

## MSU Weed Science Research Program

## Dry Edible Bean Desiccation Study

Trial ID: DB03-06  
 Conducted: MSU Campus

Study Dir.: Sprague, Powell  
 Investigator: Christy Sprague

<b>Date Planted:</b> 6/13/2006	<b>Row Spacing:</b> 30 IN
<b>Variety:</b> Jaguar	<b>No. of Reps:</b> 3
<b>Population:</b> 116,000 2" spacing	<b>% OM:</b> 2.7
<b>Soil Type:</b> Loam	<b>pH:</b> 7.1
<b>Plot Size:</b> 10 X 35 FT	<b>Design:</b> RANDOMIZED COMPLETE BLOCK

**Tillage:** Spring Chisel  
 Disk 6/12  
 Finish 6/13  
**Fertilizer:** 200 lb/A 19-19-19 w/ planter

## Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
2.	ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
Crop	Code	Common Name	
1.	PHSVX	BEAN, BLACK	

## Application Description

**A**  
**Application Timing:** PreHarv  
**Date Treated:** 8/31/2006  
**Time Treated:** 5:45 PM  
**% Cloud Cover:** 0  
**Air Temp., Unit:** 72 F  
**% Relative Humidity:** 50  
**Wind Speed/Unit/Dir:** 5 mph E  
**Soil Temp., Unit:** 71 F  
**Soil/Leaf Surface M:** 5 5  
**Soil Moist (1=w 5=d):** 3

## Crop Stage at Each Application

**A**  
**Crop Name:** PHSVX  
**Height (In.):** 18-22"  
**Stage (L):** 30% mat

## Weed Stage at Each Application

**A**  
**Weed 1 Name:** CHEAL  
**Height (In.):** 12-24"  
**Stage (L):** many  
**Weed 2 Name:** ABUTH  
**Height (In.):** 12-24"  
**Stage (L):** many

## Weed Density (plants/sq. ft.)

**1**  
**Date:** 8/31/2006  
**Weed Name:** CHEAL  
**Density:** <1  
**Date:** 8/31/2006  
**Weed Name:** ABUTH  
**Density:** <1

## Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom			
Type	MPH	Type	Size	Height	Spacing	Width	GPA	Carrier	PSI	
A	Cub	3.8	AirMix	11003	38"	20"	120"	19	water	27

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Weed Code						CHEAL	ABUTH		CHEAL	ABUTH
Crop Code						PHSVX		PHSVX		
Rating Data Type						dessication	dessication	dessication	dessication	dessication
Rating Unit						percent	percent	percent	percent	percent
Rating Date						9/4/2006	9/4/2006	9/4/2006	9/7/2006	9/7/2006
Trt-Eval Interval						4 DA-A	4 DA-A	4 DA-A	7 DA-A	7 DA-A

Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code	PHSVX 9/4/2006 4 DA-A	CHEAL 9/4/2006 4 DA-A	ABUTH 9/4/2006 4 DA-A	PHSVX 9/7/2006 7 DA-A	CHEAL 9/7/2006 7 DA-A	ABUTH 9/7/2006 7 DA-A
1	Untreated						7	0	0	30	0	0
2	Chateau	51	2	oz/a	PREHAR A		45		44	73		98
2	Crop Oil Concentrate		1	qt/a	PREHAR A							
3	Gramoxone Inteon	2	2	pt/a	PREHAR A		58	70	82	78		85
3	Activator 90 NIS		0.25	% v/v	PREHAR A							
4	Roundup WeatherMax	4.5	11	fl oz/a	PREHAR A		22	0	5	60	10	38
4	Ammonium Sulfate		2.5	lb/a	PREHAR A							
5	Chateau	51	2	oz/a	PREHAR A		33	0	42	78	20	99
5	Roundup WeatherMax	4.5	11	fl oz/a	PREHAR A							
5	Ammonium Sulfate		2.5	lb/a	PREHAR A							
6	Roundup WeatherMax	4.5	22	fl oz/a	PREHAR A		28	10	15	63	20	38
6	Ammonium Sulfate		2.5	lb/a	PREHAR A							
LSD (P=.05)							6.4	32.9	21.1	10.5	0.0	39.7
Standard Deviation							3.5	12.6	11.2	5.7	0.0	19.9
CV							10.93	79.06	35.88	9.0	0.0	33.29

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Weed Code						CHEAL	ABUTH
Crop Code						PHSVX	
Rating Data Type						dessication	dessication
Rating Unit						percent	percent
Rating Date						9/14/2006	9/14/2006
Trt-Eval Interval						14 DA-A	14 DA-A

Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code			
1	Untreated						53	0	0
2	Chateau	51	2	oz/a	PREHAR A		90		99
2	Crop Oil Concentrate		1	qt/a	PREHAR A				
3	Gramoxone Inteon	2	2	pt/a	PREHAR A		92	70	99
3	Activator 90 NIS		0.25	% v/v	PREHAR A				
4	Roundup WeatherMax	4.5	11	fl oz/a	PREHAR A		98	99	99
4	Ammonium Sulfate		2.5	lb/a	PREHAR A				
5	Chateau	51	2	oz/a	PREHAR A		98	80	99
5	Roundup WeatherMax	4.5	11	fl oz/a	PREHAR A				
5	Ammonium Sulfate		2.5	lb/a	PREHAR A				
6	Roundup WeatherMax	4.5	22	fl oz/a	PREHAR A		99	94	99
6	Ammonium Sulfate		2.5	lb/a	PREHAR A				
LSD (P=.05)							4.6	40.1	0.5
Standard Deviation							2.5	15.4	0.2
CV							2.86	22.48	0.3