

Harvest Aids in Dry Edible Beans

Trial ID: DB02-08
 Conducted: T-12 Botany

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Date Planted: 5/29/08
 Variety: Jaguar Black
 Population: 106,000 seeds/Acre
 Soil Type: Loam
 Plot Size: 10 X 35 FT
 Row Spacing: 30 IN
 No. of Reps: 4
 % OM: 3.8
 pH: 6.5
 Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall chisel plow
 Soil finish 5/8/08
 Soil finish x1 on 5/29/08
 Fertilizer: 160#/Acre 19-19-19 with planter

Crop	Code	Common Name
1.	PHSVX	BEAN, DRY

Application Description

	A	B
Application Timing:	A Preharv	B Preha 2
Date Treated:	8/12/08	8/25/08
Time Treated:	2:15 PM	5:00 PM
% Cloud Cover:	60	0
Air Temp., Unit:	85 F	71 F
% Relative Humidity:	34	53
Wind Speed/Unit/Dir:	2 mph w	6 mph SW
Soil Temp., Unit:	74 F	75 F
Soil/Leaf Surface M:	5 5	5 5
Soil Moist (1=w 5=d):	5	5

Crop Stage at Each Application

	A	B
Crop Name:	PHSVX	PHSVX
Height (In.):	24"	24"
Stage (L):	yellow	drop leaf

Weed Density (plants/sq. ft.)

	1	2	3	4
Date:	7/25/08	7/25/08	7/25/08	7/25/08
Weed Name:	CHEAL	ABUTH	ANGR	AMBEL
Density:	0.125	0.125	15.375	0.25

Application Equipment

Appl	Sprayer Type	Speed MPH	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	GPA	Carrier	PSI
A	Cub	3.8	AirMix	11003	38	20	100	19	water	28
B	Cub	3.8	AirMix	11003	38	20	100	19	water	28

Comments: Previous Crop- Fallow

5/29/08 - Applied Dual Magnum (1.33 pt/acre) + Permit (0.66 oz/acre) preemergence to all treatments.

7/10/08 - Applied Flexstar (1pt/acre) + SelectMax (9 oz/acre) + Herbi max C0C (1%) for common ragweed and annual grass control.

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Weed Code
 Crop Code
 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval

PHSVX
 DESICC
 percent
 8/15/08
 3 DA-A
 PHSVX
 DESICC
 percent
 8/18/08
 6 DA-A
 PHSVX
 Leaf Desica
 percent
 8/28/08
 16 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code			
1	Valor	51	WG	1.5	oz/a	PREHARV	A	34	65	99
1	MSO		L	1	qt/a	PREHARV	A			
2	Valor	51	WG	2	oz/a	PREHARV	A	31	68	99
2	MSO		L	1	qt/a	PREHARV	A			
3	Gramoxone Inteon	2	SL	2	pt/a	PREHARV	A	66	74	99
3	Activator 90		L	0.25	% v/v	PREHARV	A			
4	Untreated							0	0	0
5	Aim	2	EW	2	oz/a	PREHARV	A	15	23	74
5	MSO		L	1	qt/a	PREHARV	A			
6	BAS 80004H	2.85	SC	2	fl oz/a	PREHARV	A	48	78	99
6	Crop Oil Concentrate		L	1	% v/v	PREHARV	A			
6	AMS		WG	17	lb/100 gal	PREHARV	A			
7	BAS 80004H	2.85	SC	1	fl oz/a	PREHARV	A	31	69	99
7	Bucanneer	3	SL	1	qt/a	PREHARV	A			
7	Crop Oil Concentrate		L	1	% v/v	PREHARV	A			
7	AMS		WG	17	lb/100 gal	PREHARV	A			
8	Roundup WeatherMax	4.5	SL	22	fl oz/a	PREHARV	A	15	52	97
8	AMS		WG	17	lb/100 gal	PREHARV	A			
9	Valor	51	WG	2	oz/a	PREHARV2	B	15	50	94
9	MSO		L	1	qt/a	PREHARV2	B			
10	Gramoxone Inteon	2	SL	2	pt/a	PREHARV2	B			95
10	Activator 90		L	0.25	% v/v	PREHARV2	B			
11	Roundup WeatherMax	4.5	SL	22	fl oz/a	PREHARV2	B			55
11	AMS		WG	17	lb/100 gal	PREHARV2	B			
LSD (P=.10)								4.4	7.0	5.4
Standard Deviation								3.6	5.7	4.5
CV								12.62	10.79	5.39

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 Rating Unit
 Rating Date
 Trt-Eval Interval

PHSVX
 Stem Desica
 percent
 8/28/08
 16 DA-A
 PHSVX
 Leaf Desica
 percent
 9/2/08
 21 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code		
1	Valor	51	WG	1.5	oz/a	PREHARV	A	89	99
1	MSO		L	1	qt/a	PREHARV	A		
2	Valor	51	WG	2	oz/a	PREHARV	A	88	99
2	MSO		L	1	qt/a	PREHARV	A		
3	Gramoxone Inteon	2	SL	2	pt/a	PREHARV	A	97	99
3	Activator 90		L	0.25	% v/v	PREHARV	A		
4	Untreated							0	94
5	Aim	2	EW	2	oz/a	PREHARV	A	81	96
5	MSO		L	1	qt/a	PREHARV	A		
6	BAS 80004H	2.85	SC	2	fl oz/a	PREHARV	A	94	99
6	Crop Oil Concentrate		L	1	% v/v	PREHARV	A		
6	AMS		WG	17	lb/100 gal	PREHARV	A		
7	BAS 80004H	2.85	SC	1	fl oz/a	PREHARV	A	88	99
7	Bucanneer	3	SL	1	qt/a	PREHARV	A		
7	Crop Oil Concentrate		L	1	% v/v	PREHARV	A		
7	AMS		WG	17	lb/100 gal	PREHARV	A		
8	Roundup WeatherMax	4.5	SL	22	fl oz/a	PREHARV	A	95	99
8	AMS		WG	17	lb/100 gal	PREHARV	A		
9	Valor	51	WG	2	oz/a	PREHARV2	B	92	99
9	MSO		L	1	qt/a	PREHARV2	B		
10	Gramoxone Inteon	2	SL	2	pt/a	PREHARV2	B	89	99
10	Activator 90		L	0.25	% v/v	PREHARV2	B		
11	Roundup WeatherMax	4.5	SL	22	fl oz/a	PREHARV2	B	64	99
11	AMS		WG	17	lb/100 gal	PREHARV2	B		
LSD (P=.10)								6.9	1.0
Standard Deviation								5.7	0.9
CV								7.21	0.89

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 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval

PHSVX
 Stem Desica
 percent
 9/2/08
 21 DA-A

PHSVX
 moisture
 poercent
 9/3/08
 22 DA-A

PHSVX
 yield
 cwt/acre
 9/3/08
 22 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code			
1	Valor	51	WG	1.5	oz/a	PREHARV	A	97	11.3	20.0
1	MSO		L	1	qt/a	PREHARV	A			
2	Valor	51	WG	2	oz/a	PREHARV	A	96	11.2	20.8
2	MSO		L	1	qt/a	PREHARV	A			
3	Gramoxone Inteon	2	SL	2	pt/a	PREHARV	A	99	11.3	17.8
3	Activator 90		L	0.25	% v/v	PREHARV	A			
4	Untreated							84	12.4	23.8
5	Aim	2	EW	2	oz/a	PREHARV	A	93	11.5	20.5
5	MSO		L	1	qt/a	PREHARV	A			
6	BAS 80004H	2.85	SC	2	fl oz/a	PREHARV	A	97	10.3	14.0
6	Crop Oil Concetrates		L	1	% v/v	PREHARV	A			
6	AMS		WG	17	lb/100 gal	PREHARV	A			
7	BAS 80004H	2.85	SC	1	fl oz/a	PREHARV	A	96	11.2	16.6
7	Bucanneer	3	SL	1	qt/a	PREHARV	A			
7	Crop Oil Concetrates		L	1	% v/v	PREHARV	A			
7	AMS		WG	17	lb/100 gal	PREHARV	A			
8	Roundup WeatherMax	4.5	SL	22	fl oz/a	PREHARV	A	99	10.4	22.8
8	AMS		WG	17	lb/100 gal	PREHARV	A			
9	Valor	51	WG	2	oz/a	PREHARV2	B	97	10.8	24.9
9	MSO		L	1	qt/a	PREHARV2	B			
10	Gramoxone Inteon	2	SL	2	pt/a	PREHARV2	B	97	10.6	25.8
10	Activator 90		L	0.25	% v/v	PREHARV2	B			
11	Roundup WeatherMax	4.5	SL	22	fl oz/a	PREHARV2	B	99	10.4	25.1
11	AMS		WG	17	lb/100 gal	PREHARV2	B			
LSD (P=.10)								3.9	1.11	2.04
Standard Deviation								3.3	0.93	1.70
CV								3.44	8.4	8.05