

**Preharvest treatments for dry bean desiccation**

Trial ID: DB04-19      Study Dir.: Sprague, Stiles, Powell  
 Conducted: Shiawassee County      Investigator: Christy Sprague

**Planting Date:** Jun-29-2019      **Row Spacing:** 20 IN  
**Variety:** 'Zenith' black bean      **No. of Reps:** 4  
**Population:** 105000 seeds/A      **% OM:** 2.6  
**Soil Type:** L loam      **pH:** 6.8  
**Plot Size:** 10 X 25 FT      **Study Design:** Randomized Complete Block (RCB)

**Tillage/Previous Crops:** Spring soil finished 2X  
**Fertilizer:**

**Crop and Weed Description**

Weed	Code	Common Name	Scientific Name
1			
Crop	Code	Common Name	
1	PHSVX	Dry bean	

**Application Description**

**A**  
**Application Timing:** 70-80% y pod  
**Date Treated:** Sep-24-2019  
**Time Treated:** 11:30 AM  
**% Cloud Cover:** 10  
**Air Temp., Unit:** 70 F  
**% Relative Humidity:** 60  
**Wind Speed/Unit/Dir:** 6 mph W  
**Soil Temp, Unit:** 65 F  
**Leaf Moist/Dew Presence (Y/N):** 5  
**Soil Moist:** 3

**Crop Stage at Each Application**

**A**  
**Crop 1 Name:** PHSVX  
**Height:** 14 "  
**Stage:** 70-80% y

**Weed Stage at Each Application**

**A**  
**Weed 1 Name:**  
**Height:**  
**Stage:**

**Application Equipment**

Appl	Sprayer	Ground	Nozzle	Nozzle	Nozzle	Nozzle	Boom	Spray	Carrier	Operation
	Type	Speed	Type	Size	Height	Spacing	Width	Volume		Pressure
A	CUB	3.8 MPH	AIXR	11003	37 "	20 "	100 "	19 GPA	WATER	30 PSI

**Comments:**

## Preharvest treatments for dry bean desiccation

Trial ID: DB04-19

Location: Shiawassee County

Trial Year: 2019

Protocol ID: DB04-19

Investigator: Christy Sprague

Project ID:

Study Director: Sprague, Stiles, Powell

Sponsor Contact:

Pest Code					
Crop Type, Code					
Rating Date					
Rating Type					
Rating Unit					
Trt-Eval Interval					
Number of Decimals					
	PHSVX	PHSVX	PHSVX	PHSVX	PHSVX
	Sep-27-2019	Oct-1-2019	Oct-1-2019	Oct-1-2019	Oct-8-2019
	desiccation	leaf desicc	pod desicc	stem desicc	desiccation
	percent	percent	percent	percent	percent
	3 DA-A	7 DA-A	7 DA-A	7 DA-A	14 DA-A
	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Appl Timing	Appl Code					
1	Homeplate	L		3 % v/v		80% YELLOW A		70	76	74	78	88
2	Homeplate	L		5 % v/v		80% YELLOW A		71	79	74	78	89
3	Homeplate	L		7 % v/v		80% YELLOW A		69	75	70	71	87
4	Untreated							58	63	71	72	87
5	Sharpen	1.85 L		1 fl oz/a		80% YELLOW A		82	96	99	93	100
5	MSO	L		1 % v/v		80% YELLOW A						
5	AMS	WG		17 lb/100 gal		80% YELLOW A						
6	Gramoxone	3 L		1.33 pt/a		80% YELLOW A		86	91	87	83	94
6	Surfactant	L		0.25 % v/v		80% YELLOW A						
7	Sharpen	1.85 L		1 fl oz/a		80% YELLOW A		89	96	98	94	99
7	Gramoxone	3 L		1.33 pt/a		80% YELLOW A						
7	MSO	L		1 % v/v		80% YELLOW A						
7	AMS	WG		17 lb/100 gal		80% YELLOW A						
8	Untreated							60	63	75	71	81
	LSD P=.05							8.3	10.9	8.8	8.4	5.9
	Standard Deviation							5.6	7.4	6.0	5.7	4.0
	CV							7.68	9.31	7.36	7.13	4.41