

Reviton use rates and adjuvant systems for dry bean desiccation

Trial ID: DB11-25 Study Dir.: Stiles, Sprague
 Conducted: SVREC Investigator: Christy Sprague

Planting Date: Jun-13-2025 **Row Spacing:** 30 IN
Variety: "Viper" small red bean **No. of Reps:** 4
Population: 109000 S/A **% OM:** 2.3
Soil Type: CL clay loam **pH:** 7.5
Plot Size: 10 X 28 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fal chisel plow: spring cultivated.

Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1			

Crop	Code	Common Name
1	PHSVX	dry bean

Application Description

Application Timing: A
Date Treated: PREHARV
Time Treated: Sep-2-2025
% Cloud Cover: 4:00 PM
Air Temp., Unit: 25
% Relative Humidity: 75 F
Wind Speed/Unit/Dir: 50
Soil Temp, Unit: 2 MPH E
Leaf Moist/Dew Presence (Y/N): 68 F
Soil Moist: N
 5

Crop Stage at Each Application

Crop 1 Name: A
 PHSVX
Height: 18-20 " (20)
Stage: 80%Y

Weed Stage at Each Application

Weed 1 Name: A
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	11002	36.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	40 PSI

Comments:

Desiccation treatments were applied at 80% yellow pods. Viper small red beans are known to have pods mature prior to leaves yellowing. Weed control = Eptam (1 qt/A) + Dual II Magnum (1.33 pt/A) + Satellite Hydrocap (1 qt/A) PPI on May 28. Fertilizer = 330 lb/A of 16-16-13 broadcast and incorporated on May 27.

Michigan State University

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Protocol ID: DB11-25 Location: SVREC Trial Year: 2025

Study Director: Stiles, Sprague Sponsor Contact:

Investigator: Christy Sprague

Rating Date				Sep-5-2025	Sep-5-2025	Sep-5-2025	Sep-5-2025	Sep-9-2025	Sep-9-2025
Rating Type				leaf	stem	pod	whole plant	leaf	stem
Rating Unit				%	%	%	%	%	%
Crop Type, Code						C, PHSVX	C, PHSVX	C, PHSVX	C, PHSVX
Treatment Appl. Interval				3 DA-A	3 DA-A	3 DA-A	3 DA-A	7 DA-A	7 DA-A
Number of Decimals				0	0	0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	Appl Timing				
1	Reviton	0.5 fl oz/a	A	PREHARV		73	86	87	75
	MSO (Helm)	1 % v/v	A	PREHARV					76
	AMS	8.5 lb/100 gal	A	PREHARV					91
2	Reviton	0.75 fl oz/a	A	PREHARV		73	85	87	73
	MSO (Helm)	1 % v/v	A	PREHARV					76
	AMS	8.5 lb/100 gal	A	PREHARV					85
3	Reviton	1 fl oz/a	A	PREHARV		77	83	83	78
	MSO (Helm)	1 % v/v	A	PREHARV					80
	AMS	8.5 lb/100 gal	A	PREHARV					88
4	Reviton	1.25 fl oz/a	A	PREHARV		78	86	85	80
	MSO (Helm)	1 % v/v	A	PREHARV					83
	AMS	8.5 lb/100 gal	A	PREHARV					92
5	Reviton	1.5 fl oz/a	A	PREHARV		79	85	85	78
	MSO (Helm)	1 % v/v	A	PREHARV					81
	AMS	8.5 lb/100 gal	A	PREHARV					88
6	Reviton	2 fl oz/a	A	PREHARV		76	86	86	77
	MSO (Helm)	1 % v/v	A	PREHARV					79
	AMS	8.5 lb/100 gal	A	PREHARV					88
7	Untreated					61	82	82	60
8	Reviton	0.5 fl oz/a	A	PREHARV		75	86	86	76
	Crop oil concentrate (Helm)	1 % v/v	A	PREHARV					80
	AMS	8.5 lb/100 gal	A	PREHARV					87
9	Reviton	0.75 fl oz/a	A	PREHARV		72	85	85	74
	Crop oil concentrate (Helm)	1 % v/v	A	PREHARV					76
	AMS	8.5 lb/100 gal	A	PREHARV					88
10	Reviton	1 fl oz/a	A	PREHARV		73	86	86	73
	Crop oil concentrate (Helm)	1 % v/v	A	PREHARV					76
	AMS	8.5 lb/100 gal	A	PREHARV					88
11	Reviton	1.25 fl oz/a	A	PREHARV		77	85	86	73
	Crop oil concentrate (Helm)	1 % v/v	A	PREHARV					79
	AMS	8.5 lb/100 gal	A	PREHARV					88
12	Reviton	1.5 fl oz/a	A	PREHARV		72	84	85	72
	Crop oil concentrate (Helm)	1 % v/v	A	PREHARV					75
	AMS	8.5 lb/100 gal	A	PREHARV					90
13	Reviton	2 fl oz/a	A	PREHARV		76	83	84	76
	Crop oil concentrate (Helm)	1 % v/v	A	PREHARV					79
	AMS	8.5 lb/100 gal	A	PREHARV					88
14	Reviton	0.5 fl oz/a	A	PREHARV		71	86	86	73
	Surfactant (Helm)	0.25 % v/v	A	PREHARV					75
	AMS	8.5 lb/100 gal	A	PREHARV					88
15	Reviton	0.75 fl oz/a	A	PREHARV		71	86	86	70
	Surfactant (Helm)	0.25 % v/v	A	PREHARV					73
	AMS	8.5 lb/100 gal	A	PREHARV					87
16	Reviton	1 fl oz/a	A	PREHARV		72	85	85	74
	Surfactant (Helm)	0.25 % v/v	A	PREHARV					75
	AMS	8.5 lb/100 gal	A	PREHARV					87
17	Reviton	1.25 fl oz/a	A	PREHARV		76	88	88	77
	Surfactant (Helm)	0.25 % v/v	A	PREHARV					80
	AMS	8.5 lb/100 gal	A	PREHARV					89
18	Reviton	1.5 fl oz/a	A	PREHARV		72	85	85	72
	Surfactant (Helm)	0.25 % v/v	A	PREHARV					75
	AMS	8.5 lb/100 gal	A	PREHARV					88
19	Reviton	2 fl oz/a	A	PREHARV		73	84	85	77
	Surfactant (Helm)	0.25 % v/v	A	PREHARV					75
	AMS	8.5 lb/100 gal	A	PREHARV					91
LSD P=.05						8.7	1.6	1.1	8.2
Standard Deviation						6.2	1.1	0.8	5.8
CV						8.4	1.34	0.92	7.83
									8.43
									4.98

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Protocol ID: DB11-25 Location: SVREC Trial Year: 2025

Study Director: Stiles, Sprague Sponsor Contact:

Investigator: Christy Sprague

Rating Date				Sep-9-2025	Sep-9-2025	Sep-9-2025	Sep-15-2025	Sep-15-2025	Sep-15-2025
Rating Type				pod	whole plant	leaf drop	leaf	stem	pod
Rating Unit				%	%	%	%	%	%
Crop Type, Code				C, PHSVX	C, PHSVX	C, PHSVX	C, PHSVX	C, PHSVX	C, PHSVX
Treatment Appl. Interval				7 DA-A	7 DA-A	7 DA-A	13 DA-A	13 DA-A	13 DA-A
Number of Decimals				0	0	0	0	0	0
Trt No.	Treatment Name	Rate	Appl Code	Appl Timing					
		Rate Unit							
1	Reviton	0.5 fl oz/a	A	PREHARV	97	77	44	99	100
	MSO (Helm)	1 % v/v	A	PREHARV					
	AMS	8.5 lb/100 gal	A	PREHARV					
2	Reviton	0.75 fl oz/a	A	PREHARV	95	76	44	99	100
	MSO (Helm)	1 % v/v	A	PREHARV					
	AMS	8.5 lb/100 gal	A	PREHARV					
3	Reviton	1 fl oz/a	A	PREHARV	97	80	44	99	99
	MSO (Helm)	1 % v/v	A	PREHARV					
	AMS	8.5 lb/100 gal	A	PREHARV					
4	Reviton	1.25 fl oz/a	A	PREHARV	97	83	48	100	100
	MSO (Helm)	1 % v/v	A	PREHARV					
	AMS	8.5 lb/100 gal	A	PREHARV					
5	Reviton	1.5 fl oz/a	A	PREHARV	94	81	45	100	100
	MSO (Helm)	1 % v/v	A	PREHARV					
	AMS	8.5 lb/100 gal	A	PREHARV					
6	Reviton	2 fl oz/a	A	PREHARV	97	79	46	100	100
	MSO (Helm)	1 % v/v	A	PREHARV					
	AMS	8.5 lb/100 gal	A	PREHARV					
7	Untreated				88	60	56	81	91
8	Reviton	0.5 fl oz/a	A	PREHARV	94	80	48	99	100
	Crop oil concentrate (Helm)	1 % v/v	A	PREHARV					
	AMS	8.5 lb/100 gal	A	PREHARV					
9	Reviton	0.75 fl oz/a	A	PREHARV	95	77	45	100	100
	Crop oil concentrate (Helm)	1 % v/v	A	PREHARV					
	AMS	8.5 lb/100 gal	A	PREHARV					
10	Reviton	1 fl oz/a	A	PREHARV	95	77	43	99	100
	Crop oil concentrate (Helm)	1 % v/v	A	PREHARV					
	AMS	8.5 lb/100 gal	A	PREHARV					
11	Reviton	1.25 fl oz/a	A	PREHARV	95	79	46	99	100
	Crop oil concentrate (Helm)	1 % v/v	A	PREHARV					
	AMS	8.5 lb/100 gal	A	PREHARV					
12	Reviton	1.5 fl oz/a	A	PREHARV	97	75	43	100	100
	Crop oil concentrate (Helm)	1 % v/v	A	PREHARV					
	AMS	8.5 lb/100 gal	A	PREHARV					
13	Reviton	2 fl oz/a	A	PREHARV	97	80	45	100	100
	Crop oil concentrate (Helm)	1 % v/v	A	PREHARV					
	AMS	8.5 lb/100 gal	A	PREHARV					
14	Reviton	0.5 fl oz/a	A	PREHARV	95	76	44	100	100
	Surfactant (Helm)	0.25 % v/v	A	PREHARV					
	AMS	8.5 lb/100 gal	A	PREHARV					
15	Reviton	0.75 fl oz/a	A	PREHARV	91	73	44	100	100
	Surfactant (Helm)	0.25 % v/v	A	PREHARV					
	AMS	8.5 lb/100 gal	A	PREHARV					
16	Reviton	1 fl oz/a	A	PREHARV	97	76	45	99	100
	Surfactant (Helm)	0.25 % v/v	A	PREHARV					
	AMS	8.5 lb/100 gal	A	PREHARV					
17	Reviton	1.25 fl oz/a	A	PREHARV	97	80	51	100	100
	Surfactant (Helm)	0.25 % v/v	A	PREHARV					
	AMS	8.5 lb/100 gal	A	PREHARV					
18	Reviton	1.5 fl oz/a	A	PREHARV	95	75	43	99	100
	Surfactant (Helm)	0.25 % v/v	A	PREHARV					
	AMS	8.5 lb/100 gal	A	PREHARV					
19	Reviton	2 fl oz/a	A	PREHARV	97	79	48	100	100
	Surfactant (Helm)	0.25 % v/v	A	PREHARV					
	AMS	8.5 lb/100 gal	A	PREHARV					
LSD P=.05					4.2	8.4	6.5	4.2	1.7
Standard Deviation					3.0	5.9	4.6	2.9	1.2
CV					3.12	7.72	10.08	2.99	1.18

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Study Director: Stiles, Sprague Sponsor Contact:

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Rating Date				Sep-15-2025	Sep-15-2025	Sep-17-2025	Sep-17-2025
Rating Type				whole plant	leaf drop	moisture	yield
Rating Unit				%	%	%	cwt/A
Crop Type, Code				C, PHSVX	C, PHSVX	C, PHSVX	C, PHSVX
Treatment Appl. Interval				13 DA-A	13 DA-A		@18% M
Number of Decimals				0	0	1	1
Trt No.	Treatment Name	Rate Rate Unit	Appl Code	Appl Timing			
1	Reviton	0.5 fl oz/a	A	PREHARV	100	66	14.7
	MSO (Helm)	1 % v/v	A	PREHARV			25.6
	AMS	8.5 lb/100 gal	A	PREHARV			
2	Reviton	0.75 fl oz/a	A	PREHARV	100	70	14.4
	MSO (Helm)	1 % v/v	A	PREHARV			25.6
	AMS	8.5 lb/100 gal	A	PREHARV			
3	Reviton	1 fl oz/a	A	PREHARV	100	66	14.5
	MSO (Helm)	1 % v/v	A	PREHARV			25.6
	AMS	8.5 lb/100 gal	A	PREHARV			
4	Reviton	1.25 fl oz/a	A	PREHARV	100	71	13.9
	MSO (Helm)	1 % v/v	A	PREHARV			24.6
	AMS	8.5 lb/100 gal	A	PREHARV			
5	Reviton	1.5 fl oz/a	A	PREHARV	100	75	14.6
	MSO (Helm)	1 % v/v	A	PREHARV			25.8
	AMS	8.5 lb/100 gal	A	PREHARV			
6	Reviton	2 fl oz/a	A	PREHARV	100	70	14.6
	MSO (Helm)	1 % v/v	A	PREHARV			24.1
	AMS	8.5 lb/100 gal	A	PREHARV			
7	Untreated				75	89	14.4
8	Reviton	0.5 fl oz/a	A	PREHARV	100	74	14.1
	Crop oil concentrate (Helm)	1 % v/v	A	PREHARV			23.2
	AMS	8.5 lb/100 gal	A	PREHARV			
9	Reviton	0.75 fl oz/a	A	PREHARV	100	75	14.5
	Crop oil concentrate (Helm)	1 % v/v	A	PREHARV			24.8
	AMS	8.5 lb/100 gal	A	PREHARV			
10	Reviton	1 fl oz/a	A	PREHARV	100	66	14.6
	Crop oil concentrate (Helm)	1 % v/v	A	PREHARV			25.9
	AMS	8.5 lb/100 gal	A	PREHARV			
11	Reviton	1.25 fl oz/a	A	PREHARV	100	73	14.7
	Crop oil concentrate (Helm)	1 % v/v	A	PREHARV			26.1
	AMS	8.5 lb/100 gal	A	PREHARV			
12	Reviton	1.5 fl oz/a	A	PREHARV	100	70	14.6
	Crop oil concentrate (Helm)	1 % v/v	A	PREHARV			24.5
	AMS	8.5 lb/100 gal	A	PREHARV			
13	Reviton	2 fl oz/a	A	PREHARV	100	73	13.9
	Crop oil concentrate (Helm)	1 % v/v	A	PREHARV			25.6
	AMS	8.5 lb/100 gal	A	PREHARV			
14	Reviton	0.5 fl oz/a	A	PREHARV	100	71	14.6
	Surfactant (Helm)	0.25 % v/v	A	PREHARV			25.8
	AMS	8.5 lb/100 gal	A	PREHARV			
15	Reviton	0.75 fl oz/a	A	PREHARV	100	76	14.1
	Surfactant (Helm)	0.25 % v/v	A	PREHARV			26.3
	AMS	8.5 lb/100 gal	A	PREHARV			
16	Reviton	1 fl oz/a	A	PREHARV	100	75	14.4
	Surfactant (Helm)	0.25 % v/v	A	PREHARV			25.6
	AMS	8.5 lb/100 gal	A	PREHARV			
17	Reviton	1.25 fl oz/a	A	PREHARV	100	79	14.7
	Surfactant (Helm)	0.25 % v/v	A	PREHARV			26.2
	AMS	8.5 lb/100 gal	A	PREHARV			
18	Reviton	1.5 fl oz/a	A	PREHARV	100	74	14.2
	Surfactant (Helm)	0.25 % v/v	A	PREHARV			25.4
	AMS	8.5 lb/100 gal	A	PREHARV			
19	Reviton	2 fl oz/a	A	PREHARV	100	75	14.5
	Surfactant (Helm)	0.25 % v/v	A	PREHARV			24.4
	AMS	8.5 lb/100 gal	A	PREHARV			
LSD P=.05					1.4	10.3	1.08
Standard Deviation					1.0	7.2	0.76
CV					1.03	9.9	5.27