

MSU Weed Science Research Program

Tolerance of Four Dry Edible Bean Classes to KIH-485

Trial ID: DB03-07
 Conducted: B1-4 Campus

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Date Planted: 6/13/07 **Row Spacing:** 30 IN
Variety: See Comments **No. of Reps:** 4
Population: See Comments **% OM:** 2.3
Soil Type: Sandy Loam **pH:** 7.0
Plot Size: 10 X 30 FT **Design:** RANDOMIZED COMPLETE BLOCK

Tillage: Fall Chisel Plow, Spring Soil Finish x 2, Previous Crop Sugarbeets
Fertilizer: 160# Of 19-19-19 Applied With Planter

Crop Code Common Name
 1. PHSVX BEAN, DRY

Application Description

A
Application Timing: PRE
Date Treated: 6/13/07
Time Treated: 3:00 pm
% Cloud Cover: 10
Air Temp., Unit: 88 F
% Relative Humidity: 54
Wind Speed/Unit/Dir: 4 mph N
Soil Temp., Unit: 78 F
Soil/Leaf Surface M: 5 5
Soil Moist (1=w 5=d): 5

Crop Stage at Each Application

A
Crop Name: PHSVX
Height (In.): -
Stage (L): -

Weed Density (plants/sq. ft.)

	1	2	3	4	5	6
Date:	7/10/07	7/10/07	7/10/07	7/10/07	7/10/07	7/10/07
Weed Name:	CHEAL	ABUTH	ANGR	AMARE	AMBEL	SOLPT
Density:	3	1	18	< 1	< 1	< 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	24"	20"	100" 19 Water 27

Comments: Seed Planting Populations- Black-6.1 Bean/Ft, Small Plate 27/24, Small Red 5.1 Bean/Ft(35/27)
 Pinto-5.1 Bean/Ft(35/27) Medium, Kidney 4.8 Bean/Ft(35/26) Large Plate
 "La Paz" Pinto, "Merlot" Small Red, "Jaguar" Black, "Red Hawk" Dark Red Kidney
 All Seed Treated With Apron Max and Cruiser

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Weed Code														
Crop Code														
Rating Data Type														
Rating Unit														
Rating Date														
Trt-Eval Interval														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	PHSVX injury percent 6/26/07	PHSVX injury percent 7/13/07	PHSVX injury percent 8/13/07	PHSVX moisture percent 10/12/07	PHSVX black bean cwt/acre 10/12/07	PHSVX moisture percent 10/12/07	PHSVX small reds cwt/acre 10/12/07
1	'Jaguar' Black							0	0	0	20.5	16.0		
1	Untreated													
2	'Merlot' Small Red							0	0	0			19.2	13.2
2	Untreated													
3	'LaPaz' Pinto							0	0	0				
3	Untreated													
4	'Red Hawk' Kidney							0	0	0				
4	Untreated													
5	'Jaguar' Black	85	WG	1.67	oz/a	PRE	A	60	55	21	19.3	14.0		
5	KIH-485													
6	'Merlot' Small Red	85	WG	1.67	oz/a	PRE	A	53	44	16			19.6	13.8
6	KIH-485													
7	'LaPaz' Pinto	85	WG	1.67	oz/a	PRE	A	45	39	18				
7	KIH-485													
8	'Red Hawk' Kidney	85	WG	1.67	oz/a	PRE	A	19	21	4				
8	KIH-485													
9	'Red Hawk' Kidney	85	WG	2.1	oz/a	PRE	A	29	43	20				
9	KIH-485													
10	'Merlot' Small Red	85	WG	2.1	oz/a	PRE	A	46	46	20			17.6	14.0
10	KIH-485													
11	'Jaguar' Black	85	WG	2.1	oz/a	PRE	A	75	64	40	19.6	16.5		
11	KIH-485													
12	'LaPaz' Pinto	85	WG	2.1	oz/a	PRE	A	55	41	15				
12	KIH-485													
13	'LaPaz' Pinto	85	WG	4.2	oz/a	PRE	A	69	70	58				
13	KIH-485													
14	'Jaguar' Black	85	WG	4.2	oz/a	PRE	A	89	94	87	12.9	6.9		
14	KIH-485													
15	'Red Hawk' Kidney	85	WG	4.2	oz/a	PRE	A	40	59	49				
15	KIH-485													
16	'Merlot' Small Red	85	WG	4.2	oz/a	PRE	A	73	70	63			20.0	11.7
16	KIH-485													
LSD (P=.05)								22.6	18.6	16.7	6.77	6.92	2.73	7.87
Standard Deviation								15.8	13.0	11.7	4.15	4.24	1.70	4.92
CV								38.88	32.28	45.57	22.98	31.81	8.92	37.33

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Weed Code	PHSVX	PHSVX	PHSVX	PHSVX
Crop Code	moisture	pinto	moisture	kidney's
Rating Data Type	percent	cwt/acre	percent	cwt/acre
Rating Unit	10/12/07	10/12/07	10/12/07	10/12/07
Rating Date	121 DA-A	at 18% M	121 DA-A	at 18% M
Trt-Eval Interval				

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	Appl Code	PHSVX moisture 10/12/07 121 DA-A	PHSVX pinto 10/12/07 at 18% M	PHSVX moisture 10/12/07 121 DA-A	PHSVX kidney's 10/12/07 at 18% M
1	'Jaguar' Black									
1	Untreated									
2	'Merlot' Small Red									
2	Untreated									
3	'LaPaz' Pinto						16.9	18.3		
3	Untreated									
4	'Red Hawk' Kidney								17.0	8.3
4	Untreated									
5	'Jaguar' Black	85	WG	1.67	oz/a	PRE A				
5	KIH-485									
6	'Merlot' Small Red	85	WG	1.67	oz/a	PRE A				
6	KIH-485									
7	'LaPaz' Pinto	85	WG	1.67	oz/a	PRE A	17.2	20.4		
7	KIH-485									
8	'Red Hawk' Kidney	85	WG	1.67	oz/a	PRE A			18.9	8.6
8	KIH-485									
9	'Red Hawk' Kidney	85	WG	2.1	oz/a	PRE A			18.0	8.9
9	KIH-485									
10	'Merlot' Small Red	85	WG	2.1	oz/a	PRE A				
10	KIH-485									
11	'Jaguar' Black	85	WG	2.1	oz/a	PRE A				
11	KIH-485									
12	'LaPaz' Pinto	85	WG	2.1	oz/a	PRE A	17.5	20.8		
12	KIH-485									
13	'LaPaz' Pinto	85	WG	4.2	oz/a	PRE A	17.2	10.1		
13	KIH-485									
14	'Jaguar' Black	85	WG	4.2	oz/a	PRE A				
14	KIH-485									
15	'Red Hawk' Kidney	85	WG	4.2	oz/a	PRE A			18.7	3.9
15	KIH-485									
16	'Merlot' Small Red	85	WG	4.2	oz/a	PRE A				
16	KIH-485									
LSD (P=.05)							1.84	6.12	4.38	4.72
Standard Deviation							1.15	3.83	2.74	2.95
CV							6.69	22.02	15.06	39.8