

Tank-contamination of dicamba in dry edible beans

Trial ID: DB01-18 Study Dir.: Bales, Sprague
 Conducted: SVREC Investigator: Christy Sprague

Planting Date: Jun-19-2018 **Row Spacing:** 30 IN
Variety: 'Zenith' black bean **No. of Reps:** 4
Population: 109000 seeds/A **% OM:** 2.5
Soil Type: SCL sandy clay loam **pH:** 7.7
Plot Size: 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall primary tillage followed by spring soil finish
Fertilizer:

Crop and Weed Description

| Weed | Code | Common Name | Scientific Name |
|------|-------|-----------------|-----------------|
| 1 | | | |
| Crop | Code | Common Name | |
| 1 | PHSVX | Dry edible bean | |

Application Description

| | A | B |
|---------------------------------------|-------------|-------------|
| Application Timing: | V2 POST | V5 POST |
| Date Treated: | Jul-11-2018 | Jul-18-2018 |
| Time Treated: | 12:15 PM | 10:00 AM |
| % Cloud Cover: | 5 | 0 |
| Air Temp., Unit: | 78 F | 73 F |
| % Relative Humidity: | 46 | 63 |
| Wind Speed/Unit/Dir: | 7 mph N | 3 mph W |
| Soil Temp, Unit: | 78 F | 72 F |
| Leaf Moist/Dew Presence (Y/N): | 5 | 4 |
| Soil Moist: | 4 | 4 |

Crop Stage at Each Application

| | A | B |
|---------------------|-------|-------|
| Crop 1 Name: | PHSVX | PHSVX |
| Height: | 6 " | 12 " |
| Stage: | V2 | V5-V6 |

Weed Stage at Each Application

| | A | B |
|---------------------|---|---|
| Weed 1 Name: | | |
| Height: | | |
| Stage: | | |

Application Equipment

| Appl | Sprayer | Ground Speed | Nozzle Type | Nozzle Size | Nozzle Height | Nozzle Spacing | Boom Width | Spray Volume | Carrier | Operation Pressure |
|------|---------|--------------|-------------|-------------|---------------|----------------|------------|--------------|---------|--------------------|
| A | CUB | 3.8 mph | AIXR | 11003 | 14 " | 20 " | 100 " | 19 GPA | WATER | 30 PSI |
| B | CUB | 3.8 mph | AIXR | 11003 | 27 " | 20 " | 100 " | 19 GPA | WATER | 30 PSI |

Comments:

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Protocol ID: DB 03-18 Investigator: Christy Sprague
Study Director: Bales, Sprague

| Pest Code | PHSVX | PHSVX | PHSVX | PHSVX | PHSVX | PHSVX |
|--------------------|---------|---------|---------|---------|----------|----------|
| Crop Code | | | | | | |
| Rating Date | | | | | | |
| Rating Type | injury | injury | injury | injury | moisture | yield |
| Rating Unit | percent | percent | percent | percent | percent | cwt/acre |
| Trt-Eval Interval | 7 DAT | 14 DAT | 21 DAT | 28 DAT | | at 18% M |
| Number of Decimals | 0 | 0 | 0 | 0 | 1 | 1 |

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Growth Stage | Appl Code | | | | | | |
|---------|-----------------------|-----------|-----------|--------------|-----------|--------------|-----------|----|----|----|---|------|------|
| 1 | Untreated | | | | | | | 0 | 0 | 0 | 0 | 17.7 | 36.8 |
| 2 | Raptor | 1 L | | 4 fl oz/a | | POST-V2 A | | 0 | 0 | 0 | 0 | 17.2 | 35.4 |
| | Basagran | 4 L | | 16 fl oz/a | | POST-V2 A | | | | | | | |
| | Crop oil concentrate | L | | 1 % v/v | | POST-V2 A | | | | | | | |
| | AMS | WG | | 2.5 lb/a | | POST-V2 A | | | | | | | |
| 3 | Reflex | 2 L | | 1 pt/a | | POST-V2 A | | 0 | 0 | 0 | 0 | 17.1 | 31.3 |
| | Crop oil concentrate | L | | 1 % v/v | | POST-V2 A | | | | | | | |
| 4 | XtendiMax (1%) | 2.9 L | | 0.22 fl oz/a | | POST-V2 A | | 15 | 16 | 15 | 4 | 17.5 | 33.5 |
| 5 | XtendiMax (1%) | 2.9 L | | 0.22 fl oz/a | | POST-V2 A | | 17 | 21 | 22 | 8 | 17.6 | 30.3 |
| | Raptor | 1 L | | 4 fl oz/a | | POST-V2 A | | | | | | | |
| | Basagran | 4 L | | 16 fl oz/a | | POST-V2 A | | | | | | | |
| | Crop oil concentrate | L | | 1 % v/v | | POST-V2 A | | | | | | | |
| | AMS | WG | | 2.5 lb/a | | POST-V2 A | | | | | | | |
| 6 | XtendiMax (1%) | 2.9 L | | 0.22 fl oz/a | | POST-V2 A | | 19 | 19 | 20 | 6 | 17.7 | 32.2 |
| | Reflex | 2 L | | 1 pt/a | | POST-V2 A | | | | | | | |
| | Crop oil concentrate | L | | 1 % v/v | | POST-V2 A | | | | | | | |
| 7 | XtendiMax (1%) | 2.9 L | | 0.22 fl oz/a | | POST-V2 A | | 19 | 19 | 16 | 6 | 17.7 | 34.3 |
| | Roundup PowerMax (1%) | 4.5 SL | | 0.30 fl oz/a | | POST-V2 A | | | | | | | |
| 8 | XtendiMax (1%) | 2.9 L | | 0.22 fl oz/a | | POST-V2 A | | 23 | 25 | 25 | 9 | 17.7 | 29.8 |
| | Roundup PowerMax (1%) | 4.5 SL | | 0.30 fl oz/a | | POST-V2 A | | | | | | | |
| | Raptor | 1 L | | 4 fl oz/a | | POST-V2 A | | | | | | | |
| | Basagran | 4 L | | 16 fl oz/a | | POST-V2 A | | | | | | | |
| | Crop oil concentrate | L | | 1 % v/v | | POST-V2 A | | | | | | | |
| | AMS | WG | | 2.5 lb/a | | POST-V2 A | | | | | | | |
| 9 | XtendiMax (1%) | 2.9 L | | 0.22 fl oz/a | | POST-V2 A | | 24 | 24 | 22 | 8 | 17.5 | 32.0 |
| | Roundup PowerMax (1%) | 4.5 SL | | 0.30 fl oz/a | | POST-V2 A | | | | | | | |
| | Reflex | 2 L | | 1 pt/a | | POST-V2 A | | | | | | | |
| | Crop oil concentrate | L | | 1 % v/v | | POST-V2 A | | | | | | | |
| 10 | Untreated | | | | | | | 0 | 0 | 0 | 0 | 17.8 | 36.6 |
| 11 | Raptor | 1 L | | 4 fl oz/a | | POST-V5 B | | 0 | 0 | 0 | 0 | 17.1 | 35.6 |
| | Basagran | 4 L | | 16 fl oz/a | | POST-V5 B | | | | | | | |
| | Crop oil concentrate | L | | 1 % v/v | | POST-V5 B | | | | | | | |
| | AMS | WG | | 2.5 lb/a | | POST-V5 B | | | | | | | |
| 12 | Reflex | 2 L | | 1 pt/a | | POST-V5 B | | 0 | 0 | 0 | 0 | 19.2 | 37.1 |
| | Crop oil concentrate | L | | 1 % v/v | | POST-V5 B | | | | | | | |
| 13 | XtendiMax (1%) | 2.9 L | | 0.22 fl oz/a | | POST-V5 B | | 14 | 17 | 15 | 5 | 18.3 | 30.8 |

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| | | | | | | | | | | | |
|--------------------|--|--|--|--|--|---------|---------|---------|---------|----------|----------|
| Pest Code | | | | | | | | | | | |
| Crop Code | | | | | | PHSVX | PHSVX | PHSVX | PHSVX | PHSVX | PHSVX |
| Rating Date | | | | | | | | | | | |
| Rating Type | | | | | | injury | injury | injury | injury | moisture | yield |
| Rating Unit | | | | | | percent | percent | percent | percent | percent | cwt/acre |
| Trt-Eval Interval | | | | | | 7 DAT | 14 DAT | 21 DAT | 28 DAT | | at 18% M |
| Number of Decimals | | | | | | 0 | 0 | 0 | 0 | 1 | 1 |

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Growth Stage | Appl Code | | | | | | |
|--------------------|-----------------------|-----------|-----------|------|-----------|--------------|-----------|-------|-------|-------|-------|------|------|
| 14 | XtendiMax (1%) | 2.9 | L | 0.22 | fl oz/a | POST-V5 B | | 16 | 18 | 18 | 7 | 18.4 | 29.7 |
| 14 | Raptor | 1 | L | 4 | fl oz/a | POST-V5 B | | | | | | | |
| 14 | Basagran | 4 | L | 16 | fl oz/a | POST-V5 B | | | | | | | |
| 14 | Crop oil concentrate | | L | 1 | % v/v | POST-V5 B | | | | | | | |
| 14 | AMS | | WG | 2.5 | lb/a | POST-V5 B | | | | | | | |
| 15 | XtendiMax (1%) | 2.9 | L | 0.22 | fl oz/a | POST-V5 B | | 19 | 21 | 17 | 7 | 18.1 | 28.3 |
| 15 | Reflex | 2 | L | 1 | pt/a | POST-V5 B | | | | | | | |
| 15 | Crop oil concentrate | | L | 1 | % v/v | POST-V5 B | | | | | | | |
| 16 | XtendiMax (1%) | 2.9 | L | 0.22 | fl oz/a | POST-V5 B | | 19 | 20 | 18 | 5 | 17.9 | 32.7 |
| 16 | Roundup PowerMax (1%) | 4.5 | SL | 0.30 | fl oz/a | POST-V5 B | | | | | | | |
| 17 | XtendiMax (1%) | 2.9 | L | 0.22 | fl oz/a | POST-V5 B | | 21 | 21 | 20 | 9 | 18.1 | 28.6 |
| 17 | Roundup PowerMax (1%) | 4.5 | SL | 0.30 | fl oz/a | POST-V5 B | | | | | | | |
| 17 | Raptor | 1 | L | 4 | fl oz/a | POST-V5 B | | | | | | | |
| 17 | Basagran | 4 | L | 16 | fl oz/a | POST-V5 B | | | | | | | |
| 17 | Crop oil concentrate | | L | 1 | % v/v | POST-V5 B | | | | | | | |
| 17 | AMS | | WG | 2.5 | lb/a | POST-V5 B | | | | | | | |
| 18 | XtendiMax (1%) | 2.9 | L | 0.22 | fl oz/a | POST-V5 B | | 24 | 24 | 20 | 9 | 17.7 | 28.4 |
| 18 | Roundup PowerMax (1%) | 4.5 | SL | 0.30 | fl oz/a | POST-V5 B | | | | | | | |
| 18 | Reflex | 2 | L | 1 | pt/a | POST-V5 B | | | | | | | |
| 18 | Crop oil concentrate | | L | 1 | % v/v | POST-V5 B | | | | | | | |
| LSD P=.05 | | | | | | | | 2.2 | 2.4 | 2.5 | 2.2 | 0.74 | 4.13 |
| Standard Deviation | | | | | | | | 1.6 | 1.7 | 1.7 | 1.6 | 0.52 | 2.91 |
| CV | | | | | | | | 12.35 | 11.87 | 13.75 | 34.98 | 2.94 | 8.91 |