Title: 2012 Apogee

Personnel: Mark Renz, John Albright

Location: Arlington

Plot information:

A. Field no: 330A
B. Soil type:
C. % OM:
D. pH:
E. Variety:
F. Date planted:
G. Planting pop:
H. Planting depth:
I. Row spacing:
J. Date(s) harvested:
K. Plot size:
L. No. reps/design:

Herbicide application data:

A. Application equipment: "backpack" CO2 sprayer, GPA=20, PSI=39 Nozzle tips=8003 VS flat fan, Spacing=20 inches, # Nozzles=6, Broadcast width=10 ft, Mix size=2 liters.

B. Incorporation equipment:

C. Date treated:	6/22/2012	7/2/2012
D. Treatment:	A	B
E. Soil moisture (top)	DRY	DRY
F. Soil temperature (F) at 2":	-	-
G. Air temperature (F):	79	85
H. Wind, MPH/direction:	2-6 W	0-2 S
I. Relative humidity (%):	31	43
J. Cloud cover (%):	70	?
K. Alfalfa average height (cm):	15.25	24.55
L. Corn average height (cm):	49.9	81.6

Previous Crop and Tillage:

Fertilization: none

Other Pesticides Used:
Notes: 6/22 Corn is Dry & Leaves are 'rolling' a bit, but seems okay, although dry. Alfalfa looks good. No hopper damage.

Apogee stays mixed in solution. This order of mixing: 95% water, citric acd, ams, apogee, agitate, coc, remaining water always agitated in the field too.

7/2 Corn Canopy not yet closed. Upper leaves are touching with the draught weather all corn plants have rolling leaves. Alfalfa looks okay.

Alfalfa established in corn harvest for silage
Arlington, WI 2012

Apogee Treatments	Dry Matter Yield, tons/A
13 oz/A @ V4-V5 & V6-V7	5.2
26 oz/A @ V4-V5 & @ V6-V7	4.9
13 oz/A @ V6-V7	4.9
26 oz/A @ V6-V7	4.9
52 oz/A @ V6-V7	4.7
Alfalfa UTC	5.4
CORN UTC (No Alfalfa)	5.8
CORN UTC, 52 oz/A	5.9
CORN UTC, 26 oz/A @ V4-5 & @ V6-7	6.2

Alfalfa height at Arlington after Apogee application
Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
CornPop	1	5.51	0.77	0.4169
AlfPop	1	54.1	16.18	0.0002
CornPop*AlfPop	1	53.9	4.97	0.03
Apogee	6	18.2	16.9	< .0001
CornPop*Apogee	6	54	1.15	0.3476
Alfpop*Apogee	6	54	0.7	0.6521
CornPop*Alfpop*Apogee	6	54	0.99	0.4419

Corn height at Arlington after Apogee application
Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
CornPop	1	3	5.86	0.0941
AlfPop	1	3	33.6	0.0102
CornPop*AlfPop	1	111	0.11	0.7446
Apogee	9	111	11.13	<.0001
CornPop*Apogee	9	111	1.24	0.2775
Alfpop*Apogee	9	111	0.64	0.7644
CornPop*Alfpop*Apogee	9	111	0.27	0.9804

CORN
Effect = Apogee
Method = LSD (P< .05)

Obs	Corn Pop	Alf Pop	Apogee	Estimate	Standard Error	Letter Group
5	-	-	1	144.06	4.2257	CD
6	-	-	2	135.94	4.2257	DE
7	-	-	3	128.75	4.2257	EF
8	-	-	4	135.94	4.2257	DE
9	-	-	5	123.75	4.2257	F
10	-	-	6	142.81	4.2257	CD
11	-	-	7	155.31	4.2257	A
12	-	-	8	147.5	4.2257	ABC
13	-	-	9	153.13	4.2257	AB
14	-	-	10	144.69	4.2257	BC

ALFALFA
Effect = Apogee
Method = LSD (P< .05)

Obs	Corn Pop	Alf Pop	Apogee	Estimate	Standard Error	Letter Group
5	-	-	1	29.625	1.1892	B
6	-	-	2	29.125	1.1892	B
7	-	-	3	28.625	1.1892	B
8	-	-	4	26.5625	1.1892	BC
9	-	-	5	23.6476	1.2194	C
10	-	-	6	36.125	1.892	A
11	-	-	10	37.1392	1.2194	A