

Impact of Outlook POST on dry edible beans

Trial ID: DB01-21 Study Dir.: Sprague, Stiles, Powell
 Conducted: Campus, B-11 Investigator:

Planting Date: Jun-1-2021 **Row Spacing:** 30 IN
Variety: 'Zenith' **No. of Reps:** 4
Population: 109000 seeds/A **% OM:** 2.6
Soil Type: CL clay loam **pH:** 7.2
Plot Size: 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plow; spring disk; spring soil finish; 200 lb 19-19-19 at plant.
Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	AMBEL	common ragweed	Ambrosia artemisiifolia
Crop	Code	Common Name	
1	PHAVU	black bean	

Application Description

A
Application Timing: POST
Date Treated: Jul-2-2021
Time Treated: 12:05 PM
% Cloud Cover: 50
Air Temp., Unit: 72 F
% Relative Humidity: 51
Wind Speed/Unit/Dir: 10 MPH N
Soil Temp, Unit: 70 F
Leaf Moist/Dew Presence (Y/N): N
Soil Moist: 3

Crop Stage at Each Application

A
Crop 1 Name: PHAVU
Height: 4-8 " (6)
Stage: V2

Weed Stage at Each Application

A
Weed 1 Name: AMBEL
Height: 1-3 " (2)
Stage: 4L-8L (6L)

Application Equipment

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	Spray Volume	Carrier	Operation Pressure
A	CUB	3.8 MPH	AIXR	11003	24.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	30 PSI

Comments: Prowl H2O at 2 pt/A + Outlook at 11 fl oz/A were applied PRE and incorporated (PPI) on June 1.

Michigan State University

Impact of Outlook POST on dry edible beans

Trial ID: DB01-21

Location: Campus, B-11

Trial Year: 2021

Protocol ID: DB01-21

Investigator (Creator): Christy Sprague

Study Director: Sprague, Stiles, Powell

Project ID:

Sponsor Contact:

						AMBEL					
						C, PHAVU	C, PHAVU	C, PHAVU	C, PHAVU		C, PHSVU
						Jul-5-2021	Jul-9-2021	Jul-16-2021	Jul-30-2021	Jul-30-2021	Sep-27-2021
						injury	injury	injury	injury	control	moisture
						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	18%, -, -
						3 DA-A	7 DA-A	14 DA-A	28 DA-A	28 DA-A	87 DA-A
						0	0	0	0	0	1
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Timing Code	1	2	3	4	5	6
1	Varisto	4.18	L	21 fl oz/a	POST A						
	Crop oil concentrate		L	1 % v/v	POST A						
	AMS		WG	2.5 lb/a	POST A						
2	Outlook	6	L	10 fl oz/a	POST A	3	9	5	3	77	15.1
	Varisto	4.18	L	21 fl oz/a	POST A						
	Crop oil concentrate		L	1 % v/v	POST A						
	AMS		WG	2.5 lb/a	POST A						
3	Outlook	6	L	20 fl oz/a	POST A	4	3	8	3	86	16.3
	Varisto	4.18	L	21 fl oz/a	POST A						
	Crop oil concentrate		L	1 % v/v	POST A						
	AMS		WG	2.5 lb/a	POST A						
4	Outlook	6	L	20 fl oz/a	POST A	11	9	12	3	91	14.4
	Varisto	4.18	L	42 fl oz/a	POST A						
	Crop oil concentrate		L	1 % v/v	POST A						
	AMS		WG	2.5 lb/a	POST A						
5	Untreated					0	0	0	0	0	16.8
6	Reflex	2	L	1 pt/a	POST A	13	18	10	2	100	14.2
	Varisto	4.18	L	21 fl oz/a	POST A						
	Crop oil concentrate		L	1 % v/v	POST A						
	AMS		WG	2.5 lb/a	POST A						
7	Outlook	6	L	10 fl oz/a	POST A	11	16	4	0	100	15.2
	Reflex	2	L	1 pt/a	POST A						
	Varisto	4.18	L	21 fl oz/a	POST A						
	Crop oil concentrate		L	1 % v/v	POST A						
	AMS		WG	2.5 lb/a	POST A						
8	Outlook	6	L	10 fl oz/a	POST A	11	13	5	1	100	14.5
	Reflex	2	L	1 pt/a	POST A						
	Varisto	4.18	L	21 fl oz/a	POST A						
	Crop oil concentrate		L	0.5 % v/v	POST A						
	AMS		WG	2.5 lb/a	POST A						
9	Dual II Magnum	7.64	L	1.33 pt/a	POST A	19	19	19	6	100	14.0
	Reflex	2	L	1 pt/a	POST A						
	Varisto	4.18	L	21 fl oz/a	POST A						
	Crop oil concentrate		L	1 % v/v	POST A						
	AMS		WG	2.5 lb/a	POST A						
10	Warrant	3	L	3 pt/a	POST A	12	14	18	6	100	15.3
	Reflex	2	L	1 pt/a	POST A						
	Varisto	4.18	L	21 fl oz/a	POST A						
	Crop oil concentrate		L	1 % v/v	POST A						
	AMS		WG	2.5 lb/a	POST A						
11	Outlook	6	L	10 fl oz/a	POST A	12	15	17	6	100	15.6
	Reflex	2	L	1 pt/a	POST A						
	Crop oil concentrate		L	1 % v/v	POST A						
	AMS		WG	2.5 lb/a	POST A						
	LSD P= .05					6.5	8.3	11.7	6.9	5.6	0.63
	Standard Deviation					4.4	5.7	8.0	4.7	3.8	0.43
	CV					45.23	47.86	82.17	150.55	4.46	2.82

Impact of Outlook POST on dry edible beans

Trial ID: DB01-21

Location: Campus, B-11

Trial Year: 2021

Protocol ID: DB01-21

Investigator (Creator): Christy Sprague

Project ID:

Study Director: Sprague, Stiles, Powell

Sponsor Contact:

Pest Code
 Crop Type, Code C, PHSVU
 Rating Date Sep-27-2021
 Rating Type yield
 Rating Unit/Min/Max CWT/A, -, -
 Trt-Eval Interval 87 DA-A
 Number of Decimals 1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code	7
1	Varisto	4.18 L		21 fl oz/a		POST A	A	31.6
	Crop oil concentrate	L		1 % v/v		POST A	A	
	AMS	WG		2.5 lb/a		POST A	A	
2	Outlook	6 L		10 fl oz/a		POST A	A	27.8
	Varisto	4.18 L		21 fl oz/a		POST A	A	
	Crop oil concentrate	L		1 % v/v		POST A	A	
	AMS	WG		2.5 lb/a		POST A	A	
3	Outlook	6 L		20 fl oz/a		POST A	A	32.4
	Varisto	4.18 L		42 fl oz/a		POST A	A	
	Crop oil concentrate	L		1 % v/v		POST A	A	
	AMS	WG		2.5 lb/a		POST A	A	
4	Untreated							18.8
5	Reflex	2 L		1 pt/a		POST A	A	33.8
	Varisto	4.18 L		21 fl oz/a		POST A	A	
	Crop oil concentrate	L		1 % v/v		POST A	A	
	AMS	WG		2.5 lb/a		POST A	A	
6	Outlook	6 L		10 fl oz/a		POST A	A	33.5
	Reflex	2 L		1 pt/a		POST A	A	
	Varisto	4.18 L		21 fl oz/a		POST A	A	
	Crop oil concentrate	L		1 % v/v		POST A	A	
	AMS	WG		2.5 lb/a		POST A	A	
7	Outlook	6 L		10 fl oz/a		POST A	A	37.1
	Reflex	2 L		1 pt/a		POST A	A	
	Varisto	4.18 L		21 fl oz/a		POST A	A	
	Crop oil concentrate	L		0.5 % v/v		POST A	A	
	AMS	WG		2.5 lb/a		POST A	A	
8	Dual II Magnum	7.64 L		1.33 pt/a		POST A	A	32.3
	Reflex	2 L		1 pt/a		POST A	A	
	Varisto	4.18 L		21 fl oz/a		POST A	A	
	Crop oil concentrate	L		1 % v/v		POST A	A	
	AMS	WG		2.5 lb/a		POST A	A	
9	Warrant	3 L		3 pt/a		POST A	A	30.0
	Reflex	2 L		1 pt/a		POST A	A	
	Varisto	4.18 L		21 fl oz/a		POST A	A	
	Crop oil concentrate	L		1 % v/v		POST A	A	
	AMS	WG		2.5 lb/a		POST A	A	
10	Outlook	6 L		10 fl oz/a		POST A	A	29.0
	Reflex	2 L		1 pt/a		POST A	A	
	Crop oil concentrate	L		1 % v/v		POST A	A	
	AMS	WG		2.5 lb/a		POST A	A	
	LSD P=.05							6.01
	Standard Deviation							3.41
	CV							11.11