

Introduction

In 2012, approximately 50% of ethanol plants are removing oil and producing a de-oiled product

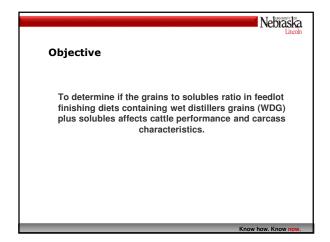
This thin stillage is centrifuged to remove "free" oil which can be marketed

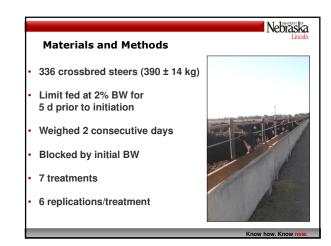
In general:
12-13% fat (normal)
1/3 in solubles, 2/3 in grains
Remove the 1/3 in solubles
De-oiled: 8-9% fat (new normal?)

Effects of the grains to solubles ratio in diets containing wet distillers grains fed to feedlot steers

C. M. Godsey, M. K. Luebbe, G. E. Erickson, T. J. Klopfenstein. University of Nebraska, Lincoin.

Abstract #82: 2008 Midwest ASAS 2009 Nebraska Beef Report





Materials and Methods

Delayed implant 30 d following initiation
Revalor S®

140 DOF

Slaughtered at commercial abattoir
Identification, HCW, liver score

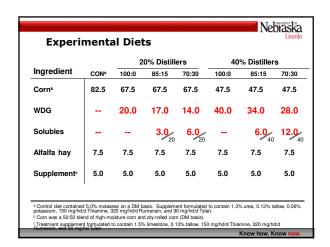
48 hr chill
Fat depth, LM area, marbling score
YG calculation

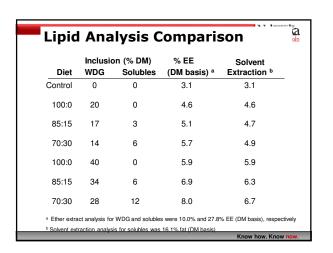
Diet Design

By-product feeds were supplied from separate ethanol plants

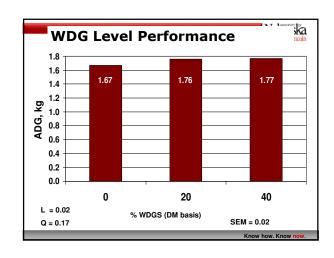
No solubles added back to WDG

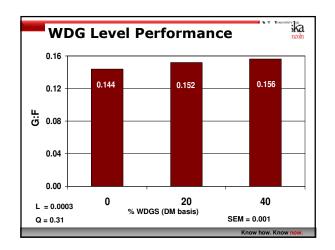
WDG and solubles combined with other ingredients in feed truck at time of feeding

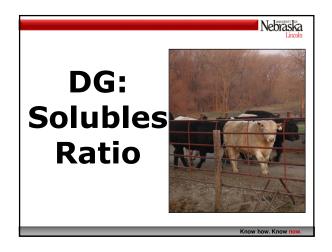


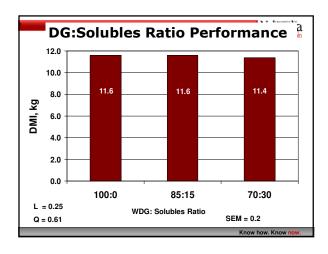


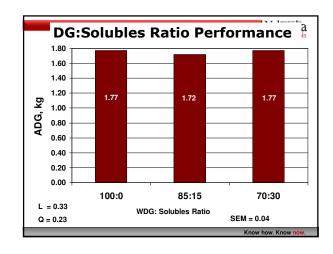
		20% Distillers			40% Distillers			Interaction
	CON	100:0	85:15	70:30	100:0	85:15	70:30	P-Value
DMI, kg/d	11.6	11.7	11.5	11.6	11.3	11.2	11.6	0.49
ADG, kg/d	1.67	1.78	1.74	1.75	1.75	1.75	1.82	0.61
G:F	0.14	4 0.152	0.151	0.154	0.154	0.156	0.158	0.90
HCW, kg	392	401	398	402	399	399	406	0.62
Marbling <sup>a</sup>	557	558	564	567	543	528	564	0.46
Fat depth, mm	13.49	14.67	13.83	14.50	15.77	14.97	16.28	0.86
LM area, cm <sup>2</sup>	90.6	90.2	91.8	89.8	88.1	89.6	88.9	0.85
YG <sup>b</sup>	3.12	3.33	3.15	3.36	3.51	3.36	3.58	0.98

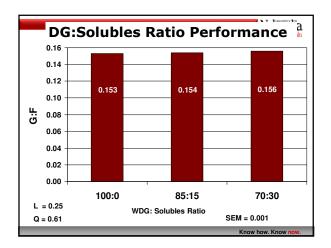


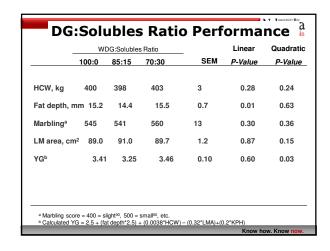


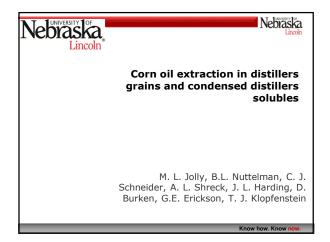




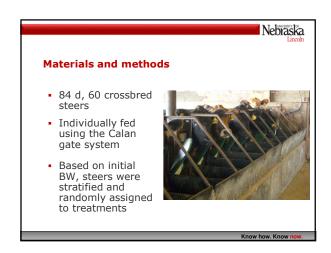


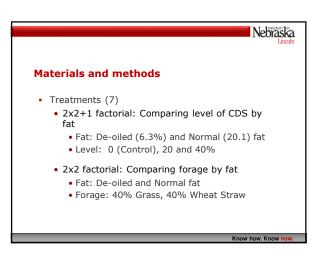


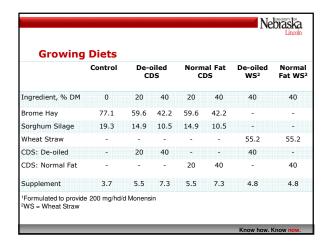


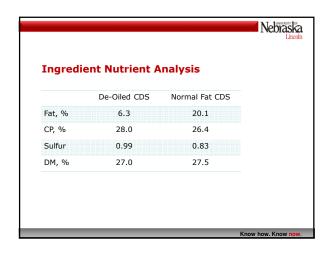


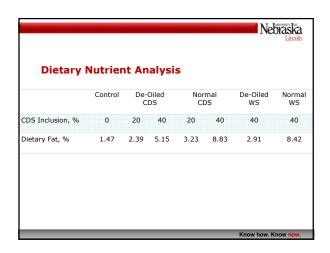


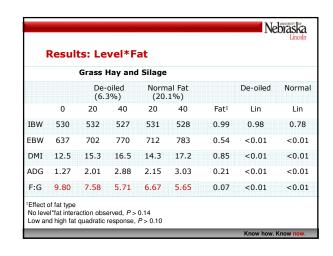


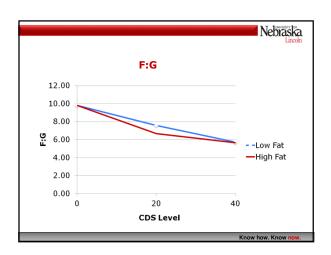


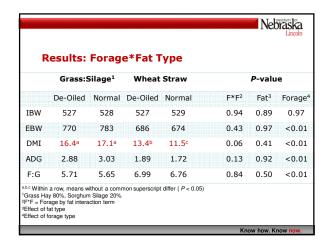


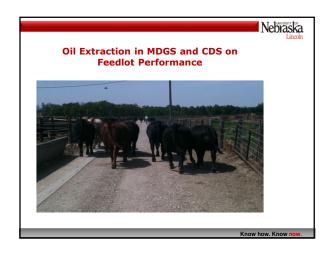


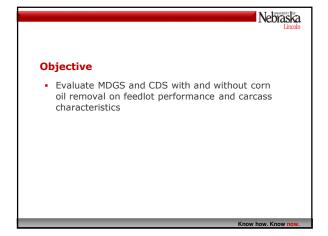












Nebraska Lincoln

## **Materials and Methods**

- 225 Calf fed steers
- 25 pens (9 head per pen)
  - Blocked by BW and assigned randomly to treatment
- Implanted with Rev-IS (d 1) and Rev-S (d 83)
- 179 DOF
- Samples were taken from by-products directly from truck and analyzed as well as weekly samples
- All modified distillers grains plus solubles prior to experiment; same plant, different week
- All CDS from same plant, about every 3 weeks

Know how. Know now.



- Treatments
  - 2x2+1 factorial arrangement
  - Level: De-oiled and Normal fat
    - De-oiled CDS = 6.0%
    - Normal fat CDS = 21.1%
    - De-oiled MDGS = 9.2%
    - Normal fat MDGS = 11.8%

Inclusions: 27% CDS or 40% MDGS

Know how. Know now

■ Nebraska

Finishing Diets						
	Control	27%	CDS	40% MDGS		
		De-Oiled	Normal	De-Oiled	Normal	
HMC	43.75	30.25	30.25	23.75	23.75	
DRC	43.75	30.25	30.2	23.75	23.75	
MDGS: De-oiled	-	-	-	40	-	
MDGS: Normal	-	-	-	-	40	
CDS: De-oiled	-	27	-	-	-	
CDS: Normal	-	-	27	-	-	
Sorghum Silage	7.5	7.5	7.5	7.5	7.5	
Supplement	5	5	5	5	5	

	27%	CDS	40% MDGS		
	De-Oiled	Normal	De-Oiled	Normal	
Fat, %	6.0	21.1	9.2	11.8	
CP, %	29.6	27.0	33.7	33.0	
Sulfur	1.26	0.78	0.65	0.56	
DM, %	27.0	27.5	46.0	46.5	

