

FIELD EXPERIMENT HISTORY

Title: Alfalfa establishment in corn harvested for silage
Experiment: 18InterSeed **Trial ID:** 5755 **Year:** 2013
Personnel: J. Grabber, J.G. Lauer, M. Renz, T. H. Diallo, K.D. Kohn and M. Volenec
Location: Arlington, **County:** Columbia
Supported By: USDA-ARS

Site Information

Field: 591 **Previous Crop:** Corn **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 11/01/12 **pH:** 6.6 **OM (%)** 3.5 **P (ppm)** 42 **K (ppm)** 107

Plot Management

Tillage Operations: No-Till

	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Fertilizer: Preplant :	N/A	N/A	N/A
Starter :	46-0-0	70	5 /6 /13
Post plant :	46-0-0	90	7 /01/13
Manure:	N/A	N/A	N/A

Herbicide: Roundup Power Max 0.75 lb/A on 5/12/26

Insecticide: None

Irrigation: None

Hybrid/Variety: C: Pioneer 0441AM1
A: WL325 RR.LH

Planting Date: C: 5/6 A:5/7/13

Row Width: C: 30"

Planting Method: C: Kinze corn Planter

Planting Depth: C: 1.5"
A: 0.5"

Target Plant Density: 35000 **Plants/Acre**

Harvest Date: 9/23/13

Harvest Method: Hagee Forage harvester

Notes: Only one Density for Alfalfa retained due to poor stand.

Experimental Design

Design: 2x2 Factorial Split-Plot

Replications: 4

Plot Size Seeded: 10' x 25"

Experiment Size: 0.9 A

Harvest Plot Size: 5' x 25'

Factors/Treatments:

Corn plant density:

Alfalfa plant density

Apogee treatments:

- 1) 25,000 Plants/A
- 2) 35,000 Plants/A

- 1) 16 lb/A

- 1) 13 oz/A. ai: 0.25 kg/ha. Alfalfa @ 20 cm
- 2) 26 oz/A. ai: 0.5 kg/ha. Alfalfa @ 20 cm
- 3) 52 oz/A. ai: 1.0 kg/ha. Alfalfa @ 20 cm
- 7) Corn UTC (no alfalfa)
- 8) No alfalfa UTC
- 9) 26 oz/A. ai:1.0 kg/ha. Alfalfa @ 10 cm

Results: Tables 1318-01

FIELD EXPERIMENT HISTORY

Title: Alfalfa establishment in corn harvested for silage
Experiment: 18Interseed **Trial ID:** 5762 **Year:** 2013
Personnel: J. Grabber, J.G. Lauer, M. Renz, T. H. Diallo, K.D. Kohn and M. Volenec
Location: Prairie Du Sac **County:** Sauk
Supported By: USDA-ARS

Site Information

Field: C:8700 block3 **Previous Crop:** Corn **Soil Type:** RhA,Rhichwood Silt Loam
Soil Test: **Date:** 10/30/13 **pH:** 6.9 **OM (%)** 2.6 **P (ppm)** 32 **K (ppm)** 101

Plot Management

Tillage Operations: No-Till

	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Fertilizer: Preplant :	N/A	N/A	N/A
Starter :	46-0-0	70	5 /20/13
Post plant :	46-0-0	90	6 /28/13
Manure:	N/A	N/A	N/A

Herbicide: Roundup Power Max 0.75 lb/A on 5/12/13

Insecticide: None

Irrigation: None

Hybrid/Variety: C: Pioneer 0441AM1
A: WL325 RR.LH

Planting Date: C: 5/20/13 A: 5/20/13

Row Width: C: 30"

Planting Method: C: Kinze corn Planter

Planting Depth: C: 1.5"
A: 0.5"

Target Plant Density: 35000 **Plants/Acre**

Harvest Date: 9/17/13

Harvest Method: Hagee Forage harvester

Notes:

Experimental Design

Design: 2x2 Factorial-Split

Replications: 4

Plot Size Seeded: 10' x 25"

Experiment Size: 1.5 A

Harvest Plot Size: 5' x 25'

Factors/Treatments:

Corn plant density:

- 1) 25,000 Plants/A
- 2) 35,000 Plants/A

Alfalfa plant density

- 1) 8 lb/A
- 2) 16 lb/A

Apogee treatments:

- 1) 13 oz/A. ai: 0.25 kg/ha. Alfalfa @ 20 cm
- 2) 26 oz/A. ai: 0.5 kg/ha. Alfalfa @ 20 cm
- 3) 52 oz/A. ai: 1.0 kg/ha. Alfalfa @ 20 cm
- 4) 6.5 oz/A. ai: 0.125 kg/ha. Alfalfa @ 10 & 20 cm
- 5) 13 oz/A. ai: 0.25 kg/ha. Alfalfa @ 10 & 20 cm
- 6) 13 oz/A. ai: 0.5 kg/ha. Alfalfa @ 10 & 20 cm
- 7) Corn UTC (no alfalfa)
- 8) No alfalfa UTC
- 10) 13 oz/A. ai: 0.5 kg/ha. No Alfalfa & Alfalfa @ 10 cm

Results: Tables 1318-02

**Table: 1318-02. Alfalfa established in corn harvested for silage
Prairie Du Sac, WI - 2013.**

Corn density plts/A	Alfalfa density oz/A	Apogee rate oz/A a.i.Kg/ha		Alfalfa Height cm	Whole Plant										Harvest density plants/A	
					Dry Matter		Kernel	Crude	<i>In Vitro</i>		Milk per					
					Yield tons/A	Moisture %	Milk %	protein %	ADF %	NDF %	Digest %	NDFD %	Starch %	Ton lbs/T	Acre lbs/T	
25000					8.6	61.2	67.7	6.5	24.9	43.7	83.9	63.2	33.9	3462	29753	24047
35000					9.3	60.0	66.6	6.3	25.4	44.1	83.4	62.5	34.2	3435	32086	34277
	16 lb/A				8.9	60.7	69.3	6.4	25.1	43.9	83.7	63.0	34.0	3452	30863	29413
	8 lb/A				9.0	60.6	64.9	6.4	25.2	43.9	83.6	62.7	34.1	3445	30976	28911
		13	0.25	20	8.5	60.9	68.1	6.3	25.3	44.3	83.7	63.4	33.6	3451	29332	29142
		13	0.5	10 & 20	10.4	60.5	72.8	6.5	25.1	43.7	83.4	62.1	34.1	3436	35903	30993
		26	0.5	20	8.4	61.0	66.7	6.4	25.1	44.0	83.8	63.2	34.1	3454	29090	27922
		52	1	20	8.8	60.7	66.9	6.5	24.9	43.7	84.0	63.4	34.5	3469	30412	28771
		6.5	0.125	10 & 20	8.6	60.6	66.9	6.3	25.1	43.7	83.9	63.2	33.9	3461	29661	28641
		13	0.25	10 & 20	8.7	60.9	63.4	6.4	25.2	44.1	83.6	62.9	33.7	3445	30004	28924
		13	0.5	10 & 20	8.6	60.9	65.6	6.5	24.6	43.2	84.2	63.4	34.6	3483	29973	28771
		0	-	-	8.8	60.2	67.0	6.4	24.9	43.6	83.6	62.4	34.4	3446	30175	29345
		0	-	-	9.9	59.8	66.6	6.3	25.9	44.7	82.7	61.4	33.5	3392	33729	29948
25000	16 lb/A				8.6	60.9	69.3	6.6	24.4	43.1	84.3	63.6	34.5	3489	30048	24016
25000	8 lb/A				8.6	61.5	66.0	6.5	25.4	44.3	83.5	62.8	33.3	3435	29458	24077
35000	16 lb/A				9.3	60.4	69.3	6.3	25.8	44.7	83.2	62.4	33.5	3415	31678	34809
35000	8 lb/A				9.4	59.6	63.8	6.2	25.0	43.5	83.7	62.6	34.8	3455	32495	33744

continue

Table: 1318-02. Alfalfa established in corn harvested for silage

(continued)

Prairie Du Sac, WI - 2013.

Corn density plts/A	Alfalfa density oz/A	Apogee rate oz/A a.i.Kg/ha		Alfalfa Height cm	Whole Plant										Harvest density plants/A	
					Dry Matter		Kernel Milk %	Crude protein %	<i>In Vitro</i>				Milk per			
				Yield tons/A	Moisture %				ADF %	NDF %	Digest %	NDFD %	Starch %	Ton lbs/T	Acre lbs/T	
25000		13	0.25	20	8.1	60.7	70.0	6.3	24.4	43.2	84.7	64.6	34.7	3511	28352	23305
25000		13	0.5	10 & 20	10.3	61.6	69.4	6.7	24.7	43.2	83.8	62.7	34.0	3463	35648	26877
25000		26	0.5	20	8.3	61.7	67.5	6.7	25.1	44.2	83.7	63.0	33.5	3445	28507	24350
25000		52	1	20	8.3	61.0	70.0	6.7	24.6	43.2	84.3	63.6	34.6	3486	28854	23392
25000		6.5	0.125	10 & 20	8.4	60.9	64.4	6.6	25.0	43.9	84.0	63.5	33.3	3465	28975	23566
25000		13	0.25	10 & 20	7.7	62.3	65.0	6.4	25.2	44.2	83.7	63.2	33.1	3450	26741	23130
25000		13	0.5	10 & 20	8.3	60.8	68.1	6.7	24.5	43.3	84.4	63.9	34.2	3491	29093	23261
25000		0	-	-	8.5	60.5	67.1	6.6	24.7	43.7	83.5	62.3	34.2	3440	29148	24452
25000		0	-	-	9.5	61.3	67.5	6.4	25.6	44.3	83.0	61.7	33.8	3409	32462	24089
35000		13	0.25	20	8.9	61.1	66.3	6.3	26.3	45.4	82.8	62.2	32.6	3390	30312	34979
35000		13	0.5	10 & 20	10.6	59.4	76.3	6.3	25.6	44.1	83.0	61.5	34.3	3409	36157	35109
35000		26	0.5	20	8.6	60.3	66.0	6.2	25.1	43.9	83.9	63.3	34.7	3463	29674	31494
35000		52	1	20	9.2	60.5	63.8	6.4	25.2	44.1	83.8	63.3	34.3	3453	31971	34151
35000		6.5	0.125	10 & 20	8.8	60.2	69.4	6.1	25.2	43.6	83.8	62.8	34.5	3458	30346	33715
35000		13	0.25	10 & 20	9.7	59.5	61.9	6.4	25.3	44.1	83.5	62.6	34.4	3440	33267	34717
35000		13	0.5	10 & 20	8.9	61.1	63.1	6.3	24.7	43.1	84.0	62.9	35.0	3476	30852	34282
35000		0	-	-	9.0	59.9	66.9	6.2	25.1	43.5	83.7	62.5	34.7	3452	31202	34238
35000		0	-	-	10.4	58.3	65.6	6.1	26.1	45.1	82.5	61.2	33.2	3375	34995	35806

continue

Table: 1318-02. Alfalfa established in corn harvested for silage

(continued)

Prairie Du Sac, WI - 2013.

Corn density plants/A	Alfalfa density oz/A	Apogee rate oz/A a.i.Kg/ha		Alfalfa Height cm	Whole Plant										Harvest density plants/A	
					Dry Matter		Kernel	Crude	<i>In Vitro</i>		Milk per					
					Yield tons/A	Moisture %	Milk %	protein %	ADF %	NDF %	Digest %	NDFD %	Starch %	Ton lbs/T	Acre lbs/T	
16 lb/A	13	0.25	20	8.3	61.0	70.0	6.2	25.3	44.3	83.9	63.9	33.6	3461	28796	29359	
16 lb/A	13	0.5	10 & 20	10.3	61.0	75.0	6.6	25.5	44.4	82.9	61.6	33.4	3404	35143	31537	
16 lb/A	26	0.5	20	8.3	60.5	70.0	6.5	24.6	43.4	84.0	63.1	34.6	3469	28737	28358	
16 lb/A	52	1	20	8.8	61.6	69.4	6.5	25.0	43.8	84.0	63.5	34.3	3466	30351	29490	
16 lb/A	6.5	0.125	10 & 20	8.3	60.5	71.3	6.2	25.0	43.4	84.1	63.5	34.4	3479	28727	28793	
16 lb/A	13	0.25	10 & 20	8.9	61.0	64.4	6.5	25.0	44.0	83.8	63.1	33.9	3452	30737	29055	
16 lb/A	13	0.5	10 & 20	8.5	60.8	69.4	6.5	24.3	42.8	84.4	63.6	35.0	3499	29627	28793	
16 lb/A	0	-	-	9.0	60.1	68.1	6.6	25.6	44.9	83.1	62.4	33.1	3407	30481	29534	
16 lb/A	0	-	-	10.3	59.5	66.3	6.3	25.3	44.1	83.4	62.3	34.0	3432	35169	29795	
8 lb/A	13	0.25	20	8.7	60.8	66.3	6.3	25.4	44.4	83.6	63.0	33.7	3440	29869	28924	
8 lb/A	13	0.5	10 & 20	10.6	60.0	70.6	6.4	24.8	42.9	83.9	62.5	34.9	3469	36662	30448	
8 lb/A	26	0.5	20	8.6	61.5	63.5	6.4	25.7	44.6	83.6	63.3	33.6	3440	29443	27486	
8 lb/A	52	1	20	8.7	59.8	64.4	6.5	24.7	43.5	84.0	63.4	34.7	3472	30473	28053	
8 lb/A	6.5	0.125	10 & 20	8.9	60.6	62.5	6.5	25.2	44.1	83.6	62.8	33.3	3443	30594	28488	
8 lb/A	13	0.25	10 & 20	8.5	60.9	62.5	6.2	25.5	44.2	83.5	62.7	33.6	3439	29271	28793	
8 lb/A	13	0.5	10 & 20	8.7	61.1	61.9	6.5	24.9	43.6	84.0	63.2	34.1	3468	30318	28750	
8 lb/A	0	-	-	8.6	60.2	65.8	6.2	24.1	42.3	84.1	62.4	35.8	3485	29869	29156	
8 lb/A	0	-	-	9.6	60.2	66.9	6.3	26.4	45.3	82.1	60.5	32.9	3352	32288	30100	

continue

Table: 1318-02. Alfalfa established in corn harvested for silage

(continued)

Prairie Du Sac, WI - 2013.

Corn density	Alfalfa density	Apogee rate		Alfalfa Height	Whole Plant								Milk per		Harvest density	
					Dry Matter		Kernel	Crude	<i>In Vitro</i>		Starch	Ton	Acre			
plts/A	oz/A	oz/A	a.i.Kg/ha	cm	Yield	Moisture	Milk	protein	ADF	NDF	Digest	NDFD	%	lbs/T	lbs/T	plants/A
25000	16 lb/A	13	0.25	20	7.9	59.6	66.3	6.1	23.3	41.8	85.6	65.6	36.5	3574	28136	23261
25000	16 lb/A	13	0.5	10 & 20	9.8	62.8	73.8	6.8	25.3	44.1	83.2	62.0	32.9	3420	33694	27094
25000	16 lb/A	26	0.5	20	8.2	61.2	66.3	6.8	24.5	43.4	83.9	63.0	34.1	3466	28376	24045
25000	16 lb/A	52	1	20	8.6	61.3	72.5	6.7	24.1	42.7	84.7	64.1	35.1	3512	30178	23435
25000	16 lb/A	6.5	0.125	10 & 20	8.0	61.0	67.5	6.5	24.9	43.6	84.4	64.1	33.7	3489	27890	23435
25000	16 lb/A	13	0.25	10 & 20	8.2	62.1	63.8	6.6	24.3	43.4	84.3	63.7	34.0	3485	28698	23087
25000	16 lb/A	13	0.5	10 & 20	8.5	60.3	75.0	6.8	23.7	42.2	84.7	63.9	35.5	3520	30085	23610
25000	16 lb/A	0	-	-	8.2	60.0	67.5	6.6	24.8	43.9	83.6	62.9	33.8	3446	28295	24394
25000	16 lb/A	0	-	-	10.0	60.1	71.3	6.5	24.2	42.8	84.3	63.2	35.3	3491	35085	23784
25000	8 lb/A	13	0.25	20	8.3	61.8	73.8	6.4	25.5	44.7	83.8	63.7	32.9	3448	28569	23348
25000	8 lb/A	13	0.5	10 & 20	10.7	60.5	65.0	6.6	24.0	42.3	84.5	63.4	35.1	3506	37603	26659
25000	8 lb/A	26	0.5	20	8.4	62.2	68.8	6.5	25.8	45.0	83.4	63.1	33.0	3425	28638	24655
25000	8 lb/A	52	1	20	7.9	60.7	67.5	6.7	25.0	43.7	83.9	63.2	34.1	3460	27530	23348
25000	8 lb/A	6.5	0.125	10 & 20	8.7	60.8	61.3	6.7	25.2	44.2	83.6	62.8	32.8	3440	30060	23697
25000	8 lb/A	13	0.25	10 & 20	7.3	62.6	66.3	6.2	26.0	45.0	83.2	62.7	32.1	3416	24784	23174
25000	8 lb/A	13	0.5	10 & 20	8.1	61.3	61.3	6.6	25.2	44.4	84.0	63.9	32.9	3462	28102	22913
25000	8 lb/A	0	-	-	8.8	60.9	66.6	6.5	24.6	43.5	83.4	61.8	34.6	3435	30000	24510
25000	8 lb/A	0	-	-	9.0	62.5	63.8	6.3	26.9	45.8	81.7	60.1	32.2	3327	29839	24394

continue

Table: 1318-02. Alfalfa established in corn harvested for silage

(continued)

Prairie Du Sac, WI - 2013.

Corn density	Alfalfa density	Apogee rate		Alfalfa Height	Whole Plant										Harvest density	
					Dry Matter		Kernel	Crude	<i>In Vitro</i>		Milk per					
plts/A	oz/A	oz/A	a.i.Kg/ha	cm	Yield	Moisture	Milk	protein	ADF	NDF	Digest	NDFD	Starch	Ton	Acre	plants/A
					tons/A	%	%	%	%	%	%	%	%	lbs/T	lbs/T	
35000	16 lb/A	13	0.25	20	8.8	62.4	73.8	6.3	27.3	46.8	82.3	62.2	30.7	3349	29456	35458
35000	16 lb/A	13	0.5	10 & 20	10.8	59.2	76.3	6.4	25.6	44.8	82.7	61.3	33.9	3387	36592	35981
35000	16 lb/A	26	0.5	20	8.4	59.8	73.8	6.2	24.7	43.5	84.0	63.2	35.2	3472	29099	32670
35000	16 lb/A	52	1	20	8.9	62.0	66.3	6.3	26.0	45.0	83.3	62.9	33.4	3421	30525	35545
35000	16 lb/A	6.5	0.125	10 & 20	8.5	60.0	75.0	5.9	25.1	43.2	83.9	62.8	35.1	3469	29564	34151
35000	16 lb/A	13	0.25	10 & 20	9.6	59.9	65.0	6.5	25.7	44.7	83.2	62.5	33.8	3419	32776	35022
35000	16 lb/A	13	0.5	10 & 20	8.4	61.3	63.8	6.3	24.9	43.3	84.1	63.3	34.5	3478	29170	33977
35000	16 lb/A	0	-	-	9.7	60.3	68.8	6.5	26.4	45.9	82.5	62.0	32.5	3369	32667	34674
35000	16 lb/A	0	-	-	10.5	58.8	61.3	6.1	26.3	45.3	82.5	61.3	32.7	3372	35253	35806
35000	8 lb/A	13	0.25	20	9.1	59.8	58.8	6.2	25.3	44.1	83.4	62.3	34.5	3432	31169	34500
35000	8 lb/A	13	0.5	10 & 20	10.4	59.6	76.3	6.2	25.5	43.5	83.3	61.6	34.6	3432	35722	34238
35000	8 lb/A	26	0.5	20	8.8	60.7	58.2	6.2	25.6	44.3	83.8	63.4	34.2	3455	30248	30318
35000	8 lb/A	52	1	20	9.6	58.9	61.3	6.4	24.4	43.3	84.2	63.6	35.2	3485	33416	32757
35000	8 lb/A	6.5	0.125	10 & 20	9.0	60.4	63.8	6.3	25.3	44.0	83.6	62.8	33.9	3446	31128	33280
35000	8 lb/A	13	0.25	10 & 20	9.7	59.2	58.8	6.3	24.9	43.4	83.8	62.8	35.0	3462	33757	34412
35000	8 lb/A	13	0.5	10 & 20	9.4	60.9	62.5	6.4	24.5	42.8	84.0	62.6	35.4	3474	32535	34587
35000	8 lb/A	0	-	-	8.4	59.5	65.0	5.9	23.7	41.2	84.8	63.1	36.9	3536	29738	33803
35000	8 lb/A	0	-	-	10.3	57.8	70.0	6.2	26.0	44.8	82.5	61.0	33.6	3378	34738	35806
Mean		Mean			9.0	60.6	67.1	6.4	25.1	43.9	83.7	62.8	34.1	3449	30920	29162

continue

FIELD EXPERIMENT HISTORY

Title: Regulator-coated alfalfa/corn (RCAC) study.
Experiment: 18InterSeed **Trial ID:** 5760 **Year:** 2013
Personnel: J. Grabber, J.G. Lauer, M. Renz, T. H. Diallo, K.D. Kohn and M. Volenec
Location: Prairie du Sac, WI **County:** Sauk
Supported By: USDA-ARS

Site Information

Field: D:8700 block4 **Previous Crop:** Corn **Soil Type:** RhA, Rhichwood Silt Loam
Soil Test Date: 10/30/13 **pH:** 6.7 **OM (%)** 2.7 **P (ppm)** 32 **K (ppm)** 108

Plot Management

Tillage Operations: No-Till

Fertilizer:	Preplant :	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
		N/A	N/A	N/A
	Starter :	46-0-0	70	5 /20/13
	Post plant :	46-0-0	90	6 /28/13
	Manure:	N/A	N/A	N/A
Herbicide:	Roundup Power Max 0.75 lb/A on 5/12/13		Insecticide:	None
Irrigation:	None		Hybrid:	C: Pioneer 0441AM1 A: WL325 RR.LH
Planting Date:	C: 5/20 A: 5/20/13		Row Width:	C: 30"
Target Plant Density:	35000 Plants/Acre		Planting Depth:	C: 1.5" A: 0.5"
Harvest Date:	9/18/13		Planting Method:	C: Kinze corn Planter A: No-Till Drill
Notes:			Harvest Method:	Hagee Forage harvester

Experimental Design

Design: CRD **Replications:** 4
Plot Size Seeded: 10' x 25" **Experiment Size:** 0.9 A
Harvest Plot Size: 5' x 25'

Factors/Treatments:

AlfalfaSeed Treatment:

- | | |
|--|---|
| <ul style="list-style-type: none"> 1) 0.75 g a.i. Paclobutrazol/kg alfalfa seeded at 18 kg/ha 2) 1.5 g a.i. Paclobutrazol/kg alfalfa seeded at 18 kg/ha 3) 2.25 g a.i. Paclobutrazol/kg alfalfa seeded at 18 kg/ha 4) 3.0 g a.i. Paclobutrazol/kg alfalfa seeded at 18 kg/ha 5) 0.75 g a.i. Uniconazole/kg alfalfa seeded at 18 kg/ha 6) 0.150 g a.i. Uniconazole/kg alfalfa seeded at 18 kg/ha 7) 0.225 g a.i. Uniconazole/kg alfalfa seeded at 18 kg/ha 8) 0.300 g a.i. Uniconazole/kg alfalfa seeded at 18 kg/ha 9) UTC alfalfa @ normal seeding rate of 18 kg/ha 10) UTC alfalfa @ 75% normal seeding rate of 13.5 kg/ha | <ul style="list-style-type: none"> 11) UTC alfalfa @ 50% normal seeding rate of 9 kg/ha 12) 1.5 g Paclobutrazol. alfalfa @ 18 kg/ha. 0.5 kg ai/ha Apogee spr-6 wk post plant 13) 0.150g Uniconazole. alfalfa @ 18 kg/ha. 0.5 kg ai/ha Apogee spr-6 wk post plant 14) UTC alfalfa @ 18 kg/ha. 0.5 kg ai/ha Apogee spray ~6 wks post plant 15) No alfalfa seed |
|--|---|

Results: Tables 1318-03

**Table: 1318-03 . Silage corn response to Alfalfa establishment techniques.
Prairie du Sac, WI-2013**

Treatment id	Alfalfa seeding Rate Kg/ha	Seed coat Rate per seed gr of a.i./Kg of seed	Gibberillin	0.5 kg a.i./ha Apogee spray 6 wk post plant 0.5	Dry Matter Yield t/A	Whole Plant										Milk per		Harvest density plts/A	Plant Height In
						Moisture %	Kernel Milk %	Crude protein %	ADF %	NDF %	In Vitro Digest %		NDFD %	Starch %	Ton lbs/T	Acre lbs/T			
1	18	0.75	Paclobutrazol	no	9.86	57.7	45.0	6.3	25.2	43.3	83.4	61.6	36.0	3420	33755	49250	91		
2	18	1.5	Paclobutrazol	no	9.43	59.6	40.0	6.2	26.6	45.7	82.0	60.7	34.7	3327	31350	50500	92		
3	18	2.25	Paclobutrazol	no	9.52	59.3	42.5	6.5	27.1	46.5	81.4	60.1	33.4	3285	31303	49375	92		
4	18	3.0	Paclobutrazol	no	9.91	57.7	27.5	6.3	25.3	43.6	83.0	61.0	36.4	3398	33676	49000	92		
5	18	0.75	Uniconazole	no	9.10	57.6	42.5	6.4	25.9	44.5	82.3	60.1	35.4	3348	30473	48000	91		
6	18	0.150	Uniconazole	no	8.99	58.9	37.5	6.3	27.7	47.0	81.3	60.3	32.6	3276	29470	49875	92		
7	18	0.225	Uniconazole	no	9.62	58.2	42.5	6.5	26.3	45.1	82.5	61.2	34.6	3357	32318	49750	91		
8	18	0.300	Uniconazole	no	9.38	58.9	45.0	6.1	27.5	46.9	81.5	60.5	33.7	3286	30812	47875	92		
9	18	UTC	None	no	9.07	58.9	50.0	6.3	25.6	44.2	83.1	61.7	35.8	3394	30776	48750	88		
10	13.5	UTC	None	no	9.51	56.9	42.5	6.3	25.2	43.2	83.8	62.6	36.8	3447	32851	49250	89		
11	9	UTC	None	no	9.67	57.5	32.5	6.2	25.2	43.6	82.9	60.7	36.4	3389	32816	49125	94		
12	18	1.5	Paclobutrazol	yes	9.74	58.7	42.5	6.3	26.2	44.9	82.7	61.5	34.9	3368	32795	48375	94		
13	18	0.150	Uniconazole	yes	8.46	59.2	40.0	6.1	26.5	45.4	82.9	62.3	34.9	3374	28549	47875	86		
14	18	0.5	None	yes	8.84	59.5	37.5	6.3	27.0	46.2	81.9	60.8	34.2	3312	29288	48000	90		
15	0	No alfalfa seed	None	no	9.89	57.5	42.5	6.3	25.9	44.1	82.7	60.9	35.5	3378	33479	50125	95		
					9.40	58.4	40.7	6.3	26.2	44.9	82.5	61.1	35.0	3357	31581	49008	91		
Probability(%)																			
Seed Treatment					1.1	52.9	7.5	87.0	52.2	48.1	33.6	20.4	62.9	36.9	5.5	96.5	0.0		
LSD(0.10)																			
Seed Treatment					0.64	NS	9.6	NS	NS	NS	NS	NS	NS	NS	NS	2905	NS	3	