

Title: 2012 Monsanto RR Alfalfa Warrant Lancaster

Personnel: Mark Renz, John Albright

Location: Lancaster Research Station, WI

Plot information:

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|---|----------------------------------|
| A. Field no: 100W | G. Planting pop: 15 lb/a |
| B. Soil type: Fayette Silt Loam | H. Planting depth: 0-0.25" |
| C. % OM: 2.6 | I. Row spacing: no-till drill 8" |
| D. pH: 6.9 | J. Date harvested: July 7 |
| E. Variety: DKA41-18RR Alfalfa | K. Plot size: 10 X 25 ft |
| F. Date planted: April 25 th | 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: none

C. Date treated:	April 11 th	April 25 th	May 25 th	June 15 th	Sept. 18 th
D. Treatment:	14 PRE (A)	PRE (B)	C	D	E
E. Soil moisture (top):	DRY	WET	DRY	V. DRY	V. DRY
F. Soil temperature (F) at 2":	49	50	73	80	63
G. Air temperature (F):	51	53	87	88	61
H. Wind, MPH/direction:	0-3 NW	1-6 S	0-3 N	2-9 SE	3-10 NW
I. Relative humidity (%):	31	71	49	22	33
J. Cloud cover (%):	0	100	80	70	50
K. Alfalfa height (in):			2-3½	9-14	5-10
L. CHEAL height (in):			1-4	6-16	--
M. SETFA height (in):			1-3	4-12	--
N. Alfalfa growth:			3-4 Trifoliate		variable
P. SETFA growth:			2-4 Leaves		--

Previous Crop and Tillage: 2011 Soybeans, spring chistle plow & then cultimulched before 14 day PRE

Fertilization: none **Other Pesticides Used:** June 25, Artic 3.2 EC insecticide for potato leafhopper control.

Notes: 5 feet alleys. Difficulty getting seeding depth correct due to tillage being 15 days before April 25th and rains followed, resulting in some irregular compaction.

Sept. 28th; plant counts for density are too variable to be reliable. Therefore % visual ratings for stand loss were taken.