

Purdue University

Preplant burndown efficacy and tolerance with BAS 800

Trial ID: 08S-SEP-NTS-44 Protocol ID: 08S-SEP-NTS-44
 Location: SEPAC Study Director: Melissa Kruger
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact:

General Trial Information

Study Director: Melissa Kruger **Title:** Lab Technician VII
Investigator: Dr. William G. Johnson **Title:** Associate Professor

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4/24/2008 **Planned Completion Date:** 7/2/2008

Trial Location

City: Butleville
State/Prov.: IN
Postal Code: 47223-0216
Country: USA

Objectives:

The objective of the trial is to define efficacy and tolerance of BAS 800H alone and in key combinations applied preplant BURNDOWN to soybean in the Midwest.

Personnel

Study Director: Melissa Kruger **Title:** Lab Technician VII
Affiliation: Purdue University
Address: 915 W. State St.
Location: West Lafayette, IN USA
Postal Code: 47907 **E-mail:** mmkruger@purdue.edu
Phone No.: 765-494-4621
Investigator: Dr. William G. Johnson **Title:** Associate Professor
Affiliation: Purdue University
Address: 915 W. State St.
Location: West Lafayette, IN USA
Postal Code: 47907 **E-mail:** wj@purdue.edu
Phone No.: 765-494-4656

Cooperator/Landowner

Cooperator: Southeastern-Purdue Ag Center **Role:** Cooperator
Organization: Purdue University
Address 1: 4425 E Co. Rd. 350 N
City: Butleville **Phone No.:** 1-812-458-6977
State/Prov: IN **Fax No.:** 1-812-458-6979
Postal Code: 47723-021 **E-mail:** biehled@purdue.edu
Country: USA United States

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: Pioneer 93M95 **Description:** JD 7200; RR
BBCH Scale: BSOY **Planting Date:** 6/2/2008
Planting Method: DIRDRI direct drilled **Rate, Unit:** 150000 S/A
Depth, Unit: 1 IN
Row Spacing, Unit: 30 IN
Soil Moisture: MOIST **Soil Temperature, Unit:** 86 F
Emergence Date: 6/10/2008

Pest Description

Pest 1 Type: W **Code:** ERICA Erigeron canadensis
Common Name: Horseweed

Pest 2 Type: W **Code:** TAROF Taraxacum officinale
Common Name: Common dandelion

Pest 3 Type: W **Code:** ALLVI Allium vineale
Common Name: Wild garlic

Pest 4 Type: W **Code:** CERVU Cerastium vulgatum
Common Name: Mouse-ear chickweed

Pest 5 Type: W **Code:** CAPBP Capsella bursa-pastoris
Common Name: Shepherd's purse

Pest 6 Type: W **Code:** RANAB Ranunculus abortivus
Common Name: Smallflower buttercup

Pest 7 Type: W **Code:** POAAN Poa annua
Common Name: Annual bluegrass

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 30 FT
Plot Area, Unit: 300 FT² **Tillage Type:** NOTILL no-till
Replications: 4 **Study Design:** RACOB� Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

Soil Description

Description Name: SEPAC U4-6
% OM: 1.8 **Texture:** SIL silt loam
pH: 5.6 **Soil Name:** Avonburg
CEC: 6.7 **Fert. Level:** G good

Analyzed By:

A&L Great Lakes Laboratories, Inc. Report #: F07320-0472

Additional Measured Elements

Element	Quantity	Unit
P	7	PPM
K	59	PPM
Mg	140	PPM
Ca	600	PPM

Moisture and Weather Conditions

Closest Weather Station: On research farm **Distance, Unit:** 0.5 MI

Application Description

	A
Application Date:	4/24/2008
Time of Day:	4:00 PM
Application Method:	SPRAY
Application Timing:	PREPLA
Application Placement:	BROFOL
Applied By:	GK MK
Air Temperature, Unit:	78 F
% Relative Humidity:	53
Wind Velocity, Unit:	4 MPH
Wind Direction:	SE
Dew Presence (Y/N):	N no
Soil Temperature, Unit:	69 F
Soil Moisture:	DRY
% Cloud Cover:	95

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	GLXMA BSOY
Stage Scale Used:	BBCH
Stage Majority, Percent:	N/A

Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	ERICA W
Pest 2 Code, Type, Scale:	TAROF W
Stage Majority, Percent:	FLOWER
Stage Minimum, Percent:	ROSETT
Stage Maximum, Percent:	FLOWER
Height, Unit:	15 IN
Height Minimum, Maximum:	5 20
Density, Unit:	7 YD2
Pest 3 Code, Type, Scale:	ALLVI W
Height, Unit:	12 IN
Height Minimum, Maximum:	8 16
Density, Unit:	15 YD2
Pest 4 Code, Type, Scale:	CERVU W
Stage Majority, Percent:	FLOWER
Height, Unit:	8 IN
Height Minimum, Maximum:	6 10
Density, Unit:	15 YD2
Pest 5 Code, Type, Scale:	CAPBP W
Stage Majority, Percent:	FLOWER
Height, Unit:	16 IN
Height Minimum, Maximum:	12 18
Density, Unit:	14 YD2
Pest 6 Code, Type, Scale:	RANAB W
Stage Majority, Percent:	FLOWER
Stage Minimum, Percent:	ROSETT
Stage Maximum, Percent:	FLOWER
Height, Unit:	6 IN
Height Minimum, Maximum:	1 8
Density, Unit:	2 YD2
Pest 7 Code, Type, Scale:	POAAN W
Stage Majority, Percent:	FLOWER
Height, Unit:	2 IN
Height Minimum, Maximum:	2 3
Density, Unit:	7 YD2

Application Equipment

	A
Appl. Equipment:	CO2 Backpack
Operating Pressure, Unit:	17 PSI
Nozzle Type:	Flat Fan
Nozzle Size:	XR11002
Nozzle Spacing, Unit:	15 IN
Nozzles/Row:	6
Boom Length, Unit:	7.5 FT
Boom Height, Unit:	18 IN
Ground Speed, Unit:	3 MPH
Carrier:	H2O
Water Hardness (ppm CaCO3):	150
Spray Volume, Unit:	15 GAL/AC
Mix Size, Unit:	1.8 Liters
Propellant:	CO2
Tank Mix (Y/N):	N no

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Preplant burndown efficacy and tolerance with BAS 800

Trial ID: 08S-SEP-NTS-44 Protocol ID: 08S-SEP-NTS-44
 Location: SEPAC Study Director: Melissa Kruger
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact:

Pest Type	W Weed								
Pest Code	ERICA	TAROF	RANAB	CERVU	SENGL	CAPBP			
Pest Scientific Name	Erigeron canad>	Taraxacum offi>	Ranunculus abo>	Cerastium vulg>	Senecio label>	Capsella bursa>			
Pest Name	Horseweed	Common dandeli>	Smallflower bu>	Mouse-ear chic>	Cressleaf grou>	Shepherd's pur>			
Crop Code	N/A	N/A	N/A	N/A	N/A	N/A			
BBCH Scale									
Crop Scientific Name									
Crop Name									
Crop Variety									
Description									
Part Rated	PLOT P								
Rating Date	5/6/2008	5/6/2008	5/6/2008	5/6/2008	5/6/2008	5/6/2008			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority	N/A	N/A	N/A	N/A	N/A	N/A			
Crop Stage Minimum/Maximum									
Pest Stage Majority	ROSETTE	FLOWER	ROS-FLOW	FLOWER	FLOWER	FLOWER			
Pest Stage Minimum/Maximum	0-5"	4-12"	6-12"	2-6"	6-30"	8-18"			
Pest Density, Unit	30 YD2	1 YD2	11 YD2	6 YD2	3 YD2	3 YD2			
Assessed By	MK AR								
Days After First/Last Applic.	12 12	12 12	12 12	12 12	12 12	12 12			
Trt-Eval Interval	12 DA-A								
Plant-Eval Interval	-27 DP-1								
Days After Emergence	-35 DE								
Trt Treatment	Rate	Appl							
No. Name	Rate	Unit	Code	1	2	3	4	5	6
1 Untreated				0.0 b	0.0 c	0.0 c	0.0 b	0.0 c	0.0 b
2 BAS 800 04H	0.0111	lb ai/a	A	100.0 a	71.3 ab	78.0 ab	84.5 a	91.3 a	90.0 a
Agridex	1	% v/v	A						
Ammonium Sulfate	17	lb/100 gal	A						
3 BAS 800 04H	0.0223	lb ai/a	A	100.0 a	76.3 ab	86.8 ab	76.8 a	97.5 a	96.8 a
Agridex	1	% v/v	A						
Ammonium Sulfate	17	lb/100 gal	A						
4 BAS 800 03H	0.0223	lb ai/a	A	99.8 a	91.8 a	91.8 ab	93.3 a	81.3 b	93.0 a
Agridex	1	% v/v	A						
Ammonium Sulfate	17	lb/100 gal	A						
5 BAS 800 01H	0.0223	lb ai/a	A	100.0 a	75.0 ab	90.0 ab	82.8 a	96.0 a	89.0 a
Agridex	1	% v/v	A						
Ammonium Sulfate	17	lb/100 gal	A						
6 Roundup Original	0.75	lb ae/a	A	97.5 a	56.3 b	73.8 b	85.5 a	100.0 a	92.5 a
Agridex	1	% v/v	A						
Ammonium Sulfate	17	lb/100 gal	A						
7 Roundup Original	0.75	lb ae/a	A	100.0 a	88.5 a	91.8 ab	89.5 a	100.0 a	85.8 a
2,4-D Ester	0.5	lb ai/a	A						
Agridex	1	% v/v	A						
Ammonium Sulfate	17	lb/100 gal	A						
8 BAS 800 04H	0.0223	lb ai/a	A	100.0 a	95.8 a	97.3 a	94.0 a	100.0 a	96.8 a
Roundup Original	0.75	lb ae/a	A						
2,4-D Ester	0.5	lb ai/a	A						
Agridex	1	% v/v	A						
Ammonium Sulfate	17	lb/100 gal	A						

Pest Type	W Weed					
Pest Code	POAAN	ERICA	TAROF	RANAB	CERVU	SENGL
Pest Scientific Name	Poa annua	Erigeron canad>	Taraxacum offi>	Ranunculus abo>	Cerastium vulg>	Senecio glabel>
Pest Name	Annual bluegra>	Horseweed	Common dandeli>	Smallflower bu>	Mouse-ear chic>	Cressleaf grou>
Crop Code	N/A	N/A	N/A	N/A	N/A	N/A
BBCH Scale						
Crop Scientific Name						
Crop Name						
Crop Variety						
Description						
Part Rated	PLOT P					
Rating Date	5/6/2008	5/13/2008	5/13/2008	5/13/2008	5/13/2008	5/13/2008
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority	N/A	N/A	N/A	N/A	N/A	N/A
Crop Stage Minimum/Maximum						
Pest Stage Majority	FLOWER	ROSETTE	FLOWER	ROS-FLOW	FLOWER	FLOWER
Pest Stage Minimum/Maximum	2-8"	0-5"	4-12"	6-12"	2-6"	6-30"
Pest Density, Unit	15 YD2	30 YD2	1 YD2	11 YD2	6 YD2	3 YD2
Assessed By	MK AR	WGJ	WGJ	WGJ	WGJ	WGJ
Days After First/Last Applic.	12 12	19 19	19 19	19 19	19 19	19 19
Trt-Eval Interval	12 DA-A					
Plant-Eval Interval	-27 DP-1	-20 DP-1				
Days After Emergence	-35 DE	-28 DE				
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate
No. Name	Unit	Unit	Unit	Unit	Unit	Unit
	Code	Code	Code	Code	Code	Code
7	8	9	10	11	12	
1 Untreated	0.0 b	0.0 b	0.0 e	0.0 d	0.0 c	0.0 c
2 BAS 800 04H	0.0111 lb ai/a	72.5 a	97.8 a	65.0 d	76.3 c	77.5 ab
Agridex	1 % v/v					
Ammonium Sulfate	17 lb/100 gal					
3 BAS 800 04H	0.0223 lb ai/a	72.5 a	100.0 a	73.3 bcd	90.3 abc	84.5 ab
Agridex	1 % v/v					
Ammonium Sulfate	17 lb/100 gal					
4 BAS 800 03H	0.0223 lb ai/a	89.8 a	98.8 a	78.8 a-d	83.8 abc	87.5 ab
Agridex	1 % v/v					
Ammonium Sulfate	17 lb/100 gal					
5 BAS 800 01H	0.0223 lb ai/a	72.0 a	100.0 a	70.0 cd	85.0 abc	72.5 b
Agridex	1 % v/v					
Ammonium Sulfate	17 lb/100 gal					
6 Roundup Original	0.75 lb ae/a	84.3 a	100.0 a	83.3 a-d	82.0 bc	95.0 ab
Agridex	1 % v/v					
Ammonium Sulfate	17 lb/100 gal					
7 Roundup Original	0.75 lb ae/a	86.8 a	99.3 a	83.8 a-d	94.0 ab	97.5 a
2,4-D Ester	0.5 lb ai/a					
Agridex	1 % v/v					
Ammonium Sulfate	17 lb/100 gal					
8 BAS 800 04H	0.0223 lb ai/a	84.5 a	100.0 a	99.8 a	98.0 a	98.8 a
Roundup Original	0.75 lb ae/a					
2,4-D Ester	0.5 lb ai/a					
Agridex	1 % v/v					
Ammonium Sulfate	17 lb/100 gal					

Pest Type	W Weed	W Weed	W Weed	W Weed		W Weed
Pest Code	CAPBP	POAAN	ERICA	TAROF		ERICA
Pest Scientific Name	Capsella bursa>	Poa annua	Erigeron canad>	Taraxacum offi>		Erigeron canad>
Pest Name	Shepherd's pur>	Annual bluegra>	Horseweed	Common dandel>		Horseweed
Crop Code	N/A	N/A	N/A	N/A	GLXMA	GLXMA
BBCH Scale					BSOY	BSOY
Crop Scientific Name					Glycine max	Glycine max
Crop Name					Soybean	Soybean
Crop Variety					P93M95	P93M95
Description					JD 7200; RR	JD 7200; RR
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT C	PLOT P
Rating Date	5/13/2008	5/13/2008	6/6/2008	6/6/2008	6/18/2008	6/18/2008
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	PHYGEN
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority	N/A	N/A	N/A	N/A		
Crop Stage Minimum/Maximum						
Pest Stage Majority	FLOWER	FLOWER	COTY	COT-FLOW		
Pest Stage Minimum/Maximum	8-18"	2-8"	0-12"	0-12" 15		1-20"
Pest Density, Unit	3 YD2	15 YD2	55 YD2	2 YD2		55 YD2
Assessed By	WGJ	WGJ	PM MK	PM MK	PM	PM
Days After First/Last Applic.	19 19	19 19	43 43	43 43	55 55	55 55
Trt-Eval Interval	12 DA-A	12 DA-A	43 DA-A	43 DA-A	55 DA-A	55 DA-A
Plant-Eval Interval	-20 DP-1	-20 DP-1	4 DP-1	4 DP-1	16 DP-1	16 DP-1
Days After Emergence	-28 DE	-28 DE	-4 DE-	-4 DE-	8 DE-1	8 DE-1
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate
No. Name	Unit	Unit	Unit	Unit	Unit	Unit
	Code	Code	Code	Code	Code	Code
1 Untreated						
2 BAS 800 04H	0.0111 lb ai/a					
Agri-dex	1 % v/v					
Ammonium Sulfate	17 lb/100 gal					
3 BAS 800 04H	0.0223 lb ai/a					
Agri-dex	1 % v/v					
Ammonium Sulfate	17 lb/100 gal					
4 BAS 800 03H	0.0223 lb ai/a					
Agri-dex	1 % v/v					
Ammonium Sulfate	17 lb/100 gal					
5 BAS 800 01H	0.0223 lb ai/a					
Agri-dex	1 % v/v					
Ammonium Sulfate	17 lb/100 gal					
6 Roundup Original	0.75 lb ae/a					
Agri-dex	1 % v/v					
Ammonium Sulfate	17 lb/100 gal					
7 Roundup Original	0.75 lb ae/a					
2,4-D Ester	0.5 lb ai/a					
Agri-dex	1 % v/v					
Ammonium Sulfate	17 lb/100 gal					
8 BAS 800 04H	0.0223 lb ai/a					
Roundup Original	0.75 lb ae/a					
2,4-D Ester	0.5 lb ai/a					
Agri-dex	1 % v/v					
Ammonium Sulfate	17 lb/100 gal					

Pest Type	W Weed		W Weed		W Weed	
Pest Code	TAROF		ERICA		TAROF	
Pest Scientific Name	Taraxacum offi>		Erigeron canad>		Taraxacum offi>	
Pest Name	Common dandel>		Horseweed		Common dandel>	
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max		Glycine max		Glycine max	
Crop Name	Soybean		Soybean		Soybean	
Crop Variety	P93M95		P93M95		P93M95	
Description	JD 7200; RR	JD 7200; RR	JD 7200; RR	JD 7200; RR	JD 7200; RR	JD 7200; RR
Part Rated	PLOT P	PLOT C	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	6/18/2008	7/1/2008	7/1/2008	7/1/2008	7/1/2008	7/1/2008
Rating Type	PHYGEN	PHYGEN	PHYGEN	PHYGEN	PHYGEN	PHYGEN
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority		V3	V3	V3	V3	V3
Crop Stage Minimum/Maximum		6-9"	6-9"	6-9"	6-9"	6-9"
Pest Stage Majority						
Pest Stage Minimum/Maximum	1-12"		1-26"	1-26"	1-18"	1-18"
Pest Density, Unit	12 YD2		55 YD2	55 YD2	60 YD2	60 YD2
Assessed By	PM	VMD	VMD	VMD	VMD	VMD
Days After First/Last Applic.	55 55	68 68	68 68	68 68	68 68	68 68
Trt-Eval Interval	55 DA-A	55 DA-A	55 DA-A	55 DA-A	55 DA-A	55 DA-A
Plant-Eval Interval	16 DP-1	29 DP-1	29 DP-1	29 DP-1	29 DP-1	29 DP-1
Days After Emergence	8 DE-1	21 DE-	21 DE-	21 DE-	21 DE-	21 DE-
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate
No. Name	Unit	Unit	Unit	Unit	Unit	Unit
1 Untreated						
2 BAS 800 04H	0.0111 lb ai/a	A	70.0 a	0.0 a	72.5 ab	52.5 a
Agri-dex	1 % v/v	A				
Ammonium Sulfate	17 lb/100 gal	A				
3 BAS 800 04H	0.0223 lb ai/a	A	72.5 a	0.0 a	83.3 ab	50.0 a
Agri-dex	1 % v/v	A				
Ammonium Sulfate	17 lb/100 gal	A				
4 BAS 800 03H	0.0223 lb ai/a	A	74.5 a	0.0 a	93.0 a	58.8 a
Agri-dex	1 % v/v	A				
Ammonium Sulfate	17 lb/100 gal	A				
5 BAS 800 01H	0.0223 lb ai/a	A	74.5 a	0.0 a	94.0 a	54.5 a
Agri-dex	1 % v/v	A				
Ammonium Sulfate	17 lb/100 gal	A				
6 Roundup Original	0.75 lb ae/a	A	82.0 a	0.0 a	23.8 d	48.8 a
Agri-dex	1 % v/v	A				
Ammonium Sulfate	17 lb/100 gal	A				
7 Roundup Original	0.75 lb ae/a	A	95.0 a	0.0 a	41.3 cd	58.3 a
2,4-D Ester	0.5 lb ai/a	A				
Agri-dex	1 % v/v	A				
Ammonium Sulfate	17 lb/100 gal	A				
8 BAS 800 04H	0.0223 lb ai/a	A	90.8 a	0.0 a	72.0 ab	60.0 a
Roundup Original	0.75 lb ae/a	A				
2,4-D Ester	0.5 lb ai/a	A				
Agri-dex	1 % v/v	A				
Ammonium Sulfate	17 lb/100 gal	A				

Pest Type	W Weed	W Weed	W Weed	W Weed		W Weed			
Pest Code	CAPBP	POAAN	ERICA	TAROF		ERICA			
Pest Scientific Name	Capsella bursa>	Poa annua	Erigeron canad>	Taraxacum offi>		Erigeron canad>			
Pest Name	Shepherd's pur>	Annual bluegra>	Horseweed	Common dandel>		Horseweed			
Crop Code	N/A	N/A	N/A	N/A	GLXMA	GLXMA			
BBCH Scale					BSOY	BSOY			
Crop Scientific Name					Glycine max	Glycine max			
Crop Name					Soybean	Soybean			
Crop Variety					P93M95	P93M95			
Description					JD 7200; RR	JD 7200; RR			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT C	PLOT P			
Rating Date	5/13/2008	5/13/2008	6/6/2008	6/6/2008	6/18/2008	6/18/2008			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	PHYGEN			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority	N/A	N/A	N/A	N/A					
Crop Stage Minimum/Maximum									
Pest Stage Majority	FLOWER	FLOWER	COTY	COT-FLOW					
Pest Stage Minimum/Maximum	8-18"	2-8"	0-12"	0-12" 15		1-20"			
Pest Density, Unit	3 YD2	15 YD2	55 YD2	2 YD2		55 YD2			
Assessed By	WGJ	WGJ	PM MK	PM MK	PM	PM			
Days After First/Last Applic.	19 19	19 19	43 43	43 43	55 55	55 55			
Trt-Eval Interval	12 DA-A	12 DA-A	43 DA-A	43 DA-A	55 DA-A	55 DA-A			
Plant-Eval Interval	-20 DP-1	-20 DP-1	4 DP-1	4 DP-1	16 DP-1	16 DP-1			
Days After Emergence	-28 DE	-28 DE	-4 DE-	-4 DE-	8 DE-1	8 DE-1			
Trt Treatment	Rate	Appl							
No. Name	Rate	Unit	Code	13	14	15	16	17	18
9 BAS 800 04H	0.0111	lb ai/a	A	98.5 a	89.3 a	93.3 a	86.3 a	0.0 a	84.3 a
Roundup Original	0.75	lb ae/a	A						
Agridex	1	% v/v	A						
Ammonium Sulfate	17	lb/100 gal	A						
10 BAS 800 04H	0.0223	lb ai/a	A	99.5 a	92.0 a	99.0 a	91.8 a	0.0 a	94.5 a
Roundup Original	0.75	lb ae/a	A						
Agridex	1	% v/v	A						
Ammonium Sulfate	17	lb/100 gal	A						
11 BAS 800 04H	0.0223	lb ai/a	A	99.5 a	90.3 a	96.0 a	89.5 a	0.0 a	92.3 a
Roundup Original	0.375	lb ae/a	A						
Agridex	1	% v/v	A						
Ammonium Sulfate	17	lb/100 gal	A						
12 BAS 800 04H	0.0223	lb ai/a	A	99.8 a	95.5 a	99.8 a	97.3 a	0.0 a	96.0 a
Pursuit	0.0625	lb ae/a	A						
Roundup Original	0.75	lb ae/a	A						
Agridex	1	% v/v	A						
Ammonium Sulfate	17	lb/100 gal	A						
13 BAS 800 04H	0.0223	lb ai/a	A	99.5 a	95.0 a	97.3 a	94.0 a	1.3 a	96.5 a
Prowl H2O	1.43	lb ai/a	A						
Roundup Original	0.75	lb ae/a	A						
Agridex	1	% v/v	A						
Ammonium Sulfate	17	lb/100 gal	A						
14 Valor	0.064	lb ai/a	A	99.8 a	96.3 a	94.8 a	91.8 a	0.0 a	84.3 a
Roundup Original	0.75	lb ae/a	A						
NIS	0.25	% v/v	A						
Ammonium Sulfate	17	lb/100 gal	A						
15 BAS 804 00H	0.085	lb ai/a	A	99.5 a	90.8 a	99.8 a	90.8 a	0.0 a	94.8 a
Roundup Original	0.75	lb ae/a	A						
Agridex	1	% v/v	A						
Ammonium Sulfate	17	lb/100 gal	A						
LSD (P=.05)				5.37	18.96	15.16	11.35	0.92	20.35
Standard Deviation				3.75	13.27	10.61	7.94	0.65	14.24
CV				4.12	17.15	12.05	9.66	774.6	17.45
Bartlett's X2				74.374	65.367	78.997	19.157	0.0	69.25
P(Bartlett's X2)				0.001*	0.001*	0.001*	0.118	.	0.001*
Replicate F				1.247	3.353	0.581	2.212	1.000	0.741
Replicate Prob(F)				0.3050	0.0277	0.6308	0.1008	0.4023	0.5337
Treatment F				182.204	16.258	24.267	35.937	1.000	13.972
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.4708	0.0001

Pest Type		W Weed		W Weed	W Weed				
Pest Code		TAROF		ERICA	TAROF				
Pest Scientific Name		Taraxacum offi>		Erigeron canad>	Taraxacum offi>				
Pest Name		Common dandeli>		Horseweed	Common dandeli>				
Crop Code		GLXMA	GLXMA	GLXMA	GLXMA				
BBCH Scale		BSOY	BSOY	BSOY	BSOY				
Crop Scientific Name		Glycine max	Glycine max	Glycine max	Glycine max				
Crop Name		Soybean	Soybean	Soybean	Soybean				
Crop Variety		P93M95	P93M95	P93M95	P93M95				
Description		JD 7200; RR	JD 7200; RR	JD 7200; RR	JD 7200; RR				
Part Rated		PLOT P	PLOT C	PLOT P	PLOT P				
Rating Date		6/18/2008	7/1/2008	7/1/2008	7/1/2008				
Rating Type		PHYGEN	PHYGEN	PHYGEN	PHYGEN				
Rating Unit		%	%	%	%				
Number of Subsamples		1	1	1	1				
Crop Stage Majority			V3	V3	V3				
Crop Stage Minimum/Maximum			6-9"	6-9"	6-9"				
Pest Stage Majority									
Pest Stage Minimum/Maximum		1-12"		1-26"	1-18"				
Pest Density, Unit		12 YD2		55 YD2	60 YD2				
Assessed By		PM	VMD	VMD	VMD				
Days After First/Last Applic.		55 55	68 68	68 68	68 68				
Trt-Eval Interval		55 DA-A	55 DA-A	55 DA-A	55 DA-A				
Plant-Eval Interval		16 DP-1	29 DP-1	29 DP-1	29 DP-1				
Days After Emergence		8 DE-1	21 DE-	21 DE-	21 DE-				
Trt No.	Treatment Name	Rate	Unit	Appl Code		19	20	21	22
9	BAS 800 04H	0.0111	lb ai/a	A		80.0 a	0.0 a	72.0 ab	58.8 a
	Roundup Original	0.75	lb ae/a	A					
	Agridex	1	% v/v	A					
	Ammonium Sulfate	17	lb/100 gal	A					
10	BAS 800 04H	0.0223	lb ai/a	A		83.8 a	0.0 a	76.3 ab	58.8 a
	Roundup Original	0.75	lb ae/a	A					
	Agridex	1	% v/v	A					
	Ammonium Sulfate	17	lb/100 gal	A					
11	BAS 800 04H	0.0223	lb ai/a	A		83.5 a	0.0 a	80.0 ab	53.8 a
	Roundup Original	0.375	lb ae/a	A					
	Agridex	1	% v/v	A					
	Ammonium Sulfate	17	lb/100 gal	A					
12	BAS 800 04H	0.0223	lb ai/a	A		86.5 a	0.0 a	85.0 ab	67.5 a
	Pursuit	0.0625	lb ae/a	A					
	Roundup Original	0.75	lb ae/a	A					
	Agridex	1	% v/v	A					
	Ammonium Sulfate	17	lb/100 gal	A					
13	BAS 800 04H	0.0223	lb ai/a	A		89.3 a	0.0 a	80.8 ab	60.0 a
	Prowl H2O	1.43	lb ai/a	A					
	Roundup Original	0.75	lb ae/a	A					
	Agridex	1	% v/v	A					
	Ammonium Sulfate	17	lb/100 gal	A					
14	Valor	0.064	lb ai/a	A		86.0 a	0.0 a	58.8 bc	51.3 a
	Roundup Original	0.75	lb ae/a	A					
	NIS	0.25	% v/v	A					
	Ammonium Sulfate	17	lb/100 gal	A					
15	BAS 804 00H	0.085	lb ai/a	A		81.8 a	0.0 a	75.3 ab	60.0 a
	Roundup Original	0.75	lb ae/a	A					
	Agridex	1	% v/v	A					
	Ammonium Sulfate	17	lb/100 gal	A					
LSD (P=.05)						14.87	0.00	18.67	20.67
Standard Deviation						10.40	0.00	13.07	14.46
CV						13.57	0.0	19.45	27.37
Bartlett's X2						9.162	0.0	18.082	13.585
P(Bartlett's X2)						0.689	.	0.154	0.404
Replicate F						2.629	0.000	0.534	4.151
Replicate Prob(F)						0.0626	1.0000	0.6613	0.0116
Treatment F						18.452	0.000	16.191	4.542
Treatment Prob(F)						0.0001	1.0000	0.0001	0.0001

Means followed by same letter do not significantly differ ($P=.05$, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Purdue University

Preplant burndown efficacy and tolerance with BAS 800

Trial ID: 08S-SEP-NTS-44 Protocol ID: 08S-SEP-NTS-44
 Location: SEPAC Study Director: Melissa Kruger
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

TAROF, Taraxacum officinale, = US
 RANAB, Ranunculus abortivus, = US
 SENGL, Senecio glabellus, = US
 CAPBP, Capsella bursa-pastoris, = US
 POAAN, Poa annua, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

P = Pest is Part Rated

C = Crop is Part Rated

Rating Type

CONTRO = control / burndown or knockdown

PHYGEN = phytotoxicity - general / injury

Rating Unit

% = percent

15 = 5 true leaves, leaf pairs or whorls unfolded

YD2 = per square yard

Plant-Eval Interval

-27 DP-1 = 1 6/2/2008

-20 DP-1 = 1 6/2/2008

4 DP-1 = 1 6/2/2008

16 DP-1 = 1 6/2/2008

29 DP-1 = 1 6/2/2008