Horticulture and Crop Science
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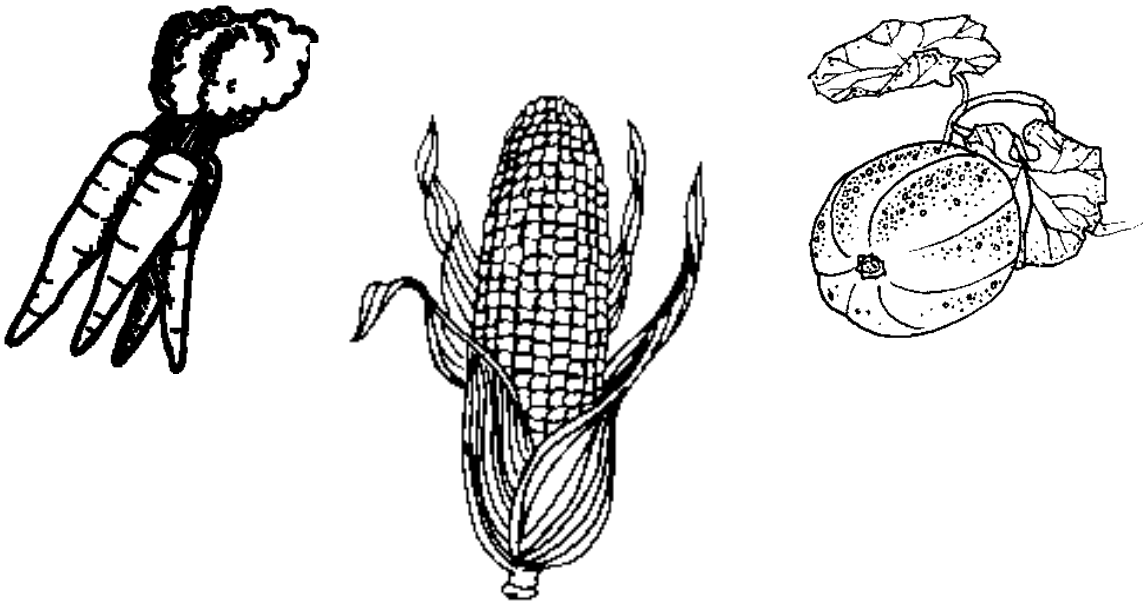
Weed Management In Horticultural Crops

RESEARCH RESULTS

2008



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Ohio Agricultural Research and Development Center
Ohio State Extension

This report contains the results of research on horticultural crop weed management in Ohio for 2008. This report and other resources are available on the Internet at: **www.oardc.ohio-state.edu/weedworkshop**

This bulletin does not constitute endorsement or specific recommendations. Apology is expressed for any inadvertent errors found in this report.

Final copies of commercial advertisement that will contain data from these results are subject to the author's approval before publication.

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A LIST OF CROP BAYER CODES USED IN THIS REPORT:

ALLCE = Green Onion
BRSOA = Collard
CPSAN = Pepper
CUMSA = Pickle
FRAAN = Strawberry
LYPES = Tomato
MABSD = Apple
MUSGN* = Mustard Green
RUBSG = Raspberry
ZEAMS = Sweet Corn

* not official Bayer Code.

A LIST OF ABBREVIATIONS AND DEFINITIONS USED IN THIS REPORT:

BURN = Necrotic tissue
CHLOROSIS = Yellow coloration or bleaching of foilage
CIRCUM = Circumference
CONTROL = Herbicide efficacy
DAT= Days after treatment
DIAM = Diameter
DISTORT = Leaf distortion
GROWTH = Annual increase in length of shoot
IMMAT = Immature fruit
INJURY = Composite assessment of stunting, chlorosis, and other visible effects
LEAF DISTOR = Leaf distortion
MKTB = Marketable
MKTB WT = Marketable weight
NO/PLOT = Number per plot
POST = Post emergent application; also LPOST, (late POST) and EPOST (early POST)
POSTHARV = Post harvest
POSTTP = Post-transplant
PRE = Pre emergent herbicide application
PRETP = Pre-transplant
STAND CT = Stand count
STUNT = Reduction in height or growth
THIN = Loss of foilage due to herbicide action
TTL MKTB = Total marketable
TTL YLD = Total yield
TWIST = Leaf and/or stem curl
UNMKTB = Unmarketable
VEGETAT = Vegetative
WAT = Weeks after treatment
YLD = Yield

METHODS OF ASSESSING CROP INJURY AND WEED CONTROL:

Unless otherwise stated, crop injury and weed control were assessed visually. The 0-100 linear scale was used, in which 0 = no crop injury/no control, and 100 = death of crop/complete weed control.

A LIST OF WEEDS WITH BAYER CODES USED IN THIS REPORT:

BAYER CODE	COMMON NAME	BOTANICAL NAME
ABUTH	velvetleaf	*Abutilon theophrasti* Medicus
ACCVI	Virginia copperleaf	*Acalypha virginica* L.
AGRASS*	foxtail, crabgrass spp.	*Setaria, Digitaria* spp.
AGGRE	quackgrass	*Elytrigia repens* (L.) Nevski
AMABL	prostrate pigweed	*Amaranthus blitoides S. Wats.*
AMARE	redroot pigweed	*Amaranthus retroflexus* L.
AMAXX	pigweed spp.	*Amaranthus* spp.
AMBEL	common ragweed	*Ambrosia artemisiifolia* L.
APPCA	hemp dogbane	*Apocynum cannabinum* L.
ASTPI	white-heath aster	*Aster plosus* Willd.
CAGSE	hedge bindweed	*Calystegia sepium* (L.) R. Br.
CAPBP	shepherd's purse	*Capsella bursa-pastoris* (L.) Medicus
CARHI	hairy bittercress	*Cardamine pratensis* L.
CERVU	mouseear chickweed	*Cerastium vulgatum* L.
CHEAL	common lambsquarters	*Chenopodium album* L.
CIRAR	Canada thistle	*Cirsium arvense* (L.) Scop.
CYPES	yellow nutsedge	*Cyperus esculentes* L.
DACGL	orchardgrass	*Dactylis glomerata* L.
DAUCA	wild carrot	*Daucus carota* L.
DIGSA	large crabgrass	*Digitaria sanguinalis* (L.) Scop.
EPHMA	spotted spurge	*Euphorbia maculata* L.
ERIAN	annual fleabane	*Erigermannuus* (L.) Perp.
GLEHE	ground ivy	*Glechoma hederacea* L.
LAMPU	purple deadnettle	*Lamium purpureum* L.
LEPVI	Virginia pepperweed	*Lepidium virginicum* L.
MALNE	common mallow	*Malva neglecta* Wallr.
MOLVE	carpetweed	*Mollugo verticillata* L.
MORAL	white mulberry	*Morus alba* L.
MUHFR	wirestem muhly	*Muhlenbergia frondosa* (Poir.) Fern
MUHSC	nimblewill	*Muhlenbergia schreberi* J.F.Gmel
OXAST	yellow woodsorrel	*Oxalis stricta* L.
PANDI	fall panicum	*Panicum dichotomiflorum* Michx.

PLALA	buckhorn plantain	*Plantago lanceolata* L.
PLAMA	broadleaf plantain	*Plantago major* L.
POANN	annual bluegrass	*Poa annua* L.
POLAV	prostrate knotweed	*Polygonum aviculare* L.
POLPY	Pennsylvania smartweed	*Polygonum pensylvanicum* L.
POROL	common purslane	*Portulaca oleracea* L.
PRTQU	Virginia creeper	*Parthenocissus quinquifolia* (L.) Planch.
PRUVU	healall	*Prunella vulgaris* L.
RUBFR	bramble	*Rubus fruticosis* L.
RUMAA	red sorrel	*Rumex acetosella* L.
RUMOB	broadleaf dock	*Rumex obtusifolius* L.
SETFA	giant foxtail	*Setaria faberii* L.
SENVU	common groundsel	*Senecio vularis* L.
SOLPT	Eastern black nightshade	*Solanum ptycanthum* Dun.
SOOCA	Canada goldenrod	*Solidago canadensis* L.
STEME	common chickweed	*Stellaria media* (L.) Vill
TAROF	dandelion	*Taraxacum officinale* Weber in Wiggers
TOXRA	poison ivy	*Toxicodendron* radicans (L.) Ktze.
TRFPR	red clover	*Trifolium pratense* L.
TRFRE	white clover	*Trifolium repens* L.
VENAL	tall ironweed	*Vernonia altissima* Nutt.

* not official Bayer Code.

Note: Control ratings for species not present at herbicide application are provided. These species will be listed under “Weed Stage At Each Application”, but growth stage information is not available.

HERBICIDE LIST

TRADE NAME	COMMON NAME	FORMULATION	MANUFACTURER
Aatrex	atrazine	4 L	Syngenta
Accent	nicosulfuron	75DF	DuPont
Arsenal	Isopropylamine salt of imazapyr	28.7 EC	BASF
Callisto	mesotrione	4.0 SC	Syngenta
Casoron	dichlobenil	4 G	Chemtura Corporation
Chateau	flumioxazin	51 WDG	Valent
Clarity	dicamba	4L	BASF
Command	clomozone	3L	FMC
Devrinol	napropamide	50 DF	United Phosphorus, Inc.
Dual Magnum	s-metolachlor	7.62 EC	Syngenta
Dual II Magnum	s-metolachlor + safener	7.64 EC	Syngenta
Escort	metsulfuron methyl	60WG	DuPont
Goal 2XL	oxyfluoren	2 SL	Dow AgroSciences LLC
Goaltender	oxyfluoren	4 L	Dow AgroSciences LLC
Gramaxone Max	paraquat	3 L	Syngenta
Harmony GT	thifensulfuron	75 DF	DuPont
Impact	topramezone	2.8 L	AMVAC
Karmex	diuron	80 DF	Griffin LLC
Kixor	saflufenacil	N/A	BASF
KJM-44	N/A	80WG	DuPont
Krenite S	fosamine asmmonium	4L	DuPont
Laudis	tembotrione	3.5L	Bayer CropScience
Matrix	rimsulfuron	25 DF	DuPont
Outlook	dimethenamid	6 L	BASF
Princep Caliber	simazine	90 WDG	Syngenta
Prowl H_2O	pendimethalin	3.8 L	BASF
Reflex	fomesafen	2L	Syngenta
Roundup W/M	glyphosate	4.5 L	Monsanto
Sandea	halosulfuron-methyl	75 DF	Gowan Company
Select	clethodim	2 L	Valent
Sencor	metribuzin	75 DF	Bayer CropScience
Sinbar	terbacil	80 WP	DuPont
Spartan	sulfentrazone	75 DF	FMC Corporation
Status	difluenzopyr + dicamba	56%	BASF
Stinger	clopyralid	3 L	Dow AgroSciences LLC
Strategy	ethafluralin (18.2%)+ clomazone(5.6%)	2.1 EC	Platte Chemical Co.
V-10142	NA	75 WD	Valent
Valor	flumioxazin	51 WDG	Valent
Westar	hexazinone + sulfmeturon methyl	75.1 DG	DuPont

ADJUVANT LIST

NAME	ABBREVIATION	DESCRIPTION
Ammonium sulfate	AMS	Spray grade fertilizer
Crop Oil Concentrate	COC	Paraffin base petroleum oil
DYNE-A-PAK	NONE	Nonionic surfactant
Induce	NIS	Nonionic surfactant
MSO	MSO	Methylated seed oil
28% N	UAN	Urea ammonia nitrate

Daily Weather Summary for 4/1/2007 to 7/31/2007 at OARDC – Muck Crops Agricultural Research Station, Willard, Ohio 44890

Huron County, Latitude: 41° 01' N; Longitude: 82° 44' W.

APRIL				MAY				JUNE				JULY				AUGUST			
Date	Precip. (in)	Min. Temp. °F	Max. Temp. °F	Date	Precip. (in)	Min. Temp. °F	Max. Temp. °F	Date	Precip. (in)	Min. Temp. °F	Max. Temp. °F	Date	Precip. (in)	Min. Temp. °F	Max. Temp. °F	Date	Precip. (in)	Min. Temp. °F	Max. Temp. °F
4/1/07	0	55	70	5/1/07	0.65	50	85	6/1/07	0	64	89	7/1/07	0	52	72	8/1/07	0	63	91
4/2/07	0	53	68	5/2/07	0	45	61	6/2/07	0.4	65	90	7/2/07	0	43	74	8/2/07	0	68	90
4/3/07	0	43	79	5/3/07	0	43	69	6/3/07	0.58	64	78	7/3/07	0	53	82	8/3/07	0	68	89
4/4/07	0	25	60	5/4/07	0	42	75	6/4/07	0.64	61	75	7/4/07	0	64	83	8/4/07	0	61	86
4/5/07	0	22	29	5/5/07	0	54	69	6/5/07	0.15	51	63	7/5/07	0.07	68	84	8/5/07	0.41	60	78
4/6/07	0	22	31	5/6/07	0	40	66	6/6/07	0.01	45	72	7/6/07	0	59	85	8/6/07	0	73	88
4/7/07	0	20	28	5/7/07	0	38	75	6/7/07	0	60	90	7/7/07	0	56	88	8/7/07	0.85	74	90
4/8/07	0	21	31	5/8/07	0	44	83	6/8/07	0.73	62	90	7/8/07	0	61	92	8/8/07	0.57	71	90
4/9/07	0	27	37	5/9/07	0	58	86	6/9/07	0	52	70	7/9/07	0	70	93	8/9/07	0.99	70	87
4/10/07	0	26	45	5/10/07	0.01	61	81	6/10/07	0	45	76	7/10/07	0.05	67	88	8/10/07	0.01	69	80
4/11/07	0	32	50	5/11/07	0	54	81	6/11/07	0	52	79	7/11/07	0.04	60	80	8/11/07	0	60	81
4/12/07	0	34	46	5/12/07	0	46	66	6/12/07	0	51	81	7/12/07	0.03	53	82	8/12/07	0	60	86
4/13/07	0	34	48	5/13/07	0	35	65	6/13/07	0.04	56	88	7/13/07	0.01	55	77	8/13/07	0	60	77
4/14/07	0	31	41	5/14/07	0	39	81	6/14/07	0	57	84	7/14/07	0	53	86	8/14/07	0	53	80
4/15/07	0	30	45	5/15/07	0.18	62	89	6/15/07	0	56	80	7/15/07	0.1	58	79	8/15/07	0	62	81
4/16/07	0	32	53	5/16/07	0.44	47	65	6/16/07	0	54	85	7/16/07	0	50	83	8/16/07	0.36	66	83
4/17/07	0	34	57	5/17/07	0	42	53	6/17/07	0	66	88	7/17/07	0.12	62	79	8/17/07	0	60	80
4/18/07	0	32	51	5/18/07	0	36	63	6/18/07	0	65	94	7/18/07	0.01	60	85	8/18/07	0	48	71
4/19/07	0	38	57	5/19/07	0	41	70	6/19/07	0.13	66	84	7/19/07	0.77	61	76	8/19/07	0.54	57	64
4/20/07	0.06	39	68	5/20/07	0	48	76	6/20/07	0.12	54	80	7/20/07	0.01	55	72	8/20/07	1.45	61	72
4/21/07	0	32	74	5/21/07	0	42	72	6/21/07	0	56	85	7/21/07	0	47	73	8/21/07	1.1	69	76
4/22/07	0	41	80	5/22/07	0	55	85	6/22/07	0	51	73	7/22/07	0	46	79	8/22/07	0.02	66	85
4/23/07	0	57	81	5/23/07	0	58	90	6/23/07	0	48	73	7/23/07	0	51	80	8/23/07	0	72	91
4/24/07	0	47	65	5/24/07	0	62	89	6/24/07	0	56	79	7/24/07	0.01	56	72	8/24/07	0	69	91
4/25/07	0.75	46	52	5/25/07	0.24	67	86	6/25/07	0	59	88	7/25/07	0.1	53	77	8/25/07	0.02	66	80
4/26/07	0.98	47	71	5/26/07	0.41	65	78	6/26/07	0	67	91	7/26/07	0.05	61	76	8/26/07	0.01	60	77
4/27/07	0.04	49	58	5/27/07	0.04	64	76	6/27/07	0.09	69	90	7/27/07	3.12	64	83	8/27/07	0	56	83
4/28/07	0.01	47	65	5/28/07	0	55	82	6/28/07	0.12	67	80	7/28/07	0	67	79	8/28/07	0	57	86
4/29/07	0	46	71	5/29/07	0	61	85	6/29/07	0.05	57	71	7/29/07	0.01	63	81	8/29/07	0	65	91
4/30/07	0.01	54	69	5/30/07	0	64	89	6/30/07	0	50	78	7/30/07	0	63	83	8/30/07	0	57	76
				5/31/07	0.11	62	89					7/31/07	0	57	87	8/31/07	0	51	75

Daily Weather Summary for 4/1/2007 to 8/31/2007 at OARDC, Wooster, Ohio 44691

Wayne County, one mile south of Wooster; Latitude: 40° 47' N; Longitude: 81° 55' W; Elevation: 1020 ft.

APRIL				MAY				JUNE				JULY				AUGUST			
Date	Precip (in)	Min. Temp °F	Max. Temp. °F	Date	Precip (in)	Min. Temp °F	Max. Temp. °F	Date	Precip (in)	Min. Temp °F	Max. Temp °F	Date	Precip (in)	Min. Temp. °F	Max. Temp. °F	Date	Precip. (in)	Min. Temp °F	Max. Temp °F
4/1/07	0.23	52	71	5/1/07	1.13	46	84	6/1/07	0.08	64	87	7/1/07	0	51	72	8/1/07	0	62	89
4/2/07	0	51	70	5/2/07	0.01	48	66	6/2/07	0	61	86	7/2/07	0	44	76	8/2/07	0	65	90
4/3/07	0	40	79	5/3/07	0	43	71	6/3/07	0.42	64	77	7/3/07	0	54	83	8/3/07	0	67	89
4/4/07	0.03	26	62	5/4/07	0	43	74	6/4/07	0.02	62	76	7/4/07	0.03	57	81	8/4/07	0	65	87
4/5/07	0	24	30	5/5/07	0	54	73	6/5/07	0.03	51	63	7/5/07	0.94	65	83	8/5/07	0.38	61	75
4/6/07	0	24	32	5/6/07	0	43	65	6/6/07	0.01	43	72	7/6/07	0	60	84	8/6/07	0	73	88
4/7/07	0	21	29	5/7/07	0	39	73	6/7/07	0	52	90	7/7/07	0	56	87	8/7/07	0	71	90
4/8/07	0	24	32	5/8/07	0	40	83	6/8/07	0.96	66	89	7/8/07	0	58	91	8/8/07	0	76	92
4/9/07	0	28	39	5/9/07	0	50	85	6/9/07	0	51	73	7/9/07	0	70	91	8/9/07	1.18	69	88
4/10/07	0	25	48	5/10/07	0	59	81	6/10/07	0	44	76	7/10/07	0	65	90	8/10/07	0.01	64	82
4/11/07	0.27	34	51	5/11/07	0	53	80	6/11/07	0	49	79	7/11/07	0.25	57	80	8/11/07	0	59	85
4/12/07	0.11	34	47	5/12/07	0	47	72	6/12/07	0	51	83	7/12/07	0	54	79	8/12/07	0	61	86
4/13/07	0.01	36	50	5/13/07	0	36	69	6/13/07	0.08	55	89	7/13/07	0	54	78	8/13/07	0	58	79
4/14/07	0.3	30	43	5/14/07	0	35	77	6/14/07	0.01	57	82	7/14/07	0	50	85	8/14/07	0.01	51	80
4/15/07	0.01	33	46	5/15/07	0.09	59	85	6/15/07	0	55	79	7/15/07	0	54	81	8/15/07	0	60	83
4/16/07	0	34	52	5/16/07	0.93	47	65	6/16/07	0	54	82	7/16/07	0	48	83	8/16/07	0.47	68	85
4/17/07	0	36	56	5/17/07	0.02	43	54	6/17/07	0.07	59	89	7/17/07	0.05	59	83	8/17/07	0.01	65	79
4/18/07	0	37	51	5/18/07	0	39	61	6/18/07	0.01	62	92	7/18/07	0	64	85	8/18/07	0	50	71
4/19/07	0	41	59	5/19/07	0	35	65	6/19/07	0.2	66	81	7/19/07	1.54	59	77	8/19/07	0.33	58	65
4/20/07	0	34	69	5/20/07	0	48	76	6/20/07	0	52	77	7/20/07	0.01	53	73	8/20/07	0.79	60	72
4/21/07	0	33	75	5/21/07	0	44	70	6/21/07	0.01	52	84	7/21/07	0	47	75	8/21/07	1.53	67	79
4/22/07	0	38	78	5/22/07	0	47	84	6/22/07	0	49	74	7/22/07	0	48	79	8/22/07	0.01	68	86
4/23/07	0.01	53	77	5/23/07	0	53	88	6/23/07	0	45	75	7/23/07	0	51	81	8/23/07	0	71	92
4/24/07	0	48	68	5/24/07	0	56	87	6/24/07	0	49	77	7/24/07	0.45	59	76	8/24/07	0	69	92
4/25/07	1.06	44	51	5/25/07	0.25	59	84	6/25/07	0	58	89	7/25/07	0.02	58	79	8/25/07	0.03	68	83
4/26/07	0.19	46	71	5/26/07	0.18	62	80	6/26/07	0	65	91	7/26/07	0.34	62	76	8/26/07	0.01	60	78
4/27/07	0.02	50	62	5/27/07	0.01	59	80	6/27/07	0.01	69	89	7/27/07	2.17	64	82	8/27/07	0	56	82
4/28/07	0.01	48	62	5/28/07	0	56	81	6/28/07	0.06	69	83	7/28/07	0.01	65	81	8/28/07	0	55	87
4/29/07	0	46	69	5/29/07	0	52	85	6/29/07	0	54	76	7/29/07	0	64	85	8/29/07	0	61	91
4/30/07	0	54	71	5/30/07	0	57	88	6/30/07	0	50	79	7/30/07	0	61	86	8/30/07	0	62	75
4/1/07	0.23	52	71	5/31/07	0.03	61	89	6/1/07	0.08	64	87	7/31/07	0	55	87	8/31/07	0	55	76

Daily Weather Summary for 4/1/2008 to 8/31/2008 at OARDC - Muck Crops Agricultural Research Station, Willard, Ohio 44890
Huron County, Latitude: 41° 01' N; Longitude: 82° 44' W.

APRIL				MAY				JUNE				JULY				AUGUST			
Date	Precip (in)	Min. Temp °F	Max. Temp. °F	Date	Precip (in)	Min. Temp. °F	Max. Temp. °F	Date	Precip (in)	Min. Temp °F	Max. Temp °F	Date	Precip (in)	Min. Temp. °F	Max. Temp. °F	Date	Precip. (in)	Min. Temp °F	Max. Temp °F
4/1/08	0.12	36	60	5/1/08	0	45	79	6/1/08	0	57	73	7/1/08	0	50	77	8/1/08	0	63	84
4/2/08	0	31	47	5/2/08	1.42	58	73	6/2/08	0	49	82	7/2/08	0	50	82	8/2/08	0	61	82
4/3/08	0.01	30	55	5/3/08	0.45	50	67	6/3/08	1.21	61	71	7/3/08	0.92	60	74	8/3/08	0	54	82
4/4/08	0.66	40	49	5/4/08	0	41	62	6/4/08	0.11	63	77	7/4/08	0	56	75	8/4/08	0	57	83
4/5/08	0	35	57	5/5/08	0	43	71	6/5/08	0.01	68	88	7/5/08	0	57	79	8/5/08	0	68	82
4/6/08	0	34	66	5/6/08	0	46	76	6/6/08	0	72	91	7/6/08	0	55	87	8/6/08	0	67	84
4/7/08	0	49	70	5/7/08	0.1	59	76	6/7/08	0	72	84	7/7/08	0	62	86	8/7/08	0.01	59	79
4/8/08	0	40	74	5/8/08	0.63	46	61	6/8/08	0	75	93	7/8/08	0.84	68	88	8/8/08	0	55	76
4/9/08	0.09	42	65	5/9/08	0.12	47	57	6/9/08	0.31	66	93	7/9/08	0.61	64	81	8/9/08	0.2	50	79
4/10/08	0.01	36	57	5/10/08	0.02	42	65	6/10/08	0.78	63	75	7/10/08	0	55	82	8/10/08	0.26	56	72
4/11/08	0.39	50	68	5/11/08	0.32	50	59	6/11/08	0	58	85	7/11/08	0	64	85	8/11/08	0	53	74
4/12/08	0.04	39	49	5/12/08	0.11	42	53	6/12/08	0	65	87	7/12/08	0.65	67	85	8/12/08	0	50	79
4/13/08	0.12	34	40	5/13/08	0.59	36	67	6/13/08	0.91	68	88	7/13/08	0.02	65	79	8/13/08	0.07	55	79
4/14/08	0.01	30	48	5/14/08	0.09	52	59	6/14/08	0.14	65	80	7/14/08	0	54	81	8/14/08	0.24	57	76
4/15/08	0	27	57	5/15/08	0.03	46	58	6/15/08	0.13	58	84	7/15/08	0	53	84	8/15/08	0	55	76
4/16/08	0	37	67	5/16/08	0.23	47	65	6/16/08	0.01	59	77	7/16/08	0	59	88	8/16/08	0	50	79
4/17/08	0	45	76	5/17/08	0.01	49	70	6/17/08	0	51	69	7/17/08	0	67	88	8/17/08	0	53	82
4/18/08	0	48	78	5/18/08	0.49	47	59	6/18/08	0	52	65	7/18/08	0	64	89	8/18/08	0	55	84
4/19/08	0.21	47	70	5/19/08	0	41	61	6/19/08	0	47	73	7/19/08	0	66	88	8/19/08	0	55	76
4/20/08	0.05	50	64	5/20/08	0	47	62	6/20/08	0	50	82	7/20/08	0.54	67	85	8/20/08	0	48	81
4/21/08	0	41	73	5/21/08	0	42	59	6/21/08	0.38	59	84	7/21/08	0.72	67	86	8/21/08	0	51	88
4/22/08	0	53	76	5/22/08	0.02	46	58	6/22/08	0.2	57	77	7/22/08	0.05	66	83	8/22/08	0	65	89
4/23/08	0	52	77	5/23/08	0	40	64	6/23/08	0.01	55	75	7/23/08	0	59	73	8/23/08	0	57	89
4/24/08	0	45	74	5/24/08	0	38	67	6/24/08	0	55	78	7/24/08	0	55	80	8/24/08	0.05	63	90
4/25/08	0.03	57	84	5/25/08	0	36	77	6/25/08	0.62	55	81	7/25/08	0	55	82	8/25/08	0	53	75
4/26/08	0.08	46	72	5/26/08	0.05	61	83	6/26/08	0.29	67	86	7/26/08	0.09	62	85	8/26/08	0	49	80
4/27/08	0	38	65	5/27/08	0	44	68	6/27/08	0	66	85	7/27/08	0	56	80	8/27/08	0.33	58	66
4/28/08	0.11	43	53	5/28/08	0	37	62	6/28/08	0.07	68	81	7/28/08	0	59	82	8/28/08	0.03	60	67
4/29/08	0.05	37	52	5/29/08	0	34	75	6/29/08	0	62	78	7/29/08	0	58	87	8/29/08	0.08	62	85
4/30/08	0	30	56	5/30/08	0.02	54	84	6/30/08	0.05	55	68	7/30/08	0.01	69	85	8/30/08	0	61	83
4/1/08	0.12	36	60																

Daily Weather Summary for 4/1/2008 to 8/31/2008 at OARDC, Wooster, Ohio 44691

Wayne County, one mile south of Wooster; Latitude: 40° 47' N; Longitude: 81° 55' W; Elevation: 1020 ft.

APRIL				MAY				JUNE				JULY				AUGUST			
Date	Precip (in)	Min. Temp °F	Max. Temp. °F	Date	Precip (in)	Min. Temp °F	Max. Temp. °F	Date	Precip (in)	Min. Temp °F	Max. Temp °F	Date	Precip (in)	Min. Temp. °F	Max. Temp. °F	Date	Precip. (in)	Min. Temp °F	Max. Temp °F
4/1/08	0.13	37	61	5/1/08	0	42	77	6/1/08	0	50	74	7/1/08	0	50	77	8/1/08	0	63	84
4/2/08	0	33	47	5/2/08	0.31	61	79	6/2/08	0	46	80	7/2/08	0	50	82	8/2/08	0	61	82
4/3/08	0.04	31	55	5/3/08	0.38	51	68	6/3/08	0.57	59	70	7/3/08	0.92	60	74	8/3/08	0	54	82
4/4/08	0.13	39	59	5/4/08	0	43	65	6/4/08	0.27	65	76	7/4/08	0	56	75	8/4/08	0	57	83
4/5/08	0	33	56	5/5/08	0	38	71	6/5/08	0.02	66	88	7/5/08	0	57	79	8/5/08	0	68	82
4/6/08	0	33	67	5/6/08	0.01	45	77	6/6/08	0	68	90	7/6/08	0	55	87	8/6/08	0	67	84
4/7/08	0	45	72	5/7/08	0.08	55	77	6/7/08	0	73	84	7/7/08	0	62	86	8/7/08	0.01	59	79
4/8/08	0	41	77	5/8/08	0.3	50	61	6/8/08	0	74	90	7/8/08	0.84	68	88	8/8/08	0	55	76
4/9/08	0	44	67	5/9/08	0.24	49	65	6/9/08	0	67	90	7/9/08	0.61	64	81	8/9/08	0.2	50	79
4/10/08	0	34	64	5/10/08	0.07	43	67	6/10/08	0.44	61	80	7/10/08	0	55	82	8/10/08	0.26	56	72
4/11/08	0.28	53	72	5/11/08	0.48	48	58	6/11/08	0	55	86	7/11/08	0	64	85	8/11/08	0	53	74
4/12/08	0.02	39	54	5/12/08	0.15	41	52	6/12/08	0	62	88	7/12/08	0.65	67	85	8/12/08	0	50	79
4/13/08	0.06	34	44	5/13/08	0	34	69	6/13/08	0.73	68	89	7/13/08	0.02	65	79	8/13/08	0.07	55	79
4/14/08	0	32	49	5/14/08	0.01	46	58	6/14/08	0.18	60	81	7/14/08	0	54	81	8/14/08	0.24	57	76
4/15/08	0	23	57	5/15/08	0	46	63	6/15/08	0.13	55	83	7/15/08	0	53	84	8/15/08	0	55	76
4/16/08	0	30	69	5/16/08	0.09	47	63	6/16/08	0.07	60	78	7/16/08	0	59	88	8/16/08	0	50	79
4/17/08	0	38	73	5/17/08	0.11	47	69	6/17/08	0	52	69	7/17/08	0	67	88	8/17/08	0	53	82
4/18/08	0	42	80	5/18/08	0.1	46	60	6/18/08	0	50	65	7/18/08	0	64	89	8/18/08	0	55	84
4/19/08	0.3	47	74	5/19/08	0	40	60	6/19/08	0.04	47	71	7/19/08	0	66	88	8/19/08	0	55	76
4/20/08	0.14	50	66	5/20/08	0	45	62	6/20/08	0	50	81	7/20/08	0.54	67	85	8/20/08	0	48	81
4/21/08	0	48	72	5/21/08	0	41	58	6/21/08	0.25	56	82	7/21/08	0.72	67	86	8/21/08	0	51	88
4/22/08	0	47	74	5/22/08	0	42	57	6/22/08	1.07	53	77	7/22/08	0.05	66	83	8/22/08	0	65	89
4/23/08	0	53	76	5/23/08	0	38	64	6/23/08	0.56	52	73	7/23/08	0	59	73	8/23/08	0	57	89
4/24/08	0	39	74	5/24/08	0	38	67	6/24/08	0	50	79	7/24/08	0	55	80	8/24/08	0.05	63	90
4/25/08	0	55	81	5/25/08	0	37	75	6/25/08	0.5	54	82	7/25/08	0	55	82	8/25/08	0	53	75
4/26/08	0	45	70	5/26/08	0.02	52	81	6/26/08	0.41	66	87	7/26/08	0.09	62	85	8/26/08	0	49	80
4/27/08	0	37	66	5/27/08	0	46	69	6/27/08	0	64	85	7/27/08	0	56	80	8/27/08	0.33	58	66
4/28/08	0.24	39	51	5/28/08	0	39	67	6/28/08	0.47	66	81	7/28/08	0	59	82	8/28/08	0.03	60	67
4/29/08	0.05	37	51	5/29/08	0	34	76	6/29/08	0.06	63	79	7/29/08	0	58	87	8/29/08	0.08	62	85
4/30/08	0	31	56																
4/1/08	0.13	37	61																

The Ohio State University

APPLES - WEED CONTROL AND CROP TOLERANCE WITH MATRIX

Trial ID: APPMATRIXW08
Location: Wooster, Ohio

Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Objective: To evaluate the efficacy and crop tolerance of Matrix FNV in combination with simazine and diuron.

TRIAL SUMMARY: None of the treatments injured the apple trees. Three cominations of Matrix with Princep or Karmex provided good weed control. Matrix/Karmex was the best treatment but did not control plantain. Matrix/Princep and Matrix/Princep/Karmex did not control hedge bindweed.

TRIAL LOCATION

City: Wooster
State/Prov.: Ohio
Postal Code: 44691
Country: USA

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 04/02/08
Planned Completion Date: 09/15/08

CROP AND WEED DESCRIPTION

Weed	Code	Common Name
1	AGRASS	annual grasses (various)
2	AGGRE	quackgrass
3	AMBEL	common ragweed
4	CAGSE	hedge bindweed
5	CARHI	hairy bittercress
6	CERVU	mouseear chickweed
7	CHEAL	common lambsquarter
8	CIRAR	Canada thistle
9	DACGL	orchardgrass
10	ERIAN	annual fleabane
11	OXAST	yellow woodsorrel
12	PLALA	buckhorn plantain
13	POLPY	Pennsylvania smartweed
14	RUMAA	red sorrel
15	SOOCA	Canada goldenrod
16	TAROF	dandelion
17	TRFRE	white clover

Crop 1: MABSD APPLE
Planting Date: 05/15/07
Perennial Age: 2 YR

Variety: TRANSPARENT/M7
Planting Method: TREE SPADE
Spacing Within Row: 15 FT

SITE AND DESIGN

Plot Width, Unit: 4 FT
Site Type: LEVEL FIELD
Tillage Type: CONVENTIONAL

Plot Length, Unit: 25 FT
Reps: 4
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 16
% Silt: 72
% Clay: 12

% OM: 3.11
pH: 6.86
CEC: 14

Soil Type: SILT LOAM
Soil Name: WOOSTER SILT LOAM
Fert. Level: MODERATE

The Ohio State University

APPLES - WEED CONTROL AND CROP TOLERANCE WITH MATRIX

Trial ID: APPMATRIXW08 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

APPLICATION DESCRIPTION

	A
Application Date:	4/2/2008
Time of Day:	10-11 AM
Application Method:	SPRAY
Application Timing:	PRE
Applic. Placement:	DIRECTED (SHIELDED)
Air Temp., Unit:	37.7 F
% Relative Humidity:	55.3
Wind Velocity, Unit:	4.3
Soil Moisture:	MOIST
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	MABSD, PRE
Stage Scale:	DORMANT
Height, Unit:	5 FT

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	AGRASS, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 2 Code, Stage:	AGGRE, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 3 Code, Stage:	AMBEL, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 4 Code, Stage:	CAGSE, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 5 Code, Stage:	CARHI, PRE
Stage Scale:	0.25"
Density, Unit:	MEDIUM, PLOT
Weed 6 Code, Stage:	CERVU, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 7 Code, Stage:	CHEAL, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 8 Code, Stage:	CIRAR, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 9 Code, Stage:	DACGL, PRE
Stage Scale:	.
Density, Unit:	. .
Weed10 Code, Stage:	ERIAN, PRE
Stage Scale:	.
Density, Unit:	. .

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APPLES - WEED CONTROL AND CROP TOLERANCE WITH MATRIX

Trial ID: APPMATRIXW08
Location: Wooster, Ohio

Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed11 Code, Stage:	OXAST, PRE
Stage Scale:	.
Density, Unit:	. .
Weed12 Code, Stage:	PLALA, PRE
Stage Scale:	0.50"
Density, Unit:	LOW, PLOT
Weed13 Code, Stage:	POLPY, PRE
Stage Scale:	.
Density, Unit:	. .
Weed14 Code, Stage:	RUMAA, PRE
Stage Scale:	.
Density, Unit:	. .
Weed15 Code, Stage:	SOOCA, PRE
Stage Scale:	.
Density, Unit:	. .
Weed16 Code, Stage:	TAROF, PRE
Stage Scale:	3 " DIAMETER
Density, Unit:	LOW, PLOT
Weed17 Code, Stage:	TRFRE PRE
Stage Scale:	3" DIAMETER
Density, Unit:	MEDIUM, PLOT

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	35
Nozzle Type:	FLAT FAN
Nozzle Size:	8002VS
Nozzles/Row:	1
Band Width, Unit:	15 IN
Ground Speed, Unit:	2.6 MPH
Carrier:	H20
Spray Volume, Unit:	25 GPA
Propellant:	C02

The Ohio State University

APPLES - WEED CONTROL AND CROP TOLERANCE WITH MATRIX

Trial ID: APPLEMATRIXW 2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code					AGRASS	CAGSE	CARHI	CERVU
Crop Code				APPLE	APPLE	APPLE	APPLE	APPLE
Part Rated				TREE	WEEDS	WEEDS	WEEDS	WEEDS
Rating Data Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/2/08	5/2/08	5/2/08	5/2/08	5/2/08
Trt-Eval Interval				30 DAT	30 DAT	30 DAT	30 DAT	30 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
UNTREATED CONTROL				0	0	0	0	0
MATRIX+	4	OZ/A	PRE	0	99	92	99	99
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	0	96	99	99	99
KARMEX+	48	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	0	97	99	99	99
PRINCEP CALIBER+	64	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	0	97	94	99	99
KARMEX+	32	OZ/A	PRE					
PRINCEP CALIBER+	32	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
ROUNDUP+	32	OZ/A	PRE	0	50	50	99	99
NIS	0.25	QT/A	PRE					
CHATEAU	8	OZ/A	PRE	0	99	92	99	99
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
LSD (P=.05)				0	33	36	0	0
Standard Deviation				0	22	25	0	0
CV				0	29	33	0	0

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APPLES - WEED CONTROL AND CROP TOLERANCE WITH MATRIX

Trial ID: APPLEMATRIXW 2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				TRFRE	ERIAN	TAROF	SOOCA	CHEAL
Crop Code				APPLE	APPLE	APPLE	APPLE	APPLE
Part Rated				WEEDS	WEEDS	WEEDS	WEEDS	WEEDS
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/2/08	5/2/08	5/2/08	5/2/08	5/2/08
Trt-Eval Interval				30 DAT	30 DAT	30 DAT	30 DAT	30 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
UNTREATED CONTROL				0	0	0	0	0
MATRIX+	4	OZ/A	PRE	91	99	99	99	99
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	99	99	99	96	99
KARMEX+	48	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	90	99	97	84	99
PRINCEP CALIBER+	64	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	99	99	99	99	99
KARMEX+	32	OZ/A	PRE					
PRINCEP CALIBER+	32	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
ROUNDUP+	32	OZ/A	PRE	50	74	25	99	25
NIS	0.25	QT/A	PRE					
CHATEAU	8	OZ/A	PRE	84	99	99	99	99
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
LSD (P=.05)				33	28	28	16	28
Standard Deviation				22	19	19	11	19
CV				30	23	25	13	25

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APPLES - WEED CONTROL AND CROP TOLERANCE WITH MATRIX

Trial ID: APPLEMATRIXW 2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				DACGL	PLALA	AGGRE	AMBEL	RUMAA
Crop Code				APPLE	APPLE	APPLE	APPLE	APPLE
Part Rated				WEEDS	WEEDS	WEEDS	WEEDS	WEEDS
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/2/08	5/2/08	5/2/08	5/2/08	5/2/08
Trt-Eval Interval				30 DAT	30 DAT	30 DAT	30 DAT	30 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
UNTREATED CONTROL				0	0	0	0	0
MATRIX+	4	OZ/A	PRE	99	49	96	99	99
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	99	94	99	99	99
KARMEX+	48	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	98	87	98	99	99
PRINCEP CALIBER+	64	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	99	91	99	99	98
KARMEX+	32	OZ/A	PRE					
PRINCEP CALIBER+	32	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
ROUNDUP+	32	OZ/A	PRE	99	47	99	50	99
NIS	0.25	QT/A	PRE					
CHATEAU	8	OZ/A	PRE	98	99	87	99	99
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
LSD (P=.05)				1	39	14	32	1
Standard Deviation				1	26	9	22	1
CV				1	39	11	28	1

The Ohio State University

APPLES - WEED CONTROL AND CROP TOLERANCE WITH MATRIX

Trial ID: APPLEMATRIXW 2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				POLPY	CIRAR	OXAST		AGRASS
Crop Code				APPLE	APPLE	APPLE	APPLE	APPLE
Part Rated				WEEDS	WEEDS	WEEDS	TREE	WEEDS
Rating Data Type				CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/2/08	5/2/08	5/2/08	6/2/08	6/2/08
Trt-Eval Interval				30 DAT	30 DAT	30 DAT	60 DAT	60 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	16	17	18	19	20
UNTREATED CONTROL				0	0	0	0	0
MATRIX+	4	OZ/A	PRE	99	99	99	0	97
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	99	99	99	0	99
KARMEX+	48	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	99	97	99	0	97
PRINCEP CALIBER+	64	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	99	99	99	0	97
KARMEX+	32	OZ/A	PRE					
PRINCEP CALIBER+	32	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
ROUNDUP+	32	OZ/A	PRE	0	0	50	0	15
NIS	0.25	QT/A	PRE					
CHATEAU	8	OZ/A	PRE	99	91	99	0	94
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
LSD (P=.05)				0	10	32	28	7
Standard Deviation				0	7	22	19	5
CV				0	10	28	332	7

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APPLES - WEED CONTROL AND CROP TOLERANCE WITH MATRIX

Trial ID: APPLEMATRIXW 2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				CAGSE	CARHI	CERVU	TRFRE	ERIAN
Crop Code				APPLE	APPLE	APPLE	APPLE	APPLE
Part Rated				WEEDS	WEEDS	WEEDS	WEEDS	WEEDS
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/2/08	6/2/08	6/2/08	6/2/08	6/2/08
Trt-Eval Interval				60 DAT	60 DAT	60 DAT	60 DAT	60 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	21	22	23	24	25
UNTREATED CONTROL				0	0	0	0	0
MATRIX+	4	OZ/A	PRE	62	98	99	69	98
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	61	99	99	99	99
KARMEX+	48	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	67	99	99	99	99
PRINCEP CALIBER+	64	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	50	99	99	99	99
KARMEX+	32	OZ/A	PRE					
PRINCEP CALIBER+	32	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
ROUNDUP+	32	OZ/A	PRE	15	15	99	15	15
NIS	0.25	QT/A	PRE					
CHATEAU	8	OZ/A	PRE	52	99	99	53	99
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
LSD (P=.05)				60	6	0	37	6
Standard Deviation				41	4	0	25	4
CV				93	5	0	40	5

The Ohio State University

APPLES - WEED CONTROL AND CROP TOLERANCE WITH MATRIX

Trial ID: APPLEMATRIXW 2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				TAROF	SOOCA	CHEAL	DACGL	PLALA
Crop Code				APPLE	APPLE	APPLE	APPLE	APPLE
Part Rated				WEEDS	WEEDS	WEEDS	WEEDS	WEEDS
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/2/08	6/2/08	6/2/08	6/2/08	6/2/08
Trt-Eval Interval				60 DAT	60 DAT	60 DAT	60 DAT	60 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	26	27	28	29	30
UNTREATED CONTROL				25	0	0	0	0
MATRIX+	4	OZ/A	PRE	98	98	98	98	36
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	99	99	99	99	63
KARMEX+	48	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	99	87	99	87	97
PRINCEP CALIBER+	64	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	99	99	99	99	97
KARMEX+	32	OZ/A	PRE					
PRINCEP CALIBER+	32	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
ROUNDUP+	32	OZ/A	PRE	15	15	5	5	5
NIS	0.25	QT/A	PRE					
CHATEAU	8	OZ/A	PRE	99	74	74	74	74
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
LSD (P=.05)				28	33	29	33	35
Standard Deviation				19	22	20	22	24
CV				25	33	29	34	45

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APPLES - WEED CONTROL AND CROP TOLERANCE WITH MATRIX

Trial ID: APPLEMATRIXW 2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				AGGRE	AMBEL	RUMAA	POLPY	CIRAR
Crop Code				APPLE	APPLE	APPLE	APPLE	APPLE
Part Rated				WEEDS	WEEDS	WEEDS	WEEDS	WEEDS
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/2/08	6/2/08	6/2/08	6/2/08	6/2/08
Trt-Eval Interval				60 DAT	60 DAT	60 DAT	60 DAT	60 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	31	32	33	34	35
UNTREATED CONTROL				0	0	0	0	25
MATRIX+	4	OZ/A	PRE	95	98	98	98	98
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	98	99	99	99	99
KARMEX+	48	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	99	99	99	99	99
PRINCEP CALIBER+	64	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	99	99	99	99	82
KARMEX+	32	OZ/A	PRE					
PRINCEP CALIBER+	32	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
ROUNDUP+	32	OZ/A	PRE	5	5	5	5	5
NIS	0.25	QT/A	PRE					
CHATEAU	8	OZ/A	PRE	87	48	74	74	73
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
LSD (P=.05)				16	32	29	29	44
Standard Deviation				11	21	20	20	29
CV				16	33	29	29	43

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APPLES - WEED CONTROL AND CROP TOLERANCE WITH MATRIX

Trial ID: APPLEMATRIXW 2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				OXAST		AGRASS	CAGSE	CARHI
Crop Code				APPLE	APPLE	APPLE	APPLE	APPLE
Part Rated				WEEDS	TREE	WEEDS	WEEDS	WEEDS
Rating Data Type				CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/2/08	7/7/08	7/7/08	7/7/08	7/7/08
Trt-Eval Interval				60 DAT	90 DAT	90 DAT	90 DAT	90 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	36	37	38	39	40
UNTREATED CONTROL				0	0	0	0	0
MATRIX+	4	OZ/A	PRE	92	0	91	50	99
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	57	0	91	74	99
KARMEX+	48	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	86	0	83	13	99
PRINCEP CALIBER+	64	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	98	0	90	32	99
KARMEX+	32	OZ/A	PRE					
PRINCEP CALIBER+	32	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
ROUNDUP+	32	OZ/A	PRE	0	0	0	0	0
NIS	0.25	QT/A	PRE					
CHATEAU	8	OZ/A	PRE	29	0	62	50	99
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
LSD (P=.05)				44	0	25	64	0
Standard Deviation				29	0	17	43	0
CV				57	0	28	138	0

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APPLES - WEED CONTROL AND CROP TOLERANCE WITH MATRIX

Trial ID: APPLEMATRIXW 2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				CERVU	TRFRE	ERIAN	TAROF	SOOCA
Crop Code				APPLE	APPLE	APPLE	APPLE	APPLE
Part Rated				WEEDS	WEEDS	WEEDS	WEEDS	WEEDS
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/7/08	7/7/08	7/7/08	7/7/08	7/7/08
Trt-Eval Interval				90 DAT	90 DAT	90 DAT	90 DAT	90 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	41	42	43	44	45
UNTREATED CONTROL				0	0	0	0	0
MATRIX+	4	OZ/A	PRE	99	94	99	99	99
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	99	99	99	99	99
KARMEX+	48	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	99	99	99	99	74
PRINCEP CALIBER+	64	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	99	99	99	99	99
KARMEX+	32	OZ/A	PRE					
PRINCEP CALIBER+	32	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
ROUNDUP+	32	OZ/A	PRE	99	0	0	0	0
NIS	0.25	QT/A	PRE					
CHATEAU	8	OZ/A	PRE	99	66	99	99	74
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
LSD (P=.05)				0	15	0	0	40
Standard Deviation				0	10	0	0	27
CV				0	16	0	0	43

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APPLES - WEED CONTROL AND CROP TOLERANCE WITH MATRIX

Trial ID: APPLEMATRIXW 2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				CHEAL	DACGL	PLALA	AGGRE	AMBEL
Crop Code				APPLE	APPLE	APPLE	APPLE	APPLE
Part Rated				WEEDS	WEEDS	WEEDS	WEEDS	WEEDS
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/7/08	7/7/08	7/7/08	7/7/08	7/7/08
Trt-Eval Interval				90 DAT	90 DAT	90 DAT	90 DAT	90 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	46	47	48	49	50
UNTREATED CONTROL				0	0	0	0	0
MATRIX+	4	OZ/A	PRE	99	99	0	99	94
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	99	99	0	99	99
KARMEX+	48	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	99	99	97	99	97
PRINCEP CALIBER+	64	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
MATRIX+	4	OZ/A	PRE	99	99	62	99	99
KARMEX+	32	OZ/A	PRE					
PRINCEP CALIBER+	32	OZ/A	PRE					
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
ROUNDUP+	32	OZ/A	PRE	0	0	0	0	0
NIS	0.25	QT/A	PRE					
CHATEAU	8	OZ/A	PRE	99	99	99	99	50
ROUNDUP+	32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
LSD (P=.05)				0	0	27	0	33
Standard Deviation				0	0	18	0	22
CV				0	0	49	0	36

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APPLES - WEED CONTROL AND CROP TOLERANCE WITH MATRIX

Trial ID: APPLEMATRIXW 2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				RUMAA	POLPY	CIRAR	OXAST
Crop Code				APPLE	APPLE	APPLE	APPLE
Part Rated				WEEDS	WEEDS	WEEDS	WEEDS
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%
Rating Date				7/7/08	7/7/08	7/7/08	7/7/08
Trt-Eval Interval				90 DAT	90 DAT	90 DAT	90 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	51	52	53	54
UNTREATED CONTROL				0	0	0	0
MATRIX+	4	OZ/A	PRE	99	99	74	96
ROUNDUP+	32	OZ/A	PRE				
NIS	0.25	QT/A	PRE				
MATRIX+	4	OZ/A	PRE	99	99	99	99
KARMEX+	48	OZ/A	PRE				
ROUNDUP+	32	OZ/A	PRE				
NIS	0.25	QT/A	PRE				
MATRIX+	4	OZ/A	PRE	99	99	74	99
PRINCEP CALIBER+	64	OZ/A	PRE				
ROUNDUP+	32	OZ/A	PRE				
NIS	0.25	QT/A	PRE				
MATRIX+	4	OZ/A	PRE	71	99	87	99
KARMEX+	32	OZ/A	PRE				
PRINCEP CALIBER+	32	OZ/A	PRE				
ROUNDUP+	32	OZ/A	PRE				
NIS	0.25	QT/A	PRE				
ROUNDUP+	32	OZ/A	PRE	0	0	0	0
NIS	0.25	QT/A	PRE				
CHATEAU	8	OZ/A	PRE	99	99	82	50
ROUNDUP+	32	OZ/A	PRE				
NIS	0.25	QT/A	PRE				
LSD (P=.05)				27	0	48	33
Standard Deviation				18	0	32	22
CV				27	0	54	35

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CHRISTMAS TREES - WEED CONTROL AND CROP TOLERANCE WITH WESTAR ON FRASER FIR

Trial ID: XMASTREEW2008
Location: Wooster, Ohio

Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Objective: Evaluate Westar on a spruce or fir type Christmas tree for weed efficacy and tree tolerance in the eastern/mid-western states of the U.S.

Trial Summary: This trial evaluates four rates of Westar, and flumioxazin alone on Fraser fir. Applications were a single directed spray to the ground in April while trees were dormant. The best overall treatment in this trial was Westar at 12 oz/A.

TRIAL LOCATION

City: Wooster
State/Prov.: Ohio
Postal Code: 44691
Country: USA

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 04/02/08
Planned Completion Date: 09/15/08

CROP AND WEED DESCRIPTION

Weed	Code	Common Name
1	AGGRE	quackgrass
2	CARHI	hairy bittercress
3	DACGL	orchardgrass
4	DAUCA	wild carrot
5	RUBFR	bramble
6	RUMAA	red sorrel
7	SOOCA	Canada goldenrod
8	TAROF	dandelion
9	TOXRA	poison ivy
10	TRFPR	red clover

Crop1: ABIFR
Rate: 1400 PER ACRE
Planting Date: 05/15/02
Seed Bed: CONVENTIONAL

Variety: FRASER FIR
Planting Method: CONVENTIONAL
Perennial Age: 5 YR

SITE AND DESIGN

Plot Width, Unit: 4 FT
Site Type: LEVEL FIELD
Tillage Type: NONE

Plot Length, Unit: 20 FT
Reps: 4
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 11
% Silt: 75
% Clay: 14

% OM: 3.11
pH: 6.0
Fert. Level: MODERATE

Texture: CANFIELD
Soil Name: SILT LOAM

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CHRISTMAS TREES - WEED CONTROL AND CROP TOLERANCE WITH WESTAR ON FRASER FIR

Trial ID: XMASTREEW2008
Location: Wooster, Ohio

Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

APPLICATION DESCRIPTION

	A
Application Date:	4/2/2008
Time of Day:	2-3 PM
Application Method:	SPRAY
Application Timing:	PRE
Applic. Placement:	DIRECTED
Air Temp., Unit:	43.3 F
% Relative Humidity:	46.7
Wind Velocity, Unit:	6.1 MPH
Dew Presence (Y/N):	N
Soil Moisture:	MOIST
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	ABIFR, PRE
Stage Scale:	DORMANT
Height, Unit:	4 FT

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	AGGRE, PRE
Stage Scale:	2.5" HIGH
Density, Unit:	LOW, PLOT
Weed 2 Code, Stage:	CARHI, PRE
Stage Scale:	0.5" HIGH
Density, Unit:	MEDIUM, PLOT
Weed 3 Code, Stage:	DACGL PRE
Stage Scale:	2 " HIGH
Density, Unit:	MEDIUM, PLOT
Weed 4 Code, Stage:	DAUCA, PRE
Stage Scale:	.25" HIGH
Density, Unit:	MEDIUM, PLOT
Weed 5 Code, Stage:	RUBFR, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 6 Code, Stage:	RUMAA, PRE
Stage Scale:	3.5" HIGH
Density, Unit:	MEDIUM, PLOT
Weed 7 Code, Stage:	SOOCA, PRE
Stage Scale:	3- 4" DIAMETER
Density, Unit:	MEDIUM, PLOT
Weed 8 Code, Stage:	TAROF, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 9 Code, Stage:	TOXRA, PRE
Stage Scale:	.
Density, Unit:	. .
Weed10 Code, Stage:	TRFPR, PRE
Stage Scale:	.
Density, Unit:	. .

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CHRISTMAS TREES - WEED CONTROL AND CROP TOLERANCE WITH WESTAR ON FRASER FIR

Trial ID: XMASTREEW2008
Location: Wooster, Ohio

Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	35
Nozzle Type:	FLAT FAN
Nozzle Size:	8003 EVS
Nozzles/Row:	1
Band Width, Unit:	22 IN
Ground Speed, Unit:	3 MPH
Carrier:	H2O
Spray Volume, Unit:	25 GPA
Propellant:	CO2

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CHRISTMAS TREES - WEED CONTROL AND CROP TOLERANCE WITH WESTAR ON FRASER FIR

Trial ID: XMASTREEW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code					CARHI	RUBFR	TRFPR	TAROF
Crop Code				ABIFR	ABIFR	ABIFR	ABIFR	ABIFR
Part Rated				PLANT	WEED	WEED	WEED	WEED
Rating Data Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/2/08	5/2/08	5/2/08	5/2/08	5/2/08
Trt-Eval Interval				30 DAT	30 DAT	30 DAT	30 DAT	30 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
UNTREATED CONTROL				0	0	0	0	0
WESTAR	6	OZ/A	PRE	0	99	50	73	99
WESTAR	8	OZ/A	PRE	0	99	74	97	99
WESTAR	10	OZ/A	PRE	0	99	94	99	99
WESTAR	12	OZ/A	PRE	0	99	74	99	99
FLUMIOXAZIN+ NIS	8 0.25	OZ/A QT/A	PRE PRE	0	99	50	0	25
LSD (P=.05)				0	0	71	30	31
Standard Deviation				0	0	47	20	20
CV				0	0	83	33	29

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CHRISTMAS TREES - WEED CONTROL AND CROP TOLERANCE WITH WESTAR ON FRASER FIR

Trial ID: XMASTREEW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				SOOCA	DACGL	TOXRA	AGGRE	RUMAA
Crop Code				ABIFR	ABIFR	ABIFR	ABIFR	ABIFR
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/2/08	5/2/08	5/2/08	5/2/08	5/2/08
Trt-Eval Interval				30 DAT	30 DAT	30 DAT	30 DAT	30 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
UNTREATED CONTROL				0	0	0	0	25
WESTAR	6	OZ/A	PRE	70	98	99	96	98
WESTAR	8	OZ/A	PRE	89	99	99	99	99
WESTAR	10	OZ/A	PRE	61	90	74	99	99
WESTAR	12	OZ/A	PRE	85	98	99	98	98
FLUMIOXAZIN+	8	OZ/A	PRE	0	25	99	0	0
NIS	0.25	QT/A	PRE					
LSD (P=.05)				12	30	31	3	30
Standard Deviation				8	20	20	2	20
CV				15	29	26	3	29

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CHRISTMAS TREES - WEED CONTROL AND CROP TOLERANCE WITH WESTAR ON FRASER FIR

Trial ID: XMASTREEW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				CIRAR	DAUCA		CARHI	RUBFR	TRFPR
Crop Code				ABIFR	ABIFR	ABIFR	ABIFR	ABIFR	ABIFR
Part Rated				WEED	WEED	PLANT	PLANT	WEED	WEED
Rating Data Type				CONTROL	CONTROL	INJURY	INJURY	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				5/2/08	5/2/08	6/2/08	6/2/08	6/2/08	6/2/08
Trt-Eval Interval				30 DAT	30 DAT	60 DAT	60 DAT	60 DAT	60 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15	16
UNTREATED CONTROL				0	0	0	0	0	0
WESTAR	6	OZ/A	PRE	78	81	0	99	72	99
WESTAR	8	OZ/A	PRE	66	90	0	99	50	99
WESTAR	10	OZ/A	PRE	99	80	0	99	99	99
WESTAR	12	OZ/A	PRE	98	86	0	99	79	99
FLUMIOXAZIN+ NIS	8 0.25	OZ/A QT/A	PRE PRE	0	0	0	99	25	25
LSD (P=.05)				35	14	0	0	60	31
Standard Deviation				23	9	0	0	40	20
CV				41	17	0	0	74	29

CHRISTMAS TREES - WEED CONTROL AND CROP TOLERANCE WITH WESTAR ON FRASER FIR

Trial ID: XMASTREEW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				TAROF	SOOCA	DACGL	TOXRA	AGGRE
Crop Code				ABIFR	ABIFR	ABIFR	ABIFR	ABIFR
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/2/08	6/2/08	6/2/08	6/2/08	6/2/08
Trt-Eval Interval				60 DAT	60 DAT	60 DAT	60 DAT	60 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	17	18	19	20	21
UNTREATED CONTROL				0	0	0	0	0
WESTAR	6	OZ/A	PRE	99	82	97	40	98
WESTAR	8	OZ/A	PRE	99	99	98	29	98
WESTAR	10	OZ/A	PRE	99	99	99	29	98
WESTAR	12	OZ/A	PRE	99	99	99	59	99
FLUMIOXAZIN+	8	OZ/A	PRE	25	25	25	25	25
NIS	0.25	QT/A	PRE					
LSD (P=.05)				31	36	30	66	31
Standard Deviation				20	24	20	44	20
CV				29	35	29	147	29

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CHRISTMAS TREES - WEED CONTROL AND CROP TOLERANCE WITH WESTAR ON FRASER FIR

Trial ID: XMASTREEW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				RUMAA	CIRAR	DAUCA		AGRASS
Crop Code				ABIFR	ABIFR	ABIFR	ABIFR	ABIFR
Part Rated				WEED	WEED	WEED	PLANT	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/2/08	6/2/08	6/2/08	7/2/08	7/2/08
Trt-Eval Interval				60 DAT	60 DAT	60 DAT	90 DAT	90 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	22	23	24	25	26
UNTREATED CONTROL				0	0	0	0	0
WESTAR	6	OZ/A	PRE	99	75	71	0	99
WESTAR	8	OZ/A	PRE	99	52	80	0	97
WESTAR	10	OZ/A	PRE	99	92	64	0	97
WESTAR	12	OZ/A	PRE	99	99	64	0	99
FLUMIOXAZIN+	8	OZ/A	PRE	25	0	0	0	0
NIS	0.25	QT/A	PRE					
LSD (P=.05)				31	31	36	0	4
Standard Deviation				20	20	24	0	3
CV				29	38	51	0	4

The Ohio State University

CHRISTMAS TREES - WEED CONTROL AND CROP TOLERANCE WITH WESTAR ON FRASER FIR

Trial ID: XMASTREEW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				CARHI	RUBFR	TRFPR	TAROF	SOOCA	DACGL
Crop Code				ABIFR	ABIFR	ABIFR	ABIFR	ABIFR	ABIFR
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/2/08	7/2/08	7/2/08	7/2/08	7/2/08	7/2/08
Trt-Eval Interval				90 DAT	90 DAT	90 DAT	90 DAT	90 DAT	90 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	27	28	29	30	31	32
UNTREATED CONTROL				0	0	0	0	0	0
WESTAR	6	OZ/A	PRE	99	99	99	99	71	99
WESTAR	8	OZ/A	PRE	99	82	99	99	99	74
WESTAR	10	OZ/A	PRE	99	99	99	99	96	92
WESTAR	12	OZ/A	PRE	99	74	99	99	99	99
FLUMIOXAZIN+	8	OZ/A	PRE	0	0	0	0	0	0
NIS	0.25	QT/A	PRE						
LSD (P=.05)				0	38	0	0	29	30
Standard Deviation				0	25	0	0	19	20
CV				0	43	0	0	31	33

CHRISTMAS TREES - WEED CONTROL AND CROP TOLERANCE WITH WESTAR ON FRASER FIR

Trial ID: XMASTREEW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				TOXRA	AGGRE	RUMAA	CIRAR	DAUCA
Crop Code				ABIFR	ABIFR	ABIFR	ABIFR	ABIFR
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/2/08	7/2/08	7/2/08	7/2/08	7/2/08
Trt-Eval Interval				90 DAT	90 DAT	90 DAT	90 DAT	90 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	33	34	35	36	37
UNTREATED CONTROL				0	0	0	0	0
WESTAR	6	OZ/A	PRE	25	99	99	50	3
WESTAR	8	OZ/A	PRE	0	97	99	60	20
WESTAR	10	OZ/A	PRE	0	99	99	74	30
WESTAR	12	OZ/A	PRE	40	97	99	99	55
FLUMIOXAZIN+ NIS	8 0.25	OZ/A QT/A	PRE PRE	0	0	0	0	0
LSD (P=.05)				42	4	0	56	28
Standard Deviation				28	2	0	37	18
CV				256	4	0	79	103

The Ohio State University

CURCURBITS - WEED CONTROL AND CROP TOLERANCE IN DIRECT-SEEDED APPLICATIONS

Trial ID: CURCURTRIAL208
Location: Wooster, Ohio

Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

Objective: To evaluate Reflex for use in curcurbits in relation to the Reflex IR-4 MOR Program.

TRIAL SUMMARY: This trial evaluated Reflex as well as Sandea + Strategy on pickle, cantaloupe and pumpkin. Reflex rates used in this trial were: 1.25 pt/A , 1.25 pt/A + Dual Magnum at 12 oz/A, and 2.50 pt/A. Reflex at all rates was injurious to pickle and cantaloupe, increasing with rate increase; pumpkin was not injured. The best overall treatment for weed control and low injury was Sandea + Strategy. Reflex appears to have potential for pumpkins but not for pickle and cantaloupe.

TRIAL LOCATION

City: Wooster
State/Prov.: Ohio
Postal Code: 44691
Country: USA

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 07/16/08
Planned Completion Date: 11/15/08

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	AGRASS	foxtail, crabgrass spp.	*Setaria, Digitaria spp.*
2	AMAXX	pigweed spp.	*Amaranthus spp.*
3	CIRAR	Canada thistle	*Cirsium arvense (L.) Scop.*
4	CYPES	yellow nutsedge	*Cyperus esclentes L.*
5	POROL	common purslane	*Portulaca oleracea L.*

Crop 1: CUMHY CANTALOUPE
Planting Date: 07/16/08
Rate: 1 SEED/12 IN.
Row Spacing: 8 FT
Soil Moisture: MOIST
Emergence Date: 07/24/08

Variety: 104 SE
Planting Method: HAND PLANT
Depth: 0.5 IN
Spacing Within Row: 18 IN
Seed Bed: CONVENTIONAL

Crop 2: CUMSA CUCUMBER
Planting Date: 07/16/08
Rate: 1 SEED/12 IN.
Row Spacing: 8 FT
Soil Moisture: MOIST
Emergence Date: 07/24/08

Variety: EUREKA
Planting Method: HAND PLANT
Depth: 0.5 IN
Spacing Within Row: 18 IN
Seed Bed: CONVENTIONAL

Crop 3: CUUPE PUMPKIN
Planting Date: 07/16/08
Rate: 1 SEED/12 IN.
Row Spacing: 8 FT
Soil Moisture: MOIST
Emergence Date: 07/24/08

Variety: CHUCKY (HSC 157)
Planting Method: HAND PLANT
Depth: 1 IN
Spacing Within Row: 18 IN
Seed Bed: CONVENTIONAL

The Ohio State University

CURCURBITS - WEED CONTROL AND CROP TOLERANCE IN DIRECT-SEEDED APPLICATIONS

Trial ID: CURCURTRIAL208
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

SITE AND DESIGN

Plot Width, Unit: 7 FT
Plot Length, Unit: 30 FT
Site Type: LEVEL FIELD
Reps: 4
Tillage Type: CONVENTIONAL
Study Design: SPLIT-PLOT

SOIL DESCRIPTION

% Sand: 11	% OM: 3.11	Texture: SILT LOAM
% Silt: 75	pH: 6.86	Soil Name: WOOSTER SILT LOAM
% Clay: 14	CEC: 14	Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A
Application Date:	7/16/2008
Time of Day:	10 AM
Application Method:	SPRAY
Application Timing:	PRE
Applic. Placement:	BROADCAST
Air Temp., Unit:	77.2 F
% Relative Humidity:	71.8
Wind Velocity, Unit:	5.4 MPH
Soil Moisture:	MOIST
% Cloud Cover:	20

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CUMHY, PRE
Stage Scale:	.
Height, Unit:	0. .
Crop 2 Code, Stage:	CUMSA, PRE
Stage Scale:	.
Height, Unit:	0. .
Crop 3 Code, Stage:	CUUPE, PRE
Stage Scale:	.
Height, Unit:	0. .

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	AGRASS, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 2 Code, Stage:	AMAXX, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 3 Code, Stage:	CIRAR, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 4 Code, Stage:	CYPES, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 5 Code, Stage:	POROL, PRE
Stage Scale:	.
Density, Unit:	. .

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CURCURBITS - WEED CONTROL AND CROP TOLERANCE IN DIRECT-SEEDED APPLICATIONS

Trial ID: CURCURTRIAL208
Location: Wooster, Ohio

Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	40
Nozzle Type:	FLAT FAN
Nozzle Size:	8002VS
Nozzle Spacing, Unit:	15 IN
Nozzles/Row:	4
Band Width, Unit:	5 FT
Boom Height, Unit:	18 IN
Ground Speed, Unit:	3 MPH
Spray Volume, Unit:	25 GPA
Propellant:	CO2

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CURCURBITS - WEED CONTROL AND CROP TOLERANCE IN DIRECT- SEEDED APPLICATIONS

Trial ID: CURCURTRIAL2UI2008
Location: Wooster, Ohio

Weed Code						AGRASS	AMAXX	POROL
Crop Code				CURCURB	CURCURB	CURCURB	CURCURB	CURCURB
Part Rated				PLANT	PLANT	WEED	WEED	WEED
Rating Data Type				CHLOROSIS	STUNT	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/30/08	7/30/08	7/30/08	7/30/08	7/30/08
Trt-Eval Interval				2 WATPRE	2 WATPRE	2 WATPRE	2 WATPRE	2 WATPRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
WEED FREE CONTROL CANTELOUPE				0	0	100	100	100
WEED FREE CONTROL PICKLE				0	0	100	100	100
WEED FREE CONTROL PUMPKIN				0	0	100	100	100
REFLEX CANTELOUPE	1.25	PT/A	PRE	0	39	99	99	99
REFLEX PICKLE	1.25	PT/A	PRE	0	43	99	99	99
REFLEX PUMPKIN	1.25	PT/A	PRE	0	14	99	99	99
REFLEX CANTELOUPE	2.5	PT/A	PRE	0	44	99	99	99
REFLEX PICKLE	2.5	PT/A	PRE	0	79	99	99	99
REFLEX PUMPKIN	2.5	PT/A	PRE	3	20	99	99	99
REFLEX + DUAL MAGNUM CANTELOUPE	1.25 12	PT/A OZ/A	PRE PRE	0	50	99	99	99
REFLEX + DUAL MAGNUM PICKLE	1.25 12	PT/A OZ/A	PRE PRE	0	70	99	99	99
REFLEX + DUAL MAGNUM PUMPKIN	1.25 12	PT/A OZ/A	PRE PRE	0	24	99	99	99
SANDEA+ STRATEGY CANTELOUPE	0.66 3.5	OZ/A PT/A	PRE PRE	0	25	99	99	99

The Ohio State University

CURCURBITS - WEED CONTROL AND CROP
TOLERANCE IN DIRECT- SEEDED APPLICATIONS

Trial ID: CURCURTRIAL2UI2008
Location: Wooster, Ohio

Weed Code						AGRASS	AMAXX	POROL
Crop Code				CURCURB	CURCURB	CURCURB	CURCURB	CURCURB
Part Rated				PLANT	PLANT	WEED	WEED	WEED
Rating Data Type				CHLOROSIS	STUNT	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/30/08	7/30/08	7/30/08	7/30/08	7/30/08
Trt-Eval Interval				2 WATPRE	2 WATPRE	2 WATPRE	2 WATPRE	2 WATPRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
SANDEA+ STRATEGY PICKLE	0.66 3.5	OZ/A PT/A	PRE PRE	0	35	99	99	99
SANDEA+ STRATEGY PUMPKIN	0.66 3.5	OZ/A PT/A	PRE PRE	0	18	99	99	99
LSD (P=.05)				2	29	0	0	0
Standard Deviation				1	21	0	0	0
CV				775	67	0	0	0

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CURCURBITS - WEED CONTROL AND CROP TOLERANCE IN DIRECT- SEEDED APPLICATIONS

Trial ID: CURCURTRIAL2UI2008
Location: Wooster, Ohio

Weed Code				CIRAR	CYPES			AGRASS
Crop Code				CURCURB	CURCURB	CURCURB	CURCURB	CURCURB
Part Rated				WEED	WEED	PLANT	PLANT	WEED
Rating Data Type				CONTROL	CONTROL	CHLOROSIS	STUNT	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/30/08	7/30/08	8/13/08	8/13/08	8/13/08
Trt-Eval Interval				2 WATPRE	2 WATPRE	4 WATPRE	4 WATPRE	4 WATPRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
WEED FREE CONTROL CANTELOUPE				100	100	0	0	100
WEED FREE CONTROL PICKLE				100	100	0	0	100
WEED FREE CONTROL PUMPKIN				100	100	0	0	100
REFLEX CANTELOUPE	1.25	PT/A	PRE	0	95	0	25	99
REFLEX PICKLE	1.25	PT/A	PRE	0	95	0	33	99
REFLEX PUMPKIN	1.25	PT/A	PRE	0	95	0	0	99
REFLEX CANTELOUPE	2.5	PT/A	PRE	0	95	0	40	99
REFLEX PICKLE	2.5	PT/A	PRE	0	95	0	70	99
REFLEX PUMPKIN	2.5	PT/A	PRE	0	95	0	0	99
REFLEX + DUAL MAGNUM CANTELOUPE	1.25 12	PT/A OZ/A	PRE PRE	0	95	0	60	99
REFLEX + DUAL MAGNUM PICKLE	1.25 12	PT/A OZ/A	PRE PRE	0	95	0	45	99
REFLEX + DUAL MAGNUM PUMPKIN	1.25 12	PT/A OZ/A	PRE PRE	0	95	0	5	99
SANDEA+ STRATEGY CANTELOUPE	0.66 3.5	OZ/A PT/A	PRE PRE	0	95	0	4	99

The Ohio State University

CURCURBITS - WEED CONTROL AND CROP
TOLERANCE IN DIRECT- SEEDED APPLICATIONS

Trial ID: CURCURTRIAL2UI2008
Location: Wooster, Ohio

Weed Code				CIRAR	CYPES			AGRASS
Crop Code				CURCURB	CURCURB	CURCURB	CURCURB	CURCURB
Part Rated				WEED	WEED	PLANT	PLANT	WEED
Rating Data Type				CONTROL	CONTROL	CHLOROSIS	STUNT	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/30/08	7/30/08	8/13/08	8/13/08	8/13/08
Trt-Eval Interval				2 WATPRE	2 WATPRE	4 WATPRE	4 WATPRE	4 WATPRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
SANDEA+ STRATEGY PICKLE	0.66 3.5	OZ/A PT/A	PRE PRE	0	95	0	13	99
SANDEA+ STRATEGY PUMPKIN	0.66 3.5	OZ/A PT/A	PRE PRE	0	95	0	13	99
LSD (P=.05)				0	0	0	24	0
Standard Deviation				0	0	0	17	0
CV				0	0	0	83	0

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CURCURBITS - WEED CONTROL AND CROP TOLERANCE IN DIRECT- SEEDED APPLICATIONS

Trial ID: CURCURTRIAL2UI2008
Location: Wooster, Ohio

Weed Code				AMAXX	POROL	CIRAR	CYPES	
Crop Code				CURCURB	CURCURB	CURCURB	CURCURB	CURCURB
Part Rated				WEED	WEED	WEED	WEED	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				8/13/08	8/13/08	8/13/08	8/13/08	8/27/08
Trt-Eval Interval				4 WATPRE	4 WATPRE	4 WATPRE	4 WATPRE	6WATPRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
WEED FREE CONTROL CANTELOUPE				100	100	100	100	0
WEED FREE CONTROL PICKLE				100	100	100	100	0
WEED FREE CONTROL PUMPKIN				100	100	100	100	0
REFLEX CANTELOUPE	1.25	PT/A	PRE	99	99	0	44	0
REFLEX PICKLE	1.25	PT/A	PRE	99	99	0	44	0
REFLEX PUMPKIN	1.25	PT/A	PRE	99	99	0	44	0
REFLEX CANTELOUPE	2.5	PT/A	PRE	99	99	25	24	0
REFLEX PICKLE	2.5	PT/A	PRE	99	99	25	24	0
REFLEX PUMPKIN	2.5	PT/A	PRE	99	99	25	24	0
REFLEX + DUAL MAGNUM CANTELOUPE	1.25 12	PT/A OZ/A	PRE PRE	99	99	50	71	0
REFLEX + DUAL MAGNUM PICKLE	1.25 12	PT/A OZ/A	PRE PRE	99	99	50	71	0
REFLEX + DUAL MAGNUM PUMPKIN	1.25 12	PT/A OZ/A	PRE PRE	99	99	50	71	0
SANDEA+ STRATEGY CANTELOUPE	0.66 3.5	OZ/A PT/A	PRE PRE	99	99	25	90	0

The Ohio State University

CURCURBITS - WEED CONTROL AND CROP
TOLERANCE IN DIRECT- SEEDED APPLICATIONS

Trial ID: CURCURTRIAL2UI2008
Location: Wooster, Ohio

Weed Code				AMAXX	POROL	CIRAR	CYPES	
Crop Code				CURCURB	CURCURB	CURCURB	CURCURB	CURCURB
Part Rated				WEED	WEED	WEED	WEED	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				8/13/08	8/13/08	8/13/08	8/13/08	8/27/08
Trt-Eval Interval				4 WATPRE	4 WATPRE	4 WATPRE	4 WATPRE	6WATPRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
SANDEA+ STRATEGY PICKLE	0.66 3.5	OZ/A PT/A	PRE PRE	99	99	25	90	0
SANDEA+ STRATEGY PUMPKIN	0.66 3.5	OZ/A PT/A	PRE PRE	99	99	25	90	0
LSD (P=.05)				0	0	49	43	0
Standard Deviation				0	0	35	30	0
CV				0	0	87	46	0

The Ohio State University

CURCURBITS - WEED CONTROL AND CROP TOLERANCE IN DIRECT- SEEDED APPLICATIONS

Trial ID: CURCURTRIAL2UI2008
Location: Wooster, Ohio

Weed Code					AGRASS	AMAXX	POROL	CIRAR
Crop Code				CURCURB	CURCURB	CURCURB	CURCURB	CURCURB
Part Rated				PLANT	WEED	WEED	WEED	WEED
Rating Data Type				STUNT	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/27/08	8/27/08	8/27/08	8/27/08	8/27/08
Trt-Eval Interval				6WATPRE	6WATPRE	6WATPRE	6WATPRE	6WATPRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	16	17	18	19	20
WEED FREE CONTROL CANTELOUPE				0	100	100	100	100
WEED FREE CONTROL PICKLE				0	100	100	100	100
WEED FREE CONTROL PUMPKIN				0	100	100	100	100
REFLEX CANTELOUPE	1.25	PT/A	PRE	8	70	97	87	50
REFLEX PICKLE	1.25	PT/A	PRE	23	70	97	87	50
REFLEX PUMPKIN	1.25	PT/A	PRE	0	70	97	87	50
REFLEX CANTELOUPE	2.5	PT/A	PRE	30	91	99	91	74
REFLEX PICKLE	2.5	PT/A	PRE	65	91	99	91	74
REFLEX PUMPKIN	2.5	PT/A	PRE	0	91	99	91	74
REFLEX + DUAL MAGNUM CANTELOUPE	1.25 12	PT/A OZ/A	PRE PRE	55	98	99	88	97
REFLEX + DUAL MAGNUM PICKLE	1.25 12	PT/A OZ/A	PRE PRE	48	98	99	88	97
REFLEX + DUAL MAGNUM PUMPKIN	1.25 12	PT/A OZ/A	PRE PRE	0	98	99	88	97
SANDEA+ STRATEGY CANTELOUPE	0.66 3.5	OZ/A PT/A	PRE PRE	0	98	94	96	70

The Ohio State University

CURCURBITS - WEED CONTROL AND CROP TOLERANCE IN DIRECT- SEEDED APPLICATIONS

Trial ID: CURCURTRIAL2UI2008
Location: Wooster, Ohio

Weed Code					AGRASS	AMAXX	POROL	CIRAR
Crop Code				CURCURB	CURCURB	CURCURB	CURCURB	CURCURB
Part Rated				PLANT	WEED	WEED	WEED	WEED
Rating Data Type				STUNT	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/27/08	8/27/08	8/27/08	8/27/08	8/27/08
Trt-Eval Interval				6WATPRE	6WATPRE	6WATPRE	6WATPRE	6WATPRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	16	17	18	19	20
SANDEA+ STRATEGY PICKLE	0.66 3.5	OZ/A PT/A	PRE PRE	5	98	94	96	70
SANDEA+ STRATEGY PUMPKIN	0.66 3.5	OZ/A PT/A	PRE PRE	1	98	94	96	70
LSD (P=.05)				24	6	6	10	44
Standard Deviation				17	4	4	7	31
CV				108	5	4	7	39

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CURCURBITS - WEED CONTROL AND CROP TOLERANCE IN DIRECT- SEEDED APPLICATIONS

Trial ID: CURCURTRIAL2UI2008
Location: Wooster, Ohio

Weed Code				CYPES				
Crop Code				CURCURB	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated				WEED	PLANTS	FRUIT	FRUIT	FRUIT
Rating Data Type				CONTROL	TOTAL NO	YIELD	YIELD	YIELD
Rating Unit				%	PER PLOT	NO/PLOT	LBS/PLOT	NO/PLOT
Rating Date				8/27/08	9/4/08	9/4/08	9/4/08	9/4/08
Trt-Eval Interval				6WATPRE	PREHARV	HARVEST1	HARVEST1	HARVEST2
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	21	22	23	24	25
WEED FREE CONTROL CANTELOUPE				100	.	.	.	.
WEED FREE CONTROL PICKLE				100	8	3	0	9
WEED FREE CONTROL PUMPKIN				100	.	.	.	.
REFLEX CANTELOUPE	1.25	PT/A	PRE	70	.	.	.	.
REFLEX PICKLE	1.25	PT/A	PRE	70	7	1	0	9
REFLEX PUMPKIN	1.25	PT/A	PRE	70	.	.	.	.
REFLEX CANTELOUPE	2.5	PT/A	PRE	58	.	.	.	.
REFLEX PICKLE	2.5	PT/A	PRE	58	2	0	0	2
REFLEX PUMPKIN	2.5	PT/A	PRE	58	.	.	.	.
REFLEX + DUAL MAGNUM CANTELOUPE	1.25 12	PT/A OZ/A	PRE PRE	88	.	.	.	.
REFLEX + DUAL MAGNUM PICKLE	1.25 12	PT/A OZ/A	PRE PRE	88	4	0	0	6
REFLEX + DUAL MAGNUM PUMPKIN	1.25 12	PT/A OZ/A	PRE PRE	88	.	.	.	.
SANDEA+ STRATEGY CANTELOUPE	0.66 3.5	OZ/A PT/A	PRE PRE	94	.	.	.	.

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CURCURBITS - WEED CONTROL AND CROP
TOLERANCE IN DIRECT- SEEDED APPLICATIONS

Trial ID: CURCURTRIAL2UI2008
Location: Wooster, Ohio

Weed Code				CYPES				
Crop Code				CURCURB	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated				WEED	PLANTS	FRUIT	FRUIT	FRUIT
Rating Data Type				CONTROL	TOTAL NO	YIELD	YIELD	YIELD
Rating Unit				%	PER PLOT	NO/PLOT	LBS/PLOT	NO/PLOT
Rating Date				8/27/08	9/4/08	9/4/08	9/4/08	9/4/08
Trt-Eval Interval				6WATPRE	PREHARV	HARVEST1	HARVEST1	HARVEST2
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	21	22	23	24	25
SANDEA+ STRATEGY PICKLE	0.66 3.5	OZ/A PT/A	PRE PRE	94	6	2	0	10
SANDEA+ STRATEGY PUMPKIN	0.66 3.5	OZ/A PT/A	PRE PRE	94	.	.	.	.
LSD (P=.05)				22	4	2	0	5
Standard Deviation				16	3	1	0	3
CV				19	47	124	136	45

The Ohio State University

CURCURBITS - WEED CONTROL AND CROP TOLERANCE IN DIRECT- SEEDED APPLICATIONS

Trial ID: CURCURTRIAL2UI2008
Location: Wooster, Ohio

Weed Code								
Crop Code				CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				YIELD	YIELD	YIELD	YIELD	YIELD
Rating Unit				LBS/PLOT	NO/PLOT	LBS/PLOT	NO/PLOT	LBS/PLOT
Rating Date				9/4/08	9/12/08	9/12/08	9/19/08	9/19/08
Trt-Eval Interval				HARVEST2	HARVEST3	HARVEST3	HARVEST4	HARVEST4
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	26	27	28	29	30
WEED FREE CONTROL CANTELOUPE				.	.	.	.	.
WEED FREE CONTROL PICKLE				1.6	8	1.1	8	1.3
WEED FREE CONTROL PUMPKIN				.	.	.	.	.
REFLEX CANTELOUPE	1.25	PT/A	PRE	.	.	.	.	.
REFLEX PICKLE	1.25	PT/A	PRE	1.2	11	1.6	10	1.9
REFLEX PUMPKIN	1.25	PT/A	PRE	.	.	.	.	.
REFLEX CANTELOUPE	2.5	PT/A	PRE	.	.	.	.	.
REFLEX PICKLE	2.5	PT/A	PRE	0.1	5	1.1	6	1.0
REFLEX PUMPKIN	2.5	PT/A	PRE	.	.	.	.	.
REFLEX + DUAL MAGNUM CANTELOUPE	1.25 12	PT/A OZ/A	PRE PRE	.	.	.	.	.
REFLEX + DUAL MAGNUM PICKLE	1.25 12	PT/A OZ/A	PRE PRE	0.7	9	1.2	6	1.2
REFLEX + DUAL MAGNUM PUMPKIN	1.25 12	PT/A OZ/A	PRE PRE	.	.	.	.	.
SANDEA+ STRATEGY CANTELOUPE	0.66 3.5	OZ/A PT/A	PRE PRE	.	.	.	.	.

The Ohio State University

CURCURBITS - WEED CONTROL AND CROP
TOLERANCE IN DIRECT- SEEDED APPLICATIONS

Trial ID: CURCURTRIAL2UI2008
Location: Wooster, Ohio

Weed Code								
Crop Code				CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				YIELD	YIELD	YIELD	YIELD	YIELD
Rating Unit				LBS/PLOT	NO/PLOT	LBS/PLOT	NO/PLOT	LBS/PLOT
Rating Date				9/4/08	9/12/08	9/12/08	9/19/08	9/19/08
Trt-Eval Interval				HARVEST2	HARVEST3	HARVEST3	HARVEST4	HARVEST4
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	26	27	28	29	30
SANDEA+ STRATEGY PICKLE	0.66 3.5	OZ/A PT/A	PRE PRE	1.4	9	1.7	9	1.3
SANDEA+ STRATEGY PUMPKIN	0.66 3.5	OZ/A PT/A	PRE PRE	.	.	.	.	.
LSD (P=.05)				1	6	1	6	1
Standard Deviation				1	4	1	4	1
CV				53	48	58	51	63

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CURCURBITS - WEED CONTROL AND CROP TOLERANCE IN DIRECT- SEEDED APPLICATIONS

Trial ID: CURCURTRIAL2UI2008
Location: Wooster, Ohio

Weed Code				CUMSA	CUMHY	CUMHY	CUMHY	CUUPE
Crop Code				FRUIT	PLANTS	FRUIT	FRUIT	PLANTS
Part Rated				TTL YIELD	TOTAL NO	MKTB NO	MKTB WT	TOTAL NO
Rating Data Type				WT/LBS	PER PLOT	PER PLOT	LBS/PLOT	PER PLOT
Rating Unit				9/19/08	10/7/08	10/7/08	10/7/08	10/7/08
Rating Date				HARVEST	PREHARV	HARVEST	HARVEST	PREHARV
Trt-Eval Interval								
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	31	32	33	34	37
WEED FREE CONTROL CANTELOUPE				.	3	4	9.3	.
WEED FREE CONTROL PICKLE				4.4	.	.	.	.
WEED FREE CONTROL PUMPKIN				.				6
REFLEX CANTELOUPE	1.25	PT/A	PRE	.	5	4	7.7	.
REFLEX PICKLE	1.25	PT/A	PRE	4.9	.	.	.	.
REFLEX PUMPKIN	1.25	PT/A	PRE	.				5
REFLEX CANTELOUPE	2.5	PT/A	PRE	.	4	3	5.8	.
REFLEX PICKLE	2.5	PT/A	PRE	2.2	.	.	.	.
REFLEX PUMPKIN	2.5	PT/A	PRE	.	.	.	.	4
REFLEX + DUAL MAGNUM CANTELOUPE	1.25 12	PT/A OZ/A	PRE PRE	.	1	1	2.7	.
REFLEX + DUAL MAGNUM PICKLE	1.25 12	PT/A OZ/A	PRE PRE	3.1	.	.	.	.
REFLEX + DUAL MAGNUM PUMPKIN	1.25 12	PT/A OZ/A	PRE PRE	.	.	.	.	8
SANDEA+ STRATEGY CANTELOUPE	0.66 3.5	OZ/A PT/A	PRE PRE	.	6	5	11.8	.

The Ohio State University

CURCURBITS - WEED CONTROL AND CROP
TOLERANCE IN DIRECT- SEEDED APPLICATIONS

Trial ID: CURCURTRIAL2UI2008
Location: Wooster, Ohio

Weed Code								
Crop Code				CUMSA	CUMHY	CUMHY	CUMHY	CUUPE
Part Rated				FRUIT	PLANTS	FRUIT	FRUIT	PLANTS
Rating Data Type				TTL YIELD	TOTAL NO	MKTB NO	MKTB WT	TOTAL NO
Rating Unit				WT/LBS	PER PLOT	PER PLOT	LBS/PLOT	PER PLOT
Rating Date				9/19/08	10/7/08	10/7/08	10/7/08	10/7/08
Trt-Eval Interval				HARVEST	PREHARV	HARVEST	HARVEST	PREHARV
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	31	32	33	34	37
SANDEA+ STRATEGY PICKLE	0.66 3.5	OZ/A PT/A	PRE PRE	4.7	.	.	.	.
SANDEA+ STRATEGY PUMPKIN	0.66 3.5	OZ/A PT/A	PRE PRE	.	.	.	.	8
LSD (P=.05)				3	2	2	5	4
Standard Deviation				2	1	1	3	3
CV				46	31	34	43	45

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CURCURBITS - WEED CONTROL AND CROP TOLERANCE IN DIRECT- SEEDED APPLICATIONS

Trial ID: CURCURTRIAL2UI2008
Location: Wooster, Ohio

Weed Code					
Crop Code				CUUPE	CUUPE
Part Rated				FRUIT	FRUIT
Rating Data Type				MKTB NO	MKTB WT
Rating Unit				PER PLOT	LBS/PLOT
Rating Date				10/7/08	10/7/08
Trt-Eval Interval				HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	38	39
WEED FREE CONTROL CANTELOUPE				.	.
WEED FREE CONTROL PICKLE				.	.
WEED FREE CONTROL PUMPKIN				11	29.2
REFLEX CANTELOUPE	1.25	PT/A	PRE	.	.
REFLEX PICKLE	1.25	PT/A	PRE	.	.
REFLEX PUMPKIN	1.25	PT/A	PRE	16	36.0
REFLEX CANTELOUPE	2.5	PT/A	PRE	.	.
REFLEX PICKLE	2.5	PT/A	PRE	.	.
REFLEX PUMPKIN	2.5	PT/A	PRE	12	30.6
REFLEX + DUAL MAGNUM CANTELOUPE	1.25 12	PT/A OZ/A	PRE PRE	.	.
REFLEX + DUAL MAGNUM PICKLE	1.25 12	PT/A OZ/A	PRE PRE	.	.
REFLEX + DUAL MAGNUM PUMPKIN	1.25 12	PT/A OZ/A	PRE PRE	18	38.4
SANDEA+ STRATEGY CANTELOUPE	0.66 3.5	OZ/A PT/A	PRE PRE	.	.

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CURCURBITS - WEED CONTROL AND CROP
TOLERANCE IN DIRECT- SEEDED APPLICATIONS

Trial ID: CURCURTRIAL2UI2008
Location: Wooster, Ohio

Weed Code					
Crop Code				CUUPE	CUUPE
Part Rated				FRUIT	FRUIT
Rating Data Type				MKTB NO	MKTB WT
Rating Unit				PER PLOT	LBS/PLOT
Rating Date				10/7/08	10/7/08
Trt-Eval Interval				HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	38	39
SANDEA+ STRATEGY PICKLE	0.66 3.5	OZ/A PT/A	PRE PRE	.	.
SANDEA+ STRATEGY PUMPKIN	0.66 3.5	OZ/A PT/A	PRE PRE	15	33.4
LSD (P=.05)				7	11
Standard Deviation				4	7
CV				30	22

The Ohio State University

GREEN ASH - HARDWOOD BRUSH CONTROL WITH KJM 44 (2007-2008)

Trial ID: GRASHKJM440708
Location: Wooster, Ohio

Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Objective: To evaluate rates of KJM-44 for industrial brush control.

<u>Trial Summary</u>: This trial evaluates six rates of KJM 44 for hardwood brush control, along with one rate each of Arsenal (28.7 EC), Escort XP (60 WG) and Krenite S. These herbicides were sprayed broadcast on green ash seedlings in June 2007. All treatments in the trial provided 100% kill one year later.

TRIAL LOCATION

City: Wooster
State/Prov.: Ohio
Postal Code: 44691
Country: USA

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 06/26/07
Planned Completion Date: 06/26/08

Crop 1: FRXPS ASH
Planting Method: NATURAL SEEDING
Perennial Age: 3 YRS

Variety: GREEN

SITE AND DESIGN

Plot Width, Unit: 10 FT
Site Type: FIELD
Tillage Type: NONE

Plot Length, Unit: 10 FT
Reps: 4
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 11	% OM: 3.0	Texture: SILT LOAM
% Silt: 75	pH: 6.0	Soil Name: WOOSTER SILT LOAM
% Clay: 14	CEC: 12	Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A
Application Date:	6/26/2007
Time of Day:	10-11 AM
Application Method:	SPRAY
Application Timing:	POST
Applic. Placement:	DIRECTED
Air Temp., Unit:	82.6 F
% Relative Humidity:	64.8
Wind Velocity, Unit:	1 MPH
Soil Moisture:	DRY
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	FRXPS, POST
Stage Scale:	VEGETATIVE
Height, Unit:	3 FT

The Ohio State University

GREEN ASH - HARDWOOD BRUSH CONTROL WITH KJM 44 (2007-2008)

Trial ID: GRASHKJM440708 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	35
Nozzle Type:	FLAT FAN
Nozzle Size:	8003EVS
Nozzle Spacing, Unit:	1
Band Width, Unit:	24 IN
Spray Volume, Unit:	25 GPA
Propellant:	CO2

The Ohio State University

GREEN ASH - HARDWOOD BRUSH CONTROL WITH KJM 44 (2007-2008)

Trial ID: GRASHKJM440708
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code							
Crop Code				FRXPS	FRXPS	FRXPS	FRXPS
Part Rated				LEAVES	LEAVES	LEAVES	LEAVES
Rating Data Type				INJURY	CHLOROSIS	INJURY	CHLOROSIS
Rating Unit				%	%	%	%
Rating Date				7/26/07	7/26/07	9/26/07	9/26/07
Trt-Eval Interval				30 DAT	30 DAT	90 DAT	90 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4
UNTREATED CONTROL				0	0	0	0
KJM 44+	70	G A/HA	POST	81	0	100	0
MSO	2	PT/A	POST				
KJM 44+	140	G A/HA	POST	88	0	100	0
MSO	2	PT/A	POST				
KJM 44+	210	G A/HA	POST	69	8	100	0
MSO	2	PT/A	POST				
KJM 44+	245	G A/HA	POST	80	25	100	0
MSO	2	PT/A	POST				
KJM 44+	280	G A/HA	POST	85	28	100	0
MSO	2	PT/A	POST				
KJM 44+	350	G A/HA	POST	60	16	100	0
MSO	2	PT/A	POST				
ARSENAL+	840	G A/HA	POST	50	4	100	0
MSO	2	PT/A	POST				
ESCORT+	84	G A/HA	POST	99	0	100	0
MSO	2	PT/A	POST				
KRENITE S+	6700	G A/HA	POST	16	4	100	0
MSO	2	PT/A	POST				
LSD (P=.05)				25	23	0	0
Standard Deviation				17	16	0	0
CV				27	186	0	0

The Ohio State University

GREEN ASH - HARDWOOD BRUSH CONTROL WITH KJM 44 (2007-2008)

Trial ID: GRASHKJM440708
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code							
Crop Code				FRXPS	FRXPS	FRXPS	FRXPS
Part Rated				LEAVES	BUD	BUD	BUD
Rating Data Type				LEAF FALL	KILL	INJURY	INJURY
Rating Unit				%	%	%	%
Rating Date				9/26/07	5/13/08	5/30/08	6/26/08
Trt-Eval Interval				90 DAT	323 DAT	338 DAT	365 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	5	6	7	8
UNTREATED CONTROL				53	0	0	0
KJM 44+	70	G A/HA	POST	99	100	100	100
MSO	2	PT/A	POST				
KJM 44+	140	G A/HA	POST	98	100	100	100
MSO	2	PT/A	POST				
KJM 44+	210	G A/HA	POST	96	100	100	100
MSO	2	PT/A	POST				
KJM 44+	245	G A/HA	POST	96	100	100	100
MSO	2	PT/A	POST				
KJM 44+	280	G A/HA	POST	79	100	100	100
MSO	2	PT/A	POST				
KJM 44+	350	G A/HA	POST	66	100	100	100
MSO	2	PT/A	POST				
ARSENAL+	840	G A/HA	POST	83	100	100	100
MSO	2	PT/A	POST				
ESCORT+	84	G A/HA	POST	64	100	100	100
MSO	2	PT/A	POST				
KRENITE S+	6700	G A/HA	POST	99	100	100	100
MSO	2	PT/A	POST				
LSD (P=.05)				19	0	0	0
Standard Deviation				13	0	0	0
CV				15	0	0	0

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GREEN ASH - HARDWOOD BRUSH CONTROL WITH KJM44/MAT28; (2008-2009)

Trial ID: GRASHKJM440809 Study Dir.: Doug Doohan and T.Koch
Location: Wooster, Ohio Investigator: Doug Doohan

Objective: To evaluate rates of KJM44/MAT28 for industrial brush control.

Trial Summary: This trial evaluated low to medium rates of KJM44/MAT28* in combination with Escort Krenite, and Imazapyr (low rate) for industrial brush control. This is an ongoing trial and additional evaluation will be conducted in 2009. All treatments to date killed the growing point of the green ash seedling. he highest amount of defoliation was with Arsenal plus Escort.

TRIAL LOCATION

City: Wooster
State/Prov.: Ohio
Postal Code: 44691
Country: USA

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 07/01/08
Planned Completion Date: 07/01/09

Crop 1: FRXPS ASH Variety: GREEN
Planting Method: NATURAL SEEDING
Perennial Age: 3 YRS

SITE AND DESIGN

Plot Width, Unit: 10 FT
Site Type: FIELD
Tillage Type: NONE

Plot Length, Unit: 10 FT
Reps: 4
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 11	% OM: 3.0	Texture: SILT LOAM
% Silt: 75	pH: 6.0	Soil Name: WOOSTER SILT LOAM
% Clay: 14	CEC: 12	Fert. Level: MODERATE

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	FRXPS, POST
Stage Scale:	FULL LEAF
Height, Unit:	3 FT

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	35
Nozzle Type:	FLAT FAN
Nozzle Size:	8003EVS
Nozzle Spacing, Unit:	1
Band Width, Unit:	24 IN
Spray Volume, Unit:	25 GPA
Propellant:	CO2

The Ohio State University

GREEN ASH - HARDWOOD BRUSH CONTROL
WITH KJM44 /MAT28; (2008-2009)

Trial ID: GRASHKJM440809
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

Weed Code							
Crop Code				FRXPS	FRXPS	FRXPS	FRXPS
Part Rated				LEAVES	LEAVES	LEAVES	LEAVES
Rating Data Type				INJURY	CHLOROSIS	LOST	LEFT
Rating Unit				%	%	%	%
Rating Date				8/11/08	8/11/08	10/1/08	10/1/08
Trt-Eval Interval				45 DAT	45 DAT	90 DAT	90 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4
UNTREATED CONTROL				0	0	28	73
KJM44*	35.4	G/A	POST	8	11	54	46
MSO	2	PT/A	POST				
KJM44*	71	G/A	POST	76	13	78	23
MSO	2	PT/A	POST				
KJM44*	106	G/A	POST	49	34	76	24
MSO	2	PT/A	POST				
KJM44*	35.4	G/A	POST	88	15	48	52
ESCORT	56.7	G/A	POST				
MSO	2	PT/A	POST				
KJM44*	71	G/A	POST	93	0	89	8
ESCORT	56.7	G/A	POST				
MSO	2	PT/A	POST				
KJM44*	35.4	G/A	POST	10	8	63	37
ARSENAL	3540	G/A	POST				
MSO	2	PT/A	POST				
KJM44*	71	G/A	POST	14	24	38	63
ARSENAL	3540	G/A	POST				
MSO	2	PT/A	POST				
KJM44*	35.4	G/A	POST	13	30	69	31
KRENITE S	12	PT/A	POST				
MSO	2	PT/A	POST				
KJM44*	71	G/A	POST	25	41	95	5
KRENITE S	12	PT/A	POST				
MSO	2	PT/A	POST				
LSD (P=.05)				30	32	43	43
Standard Deviation				21	22	30	30
CV				55	125	47	83

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GREEN ASH - HARDWOOD BRUSH CONTROL
WITH KJM44/MAT28; (2008-2009)

Trial ID: GRASHKJM440809
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

Weed Code				FRXPS	FRXPS	FRXPS	FRXPS
Crop Code				FRXPS	FRXPS	FRXPS	FRXPS
Part Rated				LEAVES	LEAVES	LEAVES	LEADER
Rating Data Type				LEFT GREEN	LEFT YELLOW	REMAIN DEAD	DEAD
Rating Unit				%	%	%	%
Rating Date				10/1/08	10/1/08	10/1/08	10/1/08
Trt-Eval Interval				90 DAT	90 DAT	90 DAT	90 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	5	6	7	8
UNTREATED CONTROL				53	9	11	0
KJM44*	35.4	G/A	POST	25	9	36	100
MSO	2	PT/A	POST				
KJM44*	71	G/A	POST	1	1	54	100
MSO	2	PT/A	POST				
KJM44*	106	G/A	POST	0	0	75	100
MSO	2	PT/A	POST				
KJM44*	35.4	G/A	POST	0	0	100	100
ESCORT+	56.7	G/A	POST				
MSO	2	PT/A	POST				
KJM44*	71	G/A	POST	0	0	50	100
ESCORT+	56.7	G/A	POST				
MSO	2	PT/A	POST				
KJM44*	35.4	G/A	POST	14	16	31	100
ARSENAL+	3540	G/A	POST				
MSO	2	PT/A	POST				
KJM44*	71	G/A	POST	0	3	98	100
ARSENAL+	3540	G/A	POST				
MSO	2	PT/A	POST				
KJM44*	35.4	G/A	POST	19	6	30	100
KRENITE S+	12	PT/A	POST				
MSO	2	PT/A	POST				
KJM44*	71	G/A	POST	25	0	25	100
KRENITE S+	12	PT/A	POST				
MSO	2	PT/A	POST				
LSD (P=.05)				31	15	64	0
Standard Deviation				21	10	44	0
CV				154	231	86	0

The Ohio State University

GREEN ONIONS- WEED CONTROL AND CROP TOLERANCE WITH GOALTENDER AND PROWL H2O

Trial ID:GRONWCCTGOALPROWL2008 Study Dir.: Doug Doohan and T.Koch
Location: S.WILLARD, OHIO Investigator: Doug Doohan

Objective: Evaluate rates and timings of Goaltender and Prowl H2O in regards to crop safety and weed control.

<u>TRIAL SUMMARY</u>: Goaltender at 6 oz/A, (2X of the proposed labeled rate) provided the best overall weed control with the least amount of onion injury.

TRIAL LOCATION

City: South Willard Trial Status: Final
State/Prov.: Ohio Trial Reliability: Reliable
Postal Code: 44890 Initiation Date: 08/01/08
Country: USA Planned Completion Date: 10/30/08

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	AMABL	prostrate pigweed	*Amaranthus blitoides S.Wats*
2	AMARE	redroot pigweed	*Amaranthus retroflexus L.*
3	AMAXX	pigweed species	*Amaranth spp.*
4	DIGSA	large crabgrass	*Digitaria sanguinalis (L.) Scop.*
5	GASCI	hairy galinsoga	*Galinsoga ciliata (Raf.) Blake*
6	POROL	common purslane	*Portulaca oleracea L.*

Crop 1: ALLCE GREEN ONION Variety: ISHIKURA
Planting Date: 08/01/08 Planting Method: CONVENTIONAL
Rate: 11 SEEDS/FOOT Depth: 0.5 IN
Row Spacing: 18 INCH Spacing Within Row: 2 INCH
Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 5 FT Plot Length, Unit: 15 FT
Site Type: LEVEL FIELD Reps: 4
Tillage Type: CONVENTIONAL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 64	% OM: 45.6	Texture: MUCK
% Silt: 31	pH: 5.5	Soil Name: LINWOOD MUCK
% Clay: 5	Fert. Level: HIGH	

The Ohio State University

GREEN ONIONS- WEED CONTROL AND CROP TOLERANCE WITH GOALTENDER AND PROWL H2O

Trial ID:GRONWCCTGOALPROWL2008 Study Dir.: Doug Doohan and T.Koch
Location: S.WILLARD, OHIO Investigator: Doug Doohan

APPLICATION DESCRIPTION

	A	B
Application Date:	8/1/2008	8/22/2008
Time of Day:	9 AM	9 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST 2 LF
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	72.5 F	75.8 F
% Relative Humidity:	77.7	69.1
Wind Velocity, Unit:	5.4 MPH	8.5 MPH
Soil Temp., Unit:	73.4 F	74.3 F
Soil Moisture:	DRY	DRY
% Cloud Cover:	50	0

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ALLCE, PRE	ALLCE, POST
Stage Scale:	.	2 LEAF
Height, Unit:	.	3 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	AMABL, PRE	AMABL, POST
Stage Scale:	.	2.5 IN
Density, Unit:	. .	HIGH, PLOT
Weed 2 Code, Stage:	AMARE, PRE	AMARE, POST
Stage Scale:	.	2.5 IN
Density, Unit:	. .	HIGH , PLOT
Weed 3 Code, Stage:	AMAXX, PRE	AMAXX, POST
Stage Scale:	.	2.5 IN
Density, Unit:	. .	HIGH, PLOT
Weed 4 Code, Stage:	DIGSA, PRE	DIGSA, POST
Stage Scale:	.	3 IN
Density, Unit:	. .	LOW , PLOT
Weed 5 Code, Stage:	GASCI, PRE	GASCI, POST
Stage Scale:	.	3 IN
Density, Unit:	. .	LOW, PLOT
Weed 6 Code, Stage:	POROL , PRE	POROL, POST
Stage Scale:	.	4 IN DIAMETER
Density, Unit:	. .	HIGH, PLOT

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	40	40
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8002VS	8002VS
Nozzle Spacing, Unit:	15 INCH	15 INCH
Nozzles/Row:	4	4
Band Width, Unit:	60 INCH	60 INCH
Ground Speed, Unit:	3 MPH	3 MPH
Spray Volume, Unit:	25 GPA	25 GPA

The Ohio State University

GREEN ONIONS - WEED CONTROL AND CROP TOLERANCE WITH GOALTENDER AND PROWL H2O

Trial ID: GRONWCCTGOALPROWL2008
Location: South Willard, Ohio

Weed Code							AMAXX	POROL
Crop Code				ALLCE	ALLCE	ALLCE	ALLCE	ALLCE
Part Rated				PLANT	PLANT	PLANT	WEED	WEED
Rating Data Type				CHLOROSIS	BURN	STUNT	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/12/08	8/12/08	8/12/08	8/12/08	8/12/08
Trt-Eval Interval				2WATPRE	2WATPRE	2WATPRE	2WATPRE	2WATPRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
WEED FREE CONTROL				0	0	0	100	100
GOALTENDER	1	OZ/A	POST 2LF					
GOALTENDER	2	OZ/A	POST 2LF					
GOALTENDER	3	OZ/A	POST 2LF					
GOALTENDER	6	OZ/A	POST 2LF					
PROWL H2O+	2	PT/A	PRE	0	0	0	0	73
PROWL H2O	2	PT/A	POST 2LF					
PROWL H2O+	4	PT/A	PRE	0	0	0	0	85
PROWL H2O	4	PT/A	POST 2LF					
PROWL H2O+	2	PT/A	POST 2LF					
PROWL H2O	4	PT/A	POST 2LF					
LSD (P=.05)				0	0	0	0	5
Standard Deviation				0	0	0	0	3
CV				0	0	0	0	3

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GREEN ONIONS - WEED CONTROL AND CROP TOLERANCE WITH GOALTENDER AND PROWL H2O

Trial ID: GRONWCCTGOALPROWL2008
Location: South Willard, Ohio

Weed Code							AMAXX	POROL
Crop Code				ALLCE	ALLCE	ALLCE	ALLCE	ALLCE
Part Rated				PLANT	PLANT	PLANT	WEED	WEED
Rating Data Type				CHLOROSIS	BURN	STUNT	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/22/08	8/22/08	8/22/08	8/22/08	8/22/08
Trt-Eval Interval				3WATPRE	3WATPRE	3WATPRE	3WATPRE	3WATPRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
WEED FREE CONTROL				0	0	0	100	100
GOALTENDER	1	OZ/A	POST 2LF					
GOALTENDER	2	OZ/A	POST 2LF					
GOALTENDER	3	OZ/A	POST 2LF					
GOALTENDER	6	OZ/A	POST 2LF					
PROWL H2O+	2	PT/A	PRE	0	0	0	9	73
PROWL H2O	2	PT/A	POST 2LF					
PROWL H2O+	4	PT/A	PRE	0	0	0	20	85
PROWL H2O	4	PT/A	POST 2LF					
PROWL H2O+	2	PT/A	POST 2LF					
PROWL H2O	4	PT/A	POST 2LF					
LSD (P=.05)				0	0	0	27	22
Standard Deviation				0	0	0	16	13
CV				0	0	0	37	15

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GREEN ONIONS - WEED CONTROL AND CROP TOLERANCE WITH GOALTENDER AND PROWL H2O

Trial ID: GRONWCCTGOALPROWL2008
Location: South Willard, Ohio

Weed Code							AMAXX	POROL
Crop Code				ALLCE	ALLCE	ALLCE	ALLCE	ALLCE
Part Rated				PLANT	PLANT	PLANT	WEED	WEED
Rating Data Type				CHLOROSIS	BURN	STUNT	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/29/08	8/29/08	8/29/08	8/29/08	8/29/08
Trt-Eval Interval				1WATPOST	1WATPOST	1WATPOST	1WATPOST	1WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
WEED FREE CONTROL				0	0	0	100	100
GOALTENDER	1	OZ/A	POST 2LF	3	4	14	55	66
GOALTENDER	2	OZ/A	POST 2LF	11	5	18	70	76
GOALTENDER	3	OZ/A	POST 2LF	13	5	28	81	86
GOALTENDER	6	OZ/A	POST 2LF	33	6	43	86	93
PROWL H2O+	2	PT/A	PRE	0	0	6	43	55
PROWL H2O	2	PT/A	POST 2LF					
PROWL H2O+	4	PT/A	PRE	0	0	5	80	86
PROWL H2O	4	PT/A	POST 2LF					
PROWL H2O+	2	PT/A	POST 2LF	0	0	0	0	0
PROWL H2O	4	PT/A	POST 2LF	0	0	0	3	5
LSD (P=.05)				10	2	11	13	11
Standard Deviation				7	1	7	9	7
CV				103	53	58	15	12

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GREEN ONIONS - WEED CONTROL AND CROP TOLERANCE WITH GOALTENDER AND PROWL H2O

Trial ID: GRONWCCTGOALPROWL2008
Location: South Willard, Ohio

Weed Code							
Crop Code				ALLCE	ALLCE	ALLCE	ALLCE
Part Rated				WEED	PLANT	PLANT	PLANT
Rating Data Type				CONTROL	CHLOROSIS	BURN	STUNT
Rating Unit				%	%	%	%
Rating Date				8/29/08	9/12/08	9/12/08	9/12/08
Trt-Eval Interval				1WATPOST	3WATPOST	3WATPOST	3WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	16	17	18	19
WEED FREE CONTROL				100	0	0	0
GOALTENDER	1	OZ/A	POST 2LF	4	0	0	0
GOALTENDER	2	OZ/A	POST 2LF	10	0	0	0
GOALTENDER	3	OZ/A	POST 2LF	35	0	0	0
GOALTENDER	6	OZ/A	POST 2LF	31	0	0	0
PROWL H2O+	2	PT/A	PRE	0	0	0	0
PROWL H2O	2	PT/A	POST 2LF				
PROWL H2O+	4	PT/A	PRE	0	0	0	0
PROWL H2O	4	PT/A	POST 2LF				
PROWL H2O+	2	PT/A	POST 2LF	0	0	0	0
PROWL H2O	4	PT/A	POST 2LF	0	0	0	0
LSD (P=.05)				27	0	0	0
Standard Deviation				19	0	0	0
CV				93	0	0	0

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GREEN ONIONS - WEED CONTROL AND CROP TOLERANCE WITH GOALTENDER AND PROWL H2O

Trial ID: GRONWCCTGOALPROWL2008
Location: South Willard, Ohio

Weed Code				AMARE	AMABL	POROL	GASCI
Crop Code				ALLCE	ALLCE	ALLCE	ALLCE
Part Rated				WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%
Rating Date				9/12/08	9/12/08	9/12/08	9/12/08
Trt-Eval Interval				3WATPOST	3WATPOST	3WATPOST	3WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	20	21	22	23
WEED FREE CONTROL				75	75	75	75
GOALTENDER	1	OZ/A	POST 2LF	15	28	28	0
GOALTENDER	2	OZ/A	POST 2LF	38	38	50	13
GOALTENDER	3	OZ/A	POST 2LF	43	65	74	13
GOALTENDER	6	OZ/A	POST 2LF	75	80	84	0
PROWL H2O+	2	PT/A	PRE	0	15	18	0
PROWL H2O	2	PT/A	POST 2LF				
PROWL H2O+	4	PT/A	PRE	20	89	86	0
PROWL H2O	4	PT/A	POST 2LF				
PROWL H2O+	2	PT/A	POST 2LF	0	0	0	0
PROWL H2O	4	PT/A	POST 2LF	25	25	25	25
LSD (P=.05)				43	43	46	41
Standard Deviation				29	30	31	28
CV				91	65	65	200

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GREEN ONIONS - WEED CONTROL AND CROP TOLERANCE WITH GOALTENDER AND PROWL H2O

Trial ID: GRONWCCTGOALPROWL2008
Location: South Willard, Ohio

Weed Code					AMARE	AMABL	POROL
Crop Code				ALLCE	ALLCE	ALLCE	ALLCE
Part Rated				PLANT	WEED	WEED	WEED
Rating Data Type				STUNT	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%
Rating Date				10/3/08	10/3/08	10/3/08	10/3/08
Trt-Eval Interval				6WATPOST	6WATPOST	6WATPOST	6WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	24	25	26	27
WEED FREE CONTROL				75	75	75	75
GOALTENDER	1	OZ/A	POST 2LF	55	15	25	50
GOALTENDER	2	OZ/A	POST 2LF	48	40	38	75
GOALTENDER	3	OZ/A	POST 2LF	40	70	66	96
GOALTENDER	6	OZ/A	POST 2LF	25	95	78	100
PROWL H2O+	2	PT/A	PRE	73	0	13	43
PROWL H2O	2	PT/A	POST 2LF				
PROWL H2O+	4	PT/A	PRE	35	33	96	100
PROWL H2O	4	PT/A	POST 2LF				
PROWL H2O+	2	PT/A	POST 2LF	81	0	0	0
PROWL H2O	4	PT/A	POST 2LF	83	25	25	75
LSD (P=.05)				28	44	44	55
Standard Deviation				19	30	30	37
CV				34	77	65	55

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GREEN ONIONS - WEED CONTROL AND CROP TOLERANCE WITH GOALTENDER AND PROWL H2O

Trial ID: GRONWCCTGOALPROWL2008
Location: South Willard, Ohio

Weed Code				GASCI	DIGSA		
Crop Code				ALLCE	ALLCE	ALLCE	ALLCE
Part Rated				WEED	WEED	PLANT	PLANT
Rating Data Type				CONTROL	CONTROL	NO/PLOT	WT/PLOT
Rating Unit				%	%	EACH	LBS
Rating Date				10/3/08	10/3/08	10/3/08	10/3/08
Trt-Eval Interval				6WATPOST	6WATPOST	HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	28	29	30	31
WEED FREE CONTROL				3	25	265	5.2
GOALTENDER	1	OZ/A	POST 2LF	0	13	182	1.6
GOALTENDER	2	OZ/A	POST 2LF	0	0	199	2.1
GOALTENDER	3	OZ/A	POST 2LF	0	13	150	1.7
GOALTENDER	6	OZ/A	POST 2LF	0	23	201	2.9
PROWL H2O+	2	PT/A	PRE	0	46	198	1.1
PROWL H2O	2	PT/A	POST 2LF				
PROWL H2O+	4	PT/A	PRE	0	64	232	2.5
PROWL H2O	4	PT/A	POST 2LF				
PROWL H2O+	2	PT/A	POST 2LF	0	20	115	0.5
PROWL H2O	4	PT/A	POST 2LF	0	40	166	0.8
LSD (P=.05)				2	48	70	1
Standard Deviation				2	33	48	1
CV				600	123	25	30

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GREENS (BRASSICA) - WEED CONTROL AND CROP TOLERANCE WITH PRE HERBICIDES

Trial ID: GRBRASSWCCT 2008 Study Dir.: Doug Doohan and T. Koch
Location: South Willard, Ohio Investigator: Doug Doohan

Objective: To evaluate rates and timings of Dual Magnum, Spartan, Goaltender, and Prowl H2O for crop safety and weed control on collards and mustard greens.

TRIAL SUMMARY: Goaltender at 0.5 qt/A provided the best overall weed control with the least amount of injury to the crops.

TRIAL LOCATION

City: South Willard Trial Status: Final
State/Prov.: Ohio Trial Reliability: Reliable
Postal Code: 44890 Initiation Date: 08/01/08
Country: USA Planned Completion Date: 10/30/08

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	AMABL	prostrate pigweed	*Amaranthus blitoides S.Wats*
2	AMARE	redroot pigweed	*Amaranthus retroflexus L.*
3	AMAXX	pigweed species	*Amaranth spp.*
4	DIGSA	large crabgrass	*Digitaria sanguinalis (L.) Scop.*
5	GASCI	hairy galinsoga	*Galinsoga ciliata (Raf.) Blake*
6	POROL	common purslane	*Portulaca oleracea L.*

Crop 1: BRSOA COLLARD Variety: CHAMPION
Planting Date: 08/01/08 Planting Method: CONVENTIONAL
Rate: 12 SEEDS/FOOT Depth: 0.50 IN
Row Spacing: 18 INCH Spacing Within Row: 2 IN
Soil Moisture: DRY Emergence Date: 08/15/08
Seed Bed: CONVENTIONAL

Crop 2: MUSGN MUSTARD GREEN Variety: SOUTHERN GIANT CURLED
Planting Date: 08/01/08 Planting Method: CONVENTIONAL
Rate: 12 SEEDS/FOOT Depth: 0.50 IN
Row Spacing: 18 INCH Spacing Within Row: 2 IN
Soil Moisture: DRY Emergence Date: 08/15/08
Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 5 FT Plot Length, Unit: 15 FT
Site Type: LEVEL FIELD Reps: 4
Tillage Type: CONVENTIONAL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 64 % OM: 45.6 Texture: MUCK
% Silt: 31 pH: .5 Soil Name: LINWOOD MUCK
% Clay: 5 CEC: 69.9 Fert. Level: HIGH

The Ohio State University

GREENS (BRASSICA) - WEED CONTROL AND CROP TOLERANCE WITH PRE HERBICIDES

Trial ID: GRBRASSWCCT 2008 Study Dir.: Doug Doohan and T. Koch
Location: South Willard, Ohio Investigator: Doug Doohan

APPLICATION DESCRIPTION

	A	B
Application Date:	8/1/2008	8/22/2008
Time of Day:	9 AM	9 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST 2 LF
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	72.5 F	75.8 F
% Relative Humidity:	77.7	69.1
Wind Velocity, Unit:	5.4 MPH	8.5 MPH
Soil Temp., Unit:	73.4 F	74.3 F
Soil Moisture:	DRY	DRY
% Cloud Cover:	50	0

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	BRSOA, PRE	BRSOA, POST
Stage Scale:	.	5-6 LF
Height, Unit:	0. .	3 IN
Crop 2 Code, Stage:	MUSGN, PRE	MUSGN, POST
Stage Scale:	.	4 TRUE LF
Height, Unit:	0. .	3.5 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	AMABL, PRE	AMABL, POST
Stage Scale:	.	1 IN
Density, Unit:	. .	HIGH, PLOT
Weed 2 Code, Stage:	AMARE, PRE	AMARE, POST
Stage Scale:	.	1 IN
Density, Unit:	. .	HIGH, PLOT
Weed 3 Code, Stage:	AMAXX, PRE	AMAXX, POST
Stage Scale:	.	1 IN
Density, Unit:	. .	HIGH, PLOT
Weed 4 Code, Stage:	DIGSA, PRE	DIGSA, POST
Stage Scale:	.	1 IN
Density, Unit:	. .	HIGH, PLOT
Weed 5 Code, Stage:	GASCI, PRE	GASCI, POST
Stage Scale:	.	1 IN
Density, Unit:	. .	HIGH, PLOT
Weed 6 Code, Stage:	POROL, PRE	POROL, POST
Stage Scale:	.	1 IN DIAMETER
Density, Unit:	. .	HIGH, PLOT

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GREENS (BRASSICA) - WEED CONTROL AND CROP TOLERANCE WITH PRE HERBICIDES

Trial ID: GRBRASSWCCT 2008 Study Dir.: Doug Doohan and T. Koch
Location: South Willard, Ohio Investigator: Doug Doohan

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	40	40
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8002VS	8002VS
Nozzle Spacing, Unit:	15 INCH	15 INCH
Nozzles/Row:	4	4
Band Width, Unit:	60 INCH	60 INCH
Ground Speed, Unit:	3 MPH	3 MPH
Spray Volume, Unit:	25 GPA	25 GPA

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GREENS (BRASSICA) - WEED CONTROL AND CROP TOLERANCE WITH PRE HERBICIDES

Trial ID: GRBRASSWCCT 2008
Location: South Willard, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code						POROL	AMAXX	
Crop Code				MUSGN	BRSOA	ALL	ALL	MUSGN
Part Rated				PLANT	PLANT	WEED	WEED	PLANT
Rating Data Type				INJURY	INJURY	CONTROL	CONTROL	INJURY
Rating Unit				%	%	%	%	%
Rating Date				8/12/08	8/12/08	8/12/08	8/12/08	8/22/08
Trt-Eval Interval				2WATPRE	2WATPRE	2WATPRE	2WATPRE	3WATPRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
HANDWEEDED CHECK				0	0	100	100	0
DUAL MAGNUM	0.525	QT/A	PRE	0	13	84	87	0
DUAL MAGNUM+	0.525	QT/A	PRE	0	23	84	96	9
DUAL MAGNUM	0.525	QT/A	POST					
SPARTAN	3.2	OZ/A	PRE	0	16	82	82	1
SPARTAN	4.8	OZ/A	PRE	0	13	87	70	3
SPARTAN	9.6	OZ/A	PRE	26	30	97	97	23
GOALTENDER	0.25	QT/A	PRE	60	20	99	99	51
GOALTENDER	0.5	QT/A	PRE	60	23	99	99	56
PROWL H2O	1.05	QT/A	PRE	0	20	80	39	3
PROWL H2O	2.1	QT/A	PRE	0	18	89	90	11
LSD (P=.05)				9	13	11	29	12
Standard Deviation				6	9	7	20	8
CV				40	52	8	23	51

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GREENS (BRASSICA) - WEED CONTROL AND CROP TOLERANCE WITH PRE HERBICIDES

Trial ID: GRBRASSWCCT 2008
Location: South Willard, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code					POROL	AMAXX		
Crop Code				BRSOA	ALL	ALL	MUSGN	BRSOA
Part Rated				PLANT	WEED	WEED	PLANT	PLANT
Rating Data Type				INJURY	CONTROL	CONTROL	INJURY	INJURY
Rating Unit				%	%	%	%	%
Rating Date				8/22/08	8/22/08	8/22/08	8/29/08	8/29/08
Trt-Eval Interval				3WATPRE	3WATPRE	3WATPRE	4WATPRE	4WATPRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
HANDWEEDED CHECK				0	100	100	0	0
DUAL MAGNUM	0.525	QT/A	PRE	1	65	55	0	0
DUAL MAGNUM+	0.525	QT/A	PRE	4	76	80	0	5
DUAL MAGNUM	0.525	QT/A	POST					
SPARTAN	3.2	OZ/A	PRE	4	73	54	0	0
SPARTAN	4.8	OZ/A	PRE	4	70	70	0	0
SPARTAN	9.6	OZ/A	PRE	14	86	96	18	18
GOALTENDER	0.25	QT/A	PRE	9	98	98	71	5
GOALTENDER	0.5	QT/A	PRE	13	99	99	65	20
PROWL H2O	1.05	QT/A	PRE	1	74	18	0	3
PROWL H2O	2.1	QT/A	PRE	6	91	79	15	6
LSD (P=.05)				7	19	36	21	13
Standard Deviation				5	13	25	14	9
CV				91	16	33	84	155

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GREENS (BRASSICA) - WEED CONTROL AND CROP TOLERANCE WITH PRE HERBICIDES

Trial ID: GRBRASSWCCT 2008
Location: South Willard, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				POROL	AMAXX			POROL
Crop Code				ALL	ALL	MUSGN	BRSOA	ALL
Part Rated				WEED	WEED	PLANT	PLANT	WEED
Rating Data Type				CONTROL	CONTROL	INJURY	INJURY	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/29/08	8/29/08	9/12/08	9/12/08	9/12/08
Trt-Eval Interval				4WATPRE	4WATPRE	6WATPRE	6WATPRE	6WATPRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
HANDWEEDED CHECK				100	100	0	0	100
DUAL MAGNUM	0.525	QT/A	PRE	51	41	20	18	0
DUAL MAGNUM+ DUAL MAGNUM	0.525 0.525	QT/A QT/A	PRE POST	75	84	8	10	25
SPARTAN	3.2	OZ/A	PRE	54	41	3	0	38
SPARTAN	4.8	OZ/A	PRE	46	21	18	10	19
SPARTAN	9.6	OZ/A	PRE	81	93	3	25	64
GOALTENDER	0.25	QT/A	PRE	94	93	18	5	87
GOALTENDER	0.5	QT/A	PRE	91	94	20	15	85
PROWL H2O	1.05	QT/A	PRE	63	13	4	0	38
PROWL H2O	2.1	QT/A	PRE	89	79	9	8	70
LSD (P=.05)				32	41	18	20	46
Standard Deviation				22	28	12	14	32
CV				29	42	123	151	61

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GREENS (BRASSICA) - WEED CONTROL AND CROP TOLERANCE WITH PRE HERBICIDES

Trial ID: GRBRASSWCCT 2008
Location: South Willard, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				AMARE	AMABL			
Crop Code				ALL	ALL	MUSGN	MUSGN	BRSOA
Part Rated				WEED	WEED	PLANT	PLANT	PLANT
Rating Data Type				CONTROL	CONTROL	YIELD	INJURY	INJURY
Rating Unit				%	%	LBS/PLOT	%	%
Rating Date				9/12/08	9/12/08	9/12/08	8/29/08	8/29/08
Trt-Eval Interval				6WATPRE	6WATPRE	HARVEST	1WATPOST	1WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	16	17	18	19	20
HANDWEEDED CHECK				100	100	2.3	.	.
DUAL MAGNUM	0.525	QT/A	PRE	5	18	1.8	.	.
DUAL MAGNUM+	0.525	QT/A	PRE	20	89	1.6	0	5
DUAL MAGNUM	0.525	QT/A	POST					
SPARTAN	3.2	OZ/A	PRE	13	18	1.4	.	.
SPARTAN	4.8	OZ/A	PRE	24	25	1.8	.	.
SPARTAN	9.6	OZ/A	PRE	78	75	1.8	.	.
GOALTENDER	0.25	QT/A	PRE	91	81	1.6	.	.
GOALTENDER	0.5	QT/A	PRE	80	80	1.3	.	.
PROWL H2O	1.05	QT/A	PRE	0	53	1.7	.	.
PROWL H2O	2.1	QT/A	PRE	15	88	1.5	.	.
LSD (P=.05)				32	35	1	.	.
Standard Deviation				22	24	0	.	.
CV				51	39	23	.	.

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GREENS (BRASSICA) - WEED CONTROL AND CROP TOLERANCE WITH PRE HERBICIDES

Trial ID: GRBRASSWCCT 2008
Location: South Willard, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				POROL	AMAXX			POROL
Crop Code				ALL	ALL	MUSGN	BRSOA	ALL
Part Rated				WEED	WEED	PLANT	PLANT	WEED
Rating Data Type				CONTROL	CONTROL	INJURY	INJURY	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/29/08	8/29/08	9/12/08	9/12/08	9/12/08
Trt-Eval Interval				1WATPOST	1WATPOST	3WATPOST	3WATPOST	3WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	21	22	23	24	25
HANDWEEDED CHECK				.	.	.	.	.
DUAL MAGNUM	0.525	QT/A	PRE	.	.	.	.	.
DUAL MAGNUM+	0.525	QT/A	PRE	75	84	8	10	25
DUAL MAGNUM	0.525	QT/A	POST					
SPARTAN	3.2	OZ/A	PRE	.	.	.	.	.
SPARTAN	4.8	OZ/A	PRE	.	.	.	.	.
SPARTAN	9.6	OZ/A	PRE	.	.	.	.	.
GOALTENDER	0.25	QT/A	PRE	.	.	.	.	.
GOALTENDER	0.5	QT/A	PRE	.	.	.	.	.
PROWL H2O	1.05	QT/A	PRE	.	.	.	.	.
PROWL H2O	2.1	QT/A	PRE	.	.	.	.	.
LSD (P=.05)				.	.	.	.	.
Standard Deviation				.	.	.	.	.
CV				.	.	.	.	.

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GREENS (BRASSICA) - WEED CONTROL AND CROP TOLERANCE WITH PRE HERBICIDES

Trial ID: GRBRASSWCCT 2008
Location: South Willard, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				AMARE	AMABL			POROL
Crop Code				ALL	ALL	MUSGN	BRSOA	ALL
Part Rated				WEED	WEED	PLANT	PLANT	WEED
Rating Data Type				CONTROL	CONTROL	INJURY	INJURY	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				9/12/08	9/12/08	10/3/08	10/3/08	10/3/08
Trt-Eval Interval				3WATPOST	3WATPOST	6WATPOST	6WATPOST	6WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	26	27	28	29	30
HANDWEEDED CHECK				.	.	.	.	.
DUAL MAGNUM	0.525	QT/A	PRE	.	.	.	.	.
DUAL MAGNUM+ DUAL MAGNUM	0.525 0.525	QT/A QT/A	PRE POST	20	89	3	18	0
SPARTAN	3.2	OZ/A	PRE	.	.	.	.	.
SPARTAN	4.8	OZ/A	PRE	.	.	.	.	.
SPARTAN	9.6	OZ/A	PRE	.	.	.	.	.
GOALTENDER	0.25	QT/A	PRE	.	.	.	.	.
GOALTENDER	0.5	QT/A	PRE	.	.	.	.	.
PROWL H2O	1.05	QT/A	PRE	.	.	.	.	.
PROWL H2O	2.1	QT/A	PRE	.	.	.	.	.
LSD (P=.05)				.	.	.	.	.
Standard Deviation				.	.	.	.	.
CV				.	.	.	.	.

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GREENS (BRASSICA) - WEED CONTROL AND CROP TOLERANCE WITH PRE HERBICIDES

Trial ID: GRBRASSWCCT 2008
Location: South Willard, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				AMARE	AMABL	
Crop Code				ALL	ALL	BRSOA
Part Rated				WEED	WEED	PLANT
Rating Data Type				CONTROL	CONTROL	YIELD
Rating Unit				%	%	LBS/PLOT
Rating Date				10/3/08	10/3/08	10/3/08
Trt-Eval Interval				6WATPOST	6WATPOST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	31	32	33
HANDWEEDED CHECK				.	.	3.7
DUAL MAGNUM	0.525	QT/A	PRE	.	.	2.5
DUAL MAGNUM+	0.525	QT/A	PRE	0	0	2.6
DUAL MAGNUM	0.525	QT/A	POST			
SPARTAN	3.2	OZ/A	PRE	.	.	2.3
SPARTAN	4.8	OZ/A	PRE	.	.	2.2
SPARTAN	9.6	OZ/A	PRE	.	.	3.1
GOALTENDER	0.25	QT/A	PRE	.	.	4.1
GOALTENDER	0.5	QT/A	PRE	.	.	3.4
PROWL H2O	1.05	QT/A	PRE	.	.	2.2
PROWL H2O	2.1	QT/A	PRE	.	.	2.7
LSD (P=.05)				.	.	1
Standard Deviation				.	.	1
CV				.	.	28

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PEPPERS - PRE TREATMENTS IN BELL PEPPERS

Trial ID: PEPPERPREU2W2008 | Study Dir.: Doug Doohan and Tim Koch
Location: Wooster, Ohio | Investigator: Doug Doohan

Objective: To evaluate control of apple of Peru and crop injury on bell peppers using Devrinol pre - plant incorporated (PPI), and Kixor (PRE) (not labeled). There were 2 rates for each herbicide.

TRIAL SUMMARY: Devrinol did not control apple of Peru nor cause any pepper injury. Kixor at 2 fl oz/A did not injure peppers nor provide any weed control. Kixor at 4oz/A provided good control of apple of Peru, but also substantially injured the peppers. Yields were not taken.

TRIAL LOCATION

City: Wooster | Trial Status: Final
State/Prov.: Ohio | Trial Reliability: Reliable
Postal Code: 44691 | Initiation Date: 06/02/08
Country: USA | Planned Completion Date: 09/15/08

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	AGRASS	foxtail and crabgrass species	*Setaria spp., Digitaria spp.*
2	AMBEL	common ragweed	*Ambrosia artemisiifolia L.*
3	CHEAL	common lambsquarters	*Chenopodium album L.*
4	CYPES	yellow nutsedge	*Cyperus esclentes L.*
5	NICPH	Apple of Peru	*Nicandra physalodes (L.)*

Crop 1: CPSAN BELL PEPPER | Variety: RED KNIGHT
Planting Date: 06/02/08 | Planting Method: MACHINE PLANTED
Rate: 1 plant PER 12" | Depth: 2 IN
Row Spacing: 48 IN | Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 10 FT | Plot Length, Unit: 25 FT
Site Type: LEVEL FIELD | Reps: 4
Tillage Type: CONVENTIONAL | Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 11 | % OM: 3.11 | Texture: SILT LOAM
% Silt: 75 | pH: 6.86 | Soil Name: WOOSTER SILT LOAM
% Clay: 14 | CEC: 14 | Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A
Application Date:	6/2/2008
Time of Day:	10:30 AM
Application Method:	SPRAY
Application Timing:	PRE
Applic. Placement:	BROADCAST
Air Temp., Unit:	69 F
% Relative Humidity:	50.3
Wind Velocity, Unit:	5.2 MPH
Soil Moisture:	DRY

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PEPPERS - PRE TREATMENTS IN BELL PEPPERS

Trial ID: PEPPERPREU2W2008 Study Dir.: Doug Doohan and Tim Koch
Location: Wooster, Ohio Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CPSAN PRE
Stage Scale:	.
Height, Unit:	0. .

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	AGRASS, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 2 Code, Stage:	AMBEL, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 3 Code, Stage:	CHEAL, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 4 Code, Stage:	CYPES, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 5 Code, Stage:	NICPH, PRE
Stage Scale:	.
Density, Unit:	. .

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	40
Nozzle Type:	FLAT FAN
Nozzle Size:	8002VS
Nozzle Spacing, Unit:	15 IN
Nozzles/Row:	4
Band Width, Unit:	5 FT
Ground Speed, Unit:	3 MPH
Spray Volume, Unit:	25 GPA
Propellant:	CO2

The Ohio State University

PEPPERS - PRE TREATMENTS IN BELL
PEPPERS

Trial ID: PEPPERPREU2W2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Dr. Doug Doohan

Weed Code						AGRASS	CHEAL	NICPH	CYPES
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				PLANT	PLANT	WEED	WEED	WEED	WEED
Rating Data Type				CHLOROSIS	STUNT	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/9/08	6/9/08	6/9/08	6/9/08	6/9/08	6/9/08
Trt-Eval Interval				1WAT	1WAT	1WAT	1WAT	1WAT	1WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
Devrinol	2	LB/A	PPI	0	0	65	25	0	95
Devrinol	4	LB/A	PPI	0	0	97	99	0	99
Kixor	2	FL OZ	PRE	0	0	0	0	0	25
Kixor	4	FL OZ	PRE	0	0	25	49	50	25
LSD (P=.05)				0	0	51	65	46	45
Standard Deviation				0	0	32	41	29	28
CV				0	0	68	95	231	46

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PEPPERS - PRE TREATMENTS IN BELL
PEPPERS

Trial ID: PEPPERPREU2W2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Dr. Doug Doohan

Weed Code				AMBEL			AGRASS	CHEAL
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				WEED	PLANT	PLANT	WEED	WEED
Rating Data Type				CONTROL	CHLOROSIS	STUNT	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/9/08	6/23/08	6/23/08	6/23/08	6/23/08
Trt-Eval Interval				1WAT	3WAT	3WAT	3WAT	3WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11
Devrinol	2	LB/A	PPI	50	0	0	64	61
Devrinol	4	LB/A	PPI	71	0	0	91	94
Kixor	2	FL OZ	PRE	23	5	8	0	0
Kixor	4	FL OZ	PRE	69	3	18	40	45
LSD (P=.05)				73	6	9	46	51
Standard Deviation				45	3	5	29	32
CV				86	183	86	59	64

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PEPPERS - PRE TREATMENTS IN BELL
PEPPERS

Trial ID: PEPPERPREU2W2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Dr. Doug Doohan

Weed Code				NICPH	CYPES	AMBEL		
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				WEED	WEED	WEED	PLANT	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/23/08	6/23/08	6/23/08	7/14/08	7/14/08
Trt-Eval Interval				3WAT	3WAT	3WAT	6WAT	6WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	12	13	14	15	16
Devrinol	2	LB/A	PPI	0	95	60	0	0
Devrinol	4	LB/A	PPI	0	99	94	0	0
Kixor	2	FL OZ	PRE	0	0	24	0	9
Kixor	4	FL OZ	PRE	82	0	88	0	43
LSD (P=.05)				10	4	49	0	18
Standard Deviation				6	3	31	0	11
CV				29	5	46	0	86

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PEPPERS - PRE TREATMENTS IN BELL
PEPPERS

Trial ID: PEPPERPREU2W2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Dr. Doug Doohan

Weed Code				AGRASS	CHEAL	NICPH	CYPES	AMBEL
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/14/08	7/14/08	7/14/08	7/14/08	7/14/08
Trt-Eval Interval				6WAT	6WAT	6WAT	6WAT	6WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	17	18	19	20	21
Devrinol	2	LB/A	PPI	43	40	0	95	0
Devrinol	4	LB/A	PPI	65	44	0	99	84
Kixor	2	FL OZ	PRE	0	0	0	0	26
Kixor	4	FL OZ	PRE	36	41	83	0	71
LSD (P=.05)				44	59	5	4	28
Standard Deviation				27	37	3	3	18
CV				76	118	16	5	39

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PEPPERS - TOLERANCE OF BELL PEPPER TO SPARTAN, GOALTENDER, AND VALOR

Trial ID: PEPPSPGOVALOR08 Study Dir.: Doug Doohan and Tim Koch
Location: Wooster, Ohio Investigator: Doug Doohan

Objective: To evaluate weed control and crop injury on bell peppers using PRE and POST applications of Spartan 75DF, Goaltender 4 EC, and Valor 51WDG.

Trial Summary: This was a herbicide screening trial for non-labeled herbicides, with potential use on bell peppers. The rates used were: Spartan (2.4 and 4.8 oz/A), Goaltender (0.5 and 1 pt/A) , and Valor (1.98 and 3.96 oz/A). Crop injury, weed control, and total yield were the main factors evaluated. For the PRE timing, both Spartan rates and Goaltender at 0.5 pts/A provided the best weed control with the least amount of injury. Valor at 3.96 oz/A was the best POST treatment, and also had the highest yield in this trial.

TRIAL LOCATION

City: Wooster Trial Status: Final
State/Prov.: Ohio Trial Reliability: Reliable
Postal Code: 44691 Initiation Date: 06/02/08
Country: USA Planned Completion Date: 11/15/08

CROP AND WEED DESCRIPTION

Weed	Code	Common Name
1	ABUTH	velvetleaf
2	AMAXX	pigweed species
3	AMBEL	common ragweed
4	AGRASS	foxtail and crabgrass species
5	CHEAL	common lambsquarters
6	NICPH	Apple of Peru

Crop 1: CPSAN PEPPER Variety: RED KNIGHT
Planting Date: 06/02/08 Planting Method: MACHINE PLANTED
Rate: 1 PLANT/18" Depth: 2 IN
Row Spacing: 48 IN Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 10 FT Plot Length, Unit: 25 FT
Site Type: LEVEL FIELD Reps: 4
Tillage Type: CHISEL PLOW Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 11 % OM: 3.11 Texture: SILT LOAM
% Silt: 75 pH: 6.86 Soil Name: WOOSTER SILT LOAM
% Clay: 14 CEC: 14 Fert. Level: MODERATE

The Ohio State University

PEPPERS - TOLERANCE OF BELL PEPPER TO SPARTAN, GOALTENDER, AND VALOR

Trial ID: PEPPSPGOVALOR08 Study Dir.: Doug Doohan and Tim Koch
Location: Wooster, Ohio Investigator: Doug Doohan

APPLICATION DESCRIPTION

	A	B
Application Date:	6/2/2008	7/2/2008
Time of Day:	10:30AM	2 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	BROADCAST	DIRECTED
Air Temp., Unit:	63.4 F	79.3 F
% Relative Humidity:	66.4	52.5
Wind Velocity, Unit:	2.6 MPH	11.3 MPH
Soil Temp., Unit:	60.8 F	74.0 F
Soil Moisture:	DRY	DRY
% Cloud Cover:	80	50

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	CPSAN, PRE	CPSAN, POST
Stage Scale:	.	VEGETAT
Height, Unit:	0. .	12 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	ABUTH, PRE	ABUTH, POST
Stage Scale:	.	4-8 IN
Density, Unit:	. .	LOW, PLOT
Weed 2 Code, Stage:	AMAXX, PRE	AMAXX, POST
Stage Scale:	.	4-8 IN
Density, Unit:	. .	LOW, PLOT
Weed 3 Code, Stage:	AMBEL, PRE	AMBEL, POST
Stage Scale:	.	4-8 IN
Density, Unit:	. .	MEDIUM, PLOT
Weed 4 Code, Stage:	AGRAS, PRE	AGRASS, POST
Stage Scale:	.	4-8 IN
Density, Unit:	. .	MEDIUM, PLOT
Weed 5 Code, Stage:	CHEAL, PRE	CHEAL, POST
Stage Scale:	.	6-10 IN
Density, Unit:	. .	HIGH , PLOT
Weed 6 Code, Stage:	NICPH, PRE	NICPH , POST
Stage Scale:	.	8-12 IN
Density, Unit:	. .	HIGH, PLOT

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	40	40
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8002VS	8002VS
Nozzle Spacing, Unit:	15 IN	15 IN
Nozzles/Row:	4	1
Band Width, Unit:	5 FT	24 IN
Ground Speed, Unit:	3 MPH	3 MPH
Spray Volume, Unit:	25 GPA	25 GPA
Propellant:	CO2	CO2

The Ohio State University

PEPPERS - TOLERANCE OF BELL PEPPER TO SPARTAN, GOALTENDER, AND VALOR

Trial ID: PEPPSPGOVALOR2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code						AGRASS	CHEAL
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				PLANT	PLANT	WEED	WEED
Rating Data Type				CHLOROSIS	STUNT	CONTROL	CONTROL
Rating Unit				%	%	%	%
Rating Date				6/9/08	6/9/08	6/9/08	6/9/08
Trt-Eval Interval				1WATPRE	1WATPRE	1WATPRE	1WATPRE
Treatment Name	Product Rate Unit	Product Rate Unit	Grow Stg	1	2	3	4
Weed Free				0	0	100	100
Spartan 75DF	2.38	OZ/A	PRETP	0	9	74	74
Spartan 75DF	4.8	OZ/A	PRETP	0	9	99	74
Goaltender	0.5	PT/A	PRETP	0	23	93	82
Goaltender	1	PT/A	PRETP	0	25	90	62
Valor	1.98	OZ/A	PRETP	0	31	74	99
Valor	3.96	OZ/A	PRETP	0	53	96	99
Spartan 75DF	2.38	OZ/A	POSTD	.	.	.	.
Spartan 75DF	4.8	OZ/A	POSTD	.	.	.	.
Goaltender	0.5	PT/A	POSTD	.	.	.	.
Goaltender	1	PT/A	POSTD	.	.	.	.
Valor	1.98	OZ/A	POSTD	.	.	.	.
Valor	3.96	OZ/A	POSTD	.	.	.	.
LSD (P=.05)				0	14	38	49
Standard Deviation				0	10	25	33
CV				0	45	28	39

The Ohio State University

PEPPERS - TOLERANCE OF BELL PEPPER TO SPARTAN, GOALTENDER, AND VALOR

Trial ID: PEPPSPGOVALOR2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code				NICPH			NICPH
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				WEED	PLANT	PLANT	WEED
Rating Data Type				CONTROL	CHLOROSIS	STUNT	CONTROL
Rating Unit				%	%	%	%
Rating Date				6/9/08	6/23/08	6/23/08	6/23/08
Trt-Eval Interval				1WATPRE	3WATPRE	3WATPRE	3WATPRE
Treatment Name	Product Rate Unit	Product Rate Unit	Grow Stg	5	6	7	8
Weed Free				100	0	0	100
Spartan 75DF	2.38	OZ/A	PRETP	74	3	21	73
Spartan 75DF	4.8	OZ/A	PRETP	74	11	29	71
Goaltender	0.5	PT/A	PRETP	99	4	25	96
Goaltender	1	PT/A	PRETP	99	11	39	98
Valor	1.98	OZ/A	PRETP	98	18	40	99
Valor	3.96	OZ/A	PRETP	99	30	65	100
Spartan 75DF	2.38	OZ/A	POSTD	.	.	.	.
Spartan 75DF	4.8	OZ/A	POSTD	.	.	.	.
Goaltender	0.5	PT/A	POSTD	.	.	.	.
Goaltender	1	PT/A	POSTD	.	.	.	.
Valor	1.98	OZ/A	POSTD	.	.	.	.
Valor	3.96	OZ/A	POSTD	.	.	.	.
LSD (P=.05)				40	15	16	39
Standard Deviation				27	10	11	26
CV				30	93	34	29

The Ohio State University

PEPPERS - TOLERANCE OF BELL PEPPER TO SPARTAN, GOALTENDER, AND VALOR

Trial ID: PEPPSPGOVALOR2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code				AGRASS	CHEAL			AGRASS
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				WEED	WEED	PLANT	PLANT	WEED
Rating Data Type				CONTROL	CONTROL	CHLOROSIS	STUNT	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/23/08	6/23/08	7/14/08	7/14/08	7/14/08
Trt-Eval Interval				3WATPRE	3WATPRE	6WATPRE	6WATPRE	6WATPRE
Treatment Name	Product Rate Unit	Product Rate Unit	Grow Stg	9	10	11	12	13
Weed Free				100	100	0	0	100
Spartan 75DF	2.38	OZ/A	PRETP	90	90	0	0	84
Spartan 75DF	4.8	OZ/A	PRETP	94	93	0	9	91
Goaltender	0.5	PT/A	PRETP	91	88	0	18	81
Goaltender	1	PT/A	PRETP	96	91	0	31	81
Valor	1.98	OZ/A	PRETP	90	99	0	53	88
Valor	3.96	OZ/A	PRETP	96	100	0	60	89
Spartan 75DF	2.38	OZ/A	POSTD	.	.	.	.	.
Spartan 75DF	4.8	OZ/A	POSTD	.	.	.	.	.
Goaltender	0.5	PT/A	POSTD	.	.	.	.	.
Goaltender	1	PT/A	POSTD	.	.	.	.	.
Valor	1.98	OZ/A	POSTD	.	.	.	.	.
Valor	3.96	OZ/A	POSTD	.	.	.	.	.
LSD (P=.05)				8	9	0	19	14
Standard Deviation				5	6	0	13	10
CV				6	6	0	53	11

The Ohio State University

PEPPERS - TOLERANCE OF BELL PEPPER TO SPARTAN, GOALTENDER, AND VALOR

Trial ID: PEPPSPGOVALOR2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code				NICPH	CHEAL	AMBEL	
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				WEED	WEED	WEED	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	STUNT
Rating Unit				%	%	%	%
Rating Date				7/14/08	7/14/08	7/14/08	7/14/08
Trt-Eval Interval				6WATPRE	6WATPRE	6WATPRE	1WATPOST
Treatment Name	Product Rate Unit	Product Rate Unit	Grow Stg	14	15	16	17
Weed Free				100	100	100	0
Spartan 75DF	2.38	OZ/A	PRETP	61	93	13	.
Spartan 75DF	4.8	OZ/A	PRETP	55	93	8	.
Goaltender	0.5	PT/A	PRETP	86	43	19	.
Goaltender	1	PT/A	PRETP	95	69	75	.
Valor	1.98	OZ/A	PRETP	91	93	88	.
Valor	3.96	OZ/A	PRETP	98	98	94	.
Spartan 75DF	2.38	OZ/A	POSTD	.	.	.	28
Spartan 75DF	4.8	OZ/A	POSTD	.	.	.	28
Goaltender	0.5	PT/A	POSTD	.	.	.	51
Goaltender	1	PT/A	POSTD	.	.	.	70
Valor	1.98	OZ/A	POSTD	.	.	.	58
Valor	3.96	OZ/A	POSTD	.	.	.	60
LSD (P=.05)				35	30	25	33
Standard Deviation				24	20	17	22
CV				28	24	30	53

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PEPPERS - TOLERANCE OF BELL PEPPER TO SPARTAN, GOALTENDER, AND VALOR

Trial ID: PEPPSPGOVALOR2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code				AGRASS	CHEAL	AMBEL	NICPH
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%
Rating Date				7/14/08	7/14/08	7/14/08	7/14/08
Trt-Eval Interval				1WATPOST	1WATPOST	1WATPOST	1WATPOST
Treatment Name	Product Rate Unit	Product Rate Unit	Grow Stg	18	19	20	21
Weed Free				100	100	100	100
Spartan 75DF	2.38	OZ/A	PRETP	.	.	.	.
Spartan 75DF	4.8	OZ/A	PRETP	.	.	.	.
Goaltender	0.5	PT/A	PRETP	.	.	.	.
Goaltender	1	PT/A	PRETP	.	.	.	.
Valor	1.98	OZ/A	PRETP	.	.	.	.
Valor	3.96	OZ/A	PRETP	.	.	.	.
Spartan 75DF	2.38	OZ/A	POSTD	43	99	44	0
Spartan 75DF	4.8	OZ/A	POSTD	51	98	45	0
Goaltender	0.5	PT/A	POSTD	71	89	90	74
Goaltender	1	PT/A	POSTD	85	96	96	99
Valor	1.98	OZ/A	POSTD	78	97	96	74
Valor	3.96	OZ/A	POSTD	85	97	99	99
LSD (P=.05)				40	13	37	36
Standard Deviation				27	9	25	24
CV				36	9	30	38

The Ohio State University

PEPPERS - TOLERANCE OF BELL PEPPER TO SPARTAN, GOALTENDER, AND VALOR

Trial ID: PEPPSPGOVALOR2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code					AGRASS	CHEAL	AMBEL	NICPH
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				PLANT	WEED	WEED	WEED	WEED
Rating Data Type				STUNT	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/23/08	7/23/08	7/23/08	7/23/08	7/23/08
Trt-Eval Interval				3WATPOST	3WATPOST	3WATPOST	3WATPOST	3WATPOST
Treatment Name	Product Rate Unit	Product Rate Unit	Grow Stg	22	23	24	25	26
Weed Free				0	100	100	100	100
Spartan 75DF	2.38	OZ/A	PRETP	.	.	.	.	.
Spartan 75DF	4.8	OZ/A	PRETP	.	.	.	.	.
Goaltender	0.5	PT/A	PRETP	.	.	.	.	.
Goaltender	1	PT/A	PRETP	.	.	.	.	.
Valor	1.98	OZ/A	PRETP	.	.	.	.	.
Valor	3.96	OZ/A	PRETP	.	.	.	.	.
Spartan 75DF	2.38	OZ/A	POSTD	0	0	35	33	0
Spartan 75DF	4.8	OZ/A	POSTD	13	41	40	39	41
Goaltender	0.5	PT/A	POSTD	43	33	0	59	0
Goaltender	1	PT/A	POSTD	50	53	42	78	70
Valor	1.98	OZ/A	POSTD	41	0	20	75	25
Valor	3.96	OZ/A	POSTD	45	23	97	65	86
LSD (P=.05)				17	45	46	32	46
Standard Deviation				11	30	31	21	31
CV				42	85	65	33	68

The Ohio State University

PEPPERS - TOLERANCE OF BELL PEPPER TO SPARTAN, GOALTENDER, AND VALOR

Trial ID: PEPPSPGOVALOR2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code					AGRASS	NICPH	CHEAL	AMBEL
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				PLANT	WEED	WEED	WEED	WEED
Rating Data Type				STUNT	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/11/08	8/11/08	8/11/08	8/11/08	8/11/08
Trt-Eval Interval				6WATPOST	6WATPOST	6WATPOST	6WATPOST	6WATPOST
Treatment Name	Product Rate Unit	Product Rate Unit	Grow Stg	27	28	29	30	31
Weed Free				0	100	100	100	100
Spartan 75DF	2.38	OZ/A	PRETP	.	.	.	.	.
Spartan 75DF	4.8	OZ/A	PRETP	.	.	.	.	.
Goaltender	0.5	PT/A	PRETP	.	.	.	.	.
Goaltender	1	PT/A	PRETP	.	.	.	.	.
Valor	1.98	OZ/A	PRETP	.	.	.	.	.
Valor	3.96	OZ/A	PRETP	.	.	.	.	.
Spartan 75DF	2.38	OZ/A	POSTD	0	16	24	0	0
Spartan 75DF	4.8	OZ/A	POSTD	4	36	0	0	0
Goaltender	0.5	PT/A	POSTD	36	38	71	0	64
Goaltender	1	PT/A	POSTD	34	50	48	24	56
Valor	1.98	OZ/A	POSTD	16	0	48	0	40
Valor	3.96	OZ/A	POSTD	4	38	89	65	82
LSD (P=.05)				18	51	59	30	47
Standard Deviation				12	34	40	20	32
CV				88	87	74	74	65

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PEPPERS - TOLERANCE OF BELL PEPPER TO SPARTAN, GOALTENDER, AND VALOR

Trial ID: PEPPSPGOVALOR2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code								
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				MKTB NO	MKTB WT	MKTB WT	IMMAT NO	IMMAT WT
Rating Unit				PER PLOT	LB/PLOT	TONS/A	PER PLOT	LB/PLOT
Rating Date				8/27/08	8/27/08	8/27/08	8/27/08	8/27/08
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Treatment Name	Product Rate Unit	Product Rate Unit	Grow Stg	32	33	34	37	38
Weed Free				0	0	0.0	14	1
Spartan 75DF	2.38	OZ/A	PRETP	0	0.1	0.1	4	0.5
Spartan 75DF	4.8	OZ/A	PRETP	0	0	0.0	1	0.1
Goaltender	0.5	PT/A	PRETP	0	0	0.0	2	0.2
Goaltender	1	PT/A	PRETP	0	0.1	0.1	5	0.5
Valor	1.98	OZ/A	PRETP	3	0.9	0.8	2	0.3
Valor	3.96	OZ/A	PRETP	5	1.8	1.6	2	0.3
Spartan 75DF	2.38	OZ/A	POSTD	0	0	0.0	4	0.3
Spartan 75DF	4.8	OZ/A	POSTD	0	0	0.0	2	0.2
Goaltender	0.5	PT/A	POSTD	0	0	0.0	2	0.1
Goaltender	1	PT/A	POSTD	0	0	0.0	6	0.4
Valor	1.98	OZ/A	POSTD	0	0	0.0	5	0.4
Valor	3.96	OZ/A	POSTD	0	0.1	0.1	10	0.7
LSD (P=.05)				1	0	0	6	1
Standard Deviation				1	0	0	4	0
CV				126	141	141	93	107

The Ohio State University

RASPBERRIES, RED- WEED CONTROL AND CROP TOLERANCE OF ESTABLISHED PLANTS TO HERBICIDES (SNYDER FARM)

Trial ID: RRASPBWCCT 2008
Location: Wooster, Ohio

Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Objective: To evaluate weed control and crop injury with several herbicide combinations on established red raspberry plants.

TRIAL SUMMARY: This trial evaluated PRE applications of five herbicides including Callisto, Chateau, Spartan, Matrix, and Sinbar for crop tolerance and weed control. Crop injury was not observed in any treatment. Matrix, though currently not labeled for raspberries, provided the best overall weed control and appears to have potential for this crop.

TRIAL LOCATION

City: Wooster
State/Prov.: Ohio
Postal Code: 44691
Country: USA

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 03/26/08
Planned Completion Date: 10/31/08

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	AGGRE	quackgrass	*Elytrigia repens (L.) Nevski*
2	ASTPI	white heath aster	*Aster plosus Willd.*
3	CARHI	hairy bittercress	*Cardamine pratensis L.*
4	CERVU	mouseear chickweed	*Cerastium vulgatum L.*
5	CIRAR	Canada thistle	*Cirsium arvense (L.) Scop.*
6	GLEHE	ground ivy	*Glechoma hederacea L.*
7	POAAN	annual bluegrass	*Poa annua L.*
8	PLALA	buckhorn plantain	*Plantago lanceolata L.*
9	RUMAA	red sorrel	*Rumex acetosella L.*
10	TAROF	dandelion	*Taraxacum officinale Weber*
11	TRFRE	white clover	*Trifolium repens L.*

Crop 1: RUBSG RED RASPBERRY Variety: CAROLINE
Planting Date: 05/15/02 Planting Method: CONVENTIONAL
Perennial Age: 6 YR Row Spacing: 10 FT

SITE AND DESIGN

Plot Width, Unit: 4 FT
Site Type: LEVEL FIELD
Tillage Type: NONE

Plot Length, Unit: 10 FT
Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 11
% Silt: 75
% Clay: 14

% OM: 3.11
pH: 7.3
CEC: 14

Texture: SILT LOAM
Soil Name: WOOSTER SILT LOAM
Fert. Level: MODERATE

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RASPBERRIES, RED- WEED CONTROL AND CROP TOLERANCE OF ESTABLISHED PLANTS TO HERBICIDES (SNYDER FARM)

Trial ID: RRASPBWCCT 2008
Location: Wooster, Ohio

Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

APPLICATION DESCRIPTION

	A
Application Date:	3/26/2008
Time of Day:	2-3 PM
Application Method:	SPRAY
Application Timing:	PRE
Applic. Placement:	BROADCAST
Air Temp., Unit:	52.1 F
% Relative Humidity:	48.8
Wind Velocity, Unit:	10 MPH
Soil Moisture:	MOIST
% Cloud Cover:	30

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	RUBSG, PRE
Stage Scale:	DORMANT
Height, Unit:	2 FT

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	AGGRE, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 2 Code, Stage:	ASTPI, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 3 Code, Stage:	CARHI, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 4 Code, Stage:	CERVU, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 5 Code, Stage:	CIRAR, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 6 Code, Stage:	GLEHE, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 7 Code, Stage:	POAAN, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 8 Code, Stage:	PLALA, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 9 Code, Stage:	RUMAA, PRE
Stage Scale:	.
Density, Unit:	. .
Weed10 Code, Stage:	TAROF, PRE
Stage Scale:	.
Density, Unit:	. .

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RASPBERRIES, RED- WEED CONTROL AND CROP TOLERANCE OF ESTABLISHED PLANTS TO HERBICIDES (SNYDER FARM)

Trial ID: RRASPBWCCT 2008
Location: Wooster, Ohio

Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed11 Code, Stage:	TRFRE, PRE
Stage Scale:	.
Density, Unit:	. .

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	35
Nozzle Type:	FLAT FAN
Nozzle Size:	8003 EVS
Nozzles/Row:	1
Band Width, Unit:	20 IN
Ground Speed, Unit:	3 MPH
Carrier:	H20
Spray Volume, Unit:	25 GPA
Propellant:	CO2
Tank Mix (Y/N):	Y

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RASPBERRIES, RED- WEED CONTROL AND CROP TOLERANCE OF ESTABLISHED PLANTS TO HERBICIDES

Trial ID: RRASPBWCCT 2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				POANN	CARHI	TRFRE	TAROF	GLEHE
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				4/2/08	4/2/08	4/2/08	4/2/08	4/2/08
Trt-Eval Interval				1WAT	1WAT	1WAT	1WAT	1WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
CALLISTO+	6	FL OZ/A	PRE	0	0	1	0	0
PRINCEP	32	OZ/A	PRE					
CALLISTO +	6	FL OZ/A	PRE	0	0	0	0	5
CASORON	50	LB/A	PRE					
CALLISTO+	6	FL OZ/A	PRE	0	0	5	5	0
CASORON	75	LB/A	PRE					
CHATEAU	6	OZ/A	PRE	0	0	2	0	0
CHATEAU	9	OZ/A	PRE	0	0	0	0	10
CHATEAU	12	OZ/A	PRE	0	0	0	0	0
SPARTAN	6	OZ/A	PRE	0	0	0	0	0
MATRIX	8	OZ/A	PRE	0	0	0	0	0
SINBAR	8	OZ/A	PRE	0	0	1	0	0
SINBAR	16	OZ/A	PRE	0	0	0	0	0
LSD (P=.05)				0	0	3	5	10
Standard Deviation				0	0	2	3	6
CV				0	0	246	548	390

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RASPBERRIES, RED- WEED CONTROL AND CROP TOLERANCE OF ESTABLISHED PLANTS TO HERBICIDES

Trial ID: RRASPBWCCT 2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				AGGRE	RUMAA	POANN	CARHI	CERVU
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				4/2/08	4/2/08	4/9/08	4/9/08	4/9/08
Trt-Eval Interval				1WAT	1WAT	2WAT	2WAT	2WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
CALLISTO+	6	FL OZ/A	PRE	0	0	0	33	16.7
PRINCEP	32	OZ/A	PRE					
CALLISTO +	6	FL OZ/A	PRE	2	0	0	0	13.3
CASORON	50	LB/A	PRE					
CALLISTO+	6	FL OZ/A	PRE	3	0	0	33	35
CASORON	75	LB/A	PRE					
CHATEAU	6	OZ/A	PRE	0	30	0	0	0
CHATEAU	9	OZ/A	PRE	0	30	0	0	28.3
CHATEAU	12	OZ/A	PRE	0	0	0	0	31.7
SPARTAN	6	OZ/A	PRE	0	95	0	0	3.3
MATRIX	8	OZ/A	PRE	0	18	0	0	5
SINBAR	8	OZ/A	PRE	0	0	0	0	0
SINBAR	16	OZ/A	PRE	0	3	0	0	0
LSD (P=.05)				4	33	0	45	47
Standard Deviation				2	19	0	26	28
CV				417	109	0	398	207

The Ohio State University

RASPBERRIES, RED- WEED CONTROL AND CROP TOLERANCE OF ESTABLISHED PLANTS TO HERBICIDES

Trial ID: RRASPBWCCT 2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				TRFRE	TAROF	GLEHE	PLALA	AGGRE
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				4/9/08	4/9/08	4/9/08	4/9/08	4/9/08
Trt-Eval Interval				2WAT	2WAT	2WAT	2WAT	2WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
CALLISTO+	6	FL OZ/A	PRE	11.7	16.7	33	16.7	0
PRINCEP	32	OZ/A	PRE					
CALLISTO +	6	FL OZ/A	PRE	5	0	0	0	0
CASORON	50	LB/A	PRE					
CALLISTO+	6	FL OZ/A	PRE	13.3	16.7	16.7	20	6.7
CASORON	75	LB/A	PRE					
CHATEAU	6	OZ/A	PRE	0	16.7	0	6.7	0
CHATEAU	9	OZ/A	PRE	0	3.3	26.7	0	0
CHATEAU	12	OZ/A	PRE	28.3	3.3	40	0	0
SPARTAN	6	OZ/A	PRE	1.7	0	46.7	38.3	0
MATRIX	8	OZ/A	PRE	13.3	46.7	43.3	10	35
SINBAR	8	OZ/A	PRE	0	0	0	0	0
SINBAR	16	OZ/A	PRE	3.3	0	0	0	0
LSD (P=.05)				29	35	57	29	18
Standard Deviation				17	21	33	17	11
CV				224	200	161	183	256

The Ohio State University

RASPBERRIES, RED- WEED CONTROL AND CROP TOLERANCE OF ESTABLISHED PLANTS TO HERBICIDES

Trial ID: RRASPBWCCT 2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				RUMAA		POANN	CARHI	CERVU
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	PLANT	WEED	WEED	WEED
Rating Data Type				CONTROL	STUNT	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				4/9/08	4/23/08	4/23/08	4/23/08	4/23/08
Trt-Eval Interval				2WAT	4WAT	4WAT	4WAT	4WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	16	17	18	19	20
CALLISTO+	6	FL OZ/A	PRE	16.7	0	33	99	99
PRINCEP	32	OZ/A	PRE					
CALLISTO +	6	FL OZ/A	PRE	13.3	0	33	99	99
CASORON	50	LB/A	PRE					
CALLISTO+	6	FL OZ/A	PRE	5	0	43	99	99
CASORON	75	LB/A	PRE					
CHATEAU	6	OZ/A	PRE	16.7	0	33	99	99
CHATEAU	9	OZ/A	PRE	30	0	66	99	99
CHATEAU	12	OZ/A	PRE	0	0	61.3	99	99
SPARTAN	6	OZ/A	PRE	63.3	0	28.3	66	66
MATRIX	8	OZ/A	PRE	43.3	0	99	99	99
SINBAR	8	OZ/A	PRE	6.7	0	0	99	99
SINBAR	16	OZ/A	PRE	10	0	0	66	66
LSD (P=.05)				46	0	68	45	45
Standard Deviation				27	0	40	26	26
CV				130	0	100	28	28

The Ohio State University

RASPBERRIES, RED- WEED CONTROL AND CROP TOLERANCE OF ESTABLISHED PLANTS TO HERBICIDES

Trial ID: RRASPBWCCT 2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				TRFRE	TAROF	GLEHE	PLALA	AGGRE
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				4/23/08	4/23/08	4/23/08	4/23/08	4/23/08
Trt-Eval Interval				4WAT	4WAT	4WAT	4WAT	4WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	21	22	23	24	25
CALLISTO+	6	FL OZ/A	PRE	26.7	99	39.7	13.3	31.7
PRINCEP	32	OZ/A	PRE					
CALLISTO +	6	FL OZ/A	PRE	30	99	58	0	0
CASORON	50	LB/A	PRE					
CALLISTO+	6	FL OZ/A	PRE	88	99	79.7	8.3	26.7
CASORON	75	LB/A	PRE					
CHATEAU	6	OZ/A	PRE	0	0	59.7	33	5
CHATEAU	9	OZ/A	PRE	26.7	33	78	33	0
CHATEAU	12	OZ/A	PRE	58	99	76.7	0	0
SPARTAN	6	OZ/A	PRE	13.3	0	73	36.3	0
MATRIX	8	OZ/A	PRE	78.3	97.7	88	56.3	85
SINBAR	8	OZ/A	PRE	0	33	0	0	0
SINBAR	16	OZ/A	PRE	0	33	3.3	33	10
LSD (P=.05)				55	54	51	69	36
Standard Deviation				32	31	30	40	21
CV				100	53	53	188	133

The Ohio State University

RASPBERRIES, RED- WEED CONTROL AND CROP TOLERANCE OF ESTABLISHED PLANTS TO HERBICIDES

Trial ID: RRASPBWCCT 2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				RUMAA	CIRAR		POANN	CARHI
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	WEED	PLANT	WEED	WEED
Rating Data Type				CONTROL	CONTROL	STUNT	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				4/23/08	4/23/08	5/1/08	5/1/08	5/1/08
Trt-Eval Interval				4WAT	4WAT	6WAT	6WAT	6WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	26	27	28	29	30
CALLISTO+	6	FL OZ/A	PRE	92.7	33	0	99	99
PRINCEP	32	OZ/A	PRE					
CALLISTO +	6	FL OZ/A	PRE	84.7	0	0	66	99
CASORON	50	LB/A	PRE					
CALLISTO+	6	FL OZ/A	PRE	91	33	0	99	99
CASORON	75	LB/A	PRE					
CHATEAU	6	OZ/A	PRE	89.7	0	0	33	66
CHATEAU	9	OZ/A	PRE	85	0	0	66	66
CHATEAU	12	OZ/A	PRE	93	0	0	66	99
SPARTAN	6	OZ/A	PRE	63	0	0	66	99
MATRIX	8	OZ/A	PRE	63	63	0	99	99
SINBAR	8	OZ/A	PRE	3.3	0	0	66	33
SINBAR	16	OZ/A	PRE	36.3	10	0	99	99
LSD (P=.05)				54	52	0	79	56
Standard Deviation				32	30	0	46	32
CV				45	219	0	61	38

The Ohio State University

RASPBERRIES, RED- WEED CONTROL AND CROP TOLERANCE OF ESTABLISHED PLANTS TO HERBICIDES

Trial ID: RRASPBWCCT 2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				CERVU	TRFRE	ASTPI	TAROF	SOOCA
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/1/08	5/1/08	5/1/08	5/1/08	5/1/08
Trt-Eval Interval				6WAT	6WAT	6WAT	6WAT	6WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	31	32	33	34	35
CALLISTO+	6	FL OZ/A	PRE	99	38	66	33	33
PRINCEP	32	OZ/A	PRE					
CALLISTO +	6	FL OZ/A	PRE	33	23.3	33	49.7	33
CASORON	50	LB/A	PRE					
CALLISTO+	6	FL OZ/A	PRE	61.3	68.3	0	49.7	0
CASORON	75	LB/A	PRE					
CHATEAU	6	OZ/A	PRE	33	8.3	0	0	0
CHATEAU	9	OZ/A	PRE	66	26.7	0	0	0
CHATEAU	12	OZ/A	PRE	99	61.7	66	49.7	33
SPARTAN	6	OZ/A	PRE	33	0	33	0	0
MATRIX	8	OZ/A	PRE	99	56.7	66	96	33
SINBAR	8	OZ/A	PRE	33	0	0	0	0
SINBAR	16	OZ/A	PRE	66	33	33	16.7	33
LSD (P=.05)				83	60	78	52	63
Standard Deviation				49	35	45	30	37
CV				78	110	153	103	222

The Ohio State University

RASPBERRIES, RED- WEED CONTROL AND CROP TOLERANCE OF ESTABLISHED PLANTS TO HERBICIDES

Trial ID: RRASPBWCCT 2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				GLEHE	PLALA	AGGRE	RUMAA	CIRAR
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/1/08	5/1/08	5/1/08	5/1/08	5/1/08
Trt-Eval Interval				6WAT	6WAT	6WAT	6WAT	6WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	36	37	38	39	40
CALLISTO+	6	FL OZ/A	PRE	69.3	69.3	33	72.7	0
PRINCEP	32	OZ/A	PRE					
CALLISTO +	6	FL OZ/A	PRE	63	0	0	43.3	33
CASORON	50	LB/A	PRE					
CALLISTO+	6	FL OZ/A	PRE	79.7	66	0	61.3	0
CASORON	75	LB/A	PRE					
CHATEAU	6	OZ/A	PRE	39.7	33	0	28.3	33
CHATEAU	9	OZ/A	PRE	46.7	0	0	6.7	0
CHATEAU	12	OZ/A	PRE	66.7	99	0	55	0
SPARTAN	6	OZ/A	PRE	26.7	33	0	68.3	0
MATRIX	8	OZ/A	PRE	89.7	20	97.7	89.7	82.7
SINBAR	8	OZ/A	PRE	0	0	0	16.7	0
SINBAR	16	OZ/A	PRE	16.7	33	0	33	0
LSD (P=.05)				65	71	31	70	48
Standard Deviation				38	42	18	41	28
CV				76	118	139	85	189

The Ohio State University

STRAWBERRIES - FALL STINGER AND CHATEAU APPLICATIONS FOR CANADA THISTLE CONTROL

Trial ID: STRFALLSTCHA 2007 | Study Dir.: Doug Doohan and T.Koch
Location: Wooster, Ohio | Investigator: Doug Doohan

Objective: To compare fall application timings of Stinger and Chateau in strawberries for Canada thistle control the following spring.

TRIAL SUMMARY: This trial evaluated Stinger at 4, 8 and 12 oz/A, and Chateau at 1.5, 3, and 6 oz/A sprayed on mature thistle plants in early October. Stinger at 12oz/A provided the best thistle control. Fall application appears to be less effective for thistle than spring or summer application.

TRIAL LOCATION

City: Wooster | Trial Status: Final
State/Prov.: Ohio | Trial Reliability: Reliable
Postal Code: 44691 | Initiation Date:10/04/07
Country: USA | Planned Completion Date: 6/30/08

CROP AND WEED DESCRIPTION

Weed	Code	Common Name
1	CIRAR	Canada Thistle
2	TAROF	dandelion

Crop 1: FRAAN | STRAWBERRY | Variety: VARIOUS
Planting Date: 05/15/05 | Planting Method: MACHINE
Row Spacing: 6 FT

SITE AND DESIGN

Plot Width, Unit: 5 FT | Plot Length, Unit: 10 FT
Site Type: LEVEL FIELD | Reps: 4
Tillage Type: NONE | Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 11 | % OM: 3.11 | Texture: SILT LOAM
% Silt: 75 | pH: 7.3 | Soil Name: WOOSTER SILT LOAM
% Clay: 14 | CEC: 14 | Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A	B
Application Date:	10/4/2007	12/19/2007
Time of Day:	11 AM	10 AM
Application Method:	SPRAY	SPRAY
Application Timing:	POST	DORMANT
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	75.1 F	39 F
% Relative Humidity:	69.8	67
Wind Velocity, Unit:	3.2 MPH	5 MPH
Dew Presence (Y/N):	N	N
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	0	50

The Ohio State University

STRAWBERRIES - FALL STINGER AND CHATEAU APPLICATIONS FOR CANADA THISTLE CONTROL

Trial ID: STRFALLSTCHA 2007
Location: Wooster, Ohio

Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	FRAAN, POST B	FRAAN, POST C
Stage Scale:	VEGET	DORMANT
Height, Unit:	10 IN	10 1N

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	CIRAR, POST B	CIRAR, POST C
Stage Scale:	VEGET	DORMANT
Height, Unit:	18-24 IN	18-24 IN
Weed 1 Code, Stage:	TAROF, POST B	TAROF, POST C
Stage Scale:	VEGETATIVE	DORMANT
Height, Unit:	10 IN	10 IN

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	35	35
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8002 VS	8002 VS
Nozzle Spacing, Unit:	15 IN	15 IN
Nozzles/Row:	3	3
Band Width, Unit:	45 IN	45 IN
Ground Speed, Unit:	3 MPH	3 MPH
Spray Volume, Unit:	25 GPA	25 GPA
Propellant:	CO2	CO2

The Ohio State University

STRAWBERRIES - FALL STINGER AND CHATEAU APPLICATIONS FOR CANADA THISTLE CONTROL

Trial ID: STRFALLSTCHA 2007
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

Crop Code			FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	CIRAR FRAAN
Part Rated			PLANT	PLANT	WEED	PLANT	PLANT	WEED
Rating Data Type			STUNT	LEAF CURL	CONTROL	STUNT	LEAF CURL	CONTROL
Rating Unit			%	%	%	%	%	%
Rating Date			10/11/07	10/11/07	10/11/07	10/25/07	10/25/07	10/25/07
Trt-Eval Interval			1WAT	1WAT	1WAT	3WAT	3WAT	3WAT
Treatment Name	Product Rate	Product Rate Unit	1	2	3	4	5	6
UNTREATED CONTROL			0	0	0	0	0	0
STINGER	4	OZ/A	0	0	29	0	0	38
STINGER	8	OZ/A	0	0	43	0	0	55
STINGER	12	OZ/A	0	0	43	0	0	58
CHATEAU	1.5	OZ/A						
CHATEAU	3	OZ/A						
CHATEAU	6	OZ/A						
LSD (P=.05)			0	0	10	0	0	8
Standard Deviation			0	0	6	0	0	5
CV			0	0	21	0	0	13

The Ohio State University

STRAWBERRIES - FALL STINGER AND CHATEAU APPLICATIONS FOR CANADA THISTLE CONTROL

Trial ID: STRFALLSTCHA 2007
Location: Wooster, Ohio
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

			CIRAR	TAROF	CIRAR	TAROF	CIRAR	TAROF
Crop Code			FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated			WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type			CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit			%	%	%	%	%	%
Rating Date			4/18/08	4/18/08	5/6/08	5/6/08	5/23/08	5/23/08
Trt-Eval Interval			28 WAT	28 WAT	30 WAT	30 WAT	32 WAT	32 WAT
Treatment Name	Product Rate	Product Rate Unit	7	8	9	10	11	12
UNTREATED CONTROL			0	0	0	0	0	0
STINGER	4	OZ/A	57	57	66	74	41	45
STINGER	8	OZ/A	94	70	79	92	56	21
STINGER	12	OZ/A	90	71	85	72	58	26
CHATEAU	1.5	OZ/A	5	99	0	72	0	68
CHATEAU	3	OZ/A	33	99	0	47	0	23
CHATEAU	6	OZ/A	45	74	0	72	5	44
LSD (P=.05)			35	48	16	67	18	44
Standard Deviation			24	32	11	45	12	30
CV			51	48	34	73	52	92

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio

Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

Objective: To evaluate crop injury and weed control with 12 herbicide treatments and 20 varieties of sweet corn

TRIAL SUMMARY: This was a non-replicated trial evaluating PRE and POST herbicides. Ratings were taken at 1, 3, and 6 weeks after each treatment. Yields were not taken. All herbicide treatments provided very good weed control. Kixor (not labeled for sweet corn) used PRE in this trial, provided excellent weed control. Varieties showing significant injury include: "Montauk" and "XTH 2171" to Kixor, "Frisky" and "Mystique" to Accent, and "Mystique" to Status and Impact/Atrazine.

TRIAL LOCATION

City: Wooster
State/Prov.: Ohio
Postal Code: 44691
Country: USA

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 05/15/08
Planned Completion Date: 09/15/08

Crop 1: ZEAMS	SWEET CORN	Variety: 20 VARIETIES
Planting Date: 05/15/08		Planting Method: CONVENTIONAL
Rate: 17 K/ACRE	Depth: 2 IN	Seed Bed: CONVENTIONAL
Row Spacing: 30 IN		Spacing Within Row: 10 IN
Emergence Date: 05/26/08		

SITE AND DESIGN

Plot Width, Unit: 10 FT	Plot Length, Unit: 90 FT
Site Type: LEVEL FIELD	Reps: 1
Tillage Type: CONVENTIONAL	Study Design: SPLIT-PLOT

SOIL DESCRIPTION

% Sand: 11	% OM: 3.11	Texture: SILT LOAM
% Silt: 75	pH: 6.86	Soil Name: WOOSTER SILT LOAM
% Clay: 14	CEC: 14	Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A	B
Application Date:	5/20/2008	6/24/2008
Time of Day:	8-9 AM	11AM-1PM
Application Method:	TRACTOR	BACKPACK
Application Timing:	PRE	POST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	48.5 F	72.1 F
% Relative Humidity:	84.6	70.9
Wind Velocity, Unit:	3.0 MPH	5.4 MPH
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	50	50

The Ohio State University

SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008 Study Dir.: Doug Doohan and T.Koch
Location: Wooster, Ohio Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMS, PRE	ZEAMS, POST
Stage Scale:	.	V3-V5
Height, Unit:	0. .	6 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	ABUTH, PRE	ABUTH, POST
Stage Scale:	.	3 IN
Density, Unit:	. .	MEDIUM, PLOT
Weed 2 Code, Stage:	AGRAS, PRE	AGRAS, POST
Stage Scale:	.	2 IN
Density, Unit:	. .	LOW, PLOT
Weed 3 Code, Stage:	AMBEL, PRE	AMBEL, POST
Stage Scale:	.	4 IN
Density, Unit:	. .	HIGH PLOT
Weed 4 Code, Stage:	CHEAL, PRE	CHEAL , POST
Stage Scale:	.	3 IN
Density, Unit:	. .	LOW, PLOT
Weed 5 Code, Stage:	DIGSA, PRE	DIGSA, POST
Stage Scale:	.	2 IN
Density, Unit:	. .	MEDIUM, PLOT
Weed 6 Code, Stage:	ECHSS, PRE	ECHSS, POST
Stage Scale:	.	4 IN DIAM
Density, Unit:	. .	LOW, PLOT
Weed 7 Code, Stage:	GASCI, PRE	GASCI, POST
Stage Scale:	.	2 IN
Density, Unit:	. .	MEDIUM, PLOT
Weed 8 Code, Stage:	PANDI, PRE	PANDI, POST
Stage Scale:	.	1 IN
Density, Unit:	. .	LOW, PLOT
Weed 9 Code, Stage:	POLCO, PRE	POLCO, POST
Stage Scale:	.	1 IN
Density, Unit:	. .	MEDIUM, PLOT
Weed10 Code, Stage:	POLPY , PRE	POLPY, POST
Stage Scale:	.	1 IN DIAM
Density, Unit:	. .	MEDIUM, PLOT
Weed11 Code, Stage:	POROL, PRE	POROL, POST
Stage Scale:	.	1 IN
Density, Unit:	. .	LOW, PLOT
Weed12 Code, Stage:	SETFA, PRE	SETFA, POST
Stage Scale:	.	.
Density, Unit:	. .	. .
Weed13 Code, Stage:	SOLPT, PRE	SOLPT, POST
Stage Scale:	.	.
Density, Unit:	. .	. .
Weed14 Code, Stage:	TAROF, PRE	TAROF, POST
Stage Scale:	.	4 IN DIAM
Density, Unit:	. .	LOW, PLOT

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008 Study Dir.: Doug Doohan and T.Koch
Location: Wooster, Ohio Investigator: Doug Doohan

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	TRACTOR	BACKPACK
Operating Pressure:	40	40
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8002VS	8002VS
Nozzle Spacing, Unit:	12 IN	15 IN
Nozzles/Row:	10	4
Band Width, Unit:	10 FT	5 FT
Ground Speed, Unit:	3 MPH	3 MPH
Spray Volume, Unit:	25 GPA	25 GPA
Propellant:	CO2	CO2

Trial Comments

VARIETY	SOURCE	Maturity	Type	Color
1) BC 0805	Rogers Syngenta	82	SE	BC
2) BC 0805	Rogers Syngenta	75	SE	BC
3) BRAND 274A	Stokes	74	SH2	BC
4) BSS0977	Rogers Syngenta	78	SH2	BC
5) BSS0982	Rogers Syngenta	79	SH2	BC
6) FRISKY	Crookham	69	SE	BC
7) GARRISON	Rogers Syngenta	81	SH2	Y
8) GSS0966	Rogers Syngenta	78	SH2	Y
9) GSS 2008	Rogers Syngenta	72	SH2	Y
10) KRISTINE	Crookham	80	SE	BC
11) MONTAUK	Mesa Maize	79	SE	BC
12) MYSTIQUE	Crookham	75	SE	BC
13) RISPEN 8000	Rispen	80	SH2	BC
14) SWEET SURPRISE	Rispen	72	SH2	BC
15) TRIUMPH	Rispen	75	SH2	BC
16) WH 1163	Rogers Syngenta	80	SE	W
17) WH0809	Rogers Syngenta	82	SE	W
18) WSS 0987	Rogers Syngenta	81	SH2	W
19) XTH 2171	Stokes	71	SH2	BC
20) XTH 2281	Stokes	81	SH2	BC

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
Weed Code									
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				5/27/08	5/27/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1 WATPRE	1 WATPRE	2 WATPRE	2 WATPRE	3 WATPRE	3 WATPRE
BC 0805				0	0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE						
	1.5	PT/A	PRE						
BC 0805				0	0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
BC 0805				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
BC 0805				.	.	.	.	.	.
LAUDIS+	3	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
BC 0805				.	.	.	.	.	.
ACCENT+	2.66	OZ/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
BC 0805				.	.	.	.	.	.
STATUS+	10	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
BC 0805				0	0	0	0	0	0
STATUS+	10	OZ/A	POST						
OUTLOOK	1.5	PT/A	PRE						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
BC 0805				0	0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE						
CALLISTO+	3	OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
COC	2	PT/A	POST						

The Ohio State University

SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code											
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				5/27/08	5/27/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1 WATPRE	1 WATPRE	2 WATPRE	2 WATPRE	3 WATPRE	3 WATPRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
BC 0805				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ACCENT+	2.66	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	2	QT/A	POST						
BC 0808				0	0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
BC 0808				0	0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
BC 0808				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
BC 0808				.	.	.	.	.	.
LAUDIS+	3	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
BC 0808				.	.	.	.	.	.
ACCENT+	2.66	OZ/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
BC 0808				.	.	.	.	.	.
STATUS+	10	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
BC 0808				0	0	0	0	0	0
STATUS+	10	OZ/A	POST						
OUTLOOK	1.5	PT/A	PRE						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						

The Ohio State University

SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
Weed Code									
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				5/27/08	5/27/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1 WATPRE	1 WATPRE	2 WATPRE	2 WATPRE	3 WATPRE	3 WATPRE
BC 0808				0	0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE						
CALLISTO+	3	OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
COC	2	PT/A	POST						
BC 0808				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ACCENT+	2.66	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	2	QT/A	POST						
BRAND 274A				0	0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
BRAND 274A				0	0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
BRAND 274A				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
BRAND 274A				.	.	.	.	.	.
LAUDIS+	3	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
BRAND 274A				.	.	.	.	.	.
ACCENT+	2.66	OZ/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
BRAND 274A				.	.	.	.	.	.
STATUS+	10	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code											
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				5/27/08	5/27/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1 WATPRE	1 WATPRE	2 WATPRE	2 WATPRE	3 WATPRE	3 WATPRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
BRAND 274A				0	0	0	0	0	0
STATUS+	10	OZ/A	POST						
OUTLOOK	1.5	PT/A	PRE						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
BRAND 274A				0	0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE						
CALLISTO+	3	OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
COC	2	PT/A	POST						
BRAND 274A				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ACCENT+	2.66	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	2	QT/A	POST						
BSS 0977				0	0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
BSS 0977				0	0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
BSS 0977				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
BSS 0977				.	.	.	.	.	.
LAUDIS+	3	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						

The Ohio State University

SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
Weed Code									
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				5/27/08	5/27/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1 WATPRE	1 WATPRE	2 WATPRE	2 WATPRE	3 WATPRE	3 WATPRE
BSS 0977				.	.	.	.	.	.
ACCENT+	2.66	OZ/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
BSS 0977				.	.	.	.	.	.
STATUS+	10	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
BSS 0977				0	0	0	0	0	0
STATUS+	10	OZ/A	POST						
OUTLOOK	1.5	PT/A	PRE						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
BSS 0977				0	0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE						
CALLISTO+	3	OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
COC	2	PT/A	POST						
BSS 0977				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ACCENT+	2.66	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	2	QT/A	POST						
BSS 0982				0	0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
BSS 0982				0	0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
BSS 0982				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						

The Ohio State University

SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
Weed Code									
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				5/27/08	5/27/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1 WATPRE	1 WATPRE	2 WATPRE	2 WATPRE	3 WATPRE	3 WATPRE
BSS 0982				.	.	.	.	.	.
LAUDIS+	3	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
BSS 0982				.	.	.	.	.	.
ACCENT+	2.66	OZ/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
BSS 0982				.	.	.	.	.	.
STATUS+	10	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
BSS 0982				0	0	0	0	0	0
STATUS+	10	OZ/A	POST						
OUTLOOK	1.5	PT/A	PRE						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
BSS 0982				0	0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE						
CALLISTO+	3	OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
COC	2	PT/A	POST						
BSS 0982				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ACCENT+	2.66	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	2	QT/A	POST						
FRISKY				0	0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
FRISKY				0	0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						

The Ohio State University

SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code											
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				5/27/08	5/27/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1 WATPRE	1 WATPRE	2 WATPRE	2 WATPRE	3 WATPRE	3 WATPRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
FRISKY				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
FRISKY				.	.	.	.	.	.
LAUDIS+	3	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
FRISKY				.	.	.	.	.	.
ACCENT+	2.66	OZ/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
FRISKY				.	.	.	.	.	.
STATUS+	10	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
FRISKY				0	0	0	0	0	0
STATUS+	10	OZ/A	POST						
OUTLOOK	1.5	PT/A	PRE						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
FRISKY				0	0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE						
CALLISTO+	3	OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
COC	2	PT/A	POST						
FRISKY				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ACCENT+	2.66	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	2	QT/A	POST						

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code											
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				5/27/08	5/27/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1 WATPRE	1 WATPRE	2 WATPRE	2 WATPRE	3 WATPRE	3 WATPRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
GARRISON				0	0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
GARRISON				0	0	0	10	0	0
KIXOR+	8	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
GARRISON				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
GARRISON				.	.	.	.	.	.
LAUDIS+	3	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
GARRISON				.	.	.	.	.	.
ACCENT+	2.66	OZ/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
GARRISON				.	.	.	.	.	.
STATUS+	10	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
GARRISON				0	0	0	0	0	0
STATUS+	10	OZ/A	POST						
OUTLOOK	1.5	PT/A	PRE						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
GARRISON				0	0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE						
CALLISTO+	3	OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
COC	2	PT/A	POST						

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
Weed Code									
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				5/27/08	5/27/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1 WATPRE	1 WATPRE	2 WATPRE	2 WATPRE	3 WATPRE	3 WATPRE
GARRISON				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ACCENT+	2.66	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	2	QT/A	POST						
GSS 0966				0	0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
GSS 0966				0	0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
GSS 0966				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
GSS 0966				.	.	.	.	.	.
LAUDIS+	3	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
GSS 0966				.	.	.	.	.	.
ACCENT+	2.66	OZ/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
GSS 0966				.	.	.	.	.	.
STATUS+	10	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
GSS 0966				0	0	0	0	0	0
STATUS+	10	OZ/A	POST						
OUTLOOK	1.5	PT/A	PRE						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
Weed Code									
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				5/27/08	5/27/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1 WATPRE	1 WATPRE	2 WATPRE	2 WATPRE	3 WATPRE	3 WATPRE
GSS 0966				0	0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE						
CALLISTO+	3	OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
COC	2	PT/A	POST						
GSS 0966				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ACCENT+	2.66	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	2	QT/A	POST						
GSS 2008				0	0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
GSS 2008				0	0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
GSS 2008				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
GSS 2008				.	.	.	.	.	.
LAUDIS+	3	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
GSS 2008				.	.	.	.	.	.
ACCENT+	2.66	OZ/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
GSS 2008				.	.	.	.	.	.
STATUS+	10	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
Weed Code									
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				5/27/08	5/27/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1 WATPRE	1 WATPRE	2 WATPRE	2 WATPRE	3 WATPRE	3 WATPRE
GSS 2008				0	0	0	0	0	0
STATUS+	10	OZ/A	POST						
OUTLOOK	1.5	PT/A	PRE						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
GSS 2008				0	0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE						
CALLISTO+	3	OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
COC	2	PT/A	POST						
GSS 2008				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ACCENT+	2.66	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	2	QT/A	POST						
KRISTINE				0	0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
KRISTINE				0	0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
KRISTINE				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
KRISTINE				.	.	.	.	.	.
LAUDIS+	3	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
KRISTINE				.	.	.	.	.	.
ACCENT+	2.66	OZ/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	1.25	QT/A	POST						

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code											
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				5/27/08	5/27/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1 WATPRE	1 WATPRE	2 WATPRE	2 WATPRE	3 WATPRE	3 WATPRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
KRISTINE				.	.	.	.	.	.
STATUS+	10	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
KRISTINE				0	0	0	0	0	0
STATUS+	10	OZ/A	POST						
OUTLOOK	1.5	PT/A	PRE						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
KRISTINE				0	0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE						
CALLISTO+	3	OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
COC	2	PT/A	POST						
KRISTINE				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ACCENT+	2.66	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	2	QT/A	POST						
MOPNTAUK				0	0	10	20	15	30
KIXOR+	4	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
MOPNTAUK				0	0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
MOPNTAUK				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
MOPNTAUK				.	.	.	.	.	.
LAUDIS+	3	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code											
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				5/27/08	5/27/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1 WATPRE	1 WATPRE	2 WATPRE	2 WATPRE	3 WATPRE	3 WATPRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
MOPNTAUK				.	.	.	.	.	.
ACCENT+	2.66	OZ/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
MOPNTAUK				.	.	.	.	.	.
STATUS+	10	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
MOPNTAUK				0	0	0	0	0	0
STATUS+	10	OZ/A	POST						
OUTLOOK	1.5	PT/A	PRE						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
MOPNTAUK				0	0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE						
CALLISTO+	3	OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
COC	2	PT/A	POST						
MOPNTAUK				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ACCENT+	2.66	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	2	QT/A	POST						
MYSTIQUE				0	0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
MYSTIQUE				0	0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
MYSTIQUE				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code											
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				5/27/08	5/27/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1 WATPRE	1 WATPRE	2 WATPRE	2 WATPRE	3 WATPRE	3 WATPRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
MYSTIQUE				.	.	.	.	.	.
LAUDIS+	3	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
MYSTIQUE				.	.	.	.	.	.
ACCENT+	2.66	OZ/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
MYSTIQUE				.	.	.	.	.	.
STATUS+	10	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
MYSTIQUE				0	0	0	0	0	0
STATUS+	10	OZ/A	POST						
OUTLOOK	1.5	PT/A	PRE						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
MYSTIQUE				0	0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE						
CALLISTO+	3	OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
COC	2	PT/A	POST						
MYSTIQUE				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ACCENT+	2.66	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	2	QT/A	POST						
RISPEN 8000				0	0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
RISPEN 8000				0	0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
Weed Code									
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				5/27/08	5/27/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1 WATPRE	1 WATPRE	2 WATPRE	2 WATPRE	3 WATPRE	3 WATPRE
RISPEN 8000				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
RISPEN 8000				.	.	.	.	.	.
LAUDIS+	3	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
RISPEN 8000				.	.	.	.	.	.
ACCENT+	2.66	OZ/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
RISPEN 8000				.	.	.	.	.	.
STATUS+	10	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
RISPEN 8000				0	0	0	0	0	0
STATUS+	10	OZ/A	POST						
OUTLOOK	1.5	PT/A	PRE						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
RISPEN 8000				0	0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE						
CALLISTO+	3	OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
COC	2	PT/A	POST						
RISPEN 8000				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ACCENT+	2.66	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	2	QT/A	POST						
SWEET SUR				0	0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						

The Ohio State University

SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code											
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				5/27/08	5/27/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1 WATPRE	1 WATPRE	2 WATPRE	2 WATPRE	3 WATPRE	3 WATPRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
SWEET SUR				0	0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
SWEET SUR				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
SWEET SUR				.	.	.	.	.	.
LAUDIS+	3	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
SWEET SUR				.	.	.	.	.	.
ACCENT+	2.66	OZ/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
SWEET SUR				.	.	.	.	.	.
STATUS+	10	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
SWEET SUR				0	0	0	0	0	0
STATUS+	10	OZ/A	POST						
OUTLOOK	1.5	PT/A	PRE						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
SWEET SUR				0	0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE						
CALLISTO+	3	OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
COC	2	PT/A	POST						
SWEET SUR				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ACCENT+	2.66	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	2	QT/A	POST						

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code											
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				5/27/08	5/27/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1 WATPRE	1 WATPRE	2 WATPRE	2 WATPRE	3 WATPRE	3 WATPRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
TRIUMPH				0	0	0	10	0	0
KIXOR+	4	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
TRIUMPH				0	0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
TRIUMPH				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
TRIUMPH				.	.	.	.	.	.
LAUDIS+	3	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
TRIUMPH				.	.	.	.	.	.
ACCENT+	2.66	OZ/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
TRIUMPH				.	.	.	.	.	.
STATUS+	10	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
TRIUMPH				0	0	0	0	0	0
STATUS+	10	OZ/A	POST						
OUTLOOK	1.5	PT/A	PRE						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
TRIUMPH				0	0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE						
CALLISTO+	3	OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
COC	2	PT/A	POST						

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code											
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				5/27/08	5/27/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1 WATPRE	1 WATPRE	2 WATPRE	2 WATPRE	3 WATPRE	3 WATPRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
TRIUMPH				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ACCENT+	2.66	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	2	QT/A	POST						
WH 1163				0	0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
WH 1163				0	0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
WH 1163				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
WH 1163				.	.	.	.	.	.
LAUDIS+	3	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
WH 1163				.	.	.	.	.	.
ACCENT+	2.66	OZ/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
WH 1163				.	.	.	.	.	.
STATUS+	10	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
WH 1163				0	0	0	0	0	0
STATUS+	10	OZ/A	POST						
OUTLOOK	1.5	PT/A	PRE						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
Weed Code									
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				5/27/08	5/27/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1 WATPRE	1 WATPRE	2 WATPRE	2 WATPRE	3 WATPRE	3 WATPRE
WH 1163				0	0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE						
CALLISTO+	3	OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
COC	2	PT/A	POST						
WH 1163				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ACCENT+	2.66	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	2	QT/A	POST						
WH 0809				0	0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
WH 0809				0	0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
WH 0809				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
WH 0809				.	.	.	.	.	.
LAUDIS+	3	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
WH 0809				.	.	.	.	.	.
ACCENT+	2.66	OZ/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
WH 0809				.	.	.	.	.	.
STATUS+	10	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code											
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				5/27/08	5/27/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1 WATPRE	1 WATPRE	2 WATPRE	2 WATPRE	3 WATPRE	3 WATPRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
WH 0809				0	0	0	0	0	0
STATUS+	10	OZ/A	POST						
OUTLOOK	1.5	PT/A	PRE						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
WH 0809				0	0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE						
CALLISTO+	3	OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
COC	2	PT/A	POST						
WH 0809				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ACCENT+	2.66	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	2	QT/A	POST						
WSS 0987				0	0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
WSS 0987				0	0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
WSS 0987				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
WSS 0987				.	.	.	.	.	.
LAUDIS+	3	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
WSS 0987				.	.	.	.	.	.
ACCENT+	2.66	OZ/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	1.25	QT/A	POST						

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
Weed Code									
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				5/27/08	5/27/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1 WATPRE	1 WATPRE	2 WATPRE	2 WATPRE	3 WATPRE	3 WATPRE
WSS 0987				.	.	.	.	.	.
STATUS+	10	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
WSS 0987				0	0	0	0	0	0
STATUS+	10	OZ/A	POST						
OUTLOOK	1.5	PT/A	PRE						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
WSS 0987				0	0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE						
CALLISTO+	3	OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
COC	2	PT/A	POST						
WSS 0987				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ACCENT+	2.66	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	2	QT/A	POST						
XTH 2171				0	0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
XTH 2171				0	0	0	50	0	0
KIXOR+	8	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
XTH 2171				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
XTH 2171				.	.	.	.	.	.
LAUDIS+	3	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
Weed Code									
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				5/27/08	5/27/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1 WATPRE	1 WATPRE	2 WATPRE	2 WATPRE	3 WATPRE	3 WATPRE
XTH 2171				.	.	.	.	.	.
ACCENT+	2.66	OZ/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
XTH 2171				.	.	.	.	.	.
STATUS+	10	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
XTH 2171				0	0	0	0	0	0
STATUS+	10	OZ/A	POST						
OUTLOOK	1.5	PT/A	PRE						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
XTH 2171				0	0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE						
CALLISTO+	3	OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
COC	2	PT/A	POST						
XTH 2171				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ACCENT+	2.66	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	2	QT/A	POST						
XTH 2281				0	0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
XTH 2281				0	0	0	30	0	20
KIXOR+	8	FL OZ/A	PRE						
OUTLOOK	1.5	PT/A	PRE						
XTH 2281				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code											
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				5/27/08	5/27/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1 WATPRE	1 WATPRE	2 WATPRE	2 WATPRE	3 WATPRE	3 WATPRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
XTH 2281				.	.	.	.	.	.
LAUDIS+	3	FL OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
XTH 2281				.	.	.	.	.	.
ACCENT+	2.66	OZ/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
XTH 2281				.	.	.	.	.	.
STATUS+	10	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
XTH 2281				.	.	.	.	.	.
STATUS+	10	OZ/A	POST						
OUTLOOK	1.5	PT/A	PRE						
NIS+	0.5	PT/A	POST						
UAN 28%	1.25	QT/A	POST						
XTH 2281				0	0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE						
CALLISTO+	3	OZ/A	POST						
ATRAZINE+	1	PT/A	POST						
COC	2	PT/A	POST						
XTH 2281				.	.	.	.	.	.
IMPACT+	0.73	FL OZ/A	POST						
ACCENT+	2.66	OZ/A	POST						
NIS+	0.5	PT/A	POST						
UAN 28%	2	QT/A	POST						
LSD (P=.05)				.	.	.	.	.	.
Standard Deviation				.	.	.	.	.	.
CV				.	.	.	.	.	.

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/30/08	6/30/08	7/11/08	7/11/08	7/22/08
Trt-Eval Interval				1WATPOST	1WATPOST	2WATPOST	2WATPOST	4WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	21	22	31
BC 0805				0	0	0	0	30
KIXOR+	4	FL OZ/A	PRE					
	1.5	PT/A	PRE					
BC 0805				0	30	0	30	25
KIXOR+	8	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
BC 0805				0	0	0	0	0
IMPACT+	0.73	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
BC 0805				0	0	0	0	0
LAUDIS+	3	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
BC 0805				0	30	0	15	0
ACCENT+	2.66	OZ/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
BC 0805				10	15	0	25	0
STATUS+	10	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
BC 0805				15	15	0	10	0
STATUS+	10	OZ/A	POST					
OUTLOOK	1.5	PT/A	PRE					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
BC 0805				0	0	0	25	0
DUAL 2 MAG	1.5	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
COC	2	PT/A	POST					

The Ohio State University

SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/30/08	6/30/08	7/11/08	7/11/08	7/22/08
Trt-Eval Interval				1WATPOST	1WATPOST	2WATPOST	2WATPOST	4WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	21	22	31
BC 0805				20	25	0	35	0
IMPACT+	0.73	FL OZ/A	POST					
ACCENT+	2.66	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	2	QT/A	POST					
BC 0808				0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
BC 0808				0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
BC 0808				0	0	0	0	0
IMPACT+	0.73	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
BC 0808				0	0	0	0	0
LAUDIS+	3	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
BC 0808				0	55	0	30	0
ACCENT+	2.66	OZ/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
BC 0808				10	10	0	10	0
STATUS+	10	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
BC 0808				0	0	0	10	10
STATUS+	10	OZ/A	POST					
OUTLOOK	1.5	PT/A	PRE					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/30/08	6/30/08	7/11/08	7/11/08	7/22/08
Trt-Eval Interval				1WATPOST	1WATPOST	2WATPOST	2WATPOST	4WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	21	22	31
BC 0808				0	0	0	25	0
DUAL 2 MAG	1.5	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
COC	2	PT/A	POST					
BC 0808				40	50	0	35	0
IMPACT+	0.73	FL OZ/A	POST					
ACCENT+	2.66	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	2	QT/A	POST					
BRAND 274A				0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
BRAND 274A				0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
BRAND 274A				0	0	0	0	0
IMPACT+	0.73	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
BRAND 274A				0	0	0	0	0
LAUDIS+	3	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
BRAND 274A				0	30	0	20	15
ACCENT+	2.66	OZ/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
BRAND 274A				20	30	0	30	0
STATUS+	10	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/30/08	6/30/08	7/11/08	7/11/08	7/22/08
Trt-Eval Interval				1WATPOST	1WATPOST	2WATPOST	2WATPOST	4WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	21	22	31
BRAND 274A				15	10	0	30	20
STATUS+	10	OZ/A	POST					
OUTLOOK	1.5	PT/A	PRE					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
BRAND 274A				0	0	0	10	0
DUAL 2 MAG	1.5	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
COC	2	PT/A	POST					
BRAND 274A				15	40	0	35	10
IMPACT+	0.73	FL OZ/A	POST					
ACCENT+	2.66	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	2	QT/A	POST					
BSS 0977				0	0	0	0	15
KIXOR+	4	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
BSS 0977				0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
BSS 0977				0	0	0	0	0
IMPACT+	0.73	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
BSS 0977				0	0	0	0	0
LAUDIS+	3	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/30/08	6/30/08	7/11/08	7/11/08	7/22/08
Trt-Eval Interval				1WATPOST	1WATPOST	2WATPOST	2WATPOST	4WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	21	22	31
BSS 0977				0	25	0	15	0
ACCENT+	2.66	OZ/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
BSS 0977				15	20	0	0	0
STATUS+	10	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
BSS 0977				10	15	0	25	15
STATUS+	10	OZ/A	POST					
OUTLOOK	1.5	PT/A	PRE					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
BSS 0977				0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
COC	2	PT/A	POST					
BSS 0977				5	15	0	15	0
IMPACT+	0.73	FL OZ/A	POST					
ACCENT+	2.66	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	2	QT/A	POST					
BSS 0982				0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
BSS 0982				0	15	0	25	20
KIXOR+	8	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
BSS 0982				0	0	0	20	0
IMPACT+	0.73	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/30/08	6/30/08	7/11/08	7/11/08	7/22/08
Trt-Eval Interval				1WATPOST	1WATPOST	2WATPOST	2WATPOST	4WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	21	22	31
BSS 0982				0	0	0	0	15
LAUDIS+	3	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
BSS 0982				15	50	0	30	15
ACCENT+	2.66	OZ/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
BSS 0982				20	20	0	25	0
STATUS+	10	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
BSS 0982				20	0	0	30	15
STATUS+	10	OZ/A	POST					
OUTLOOK	1.5	PT/A	PRE					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
BSS 0982				0	0	0	40	25
DUAL 2 MAG	1.5	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
COC	2	PT/A	POST					
BSS 0982				25	15	0	15	0
IMPACT+	0.73	FL OZ/A	POST					
ACCENT+	2.66	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	2	QT/A	POST					
FRISKY				0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
FRISKY				0	40	0	40	15
KIXOR+	8	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/30/08	6/30/08	7/11/08	7/11/08	7/22/08
Trt-Eval Interval				1WATPOST	1WATPOST	2WATPOST	2WATPOST	4WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	21	22	31
FRISKY				0	15	0	0	0
IMPACT+	0.73	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
FRISKY				0	0	0	0	0
LAUDIS+	3	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
FRISKY				30	25	0	40	45
ACCENT+	2.66	OZ/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
FRISKY				35	30	0	40	15
STATUS+	10	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
FRISKY				15	20	0	15	15
STATUS+	10	OZ/A	POST					
OUTLOOK	1.5	PT/A	PRE					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
FRISKY				0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
COC	2	PT/A	POST					
FRISKY				10	30	0	60	40
IMPACT+	0.73	FL OZ/A	POST					
ACCENT+	2.66	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	2	QT/A	POST					

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/30/08	6/30/08	7/11/08	7/11/08	7/22/08
Trt-Eval Interval				1WATPOST	1WATPOST	2WATPOST	2WATPOST	4WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	21	22	31
GARRISON				0	0	0	0	15
KIXOR+	4	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
GARRISON				0	50	0	0	20
KIXOR+	8	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
GARRISON				0	0	0	0	0
IMPACT+	0.73	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
GARRISON				0	0	0	0	0
LAUDIS+	3	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
GARRISON				0	0	0	50	40
ACCENT+	2.66	OZ/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
GARRISON				15	15	0	0	0
STATUS+	10	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
GARRISON				0	30	0	40	30
STATUS+	10	OZ/A	POST					
OUTLOOK	1.5	PT/A	PRE					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
GARRISON				0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
COC	2	PT/A	POST					

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/30/08	6/30/08	7/11/08	7/11/08	7/22/08
Trt-Eval Interval				1WATPOST	1WATPOST	2WATPOST	2WATPOST	4WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	21	22	31
GARRISON				15	15	0	35	0
IMPACT+	0.73	FL OZ/A	POST					
ACCENT+	2.66	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	2	QT/A	POST					
GSS 0966				0	0	0	0	15
KIXOR+	4	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
GSS 0966				0	30	0	20	35
KIXOR+	8	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
GSS 0966				0	0	0	0	0
IMPACT+	0.73	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
GSS 0966				0	0	0	0	0
LAUDIS+	3	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
GSS 0966				0	0	0	0	0
ACCENT+	2.66	OZ/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
GSS 0966				15	15	0	20	10
STATUS+	10	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
GSS 0966				10	20	0	10	0
STATUS+	10	OZ/A	POST					
OUTLOOK	1.5	PT/A	PRE					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	21	22	31
Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/30/08	6/30/08	7/11/08	7/11/08	7/22/08
Trt-Eval Interval				1WATPOST	1WATPOST	2WATPOST	2WATPOST	4WATPOST
GSS 0966				0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
COC	2	PT/A	POST					
GSS 0966				0	0	0	25	0
IMPACT+	0.73	FL OZ/A	POST					
ACCENT+	2.66	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	2	QT/A	POST					
GSS 2008				0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
GSS 2008				0	0	0	15	0
KIXOR+	8	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
GSS 2008				0	0	0	0	0
IMPACT+	0.73	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
GSS 2008				0	0	0	0	0
LAUDIS+	3	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
GSS 2008				35	15	0	15	0
ACCENT+	2.66	OZ/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
GSS 2008				20	10	0	15	0
STATUS+	10	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	21	22	31
Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/30/08	6/30/08	7/11/08	7/11/08	7/22/08
Trt-Eval Interval				1WATPOST	1WATPOST	2WATPOST	2WATPOST	4WATPOST
GSS 2008				15	0	0	15	0
STATUS+	10	OZ/A	POST					
OUTLOOK	1.5	PT/A	PRE					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
GSS 2008				0	0	0	15	0
DUAL 2 MAG	1.5	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
COC	2	PT/A	POST					
GSS 2008				30	10	0	30	0
IMPACT+	0.73	FL OZ/A	POST					
ACCENT+	2.66	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	2	QT/A	POST					
KRISTINE				0	0	0	30	15
KIXOR+	4	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
KRISTINE				0	0	0	25	15
KIXOR+	8	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
KRISTINE				0	0	0	0	0
IMPACT+	0.73	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
KRISTINE				0	0	0	0	0
LAUDIS+	3	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
KRISTINE				10	0	0	15	0
ACCENT+	2.66	OZ/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	1.25	QT/A	POST					

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/30/08	6/30/08	7/11/08	7/11/08	7/22/08
Trt-Eval Interval				1WATPOST	1WATPOST	2WATPOST	2WATPOST	4WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	21	22	31
KRISTINE				20	20	0	30	20
STATUS+	10	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
KRISTINE				20	40	0	45	30
STATUS+	10	OZ/A	POST					
OUTLOOK	1.5	PT/A	PRE					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
KRISTINE				0	0	0	30	0
DUAL 2 MAG	1.5	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
COC	2	PT/A	POST					
KRISTINE				10	15	0	40	10
IMPACT+	0.73	FL OZ/A	POST					
ACCENT+	2.66	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	2	QT/A	POST					
MOPNTAUK				0	60	0	40	40
KIXOR+	4	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
MOPNTAUK				0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
MOPNTAUK				0	0	0	0	0
IMPACT+	0.73	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
MOPNTAUK				0	0	0	20	30
LAUDIS+	3	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/30/08	6/30/08	7/11/08	7/11/08	7/22/08
Trt-Eval Interval				1WATPOST	1WATPOST	2WATPOST	2WATPOST	4WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	21	22	31
MOPNTAUK				15	30	0	35	0
ACCENT+	2.66	OZ/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
MOPNTAUK				15	15	0	15	0
STATUS+	10	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
MOPNTAUK				30	40	0	40	25
STATUS+	10	OZ/A	POST					
OUTLOOK	1.5	PT/A	PRE					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
MOPNTAUK				0	0	0	10	0
DUAL 2 MAG	1.5	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
COC	2	PT/A	POST					
MOPNTAUK				10	10	0	30	0
IMPACT+	0.73	FL OZ/A	POST					
ACCENT+	2.66	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	2	QT/A	POST					
MYSTIQUE				0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
MYSTIQUE				0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
MYSTIQUE				0	30	0	15	0
IMPACT+	0.73	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/30/08	6/30/08	7/11/08	7/11/08	7/22/08
Trt-Eval Interval				1WATPOST	1WATPOST	2WATPOST	2WATPOST	4WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	21	22	31
MYSTIQUE				0	0	0	0	0
LAUDIS+	3	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
MYSTIQUE				0	20	0	35	50
ACCENT+	2.66	OZ/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
MYSTIQUE				25	30	0	45	50
STATUS+	10	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
MYSTIQUE				15	30	0	40	35
STATUS+	10	OZ/A	POST					
OUTLOOK	1.5	PT/A	PRE					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
MYSTIQUE				0	20	0	30	0
DUAL 2 MAG	1.5	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
COC	2	PT/A	POST					
MYSTIQUE				0	20	0	70	70
IMPACT+	0.73	FL OZ/A	POST					
ACCENT+	2.66	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	2	QT/A	POST					
RISPEN 8000				0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
RISPEN 8000				0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/30/08	6/30/08	7/11/08	7/11/08	7/22/08
Trt-Eval Interval				1WATPOST	1WATPOST	2WATPOST	2WATPOST	4WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	21	22	31
RISPEN 8000				0	0	0	0	0
IMPACT+	0.73	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
RISPEN 8000				0	0	0	0	0
LAUDIS+	3	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
RISPEN 8000				50	25	0	10	0
ACCENT+	2.66	OZ/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
RISPEN 8000				40	15	0	30	15
STATUS+	10	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
RISPEN 8000				25	15	0	20	15
STATUS+	10	OZ/A	POST					
OUTLOOK	1.5	PT/A	PRE					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
RISPEN 8000				0	0	0	15	0
DUAL 2 MAG	1.5	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
COC	2	PT/A	POST					
RISPEN 8000				25	30	0	30	0
IMPACT+	0.73	FL OZ/A	POST					
ACCENT+	2.66	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	2	QT/A	POST					
SWEET SUR				0	0	0	0	15
KIXOR+	4	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	21	22	31
Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/30/08	6/30/08	7/11/08	7/11/08	7/22/08
Trt-Eval Interval				1WATPOST	1WATPOST	2WATPOST	2WATPOST	4WATPOST
SWEET SUR				0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
SWEET SUR				0	0	0	0	0
IMPACT+	0.73	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
SWEET SUR				0	0	0	0	0
LAUDIS+	3	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
SWEET SUR				15	20	0	30	10
ACCENT+	2.66	OZ/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
SWEET SUR				15	25	0	35	15
STATUS+	10	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
SWEET SUR				25	0	0	15	15
STATUS+	10	OZ/A	POST					
OUTLOOK	1.5	PT/A	PRE					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
SWEET SUR				0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
COC	2	PT/A	POST					
SWEET SUR				20	10	0	30	0
IMPACT+	0.73	FL OZ/A	POST					
ACCENT+	2.66	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	2	QT/A	POST					

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/30/08	6/30/08	7/11/08	7/11/08	7/22/08
Trt-Eval Interval				1WATPOST	1WATPOST	2WATPOST	2WATPOST	4WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	21	22	31
TRIUMPH				0	0	0	0	10
KIXOR+	4	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
TRIUMPH				0	0	0	0	15
KIXOR+	8	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
TRIUMPH				0	0	0	15	0
IMPACT+	0.73	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
TRIUMPH				0	0	0	0	20
LAUDIS+	3	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
TRIUMPH				25	15	0	20	0
ACCENT+	2.66	OZ/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
TRIUMPH				15	15	0	25	20
STATUS+	10	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
TRIUMPH				20	20	0	30	25
STATUS+	10	OZ/A	POST					
OUTLOOK	1.5	PT/A	PRE					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
TRIUMPH				0	0	0	15	0
DUAL 2 MAG	1.5	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
COC	2	PT/A	POST					

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/30/08	6/30/08	7/11/08	7/11/08	7/22/08
Trt-Eval Interval				1WATPOST	1WATPOST	2WATPOST	2WATPOST	4WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	21	22	31
TRIUMPH				20	30	0	15	0
IMPACT+	0.73	FL OZ/A	POST					
ACCENT+	2.66	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	2	QT/A	POST					
WH 1163				0	0	0	30	10
KIXOR+	4	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
WH 1163				0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
WH 1163				0	0	0	15	0
IMPACT+	0.73	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
WH 1163				0	0	0	0	0
LAUDIS+	3	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
WH 1163				10	30	0	0	0
ACCENT+	2.66	OZ/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
WH 1163				15	0	0	0	0
STATUS+	10	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
WH 1163				0	15	0	15	5
STATUS+	10	OZ/A	POST					
OUTLOOK	1.5	PT/A	PRE					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	21	22	31
Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/30/08	6/30/08	7/11/08	7/11/08	7/22/08
Trt-Eval Interval				1WATPOST	1WATPOST	2WATPOST	2WATPOST	4WATPOST
WH 1163				0	0	0	10	0
DUAL 2 MAG	1.5	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
COC	2	PT/A	POST					
WH 1163				10	25	0	15	0
IMPACT+	0.73	FL OZ/A	POST					
ACCENT+	2.66	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	2	QT/A	POST					
WH 0809				0	45	0	30	15
KIXOR+	4	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
WH 0809				0	0	0	0	30
KIXOR+	8	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
WH 0809				0	0	0	10	0
IMPACT+	0.73	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
WH 0809				0	0	0	0	0
LAUDIS+	3	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
WH 0809				30	50	0	25	0
ACCENT+	2.66	OZ/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
WH 0809				20	15	0	20	15
STATUS+	10	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/30/08	6/30/08	7/11/08	7/11/08	7/22/08
Trt-Eval Interval				1WATPOST	1WATPOST	2WATPOST	2WATPOST	4WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	21	22	31
WH 0809				15	5	0	15	0
STATUS+	10	OZ/A	POST					
OUTLOOK	1.5	PT/A	PRE					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
WH 0809				0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
COC	2	PT/A	POST					
WH 0809				30	50	0	35	0
IMPACT+	0.73	FL OZ/A	POST					
ACCENT+	2.66	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	2	QT/A	POST					
WSS 0987				0	0	0	0	10
KIXOR+	4	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
WSS 0987				0	0	0	0	0
KIXOR+	8	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
WSS 0987				0	0	0	15	15
IMPACT+	0.73	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
WSS 0987				0	0	0	15	15
LAUDIS+	3	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
WSS 0987				30	20	0	0	0
ACCENT+	2.66	OZ/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	1.25	QT/A	POST					

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/30/08	6/30/08	7/11/08	7/11/08	7/22/08
Trt-Eval Interval				1WATPOST	1WATPOST	2WATPOST	2WATPOST	4WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	21	22	31
WSS 0987				15	0	0	0	0
STATUS+	10	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
WSS 0987				10	10	0	30	0
STATUS+	10	OZ/A	POST					
OUTLOOK	1.5	PT/A	PRE					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
WSS 0987				0	0	0	20	0
DUAL 2 MAG	1.5	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
COC	2	PT/A	POST					
WSS 0987				10	10	0	20	0
IMPACT+	0.73	FL OZ/A	POST					
ACCENT+	2.66	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	2	QT/A	POST					
XTH 2171				0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
XTH 2171				0	30	0	40	45
KIXOR+	8	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
XTH 2171				0	0	0	40	0
IMPACT+	0.73	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
XTH 2171				0	0	0	0	0
LAUDIS+	3	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/30/08	6/30/08	7/11/08	7/11/08	7/22/08
Trt-Eval Interval				1WATPOST	1WATPOST	2WATPOST	2WATPOST	4WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	21	22	31
XTH 2171				30	30	0	40	30
ACCENT+	2.66	OZ/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
XTH 2171				30	15	0	30	0
STATUS+	10	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
XTH 2171				20	40	0	50	35
STATUS+	10	OZ/A	POST					
OUTLOOK	1.5	PT/A	PRE					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
XTH 2171				0	0	0	30	0
DUAL 2 MAG	1.5	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
COC	2	PT/A	POST					
XTH 2171				20	35	0	45	0
IMPACT+	0.73	FL OZ/A	POST					
ACCENT+	2.66	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	2	QT/A	POST					
XTH 2281				0	0	0	0	0
KIXOR+	4	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
XTH 2281				0	0	0	30	35
KIXOR+	8	FL OZ/A	PRE					
OUTLOOK	1.5	PT/A	PRE					
XTH 2281				0	0	0	0	0
IMPACT+	0.73	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					

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SWEET CORN - SENSITIVITY OF TWENTY VARIETIES TO HERBICIDES

Trial ID: SWCN8VARW2008
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	STUNT	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/30/08	6/30/08	7/11/08	7/11/08	7/22/08
Trt-Eval Interval				1WATPOST	1WATPOST	2WATPOST	2WATPOST	4WATPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	21	22	31
XTH 2281				0	0	0	0	0
LAUDIS+	3	FL OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
XTH 2281				20	35	0	15	0
ACCENT+	2.66	OZ/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
XTH 2281				20	0	0	0	0
STATUS+	10	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
XTH 2281				25	20	0	30	5
STATUS+	10	OZ/A	POST					
OUTLOOK	1.5	PT/A	PRE					
NIS+	0.5	PT/A	POST					
UAN 28%	1.25	QT/A	POST					
XTH 2281				0	0	0	0	0
DUAL 2 MAG	1.5	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
ATRAZINE+	1	PT/A	POST					
COC	2	PT/A	POST					
XTH 2281				20	10	0	15	0
IMPACT+	0.73	FL OZ/A	POST					
ACCENT+	2.66	OZ/A	POST					
NIS+	0.5	PT/A	POST					
UAN 28%	2	QT/A	POST					
LSD (P=.05)				.	.	.	.	.
Standard Deviation				.	.	.	.	.
CV				.	.	.	.	.

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TOMATOES - EFFECT OF SIMULATED DICAMBA DRIFT ONTO PROCESSING TOMATOES

Trial ID: TOMDICAMBAW2008
Location: Wooster, Ohio

Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Objective: To determine effect of various drift concentrations of dicamba (Clarity) onto processing tomatoes. Specific measurements will include : 1) time of injury and symptoms caused, level of plant injury, plant death or effect on fruit maturity and yield.

TRIAL SUMMARY:

Dicamba at very low rates can injure tomatoes, and at 0.16 oz/A can significantly affect yield. Gem 611 and Gem 818 processing tomato were evaluated for response to dicamba three weeks after transplantingand early bloom. The normal use rate of Clarity on soybeans is 8oz/A (1X). Rates used were: .053 (1/300X), 0.16 (1/100X), and 0.53 (1/30X) oz/A. Plots were rated for crop injury and yield. Dicamba drift during the post-transplant vegetative stage of tomato causes greater yield loss than at early bloom stage.

TRIAL LOCATION

City: Wooster
State/Prov.: Ohio
Postal Code: 44691
Country: USA

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 06/13/08
Planned Completion Date: 10/31/08

Crop 1: LYPES	PROCESSING TOMATO	Variety: GEM 611, GEM 818
Planting Date: 06/12/08		Planting Method: CONVENTIONAL
Rate: 1 PLANT/18"		Depth: 2 IN
Row Spacing: 5 FT		Spacing Within Row: 18 IN

SITE AND DESIGN

Plot Width, Unit: 5 FT	Plot Length, Unit: 20 FT
Site Type: LEVEL FIELD	Reps: 4
Tillage Type: CHISEL PLOW	Study Design: SPLIT-PLOT

SOIL DESCRIPTION

% Sand: 16	% OM: 3.11	Texture: SILT LOAM
% Silt: 72	pH: 6.86	Soil Name: WOOSTER SILT LOAM
% Clay: 12	CEC: 8.5	Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A	B
Application Date:	7/1/2008	7/15/2008
Time of Day:	10-11 AM	9-10 AM
Application Method:	SPRAY	SPRAY
Application Timing:	POST A	POST B
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	69.7 F	70.2 F
% Relative Humidity:	54.4	70.7
Wind Velocity, Unit:	1.6 MPH	2.5 MPH
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	30	50

The Ohio State University

TOMATOES - EFFECT OF SIMULATED DICAMBA DRIFT ONTO PROCESSING TOMATOES

Trial ID: TOMDICAMBAW2008 Study Dir.: Doug Doohan and Tim Koch
Location: Wooster, Ohio Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	LYPES, POST A	LYPES, POST B
Stage Scale:	VEGETATIVE	EARLY BLOOM
Height, Unit:	6 IN	10 IN

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	40	40
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8002VS	8002VS
Nozzle Spacing, Unit:	15 IN	15 IN
Nozzles/Row:	4	4
Band Width, Unit:	60 IN	60 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	H2O	H2O
Spray Volume, Unit:	25 GPA	25 GPA
Propellant:	CO2	CO2

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Trial ID: TOMDICAMBAW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code								
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				INJURY	INJURY	INJURY	INJURY	INJURY
Rating Unit				%	%	%	%	%
Rating Date				7/3/08	7/9/08	7/16/08	7/23/08	8/18/08
Trt-Eval Interval				3DATPOSA	7DATPOSA	14DATPOA	21DATPOA	48DATPOA
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
TIMING 1			POST	0	0	0	0	0
CONTROL								
GEM 818								
TIMING 1			POST	0	0	0	0	0
CONTROL								
GEM 611								
TIMING 1			POST	0	38	34	14	8
CLARITY+	0.0533	OZ/A						
AMS+	2.5	LB/A						
NIS	0.5	PT/A						
GEM 818								
TIMING 1			POST	3	36	21	16	8
CLARITY+	0.0533	OZ/A						
AMS+	2.5	LB/A						
NIS	0.5	PT/A						
GEM 611								
TIMING 1			POST	8	45	35	11	8
CLARITY+	0.16	OZ/A						
AMS+	2.5	LB/A						
NIS	0.5	PT/A						
GEM 818								
TIMING 1			POST	6	36	39	16	5
CLARITY+	0.16	OZ/A						
AMS+	2.5	LB/A						
NIS	0.5	PT/A						
GEM 611								
TIMING 1			POST	58	45	53	34	24
CLARITY+	0.53	OZ/A						
AMS+	2.5	LB/A						
NIS	0.5	PT/A						
GEM 818								

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TOMATOES - EFFECT OF SIMULATED DICAMBA DRIFT ONTO PROCESSING TOMATOES

Trial ID: TOMDICAMBAW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code								
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				INJURY	INJURY	INJURY	INJURY	INJURY
Rating Unit				%	%	%	%	%
Rating Date				7/3/08	7/9/08	7/16/08	7/23/08	8/18/08
Trt-Eval Interval				3DATPOSA	7DATPOSA	14DATPOA	21DATPOA	48DATPOA
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
TIMING 1			POST	58	53	55	44	29
CLARITY+	0.53	OZ/A						
AMS+	2.5	LB/A						
NIS	0.5	PT/A						
GEM 611								
TIMING 2			POST	.	.	.	.	.
CONTROL								
GEM 818								
TIMING 2			POST	.	.	.	.	.
CONTROL								
GEM 611								
TIMING 2			POST	.	.	.	.	.
CLARITY+	0.0533	OZ/A						
AMS+	2.5	LB/A						
NIS	0.5	PT/A						
GEM 818								
TIMING 2			POST	.	.	.	.	.
CLARITY+	0.0533	OZ/A						
AMS+	2.5	LB/A						
NIS	0.5	PT/A						
GEM 611								
TIMING 2			POST	.	.	.	.	.
CLARITY+	0.16	OZ/A						
AMS+	2.5	LB/A						
NIS	0.5	PT/A						
GEM 818								
TIMING 2			POST	.	.	.	.	.
CLARITY+	0.16	OZ/A						
AMS+	2.5	LB/A						
NIS	0.5	PT/A						

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TOMATOES - EFFECT OF SIMULATED DICAMBA DRIFT ONTO PROCESSING TOMATOES

Trial ID: TOMDICAMBAW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code								
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				INJURY	INJURY	INJURY	INJURY	INJURY
Rating Unit				%	%	%	%	%
Rating Date				7/3/08	7/9/08	7/16/08	7/23/08	8/18/08
Trt-Eval Interval				3DATPOSA	7DATPOSA	14DATPOA	21DATPOA	48DATPOA
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
GEM 611								
TIMING 2			POST	.	.	.	.	.
CLARITY+	0.53	OZ/A						
AMS+	2.5	LB/A						
NIS	0.5	PT/A						
GEM 818								
TIMING 2			POST	.	.	.	.	.
CLARITY+	0.53	OZ/A						
AMS+	2.5	LB/A						
NIS	0.5	PT/A						
GEM 611								
LSD (P=.05)				6	7	7	12	11
Standard Deviation				4	5	5	8	7
CV				26	15	16	48	73

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TOMATOES - EFFECT OF SIMULATED DICAMBA DRIFT ONTO PROCESSING TOMATOES

Trial ID: TOMDICAMBAW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code								
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				INJURY	INJURY	INJURY	INJURY	BLOOM INCR
Rating Unit				%	%	%	%	%
Rating Date				7/18/08	7/22/08	7/29/08	8/5/08	8/11/08
Trt-Eval Interval				3DATPOSB	7DATPOSB	14DATPOB	21DATPOB	28DATPOB
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
TIMING 1			POST	.	.	.	.	0
CONTROL								
GEM 818								
TIMING 1			POST	.	.	.	.	0
CONTROL								
GEM 611								
TIMING 1			POST	.	.	.	.	13
CLARITY+	0.0533	OZ/A						
AMS+	2.5	LB/A						
NIS	0.5	PT/A						
GEM 818								
TIMING 1			POST	.	.	.	.	13
CLARITY+	0.0533	OZ/A						
AMS+	2.5	LB/A						
NIS	0.5	PT/A						
GEM 611								
TIMING 1			POST	.	.	.	.	6
CLARITY+	0.16	OZ/A						
AMS+	2.5	LB/A						
NIS	0.5	PT/A						
GEM 818								
TIMING 1			POST	.	.	.	.	6
CLARITY+	0.16	OZ/A						
AMS+	2.5	LB/A						
NIS	0.5	PT/A						
GEM 611								
TIMING 1			POST	.	.	.	.	69
CLARITY+	0.53	OZ/A						
AMS+	2.5	LB/A						
NIS	0.5	PT/A						
GEM 818								

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TOMATOES - EFFECT OF SIMULATED DICAMBA DRIFT ONTO PROCESSING TOMATOES

Trial ID: TOMDICAMBAW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code								
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				INJURY	INJURY	INJURY	INJURY	BLOOM INCR
Rating Unit				%	%	%	%	%
Rating Date				7/18/08	7/22/08	7/29/08	8/5/08	8/11/08
Trt-Eval Interval				3DATPOSB	7DATPOSB	14DATPOB	21DATPOB	28DATPOB
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
TIMING 1			POST	.	.	.	.	69
CLARITY+	0.53	OZ/A						
AMS+	2.5	LB/A						
NIS	0.5	PT/A						
GEM 611								
TIMING 2			POST	0	0	0	0	0
CONTROL								
GEM 818								
TIMING 2			POST	0	0	0	0	0
CONTROL								
GEM 611								
TIMING 2			POST	10	21	26	25	4
CLARITY+	0.0533	OZ/A						
AMS+	2.5	LB/A						
NIS	0.5	PT/A						
GEM 818								
TIMING 2			POST	8	15	20	18	4
CLARITY+	0.0533	OZ/A						
AMS+	2.5	LB/A						
NIS	0.5	PT/A						
GEM 611								
TIMING 2			POST	19	25	39	38	5
CLARITY+	0.16	OZ/A						
AMS+	2.5	LB/A						
NIS	0.5	PT/A						
GEM 818								
TIMING 2			POST	11	9	28	23	3
CLARITY+	0.16	OZ/A						
AMS+	2.5	LB/A						
NIS	0.5	PT/A						

The Ohio State University

TOMATOES - EFFECT OF SIMULATED DICAMBA DRIFT ONTO PROCESSING TOMATOES

Trial ID: TOMDICAMBAW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code								
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				INJURY	INJURY	INJURY	INJURY	BLOOM INCR
Rating Unit				%	%	%	%	%
Rating Date				7/18/08	7/22/08	7/29/08	8/5/08	8/11/08
Trt-Eval Interval				3DATPOSB	7DATPOSB	14DATPOB	21DATPOB	28DATPOB
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
GEM 611								
TIMING 2			POST	29	16	36	33	13
CLARITY+	0.53	OZ/A						
AMS+	2.5	LB/A						
NIS	0.5	PT/A						
GEM 818								
TIMING 2			POST	26	11	30	34	10
CLARITY+	0.53	OZ/A						
AMS+	2.5	LB/A						
NIS	0.5	PT/A						
GEM 611								
LSD (P=.05)				15	20	23	20	14
Standard Deviation				10	14	15	13	10
CV				80	112	68	64	75

The Ohio State University

TOMATOES - EFFECT OF SIMULATED DICAMBA DRIFT ONTO PROCESSING TOMATOES

Trial ID: TOMDICAMBAW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code									
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	FRUIT	FRUIT	PLANT	FRUIT	FRUIT
Rating Data Type				INJURY	RED	GREEN	WEIGHT	RED	GREEN
Rating Unit				%	LBS/PLOT	LBS/PLOT	LBS/PLOT	TONS/A	TONS/A
Rating Date				8/26/08	9/23/08	9/23/08	9/23/08	9/23/08	9/23/08
Trt-Eval Interval				48DATPOB	HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15	16
TIMING 1			POST		32.6	11.2	9.5	15.8	5.4
CONTROL									
GEM 818									
TIMING 1			POST		44.6	11.5	11.6	21.6	5.6
CONTROL									
GEM 611									
TIMING 1			POST		32.2	11.5	8.9	15.6	5.6
CLARITY+	0.0533	OZ/A							
AMS+	2.5	LB/A							
NIS	0.5	PT/A							
GEM 818									
TIMING 1			POST		32.7	11.0	8.8	15.8	5.3
CLARITY+	0.0533	OZ/A							
AMS+	2.5	LB/A							
NIS	0.5	PT/A							
GEM 611									
TIMING 1			POST		33.1	12.5	9.9	16.0	6.1
CLARITY+	0.16	OZ/A							
AMS+	2.5	LB/A							
NIS	0.5	PT/A							
GEM 818									
TIMING 1			POST		31.1	14.3	9.9	15.0	6.9
CLARITY+	0.16	OZ/A							
AMS+	2.5	LB/A							
NIS	0.5	PT/A							
GEM 611									
TIMING 1			POST		20.3	28.3	9.8	9.8	13.7
CLARITY+	0.53	OZ/A							
AMS+	2.5	LB/A							
NIS	0.5	PT/A							
GEM 818									

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TOMATOES - EFFECT OF SIMULATED DICAMBA DRIFT ONTO PROCESSING TOMATOES

Trial ID: TOMDICAMBAW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code										
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	
Part Rated				PLANT	FRUIT	FRUIT	PLANT	FRUIT	FRUIT	
Rating Data Type				INJURY	RED	GREEN	WEIGHT	RED	GREEN	
Rating Unit				%	LBS/PLOT	LBS/PLOT	LBS/PLOT	TONS/A	TONS/A	
Rating Date				8/26/08	9/23/08	9/23/08	9/23/08	9/23/08	9/23/08	
Trt-Eval Interval				48DATPOB	HARVEST	HARVEST	HARVEST	HARVEST	HARVEST	
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15	16	
TIMING 1			POST		17.3	25.5	9.4	8.4	12.3	
CLARITY+	0.53	OZ/A								
AMS+	2.5	LB/A								
NIS	0.5	PT/A								
GEM 611										
TIMING 2			POST	0	38.4	9.0	8.9	18.6	4.4	
CONTROL										
GEM 818										
TIMING 2			POST	0	43.2	12.6	10.9	20.9	6.1	
CONTROL										
GEM 611										
TIMING 2			POST	15	29.6	9.1	7.1	14.3	4.4	
CLARITY+	0.0533	OZ/A								
AMS+	2.5	LB/A								
NIS	0.5	PT/A								
GEM 818										
TIMING 2			POST	10	35.3	10.7	8.9	17.1	5.2	
CLARITY+	0.0533	OZ/A								
AMS+	2.5	LB/A								
NIS	0.5	PT/A								
GEM 611										
TIMING 2			POST	24	32.9	9.2	8.2	15.9	4.4	
CLARITY+	0.16	OZ/A								
AMS+	2.5	LB/A								
NIS	0.5	PT/A								
GEM 818										
TIMING 2			POST	29	42.8	10.3	9.8	20.7	5.0	
CLARITY+	0.16	OZ/A								
AMS+	2.5	LB/A								
NIS	0.5	PT/A								

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TOMATOES - EFFECT OF SIMULATED DICAMBA DRIFT ONTO PROCESSING TOMATOES

Trial ID: TOMDICAMBAW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code									
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	FRUIT	FRUIT	PLANT	FRUIT	FRUIT
Rating Data Type				INJURY	RED	GREEN	WEIGHT	RED	GREEN
Rating Unit				%	LBS/PLOT	LBS/PLOT	LBS/PLOT	TONS/A	TONS/A
Rating Date				8/26/08	9/23/08	9/23/08	9/23/08	9/23/08	9/23/08
Trt-Eval Interval				48DATPOB	HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15	16
GEM 611									
TIMING 2			POST	20	26.9	12.8	8.9	13.0	6.2
CLARITY+	0.53	OZ/A							
AMS+	2.5	LB/A							
NIS	0.5	PT/A							
GEM 818									
TIMING 2			POST	9	26.3	22.6	10.9	12.7	11.0
CLARITY+	0.53	OZ/A							
AMS+	2.5	LB/A							
NIS	0.5	PT/A							
GEM 611									
LSD (P=.05)				16	12	7	3	6	3
Standard Deviation				11	9	5	2	4	2
CV				81	27	36	22	27	36

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TOMATOES- VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008 Study Dir.: Doug Doohan and Tim Koch
Location: Wooster, Ohio Investigator: Doug Doohan

Objective: To rank tolerance of new Ohio tomato varieties to Harmony GT.

Trial Summary: This trial involved tolerance of processing tomato varieties to Harmony GT . Tomato varieties were: HZ 9704, HZ 3402, TSH4, GEM 331, GEM611, and GEM 818. A blanket application of Dual Magnum at 1.33 pt/A was applied PRE. Harmony GT was applied POST at 0, 8, and 16 g/ha at two timings: 3 weeks after tranplanting (POST A), and early bloom (POST B). Ratings were taken at 1, 3, and 6 weeks after each treatment (WAT). At 3WAT, HZ 3402 was the variety showing the most injury with both timings, resulting in significant yield loss. Plant stunting was 50% when Harmony was applied at (POST A), and 15% at (POST B). The pre-bloom spray (POST B) initiated a late bloom flush resulting in an almost equal yield of red and green fruit.

TRIAL LOCATION

City: Wooster Trial Status: Final
State/Prov.: Ohio Trial Reliability: Reliable
Postal Code: 44691 Initiation Date: 05/20/08
Country: USA Planned Completion Date: 10/15/08

Crop 1: LYPES TOMATO Variety: SIX VARIETIES
Planting Date: 05/20/08 Planting Method: CONVENTIONAL

Rate: 1 PLANT PER 12" Depth: 2 IN
Row Spacing: 5 FT Spacing Within Row: 18 IN

SITE AND DESIGN

Plot Width, Unit: 10 FT Plot Length, Unit: 70 FT
Site Type: LEVEL FIELD Reps: 1
Tillage Type: CHISEL PLOW Study Design: SPLIT-PLOT

SOIL DESCRIPTION

% Sand: 16 % OM: 3.11 Texture: SILT LOAM
% Silt: 72 pH: 6.86 Soil Name: WOOSTER SILT LOAM
% Clay: 12 CEC: 8.5 Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A	B	C
Application Date:	5/19/2008	6/11/2008	6/24/2008
Time of Day:	10 AM	2 PM	10 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRETP	POST A	POST B
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	49.2 F	81.8 F	67.3 F
% Relative Humidity:	65.2	54.9	80
Wind Velocity, Unit:	7 MPH	5.1 MPH	1.7 MPH
Soil Moisture:	MOIST	MOIST	MOIST
% Cloud Cover:	50	60	80

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TOMATOES- VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008 Study Dir.: Doug Doohan and Tim Koch
Location: Wooster, Ohio Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	LYPES, PRETP	LYPES, POST A	LYPES, POST B
Stage Scale:	.	VEGETATIVE	EARLY BLOOM
Height, Unit:	0. .	6 IN	10 IN

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK
Operating Pressure:	40	40	40
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	8002VS	8002VS	8002VS
Nozzle Spacing, Unit:	15 IN	15 IN	15 IN
Nozzles/Row:	4	4	4
Band Width, Unit:	60 IN	60 IN	60 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	H2O	H2O	H2O
Spray Volume, Unit:	25 GPA	25 GPA	25 GPA
Propellant:	CO2	CO2	CO2

The Ohio State University

TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code										
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				BURN	STUNT	CHLOROSIS	LEAF CURL	BURN	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				6/3/08	6/3/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1WAPRETP	1WAPRETP	1WAPRETP	1WAPRETP	3WAPRETP	3WAPRETP
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
GEM 331									
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
GEM 611									
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
GEM 818									
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
HEINZ 9704									
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
HEINZ 3402									
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
TSH 4									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 331									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 611									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 818									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
HEINZ 9704									

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TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code										
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				BURN	STUNT	CHLOROSIS	LEAF CURL	BURN	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				6/3/08	6/3/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1WAPRETP	1WAPRETP	1WAPRETP	1WAPRETP	3WAPRETP	3WAPRETP
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
HEINZ 3402									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
TSH 4									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 331									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 611									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 818									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
HEINZ 9704									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
HEINZ 3402									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
TSH 4									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 331									

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TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code										
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				BURN	STUNT	CHLOROSIS	LEAF CURL	BURN	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				6/3/08	6/3/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1WAPRETP	1WAPRETP	1WAPRETP	1WAPRETP	3WAPRETP	3WAPRETP
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 611									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 818									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
HEINZ 9704									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
HEINZ 3402									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
TSH 4									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 331									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 611									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 818									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
HEINZ 9704									

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TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code										
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				BURN	STUNT	CHLOROSIS	LEAF CURL	BURN	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				6/3/08	6/3/08	6/3/08	6/3/08	6/10/08	6/10/08
Trt-Eval Interval				1WAPRETP	1WAPRETP	1WAPRETP	1WAPRETP	3WAPRETP	3WAPRETP
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
HEINZ 3402									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
TSH 4									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
GEM 331									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
GEM 611									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
GEM 818									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
HEINZ 9704									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
OH 7983									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
TSH 4									
LSD (P=.05)				.	.	.	.	.	.
Standard Deviation				.	.	.	.	.	.
CV				.	.	.	.	.	.

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TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code											
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	LEAF CURL	STUNT	CHLOROSIS	LEAF CURL	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				6/10/08	6/10/08	6/13/08	6/13/08	6/13/08	6/6/08
Trt-Eval Interval				3WAPRETP	3WAPRETP	3DATPOSA	3DATPOSA	3DATPOSA	1WATPOSA
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
GEM 331									
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
GEM 611									
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
GEM 818									
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
HEINZ 9704									
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
HEINZ 3402									
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
TSH 4									
Dual Magnum	1.33	PT/A	PRE	.	.	0	10	0	20
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 331									
Dual Magnum	1.33	PT/A	PRE	.	.	0	10	0	20
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 611									
Dual Magnum	1.33	PT/A	PRE	.	.	0	10	0	50
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 818									
Dual Magnum	1.33	PT/A	PRE	.	.	10	5	15	30
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
HEINZ 9704									

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TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code											
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	LEAF CURL	STUNT	CHLOROSIS	LEAF CURL	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				6/10/08	6/10/08	6/13/08	6/13/08	6/13/08	6/6/08
Trt-Eval Interval				3WAPRETP	3WAPRETP	3DATPOSA	3DATPOSA	3DATPOSA	1WATPOSA
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
Dual Magnum	1.33	PT/A	PRE	.	.	40	5	10	70
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
HEINZ 3402									
Dual Magnum	1.33	PT/A	PRE	.	.	15	5	5	20
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
TSH 4									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 331									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 611									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 818									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
HEINZ 9704									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
HEINZ 3402									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
TSH 4									
Dual Magnum	1.33	PT/A	PRE	.	.	15	10	5	20
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 331									

The Ohio State University

TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code											
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	LEAF CURL	STUNT	CHLOROSIS	LEAF CURL	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				6/10/08	6/10/08	6/13/08	6/13/08	6/13/08	6/6/08
Trt-Eval Interval				3WAPRETP	3WAPRETP	3DATPOSA	3DATPOSA	3DATPOSA	1WATPOSA
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
Dual Magnum	1.33	PT/A	PRE	.	.	0	10	10	20
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 611									
Dual Magnum	1.33	PT/A	PRE	.	.	15	10	10	40
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 818									
Dual Magnum	1.33	PT/A	PRE	.	.	25	5	20	30
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
HEINZ 9704									
Dual Magnum	1.33	PT/A	PRE	.	.	35	10	15	60
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
HEINZ 3402									
Dual Magnum	1.33	PT/A	PRE	.	.	20	10	25	30
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
TSH 4									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 331									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 611									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 818									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
HEINZ 9704									

The Ohio State University

TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code											
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	LEAF CURL	STUNT	CHLOROSIS	LEAF CURL	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				6/10/08	6/10/08	6/13/08	6/13/08	6/13/08	6/6/08
Trt-Eval Interval				3WAPRETP	3WAPRETP	3DATPOSA	3DATPOSA	3DATPOSA	1WATPOSA
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
HEINZ 3402									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
TSH 4									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
GEM 331									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
GEM 611									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
GEM 818									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
HEINZ 9704									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
OH 7983									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
TSH 4									
LSD (P=.05)				.	.	.	.	.	.
Standard Deviation				.	.	.	.	.	.
CV				.	.	.	.	.	.

The Ohio State University

TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code									
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	
Rating Data Type				CHLOROSIS	LEAF CURL	STUNT	CHLOROSIS	LEAF CURL	
Rating Unit				%	%	%	%	%	
Rating Date				6/6/08	6/6/08	7/1/08	7/1/08	7/1/08	
Trt-Eval Interval				1WATPOSA	1WATPOSA	3WATPOSA	3WATPOSA	3WATPOSA	
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17	
Control				0	0	0	0	0	
Dual Magnum	1.33	PT/A	PRE						
GEM 331									
Control				0	0	0	0	0	
Dual Magnum	1.33	PT/A	PRE						
GEM 611									
Control				0	0	0	0	0	
Dual Magnum	1.33	PT/A	PRE						
GEM 818									
Control				0	0	0	0	0	
Dual Magnum	1.33	PT/A	PRE						
HEINZ 9704									
Control				0	0	0	0	0	
Dual Magnum	1.33	PT/A	PRE						
HEINZ 3402									
Control				0	0	0	0	0	
Dual Magnum	1.33	PT/A	PRE						
TSH 4									
Dual Magnum	1.33	PT/A	PRE	0	0	5	0	0	
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 331									
Dual Magnum	1.33	PT/A	PRE	0	0	0	0	0	
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 611									
Dual Magnum	1.33	PT/A	PRE	0	0	0	0	0	
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 818									
Dual Magnum	1.33	PT/A	PRE	0	0	10	0	0	
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
HEINZ 9704									

The Ohio State University

TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code								
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	LEAF CURL	STUNT	CHLOROSIS	LEAF CURL
Rating Unit				%	%	%	%	%
Rating Date				6/6/08	6/6/08	7/1/08	7/1/08	7/1/08
Trt-Eval Interval				1WATPOSA	1WATPOSA	3WATPOSA	3WATPOSA	3WATPOSA
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17
Dual Magnum	1.33	PT/A	PRE	10	15	50	0	0
Harmony+	8	G/HA	POST A					
NIS	0.5	PT/A	POST A					
HEINZ 3402								
Dual Magnum	1.33	PT/A	PRE	0	0	0	0	0
Harmony+	8	G/HA	POST A					
NIS	0.5	PT/A	POST A					
TSH 4								
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.
Harmony+	8	G/HA	POST B					
NIS	0.5	PT/A	POST B					
GEM 331								
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.
Harmony+	8	G/HA	POST B					
NIS	0.5	PT/A	POST B					
GEM 611								
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.
Harmony+	8	G/HA	POST B					
NIS	0.5	PT/A	POST B					
GEM 818								
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.
Harmony+	8	G/HA	POST B					
NIS	0.5	PT/A	POST B					
HEINZ 9704								
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.
Harmony+	8	G/HA	POST B					
NIS	0.5	PT/A	POST B					
HEINZ 3402								
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.
Harmony+	8	G/HA	POST B					
NIS	0.5	PT/A	POST B					
TSH 4								
Dual Magnum	1.33	PT/A	PRE	0	0	5	0	0
Harmony+	16	G/HA	POST A					
NIS	0.5	PT/A	POST A					
GEM 331								

The Ohio State University

TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code								
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	LEAF CURL	STUNT	CHLOROSIS	LEAF CURL
Rating Unit				%	%	%	%	%
Rating Date				6/6/08	6/6/08	7/1/08	7/1/08	7/1/08
Trt-Eval Interval				1WATPOSA	1WATPOSA	3WATPOSA	3WATPOSA	3WATPOSA
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17
Dual Magnum	1.33	PT/A	PRE	0	0	10	0	0
Harmony+	16	G/HA	POST A					
NIS	0.5	PT/A	POST A					
GEM 611								
Dual Magnum	1.33	PT/A	PRE	0	0	30	0	0
Harmony+	16	G/HA	POST A					
NIS	0.5	PT/A	POST A					
GEM 818								
Dual Magnum	1.33	PT/A	PRE	0	15	25	0	0
Harmony+	16	G/HA	POST A					
NIS	0.5	PT/A	POST A					
HEINZ 9704								
Dual Magnum	1.33	PT/A	PRE	15	50	50	0	0
Harmony+	16	G/HA	POST A					
NIS	0.5	PT/A	POST A					
HEINZ 3402								
Dual Magnum	1.33	PT/A	PRE	0	0	0	0	0
Harmony+	16	G/HA	POST A					
NIS	0.5	PT/A	POST A					
TSH 4								
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.
Harmony+	16	G/HA	POST B					
NIS	0.5	PT/A	POST B					
GEM 331								
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.
Harmony+	16	G/HA	POST B					
NIS	0.5	PT/A	POST B					
GEM 611								
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.
Harmony+	16	G/HA	POST B					
NIS	0.5	PT/A	POST B					
GEM 818								
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.
Harmony+	16	G/HA	POST B					
NIS	0.5	PT/A	POST B					
HEINZ 9704								

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TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code								
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	LEAF CURL	STUNT	CHLOROSIS	LEAF CURL
Rating Unit				%	%	%	%	%
Rating Date				6/6/08	6/6/08	7/1/08	7/1/08	7/1/08
Trt-Eval Interval				1WATPOSA	1WATPOSA	3WATPOSA	3WATPOSA	3WATPOSA
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.
Harmony+	16	G/HA	POST B					
NIS	0.5	PT/A	POST B					
HEINZ 3402								
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.
Harmony+	16	G/HA	POST B					
NIS	0.5	PT/A	POST B					
TSH 4								
Reflex	1.25	PT/A	PRETP	0	0	0	0	0
GEM 331								
Reflex	1.25	PT/A	PRETP	0	0	0	0	0
GEM 611								
Reflex	1.25	PT/A	PRETP	0	0	0	0	0
GEM 818								
Reflex	1.25	PT/A	PRETP	0	0	0	0	0
HEINZ 9704								
Reflex	1.25	PT/A	PRETP	0	0	0	0	0
OH 7983								
Reflex	1.25	PT/A	PRETP	0	0	0	0	0
TSH 4								
LSD (P=.05)				.	.	.	.	.
Standard Deviation				.	.	.	.	.
CV				.	.	.	.	.

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TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code										
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				STUNT	CHLOROSIS	LEAF CURL	STUNT	CHLOROSIS	LEAF CURL
Rating Unit				%	%	%	%	%	%
Rating Date				7/22/08	7/22/08	7/22/08	6/27/08	6/27/08	6/27/08
Trt-Eval Interval				6WATPOSA	6WATPOSA	6WATPOSA	3DATPOSB	3DATPOSB	3DATPOSB
Treatment Name	Product Rate	Product Rate U	Grow	18	19	20	21	22	23
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
GEM									
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
GEM 611									
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
GEM 8									
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
HEINZ 9704									
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
HEINZ 3402									
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
TSH 4									
Dual Magnum	1.33	PT/A	PRE	0	0	0	.	.	.
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 331									
Dual Magnum	1.33	PT/A	PRE	0	0	0	.	.	.
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 611									
Dual Magnum	1.33	PT/A	PRE	0	0	0	.	.	.
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 818									
Dual Magnum	1.33	PT/A	PRE	0	0	0	.	.	.
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
HEINZ 9704									

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TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code										
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				STUNT	CHLOROSIS	LEAF CURL	STUNT	CHLOROSIS	LEAF CURL
Rating Unit				%	%	%	%	%	%
Rating Date				7/22/08	7/22/08	7/22/08	6/27/08	6/27/08	6/27/08
Trt-Eval Interval				6WATPOSA	6WATPOSA	6WATPOSA	3DATPOSB	3DATPOSB	3DATPOSB
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	18	19	20	21	22	23
Dual Magnum	1.33	PT/A	PRE	0	0	0	.	.	.
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
HEINZ 3402									
Dual Magnum	1.33	PT/A	PRE	0	0	0	.	.	.
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
TSH 4									
Dual Magnum	1.33	PT/A	PRE	.	.	.	10	15	0
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 331									
Dual Magnum	1.33	PT/A	PRE	.	.	.	15	30	0
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 611									
Dual Magnum	1.33	PT/A	PRE	.	.	.	15	15	0
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 818									
Dual Magnum	1.33	PT/A	PRE	.	.	.	20	35	10
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
HEINZ 9704									
Dual Magnum	1.33	PT/A	PRE	.	.	.	25	20	70
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
HEINZ 3402									
Dual Magnum	1.33	PT/A	PRE	.	.	.	5	20	10
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
TSH 4									
Dual Magnum	1.33	PT/A	PRE	0	0	0	.	.	.
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 331									

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TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code											
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				STUNT	CHLOROSIS	LEAF CURL	STUNT	CHLOROSIS	LEAF CURL
Rating Unit				%	%	%	%	%	%
Rating Date				7/22/08	7/22/08	7/22/08	6/27/08	6/27/08	6/27/08
Trt-Eval Interval				6WATPOSA	6WATPOSA	6WATPOSA	3DATPOSB	3DATPOSB	3DATPOSB
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	18	19	20	21	22	23
Dual Magnum	1.33	PT/A	PRE	0	0	0	.	.	.
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 611									
Dual Magnum	1.33	PT/A	PRE	0	0	0	.	.	.
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 818									
Dual Magnum	1.33	PT/A	PRE	0	0	0	.	.	.
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
HEINZ 9704									
Dual Magnum	1.33	PT/A	PRE	0	0	0	.	.	.
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
HEINZ 3402									
Dual Magnum	1.33	PT/A	PRE	0	0	0	.	.	.
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
TSH 4									
Dual Magnum	1.33	PT/A	PRE	.	.	.	10	30	10
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 331									
Dual Magnum	1.33	PT/A	PRE	.	.	.	15	45	0
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 611									
Dual Magnum	1.33	PT/A	PRE	.	.	.	15	30	0
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 818									
Dual Magnum	1.33	PT/A	PRE	.	.	.	15	15	50
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
HEINZ 9704									

The Ohio State University

TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code											
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				STUNT	CHLOROSIS	LEAF CURL	STUNT	CHLOROSIS	LEAF CURL
Rating Unit				%	%	%	%	%	%
Rating Date				7/22/08	7/22/08	7/22/08	6/27/08	6/27/08	6/27/08
Trt-Eval Interval				6WATPOSA	6WATPOSA	6WATPOSA	3DATPOSB	3DATPOSB	3DATPOSB
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	18	19	20	21	22	23
Dual Magnum	1.33	PT/A	PRE	.	.	.	15	20	80
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
HEINZ 3402									
Dual Magnum	1.33	PT/A	PRE	.	.	.	15	20	40
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
TSH 4									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
GEM 331									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
GEM 611									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
GEM 818									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
HEINZ 9704									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
OH 7983									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
TSH 4									
LSD (P=.05)				.	.	.	.	.	.
Standard Deviation				.	.	.	.	.	.
CV				.	.	.	.	.	.

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TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code										
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				BURN	STUNT	CHLOROSIS	LEAF CURL	BURN	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				7/1/08	7/1/08	7/1/08	7/1/08	7/15/08	7/15/08
Trt-Eval Interval				1WATPOSB	1WATPOSB	1WATPOSB	1WATPOSB	3WATPOSB	3WATPOSB
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	24	25	26	27	28	29
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
GEM 331									
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
GEM 611									
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
GEM 818									
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
HEINZ 9704									
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
HEINZ 3402									
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
TSH 4									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 331									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 611									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 818									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
HEINZ 9704									

The Ohio State University

TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code										
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				BURN	STUNT	CHLOROSIS	LEAF CURL	BURN	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				7/1/08	7/1/08	7/1/08	7/1/08	7/15/08	7/15/08
Trt-Eval Interval				1WATPOSB	1WATPOSB	1WATPOSB	1WATPOSB	3WATPOSB	3WATPOSB
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	24	25	26	27	28	29
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
HEINZ 3402									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
TSH 4									
Dual Magnum	1.33	PT/A	PRE	0	5	0	0	0	15
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 331									
Dual Magnum	1.33	PT/A	PRE	0	10	0	0	0	10
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 611									
Dual Magnum	1.33	PT/A	PRE	0	10	0	0	0	15
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 818									
Dual Magnum	1.33	PT/A	PRE	0	15	0	0	0	15
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
HEINZ 9704									
Dual Magnum	1.33	PT/A	PRE	0	30	10	0	0	15
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
HEINZ 3402									
Dual Magnum	1.33	PT/A	PRE	0	0	0	0	0	0
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
TSH 4									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 331									

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TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code										
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				BURN	STUNT	CHLOROSIS	LEAF CURL	BURN	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				7/1/08	7/1/08	7/1/08	7/1/08	7/15/08	7/15/08
Trt-Eval Interval				1WATPOSB	1WATPOSB	1WATPOSB	1WATPOSB	3WATPOSB	3WATPOSB
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	24	25	26	27	28	29
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 611									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 818									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
HEINZ 9704									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
HEINZ 3402									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
TSH 4									
Dual Magnum	1.33	PT/A	PRE	0	10	0	0	0	10
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 331									
Dual Magnum	1.33	PT/A	PRE	0	15	0	0	0	0
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 611									
Dual Magnum	1.33	PT/A	PRE	0	20	10	0	0	10
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 818									
Dual Magnum	1.33	PT/A	PRE	0	15	0	0	0	0
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
HEINZ 9704									

The Ohio State University

TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code										
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				BURN	STUNT	CHLOROSIS	LEAF CURL	BURN	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				7/1/08	7/1/08	7/1/08	7/1/08	7/15/08	7/15/08
Trt-Eval Interval				1WATPOSB	1WATPOSB	1WATPOSB	1WATPOSB	3WATPOSB	3WATPOSB
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	24	25	26	27	28	29
Dual Magnum	1.33	PT/A	PRE	0	5	20	30	0	10
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
HEINZ 3402									
Dual Magnum	1.33	PT/A	PRE	0	0	0	0	0	0
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
TSH 4									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
GEM 331									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
GEM 611									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
GEM 818									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
HEINZ 9704									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
OH 7983									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
TSH 4									
LSD (P=.05)				.	.	.	.	.	.
Standard Deviation				.	.	.	.	.	.
CV				.	.	.	.	.	.

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TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code										
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	LEAF CURL	BURN	STUNT	CHLOROSIS	LEAF CURL
Rating Unit				%	%	%	%	%	%
Rating Date				7/15/08	7/15/08	8/5/08	8/5/08	8/5/08	8/5/08
Trt-Eval Interval				3WATPOSB	3WATPOSB	6WATPOSB	6WATPOSB	6WATPOSB	6WATPOSB
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	30	31	32	33	34	35
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
GEM 331									
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
GEM 611									
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
GEM 818									
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
HEINZ 9704									
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
HEINZ 3402									
Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
TSH 4									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 331									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 611									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 818									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
HEINZ 9704									

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TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code										
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	
Rating Data Type				CHLOROSIS	LEAF CURL	BURN	STUNT	CHLOROSIS	LEAF CURL	
Rating Unit				%	%	%	%	%	%	
Rating Date				7/15/08	7/15/08	8/5/08	8/5/08	8/5/08	8/5/08	
Trt-Eval Interval				3WATPOSB	3WATPOSB	6WATPOSB	6WATPOSB	6WATPOSB	6WATPOSB	
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	30	31	32	33	34	35	
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.	
Harmony+	8	G/HA	POST A							
NIS	0.5	PT/A	POST A							
HEINZ 3402										
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.	
Harmony+	8	G/HA	POST A							
NIS	0.5	PT/A	POST A							
TSH 4										
Dual Magnum	1.33	PT/A	PRE	0	0	0	0	0	0	
Harmony+	8	G/HA	POST B							
NIS	0.5	PT/A	POST B							
GEM 331										
Dual Magnum	1.33	PT/A	PRE	0	0	0	0	0	0	
Harmony+	8	G/HA	POST B							
NIS	0.5	PT/A	POST B							
GEM 611										
Dual Magnum	1.33	PT/A	PRE	0	0	0	0	0	0	
Harmony+	8	G/HA	POST B							
NIS	0.5	PT/A	POST B							
GEM 818										
Dual Magnum	1.33	PT/A	PRE	0	0	0	0	0	0	
Harmony+	8	G/HA	POST B							
NIS	0.5	PT/A	POST B							
HEINZ 9704										
Dual Magnum	1.33	PT/A	PRE	0	0	0	0	0	0	
Harmony+	8	G/HA	POST B							
NIS	0.5	PT/A	POST B							
HEINZ 3402										
Dual Magnum	1.33	PT/A	PRE	0	0	0	0	0	0	
Harmony+	8	G/HA	POST B							
NIS	0.5	PT/A	POST B							
TSH 4										
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.	
Harmony+	16	G/HA	POST A							
NIS	0.5	PT/A	POST A							
GEM 331										

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TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code										
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	LEAF CURL	BURN	STUNT	CHLOROSIS	LEAF CURL
Rating Unit				%	%	%	%	%	%
Rating Date				7/15/08	7/15/08	8/5/08	8/5/08	8/5/08	8/5/08
Trt-Eval Interval				3WATPOSB	3WATPOSB	6WATPOSB	6WATPOSB	6WATPOSB	6WATPOSB
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	30	31	32	33	34	35
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 611									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 818									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
HEINZ 9704									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
HEINZ 3402									
Dual Magnum	1.33	PT/A	PRE	.	.	.	.	.	.
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
TSH 4									
Dual Magnum	1.33	PT/A	PRE	0	0	0	0	0	0
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 331									
Dual Magnum	1.33	PT/A	PRE	0	0	0	0	0	0
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 611									
Dual Magnum	1.33	PT/A	PRE	0	0	0	0	0	0
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 818									
Dual Magnum	1.33	PT/A	PRE	0	0	0	0	0	0
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
HEINZ 9704									

The Ohio State University

TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code										
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	LEAF CURL	BURN	STUNT	CHLOROSIS	LEAF CURL
Rating Unit				%	%	%	%	%	%
Rating Date				7/15/08	7/15/08	8/5/08	8/5/08	8/5/08	8/5/08
Trt-Eval Interval				3WATPOSB	3WATPOSB	6WATPOSB	6WATPOSB	6WATPOSB	6WATPOSB
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	30	31	32	33	34	35
Dual Magnum	1.33	PT/A	PRE	0	0	0	0	0	0
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
HEINZ 3402									
Dual Magnum	1.33	PT/A	PRE	0	0	0	0	0	0
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
TSH 4									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
GEM 331									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
GEM 611									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
GEM 818									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
HEINZ 9704									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
OH 7983									
Reflex	1.25	PT/A	PRETP	0	0	0	0	0	0
TSH 4									
LSD (P=.05)				.	.	.	.	.	.
Standard Deviation				.	.	.	.	.	.
CV				.	.	.	.	.	.

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TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code										
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				VISUAL	VISUAL	RED	GREEN	RED	GREEN
Rating Unit				% RED	% GREEN	LBS/PLOT	LBS/PLOT	TONS/A	TONS/A
Rating Date				8/15/08	8/15/08	8/15/08	8/15/08	8/15/08	8/15/08
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow St	36	37	38	39	40	41
Control				90	10	84.2	3.8	48.9	2.2
Dual Magnum	1.33	PT/A	PRE						
GEM 331									
Control				90	10	67.8	4.8	39.4	2.8
Dual Magnum	1.33	PT/A	PRE						
GEM 611									
Control				90	10	63.5	7.8	36.9	4.5
Dual Magnum	1.33	PT/A	PRE						
GEM 818									
Control				90	10	49.0	5.5	28.5	3.2
Dual Magnum	1.33	PT/A	PRE						
HEINZ 9704									
Control				90	10	46.6	4.9	27.0	2.8
Dual Magnum	1.33	PT/A	PRE						
HEINZ 3402									
Control				90	10	48.7	4.3	28.3	2.5
Dual Magnum	1.33	PT/A	PRE						
TSH 4									
Dual Magnum	1.33	PT/A	PRE	90	10	73.0	4.0	42.4	2.3
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 331									
Dual Magnum	1.33	PT/A	PRE	90	10	56.5	3.0	32.8	1.7
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 611									
Dual Magnum	1.33	PT/A	PRE	85	15	40.3	6.5	23.4	3.8
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 818									
Dual Magnum	1.33	PT/A	PRE	80	20	53.5	8.0	31.1	4.7
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
HEINZ 9704									

The Ohio State University

TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code										
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				VISUAL	VISUAL	RED	GREEN	RED	GREEN
Rating Unit				% RED	% GREEN	LBS/PLOT	LBS/PLOT	TONS/A	TONS/A
Rating Date				8/15/08	8/15/08	8/15/08	8/15/08	8/15/08	8/15/08
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	36	37	38	39	40	41
Dual Magnum	1.33	PT/A	PRE	70	30	28.7	8.5	16.6	4.9
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
HEINZ 3402									
Dual Magnum	1.33	PT/A	PRE	90	10	43.6	5.0	25.3	2.9
Harmony+	8	G/HA	POST A						
NIS	0.5	PT/A	POST A						
TSH 4									
Dual Magnum	1.33	PT/A	PRE	90	10	70.0	4.5	40.7	2.6
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 331									
Dual Magnum	1.33	PT/A	PRE	90	10	45.4	3.8	26.4	2.2
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 611									
Dual Magnum	1.33	PT/A	PRE	90	10	55.5	11.3	32.2	6.5
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 818									
Dual Magnum	1.33	PT/A	PRE	80	20	50.5	11.0	29.3	6.4
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
HEINZ 9704									
Dual Magnum	1.33	PT/A	PRE	50	50	20.6	13.7	12.0	8.0
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
HEINZ 3402									
Dual Magnum	1.33	PT/A	PRE	90	10	35.7	7.8	20.7	4.5
Harmony+	8	G/HA	POST B						
NIS	0.5	PT/A	POST B						
TSH 4									
Dual Magnum	1.33	PT/A	PRE	90	10	70.5	3.0	41.0	1.7
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 331									

The Ohio State University

TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code										
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				VISUAL	VISUAL	RED	GREEN	RED	GREEN
Rating Unit				% RED	% GREEN	LBS/PLOT	LBS/PLOT	TONS/A	TONS/A
Rating Date				8/15/08	8/15/08	8/15/08	8/15/08	8/15/08	8/15/08
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	36	37	38	39	40	41
Dual Magnum	1.33	PT/A	PRE	90	10	60.0	2.8	34.9	1.6
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 611									
Dual Magnum	1.33	PT/A	PRE	80	20	55.0	8.8	31.9	5.1
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
GEM 818									
Dual Magnum	1.33	PT/A	PRE	80	20	58.8	14.0	34.2	8.1
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
HEINZ 9704									
Dual Magnum	1.33	PT/A	PRE	50	50	25.8	19.2	15.0	11.2
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
HEINZ 3402									
Dual Magnum	1.33	PT/A	PRE	90	10	46.0	5.5	26.7	3.2
Harmony+	16	G/HA	POST A						
NIS	0.5	PT/A	POST A						
TSH 4									
Dual Magnum	1.33	PT/A	PRE	90	10	67.7	5.8	39.3	3.4
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 331									
Dual Magnum	1.33	PT/A	PRE	90	10	65.0	6.3	37.8	3.6
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 611									
Dual Magnum	1.33	PT/A	PRE	70	30	45.8	16.8	26.6	9.7
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
GEM 818									
Dual Magnum	1.33	PT/A	PRE	75	25	54.5	17.4	31.7	10.1
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
HEINZ 9704									

The Ohio State University

TOMATOES - VARIETAL TOLERANCE TO HARMONY GT AND REFLEX

Trial ID: VTHARMGTREFLEXW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code										
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				VISUAL	VISUAL	RED	GREEN	RED	GREEN
Rating Unit				% RED	% GREEN	LBS/PLOT	LBS/PLOT	TONS/A	TONS/A
Rating Date				8/15/08	8/15/08	8/15/08	8/15/08	8/15/08	8/15/08
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	36	37	38	39	40	41
Dual Magnum	1.33	PT/A	PRE	30	70	22.9	29.0	13.3	16.8
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
HEINZ 3402									
Dual Magnum	1.33	PT/A	PRE	90	10	49.0	4.2	28.5	2.4
Harmony+	16	G/HA	POST B						
NIS	0.5	PT/A	POST B						
TSH 4									
Reflex	1.25	PT/A	PRETP	90	10	68.5	5.5	39.8	3.2
GEM 331									
Reflex	1.25	PT/A	PRETP	90	10	78.0	4.3	45.3	2.5
GEM 611									
Reflex	1.25	PT/A	PRETP	90	10	93.5	6.0	54.3	3.5
GEM 818									
Reflex	1.25	PT/A	PRETP	90	10	63.3	9.3	36.7	5.4
HEINZ 9704									
Reflex	1.25	PT/A	PRETP	90	10	57.7	3.1	33.5	1.8
OH 7983									
Reflex	1.25	PT/A	PRETP	90	10	44.2	3.8	25.7	2.2
TSH 4									
LSD (P=.05)				.	.	.	.	.	.
Standard Deviation				.	.	.	.	.	.
CV				.	.	.	.	.	.

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TOMATOES - WEED CONTROL AND CROP TOLERANCE WITH MATRIX AND V-10142

Trial ID: TOMWCCTMATV101422008 Study Dir.: Doug Doohan and Tim Koch
Location: Wooster, Ohio Investigator: Doug Doohan

Objective: Evaluate V-10142, and Matrix (each applied pre-transplant, postemergence over the top, and sequentially) for crop tolerance and weed control especially yellow nutsedge.

TRIAL SUMMARY: Matrix POST and sequential applications of Matrix plus V-10142 provide the best overall weed control . Yields did not differ amongst treatments.

TRIAL LOCATION

City: Wooster Trial Status: Final
State/Prov.: Ohio Trial Reliability: Reliable
Postal Code: 44691 Initiation Date: 05/23/08
Country: USA Planned Completion Date: 10/15/08

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	AGRASS	foxtail, crabgrass spp.	*Setaria, Digitaria spp.*
2	AMAXX	pigweed spp.	*Amaranthus spp.*
3	SOLPT	Eastern black nightshade	*Solanum ptycanthum Dun.*
4	CYPES	yellow nutsedge	*Cyperus esclentes L.*
5	POLPY	Pennsylvania smartweed	*Polygonum pensylvanicum L.*
6	POROL	common purslane	*Portulaca oleracea L.*

Crop 1: LYPES PROCESSING TOMATO Variety: PETO 696
Planting Date: 05/30/08 Planting Method: CONVENTIONAL
Rate: 1 PLANT/12" Depth: 2 IN
Row Spacing: 5 FT Spacing Within Row: 18 IN
Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 10 FT Plot Length, Unit: 25 FT
Site Type: LEVEL FIELD Reps: 3
Tillage Type: CHISEL PLOW Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 16 % OM: 3.11 Texture: SILT LOAM
% Silt: 72 pH: 6.86 Soil Name: WOOSTER SILT LOAM
% Clay: 12 CEC: 8.5 Fert. Level: MODERATE

The Ohio State University

TOMATOES - WEED CONTROL AND CROP TOLERANCE WITH MATRIX AND V-10142

Trial ID: TOMWCCTMATV101422008 Study Dir.: Doug Doohan and Tim Koch
Location: Wooster, Ohio Investigator: Doug Doohan

APPLICATION DESCRIPTION

	A	B
Application Date:	5/23/2008	6/11/2008
Time of Day:	11AM	3PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRETP	POST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	59.2 F	83.7 F
% Relative Humidity:	56	49.8
Wind Velocity, Unit:	3 MPH	2.2 MPH
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	50	50

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	LYPES, PRETP	LYPES, POST
Stage Scale:	.	VEGETATIVE
Height, Unit:	0. .	10 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	AGRASS, PRETP	AGRASS, POST
Stage Scale:	.	3 LF
Density, Unit:	. .	MEDIUM, PLOT
Weed 2 Code, Stage:	AMAXX, PRETP	AMAXX, POST
Stage Scale:	.	1 IN
Density, Unit:	. .	MEDIUM, PLOT
Weed 3 Code, Stage:	SOLPT, PRETP	SOLPT POST
Stage Scale:	.	1 IN
Density, Unit:	. .	MEDIUM, PLOT
Weed 4 Code, Stage:	CYPES, PRETP	CYPES, POST
Stage Scale:	.	3 IN
Density, Unit:	. .	MEDIUM, PLOT
Weed 5 Code, Stage:	POLPY, PRETP	POLPY, POST
Stage Scale:	.	2 IN
Density, Unit:	. .	MEDIUM, PLOT
Weed 6 Code, Stage:	POROL, PRETP	POROL , POST
Stage Scale:	.	0.5 IN
Density, Unit:	. .	MEDIUM, PLOT

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	40	40
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8002VS	8002VS
Nozzle Spacing, Unit:	15 IN	15 IN
Nozzles/Row:	4	4
Band Width, Unit:	60 IN	60 IN
Ground Speed, Unit:	3 MPH	3 MPH
Spray Volume, Unit:	25 GPA	25 GPA
Propellant:	CO2	CO2

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TOMATOES - WEED CONTROL AND CROP TOLERANCE WITH MATRIX AND V-10142

Trial ID: TOMWCCTMATV101422008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code						AMAXX	POROL	CYPES	
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	WEED	WEED	WEED	PLANT
Rating Data Type				STUNT	CHLOROSIS	CONTROL	CONTROL	CONTROL	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				6/6/08	6/6/08	6/6/08	6/6/08	6/6/08	6/13/08
Trt-Eval Interval				7 DATP	7 DATP	7 DATP	7 DATP	7 DATP	14 DATP
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
UNTREATED CONTROL				0	0	0	0	0	0
V-10142	4.27	OZ/A	PRETP	0	0	87	43	83	0
V-10142	6.4	OZ/A	PRETP	0	0	87	43	77	0
V-10142	8.5	OZ/A	PRETP	3	0	87	73	87	8
MATRIX	3	OZ/A	PRETP	2	17	57	40	72	3
V-10142+	4.27	OZ/A	POST						
DYNE-A -PAK	2	PT/A	POST						
V-10142+	6.4	OZ/A	POST						
DYNE-A -PAK	2	PT/A	POST						
V-10142+	8.5	OZ/A	POST						
DYNE-A -PAK	2	PT/A	POST						
MATRIX+	2	OZ/A	POST						
NIS	0.5	PT/A	POST						
V-10142+	4.27	OZ/A	PRETP	0	0	83	48	87	2
V-10142+	4.27	OZ/A	POST						
DYNE-A -PAK	2	PT/A	POST						
V-10142+	6.4	OZ/A	PRETP	0	18	58	53	88	2
V-10142+	6.4	OZ/A	POST						
DYNE-A -PAK	2	PT/A	POST						
MATRIX+	2	OZ/A	PRETP	0	7	60	53	83	2
MATRIX+	2	OZ/A	POST						
NIS	0.5	PT/A	POST						
D. MAGNUM+	1.33	PT/A	PRETP	0	0	95	95	95	0
SENCOR	10	OZ/A	PRETP						
LSD (P=.05)				4	24	42	40	11	8
Standard Deviation				2	14	24	23	7	4
CV				367	302	35	46	9	235

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TOMATOES - WEED CONTROL AND CROP TOLERANCE WITH MATRIX AND V-10142

Trial ID: TOMWCCTMATV101422008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code					AMAXX	POROL	CYPES	
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	WEED	WEED	WEED	PLANT
Rating Data Type				CHLOROSIS	CONTROL	CONTROL	CONTROL	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/13/08	6/13/08	6/13/08	6/13/08	6/20/08
Trt-Eval Interval				14 DATP	14 DATP	14 DATP	14 DATP	21 DATP
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11
UNTREATED CONTROL				0	0	0	0	0
V-10142	4.27	OZ/A	PRETP	0	93	100	58	0
V-10142	6.4	OZ/A	PRETP	0	90	97	57	0
V-10142	8.5	OZ/A	PRETP	0	100	100	85	5
MATRIX	3	OZ/A	PRETP	0	83	69	48	0
V-10142+	4.27	OZ/A	POST					0
DYNE-A -PAK	2	PT/A	POST					
V-10142+	6.4	OZ/A	POST					0
DYNE-A -PAK	2	PT/A	POST					
V-10142+	8.5	OZ/A	POST					0
DYNE-A -PAK	2	PT/A	POST					
MATRIX+	2	OZ/A	POST					0
NIS	0.5	PT/A	POST					
V-10142+	4.27	OZ/A	PRETP	7	100	97	65	0
V-10142+	4.27	OZ/A	POST					
DYNE-A -PAK	2	PT/A	POST					
V-10142+	6.4	OZ/A	PRETP	7	100	97	77	3
V-10142+	6.4	OZ/A	POST					
DYNE-A -PAK	2	PT/A	POST					
MATRIX+	2	OZ/A	PRETP	20	100	97	85	3
MATRIX+	2	OZ/A	POST					
NIS	0.5	PT/A	POST					
D. MAGNUM+	1.33	PT/A	PRETP	0	100	95	85	0
SENCOR	10	OZ/A	PRETP					
LSD (P=.05)				4	11	17	32	6
Standard Deviation				2	6	10	19	3
CV				63	7	12	30	371

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TOMATOES - WEED CONTROL AND CROP TOLERANCE WITH MATRIX AND V-10142

Trial ID: TOMWCCTMATV101422008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code					AGRASS	SOLPT	AMAXX	POROL
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	WEED	WEED	WEED	WEED
Rating Data Type				CHLOROSIS	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/20/08	6/20/08	6/20/08	6/20/08	6/20/08
Trt-Eval Interval				21 DATP	21 DATP	21 DATP	21 DATP	21 DATP
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	12	13	14	15	16
UNTREATED CONTROL				0	0	0	0	0
V-10142	4.27	OZ/A	PRETP	0	97	67	90	100
V-10142	6.4	OZ/A	PRETP	0	93	60	90	98
V-10142	8.5	OZ/A	PRETP	0	93	97	100	97
MATRIX	3	OZ/A	PRETP	0	88	95	90	75
V-10142+	4.27	OZ/A	POST	0	60	33	83	85
DYNE-A -PAK	2	PT/A	POST					
V-10142+	6.4	OZ/A	POST	0	57	33	86	85
DYNE-A -PAK	2	PT/A	POST					
V-10142+	8.5	OZ/A	POST	0	63	66	90	88
DYNE-A -PAK	2	PT/A	POST					
MATRIX+	2	OZ/A	POST	0	99	98	99	99
NIS	0.5	PT/A	POST					
V-10142+	4.27	OZ/A	PRETP	0	93	40	99	99
V-10142+	4.27	OZ/A	POST					
DYNE-A -PAK	2	PT/A	POST					
V-10142+	6.4	OZ/A	PRETP	0	98	67	100	100
V-10142+	6.4	OZ/A	POST					
DYNE-A -PAK	2	PT/A	POST					
MATRIX+	2	OZ/A	PRETP	0	100	67	100	100
MATRIX+	2	OZ/A	POST					
NIS	0.5	PT/A	POST					
D. MAGNUM+	1.33	PT/A	PRETP	0	100	83	93	77
SENCOR	10	OZ/A	PRETP					
LSD (P=.05)				0	38	72	15	8
Standard Deviation				0	22	43	9	5
CV				0	28	69	10	6

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TOMATOES - WEED CONTROL AND CROP TOLERANCE WITH MATRIX AND V-10142

Trial ID: TOMWCCTMATV101422008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code				CYPES			AGRASS	SOLPT
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				WEED	PLANT	PLANT	WEED	WEED
Rating Data Type				CONTROL	STUNT	CHLOROSIS	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/20/08	6/27/08	6/27/08	6/27/08	6/27/08
Trt-Eval Interval				21 DATP	28 DATP	28 DATP	28 DATP	28 DATP
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	17	18	19	20	21
UNTREATED CONTROL				0	0	0	0	0
V-10142	4.27	OZ/A	PRETP	75	0	0	90	67
V-10142	6.4	OZ/A	PRETP	75	0	0	62	27
V-10142	8.5	OZ/A	PRETP	87	0	0	90	98
MATRIX	3	OZ/A	PRETP	72	0	0	87	92
V-10142+	4.27	OZ/A	POST	80	0	0	80	57
DYNE-A -PAK	2	PT/A	POST					
V-10142+	6.4	OZ/A	POST	83	0	0	73	90
DYNE-A -PAK	2	PT/A	POST					
V-10142+	8.5	OZ/A	POST	70	0	0	72	83
DYNE-A -PAK	2	PT/A	POST					
MATRIX+	2	OZ/A	POST	90	0	0	100	73
NIS	0.5	PT/A	POST					
V-10142+	4.27	OZ/A	PRETP	90	0	0	83	37
V-10142+	4.27	OZ/A	POST					
DYNE-A -PAK	2	PT/A	POST					
V-10142+	6.4	OZ/A	PRETP	93	0	0	95	53
V-10142+	6.4	OZ/A	POST					
DYNE-A -PAK	2	PT/A	POST					
MATRIX+	2	OZ/A	PRETP	93	0	0	100	33
MATRIX+	2	OZ/A	POST					
NIS	0.5	PT/A	POST					
D. MAGNUM+	1.33	PT/A	PRETP	85	0	0	95	100
SENCOR	10	OZ/A	PRETP					
LSD (P=.05)				12	0	0	29	54
Standard Deviation				7	0	0	17	32
CV				9	0	0	22	52

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TOMATOES - WEED CONTROL AND CROP TOLERANCE WITH MATRIX AND V-10142

Trial ID: TOMWCCTMATV101422008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code				AMAXX	POROL	CYPES		
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				WEED	WEED	WEED	PLANT	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	STUNT	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				6/27/08	6/27/08	6/27/08	7/22/08	7/22/08
Trt-Eval Interval				28 DATP	28 DATP	28 DATP	56 DATP	56 DATP
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	22	23	24	25	26
UNTREATED CONTROL				0	0	0	50	0
V-10142	4.27	OZ/A	PRETP	50	92	67	0	0
V-10142	6.4	OZ/A	PRETP	72	92	75	0	0
V-10142	8.5	OZ/A	PRETP	90	95	83	0	0
MATRIX	3	OZ/A	PRETP	73	68	53	0	0
V-10142+	4.27	OZ/A	POST	78	83	77	0	0
DYNE-A -PAK	2	PT/A	POST					
V-10142+	6.4	OZ/A	POST	78	83	80	0	0
DYNE-A -PAK	2	PT/A	POST					
V-10142+	8.5	OZ/A	POST	72	80	75	0	0
DYNE-A -PAK	2	PT/A	POST					
MATRIX+	2	OZ/A	POST	100	100	95	0	0
NIS	0.5	PT/A	POST					
V-10142+	4.27	OZ/A	PRETP	100	95	83	0	0
V-10142+	4.27	OZ/A	POST					
DYNE-A -PAK	2	PT/A	POST					
V-10142+	6.4	OZ/A	PRETP	100	100	87	0	0
V-10142+	6.4	OZ/A	POST					
DYNE-A -PAK	2	PT/A	POST					
MATRIX+	2	OZ/A	PRETP	100	100	93	0	0
MATRIX+	2	OZ/A	POST					
NIS	0.5	PT/A	POST					
D. MAGNUM+	1.33	PT/A	PRETP	93	77	80	0	0
SENCOR	10	OZ/A	PRETP					
LSD (P=.05)				26	12	14	0	0
Standard Deviation				15	7	8	0	0
CV				20	8	11	0	0

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TOMATOES - WEED CONTROL AND CROP TOLERANCE WITH MATRIX AND V-10142

Trial ID: TOMWCCTMATV101422008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code				AGRASS	SOLPT	AMAXX	POROL	CYPES
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/22/08	7/22/08	7/22/08	7/22/08	7/22/08
Trt-Eval Interval				56 DATP	56 DATP	56 DATP	56 DATP	56 DATP
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	27	28	29	30	31
UNTREATED CONTROL				0	0	0	0	0
V-10142	4.27	OZ/A	PRETP	61	56	10	83	53
V-10142	6.4	OZ/A	PRETP	57	0	0	93	73
V-10142	8.5	OZ/A	PRETP	61	27	66	81	73
MATRIX	3	OZ/A	PRETP	0	33	33	0	0
V-10142+	4.27	OZ/A	POST	0	27	56	0	50
DYNE-A -PAK	2	PT/A	POST					
V-10142+	6.4	OZ/A	POST	30	43	47	17	40
DYNE-A -PAK	2	PT/A	POST					
V-10142+	8.5	OZ/A	POST	0	23	33	0	20
DYNE-A -PAK	2	PT/A	POST					
MATRIX+	2	OZ/A	POST	99	27	99	94	82
NIS	0.5	PT/A	POST					
V-10142+	4.27	OZ/A	PRETP	56	23	99	99	80
V-10142+	4.27	OZ/A	POST					
DYNE-A -PAK	2	PT/A	POST					
V-10142+	6.4	OZ/A	PRETP	88	33	98	66	88
V-10142+	6.4	OZ/A	POST					
DYNE-A -PAK	2	PT/A	POST					
MATRIX+	2	OZ/A	PRETP	65	30	99	99	90
MATRIX+	2	OZ/A	POST					
NIS	0.5	PT/A	POST					
D. MAGNUM+	1.33	PT/A	PRETP	93	93	86	50	85
SENCOR	10	OZ/A	PRETP					
LSD (P=.05)				55	69	54	40	40
Standard Deviation				33	41	32	24	23
CV				70	129	58	45	41

The Ohio State University

TOMATOES - WEED CONTROL AND CROP TOLERANCE WITH MATRIX AND V-10142

Trial ID: TOMWCCTMATV101422008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code								
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				50 FRUIT	MKTB RED WT	GREEN WT	MKTB RED WT	GREEN WT
Rating Unit				WT/LBS	LBS/PLOT	LBS/PLOT	TONS/A	TONS/A
Rating Date				9/9/08	9/9/08	9/9/08	9/9/08	9/9/08
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	32	33	34	35	36
UNTREATED CONTROL				6.5	9.5	2.7	13.7	3.9
V-10142	4.27	OZ/A	PRETP	6.9	27.7	1.9	40.2	2.7
V-10142	6.4	OZ/A	PRETP	6.9	34.7	2.0	50.3	2.9
V-10142	8.5	OZ/A	PRETP	7.1	31.2	3.3	45.3	4.8
MATRIX	3	OZ/A	PRETP	6.7	19.3	3.1	28.0	4.4
V-10142+	4.27	OZ/A	POST	7.2	23.4	3.1	34.0	4.5
DYNE-A -PAK	2	PT/A	POST					
V-10142+	6.4	OZ/A	POST	6.8	22.3	2.5	32.4	3.6
DYNE-A -PAK	2	PT/A	POST					
V-10142+	8.5	OZ/A	POST	6.4	20.5	1.7	29.8	2.5
DYNE-A -PAK	2	PT/A	POST					
MATRIX+	2	OZ/A	POST	7.3	55.0	5.6	79.9	8.1
NIS	0.5	PT/A	POST					
V-10142+	4.27	OZ/A	PRETP	7.2	26.2	3.5	38.0	5.1
V-10142+	4.27	OZ/A	POST					
DYNE-A -PAK	2	PT/A	POST					
V-10142+	6.4	OZ/A	PRETP	7.4	37.3	6.0	54.1	8.7
V-10142+	6.4	OZ/A	POST					
DYNE-A -PAK	2	PT/A	POST					
MATRIX+	2	OZ/A	PRETP	6.1	29.0	3.7	42.1	5.3
MATRIX+	2	OZ/A	POST					
NIS	0.5	PT/A	POST					
D. MAGNUM+	1.33	PT/A	PRETP	7.2	37.5	3.3	54.5	4.7
SENCOR	10	OZ/A	PRETP					
LSD (P=.05)				1	17	3	25	4
Standard Deviation				1	10	2	15	3
CV				8	35	54	35	54

The Ohio State University

VEGETABLES - HERBICIDE CARRYOVER TRIAL

Trial ID: HERCARRYOVERW2008 Study Dir.: Doug Doohan and Tim Koch
Location: Wooster, Ohio Investigator: Doug Doohan

Objective: To evaluate possible herbicide carryover effects in vegetable crops.

TRIAL SUMMARY: This trial evaluated carryover effects from 12 herbicides applied PRE on 5/21/08. Herbicides were applied at 1/3 to 1/2 the recommended the recommended use rate. Twelve vegetable crop were seeded on 7/8/08. Plots were rated visually for stunting at 8 and 12 WAT. Sandea caused stunting injury to mustard greens (80%) and carrots (50%), and Spartan stunted mustard greens at (50%)

TRIAL LOCATION

City: Wooster
State/Prov.: Ohio
Postal Code: 44691
Country: USA

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 05/21/08
Planned Completion Date: 10/15/08

Crop 1: DAUCS CARROT Variety: SCARLET NANTES
Planting Date: 07/08/08 Planting Method: PLANTER JR.
Rate: 3 LB/A Depth: 0.5 IN
Row Spacing: 36 IN Seed Bed: CONVENTIONAL
Soil Moisture: MOIST

Crop 2: BRSOA COLLARD Variety: GEORGIA SOUTHERN
Planting Date: 07/08/08 Planting Method: PLANTER JR.
Rate: 3 LB/A Depth: 0.5 IN
Row Spacing: 36 IN Seed Bed: CONVENTIONAL
Soil Moisture: MOIST

Crop 3: CORSS CORIANDER Variety: SANTO
Planting Date: 07/08/08 Planting Method: PLANTER JR.
Rate: 3 LB/A Depth: 0.5 IN
Row Spacing: 36 IN Seed Bed: CONVENTIONAL
Soil Moisture: MOIST

Crop 4: CUMSA CUCUMBER Variety: MARKETER
Planting Date: 07/08/08 Planting Method: PLANTER JR.
Rate: 4 LB/A Depth: 0.5 IN
Row Spacing: 60 IN Seed Bed: CONVENTIONAL
Soil Moisture: MOIST

Crop 5: MUSGN MUSTARD Variety: SOUTHERN GIANT CURLED
Planting Date: 07/08/08 Planting Method: PLANTER JR.
Rate: 4 LB/A Depth: 0.5 IN
Row Spacing: 36 IN Seed Bed: CONVENTIONAL
Soil Moisture: MOIST

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VEGETABLES - HERBICIDE CARRYOVER TRIAL

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Study Dir.: Doug Doohan and Tim Koch
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Crop 6: CUUHY PUMPKIN
Planting Date: 07/08/08
Rate: 1 SEED/36"
Row Spacing: 60 IN
Soil Moisture: MOIST

Variety: CONNECTICUT FIELD
Planting Method: PLANTER JR.
Depth: 1 IN
Seed Bed: CONVENTIONAL

Crop 7: RAPSS RADISH
Planting Date: 07/08/08
Rate: 10 LB/A
Row Spacing: 36 IN
Soil Moisture: MOIST

Variety: FRENCH BREAKFAST
Planting Method: PLANTER JR.
Depth: 0.5 IN
Seed Bed: CONVENTIONAL

Crop 8: CUUPM SQUASH
Planting Date: 07/08/08
Rate: 1 SEED/24"
Row Spacing: 60 IN
Soil Moisture: MOIST

Variety: EARLY STRAIGHTNECK
Planting Method: PLANTER JR.
Depth: 1 IN
Seed Bed: CONVENTIONAL

Crop 9: ZEAMS SWEET CORN
Planting Date: 07/08/08
Rate: 1 SEED/18"
Row Spacing: 30 IN
Soil Moisture: MOIST

Variety: BSS0977
Planting Method: CORN PLANTER
Depth: 1.5 IN
Seed Bed: CONVENTIONAL
Emergence Date: 07/22/08

Crop 10: ZEAMS SWEET CORN
Planting Date: 07/08/08
Rate: 1 SEED/18"
Row Spacing: 30 IN
Soil Moisture: MOIST

Variety: GSS0966
Planting Method: CORN PLANTER
Depth: 1.5 IN
Seed Bed: CONVENTIONAL
Emergence Date: 07/22/08

Crop 11: ZEAMS SWEET CORN
Planting Date: 07/08/08
Rate: 1 SEED/18"
Row Spacing: 30 IN
Soil Moisture: MOIST

Variety: MX350
Planting Method: CORN PLANTER
Depth: 1.5 IN
Seed Bed: CONVENTIONAL
Emergence Date: 07/22/08

Crop 12: ZEAMS SWEET CORN
Planting Date: 07/08/08
Rate: 1 SEED/18"
Row Spacing: 30 IN
Soil Moisture: MOIST

Variety: SWEET SHIPPER
Planting Method: CORN PLANTER
Depth: 1.5 IN
Seed Bed: CONVENTIONAL
Emergence Date: 07/22/08

SITE AND DESIGN

Plot Width, Unit: 10 FT
Site Type: LEVEL FIELD
Tillage Type: CHISEL PLOW

Plot Length, Unit: 100 FT
Reps: 1
Study Design: SPLIT PLOT

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VEGETABLES - HERBICIDE CARRYOVER TRIAL

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SOIL DESCRIPTION

% Sand: 11	% OM: 3.11	Texture: SILT LOAM
% Silt: 75	pH: 6.86	Soil Name: WOOSTER SILT LOAM
% Clay: 14	CEC: 14	Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A
Application Date:	5/21/2008
Time of Day:	9:30AM
Application Method:	SPRAY
Application Timing:	PRE
Applic. Placement:	BROADCAST
Air Temp., Unit:	49.3 F
% Relative Humidity:	80.8
Wind Velocity, Unit:	7.9 MPH
Soil Moisture:	MOIST
% Cloud Cover:	80

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	DAUCS, PRE
Stage Scale:	.
Height, Unit:	0. .
Crop 2 Code, Stage:	BRSOA, PRE
Stage Scale:	.
Height, Unit:	0. .
Crop 3 Code, Stage:	CORSS, PRE
Stage Scale:	.
Height, Unit:	0. .
Crop 4 Code, Stage:	CUMSA, PRE
Stage Scale:	.
Height, Unit:	0. .
Crop 5 Code, Stage:	MUSGN, PRE
Stage Scale:	.
Height, Unit:	0. .
Crop 6 Code, Stage:	CUUHY, PRE
Stage Scale:	.
Height, Unit:	0. .
Crop 7 Code, Stage:	RAPSS, PRE
Stage Scale:	.
Height, Unit:	0. .
Crop 8 Code, Stage:	CUUPM , PRE
Stage Scale:	.
Height, Unit:	0. .
Crop 9 Code, Stage:	ZEAMS, PRE
Stage Scale:	.
Height, Unit:	0. .
Crop10 Code, Stage:	ZEAMS, PRE
Stage Scale:	.
Height, Unit:	0. .
Crop11 Code, Stage:	ZEAMS, PRE
Stage Scale:	.
Height, Unit:	0. .

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VEGETABLES - HERBICIDE CARRYOVER TRIAL

Trial ID: HERCARRYOVERW2008 Study Dir.: Doug Doohan and Tim Koch
Location: Wooster, Ohio Investigator: Doug Doohan

Crop12 Code, Stage:	ZEAMS, PRE
Stage Scale:	.
Height, Unit:	0. .

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	40
Nozzle Type:	FLAT FAN
Nozzle Size:	8002VS
Nozzle Spacing, Unit:	15 IN
Nozzles/Row:	4
Band Width, Unit:	5 FT
Ground Speed, Unit:	3 MPH
Spray Volume, Unit:	25 GPA
Propellant:	CO2

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VEGETABLES - HERBICIDE CARRYOVER TRIAL

Trial ID: HERCARRYOVERW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code				BSS0977	GSS0966	MX350	SWSHIPPR	
Crop Code				SWCORN	SWCORN	SWCORN	SWCORN	MUSGN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				INJURY	INJURY	INJURY	INJURY	INJURY
Rating Unit				%	%	%	%	%
Rating Date				7/28/08	7/28/08	7/28/08	7/28/08	7/28/08
Trt-Eval Interval				8WAT	8WAT	8WAT	8WAT	8WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
UNTREATED CONTROL				0	0	0	0	0
ACCENT	0.166	OZ/A	PRE	0	0	0	0	0
ATRAZINE	0.5	PT/A	PRE	0	0	0	0	0
CALLISTO	1.5	OZ/A	PRE	0	0	0	0	0
COMMAND	0.0125	PT/A	PRE	0	0	0	0	0
GOAL	0.5	PT/A	PRE	0	0	0	0	0
IMPACT	0.5	FL OZ/A	PRE	0	0	0	0	0
LAUDIS	1.5	OZ/A	PRE	0	0	0	0	0
MATRIX	0.5	OZ/A	PRE	0	0	0	0	0
SANDEA	0.25	OZ/A	PRE	0	0	0	0	80
SPARTAN	2	OZ/A	PRE	0	0	0	0	0
STINGER	2	OZ/A	PRE	0	0	0	0	0
LSD (P=.05)				.	.	.	.	.
Standard Deviation				.	.	.	.	.
CV				.	.	.	.	.

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VEGETABLES - HERBICIDE CARRYOVER TRIAL

Trial ID: HERCARRYOVERW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code								
Crop Code				DAUCS	BRSOA	CORSS	RAPSS	CUMSA
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				INJURY	INJURY	INJURY	INJURY	INJURY
Rating Unit				%	%	%	%	%
Rating Date				7/28/08	7/28/08	7/28/08	7/28/08	7/28/08
Trt-Eval Interval				8WAT	8WAT	8WAT	8WAT	8WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
UNTREATED CONTROL				0	0	0	0	0
ACCENT	0.166	OZ/A	PRE	0	0	30	0	0
ATRAZINE	0.5	PT/A	PRE	0	0	0	0	0
CALLISTO	1.5	OZ/A	PRE	0	0	0	0	60
COMMAND	0.0125	PT/A	PRE	0	0	40	0	0
GOAL	0.5	PT/A	PRE	0	0	0	0	0
IMPACT	0.5	FL OZ/A	PRE	0	0	0	0	0
LAUDIS	1.5	OZ/A	PRE	0	0	0	0	0
MATRIX	0.5	OZ/A	PRE	0	0	0	0	0
SANDEA	0.25	OZ/A	PRE	50	0	50	0	0
SPARTAN	2	OZ/A	PRE	0	0	30	0	0
STINGER	2	OZ/A	PRE	0	0	0	0	0
LSD (P=.05)				.	.	.	.	.
Standard Deviation				.	.	.	.	.
CV				.	.	.	.	.

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VEGETABLES - HERBICIDE CARRYOVER TRIAL

Trial ID: HERCARRYOVERW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code						BSS0977	GSS0966	MX350
Crop Code				CUUPM	CUUHY	SWCORN	SWCORN	SWCORN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				INJURY	INJURY	INJURY	INJURY	INJURY
Rating Unit				%	%	%	%	%
Rating Date				7/28/08	7/28/08	8/28/08	8/28/08	8/28/08
Trt-Eval Interval				8WAT	8WAT	12WAT	12WAT	12WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
UNTREATED CONTROL				0	0	0	0	0
ACCENT	0.166	OZ/A	PRE	0	0	0	0	0
ATRAZINE	0.5	PT/A	PRE	0	0	0	0	0
CALLISTO	1.5	OZ/A	PRE	40	0	0	0	0
COMMAND	0.0125	PT/A	PRE	0	0	0	0	0
GOAL	0.5	PT/A	PRE	0	0	0	0	0
IMPACT	0.5	FL OZ/A	PRE	0	0	0	0	0
LAUDIS	1.5	OZ/A	PRE	0	30	0	0	0
MATRIX	0.5	OZ/A	PRE	0	0	0	0	0
SANDEA	0.25	OZ/A	PRE	0	0	0	0	0
SPARTAN	2	OZ/A	PRE	0	0	0	0	0
STINGER	2	OZ/A	PRE	0	0	0	0	0
LSD (P=.05)				.	.	.	.	.
Standard Deviation				.	.	.	.	.
CV				.	.	.	.	.

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VEGETABLES - HERBICIDE CARRYOVER TRIAL

Trial ID: HERCARRYOVERW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code				SWSHIPPR				
Crop Code				SWCORN	MUSGN	DAUCS	BRSOA	CORSS
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				INJURY	INJURY	INJURY	INJURY	INJURY
Rating Unit				%	%	%	%	%
Rating Date				8/28/08	8/28/08	8/28/08	8/28/08	8/28/08
Trt-Eval Interval				12WAT	12WAT	12WAT	12WAT	12WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	16	17	18	19	20
UNTREATED CONTROL				0	0	0	0	0
ACCENT	0.166	OZ/A	PRE	0	0	0	0	10
ATRAZINE	0.5	PT/A	PRE	0	0	0	0	0
CALLISTO	1.5	OZ/A	PRE	0	0	0	0	0
COMMAND	0.0125	PT/A	PRE	0	0	0	0	20
GOAL	0.5	PT/A	PRE	0	0	0	0	0
IMPACT	0.5	FL OZ/A	PRE	0	0	0	0	0
LAUDIS	1.5	OZ/A	PRE	0	0	0	0	0
MATRIX	0.5	OZ/A	PRE	0	0	0	0	0
SANDEA	0.25	OZ/A	PRE	0	90	50	0	30
SPARTAN	2	OZ/A	PRE	0	50	0	0	30
STINGER	2	OZ/A	PRE	0	0	0	0	0
LSD (P=.05)				.	.	.	.	.
Standard Deviation				.	.	.	.	.
CV				.	.	.	.	.

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Trial ID: HERCARRYOVERW2008
Location: Wooster, Ohio
Study Dir.: Doug Doohan and Tim Koch
Investigator: Doug Doohan

Weed Code							
Crop Code				RAPSS	CUMSA	CUUPM	CUUHY
Part Rated				PLANT	PLANT	PLANT	PLANT
Rating Data Type				INJURY	INJURY	INJURY	INJURY
Rating Unit				%	%	%	%
Rating Date				8/28/08	8/28/08	8/28/08	8/28/08
Trt-Eval Interval				12WAT	12WAT	12WAT	12WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	21	22	23	24
UNTREATED CONTROL				0	0	0	0
ACCENT	0.166	OZ/A	PRE	0	0	0	0
ATRAZINE	0.5	PT/A	PRE	0	0	0	0
CALLISTO	1.5	OZ/A	PRE	0	0	0	0
COMMAND	0.0125	PT/A	PRE	0	0	0	0
GOAL	0.5	PT/A	PRE	0	0	0	0
IMPACT	0.5	FL OZ/A	PRE	0	0	0	0
LAUDIS	1.5	OZ/A	PRE	0	0	0	0
MATRIX	0.5	OZ/A	PRE	0	0	0	0
SANDEA	0.25	OZ/A	PRE	0	0	0	0
SPARTAN	2	OZ/A	PRE	0	0	0	0
STINGER	2	OZ/A	PRE	0	0	30	30
LSD (P=.05)				.	.	.	.
Standard Deviation				.	.	.	.
CV				.	.	.	.