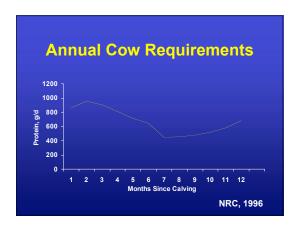


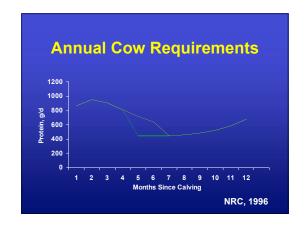


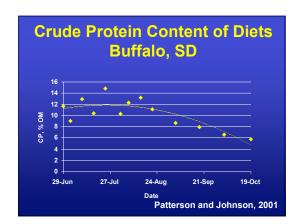


"If ample forage is available for grazing, milk production is likely the key factor in managing body condition during late summer and fall."

Don Adams, 2005



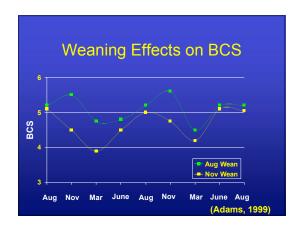






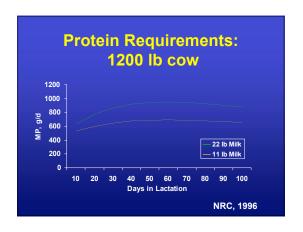








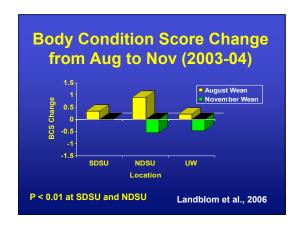


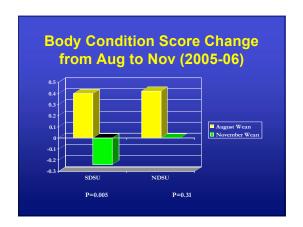


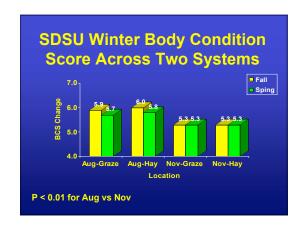
3-State Time of Weaning Project SDSU • Roger Gates • Steve Paisley • Trey Patterson • Pat Johnson • Ken Olson • Ken Olson • Scott Fausti • Marty Beutler • Bill Epperson • Robin Salverson

3-State Time of Weaning: Cow Production and Management March/April Calving Cows at 3 locations Two weaning dates (2003-2004): 140 days (mid-August) 215 days (early-November) Weights and BCS taken at each weaning date Calves backgrounded for 50-60 d and then finished









Back	grou	undin	g P	erfori	mar	ice
	NI	DSU	SI	DSU		UW
Item	Early	Normal	Early	Normal	Early	Normal
DOF	53	53	49	54	50	51
Start Wt., Iba	412	578	414	600	487	686
End Wt., Ib ^a	593	743	568	765	602	820
ADG, Ibb	3.44	3.15	3.15	3.05	2.27	2.67
F:G,c	4.85	6.72	5.09	6.75	5.93	6.90

Weaning Weights and Calf Gain				
Location	Aug	Nov	ADG	
SDSU	403	582	2.2	
NDSU	397	467	1.0	

Fall Calf Gains

- Gains affected by:
 - Forage quantity
 - Forage quality
 - Milk production of the cow
- Greater advantage to early weaning when calf gains are reduced

3-State Time of Weaning: Finishing Performance

- August-weaned calves finished
 - 32 days younger
 - 51 days longer on feed
- August-weaned calves more efficient from SDSU and NDSU (12%)

Landblom et al., 2006

Forage Utilization: Aug-Nov

 Aug
 Nov

 Forage Use, Ib/acre
 717
 990

 P = 0.15
 P = 0.15

Dry cows used 72% the amount of forage

Landblom et al., 2006

1000 acres; stocked with 175 cows:

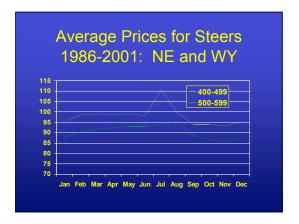
An additional 29 days of grazing (5 animal unit days/acre)

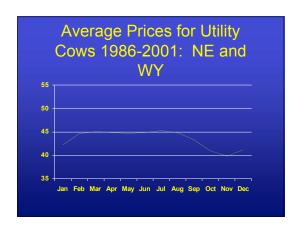


What about Economics?

Weaning Systems (Adams, 2005)

			(/ (,,
	Aug W	/ean	Nov V	Vean
	Sup	No	Sup	No
Grazing \$	54.26	52.91	75.16	73.37
Suppl. \$	15.77	0.0	15.77	0.0
Weaning				
Net Ret	293.01	337.17	312.91	332.50
Slaughter				
Net Ret	-9.35	3.01	21.76	10.91





Value of Forage Savings

- Use example given earlier: An additional 29 days of grazing in 1000 acre pasture
- If it cost \$1.00/ day to feed: Save \$29/head
- If AUM priced at \$20/animal unit month: Value would be at least \$19/head

Avg.Calf Income / Cow Exposed Calving season starts March 15 March 15 May 1 Weaning time late Oct. 1997-2000 \$429 \$384 \$399 Pruitt, 2001

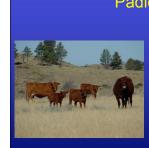
What is Value of Condition Score

- If cows are fleshy in the fall, likely little benefit to added condition of early weaning
- If cows are thin, added condition:
 - Allow you to not feed as heavily
 - Extend the grazing season
 - Improve subsequent pregnancy rates





Backgrounding Rations for Calv					
Ingredient	Ration				
	48D	48W	48W-2		
Grass/Alf Hay	37.3	33.0	29.7		
Corn Silage		10.0	20.0		
Wheat Midds	25.0	23.0	20.0		
Cr. Corn	26.7	24.5	27.8		
Molasses	8.5	7.0			
Suppl.	2.5	2.5	2.5		
Nutrient					
DM, % AF	84.8	79.0	73.8		
CP, % DM	14.5	14.3	14.0		
NEg, Mcal/cwt	48.0	48.0	48.0		



Padlock

- Since we retain ownership, we would like calves as heavy as possible
- We use weaning to manage body condition score and available feed







Weaning is a business decision

- Based on cow condition
- Cow age
- Forage availability
- Markets (calf, culls, and feed)

Key Points

- Weaning claves earlier than normal is a great tool to manage grass and body condition score
- There can be 0.5-1.0 difference in body condition score between Aug and Nov weaned calves
- Milk production and forage play an important role

Key Points

- Early-weaned calf performance is good in the feedlot
- If you have a marketable size animal to sell, returns at early weaning may not be less than November weaning
- If you retain ownership on calves, it depends on forage availability, cow condition, and feed costs

