you can and what will work



Calving Seasons

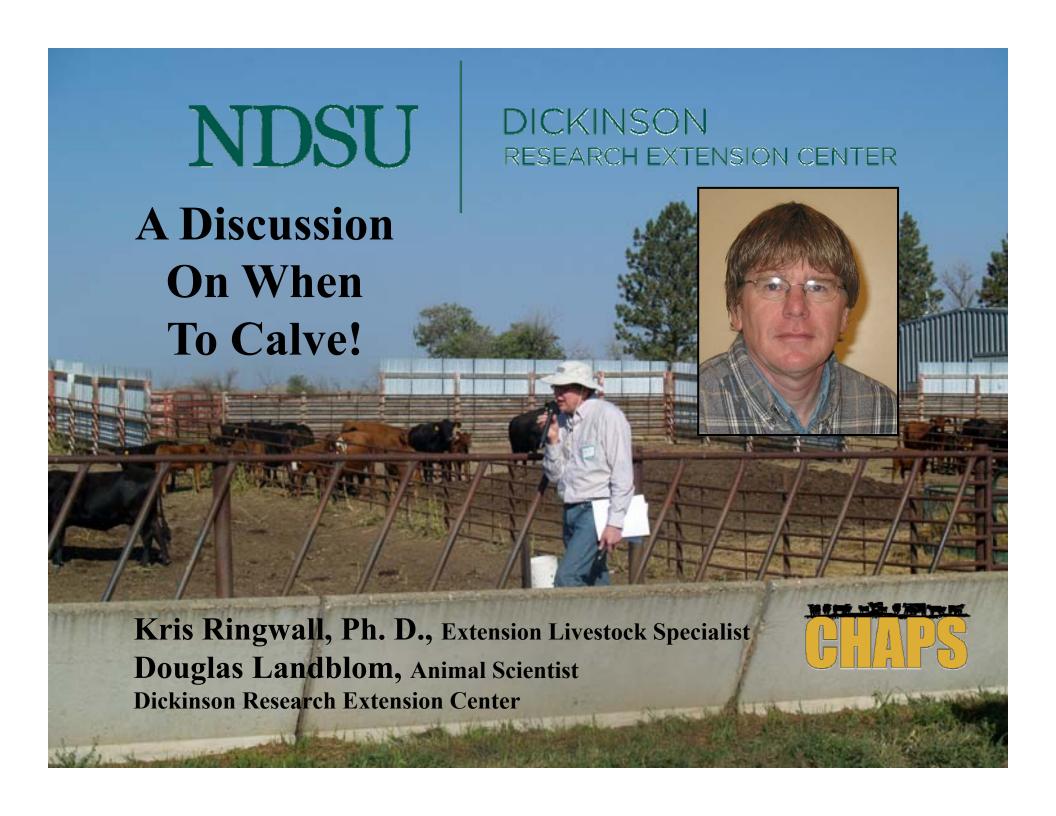
- Winter- Early Spring Calving (Jan-Mar)
 - Predominant amongst breeders
- Late Spring-Early Summer Calving (Apr-Jun)
 - Trend for large operations
- Fall Calving (Aug-Oct)
 - Niche under right resources



Big Decision – Affects Everything

- Weight and value of calves
- Calf health/survival
- Labor need and availability of labor
- Facilities and equipment
- Wintering feeds and rations
- Herd reproduction
- Profitability
- Easily move latter but not vice versa









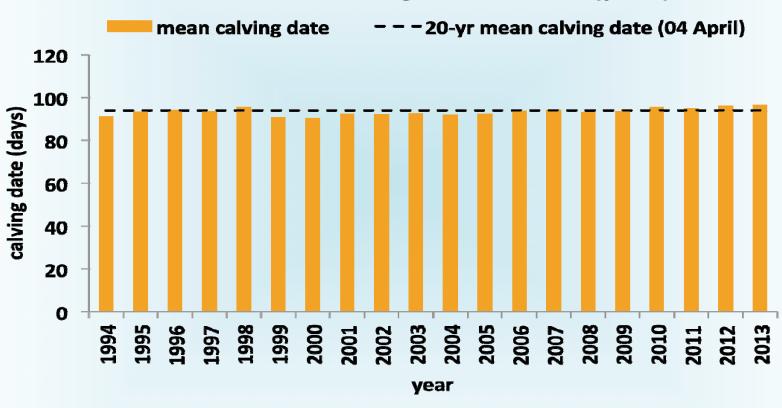




20-year Average Calving Date



CHAPS20Y: mean calving date over time (years)









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							
Weight Per Day of Age	2.95						
Birth Weight							
Adjusted 205 Day Weight							
Frame Score	5.6						

10





Reproductive Efficiency

www.chaps2000.com/benchmarks.htm as of March 2	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				

























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

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

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

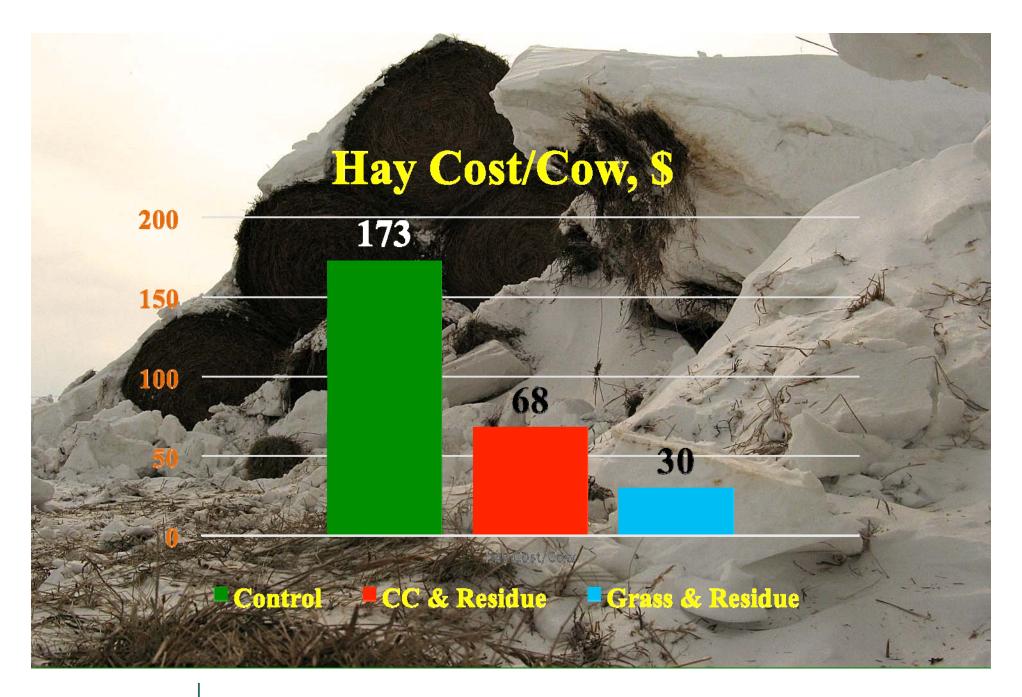


By Utilizing
Cover Crops
Crop Residue

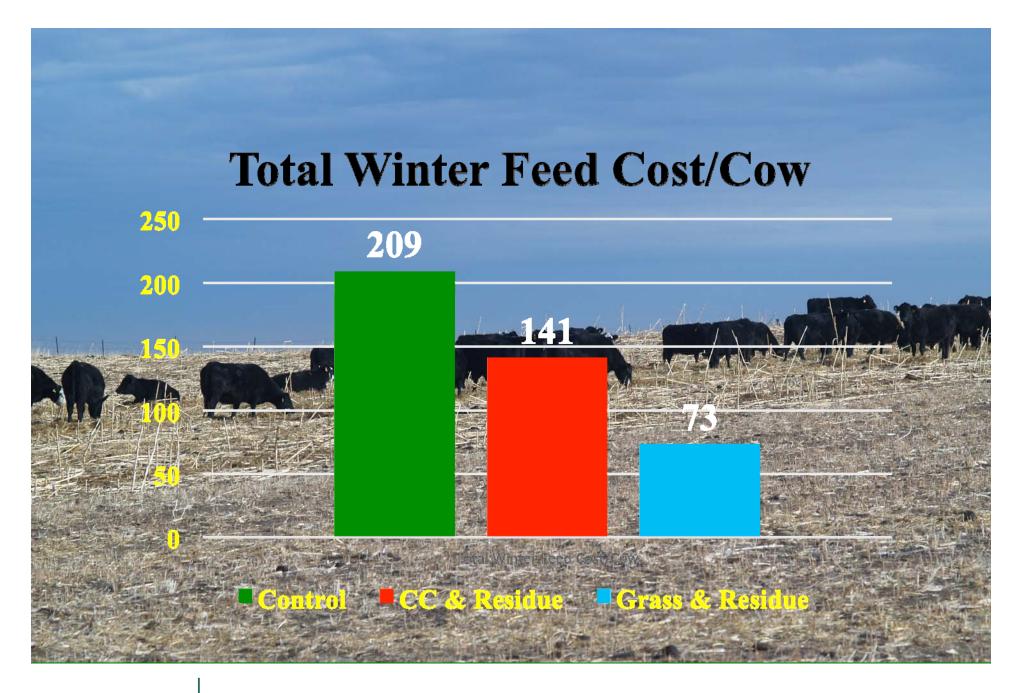




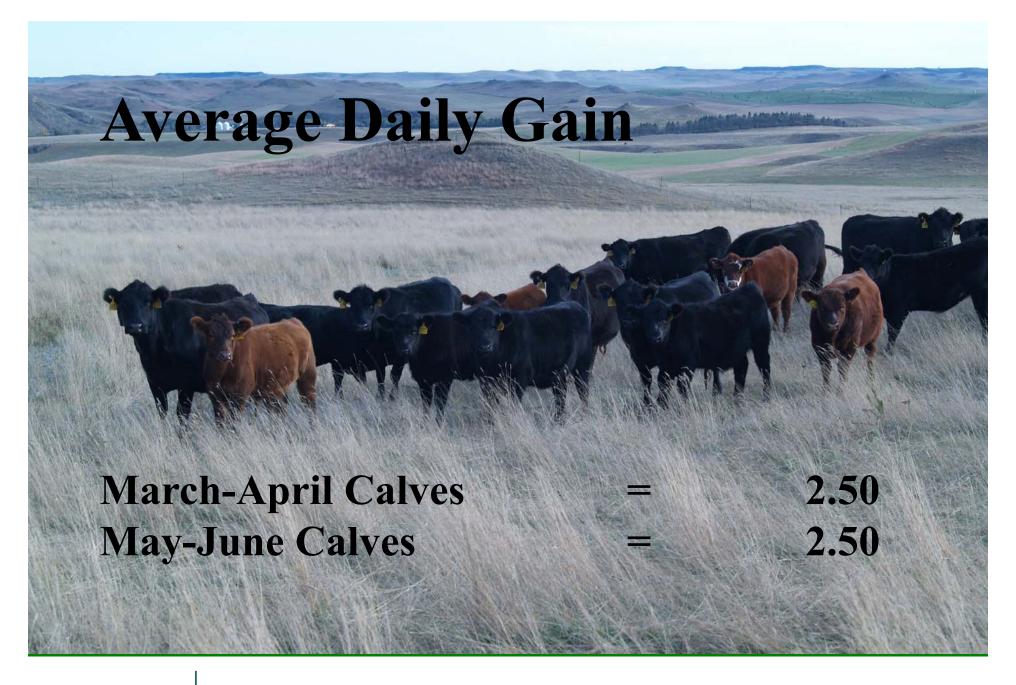


















The BIG Question:



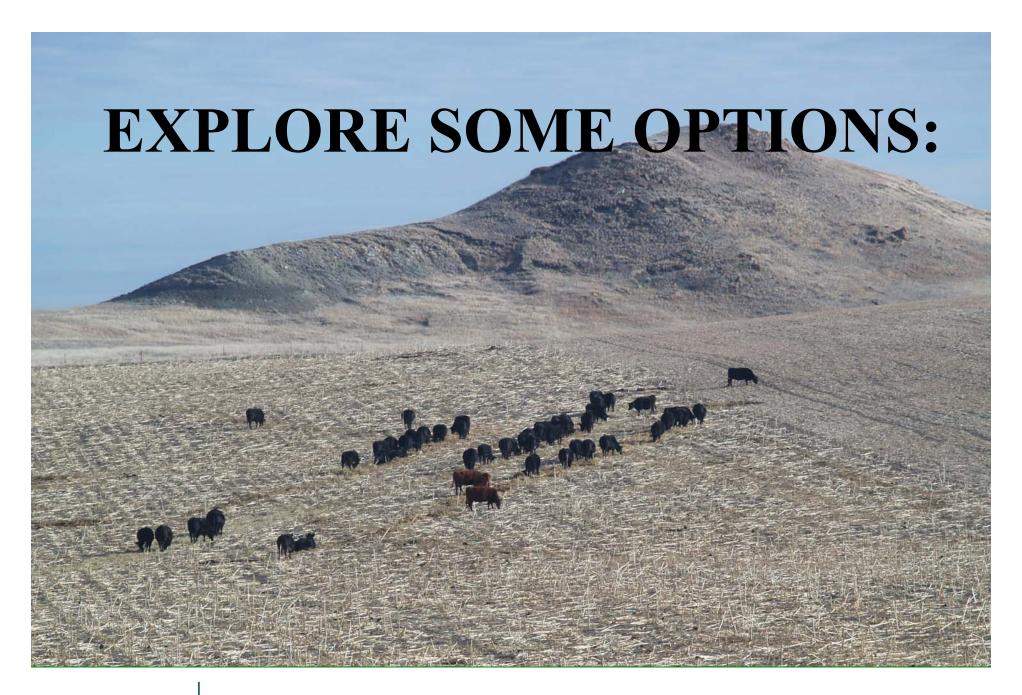














What Are Our Options? **Sell Younger Calves** Begin Backgrounding in January **Keep Calves for Yearling Operation** Crested Wheatgrass over Crops olement Weig **Fuild Soil Qualit** Capture Additional Revenue



2015 Calves Weaning Plan

Mid to late October 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

Work Calves, Cows

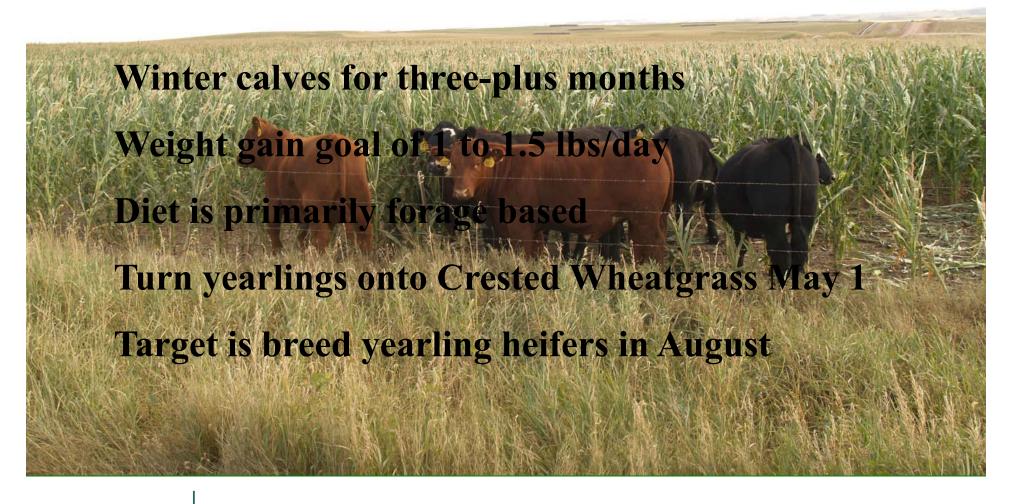


Wean Calves

Wean Calves



Management Goals





Grazing Sequence Perennial Pastures

•• Early May
Crested Wheatgrass
(39 Days)





Mid-JuneNative Range(61 Days)

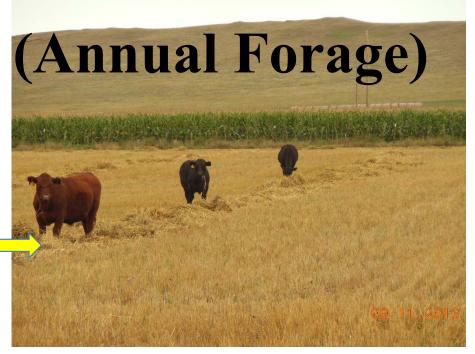
Grazing Sequence (Annual Forage)

•• Mid-August (27 Days)

Pea-barley

Protein bridge





Mid-September
Unharvested corn
(55-77 Days)

Graze to Slaughter Forage Sequence

















1,264 pound steer





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



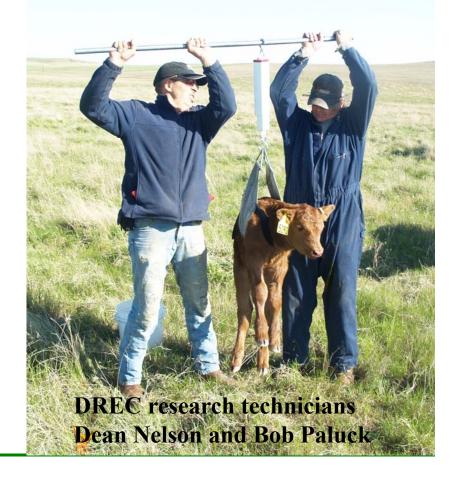
I would never go back to February and March calving. This is a good option (for) husband and wife teams that are so prevalent out there (on the farm or ranch). I don't know a better way to do it.

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



			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
June 1 Ca	lving																		
	month of	gest	5	6	7	8	9	Calve						Wean		500 wean	ing wt 12/6		180 days
	month fe		25	27	27	34	34	25	25	25	25	25	35	35			total includ		waste
	feed reso	urce	crp hay	crp hay	crp hay	grass hay	grass hay	pasture	pasture	pasture	pasture	pasture	pasture	grass hay				•	
March 1 c	alving																		
	month of	gest	8	9	Calve							wean	6	7		600 wean	weight 10/	15	225 days
	month fe	-	34	37	50	52	50	25	25	25	25	22	. 20	28			total includ		
	feed reso		grass hay	grass hay	hay/silage	hay/silage	hay/silage	pasture		pasture	pasture	pasture		crp hay					
					\\\:\	A/-:- -4	Duite		Cow feed			e cow feed							
income a	t weaning		weaning	%	Weaning	weignt	Price		Cow reed	cost	net above	e cow reed	cost						
	June Calv	ing	0.97	*	500	*	1.8	-	356.7	=	516.3								
	March Cal	lving	0.94	*	600	*	1.65	-	415.3	=	515.3								
Income a	fter Backgr	ounding	marketing	g %	Shipping	weight	Price		cow feed	cost	backgrou	nd days	feed-yard	l cost	net above	cow and	packground	ing feed c	ost
	June calvi	ing	0.96	*	675	*	1.63	-	356.7	-	120) *	1.1	=	567.5		hay plus D	DGS suppl	lement fo
	March cal	ving	0.93	*	850	*	1.45	-	415.3	-	105	*	1.5	=	573.4		hay -silage	- DDGs fo	or 2.5 adg
Assume e			and pregan		t, additiona	l cost estir	nates												
	cow owne	•	145																
	health/ve		20																
	fuel/utili		38																
	breeding		30																
	equipme	nt	21																
	facilities		12																-
	supplies		13																-
	repairs		48																-
	labor																		
	interest		6																
	Total		321																

