

MSU Weed Science Research Program

Evaluating Warrant for crop safety in dry edible bean

Trial ID: DB07-11 Study Dir.: Sprague, Powell
Conducted: SVREC Investigator: Christy Sprague

Date Planted: 6/6/2011 Row Spacing: 30 IN
Variety: 'Zorro' Black beans No. of Reps: 4
Population: 106,000 seeds/A % OM: 2.6
Soil Type: Clay Loam pH: 7.8
Plot Size: 10 X 30 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Conventional
Fertilizer: None at planting
Crop Code Common Name
1. PHSVX BEAN, BLACK

Application Description

Application Timing: A B C
Date Treated: 6/6/2011 6/7/2011 6/30/2011
Time Treated: 7:30 pm 1:50 pm 6:30 pm
% Cloud Cover: 40 85 5
Air Temp., Unit: 83 F 92 F 81 F
% Relative Humidity: 38 37 26
Wind Speed/Unit/Dir: 6 mph S 2 mph SE 2 mph S
Soil Temp., Unit: 76 F 84 F 94 F
Soil/Leaf Surface M: - - 5 5 5 5
Soil Moist (1=w 5=d): 3 4 3

Crop Stage at Each Application

Crop Name: A B C
Height (In.): - - 6-8"
Stage (L): - - V2

Application Equipment

Appl Sprayer Speed Nozzle Nozzle Nozzle Nozzle Boom
Type MPH Type Size Height Spacing Width GPA Carrier PSI
A Cub 3.8 AirMix 11003 21" 20" 100" 19 Water 28
B Cub 3.8 AirMix 11003 21" 20" 100" 19 Water 28
C Cub 3.8 AirMix 11003 22" 20" 100" 19 Water 28

Comments: 6/6/11: A blanket treatment of Permit (0.67 oz/A) was applied immediately after planting.

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|                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Weed Code          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Crop Code          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rating Data Type   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rating Unit        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rating Date        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Trt-Eval Interval  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| # Subsamples, Dec. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| Trt No.            | Treatment Name | Form Conc | Form Type | Rate | Grow Unit | Stg | Appl Code | PHSVX injury percent 6/30/2011 | PHSVX injury percent 7/8/2011 | PHSVX injury percent 7/14/2011 | PHSVX injury percent 7/28/2011 | PHSVX moisture percent 10/5/2011 | PHSVX yield cwt/acre 10/5/2011 at 18% M |
|--------------------|----------------|-----------|-----------|------|-----------|-----|-----------|--------------------------------|-------------------------------|--------------------------------|--------------------------------|----------------------------------|---|
| 1                  | Warrant        | 3         | L         | 3    | pt/a      | PPI | A         | 10                             | 8                             | 3                              | 0                              | 16.5                             | 22.1                                    |
| 2                  | Warrant        | 3         | L         | 6    | pt/a      | PPI | A         | 14                             | 5                             | 0                              | 0                              | 16.4                             | 23.1                                    |
| 3                  | Dual II Magnum | 7.64      | L         | 1.33 | pt/a      | PPI | A         | 4                              | 3                             | 0                              | 0                              | 15.8                             | 22.8                                    |
| 4                  | Warrant        | 3         | L         | 3    | pt/a      | PRE | B         | 28                             | 13                            | 4                              | 0                              | 15.4                             | 22.7                                    |
| 5                  | Warrant        | 3         | L         | 6    | pt/a      | PRE | B         | 50                             | 33                            | 21                             | 0                              | 15.7                             | 21.9                                    |
| 6                  | Dual II Magnum | 7.64      | L         | 1.33 | pt/a      | PRE | B         | 14                             | 9                             | 5                              | 0                              | 15.7                             | 20.8                                    |
| 7                  | Warrant        | 3         | L         | 3    | pt/a      | V2  | C         | 0                              | 5                             | 5                              | 0                              | 16.4                             | 21.1                                    |
| 8                  | Warrant        | 3         | L         | 6    | pt/a      | V2  | C         | 0                              | 25                            | 29                             | 0                              | 15.3                             | 20.3                                    |
| 9                  | Dual II Magnum | 7.64      | L         | 1.33 | pt/a      | V2  | C         | 0                              | 4                             | 2                              | 0                              | 16.1                             | 20.1                                    |
| 10                 | Untreated      |           |           |      |           |     |           | 0                              | 0                             | 0                              | 0                              | 16.1                             | 21.3                                    |
| LSD (P=.05)        |                |           |           |      |           |     |           | 5.7                            | 7.1                           | 6.4                            | 0.0                            | 0.88                             | 1.82                                    |
| Standard Deviation |                |           |           |      |           |     |           | 3.9                            | 4.9                           | 4.4                            | 0.0                            | 0.61                             | 1.26                                    |
| CV                 |                |           |           |      |           |     |           | 32.75                          | 47.58                         | 65.85                          | 0.0                            | 3.82                             | 5.8                                     |

Means followed by same letter do not significantly differ (P=.05, LSD)

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