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## SPRAY COVERAGE AND VMD50 WITH NORMAL WEED SCIENCE APPLICATIONS

Trial ID: NZ-02-15      Study Dir.: GLENN RAINS  
 Location: TIFTON      Investigator: Eric P. Prostko

Reps: 5      Plots: 2.5 by 10 feet  
 Spray vol: 15 GAL/AC      Mix Size: 3 liters (calculated mix size .16294)

Trt No.	Treatment Name	Amt Product to Measure	Rep				
			1	2	3	4	5
1	11002DG LOCATION1		101	203	302	406	504
2	11002DG LOCATION2		102	205	303	402	503
3	AIXR 11002 LOCATION1		103	201	304	401	505
4	AIXR 11002 LOCATION2		104	202	301	404	502
5	TTI02 LOCATION1		105	206	305	403	506
6	TTI02 LOCATION2		106	204	306	405	501

Sort Order: Treatment

### Trial Comments

- September 1, 2015
- 15 GPA
- 3 nozzle boom, 20" spacing
- 20" Boom Height
- 3.5 MPH (walking)
- Wind (<1 MPH)
- 35-40 PSI
- 5- 2" X 3" Kromekote cards (10' X 2.5' spacin
- 3 nozzle types
- - 11002DG
  - AIXR 11002
  - TTI02

#### **SUMMARY:**

1) WHEN AVERAGED OVER CARD LOCATION, THE FOLLOWING WAS OBSERVED:

SPRAY COVERAGE: 11002DG = 11002AIXR > TTI02

VMD50: 11002DG < 11002AIXR < TTI02

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Location:	TIFTON	Investigator:	Eric P. Prostko
Crop Code Part Rated Rating Unit Rating Date # Subsamples, Dec.	SPRAY COVERA - PERCENT Sep-1-15 - 2	VMD50 MICRONS Sep-1-15	
Trt No.	Treatment Name	1	2
TABLE OF R MEANS			
Replicate 1		12.02	413.7
Replicate 2		12.28	418.8
Replicate 3		11.88	410.7
Replicate 4		10.01	411.3
Replicate 5		12.86	426.0
TABLE OF A (NOZZLE TYPE) MEANS			
	1 11002DG	13.37 a	322.3 c
	2 AIXR 11002	12.58 a	401.6 b
	3 TTI02	9.48 b	524.4 a
LSD P=.10		1.798	19.10
Standard Deviation		2.163	22.97
CV		18.311	5.52
TABLE OF B (LOCATION) MEANS			
	1 LOCATION1	11.69 a	420.3 a
	2 LOCATION2	11.93 a	411.9 a
LSD P=.10		1.872	10.74
Standard Deviation		2.405	13.80
CV		20.367	3.32
TABLE OF A (NOZZLE TYPE) B (LOCATION) MEANS			
	1 11002DG 1 LOCATION1	12.98 ab	322.4 e
	2 AIXR 11002 1 LOCATION1	13.54 a	424.8 c
	3 TTI02 1 LOCATION1	8.54 d	513.6 b
	1 11002DG 2 LOCATION2	13.76 a	322.2 e
	2 AIXR 11002 2 LOCATION2	11.62 bc	378.4 d
	3 TTI02 2 LOCATION2	10.42 c	535.2 a
LSD P=.10		1.878	16.41
Standard Deviation		1.597	13.95
CV		13.523	3.35

Means followed by same letter do not significantly differ (P=.10, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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COMPLETE FACTORIAL AOV For SPRAY COVERA PERCENT Sep-1-15 2 (Data Column 1)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	29	212.783497				
R	4	27.725613	6.931403	2.717	0.1068	
A	2	84.429647	42.214823	9.027	0.0089	1.80
RA	8	37.413487	4.676686			
B	1	0.444083	0.444083	0.077	0.7955	1.87
RB	4	23.144067	5.786017			
AB	2	19.220207	9.610103	3.767	0.0703	1.88
RAB	8	20.406393	2.550799			

COMPLETE FACTORIAL AOV For VMD50 MICRONS Sep-1-15 (Data Column 2)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	29	221446.700000				
R	4	981.866667	245.466667	1.261	0.3603	
A	2	207375.800000	103687.900000	196.493	0.0001	19.1
RA	8	4221.533333	527.691667			
B	1	520.833333	520.833333	2.736	0.1734	10.7
RB	4	761.333333	190.333333			
AB	2	6028.066667	3014.033333	15.484	0.0018	16.4
RAB	8	1557.266667	194.658333			

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Crop Code Part Rated Rating Unit Rating Date # Subsamples, Dec.		SPRAY COVERA - PERCENT Sep-1-15 - 2	VMD50 MICRONS Sep-1-15
Trt Treatment			
No.	Name	Plot	
1	11002DG	101	11.21
	LOCATION1	203	11.72
		302	13.03
		406	11.04
		504	17.91
		Mean =	12.98
2	11002DG	102	16.77
	LOCATION2	205	13.68
		303	12.07
		402	11.35
		503	14.91
		Mean =	13.76
3	AIXR 11002	103	11.00
	LOCATION1	201	17.70
		304	13.83
		401	9.76
		505	15.43
		Mean =	13.54
4	AIXR 11002	104	11.84
	LOCATION2	202	11.72
		301	10.91
		404	11.40
		502	12.21
		Mean =	11.62
5	TTI02	105	8.80
	LOCATION1	206	8.59
		305	9.53
		403	7.98
		506	7.80
		Mean =	8.54
6	TTI02	106	12.48
	LOCATION2	204	10.29
		306	11.90
		405	8.53
		501	8.92
		Mean =	10.42