

Title: 2012 Monsanto RR Alfalfa Warrant Arlington

Personnel: Mark Renz, John Albright

Location: Arlington Research Station

Plot information:

- | | |
|---------------------------------|-----------------------------------|
| A. Field no: 368 | G. Planting pop: 13 lb/a |
| B. Soil type: Plano Silt Loam | H. Planting depth: 0-0.25" |
| C. % OM: 3.2% | I. Row spacing: Broadcast seeder |
| D. pH: 6.8 | J. Date harvested: August 8, 2012 |
| E. Variety: DKA41-18 RR Alfalfa | K. Plot size: 10 X 25 ft |
| F. Date planted: April 28th | L. No. reps/design: 3/RCB |

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:	April 12 th	April 28 th	May 31 st	June 21 st	Sept. 27
D. Treatment:	14 PRE (A)	PRE (B)	(C)	(D)	(E)
E. Soil moisture (top):	DRY	MOIST	WET	DRY	V. DRY
F. Soil temperature (F) at 2":	50	50	55	75	52
G. Air temperature (F):	55	57	54	80	58
H. Wind, MPH/direction:	0-2 W	0-6 SE	1-8 NE	4-8W	0-4 NE
I. Relative humidity (%):	21	28	55	46	47
J. Cloud cover (%):	0	30	95	80	0
K. Alfalfa height (in):			1½ -3½	4-8	2-7
L. CHEAL (in):			2-4	2-8	--
M. AMBEL (in):			3-5	6-12	--
N. Alfalfa Growth Stage (in):			3-4 Trifoliate		--

Previous Crop and Tillage: 2011 Field corn, Fall Chistle Plow, Spring Culti-Mulch

Fertilization: 2012 none

Other Pesticides Used: June 19th Warrior II insecticide was applied at 1.92 fl. oz/A
For Potato Leaf Hopper control.

Notes: --5/4, 5/18, 6/1 - No injury observed in Alfalfa (B PRE).

-- 5/9 there is no visible injury or loss of stand in any plot or treatment. Alfalfa is growing slowly, <1/2" height & only cotyledon leaves.