

Defol 5 dry bean desiccation and residue analysis

Trial ID: DB10-25 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: Fall 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

A
Application Timing: PREHARV
Date Treated: Aug-29-2025
Time Treated: 11:15 AM
% Cloud Cover: 25
Air Temp., Unit: 62 F
% Relative Humidity: 70
Wind Speed/Unit/Dir: 6 MPH E
Soil Temp, Unit: 65 F
Leaf Moist/Dew Presence (Y/N): N
Soil Moist: 5

Crop Stage at Each Application

A
Crop 1 Name: PHSVX
Height: 18-20 " (20)
Stage: 70%Y

Weed Stage at Each Application

A
Weed 1 Name:
Height:
Stage:

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	11002	36.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	40 PSI

Comments:

Desiccation treatments were applied at 70% 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.

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Rating Date				Sep-1-2025	Sep-1-2025	Sep-1-2025	Sep-5-2025	Sep-5-2025	Sep-5-2025	Sep-8-2025	Sep-8-2025
Rating Type				leaf	stem	w. plant	leaf	stem	w. plant	leaf	stem
Rating Unit				%	%	%	%	%	%	%	%
Crop Type, Code				C, PHSVX	C, PHSVX	C, PHSVX	C, PHSVX	C, PHSVX	C, PHSVX	C, PHSVX	C, PHSVX
Treatment Appl. Interval				3 DA-A	3 DA-A	3 DA-A	7 DA-A	7 DA-A	7 DA-A	10 DA-A	10 DA-A
Number of Decimals				0	0	0	0	0	0	0	0
Trt	Treatment	Rate	Appl	Appl							
No.	Name	Rate Unit	Code	Timing							
1	Defol 5	2.4 qt/a	A	PREHARV	76	63	66	83	80	84	94
	Hot MES	16 fl oz/a	A	PREHARV							
2	Defol 5	4.8 qt/a	A	PREHARV	81	66	76	89	84	89	96
	Hot MES	16 fl oz/a	A	PREHARV							
3	Defol 5	9.6 qt/a	A	PREHARV	91	71	78	93	89	93	98
	Hot MES	16 fl oz/a	A	PREHARV							
4	Untreated				60	60	60	61	63	63	65
LSD P=.05					4.3	12.2	5.7	4.9	6.2	3.5	2.8
Standard Deviation					2.7	7.6	3.5	3.1	3.9	2.2	1.8
CV					3.46	11.75	5.05	3.78	4.95	2.68	2.02

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Rating Date					Sep-8-2025	Sep-8-2025	Sep-9-2025	Sep-15-2025	Sep-15-2025	Sep-15-2025	Sep-15-2025
Rating Type					pod	w. plant	leaf drop	leaf	stem	pod	w. plant
Rating Unit					%	%	%	%	%	%	%
Crop Type, Code					C, PHSVX	C, PHSVX	C, PHSVX	C, PHSVX	C, PHSVX	C, PHSVX	C, PHSVX
Treatment Appl. Interval					10 DA-A	10 DA-A	11 DA-A	17 DA-A	17 DA-A	17 DA-A	17 DA-A
Number of Decimals					0	0	0	0	0	0	0
Trt	Treatment	Rate	Appl	Appl							
No.	Name	Rate Unit	Code	Timing							
1	Defol 5	2.4 qt/a	A	PREHARV	78	88	44	99	96	98	100
	Hot MES	16 fl oz/a	A	PREHARV							
2	Defol 5	4.8 qt/a	A	PREHARV	79	89	44	100	97	97	100
	Hot MES	16 fl oz/a	A	PREHARV							
3	Defol 5	9.6 qt/a	A	PREHARV	93	96	50	100	99	99	100
	Hot MES	16 fl oz/a	A	PREHARV							
4	Untreated				91	65	59	87	91	92	88
LSD P=.05					7.5	4.4	6.3	2.7	1.9	1.5	1.6
Standard Deviation					4.7	2.7	3.9	1.7	1.2	0.9	1.0
CV					5.55	3.26	8.01	1.76	1.24	0.95	1.06

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Rating Date	Sep-15-2025	Sep-17-2025	Sep-17-2025
Rating Type	leaf drop	moisture	yield
Rating Unit	%	%	cwt/A
Crop Type, Code	C, PHSVX	C, PHSVX	C, PHSVX
Treatment Appl. Interval	17 DA-A	19 DA-A	@18% M
Number of Decimals	0	1	1

Trt	Treatment	Rate	Appl	Appl			
No.	Name	Rate	Unit	Code	Timing		
1	Defol 5	2.4 qt/a	A	PREHARV		95	15.5
	Hot MES	16 fl oz/a	A	PREHARV			22.6
2	Defol 5	4.8 qt/a	A	PREHARV		91	15.1
	Hot MES	16 fl oz/a	A	PREHARV			22.1
3	Defol 5	9.6 qt/a	A	PREHARV		90	14.6
	Hot MES	16 fl oz/a	A	PREHARV			22.6
4	Untreated					88	16.1
							26.3
	LSD P=.05					3.1	1.30
							2.40
	Standard Deviation					2.0	0.81
							1.50
	CV					2.16	5.29
							6.4