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Burndown systems with corn using Prequel for control of marestalk and winter annual grasses.

Trial ID: 10S-SEP-NTC-70 Protocol ID: 10S-SEP-NTC-70
 Location: SEPAC Study Director: Paul Marquardt/Mike White
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact: DuPont - Helen Flanigan

General Trial Information

Study Director: Paul Marquardt/Mike White **Title:** Research Associate
Investigator: Dr. William G. Johnson **Title:** Professor

Discipline: H herbicide
Trial Status: E established
Initiation Date: 3-15-2010

Trial Location

City: Butlerville USA 49.376656 -24.53833
State/Prov.: IN -124.715843 -66.968887
Postal Code: 47223-0216
Country: USA

Personnel

Study Director: Paul Marquardt/Mike White **Title:** Research Associate

Affiliation: Purdue University
Address: 915 W. State St., Botany and Plant Pathology
Location: West Lafayette, IN

Postal Code: 47907 **E-mail:** pmarquar@purdue.edu

Phone No.: 765-494-4621 **Mobile No.:** 765-409-6369

Investigator: Dr. William G. Johnson **Title:** Professor

Affiliation: Purdue University
Address: 915 W. State St.
Location: West Lafayette, IN USA

Postal Code: 47907 **E-mail:** wgj@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

Phone No.: 1-812-458-6977

Fax No.: 1-812-458-6979

City: Butlerville

State/Prov: IN

Postal Code: 477223-021 **E-mail:** biehled@purdue.edu

Country: USA United States

Crop Description

Crop 1: ZEAMX Zea mays Corn

Variety: Dekalb DKC 61-19

Description: Roundup Ready

BBCH Scale: BCOR

Planting Date: 5-10-2010

Planting Method: DIRDRI direct drilled

Depth, Unit: 2.0 IN

Row Spacing, Unit: 30 IN

Spacing Within Row, Unit: 6 IN

Seed Bed: MEDIUM medium

Soil Temperature, Unit: 57 F

Soil Moisture: SLIWET slightly wet

Emergence Date: 5-19-2010

Harvest Date: 9-30-2010

Harvest Equipment: JD 3300 PLOT COMBINE

Harvested Width, Unit: 5 FT

Harvested Length, Unit: 25 FT

% Standard Moisture: 15.5

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Pest Description

- Pest 1 Type:** W **Code:** SENGL *Senecio glabellus*
Common Name: Cressleaf groundsel
- Pest 2 Type:** W **Code:** RANAB *Ranunculus abortivus*
Common Name: Smallflower buttercup
- Pest 3 Type:** W **Code:** TAROF *Taraxacum officinale*
Common Name: Common dandelion
- Pest 4 Type:** W **Code:** BROTE *Bromus tectorum*
Common Name: Downy brome
- Pest 5 Type:** W **Code:** ALLVI *Allium vineale*
Common Name: Wild garlic
- Pest 6 Type:** W **Code:** ERICA *Conyza canadensis*
Common Name: Canada horseweed
- Pest 7 Type:** W **Code:** ALOCA *Alopecurus carolinianus*
Common Name: Carolina foxtail
- Pest 8 Type:** W **Code:** POAAN *Poa annua*
Common Name: Annual bluegrass
- Pest 9 Type:** W **Code:** AMBEL *Ambrosia artemisiifolia*
Common Name: Common ragweed
- Pest10 Type:** W **Code:** ERIPH *Erigeron philadelphicus*
Common Name: Daisy fleabane
- Pest11 Type:** W **Code:** CIRAR *Cirsium arvense*
Common Name: Canada thistle
- Pest12 Type:** W **Code:** SETFA *Setaria faberi*
Common Name: Giant Foxtail
- Pest13 Type:** W **Code:** ECHCG *Echinochloa crus-galli*
Common Name: Common barnyardgrass
- Pest14 Type:** W **Code:** DIGSA *Digitaria sanguinalis*
Common Name: Large crabgrass
- Pest15 Type:** W **Code:** SOLCA *Solanum carolinense*
Common Name: Horsenettle
- Pest16 Type:** W **Code:** IPOSS *Ipomoea sp.*
Common Name: Morning glory

Site and Design

Plot Width, Unit: 10 FT	Site Type: FIELD field
Plot Length, Unit: 30 FT	Experimental Unit: 1 PLOT plot
Plot Area, Unit: 300 FT ²	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 Field U41-6
% OM: 1.3 **Texture:** SIL silt loam
pH: 6.5 **Soil Name:** Avonburg
CEC: 5.7

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Application Description		
	A	B
Application Date:	4-29-2010	6-10-2010
Time of Day:	10:30 AM	9:30 AM
Application Method:	SPRAY	SPRAY
Application Timing:	14 DPP	MIPOWE
Application Placement:	FOLIAR	FOLIAR
Applied By:	RT	RH/RT
Air Temperature, Unit:	65 F	82 F
% Relative Humidity:	49	62
Wind Velocity, Unit:	4 MPH	1 MPH
Wind Direction:	S	NE
Dew Presence (Y/N):	N no	Y yes
Soil Temperature, Unit:	59 F	70 F
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	15	10

Crop Stage At Each Application		
	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V6 90
Stage Minimum, Percent:		V5 10
Stage Maximum, Percent:		V6 90
Height, Unit:		18 IN
Height Minimum, Maximum:		12

Pest Stage At Each Application		
	A	B
Pest 1 Code, Type, Scale:	SENGL W	SENGL W
Stage Majority, Percent:	65 100	
Height, Unit:	20 IN	
Height Minimum, Maximum:	4 36	
Density, Unit:	35 YD2	
Pest 2 Code, Type, Scale:	RANAB W	RANAB W
Stage Majority, Percent:	65 100	
Height, Unit:	8 IN	
Height Minimum, Maximum:	4 12	
Density, Unit:	2.5 YD2	
Pest 3 Code, Type, Scale:	TAROF W	TAROF W
Stage Majority, Percent:	65 100	65 100
Height, Unit:	8 IN	9 IN
Height Minimum, Maximum:	4 12	2 12
Density, Unit:	2.5 YD2	9 YD2
Pest 4 Code, Type, Scale:	BROTE W	BROTE W
Stage Majority, Percent:	25 100	
Height, Unit:	4 IN	
Height Minimum, Maximum:	2 6	

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Density, Unit:	100 YD2	
Pest 5 Code, Type, Scale:	ALLVI W	ALLVI W
Stage Majority, Percent:	12 100	65 100
Height, Unit:	12 IN	18 IN
Height Minimum, Maximum:	4 20	10 36
Density, Unit:	55 YD2	8 YD2
Pest 6 Code, Type, Scale:	ERICA W	ERICA W
Stage Majority, Percent:	30 100	30 100
Height, Unit:	2.5 IN	12 IN
Height Minimum, Maximum:	1 4	2 18
Density, Unit:	1.5 YD2	1.5 YD2
Pest 7 Code, Type, Scale:	ALOCA W	ALOCA W
Stage Majority, Percent:	24 50	
Stage Minimum, Percent:	24 50	
Stage Maximum, Percent:	65 50	
Height, Unit:	5.5 IN	
Height Minimum, Maximum:	3 8	
Density, Unit:	75 YD2	
Pest 8 Code, Type, Scale:	POAAN W	POAAN W
Stage Majority, Percent:	65 100	
Height, Unit:	3.5 IN	
Height Minimum, Maximum:	2 5	
Density, Unit:	10 YD2	
Pest 9 Code, Type, Scale:	AMBEL W	AMBEL W
Stage Majority, Percent:	32 100	33 100
Height, Unit:	1.5 IN	8 IN
Height Minimum, Maximum:	1 2	2 10
Density, Unit:	2.5 YD2	3 YD2
Pest10 Code, Type, Scale:	ERIPH W	ERIPH W
Stage Majority, Percent:	65 100	
Height, Unit:	6 IN	
Height Minimum, Maximum:	4 8	
Density, Unit:	2.5 YD2	
Pest11 Code, Type, Scale:	CIRAR W	CIRAR W
Stage Majority, Percent:	15 100	
Height, Unit:	7 IN	
Height Minimum, Maximum:	2 12	
Density, Unit:	25 YD2	
Pest12 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		30 100
Height, Unit:		3 IN
Height Minimum, Maximum:		2 4
Density, Unit:		35 YD2
Pest13 Code, Type, Scale:	ECHCG W	ECHCG W
Stage Majority, Percent:		30 100
Height, Unit:		6 IN
Height Minimum, Maximum:		2 8
Density, Unit:		18 YD2

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Pest14 Code, Type, Scale:	DIGSA W	DIGSA W
Stage Majority, Percent:		30 100
Height, Unit:		12 IN
Height Minimum, Maximum:		2 18
Density, Unit:		1.5 YD2
Pest15 Code, Type, Scale:	SOLCA W	SOLCA W
Stage Majority, Percent:		32 100
Height, Unit:		6 IN
Height Minimum, Maximum:		4 8
Density, Unit:		3 YD2
Pest16 Code, Type, Scale:	IPOSS W	IPOSS W
Stage Majority, Percent:		30 100
Height, Unit:		12 IN
Height Minimum, Maximum:		2 18
Density, Unit:		1.5 YD2

Application Equipment		
	A	B
Appl. Equipment:	CO2 Backpack	CO2 BKPCK
Equipment Type:	SPRBAC	SPRBAC
Operating Pressure, Unit:	17 PSI	17 PSI
Nozzle Type:	Flat Fan	FLAT FAN
Nozzle Size:	XR11002	XR 110 02
Nozzle Spacing, Unit:	15 IN	15 IN
Nozzles/Row:	8	8
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	H2O	MEIGS
Water Hardness (ppm CaCO3):	150	150
Spray Volume, Unit:	15 GAL/AC	15 gal/ac
Mix Size, Unit:	1.8 Liters	1.8 liters
Propellant:	CO2	CO2
Tank Mix (Y/N):	N no	N no

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SENGL	ALLVI	RANAB	CERVU	ALOCA	POAAN				
Pest Scientific Name	Senecio glabel>	Allium vineale	Ranunculus abo>	Cerastium font>	Alopecurus car>	Poa annua				
Pest Name	Cressleaf grou>	Wild garlic	Smallflower bu>	Mouse-ear chic>	Carolina foxta>	Annual bluegra>				
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX				
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR				
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays				
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn				
Crop Variety	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19				
Description										
Rating Date	5-10-2010	5-10-2010	5-10-2010	5-10-2010	5-27-2010	5-27-2010				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Crop Stage Majority										
Pest Stage Majority	12-30"	12-24"	6-12"	6"	6-15"	4-12"				
Pest Density, Unit	9 YD2	4 YD2	1.5 YD2	1.5 YD2	6 YD2	5 YD2				
Assessed By					RT	RT				
Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6
1	Untreated Check				0.0 b	0.0 b	0.0 b	0.0 b	0.0 b	0.0 c
2	Resolve (25 SG)	0.25 oz ai/a	A		91.0 a	61.3 ab	86.0 a	94.8 a	85.0 a	67.5 ab
	Isoxaflutole (75 SG)	0.5 oz ai/a	A							
	2,4-D Ester	8 oz ai/a	A							
	COC	1 % v/v	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							
3	Resolve (25 SG)	0.25 oz ai/a	A		46.3 a	63.8 ab	81.3 a	70.5 a	77.5 a	47.5 b
	Isoxaflutole (75 SG)	0.5 oz ai/a	A							
	2,4-D Ester	8 oz ai/a	A							
	COC	1 % v/v	A							
	Resolve (25 SG)	0.25 oz ai/a	B							
	Harmony SG (50 SG)	0.05 oz ai/a	B							
	Isoxadifen (50 WG)	0.115 oz ai/a	B							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							
4	Resolve (25 SG)	0.375 oz ai/a	A		83.5 a	69.3 a	95.5 a	98.3 a	100.0 a	87.5 a
	Isoxaflutole (75 SG)	0.75 oz ai/a	A							
	2,4-D Ester	8 oz ai/a	A							
	COC	1 % v/v	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							
5	Resolve (25 SG)	0.25 oz ai/a	A		71.3 a	56.3 ab	90.5 a	98.8 a	100.0 a	99.0 a
	Isoxaflutole (75 SG)	0.5 oz ai/a	A							
	2,4-D Ester	8 oz ai/a	A							
	Abundit (3 SL)	0.75 lb ae/a	A							
	AMS - Liquid	17 lb ai/100 gal	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							

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Pest Code	SENGL	ALLVI	RANAB	CERVU	ALOCA	POAAN				
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Pest Name	Cressleaf grou>	Wild garlic	Smallflower bu>	Mouse-ear chic>	Carolina foxta>	Annual bluegra>				
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX				
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR				
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays				
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn				
Crop Variety	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19				
Description										
Rating Date	5-10-2010	5-10-2010	5-10-2010	5-10-2010	5-27-2010	5-27-2010				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Crop Stage Majority										
Pest Stage Majority	12-30"	12-24"	6-12"	6"	6-15"	4-12"				
Pest Density, Unit	9 YD2	4 YD2	1.5 YD2	1.5 YD2	6 YD2	5 YD2				
Assessed By					RT	RT				
Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6
6	Resolve (25 SG)	0.375 oz ai/a	A		78.3 a	56.3 ab	83.8 a	97.5 a	100.0 a	100.0 a
	Isoxaflutole (75 SG)	0.75 oz ai/a	A							
	2,4-D Ester	8 oz ai/a	A							
	Abundit (3 SL)	0.75 lb ae/a	A							
	AMS - Liquid	17 lb ai/100 gal	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							
7	Resolve (25 SG)	0.25 oz ai/a	A		63.8 a	70.0 a	93.5 a	99.5 a	95.0 a	97.5 a
	Isoxaflutole (75 SG)	0.5 oz ai/a	A							
	2,4-D Ester	8 oz ai/a	A							
	Atrazine	16 oz ai/a	A							
	COC	1 % v/v	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							
8	Resolve (25 SG)	0.375 oz ai/a	A		56.0 a	36.3 ab	93.9 a	87.5 a	97.0 a	93.0 a
	Isoxaflutole (75 SG)	0.75 oz ai/a	A							
	2,4-D Ester	8 oz ai/a	A							
	Atrazine	16 oz ai/a	A							
	COC	1 % v/v	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							
9	Resolve (25 SG)	0.25 oz ai/a	A		73.8 a	60.0 ab	96.8 a	98.0 a	100.0 a	100.0 a
	Isoxaflutole (75 SG)	0.5 oz ai/a	A							
	Atrazine	16 oz ai/a	A							
	Abundit (3 SL)	0.75 lb ae/a	A							
	2,4-D Ester	8 oz ai/a	A							
	AMS - Liquid	17 lb ai/100 gal	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							
10	Resolve (25 SG)	0.375 oz ai/a	A		51.3 a	46.3 ab	89.3 a	96.0 a	100.0 a	100.0 a
	Isoxaflutole (75 SG)	0.75 oz ai/a	A							
	Atrazine	16 oz ai/a	A							
	Abundit (3 SL)	0.75 lb ae/a	A							
	2,4-D Ester	8 oz ai/a	A							
	AMS - Liquid	17 lb ai/100 gal	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SENGL	ALLVI	RANAB	CERVU	ALOCA	POAAN				
Pest Scientific Name	Senecio glabel>	Allium vineale	Ranunculus abo>	Cerastium font>	Alopecurus car>	Poa annua				
Pest Name	Cressleaf grou>	Wild garlic	Smallflower bu>	Mouse-ear chic>	Carolina foxta>	Annual bluegra>				
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX				
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR				
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays				
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn				
Crop Variety	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19				
Description										
Rating Date	5-10-2010	5-10-2010	5-10-2010	5-10-2010	5-27-2010	5-27-2010				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Crop Stage Majority										
Pest Stage Majority	12-30"	12-24"	6-12"	6"	6-15"	4-12"				
Pest Density, Unit	9 YD2	4 YD2	1.5 YD2	1.5 YD2	6 YD2	5 YD2				
Assessed By					RT	RT				
Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6
11	Resolve (25 SG)	0.25 oz ai/a	A		68.8 a	64.3 ab	96.3 a	100.0 a	89.5 a	84.5 a
	Isoxaflutole (75 SG)	0.5 oz ai/a	A							
	Cinch ATZ (5.5 SC)	1.38 lb ai/a	A							
	2,4-D Ester	8 oz ai/a	A							
	COC	1 % v/v	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							
12	Resolve (25 SG)	0.375 oz ai/a	A		88.0 a	72.5 a	96.0 a	98.5 a	80.0 a	87.5 a
	Isoxaflutole (75 SG)	0.75 oz ai/a	A							
	Cinch ATZ (5.5 SC)	1.38 lb ai/a	A							
	2,4-D Ester	8 oz ai/a	A							
	COC	1 % v/v	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							
13	Resolve (25 SG)	0.25 oz ai/a	A		60.0 a	62.5 ab	86.3 a	85.5 a	100.0 a	100.0 a
	Isoxaflutole (75 SG)	0.5 oz ai/a	A							
	Cinch ATZ (5.5 SC)	1.38 lb ai/a	A							
	Abundit (3 SL)	0.75 lb ae/a	A							
	2,4-D Ester	8 oz ai/a	A							
	AMS - Liquid	17 lb ai/100 gal	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							
14	Resolve (25 SG)	0.375 oz ai/a	A		78.8 a	72.5 a	96.0 a	96.0 a	100.0 a	97.0 a
	Isoxaflutole (75 SG)	0.75 oz ai/a	A							
	Cinch ATZ (5.5 SC)	1.38 lb ai/a	A							
	Abundit (3 SL)	0.75 lb ae/a	A							
	2,4-D Ester	8 oz ai/a	A							
	AMS - Liquid	17 lb ai/100 gal	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							
15	Resolve (25 SG)	0.25 oz ai/a	A		99.0 a	94.3 a	99.3 a	96.3 a	100.0 a	95.0 a
	Isoxaflutole (75 SG)	0.5 oz ai/a	A							
	Sharpen 2.85 SC	0.0223 lb ai/a	A							
	COC	1 % v/v	A							
	AMS - Liquid	17 lb ai/100 gal	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							

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Pest Name	Cressleaf grou>	Wild garlic	Smallflower bu>	Mouse-ear chic>	Carolina foxta>	Annual bluegra>				
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX				
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR				
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays				
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn				
Crop Variety	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19				
Description										
Rating Date	5-10-2010	5-10-2010	5-10-2010	5-10-2010	5-27-2010	5-27-2010				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Crop Stage Majority										
Pest Stage Majority	12-30"	12-24"	6-12"	6"	6-15"	4-12"				
Pest Density, Unit	9 YD2	4 YD2	1.5 YD2	1.5 YD2	6 YD2 RT	5 YD2 RT				
Assessed By										
Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6
16	Resolve (25 SG)	0.375 oz ai/a	A		96.5 a	89.0 a	93.8 a	90.0 a	99.5 a	92.5 a
	Isoxaflutole (75 SG)	0.75 oz ai/a	A							
	Sharpen 2.85 SC	0.0223 lb ai/a	A							
	COC	1 % v/v	A							
	AMS - Liquid	17 lb ai/100 gal	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							
17	Abundit (3 SL)	0.75 lb ae/a	A		82.0 a	85.0 a	94.5 a	75.5 a	99.8 a	95.0 a
	2,4-D Ester	8 oz ai/a	A							
	AMS - Liquid	17 lb ai/100 gal	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							
LSD (P=.05)					34.77	39.73	17.54	21.21	19.85	22.20
Standard Deviation					24.33	27.80	12.27	14.84	13.89	15.53
CV					34.81	44.62	14.17	17.02	15.5	18.29
Bartlett's X2					33.713	21.163	43.415	85.687	45.431	35.06
P(Bartlett's X2)					0.004*	0.132	0.001*	0.001*	0.001*	0.001*
Replicate F					1.689	0.521	1.532	0.601	2.160	1.468
Replicate Prob(F)					0.1818	0.6698	0.2185	0.6178	0.1049	0.2351
Treatment F					3.779	2.416	13.919	10.489	12.232	11.055
Treatment Prob(F)					0.0002	0.0095	0.0001	0.0001	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.

Column 1: Weed or volunteer crop; US; US; DKC 61-19; control / burndown or knockdown; percent; 12-30"; per square yard
Column 2: Weed or volunteer crop; US; US; DKC 61-19; control / burndown or knockdown; percent; 12-24"; per square yard
Column 3: Weed or volunteer crop; US; US; DKC 61-19; control / burndown or knockdown; percent; 6-12"; per square yard
Column 4: Weed or volunteer crop; US; US; DKC 61-19; control / burndown or knockdown; percent; 6"; per square yard
Column 5: Weed or volunteer crop; US; US; DKC 61-19; control / burndown or knockdown; percent; 6-15"; per square yard; RT
Column 6: Weed or volunteer crop; US; US; DKC 61-19; control / burndown or knockdown; percent; 4-12"; per square yard; RT
Column 7: Weed or volunteer crop; US; US; DKC 61-19; control / burndown or knockdown; percent; 3-12"; per square yard; RT
Column 8: Weed or volunteer crop; US; US; DKC 61-19; control / burndown or knockdown; percent; 12-36"; per square yard; RT
Column 9: Weed or volunteer crop; US; US; DKC 61-19; control / burndown or knockdown; percent; 4-12"; per square yard; RT
Column 10: US; DKC 61-19; phytotoxicity - general / injury; percent; RT/JR
Column 11: Weed or volunteer crop; US; US; DKC 61-19; control / burndown or knockdown; percent; 4-12"; per square yard; RT/JR
Column 12: Weed or volunteer crop; US; US; DKC 61-19; control / burndown or knockdown; percent; 1-6"; per square yard; RT/JR
Column 13: Weed or volunteer crop; US; US; DKC 61-19; control / burndown or knockdown; percent; 4-12"; per square yard; RT/JR
Column 14: Weed or volunteer crop; US; US; DKC 61-19; control / burndown or knockdown; percent; V9; 4-24"; per square yard; RT
Column 15: Weed or volunteer crop; US; US; DKC 61-19; control / burndown or knockdown; percent; V9; 6-36"; per square yard; RT
Column 16: Weed or volunteer crop; US; US; DKC 61-19; control / burndown or knockdown; percent; V9; 6-24"; per square yard; RT
Column 17: Weed or volunteer crop; US; US; DKC 61-19; control / burndown or knockdown; percent; V9; 10-36"; per square yard; RT
Column 18: US; DKC 61-19; MOISTURE; percent
Column 19: US; DKC 61-19; yield; pound
Column 20: US; DKC 61-19; yield; bushel

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Trt No.	Treatment Name	Rate	Unit	Appl Code	7	8	9	10	11	12
1	Untreated Check				0.0 b	0.0 b	0.0 b	0.0 a	0.0 b	0.0 b
2	Resolve (25 SG)	0.25 oz ai/a		A	100.0 a	98.0 a	100.0 a	0.0 a	97.5 a	100.0 a
	Isoxaflutole (75 SG)	0.5 oz ai/a		A						
	2,4-D Ester	8 oz ai/a		A						
	COC	1 % v/v		A						
	Abundit (3 SL)	0.75 lb ae/a		B						
	AMS - Liquid	17 lb ai/100 gal		B						
3	Resolve (25 SG)	0.25 oz ai/a		A	100.0 a	85.5 a	99.5 a	0.0 a	93.3 a	100.0 a
	Isoxaflutole (75 SG)	0.5 oz ai/a		A						
	2,4-D Ester	8 oz ai/a		A						
	COC	1 % v/v		A						
	Resolve (25 SG)	0.25 oz ai/a		B						
	Harmony SG (50 SG)	0.05 oz ai/a		B						
	Isoxadifen (50 WG)	0.115 oz ai/a		B						
	Abundit (3 SL)	0.75 lb ae/a		B						
	AMS - Liquid	17 lb ai/100 gal		B						
4	Resolve (25 SG)	0.375 oz ai/a		A	100.0 a	98.8 a	97.5 a	0.0 a	96.0 a	95.0 a
	Isoxaflutole (75 SG)	0.75 oz ai/a		A						
	2,4-D Ester	8 oz ai/a		A						
	COC	1 % v/v		A						
	Abundit (3 SL)	0.75 lb ae/a		B						
	AMS - Liquid	17 lb ai/100 gal		B						
5	Resolve (25 SG)	0.25 oz ai/a		A	100.0 a	97.3 a	95.5 a	0.0 a	90.0 a	100.0 a
	Isoxaflutole (75 SG)	0.5 oz ai/a		A						
	2,4-D Ester	8 oz ai/a		A						
	Abundit (3 SL)	0.75 lb ae/a		A						
	AMS - Liquid	17 lb ai/100 gal		A						
	Abundit (3 SL)	0.75 lb ae/a		B						
	AMS - Liquid	17 lb ai/100 gal		B						

Purdue University

Pest Type	W Weed	W Weed	W Weed		W Weed	W Weed			
Pest Code	ERICA	SENGL	TAROF		TAROF	ERICA			
Pest Scientific Name	Conyza canadens>	Senecio glabel>	Taraxacum offi>		Taraxacum offi>	Conyza canadens>			
Pest Name	Canada horsewe>	Cressleaf grou>	Common dandel>		Common dandel>	Canada horsewe>			
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn			
Crop Variety	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19			
Description									
Rating Date	5-27-2010	5-27-2010	5-27-2010	6-3-2010	6-3-2010	6-3-2010			
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority									
Pest Stage Majority	3-12"	12-36"	4-12"		4-12"	1-6"			
Pest Density, Unit	3 YD2	6 YD2	6 YD2		6 YD2	1.5 YD2			
Assessed By	RT	RT	RT	RT/JR	RT/JR	RT/JR			
Trt No.	Treatment Name	Rate	Appl Code	7	8	9	10	11	12
		Rate Unit							
6	Resolve (25 SG)	0.375 oz ai/a	A	100.0 a	98.8 a	99.8 a	0.5 a	93.8 a	100.0 a
	Isoxaflutole (75 SG)	0.75 oz ai/a	A						
	2,4-D Ester	8 oz ai/a	A						
	Abundit (3 SL)	0.75 lb ae/a	A						
	AMS - Liquid	17 lb ai/100 gal	A						
	Abundit (3 SL)	0.75 lb ae/a	B						
	AMS - Liquid	17 lb ai/100 gal	B						
7	Resolve (25 SG)	0.25 oz ai/a	A	100.0 a	82.5 a	91.3 a	0.0 a	91.3 a	95.0 a
	Isoxaflutole (75 SG)	0.5 oz ai/a	A						
	2,4-D Ester	8 oz ai/a	A						
	Atrazine	16 oz ai/a	A						
	COC	1 % v/v	A						
	Abundit (3 SL)	0.75 lb ae/a	B						
	AMS - Liquid	17 lb ai/100 gal	B						
8	Resolve (25 SG)	0.375 oz ai/a	A	100.0 a	95.3 a	100.0 a	0.0 a	93.8 a	100.0 a
	Isoxaflutole (75 SG)	0.75 oz ai/a	A						
	2,4-D Ester	8 oz ai/a	A						
	Atrazine	16 oz ai/a	A						
	COC	1 % v/v	A						
	Abundit (3 SL)	0.75 lb ae/a	B						
	AMS - Liquid	17 lb ai/100 gal	B						
9	Resolve (25 SG)	0.25 oz ai/a	A	100.0 a	98.3 a	100.0 a	0.0 a	95.5 a	100.0 a
	Isoxaflutole (75 SG)	0.5 oz ai/a	A						
	Atrazine	16 oz ai/a	A						
	Abundit (3 SL)	0.75 lb ae/a	A						
	2,4-D Ester	8 oz ai/a	A						
	AMS - Liquid	17 lb ai/100 gal	A						
	Abundit (3 SL)	0.75 lb ae/a	B						
	AMS - Liquid	17 lb ai/100 gal	B						
10	Resolve (25 SG)	0.375 oz ai/a	A	98.8 a	79.5 a	85.0 a	0.0 a	87.5 a	100.0 a
	Isoxaflutole (75 SG)	0.75 oz ai/a	A						
	Atrazine	16 oz ai/a	A						
	Abundit (3 SL)	0.75 lb ae/a	A						
	2,4-D Ester	8 oz ai/a	A						
	AMS - Liquid	17 lb ai/100 gal	A						
	Abundit (3 SL)	0.75 lb ae/a	B						
	AMS - Liquid	17 lb ai/100 gal	B						

Purdue University

Pest Type	W Weed	W Weed	W Weed		W Weed	W Weed				
Pest Code	ERICA	SENGL	TAROF		TAROF	ERICA				
Pest Scientific Name	Conyza canadens>	Senecio glabel>	Taraxacum offi>		Taraxacum offi>	Conyza canadens>				
Pest Name	Canada horsewe>	Cressleaf grou>	Common dandel>		Common dandel>	Canada horsewe>				
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX				
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR				
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays				
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn				
Crop Variety	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19				
Description										
Rating Date	5-27-2010	5-27-2010	5-27-2010	6-3-2010	6-3-2010	6-3-2010				
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Crop Stage Majority										
Pest Stage Majority	3-12"	12-36"	4-12"		4-12"	1-6"				
Pest Density, Unit	3 YD2	6 YD2	6 YD2		6 YD2	1.5 YD2				
Assessed By	RT	RT	RT	RT/JR	RT/JR	RT/JR				
Trt No.	Treatment Name	Rate	Unit	Appl Code	7	8	9	10	11	12
11	Resolve (25 SG)	0.25 oz ai/a	A		100.0 a	92.5 a	97.8 a	0.0 a	97.0 a	100.0 a
	Isoxaflutole (75 SG)	0.5 oz ai/a	A							
	Cinch ATZ (5.5 SC)	1.38 lb ai/a	A							
	2,4-D Ester	8 oz ai/a	A							
	COC	1 % v/v	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							
12	Resolve (25 SG)	0.375 oz ai/a	A		100.0 a	97.8 a	100.0 a	0.5 a	96.3 a	90.0 a
	Isoxaflutole (75 SG)	0.75 oz ai/a	A							
	Cinch ATZ (5.5 SC)	1.38 lb ai/a	A							
	2,4-D Ester	8 oz ai/a	A							
	COC	1 % v/v	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							
13	Resolve (25 SG)	0.25 oz ai/a	A		90.0 a	95.8 a	98.0 a	0.0 a	88.0 a	95.0 a
	Isoxaflutole (75 SG)	0.5 oz ai/a	A							
	Cinch ATZ (5.5 SC)	1.38 lb ai/a	A							
	Abundit (3 SL)	0.75 lb ae/a	A							
	2,4-D Ester	8 oz ai/a	A							
	AMS - Liquid	17 lb ai/100 gal	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							
14	Resolve (25 SG)	0.375 oz ai/a	A		100.0 a	95.5 a	98.8 a	0.0 a	91.3 a	92.0 a
	Isoxaflutole (75 SG)	0.75 oz ai/a	A							
	Cinch ATZ (5.5 SC)	1.38 lb ai/a	A							
	Abundit (3 SL)	0.75 lb ae/a	A							
	2,4-D Ester	8 oz ai/a	A							
	AMS - Liquid	17 lb ai/100 gal	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							
15	Resolve (25 SG)	0.25 oz ai/a	A		100.0 a	97.5 a	92.5 a	0.0 a	77.0 a	100.0 a
	Isoxaflutole (75 SG)	0.5 oz ai/a	A							
	Sharpen 2.85 SC	0.0223 lb ai/a	A							
	COC	1 % v/v	A							
	AMS - Liquid	17 lb ai/100 gal	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							

Purdue University

Pest Type	W Weed	W Weed	W Weed		W Weed	W Weed			
Pest Code	ERICA	SENGL	TAROF		TAROF	ERICA			
Pest Scientific Name	Conyza canadens>	Senecio glabel>	Taraxacum offi>		Taraxacum offi>	Conyza canadens>			
Pest Name	Canada horsewe>	Cressleaf grou>	Common dandel>		Common dandel>	Canada horsewe>			
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn			
Crop Variety	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19			
Description									
Rating Date	5-27-2010	5-27-2010	5-27-2010	6-3-2010	6-3-2010	6-3-2010			
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority									
Pest Stage Majority	3-12"	12-36"	4-12"		4-12"	1-6"			
Pest Density, Unit	3 YD2	6 YD2	6 YD2		6 YD2	1.5 YD2			
Assessed By	RT	RT	RT	RT/JR	RT/JR	RT/JR			
Trt No.	Treatment Name	Rate	Appl Code	7	8	9	10	11	12
		Unit							
16	Resolve (25 SG)	0.375 oz ai/a	A	100.0 a	99.3 a	96.3 a	0.0 a	92.8 a	97.5 a
	Isoxaflutole (75 SG)	0.75 oz ai/a	A						
	Sharpen 2.85 SC	0.0223 lb ai/a	A						
	COC	1 % v/v	A						
	AMS - Liquid	17 lb ai/100 gal	A						
	Abundit (3 SL)	0.75 lb ae/a	B						
	AMS - Liquid	17 lb ai/100 gal	B						
17	Abundit (3 SL)	0.75 lb ae/a	A	82.5 a	94.5 a	72.5 a	0.0 a	87.5 a	80.5 a
	2,4-D Ester	8 oz ai/a	A						
	AMS - Liquid	17 lb ai/100 gal	A						
	Abundit (3 SL)	0.75 lb ae/a	B						
	AMS - Liquid	17 lb ai/100 gal	B						
LSD (P=.05)				14.15	18.64	15.94	0.47	16.13	14.32
Standard Deviation				9.90	13.04	11.16	0.33	11.28	10.02
CV				10.71	14.72	12.44	564.58	13.07	11.03
Bartlett's X2				11.679	92.821	65.488	0.0	35.954	11.033
P(Bartlett's X2)				0.003*	0.001*	0.001*	.	0.002*	0.087
Replicate F				0.644	1.019	1.104	2.133	0.933	0.154
Replicate Prob(F)				0.5906	0.3926	0.3567	0.1083	0.4318	0.9267
Treatment F				24.061	13.094	18.777	1.000	16.336	22.937
Treatment Prob(F)				0.0001	0.0001	0.0001	0.4727	0.0001	0.0001

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Trt	Treatment	Rate	Appl	13	14	15	16	17	18
No.	Name	Rate	Unit Code						
1	Untreated Check			0.0 b	0.0 b	0.0 b	0.0 b	0.0 b	15.2321716 a
2	Resolve (25 SG)	0.25 oz ai/a	A	100.0 a	100.0 a	99.5 a	93.5 a	93.5 a	15.6900011 a
	Isoxafutole (75 SG)	0.5 oz ai/a	A						
	2,4-D Ester	8 oz ai/a	A						
	COC	1 % v/v	A						
	Abundit (3 SL)	0.75 lb ae/a	B						
	AMS - Liquid	17 lb ai/100 gal	B						
3	Resolve (25 SG)	0.25 oz ai/a	A	97.5 a	100.0 a	90.0 a	98.5 a	98.0 a	15.2550016 a
	Isoxafutole (75 SG)	0.5 oz ai/a	A						
	2,4-D Ester	8 oz ai/a	A						
	COC	1 % v/v	A						
	Resolve (25 SG)	0.25 oz ai/a	B						
	Harmony SG (50 SG)	0.05 oz ai/a	B						
	Isoxadifen (50 WG)	0.115 oz ai/a	B						
	Abundit (3 SL)	0.75 lb ae/a	B						
	AMS - Liquid	17 lb ai/100 gal	B						
4	Resolve (25 SG)	0.375 oz ai/a	A	98.0 a	96.3 a	100.0 a	95.5 a	90.3 a	14.9900013 a
	Isoxafutole (75 SG)	0.75 oz ai/a	A						
	2,4-D Ester	8 oz ai/a	A						
	COC	1 % v/v	A						
	Abundit (3 SL)	0.75 lb ae/a	B						
	AMS - Liquid	17 lb ai/100 gal	B						
5	Resolve (25 SG)	0.25 oz ai/a	A	95.8 a	100.0 a	97.0 a	95.8 a	94.5 a	15.1550012 a
	Isoxafutole (75 SG)	0.5 oz ai/a	A						
	2,4-D Ester	8 oz ai/a	A						
	Abundit (3 SL)	0.75 lb ae/a	A						
	AMS - Liquid	17 lb ai/100 gal	A						
	Abundit (3 SL)	0.75 lb ae/a	B						
	AMS - Liquid	17 lb ai/100 gal	B						

Purdue University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	AMBEL	ERICA	AMBEL	XANST	ECHCG					
Pest Scientific Name	Ambrosia artem>	Conyza canaden>	Ambrosia artem>	Xanthium strum>	Echinochloa cr>					
Pest Name	Common ragweed	Canada horsewe>	Common ragweed	Common cockleb>	Common barnyar>					
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX				
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR				
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays				
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn				
Crop Variety	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19				
Description										
Rating Date	6-3-2010	6-29-2010	6-29-2010	6-29-2010	6-29-2010					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	MOISTURE				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Crop Stage Majority		V9	V9	V9	V9					
Pest Stage Majority	4-12"	4-24"	6-36"	6-24"	10-36"					
Pest Density, Unit	8 YD2	2 YD2	8 YD2	4.5 YD2	40 YD2					
Assessed By	RT/JR	RT	RT	RT	RT					
Trt No.	Treatment Name	Rate	Unit	Appl Code	13	14	15	16	17	18
6	Resolve (25 SG)	0.375 oz ai/a	A		98.8 a	100.0 a	97.8 a	96.0 a	93.5 a	14.8250013 a
	Isoxaflutole (75 SG)	0.75 oz ai/a	A							
	2,4-D Ester	8 oz ai/a	A							
	Abundit (3 SL)	0.75 lb ae/a	A							
	AMS - Liquid	17 lb ai/100 gal	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							
7	Resolve (25 SG)	0.25 oz ai/a	A		100.0 a	97.0 a	99.0 a	97.5 a	91.0 a	15.3840614 a
	Isoxaflutole (75 SG)	0.5 oz ai/a	A							
	2,4-D Ester	8 oz ai/a	A							
	Atrazine	16 oz ai/a	A							
	COC	1 % v/v	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							
8	Resolve (25 SG)	0.375 oz ai/a	A		100.0 a	100.0 a	99.5 a	92.5 a	90.5 a	15.2055469 a
	Isoxaflutole (75 SG)	0.75 oz ai/a	A							
	2,4-D Ester	8 oz ai/a	A							
	Atrazine	16 oz ai/a	A							
	COC	1 % v/v	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							
9	Resolve (25 SG)	0.25 oz ai/a	A		97.5 a	100.0 a	99.5 a	92.3 a	87.8 a	15.0525013 a
	Isoxaflutole (75 SG)	0.5 oz ai/a	A							
	Atrazine	16 oz ai/a	A							
	Abundit (3 SL)	0.75 lb ae/a	A							
	2,4-D Ester	8 oz ai/a	A							
	AMS - Liquid	17 lb ai/100 gal	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							
10	Resolve (25 SG)	0.375 oz ai/a	A		100.0 a	100.0 a	100.0 a	90.8 a	95.0 a	15.0925012 a
	Isoxaflutole (75 SG)	0.75 oz ai/a	A							
	Atrazine	16 oz ai/a	A							
	Abundit (3 SL)	0.75 lb ae/a	A							
	2,4-D Ester	8 oz ai/a	A							
	AMS - Liquid	17 lb ai/100 gal	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							

Purdue University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	AMBEL	ERICA	AMBEL	XANST	ECHCG					
Pest Scientific Name	Ambrosia artem>	Conyza canaden>	Ambrosia artem>	Xanthium strum>	Echinochloa cr>					
Pest Name	Common ragweed	Canada horsewe>	Common ragweed	Common cockleb>	Common barnyar>					
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX				
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR				
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays				
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn				
Crop Variety	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19	DKC 61-19				
Description										
Rating Date	6-3-2010	6-29-2010	6-29-2010	6-29-2010	6-29-2010					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	MOISTURE				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Crop Stage Majority		V9	V9	V9	V9					
Pest Stage Majority	4-12"	4-24"	6-36"	6-24"	10-36"					
Pest Density, Unit	8 YD2	2 YD2	8 YD2	4.5 YD2	40 YD2					
Assessed By	RT/JR	RT	RT	RT	RT					
Trt No.	Treatment Name	Rate	Unit	Appl Code	13	14	15	16	17	18
11	Resolve (25 SG)	0.25 oz ai/a	A		100.0 a	100.0 a	99.0 a	91.0 a	95.0 a	15.3173777 a
	Isoxaflutole (75 SG)	0.5 oz ai/a	A							
	Cinch ATZ (5.5 SC)	1.38 lb ai/a	A							
	2,4-D Ester	8 oz ai/a	A							
	COC	1 % v/v	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							
12	Resolve (25 SG)	0.375 oz ai/a	A		98.8 a	92.5 a	100.0 a	96.0 a	85.3 a	15.1175018 a
	Isoxaflutole (75 SG)	0.75 oz ai/a	A							
	Cinch ATZ (5.5 SC)	1.38 lb ai/a	A							
	2,4-D Ester	8 oz ai/a	A							
	COC	1 % v/v	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							
13	Resolve (25 SG)	0.25 oz ai/a	A		99.5 a	95.0 a	100.0 a	94.8 a	94.5 a	14.9450012 a
	Isoxaflutole (75 SG)	0.5 oz ai/a	A							
	Cinch ATZ (5.5 SC)	1.38 lb ai/a	A							
	Abundit (3 SL)	0.75 lb ae/a	A							
	2,4-D Ester	8 oz ai/a	A							
	AMS - Liquid	17 lb ai/100 gal	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							
14	Resolve (25 SG)	0.375 oz ai/a	A		99.5 a	90.0 a	96.5 a	93.8 a	88.3 a	15.1725012 a
	Isoxaflutole (75 SG)	0.75 oz ai/a	A							
	Cinch ATZ (5.5 SC)	1.38 lb ai/a	A							
	Abundit (3 SL)	0.75 lb ae/a	A							
	2,4-D Ester	8 oz ai/a	A							
	AMS - Liquid	17 lb ai/100 gal	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							
15	Resolve (25 SG)	0.25 oz ai/a	A		100.0 a	100.0 a	99.5 a	93.5 a	84.0 a	15.4955574 a
	Isoxaflutole (75 SG)	0.5 oz ai/a	A							
	Sharpen 2.85 SC	0.0223 lb ai/a	A							
	COC	1 % v/v	A							
	AMS - Liquid	17 lb ai/100 gal	A							
	Abundit (3 SL)	0.75 lb ae/a	B							
	AMS - Liquid	17 lb ai/100 gal	B							

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Pest Type					
Pest Code					
Pest Scientific Name					
Pest Name					
Crop Code			ZEAMX	ZEAMX	
BBCH Scale			BCOR	BCOR	
Crop Scientific Name			Zea mays	Zea mays	
Crop Name			Corn	Corn	
Crop Variety			DKC 61-19	DKC 61-19	
Description					
Rating Date					
Rating Type			YIELD	YIELD	
Rating Unit			LB	BU	
Number of Subsamples			1	1	
Crop Stage Majority					
Pest Stage Majority					
Pest Density, Unit					
Assessed By					
Trt No.	Treatment Name	Rate	Appl Unit	Code	
		Rate	Unit	Code	
1	Untreated Check				19 20
					10.076 a 62.8 a
2	Resolve (25 SG)	0.25 oz ai/a	A		20.568 a 127.8 a
	Isoxaflutole (75 SG)	0.5 oz ai/a	A		
	2,4-D Ester	8 oz ai/a	A		
	COC	1 % v/v	A		
	Abundit (3 SL)	0.75 lb ae/a	B		
	AMS - Liquid	17 lb ai/100 gal	B		
3	Resolve (25 SG)	0.25 oz ai/a	A		25.330 a 158.1 a
	Isoxaflutole (75 SG)	0.5 oz ai/a	A		
	2,4-D Ester	8 oz ai/a	A		
	COC	1 % v/v	A		
	Resolve (25 SG)	0.25 oz ai/a	B		
	Harmony SG (50 SG)	0.05 oz ai/a	B		
	Isoxadifen (50 WG)	0.115 oz ai/a	B		
	Abundit (3 SL)	0.75 lb ae/a	B		
	AMS - Liquid	17 lb ai/100 gal	B		
4	Resolve (25 SG)	0.375 oz ai/a	A		24.378 a 152.7 a
	Isoxaflutole (75 SG)	0.75 oz ai/a	A		
	2,4-D Ester	8 oz ai/a	A		
	COC	1 % v/v	A		
	Abundit (3 SL)	0.75 lb ae/a	B		
	AMS - Liquid	17 lb ai/100 gal	B		
5	Resolve (25 SG)	0.25 oz ai/a	A		23.760 a 148.5 a
	Isoxaflutole (75 SG)	0.5 oz ai/a	A		
	2,4-D Ester	8 oz ai/a	A		
	Abundit (3 SL)	0.75 lb ae/a	A		
	AMS - Liquid	17 lb ai/100 gal	A		
	Abundit (3 SL)	0.75 lb ae/a	B		
	AMS - Liquid	17 lb ai/100 gal	B		

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Pest Type					
Pest Code					
Pest Scientific Name					
Pest Name					
Crop Code	ZEAMX	ZEAMX			
BBCH Scale	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays			
Crop Name	Corn	Corn			
Crop Variety	DKC 61-19	DKC 61-19			
Description					
Rating Date					
Rating Type	YIELD	YIELD			
Rating Unit	LB	BU			
Number of Subsamples	1	1			
Crop Stage Majority					
Pest Stage Majority					
Pest Density, Unit					
Assessed By					
Trt No.	Treatment Name	Rate	Unit	Appl Code	
					19 20
6	Resolve (25 SG)	0.375 oz ai/a	A		20.488 a 128.5 a
	Isoxaflutole (75 SG)	0.75 oz ai/a	A		
	2,4-D Ester	8 oz ai/a	A		
	Abundit (3 SL)	0.75 lb ae/a	A		
	AMS - Liquid	17 lb ai/100 gal	A		
	Abundit (3 SL)	0.75 lb ae/a	B		
	AMS - Liquid	17 lb ai/100 gal	B		
7	Resolve (25 SG)	0.25 oz ai/a	A		18.091 a 112.7 a
	Isoxaflutole (75 SG)	0.5 oz ai/a	A		
	2,4-D Ester	8 oz ai/a	A		
	Atrazine	16 oz ai/a	A		
	COC	1 % v/v	A		
	Abundit (3 SL)	0.75 lb ae/a	B		
	AMS - Liquid	17 lb ai/100 gal	B		
8	Resolve (25 SG)	0.375 oz ai/a	A		25.003 a 156.1 a
	Isoxaflutole (75 SG)	0.75 oz ai/a	A		
	2,4-D Ester	8 oz ai/a	A		
	Atrazine	16 oz ai/a	A		
	COC	1 % v/v	A		
	Abundit (3 SL)	0.75 lb ae/a	B		
	AMS - Liquid	17 lb ai/100 gal	B		
9	Resolve (25 SG)	0.25 oz ai/a	A		21.393 a 133.9 a
	Isoxaflutole (75 SG)	0.5 oz ai/a	A		
	Atrazine	16 oz ai/a	A		
	Abundit (3 SL)	0.75 lb ae/a	A		
	2,4-D Ester	8 oz ai/a	A		
	AMS - Liquid	17 lb ai/100 gal	A		
	Abundit (3 SL)	0.75 lb ae/a	B		
	AMS - Liquid	17 lb ai/100 gal	B		
10	Resolve (25 SG)	0.375 oz ai/a	A		27.838 a 174.1 a
	Isoxaflutole (75 SG)	0.75 oz ai/a	A		
	Atrazine	16 oz ai/a	A		
	Abundit (3 SL)	0.75 lb ae/a	A		
	2,4-D Ester	8 oz ai/a	A		
	AMS - Liquid	17 lb ai/100 gal	A		
	Abundit (3 SL)	0.75 lb ae/a	B		
	AMS - Liquid	17 lb ai/100 gal	B		

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Pest Type						
Pest Code						
Pest Scientific Name						
Pest Name						
Crop Code	ZEAMX	ZEAMX				
BBCH Scale	BCOR	BCOR				
Crop Scientific Name	Zea mays	Zea mays				
Crop Name	Corn	Corn				
Crop Variety	DKC 61-19	DKC 61-19				
Description						
Rating Date						
Rating Type	YIELD	YIELD				
Rating Unit	LB	BU				
Number of Subsamples	1	1				
Crop Stage Majority						
Pest Stage Majority						
Pest Density, Unit						
Assessed By						
Trt No.	Treatment Name	Rate	Unit	Appl Code	19	20
11	Resolve (25 SG)	0.25 oz ai/a	A		15.811 a	98.7 a
	Isoxaflutole (75 SG)	0.5 oz ai/a	A			
	Cinch ATZ (5.5 SC)	1.38 lb ai/a	A			
	2,4-D Ester	8 oz ai/a	A			
	COC	1 % v/v	A			
	Abundit (3 SL)	0.75 lb ae/a	B			
	AMS - Liquid	17 lb ai/100 gal	B			
12	Resolve (25 SG)	0.375 oz ai/a	A		18.650 a	116.6 a
	Isoxaflutole (75 SG)	0.75 oz ai/a	A			
	Cinch ATZ (5.5 SC)	1.38 lb ai/a	A			
	2,4-D Ester	8 oz ai/a	A			
	COC	1 % v/v	A			
	Abundit (3 SL)	0.75 lb ae/a	B			
	AMS - Liquid	17 lb ai/100 gal	B			
13	Resolve (25 SG)	0.25 oz ai/a	A		21.678 a	135.8 a
	Isoxaflutole (75 SG)	0.5 oz ai/a	A			
	Cinch ATZ (5.5 SC)	1.38 lb ai/a	A			
	Abundit (3 SL)	0.75 lb ae/a	A			
	2,4-D Ester	8 oz ai/a	A			
	AMS - Liquid	17 lb ai/100 gal	A			
	Abundit (3 SL)	0.75 lb ae/a	B			
	AMS - Liquid	17 lb ai/100 gal	B			
14	Resolve (25 SG)	0.375 oz ai/a	A		23.078 a	144.1 a
	Isoxaflutole (75 SG)	0.75 oz ai/a	A			
	Cinch ATZ (5.5 SC)	1.38 lb ai/a	A			
	Abundit (3 SL)	0.75 lb ae/a	A			
	2,4-D Ester	8 oz ai/a	A			
	AMS - Liquid	17 lb ai/100 gal	A			
	Abundit (3 SL)	0.75 lb ae/a	B			
	AMS - Liquid	17 lb ai/100 gal	B			
15	Resolve (25 SG)	0.25 oz ai/a	A		16.013 a	99.7 a
	Isoxaflutole (75 SG)	0.5 oz ai/a	A			
	Sharpen 2.85 SC	0.0223 lb ai/a	A			
	COC	1 % v/v	A			
	AMS - Liquid	17 lb ai/100 gal	A			
	Abundit (3 SL)	0.75 lb ae/a	B			
	AMS - Liquid	17 lb ai/100 gal	B			

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Pest Type					
Pest Code					
Pest Scientific Name					
Pest Name					
Crop Code			ZEAMX	ZEAMX	
BBCH Scale			BCOR	BCOR	
Crop Scientific Name			Zea mays	Zea mays	
Crop Name			Corn	Corn	
Crop Variety			DKC 61-19	DKC 61-19	
Description					
Rating Date					
Rating Type			YIELD	YIELD	
Rating Unit			LB	BU	
Number of Subsamples			1	1	
Crop Stage Majority					
Pest Stage Majority					
Pest Density, Unit					
Assessed By					
Trt No.	Treatment Name	Rate	Unit	Appl Code	
					19 20
16	Resolve (25 SG)	0.375 oz ai/a	A		19.445 a 121.2 a
	Isoxaflutole (75 SG)	0.75 oz ai/a	A		
	Sharpen 2.85 SC	0.0223 lb ai/a	A		
	COC	1 % v/v	A		
	AMS - Liquid	17 lb ai/100 gal	A		
	Abundit (3 SL)	0.75 lb ae/a	B		
	AMS - Liquid	17 lb ai/100 gal	B		
17	Abundit (3 SL)	0.75 lb ae/a	A		18.883 a 117.9 a
	2,4-D Ester	8 oz ai/a	A		
	AMS - Liquid	17 lb ai/100 gal	A		
	Abundit (3 SL)	0.75 lb ae/a	B		
	AMS - Liquid	17 lb ai/100 gal	B		
LSD (P=.05)					9.1888 57.53
Standard Deviation					6.4300 40.25
CV					31.19 31.26
Bartlett's X2					18.424 18.301
P(Bartlett's X2)					0.30 0.307
Replicate F					5.688 5.650
Replicate Prob(F)					0.0023 0.0024
Treatment F					1.787 1.792
Treatment Prob(F)					0.0660 0.0650