

Weed control and dry bean tolerance with various herbicide programs

Trial ID: DB01-25 Study Dir.: Stiles, Sprague
 Conducted: Campus, T-16 Investigator: Christy Sprague

Planting Date: Jun-9-2025 **Row Spacing:** 30 "
Variety: Black Beard **No. of Reps:** 4
Population: 109000 S/A **% OM:** 1.8
Soil Type: L loam **pH:** 6.0
Plot Size: 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plow, spring field cultivator and soil finished twice. 210 lbs/A of 19-19-19 was applied 2x2 with the planter.

Fertilizer:

Crop and Weed Description			
Weed	Code	Common Name	Scientific Name
1	ANGR	mostly giant foxtail and barnyardgrass	annual grass
2	CHEAL	common lambsquarters	Chenopodium album
3	AMAPO	Powell amaranth	Amaranthus powellii
4	AMBEL	common ragweed	Ambrosia artemisiifolia
5	ABUTH	velvetleaf	Abutilon theophrasti
6	SOLPT	eastern black nightshade	Solanum ptychanthum
Crop	Code	Common Name	
1	PHSVX	dry bean	

Application Description			
	A	B	C
Application Timing:	PP1	PRE1	POST
Date Treated:	Jun-9-2025	Jun-9-2025	Jul-1-2025
Time Treated:	2:00 PM	3:45 PM	2:10 PM
% Cloud Cover:	100	100	9
Air Temp., Unit:	75 F	75 F	82 F
% Relative Humidity:	39		50
Wind Speed/Unit/Dir:	9 MPH SSW	9 MPH SSW	7 MPH WNW
Soil Temp, Unit:	72 F	72 F	97 F
Leaf Moist/Dew Presence (Y/N):	N	N	N
Soil Moist:	5	5	5

Crop Stage at Each Application			
	A	B	C
Crop 1 Name:	PHSVX	PHSVX	PHSVX
Height:			8-10 " (9)
Stage:			V2/V3

Weed Stage at Each Application			
	A	B	C
Weed 1 Name:	ANGR	ANGR	ANGR
Height:			8-10 " (3)
Stage:			2-6L
Weed 2 Name:	CHEAL	CHEAL	CHEAL
Height:			1-3 " (2)
Stage:			4-8L
Weed 3 Name:	AMAPO	AMAPO	AMAPO
Height:			1-2 " (1.5)
Stage:			2-6L
Weed 4 Name:	AMBEL	AMBEL	AMBEL
Height:			1 FT
Stage:			2L
Weed 5 Name:	ABUTH	ABUTH	ABUTH
Height:			2.5 "
Stage:			4L
Weed 6 Name:	SOLPT	SOLPT	SOLPT
Height:			2 "
Stage:			2-4L

Weed Density						
	1	2	3	4	5	6
Date:	Jul-1-2025	Jul-1-2025	Jul-1-2025	Jul-1-2025	Jul-1-2025	Jul-1-2025
Weed Name:	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	SOLPT
Density:	10 FT2	2 FT2	2 FT2	1 FT2	1 FT2	1 FT2

Application Equipment

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Trial ID: DB01-25

Study Dir.: Stiles, Sprague

Conducted: Campus, T-16

Investigator: Christy Sprague

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	18.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	30 PSI
B	CUB	3.8 MPH	AIXR	11003	18.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	30 PSI
C	CUB	3.8 MPH	AIXR	11003	30.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	30 PSI

Comments:

Michigan State University

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Trial ID: DB01-25

Protocol ID: DB01-25 Location: Campus, T-16 Trial Year: 2025

Study Director: Stiles, Sprague Sponsor Contact:

Investigator: Christy Sprague

Rating Date	Jun-30-2025	Jun-30-2025	Jun-30-2025	Jun-30-2025	Jun-30-2025	Jul-8-2025	Jul-8-2025
Rating Type	injury	control	control	control	control	injury	control
Rating Unit	%	%	%	%	%	%	%
Crop Type, Code	C, PHSVX					C, PHSVX	
Pest Code		ANGR	CHEAL	AMAPO	ABUTH		ANGR
Treatment Appl. Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	7 DA-C	7 DA-C
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate Rate Unit	Appl Code	Appl Timing							
1	Prowl H2O	2 pt/a	A	PPI	10	87	99	99	96	6	93
	Outlook	11 fl oz/a	A	PPI							
	Varisto	21 fl oz/a	C	POST							
	Outlook	10 fl oz/a	C	POST							
	Superb HC	2 qt/100 gal	C	POST							
	AMS	2.5 lb/a	C	POST							
2	Pendalin H2O	2 pt/a	A	PPI	5	81	91	96	100	3	89
	Outlook	11 fl oz/a	A	PPI							
	Varisto	21 fl oz/a	C	POST							
	Outlook	10 fl oz/a	C	POST							
	Superb HC	2 qt/100 gal	C	POST							
	AMS	2.5 lb/a	C	POST							
3	SatelliteHydroCap	2 pt/a	A	PPI	3	82	94	93	100	4	91
	Outlook	11 fl oz/a	A	PPI							
	Varisto	21 fl oz/a	C	POST							
	Outlook	10 fl oz/a	C	POST							
	Superb HC	2 qt/100 gal	C	POST							
	AMS	2.5 lb/a	C	POST							
4	Untreated				0	0	0	0	0	0	0
5	Eptam	3 pt/a	A	PPI	8	93	99	99	100	3	96
	Outlook	11 fl oz/a	A	PPI							
	Varisto	21 fl oz/a	C	POST							
	Outlook	10 fl oz/a	C	POST							
	Superb HC	2 qt/100 gal	C	POST							
	AMS	2.5 lb/a	C	POST							
6	Eptam	3 pt/a	A	PPI	2	88	100	99	100	2	93
	Prowl H2O	1.6 pt/a	A	PPI							
	Varisto	21 fl oz/a	C	POST							
	Outlook	10 fl oz/a	C	POST							
	Superb HC	2 qt/100 gal	C	POST							
	AMS	2.5 lb/a	C	POST							
7	Sonalan HFP	2.5 pt/a	A	PPI	5	91	100	100	100	0	80
	Eptam	3 pt/a	A	PPI							
	Permit	0.67 oz/a	A	PPI							
8	Sonalan HFP	2.5 pt/a	A	PPI	1	89	100	100	100	0	74
	Eptam	3 pt/a	A	PPI							
	Permit	0.67 oz/a	B	PRE							
9	Sonalan HFP	2.5 pt/a	A	PPI	1	90	99	100	100	1	80
	Eptam	3 pt/a	A	PPI							
	Permit	0.67 oz/a	C	POST							
	Surfactant	0.25 % v/v	C	POST							
10	Prowl H2O	2 pt/a	A	PPI	3	85	99	100	99	6	91
	Outlook	11 fl oz/a	A	PPI							
	Reflex	1 pt/a	C	POST							
	Varisto	21 fl oz/a	C	POST							
	Outlook	10 fl oz/a	C	POST							
	Superb HC	2 qt/100 gal	C	POST							
	AMS	2.5 lb/a	C	POST							

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Protocol ID: DB01-25 Location: Campus, T-16 Trial Year: 2025

Study Director: Stiles, Sprague Sponsor Contact:

Investigator: Christy Sprague

Rating Date	Jun-30-2025	Jun-30-2025	Jun-30-2025	Jun-30-2025	Jun-30-2025	Jul-8-2025	Jul-8-2025				
Rating Type	injury	control	control	control	control	injury	control				
Rating Unit	%	%	%	%	%	%	%				
Crop Type, Code	C, PHSVX					C, PHSVX					
Pest Code		ANGR	CHEAL	AMAPO	ABUTH		ANGR				
Treatment Appl. Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	7 DA-C	7 DA-C				
Number of Decimals	0	0	0	0	0	0	0				
Trt No.	Treatment Name	Rate Rate Unit	Appl Code	Appl Timing							
11	Prowl H2O	2 pt/a	A	PPI	2	85	94	100	96	5	90
	Outlook	11 fl oz/a	A	PPI							
	Reflex	1 pt/a	C	POST							
	Varisto	21 fl oz/a	C	POST							
	Outlook	10 fl oz/a	C	POST							
	Stallion	16 fl oz/a	C	POST							
	Legend Elite	32 fl oz/a	C	POST							
	AMS	2.5 lb/a	C	POST							
12	Prowl H2O	2 pt/a	A	PPI	5	85	96	100	100	5	92
	Outlook	11 fl oz/a	A	PPI							
	Reflex	1 pt/a	C	POST							
	Varisto	21 fl oz/a	C	POST							
	Outlook	10 fl oz/a	C	POST							
	Stallion	16 fl oz/a	C	POST							
	Legend Elite	32 fl oz/a	C	POST							
	Triad	8 fl oz/a	C	POST							
	AMS	2.5 lb/a	C	POST							
LSD P=.05					5.4	5.4	6.1	4.6	3.8	2.4	6.1
Standard Deviation					3.8	3.7	4.2	3.2	2.7	1.7	4.2
CV					105.41	4.68	4.73	3.55	2.94	58.67	5.26

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Study Director: Stiles, Sprague Sponsor Contact:

Investigator: Christy Sprague

Rating Date					Jul-8-2025	Jul-8-2025	Jul-8-2025	Jul-8-2025	Jul-8-2025	Jul-15-2025	Jul-15-2025	
Rating Type					control	control	control	control	control	injury	control	
Rating Unit					%	%	%	%	%	%	%	
Crop Type, Code										C, PHSVX		
Pest Code					CHEAL	AMAPO	AMBEL	ABUTH	SOLPT		ANGR	
Treatment Appl. Interval					7 DA-C	7 DA-C	7 DA-C	7 DA-C	7 DA-C	14 DA-C	14 DA-C	
Number of Decimals					0	0	0	0	0	0	0	
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	Appl Timing							
1	Prowl H2O	2 pt/a	A	PPI		100	100	100	100	100	0	96
	Outlook	11 fl oz/a	A	PPI								
	Varisto	21 fl oz/a	C	POST								
	Outlook	10 fl oz/a	C	POST								
	Superb HC	2 qt/100 gal	C	POST								
	AMS	2.5 lb/a	C	POST								
2	Pendalin H2O	2 pt/a	A	PPI		99	98	100	100	100	0	88
	Outlook	11 fl oz/a	A	PPI								
	Varisto	21 fl oz/a	C	POST								
	Outlook	10 fl oz/a	C	POST								
	Superb HC	2 qt/100 gal	C	POST								
	AMS	2.5 lb/a	C	POST								
3	SatelliteHydroCap	2 pt/a	A	PPI		100	99	100	100	100	0	91
	Outlook	11 fl oz/a	A	PPI								
	Varisto	21 fl oz/a	C	POST								
	Outlook	10 fl oz/a	C	POST								
	Superb HC	2 qt/100 gal	C	POST								
	AMS	2.5 lb/a	C	POST								
4	Untreated					0	0	0	0	0	0	0
5	Eptam	3 pt/a	A	PPI		100	100	100	100	100	0	98
	Outlook	11 fl oz/a	A	PPI								
	Varisto	21 fl oz/a	C	POST								
	Outlook	10 fl oz/a	C	POST								
	Superb HC	2 qt/100 gal	C	POST								
	AMS	2.5 lb/a	C	POST								
6	Eptam	3 pt/a	A	PPI		100	100	100	100	100	0	97
	Prowl H2O	1.6 pt/a	A	PPI								
	Varisto	21 fl oz/a	C	POST								
	Outlook	10 fl oz/a	C	POST								
	Superb HC	2 qt/100 gal	C	POST								
	AMS	2.5 lb/a	C	POST								
7	Sonalan HFP	2.5 pt/a	A	PPI		100	98	100	100	63	0	81
	Eptam	3 pt/a	A	PPI								
	Permit	0.67 oz/a	A	PPI								
8	Sonalan HFP	2.5 pt/a	A	PPI		100	100	100	100	66	0	79
	Eptam	3 pt/a	A	PPI								
	Permit	0.67 oz/a	B	PRE								
9	Sonalan HFP	2.5 pt/a	A	PPI		100	100	100	100	63	0	85
	Eptam	3 pt/a	A	PPI								
	Permit	0.67 oz/a	C	POST								
	Surfactant	0.25 % v/v	C	POST								
10	Prowl H2O	2 pt/a	A	PPI		100	100	100	100	100	0	90
	Outlook	11 fl oz/a	A	PPI								
	Reflex	1 pt/a	C	POST								
	Varisto	21 fl oz/a	C	POST								
	Outlook	10 fl oz/a	C	POST								
	Superb HC	2 qt/100 gal	C	POST								
	AMS	2.5 lb/a	C	POST								

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Study Director: Stiles, Sprague Sponsor Contact:

Investigator: Christy Sprague

Rating Date	Jul-8-2025	Jul-8-2025	Jul-8-2025	Jul-8-2025	Jul-8-2025	Jul-15-2025	Jul-15-2025				
Rating Type	control	control	control	control	control	injury	control				
Rating Unit	%	%	%	%	%	%	%				
Crop Type, Code	C, PHSVX										
Pest Code	CHEAL	AMAPO	AMBEL	ABUTH	SOLPT		ANGR				
Treatment Appl. Interval	7 DA-C	7 DA-C	7 DA-C	7 DA-C	7 DA-C	14 DA-C	14 DA-C				
Number of Decimals	0	0	0	0	0	0	0				
Trt	Treatment	Rate	Appl	Appl							
No.	Name	Rate Unit	Code	Timing							
11	Prowl H2O	2 pt/a	A	PPI	99	100	100	100	100	0	90
	Outlook	11 fl oz/a	A	PPI							
	Reflex	1 pt/a	C	POST							
	Varisto	21 fl oz/a	C	POST							
	Outlook	10 fl oz/a	C	POST							
	Stallion	16 fl oz/a	C	POST							
	Legend Elite	32 fl oz/a	C	POST							
	AMS	2.5 lb/a	C	POST							
12	Prowl H2O	2 pt/a	A	PPI	100	100	100	100	100	0	89
	Outlook	11 fl oz/a	A	PPI							
	Reflex	1 pt/a	C	POST							
	Varisto	21 fl oz/a	C	POST							
	Outlook	10 fl oz/a	C	POST							
	Stallion	16 fl oz/a	C	POST							
	Legend Elite	32 fl oz/a	C	POST							
	Triad	8 fl oz/a	C	POST							
	AMS	2.5 lb/a	C	POST							
LSD P=.05					0.9	2.4	.	.	6.9	.	7.3
Standard Deviation					0.6	1.7	0.0	0.0	4.8	0.0	5.1
CV					0.68	1.85	0.0	0.0	5.77	0.0	6.2

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Protocol ID: DB01-25 Location: Campus, T-16 Trial Year: 2025

Study Director: Stiles, Sprague Sponsor Contact:

Investigator: Christy Sprague

Rating Date	Jul-15-2025	Jul-15-2025	Jul-15-2025	Jul-15-2025	Jul-29-2025	Jul-29-2025	Jul-29-2025
Rating Type	control	control	control	control	injury	control	control
Rating Unit	%	%	%	%	%	%	%
Crop Type, Code	C, PHSVX						
Pest Code	CHEAL	AMAPO	ABUTH	AMBEL		ANGR	CHEAL
Treatment Appl. Interval	14 DA-C	14 DA-C	14 DA-C	14 DA-C	28 DA-C	28 DA-C	28 DA-C
Number of Decimals	0	0	0	0	0	0	0
Trt No.	Treatment Name	Rate Rate Unit	Appl Code	Appl Timing			
1	Prowl H2O	2 pt/a	A	PPI	100	100	100
	Outlook	11 fl oz/a	A	PPI			
	Varisto	21 fl oz/a	C	POST			
	Outlook	10 fl oz/a	C	POST			
	Superb HC	2 qt/100 gal	C	POST			
	AMS	2.5 lb/a	C	POST			
2	Pendalin H2O	2 pt/a	A	PPI	100	100	100
	Outlook	11 fl oz/a	A	PPI			
	Varisto	21 fl oz/a	C	POST			
	Outlook	10 fl oz/a	C	POST			
	Superb HC	2 qt/100 gal	C	POST			
	AMS	2.5 lb/a	C	POST			
3	SatelliteHydroCap	2 pt/a	A	PPI	100	100	100
	Outlook	11 fl oz/a	A	PPI			
	Varisto	21 fl oz/a	C	POST			
	Outlook	10 fl oz/a	C	POST			
	Superb HC	2 qt/100 gal	C	POST			
	AMS	2.5 lb/a	C	POST			
4	Untreated				0	0	0
5	Eptam	3 pt/a	A	PPI	100	100	100
	Outlook	11 fl oz/a	A	PPI			
	Varisto	21 fl oz/a	C	POST			
	Outlook	10 fl oz/a	C	POST			
	Superb HC	2 qt/100 gal	C	POST			
	AMS	2.5 lb/a	C	POST			
6	Eptam	3 pt/a	A	PPI	100	100	100
	Prowl H2O	1.6 pt/a	A	PPI			
	Varisto	21 fl oz/a	C	POST			
	Outlook	10 fl oz/a	C	POST			
	Superb HC	2 qt/100 gal	C	POST			
	AMS	2.5 lb/a	C	POST			
7	Sonalan HFP	2.5 pt/a	A	PPI	100	100	100
	Eptam	3 pt/a	A	PPI			
	Permit	0.67 oz/a	A	PPI			
8	Sonalan HFP	2.5 pt/a	A	PPI	100	100	100
	Eptam	3 pt/a	A	PPI			
	Permit	0.67 oz/a	B	PRE			
9	Sonalan HFP	2.5 pt/a	A	PPI	98	100	100
	Eptam	3 pt/a	A	PPI			
	Permit	0.67 oz/a	C	POST			
	Surfactant	0.25 % v/v	C	POST			
10	Prowl H2O	2 pt/a	A	PPI	100	100	100
	Outlook	11 fl oz/a	A	PPI			
	Reflex	1 pt/a	C	POST			
	Varisto	21 fl oz/a	C	POST			
	Outlook	10 fl oz/a	C	POST			
	Superb HC	2 qt/100 gal	C	POST			
	AMS	2.5 lb/a	C	POST			

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Study Director: Stiles, Sprague Sponsor Contact:

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Rating Date	Jul-29-2025	Jul-29-2025	Jul-29-2025	Oct-3-2025	Oct-3-2025	Oct-3-2025	Oct-3-2025
Rating Type	control	control	control	control	control	control	moisture
Rating Unit	%	%	%	%	%	%	%
Crop Type, Code							C, PSHVX
Pest Code	AMAPO	AMBEL	SOLPT	ANGR	CHEAL	AMAPO	
Treatment Appl. Interval	28 DA-C	28 DA-C	28 DA-C	94 DA-C	94 DA-C	94 DA-C	94 DA-C
Number of Decimals	0	0	0	0	0	0	1
Trt No.	Treatment Name	Rate Rate Unit	Appl Code	Appl Timing			
1	Prowl H2O	2 pt/a	A	PPI	100	100	100
	Outlook	11 fl oz/a	A	PPI			
	Varisto	21 fl oz/a	C	POST			
	Outlook	10 fl oz/a	C	POST			
	Superb HC	2 qt/100 gal	C	POST			
	AMS	2.5 lb/a	C	POST			
2	Pendalin H2O	2 pt/a	A	PPI	100	100	100
	Outlook	11 fl oz/a	A	PPI			
	Varisto	21 fl oz/a	C	POST			
	Outlook	10 fl oz/a	C	POST			
	Superb HC	2 qt/100 gal	C	POST			
	AMS	2.5 lb/a	C	POST			
3	SatelliteHydroCap	2 pt/a	A	PPI	100	100	100
	Outlook	11 fl oz/a	A	PPI			
	Varisto	21 fl oz/a	C	POST			
	Outlook	10 fl oz/a	C	POST			
	Superb HC	2 qt/100 gal	C	POST			
	AMS	2.5 lb/a	C	POST			
4	Untreated				0	0	0
5	Eptam	3 pt/a	A	PPI	100	100	100
	Outlook	11 fl oz/a	A	PPI			
	Varisto	21 fl oz/a	C	POST			
	Outlook	10 fl oz/a	C	POST			
	Superb HC	2 qt/100 gal	C	POST			
	AMS	2.5 lb/a	C	POST			
6	Eptam	3 pt/a	A	PPI	100	100	100
	Prowl H2O	1.6 pt/a	A	PPI			
	Varisto	21 fl oz/a	C	POST			
	Outlook	10 fl oz/a	C	POST			
	Superb HC	2 qt/100 gal	C	POST			
	AMS	2.5 lb/a	C	POST			
7	Sonalan HFP	2.5 pt/a	A	PPI	100	100	63
	Eptam	3 pt/a	A	PPI			
	Permit	0.67 oz/a	A	PPI			
8	Sonalan HFP	2.5 pt/a	A	PPI	100	100	58
	Eptam	3 pt/a	A	PPI			
	Permit	0.67 oz/a	B	PRE			
9	Sonalan HFP	2.5 pt/a	A	PPI	100	100	53
	Eptam	3 pt/a	A	PPI			
	Permit	0.67 oz/a	C	POST			
	Surfactant	0.25 % v/v	C	POST			
10	Prowl H2O	2 pt/a	A	PPI	100	100	100
	Outlook	11 fl oz/a	A	PPI			
	Reflex	1 pt/a	C	POST			
	Varisto	21 fl oz/a	C	POST			
	Outlook	10 fl oz/a	C	POST			
	Superb HC	2 qt/100 gal	C	POST			
	AMS	2.5 lb/a	C	POST			

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Study Director: Stiles, Sprague Sponsor Contact:

Investigator: Christy Sprague

Rating Date	Jul-29-2025	Jul-29-2025	Jul-29-2025	Oct-3-2025	Oct-3-2025	Oct-3-2025	Oct-3-2025
Rating Type	control	control	control	control	control	control	moisture
Rating Unit	%	%	%	%	%	%	%
Crop Type, Code							C, PSHVX
Pest Code	AMAPO	AMBEL	SOLPT	ANGR	CHEAL	AMAPO	
Treatment Appl. Interval	28 DA-C	28 DA-C	28 DA-C	94 DA-C	94 DA-C	94 DA-C	94 DA-C
Number of Decimals	0	0	0	0	0	0	1
Trt No.	Treatment Name	Rate Rate Unit	Appl Code	Appl Timing			
11	Prowl H2O	2 pt/a	A	PPI	100	100	100
	Outlook	11 fl oz/a	A	PPI			
	Reflex	1 pt/a	C	POST			
	Varisto	21 fl oz/a	C	POST			
	Outlook	10 fl oz/a	C	POST			
	Stallion	16 fl oz/a	C	POST			
	Legend Elite	32 fl oz/a	C	POST			
	AMS	2.5 lb/a	C	POST			
12	Prowl H2O	2 pt/a	A	PPI	100	100	100
	Outlook	11 fl oz/a	A	PPI			
	Reflex	1 pt/a	C	POST			
	Varisto	21 fl oz/a	C	POST			
	Outlook	10 fl oz/a	C	POST			
	Stallion	16 fl oz/a	C	POST			
	Legend Elite	32 fl oz/a	C	POST			
	Triad	8 fl oz/a	C	POST			
	AMS	2.5 lb/a	C	POST			
LSD P=.05					8.0	7.9	5.1
Standard Deviation					0.0	0.0	3.1
CV					0.0	0.0	2.2
					6.86	7.42	3.9
							2.37
							11.18

Could not calculate LSD (% mean diff) or mean separation letters for columns 10,11,13,16,17,18,19,22,23 because error variance is 0.
Mean separation letters are 'na' (not applicable) when error variance is 0

Weed control and dry bean tolerance with various herbicide programs

Trial ID: DB01-25

Protocol ID: DB01-25 Location: Campus, T-16 Trial Year: 2025

Study Director: Stiles, Sprague Sponsor Contact:

Investigator: Christy Sprague

Rating Date	Oct-3-2025
Rating Type	yield
Rating Unit	cwt/A
Crop Type, Code	C, PSHVX
Pest Code	
Treatment Appl. Interval	94 DA-C
Number of Decimals	1

Trt No.	Treatment Name	Rate Rate Unit	Appl Code	Appl Timing	
1	Prowl H2O	2 pt/a	A	PPI	17.1
	Outlook	11 fl oz/a	A	PPI	
	Varisto	21 fl oz/a	C	POST	
	Outlook	10 fl oz/a	C	POST	
	Superb HC	2 qt/100 gal	C	POST	
	AMS	2.5 lb/a	C	POST	
2	Pendalin H2O	2 pt/a	A	PPI	17.4
	Outlook	11 fl oz/a	A	PPI	
	Varisto	21 fl oz/a	C	POST	
	Outlook	10 fl oz/a	C	POST	
	Superb HC	2 qt/100 gal	C	POST	
	AMS	2.5 lb/a	C	POST	
3	SatelliteHydroCap	2 pt/a	A	PPI	16.4
	Outlook	11 fl oz/a	A	PPI	
	Varisto	21 fl oz/a	C	POST	
	Outlook	10 fl oz/a	C	POST	
	Superb HC	2 qt/100 gal	C	POST	
	AMS	2.5 lb/a	C	POST	
4	Untreated				4.0
5	Eptam	3 pt/a	A	PPI	16.7
	Outlook	11 fl oz/a	A	PPI	
	Varisto	21 fl oz/a	C	POST	
	Outlook	10 fl oz/a	C	POST	
	Superb HC	2 qt/100 gal	C	POST	
	AMS	2.5 lb/a	C	POST	
6	Eptam	3 pt/a	A	PPI	15.7
	Prowl H2O	1.6 pt/a	A	PPI	
	Varisto	21 fl oz/a	C	POST	
	Outlook	10 fl oz/a	C	POST	
	Superb HC	2 qt/100 gal	C	POST	
	AMS	2.5 lb/a	C	POST	
7	Sonalan HFP	2.5 pt/a	A	PPI	13.7
	Eptam	3 pt/a	A	PPI	
	Permit	0.67 oz/a	A	PPI	
8	Sonalan HFP	2.5 pt/a	A	PPI	15.1
	Eptam	3 pt/a	A	PPI	
	Permit	0.67 oz/a	B	PRE	
9	Sonalan HFP	2.5 pt/a	A	PPI	15.6
	Eptam	3 pt/a	A	PPI	
	Permit	0.67 oz/a	C	POST	
	Surfactant	0.25 % v/v	C	POST	
10	Prowl H2O	2 pt/a	A	PPI	16.4
	Outlook	11 fl oz/a	A	PPI	
	Reflex	1 pt/a	C	POST	
	Varisto	21 fl oz/a	C	POST	
	Outlook	10 fl oz/a	C	POST	
	Superb HC	2 qt/100 gal	C	POST	
	AMS	2.5 lb/a	C	POST	

Weed control and dry bean tolerance with various herbicide programs

Trial ID: DB01-25

Protocol ID: DB01-25 Location: Campus, T-16 Trial Year: 2025

Study Director: Stiles, Sprague Sponsor Contact:

Investigator: Christy Sprague

Rating Date	Oct-3-2025
Rating Type	yield
Rating Unit	cwt/A
Crop Type, Code	C, PSHVX
Pest Code	
Treatment Appl. Interval	94 DA-C
Number of Decimals	1

Trt No.	Treatment Name	Rate Rate Unit	Appl Code	Appl Timing	
11	Prowl H2O	2 pt/a	A	PPI	16.4
	Outlook	11 fl oz/a	A	PPI	
	Reflex	1 pt/a	C	POST	
	Varisto	21 fl oz/a	C	POST	
	Outlook	10 fl oz/a	C	POST	
	Stallion	16 fl oz/a	C	POST	
	Legend Elite	32 fl oz/a	C	POST	
	AMS	2.5 lb/a	C	POST	
12	Prowl H2O	2 pt/a	A	PPI	16.7
	Outlook	11 fl oz/a	A	PPI	
	Reflex	1 pt/a	C	POST	
	Varisto	21 fl oz/a	C	POST	
	Outlook	10 fl oz/a	C	POST	
	Stallion	16 fl oz/a	C	POST	
	Legend Elite	32 fl oz/a	C	POST	
	Triad	8 fl oz/a	C	POST	
	AMS	2.5 lb/a	C	POST	
LSD P=.05					2.33
Standard Deviation					1.62
CV					10.75