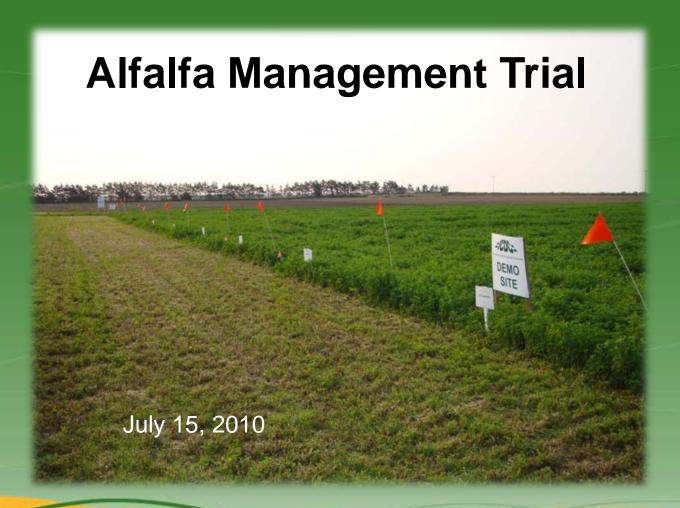


Irrigated Forage Projects at CSIDC

Sarah Sommerfeld, PAg Regional Forage Specialist

Click to add title





Alfalfa Management Trial

- Comparing yield performance of 7 alfalfa varieties in a 3 cut system
- Year 3 of 3
- Cut timing targeted at June 15, August 1, September 15
- 75 lb P₂0₅, 75 lb K₂0 applied annually

- Direct seeded with JD 750 drill on June 4, 2008
- 12.6 lb/acre
- Area per variety = 0.38 acres
- Soil test annually





ALS Laboratory Group Agricultural Services

Phone: 1-800-667-7645

Base Saturation

Ca Mg K Na

% of CEC ---

SOIL TEST REPORT

Dealer / Crop Consultant:

I.C.D.C.

BOX 609

OUTLOOK,SK S0L 2N0

Phone: --

Fax: --

12-24

Email:barry.vestre@agr.gc.ca

Client Information:

NOT SPECIFIED

Sample / Field Information:

Crop Year

2011

Field Name Legal Location

12**SW** SW 15 29 8 W3

Soil Climatic Zone

Brown

Na

GPS Reference

Acres

Previous Crop

Yield

Ca

Stubble Management N/A

Mg

Rotation

N/A

K

ppm

Sample ID 721147

Date Sampled 02-NOV-10

Moderate

SOIL TEST CHARACTERISTIC

Salinity Organic NH₄-N Calculated Depth Texture pH E.C. E.C. Matter CEC Rating (lb/ac) (inches) 1S:2W 1S:2W Calc.Sat.Extr. meq/100g

4.8

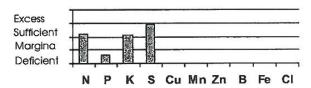
(mS/cm) (mS/cm) 1.4 3.2 Slight 0-12 Loam 7.9

2.2

SOIL TEST NUTRIENT LEVELS

Clay Loam 8.3

Depth (inches)	NO ₃ -N			97270	Mn o/ac		Fe	Cl
0-12	11	20	462	>96				
12-24	5			>86				



Alfalfa Management Trial

Harvest 2011 – June 20, Aug. 4, Sept. 22



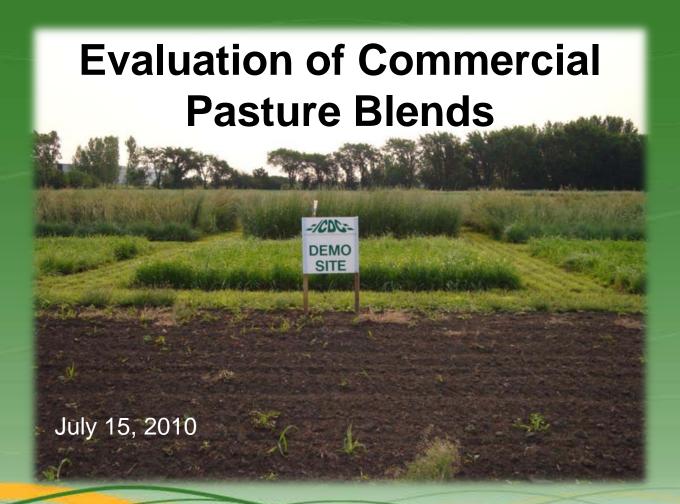
October 14, 2009





2009-2011 Dry Matter Yield Summary (t/a)				
VARIETY	2009	2010	2011	MEAN
	YIELD	YIELD	YIELD	YIELD
2065MF	4.51	5.82	5.43	5.26
AC LONGVIEW	4.78	5.04	5.39	5.07
STEALTH	4.70	5.22	5.16	5.03
53Q30	4.50	5.42	5.14	5.02
HYBRIFORCE 400	4.61	5.29	4.95	4.96
AC BLUE JAY	4.49	5.26	5.07	4.95
CEI EQUINOX	4.43	5.43	4.86	4.91
MEAN	4.57	5.35	5.14	5.02
CV (%)	5.81	5.44	4.96	3.38
LSD (0.05)	0.47	0.51	0.45	0.30
F-Value	0.76	2.79	2.75	1.92







Commercial Pasture Blends

- Evaluate commercial and custom forage blends for yield, persistence and species composition
- Year 2 of 3
- Small plot trial at CSIDC
- 50 lb P₂0₅ and 15 lb K₂0 annually
- N applied on a plot-by-plot basis



Second clipping – June 23, 2011

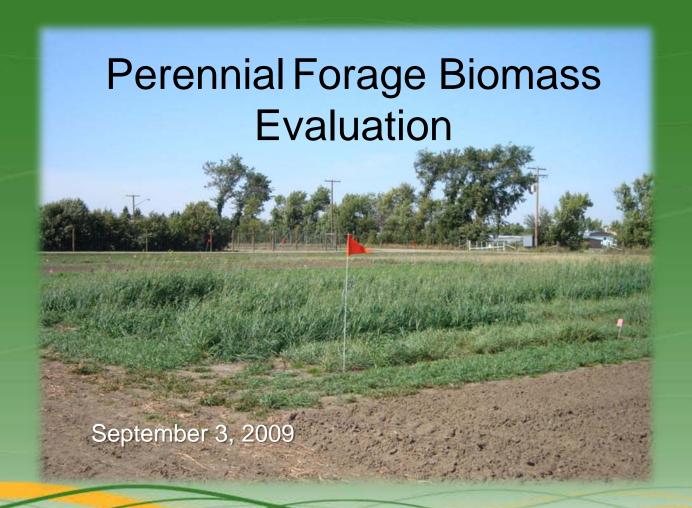


Commercial Pasture Blends

Harvest – May 30, June 23, July 21, Aug. 19

	Total DM Yield	Total DM Yield	Total DM Pasture	Grazing days	Grazing days
Blend	(ton/acre)	(lb./acre)	Yield (lb./acre)	(AUM/ac)	(AU days/acre)
Custom Blend #1	3.84	8453	5917	6.5	197
Northstar Custom Blend	4.91	10811	7568	8.3	252
Custom Blend #2	3.32	7317	5122	5.6	171
Brett-Young Super Pasture Blend	4.89	10785	7550	8.3	252
Viterra Ranchmaster Blend	3.93	8654	6058	6.6	202
Pickseed Haygraze Blend	3.96	8729	6110	6.7	204
Assumptions:					
Pasture yield calculated as total D					
3% of body weight DM requirement = 30 lb DM/AU/day * 30.5 days = 915 lb DM/AUM					
1 AU = one 1000 lb cow with or without calf					







Perennial Forage Biomass

- Measure the forage biomass production of 10 perennial grass species
- Small plot trial at CSIDC
- Year 2 of 3
- 100 lb N, 50 lb P₂0₅, 15 lb K₂0 annually
- Single cut harvest



Perennial Forage Biomass

Harvest – July 25

Species	Yield (t DM/acre)
Western Wheatgrass	3.74
Switchgrass	4.81
Russian Wildrye	4.96
Crested Wheatgrass	5.71
Slender Wheatgrass	6.30
Meadow Bromegrass	6.54
Hybrid Bromegrass	6.80
Tall Wheatgrass	7.31
Intermediate Wheatgrass	7.89
Smooth Bromegrass	8.60



2012 Ideas ??

Continue pasture and biomass trials

Forage fertility

Corn agronomy



A huge thank you and tons of recognition for Sarah Butler & Rory Cranston!!! They did the hard work for me!!