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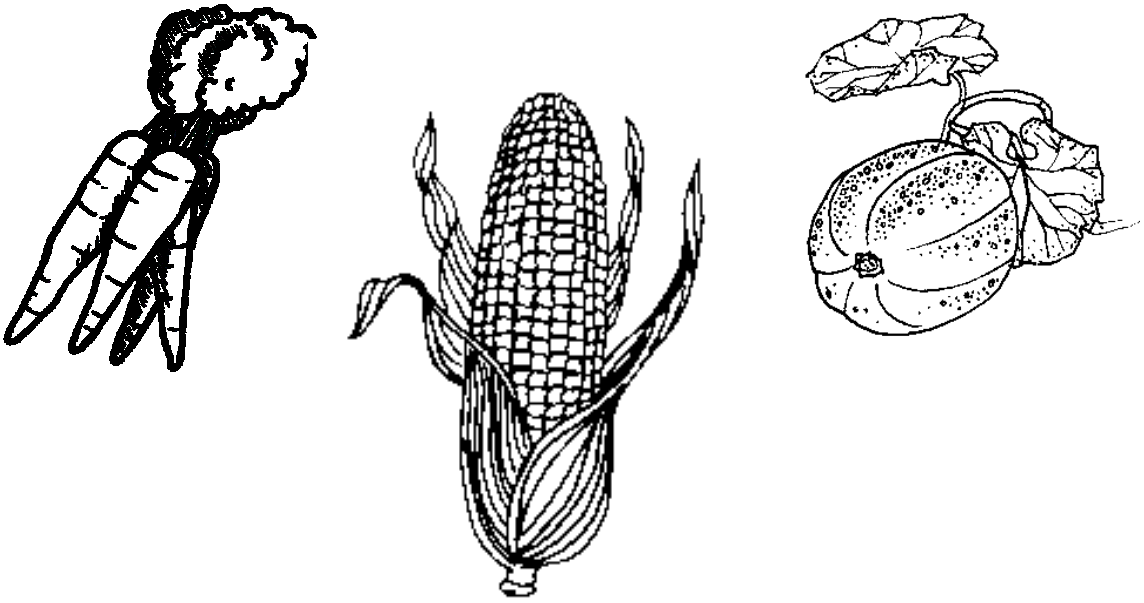
Weed Management In Horticultural Crops

RESEARCH RESULTS
2006



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This report contains the results of research on horticultural crop weed management in Ohio for 2006. 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:

AFEGR = Dill
ALLCE = Green Onion
BRSOA = Collard
BRSOC = Kale
CILAN* = Cilantro
CPSAN = Pepper
CUMSA = Cucumber
FRAAN = Strawberry
LYPES = Tomato
MABSD = Apple
MUSGN* = Mustard Green
OCIBA = Sweet Basil
RUBSG = Raspberry
TURGN* = Turnip Green
VITLA = Grape
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
CLUST NO = Cluster number
CLUST WT = Cluster weight
COLLAR = In corn, the area where the leaf attaches to the stalk
CONTROL = Herbicide efficacy
CUPPING = Upward rolling of foilage
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 = Postemergent application; also LPOST, (late POST) and EPOST(early POST)
POSTHARV = Post harvest
POSTTP = Post-transplant
PRE = Preemergent herbicide application
PRETP = Pre-transplant

PRUN WT = Pruning weight
SHOOT GRO = Shoot growth
SOL SUGAR = Soluble sugar expressed as a percent
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
VIGOR = Overall healthy plant appearance
WAEMER = Weeks after emergence
WAT = Weeks after treatment
WILT = A shriveled or dessicated appearance
WRINKLE = A rippled appearance on crop foilage
WT = Weight
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.
SAMCN	elderberry	*Sambucus canadensis* 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.
URTDI	stinging nettle	*Urtica dioica* 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 iinformation is not available.

HERBICIDE LIST

TRADE NAME	COMMON NAME	FORMULATION	MANUFACTURER
Aatrex	atrazine	4 L	Syngenta
AE 0172747	triketon/isoxazoline	52 SC	Bayer CropScience
Balance Pro	isoxaflutole	4 L	Bayer CropScience
Barricade	prodiamine	4L	Syngenta
Callisto	mesotrione	4.0 SC	Syngenta
Caparol	prometryn	4 L	Syngenta
Casoron	dichlobenil	4 G	Chemtura Corporation
Chateau	flumioxazin	51 WDG	Valent
Command	clomazone	3 ME	FMC Corporation
Define	flufenacet	60 DF	Bayer CropScience
Distinct	dicamba + diflufenzopyr	76.4 DF	BASF
Dual Magnum	s-metolachlor	7.62 EC	Syngenta
Dual II Magnum	s-metolachlor + safener	7.64 EC	Syngenta
Flexstar	fomesafen	1.9L	Syngenta
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
Kerb	pronamide	50 WP	UAP
KIH - 485	NA	60 WG	Kumiai
Lorox	linuron	50 DF	Griffin LLC
Matrix	rimsulfuron	25 DF	DuPont
Nortron	ethofumesate	4 SC	Bayer CropScience
Option	foramsulfuron	35 WDG	Bayer CropScience
Oust XP	sulfometuron methyl	75 DF	DuPont
Outlook	dimethenamid	6 L	BASF
Payload	flumioxazin	51 WDG	Valent
Permit	halosulfuron	75 DF	Monsanto
Princep	simazine	4 L	Syngenta
Prowl	pendimethalin	3.3 EC	BASF
Prowl H_2O	pendimethalin	3.8 L	BASF
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
Solicam	norflurazon	80 WF	Syngenta
Spartan	sulfentrazone	75 DF	FMC Corporation
Stinger	clopyralid	3 L	Dow AgroSciences LLC
Surflan	oryzalin	4 L	United Phosphorus, Inc.
V10142	NA	75 WD	Valent
Valor	flumioxazin	51 WDG	Valent
Velpar	hexazinone	75 WDG	DuPont
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
28% N	UAN	Urea ammonia nitrate
Induce	NIS	Nonionic surfactant
MSO	MSO	Methylated seed oil

Daily Weather Summary for 4/1/2005 to 8/31/2005 at OARDC – North Central Agricultural Research Station, Fremont, Ohio 43420
Sandusky County, Latitude: 41° 21' N; Longitude: 83° 07' W; Elevation: 636 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
4/1/05	0	27	69	5/1/05	0	32	57	6/1/05	0	45	78	7/1/05	0.51	63	89	8/1/05	0	58	87
4/2/05	0.91	29	53	5/2/05	0	35	51	6/2/05	0	52	78	7/2/05	0	54	85	8/2/05	0	57	90
4/3/05	0.82	34	51	5/3/05	0	34	52	6/3/05	0.02	57	81	7/3/05	0	49	80	8/3/05	0	60	92
4/4/05	0	29	58	5/4/05	0	24	49	6/4/05	0	57	80	7/4/05	0	63	86	8/4/05	0	63	93
4/5/05	0	33	65	5/5/05	0	30	58	6/5/05	0	46	87	7/5/05	0	61	91	8/5/05	0	64	91
4/6/05	0	44	76	5/6/05	0	29	61	6/6/05	0.06	60	94	7/6/05	0.13	61	83	8/6/05	0	58	85
4/7/05	0	50	79	5/7/05	0	38	71	6/7/05	0	62	88	7/7/05	0	55	79	8/7/05	0	53	86
4/8/05	0	31	60	5/8/05	0	34	72	6/8/05	0	67	94	7/8/05	0	56	81	8/8/05	0	56	86
4/9/05	0	29	58	5/9/05	0	48	76	6/9/05	0.88	62	93	7/9/05	0	54	83	8/9/05	0	58	88
4/10/05	0	32	70	5/10/05	0	52	84	6/10/05	0.23	67	90	7/10/05	0	53	85	8/10/05	0	67	90
4/11/05	0	39	71	5/11/05	0	49	84	6/11/05	0	66	92	7/11/05	0	55	88	8/11/05	0.32	61	87
4/12/05	0	34	59	5/12/05	0	43	77	6/12/05	0	67	85	7/12/05	0	59	88	8/12/05	0	62	83
4/13/05	0	34	53	5/13/05	0	39	51	6/13/05	0	69	88	7/13/05	0.02	65	95	8/13/05	0.28	51	94
4/14/05	0	28	56	5/14/05	0.25	42	85	6/14/05	0.02	67	86	7/14/05	0.23	66	88	8/14/05	0.7	63	83
4/15/05	0	28	61	5/15/05	0.07	39	67	6/15/05	0	63	92	7/15/05	0.28	64	84	8/15/05	0.03	60	75
4/16/05	0	26	67	5/16/05	0	35	58	6/16/05	0.05	54	76	7/16/05	0.03	66	88	8/16/05	0	57	76
4/17/05	0	44	73	5/17/05	0	32	58	6/17/05	0.07	45	78	7/17/05	0.22	68	87	8/17/05	0	54	82
4/18/05	0	42	72	5/18/05	0	40	67	6/18/05	0	51	72	7/18/05	0.03	68	88	8/18/05	0	57	84
4/19/05	0	49	81	5/19/05	0	46	71	6/19/05	0	50	76	7/19/05	0.12	67	90	8/19/05	0	59	88
4/20/05	0	54	82	5/20/05	0.21	49	65	6/20/05	0	44	76	7/20/05	0	56	87	8/20/05	0.27	59	89
4/21/05	0.21	38	80	5/21/05	0	36	74	6/21/05	0	50	79	7/21/05	2.2	60	91	8/21/05	0	60	90
4/22/05	0.02	32	53	5/22/05	0	43	76	6/22/05	0	59	86	7/22/05	0.01	64	88	8/22/05	0	48	86
4/23/05	1.51	31	49	5/23/05	0.03	44	69	6/23/05	0	43	78	7/23/05	0	58	86	8/23/05	0	51	73
4/24/05	0.45	27	38	5/24/05	0.33	45	73	6/24/05	0	51	86	7/24/05	0.03	65	85	8/24/05	0	48	74
4/25/05	0.37	27	38	5/25/05	0.11	42	61	6/25/05	0	65	92	7/25/05	0.12	65	90	8/25/05	0	48	77
4/26/05	0	35	61	5/26/05	0	41	69	6/26/05	0	60	98	7/26/05	0.28	67	92	8/26/05	0	49	80
4/27/05	0.67	37	51	5/27/05	0	43	78	6/27/05	0	65	96	7/27/05	2.27	62	93	8/27/05	0	63	83
4/28/05	0.02	33	52	5/28/05	.11	46	78	6/28/05	0	65	95	7/28/05	0.24	55	79	8/28/05	0.12	51	87
4/29/05	0.02	35	57	5/29/05	.13	44	69	6/29/05	0.36	64	93	7/29/05	0	53	78	8/29/05	0	56	87
4/30/05	002	39	57	5/30/05	.03	50	68	6/30/05	.02	63	89	7/30/05	0	56	83	8/30/05	0	58	83
				5/31/05	0	44	73					7/31/05	0	53	81	8/31/05	2.43	59	73

Daily Weather Summary for 4/1/2005 to 8/31/2005 at OARDC, Wooster, Ohio 44691
Wayne County, one mile south of Wooster; Latitude: 8340° 47' N; Longitude: 81° 55' W; Elevation: 1020 ft.

APRIL			
Date	Precip (in)	Min. Temp. °F	Max. Temp. °F
4/1/05	0.05	34.6	55.7
4/2/05	1.25	32.7	43.2
4/3/05	0.05	32.9	53.6
4/4/05	0	35.2	62.2
4/5/05	0	36.8	76.7
4/6/05	0	42.9	79.7
4/7/05	0.02	43	61.4
4/8/05	0.01	37.6	64.3
4/9/05	0	35.4	74.8
4/10/05	0	39.1	76.5
4/11/05	0	42.2	73.1
4/12/05	0	39.8	60.9
4/13/05	0	39.5	62.1
4/14/05	0	35.6	64
4/15/05	0	31.2	67.5
4/16/05	0	34.9	72.3
4/17/05	0	34	72.8
4/18/05	0	45.1	80.5
4/19/05	0	49.9	81.3
4/20/05	0.76	44.7	78
4/21/05	0.12	37.7	59.5
4/22/05	0.29	34.3	54.5
4/23/05	1	33.7	43.5
4/24/05	0.19	31.4	34.3
4/25/05	0.01	32.9	58
4/26/05	0.18	44.8	66.3
4/27/05	0	40.3	51.9
4/28/05	0	37	57.2
4/29/05	0.06	43.7	59.5
4/30/05	0.15	39.3	53.5

MAY			
Date	Precip (in)	Min. Temp. °F	Max. Temp. °F
5/1/05	0	34.9	54.3
5/2/05	0.02	39.5	50.1
5/3/05	0	33.6	48.5
5/4/05	0	27.3	54.6
5/5/05	0	29	68.6
5/6/05	0	37	69.9
5/7/05	0	42.4	71.3
5/8/05	0	39.2	76.6
5/9/05	0	43.8	81.7
5/10/05	0	50.3	81.1
5/11/05	0.31	49.8	82.4
5/12/05	0.05	43.4	59.2
5/13/05	0.3	42	83.3
5/14/05	0.98	51.1	71.7
5/15/05	0	45.6	59.1
5/16/05	0	38.1	53.8
5/17/05	0	37.3	68.6
5/18/05	0	42.4	70.2
5/19/05	0.02	51.1	64.8
5/20/05	0	47.7	67.6
5/21/05	0	38.8	74.4
5/22/05	0.02	43	72.9
5/23/05	0.28	48.9	67.1
5/24/05	0	46.5	60.2
5/25/05	0.03	41.5	67.8
5/26/05	0	44.1	77.2
5/27/05	0.02	49.7	75.2
5/28/05	0.1	52.3	70
5/29/05	0	48.6	70.5
5/30/05	0.14	49.4	74.2
5/31/05	0.01	47.9	78.7

JUNE			
Date	Precip (in)	Min. Temp °F	Max. Temp °F
6/1/05	0	49.6	79.4
6/2/05	0	59	75.2
6/3/05	0	59.4	77
6/4/05	0	55.7	86.6
6/5/05	0.08	62.9	90.3
6/6/05	0.1	61.7	84.6
6/7/05	0	60.7	92.5
6/8/05	0	63.3	90.6
6/9/05	0	66.2	90.8
6/10/05	0.16	69.3	89.8
6/11/05	0.29	67.8	86.6
6/12/05	0.01	70.2	87.5
6/13/05	0.02	71.2	81.8
6/14/05	0.1	68.9	88.3
6/15/05	0	64.1	75.6
6/16/05	0.18	55.7	70.6
6/17/05	0.01	49.7	72
6/18/05	0	49.4	69.9
6/19/05	0	52.9	76.8
6/20/05	0	49.7	83.6
6/21/05	0	53.9	84
6/22/05	0.07	60.8	79.1
6/23/05	0	51.6	85.9
6/24/05	0	53.1	91
6/25/05	0.12	63.1	91.9
6/26/05	0	61.1	95.3
6/27/05	0	67.1	94.9
6/28/05	0.11	67.3	88.2
6/29/05	0.01	65.8	91.1
6/30/05	0.13	65	90

JULY			
Date	Precip (in)	Min. Temp. °F	Max. Temp. °F
7/1/05	0	65.3	84.3
7/2/05	0	56.4	78.7
7/3/05	0	53.1	86.6
7/4/05	0	68.9	90.6
7/5/05	0.48	64.6	80.1
7/6/05	0	60.9	82.7
7/7/05	0.05	58.6	83
7/8/05	0	58.2	82.5
7/9/05	0.01	57.6	84.3
7/10/05	0	52.1	88.1
7/11/05	0	57.4	90.1
7/12/05	0	71	90.6
7/13/05	0.08	66.3	90.7
7/14/05	0.41	69	86
7/15/05	0	68.1	89.8
7/16/05	0.22	71.9	88.7
7/17/05	0	72.7	85.5
7/18/05	0.18	69.7	89.4
7/19/05	0.01	65.2	86.6
7/20/05	0	60	90.3
7/21/05	0.18	68.2	87.9
7/22/05	0.52	67.6	86.7
7/23/05	0	61.2	86.2
7/24/05	0	65.8	87.9
7/25/05	0.57	69.9	92.3
7/26/05	0.9	69.1	92.4
7/27/05	0.41	62.4	73
7/28/05	0	59.2	80.2
7/29/05	0.01	55.4	83.1
7/30/05	0	56.1	83.7
7/31/05	0	58.4	88.4

AUGUST			
Date	Precip. (in)	Min. Temp °F	Max. Temp °F
8/1/05	0	60.4	89
8/2/05	0	64.1	90.7
8/3/05	0	62.6	93.9
8/4/05	0	65.4	91.4
8/5/05	1.44	67	82
8/6/05	0	62.2	82.8
8/7/05	0	58.4	89
8/8/05	0	64.1	86.3
8/9/05	0	61.3	91.7
8/10/05	0.39	61.2	88
8/11/05	0	65.8	87.7
8/12/05	0	66.9	91.4
8/13/05	0.03	68.5	91.5
8/14/05	0.01	67.7	77.9
8/15/05	0	65.3	75.8
8/16/05	0.12	61.7	83.1
8/17/05	0	58.2	87
8/18/05	0	64.1	84.3
8/19/05	0	72.6	88.3
8/20/05	0.26	65.6	90.7
8/21/05	0.01	62.1	83.3
8/22/05	0	53.5	75.2
8/23/05	0	50.9	72.6
8/24/05	0	50.3	78
8/25/05	0	51.6	81.4
8/26/05	0	65.8	80
8/27/05	0.01	67	80.4
8/28/05	0	57	88.1
8/29/05	0	61.1	76.4
8/30/05	2.11	67.4	71.8
8/31/05	0.44	60.8	77.6

Daily Weather Summmary for 4/1/2005 to 7/31/2005 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
				5/1/05	0.04	30	59	6/1/05	0	47	77	7/1/05	0	62	88				
				5/2/05	0.01	34	53	6/2/05	0.05	48	79	7/2/05	0	54	83				
				5/3/05	0	34	54	6/3/05	0	52	81	7/3/05	0	53	85				
4/4/05	0	30	55	5/4/05	0.01	27	48	6/4/05	0	59	83	7/4/05	0	65	90				
4/5/05	0	32	65	5/5/05	0	32	60	6/5/05	0.13	49	89	7/5/05	0	64	92				
4/6/05	0	44	76	5/6/05	0	30	61	6/6/05	0	61	93	7/6/05	0	60	84				
4/7/05	0.04	52	81	5/7/05	0	38	72	6/7/05	0	66	90	7/7/05	0.07	55	80				
4/8/05	0	35	61	5/8/05	0	36	72	6/8/05	0	65	92	7/8/05	0.03	55	85				
4/9/05	0	34	59	5/9/05	0	51	77	6/9/05	0.01	66	95	7/9/05	0	57	84				
4/10/05	0	33	73	5/10/05	0.12	55	85	6/10/05	0.24	67	92	7/10/05	0	51	84				
4/11/05	0	40	71	5/11/05	0.23	52	84	6/11/05	0	65	92	7/11/05	0	54	88				
4/12/05	0	36	62	5/12/05	0	44	78	6/12/05	0	68	85	7/12/05	0	59	89				
4/13/05	0	33	52	5/13/05	0.12	42	55	6/13/05	0.01	69	91	7/13/05	0	62	93				
4/14/05	0	34	56	5/14/05	0.8	44	87	6/14/05	0	66	87	7/14/05	0.74	67	87				
4/15/05	0	34	64	5/15/05	0	39	66	6/15/05	0	63	92	7/15/05	0.63	66	84				
4/16/05	0	32	70	5/16/05	0	35	55	6/16/05	0.11	55	80	7/16/05	0.25	67	88				
4/17/05	0	45	75	5/17/05	0	34	55	6/17/05	0.01	48	79	7/17/05	0.07	69	88				
4/18/05	0	43	74	5/18/05	0	39	68	6/18/05	0	47	74	7/18/05	0.25	69	89				
4/19/05	0	51	80	5/19/05	0.13	48	75	6/19/05	0	49	76	7/19/05	0	67	92				
4/20/05	0.67	50	83	5/20/05	0.02	51	66	6/20/05	0	47	76	7/20/05	0	57	89				
4/21/05	0.09	39	80	5/21/05	0	37	74	6/21/05	0.11	51	80	7/21/05	0.39	57	92				
4/22/05	0.49	35	55	5/22/05	0.06	45	75	6/22/05	0	66	84	7/22/05	0	60	89				
4/23/05	1.26	35	51	5/23/05	0.15	48	69	6/23/05	0	42	78	7/23/05	0	61	85				
4/24/05	0.17	29	39	5/24/05	0.02	48	74	6/24/05	0	51	85	7/24/05	0.02	66	85				
4/25/05	0.09	29	38	5/25/05	0	44	61	6/25/05	0.04	60	93	7/25/05	0.36	64	92				
4/26/05	0.39	38	62	5/26/05	0	44	71	6/26/05	0	66	100	7/26/05	0.72	69	94				
4/27/05	0.01	40	55	5/27/05	0.01	45	79	6/27/05	0	65	99	7/27/05	0.77	63	93				
4/28/05	0.04	36	55	5/28/05	0.28	46	80	6/28/05	0.58	66	95	7/28/05	0	59	82				
4/29/05	0.06	37	58	5/29/05	0	43	70	6/29/05	0.23	62	91	7/29/05	0	55	82				
4/30/05	0.05	40	59	5/30/05	0.01	47	66	6/30/05	0.31	64	88	7/30/05	0	57	83				
				5/31/05	0.01	44	74					7/31/05	0	55	79				

Daily Weather Summary for 4/1/2006 to 8/31/2006 at OARDC – North Central Agricultural Research Station, Fremont, Ohio 43420
Sandusky County, Latitude: 41° 21' N; Longitude: 83° 07' W; Elevation: 636 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
4/1/06	0.52	42	70	5/1/06	0	49	73	6/1/06	0	63	88	7/1/06	0	-	82	8/1/06	0	68	95
4/2/06	0	36	53	5/2/06	0	49	74	6/2/06	0	59	76	7/2/06	0	72	91	8/2/06	0	72	95
4/3/06	0.38	46	57	5/3/06	0.39	49	65	6/3/06	0.02	50	73	7/3/06	0.12	59	86	8/3/06	0	69	94
4/4/06	0	25	60	5/4/06	0	50	74	6/4/06	0.52	51	75	7/4/06	0.78	63	82	8/4/06	0.03	55	87
4/5/06	0	28	52	5/5/06	0	38	76	6/5/06	0.03	44	73	7/5/06	0	56	82	8/5/06	0	57	87
4/6/06	0	28	56	5/6/06	0	43	71	6/6/06	0	48	80	7/6/06	0	47	74	8/6/06	0	52	85
4/7/06	0.41	34	64	5/7/06	0	29	59	6/7/06	0	54	84	7/7/06	0	48	77	8/7/06	0	66	88
4/8/06	0	29	65	5/8/06	0	32	67	6/8/06	0	54	75	7/8/06	0	48	80	8/8/06	0	59	88
4/9/06	0	26	45	5/9/06	0	41	74	6/9/06	0.07	52	82	7/9/06	0	57	83	8/9/06	0	48	80
4/10/06	0	29	56	5/10/06	0	46	76	6/10/06	0	48	82	7/10/06	0	-	83	8/10/06	0	56	83
4/11/06	0	34	65	5/11/06	0.96	53	77	6/11/06	0	41	70	7/11/06	0.02	58	82	8/11/06	0	60	82
4/12/06	0	43	76	5/12/06	0.18	39	61	6/12/06	0	45	68	7/12/06	0.42	65	83	8/12/06	0	43	79
4/13/06	0.02	41	75	5/13/06	0.14	38	50	6/13/06	0	44	70	7/13/06	1.36	60	81	8/13/06	0	41	80
4/14/06	0.02	45	78	5/14/06	0.53	42	60	6/14/06	0	51	73	7/14/06	0	57	82	8/14/06	0	56	84
4/15/06	0	50	77	5/15/06	0.43	44	59	6/15/06	0	45	75	7/15/06	0.74	63	89	8/15/06	0.04	49	85
4/16/06	0	39	74	5/16/06	0.54	45	53	6/16/06	0	50	79	7/16/06	0	60	90	8/16/06	0	48	84
4/17/06	0.01	40	62	5/17/06	0.17	46	64	6/17/06	0	58	88	7/17/06	0	64	92	8/17/06	0	52	83
4/18/06	0	33	57	5/18/06	0.06	43	71	6/18/06	0	67	90	7/18/06	0	64	94	8/18/06	0	54	87
4/19/06	0	36	62	5/19/06	0.14	39	62	6/19/06	0.94	61	87	7/19/06	0	58	82	8/19/06	0	63	87
4/20/06	0	32	71	5/20/06	0	37	61	6/20/06	0.37	55	81	7/20/06	0	59	88	8/20/06	0	57	81
4/21/06	0	42	78	5/21/06	0	41	67	6/21/06	0.09	55	80	7/21/06	0	67	88	8/21/06	0	45	77
4/22/06	0.76	48	78	5/22/06	0	34	61	6/22/06	1.99	56	81	7/22/06	0.06	59	84	8/22/06	0	49	84
4/23/06	0.02	40	78	5/23/06	0	32	62	6/23/06	1.29	59	89	7/23/06	0	-	80	8/23/06	0	49	85
4/24/06	0.04	37	79	5/24/06	0	39	70	6/24/06	0	51	75	7/24/06	0	53	82	8/24/06	-	55	84
4/25/06	0	39	66	5/25/06	0.32	48	78	6/25/06	0	46	76	7/25/06	0	60	86	8/25/06	0.33	57	82
4/26/06	0	21	65	5/26/06	0.73	57	85	6/26/06	0	53	78	7/26/06	0	62	89	8/26/06	0	56	88
4/27/06	0	29	50	5/27/06	0.41	52	76	6/27/06	0.03	59	80	7/27/06	0.22	62	88	8/27/06	0.38	64	88
4/28/06	0	27	61	5/28/06	0	58	84	6/28/06	0	57	85	7/28/06	1.32	63	85	8/28/06	0.03	62	78
4/29/06	0.05	33	70	5/29/06	0	65	89	6/29/06	0.13	52	84	7/29/06	0	64	87	8/29/06	1.54	60	75
4/30/06	0	47	61	5/30/06	0	61	91	6/30/06	0	51	79	7/30/06	0	67	90	8/30/06	0.16	58	69
				5/31/06	0	63	92					7/31/06	.03	68	91	8/31/06	-	60	76

Daily Weather Summary for 4/1/2006 to 8/31/2006 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
4/1/06	0	47.5	59.4	5/1/06	0	50.5	75.3	6/1/06	0.23	66	81.5	7/1/06	0	54.3	87.5	8/1/06	0	74.1	92.3
4/2/06	0.01	43.1	57.2	5/2/06	0.30	45.3	61.6	6/2/06	0.58	54.8	66.7	7/2/06	0.29	65.4	85.2	8/2/06	0.09	73.4	91.5
4/3/06	0.03	37.1	67.8	5/3/06	0.07	50.7	71.8	6/3/06	0.02	51.9	73.2	7/3/06	0.05	65.3	82.7	8/3/06	0	71.0	88.5
4/4/06	0	29.7	53.0	5/4/06	0	47.9	75.7	6/4/06	0.19	50.5	69.2	7/4/06	0.60	67.4	77.4	8/4/06	0	63.4	84.0
4/5/06	0.04	31.8	49.2	5/5/06	0	42.2	70.8	6/5/06	0	45.3	77.2	7/5/06	0	53.7	72.4	8/5/06	0	59.9	86.4
4/6/06	0	31.1	63.0	5/6/06	0	38.7	57.6	6/6/06	0	48.7	83.6	7/6/06	0	50.1	74.4	8/6/06	0	60.4	89.1
4/7/06	0.62	39.2	75.1	5/7/06	0	29.6	68.5	6/7/06	0	54.3	80.2	7/7/06	0	50.4	80.2	8/7/06	0	70.8	88.5
4/8/06	0	30.2	42.1	5/8/06	0	34.7	70.0	6/8/06	0	54.5	81.3	7/8/06	0	54.1	82.1	8/8/06	0	58.9	81.7
4/9/06	0	24.1	53.6	5/9/06	0	39.9	74.0	6/9/06	0	53.9	72.7	7/9/06	0.01	55.9	82.4	8/9/06	0	54.1	84.2
4/10/06	0	29.3	66.1	5/10/06	0.17	52.6	78.2	6/10/06	0	45.2	66.6	7/10/06	0.92	65.2	83.6	8/10/06	0	63.6	83.1
4/11/06	0	34.2	76.1	5/11/06	0.17	47.3	66.2	6/11/06	0	41.4	67.2	7/11/06	0.06	62.1	82.4	8/11/06	0	59.1	80.9
4/12/06	0.13	56.5	74.4	5/12/06	0.30	45.3	52.5	6/12/06	0	44.6	68.9	7/12/06	1.2	68.6	78.9	8/12/06	0	52.3	80.2
4/13/06	0	46.9	75.7	5/13/06	0.18	45.3	62.5	6/13/06	0	46.5	74.8	7/13/06	0	67.8	86.3	8/13/06	0	49.8	85.3
4/14/06	0.03	56.7	76.3	5/14/06	0.60	49.1	63.6	6/14/06	0	49..3	75.3	7/14/06	0.77	64.5	89.2	8/14/06	0.34	57.6	86.1
4/15/06	0	48.9	71.2	5/15/06	0.63	47.6	52.6	6/15/06	0	48.6	78.2	7/15/06	0	68.8	88.1	8/15/06	0	58.7	81.7
4/16/06	0.03	39.8	65.6	5/16/06	0.29	47.8	60.6	6/16/06	0	45.9	86.6	7/16/06	0	65.3	94.1	8/16/06	0	54.8	83.6
4/17/06	0.07	44.0	64.4	5/17/06	0.42	51.9	70.4	6/17/06	0	56.5	88.8	7/17/06	0.01	64.9	91.7	8/17/06	0	56.1	88.1
4/18/06	0	34.5	69.3	5/18/06	0.57	43.0	59.6	6/18/06	0	71.3	87.9	7/18/06	0	67.5	85.7	8/18/06	0.04	65.8	81.6
4/19/06	0	40.6	74.1	5/19/06	0.14	43.1	59.5	6/19/06	0.35	61.2	83.1	7/19/06	0	66	90.8	8/19/06	0.01	69.4	84.3
4/20/06	0	39.0	79.3	5/20/06	0	40.2	63.6	6/20/06	0	56.0	80.3	7/20/06	0	66.7	88.4	8/20/06	0	55.2	76.5
4/21/06	0.12	57.2	75.1	5/21/06	0.08	40.4	61.6	6/21/06	0.71	53.2	78.3	7/21/06	0.24	69.7	84.7	8/21/06	0.01	49.5	82.0
4/22/06	0.01	56.1	74.3	5/22/06	0.06	37.9	60.0	6/22/06	1.37	64.5	90.5	7/22/06	2.18	58.7	75.4	8/22/06	0	53.2	84.7
4/23/06	0.23	49.8	65.4	5/23/06	0	32.8	65.2	6/23/06	0.08	59.8	74.4	7/23/06	0.10	56.0	80.1	8/23/06	0.01	56.4	83.3
4/24/06	0	44.8	63.4	5/24/06	0	38.4	76.7	6/24/06	0	52.7	77.9	7/24/06	0	57.8	84.3	8/24/06	0.03	56.6	81.5
4/25/06	0.17	31.6	54.7	5/25/06	1.18	54.9	83.8	6/25/06	0.01	49.4	81.5	7/25/06	0	60.6	87.6	8/25/06	0	62.0	87.4
4/26/06	0.01	24.5	59.8	5/26/06	0.14	59.5	73.9	6/26/06	0	63.4	80.2	7/26/06	0	62.6	87.2	8/26/06	0	61.7	89.4
4/27/06	0	32.7	70.0	5/27/06	0.01	55.4	83.8	6/27/06	0	63.6	84.8	7/27/06	0	72.2	82.3	8/27/06	0.39	69.7	83.7
4/28/06	0	35.3	65.1	5/28/06	0	57.0	89.7	6/28/06	0.53	58.4	79.0	7/28/06	0.02	69.8	85.5	8/28/06	0.13	68.1	75.0
4/29/06	0	37.0	70.9	5/29/06	0	60.1	91.9	6/29/06	0.01	55.7	75.6	7/29/06	0	69.0	87.4	8/29/06	0.21	66.3	73.3
4/30/06	0	53.1	74.6	5/30/06	0	61.7	92.7	6/30/06	0	54.4	80.2	7/30/06	0.03	71.5	89.3	8/30/06	0	64.0	72.3
				5/31/06	0.52	63.0	88.7					7/31/06	0	71.9	92.0	8/31/06	0	62.4	74.0

Daily Weather Summary for 4/1/2006 to 8/31/2006 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
4/1/06	0	44.5	56.6	5/1/06	0	53.8	71.8	6/1/06	0	66.0	76.4	7/1/06	0	54.8	89.4	8/1/06	0	75.0	93.7
4/2/06	0.50	40.8	56.6	5/2/06	0.15	54.7	66.9	6/2/06	0.18	55.9	67.6	7/2/06	0.51	66.7	84.3	8/2/06	0	73.9	92.9
4/3/06	0.06	34.6	60.1	5/3/06	0.12	54.0	73.2	6/3/06	0.02	52.9	75.0	7/3/06	0.13	63.3	78.8	8/3/06	0.07	71.2	85.9
4/4/06	0	30.6	50.3	5/4/06	0	51.2	78.8	6/4/06	0.14	51.7	69.4	7/4/06	0.13	65.0	78.4	8/4/06	0	62.8	84.7
4/5/06	0	30.6	53.1	5/5/06	0	41.4	71.2	6/5/06	0	46.0	79.9	7/5/06	0	55.2	73.1	8/5/06	0	58.6	85.0
4/6/06	0	33.0	62.8	5/6/06	0	41.6	60.0	6/6/06	0	48.2	88.1	7/6/06	0	49.6	75.5	8/6/06	0	58.6	87.6
4/7/06	0.56	35.4	71.1	5/7/06	0	33.4	67.4	6/7/06	0	56.9	75.3	7/7/06	0	47.4	78.3	8/7/06	0	69.4	91.1
4/8/06	0	26.4	38.5	5/8/06	0	34.2	73.1	6/8/06	0.13	55.9	81.4	7/8/06	0	51.3	79.9	8/8/06	0	58.6	80.2
4/9/06	0	22.0	51.7	5/9/06	0	44.2	74.3	6/9/06	0	54.5	71.9	7/9/06	0	58.1	80.9	8/9/06	0	49.8	81.8
4/10/06	0	30.6	63.5	5/10/06	0.24	55.4	77.4	6/10/06	0	49.1	67.4	7/10/06	0.03	64.8	83.6	8/10/06	0	63.6	82.0
4/11/06	0	33.8	75.3	5/11/06	0.06	50.5	65.0	6/11/06	0	42.5	67.1	7/11/06	0.72	62.9	82.0	8/11/06	0	55.9	80.0
4/12/06	0.15	55.9	76.0	5/12/06	0.52	45.1	50.8	6/12/06	0	45.6	67.2	7/12/06	0.58	69.4	77.7	8/12/06	0	46.5	81.1
4/13/06	0	43.7	77.4	5/13/06	0.36	45.1	59.5	6/13/06	0	44.4	73.8	7/13/06	0	68.6	83.2	8/13/06	0	45.6	82.9
4/14/06	0.19	56.6	76.0	5/14/06	0.57	48.3	58.6	6/14/06	0	52.1	80.4	7/14/06	0.72	64.0	87.9	8/14/06	0.10	59.3	85.6
4/15/06	0	48.1	72.5	5/15/06	0.66	48.2	50.6	6/15/06	0	46.9	79.2	7/15/06	0	68.9	87.4	8/15/06	0	54.8	83.4
4/16/06	0.09	40.0	66.3	5/16/06	0.66	48.9	61.6	6/16/06	0	48.0	86.1	7/16/06	0	63.1	89.8	8/16/06	0	50.3	84.3
4/17/06	0.01	40.0	57.3	5/17/06	0.10	51.5	70.1	6/17/06	0	60.4	90.1	7/17/06	0	66.9	89.0	8/17/06	0	55.0	86.3
4/18/06	0	33.8	64.9	5/18/06	0.34	44.2	59.7	6/18/06	0.28	69.1	89.4	7/18/06	0	67.1	83.0	8/18/06	0	64.7	86.3
4/19/06	0	36.2	72.5	5/19/06	0.04	42.9	61.1	6/19/06	0.86	61.9	82.9	7/19/06	0	64.7	87.4	8/19/06	0.02	67.4	79.7
4/20/06	0	36.2	78.8	5/20/06	0	40.7	65.2	6/20/06	0	58.6	77.9	7/20/06	0	64.0	86.1	8/20/06	0	55.5	75.1
4/21/06	0.07	55.2	76.7	5/21/06	0.07	43.1	61.7	6/21/06	1.61	60.2	79.0	7/21/06	0	69.8	83.4	8/21/06	0	48.0	81.1
4/22/06	0.03	53.1	73.2	5/22/06	0	37.1	62.3	6/22/06	0.86	64.7	89.2	7/22/06	0.81	59.3	75.8	8/22/06	0	52.2	83.2
4/23/06	0.38	47.4	64.9	5/23/06	0	34.8	66.4	6/23/06	0.03	62.4	71.9	7/23/06	0.01	53.3	79.2	8/23/06	0	55.2	84.3
4/24/06	0	44.5	62.2	5/24/06	0.30	40.1	74.8	6/24/06	0	54.3	75.0	7/24/06	0	58.1	82.5	8/24/06	0.07	57.4	80.9
4/25/06	0.17	32.2	49.6	5/25/06	0.84	56.8	83.8	6/25/06	0	47.8	77.9	7/25/06	0	63.3	85.9	8/25/06	0	60.2	86.1
4/26/06	0	24.6	58.0	5/26/06	0.46	59.9	74.1	6/26/06	0	58.1	78.3	7/26/06	0.19	64.7	85.2	8/26/06	0	57.6	87.7
4/27/06	0	35.4	69.7	5/27/06	0	54.1	82.3	6/27/06	0	63.1	83.0	7/27/06	0.26	71.9	81.8	8/27/06	0.57	69.3	78.8
4/28/06	0	33.8	62.8	5/28/06	0	59.3	86.6	6/28/06	0	60.2	82.7	7/28/06	0.22	67.9	84.3	8/28/06	0.39	67.9	74.8
4/29/06	0	36.2	70.4	5/29/06	0	63.5	90.3	6/29/06	0.03	55.0	77.1	7/29/06	0	87.7	87.7	8/29/06	0.25	65.3	72.9
4/30/06	0	50.3	72.5	5/30/06	0	62.9	90.7	6/30/06	0	53.3	80.2	7/30/06	0	89.8	89.8	8/30/06	0	60.0	73.8
				5/31/06	0	65.9	89.0					7/31/06	0	92.2	92.2	8/31/06	0.02	62.1	-

The Ohio State University

APPLE- WEED CONTROL AND CROP TOLERANCE USING SANDEA ON FUJI

Trial ID: APPSANDEAFJW 2006
Location: Wooster, Ohio

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

TRIAL LOCATION

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

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 05/02/06
Planned Completion Date: 11/15/06

Objective: To evaluate weed control and crop tolerance using Sandea.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	AGRASS	annual grasses (various)	*Panicum spp.and Digitaria spp.*
2	CERVU	mouseear chickweed	*Cerastium vulgatum L.*
3	CAPBP	shepherd's purse	*Capsella bursa-pastoris (L.) Medicus*
4	CHEAL	common lambsquarters	*Chenopodium album L.*
5	CIRAR	Canada thistle	*Cirsium arvense (L) SCOP.*
6	DIGSA	large crabgrass	*Digitaria sanguinalis (L.) Scop.*
7	EPHMA	spotted spurge	*Euphorbia maculata L.*
8	OXAST	yellow woodsorrel	*Oxalis stricta L.*
9	PANDI	fall panicum	*Panicum dichotomiflorum Michx.*
10	PLAMA	broadleaf plantain	*Plantago major L.*
11	POAAN	annual bluegrass	*Poa annua L.*
12	POROL	common purslane	*Portulaca oleracea L.*
13	SENVU	common groundsel	*Senecio vularis L.*
14	SETFA	giant foxtail	*Setaria faberii*
15	SOLPT	Eastern black nightshade	*Solanum ptycanthum*
16	TAROF	dandelion	*Taraxacum officinale Weber*
17	TRFRE	white clover	*Trifolium repens L.*

Crop 1: MABSD APPLE
Planting Date: 05/15/02
Rate: 388 TREES/ACRE Depth:18 IN
Row Spacing: 2.5 M X 4.5 M

Variety: DESERT ROSE FUJI/B9
Planting Method: BARE ROOT TRANSPLANT
Perennial Age: 3 YEARS
Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 5 FT
Site Type: LEVEL WELL DRAINED FIELD
Tillage Type: NONE

Plot Length, Unit: 8 FT
Reps: 4
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 15
% Silt: 67
% Clay: 15

% OM: 3.11
pH: 5.11
CEC: 12.0

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

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APPLE- WEED CONTROL AND CROP TOLERANCE USING SANDEA ON FUJI

Trial ID: APPSANDEAFJW 2006 | Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio | Investigator: Doug Doohan

APPLICATION DESCRIPTION

	A	B
Application Date:	5/2/2006	7/6/2006
Time of Day:	9-10 AM	8-9 AM
Application Method:	SPRAY	SPRAY
Application Timing:	POST A	POST B
Applic. Placement:	DIRECTED	DIRECTED
Air Temp., Unit:	58.1 F	63.6 F
% Relative Humidity:	55.8	82.4
Wind Velocity, Unit:	1.5 MPH	2 MPH
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	100	80

CROP STAGE AT EACH APPLICATION

	A		B	
Crop 1 Code, Stage:	MABSD	POST A	MABSD	POST B
Stage Scale:	50% BLOOM		POST BLOOM	
Height, Unit:	7 FT		7 FT	

WEED STAGE AT EACH APPLICATION

	A		B	
Weed 1 Code, Stage:	AGRASS	POST A	AGRASS	POST B
Stage Scale:	1-4 IN		6-12 IN	
Density, Unit:	LOW	PLOT	LOW	PLOT
Weed 2 Code, Stage:	CERVU	POST A	CERVU	POST B
Stage Scale:	4 LF		4 IN DIAM	
Density, Unit:	LOW	PLOT	LOW	PLOT
Weed 3 Code, Stage:	CAPBP	POST A	CAPBP	POST B
Stage Scale:	2 IN		.	
Density, Unit:	LOW	PLOT	. .	
Weed 4 Code, Stage:	CHEAL	POST A	CHEAL	POST B
Stage Scale:	4-10 LF		6-12 IN	
Density, Unit:	MEDIUM	PLOT	MEDIUM	PLOT
Weed 5 Code, Stage:	CIRAR	POST A	CIRAR	POST B
Stage Scale:	1-4 IN		12-18 IN	
Density, Unit:	LOW	PLOT	LOW	PLOT
Weed 6 Code, Stage:	DIGSA	POST A	DIGSA	POST B
Stage Scale:	.		.	
Density, Unit:	. .		. .	
Weed 7 Code, Stage:	EPHMA	POST A	EPHMA	POST B
Stage Scale:	.		.	
Density, Unit:	. .		. .	
Weed 8 Code, Stage:	OXAST	POST A	OXAST	POST B
Stage Scale:	.		.	
Density, Unit:	. .		. .	
Weed 9 Code, Stage:	PANDI	POST A	PANDI	POST B
Stage Scale:	.		.	
Density, Unit:	. .		. .	
Weed10 Code, Stage:	PLAMA	POST A	PLAMA	POST B
Stage Scale:	.		4 IN DIAM	
Density, Unit:	. .		LOW	PLOT
Weed11 Code, Stage:	POAAN	POST A	POAAN	POST B
Stage Scale:	1 IN		6-12 IN	
Density, Unit:	LOW	PLOT	MEDIUM	PLOT

The Ohio State University

APPLE- WEED CONTROL AND CROP TOLERANCE USING SANDEA ON FUJI

Trial ID: APPSANDEAFJW 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

Weed12 Code, Stage:	POROL	POST A	POROL	POST B
Stage Scale:	.		.	
Density, Unit:	. .		. .	
Weed13 Code, Stage:	SENVU	POST A	SENVU	POST B
Stage Scale:	.		.	
Density, Unit:	. .		. .	
Weed14 Code, Stage:	SETFA	POST A	SETFA	POST B
Stage Scale:	.		.	
Density, Unit:	. .		. .	
Weed15 Code, Stage:	SOLPT	POST A	SOLPT	POST B
Stage Scale:	1 TRUE LF		3-12 IN	
Density, Unit:	MEDIUM	PLOT	MEDIUM	PLOT
Weed16 Code, Stage:	TAROF	POST A	TAROF	POST B
Stage Scale:	4-10 LF		8 IN DIAM	
Density, Unit:	HIGH	PLOT	MEDIUM	PLOT
Weed17 Code, Stage:	TRFRE	POST A	TRFRE	POST B
Stage Scale:	.		.	
Density, Unit:	. .		. .	

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	35	35
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8003EVS	8003EVS
Nozzles/Row:	1	1
Band Width, Unit:	30 IN	30 IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	2 MPH	2 MPH
Spray Volume, Unit:	25 GPA	25 GPA

Trial Comments

Evaluation parameters taken this year included:
1. trunk diameter taken 12" from soil surface
2. foilage symptoms throughout the growing season
3. selection of 3 scaffold branches; circumference of each branch at base
4. bloom cluster counts, and fruit yield per branch
5. measurement of this years' growth at the most terminal shoot of selected scaffold branch, (from last years' leaf scar to shoot tip)

In the Trt-Eval Interval, " DAT" refers to days after treatment, and " WAT" refers to weeks after treatment.
This is the second year for the trial.

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APPLE- WEED CONTROL AND CROP TOLERANCE
USING SANDEA ON FUJI

Trial ID: APPSANDEAFJW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								AGRASS
Crop Code							MABSD	MABSD
Part Rated				LIMB 1	LIMB 2	LIMB 3	LEAF	WEED
Rating Data Type				BLOOM	BLOOM	BLOOM	INJURY	CONTROL
Rating Unit				CLUSTER #	CLUSTER #	CLUSTER #	%	%
Rating Date				5/1/2006	5/1/2006	5/1/2006	6/2/2006	6/2/2006
Trt-Eval Interval				6 DAT	6 DAT	6 DAT	4 WAT	4 WAT
				POST A	POST A	POST A	POST A	POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
UNTREATED CONTROL				17	12	8	0	0
SANDEA+	1	OZ/A	POST A	11	19	30	0	55
NIS+	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	2	OZ/A	POST A	41	19	27	0	83
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	4	OZ/A	POST A	25	9	29	0	90
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SINBAR+	0.5	LB/A	POST A	38	18	42	0	75
GRAMAXONE	2	PT/A	POST A					
SINBAR+	0.5	LB/A	POST B					
GRAMAXONE	2	PT/A	POST B					
LSD (P=.05)				42	28	47	0	41
Standard Deviation				27.1	18.1	30.6	0	26.3
CV				103.97	118.37	112.99	0	43.53

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APPLE- WEED CONTROL AND CROP TOLERANCE
USING SANDEA ON FUJI

Trial ID: APPSANDEAFJW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				SOLPT	TRFRE	TAROF	SENVU	CHEAL	PLAMA
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/2/2006	6/2/2006	6/2/2006	6/2/2006	6/2/2006	6/2/2006
Trt-Eval Interval				4 WAT	4 WAT	4 WAT	4 WAT	4 WAT	4 WAT
				POST A	POST A	POST A	POST A	POST A	POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10	11
UNTREATED CONTROL				0	0	0	0	0	0
SANDEA+	1	OZ/A	POST A	43	66	71	99	99	70
NIS+	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	1	OZ/A	POST B						
NIS+	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SANDEA+	2	OZ/A	POST A	48	66	84	99	99	84
NIS	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	2	OZ/A	POST B						
NIS	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SANDEA+	4	OZ/A	POST A	44	95	90	99	99	92
NIS	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	4	OZ/A	POST B						
NIS	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SINBAR+	0.5	LB/A	POST A	89	96	50	99	99	99
GRAMAXONE	2	PT/A	POST A						
SINBAR+	0.5	LB/A	POST B						
GRAMAXONE	2	PT/A	POST B						
LSD (P=.05)				27	38	28	0	0	16
Standard Deviation				17.6	24.7	17.9	0	0	10.2
CV				39.37	38.38	30.3	0	0	14.72

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APPLE- WEED CONTROL AND CROP TOLERANCE
USING SANDEA ON FUJI

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

Weed Code				POROL	CAPBP		AGRASS	SOLPT
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				WEED	WEED	LEAF	WEED	WEED
Rating Data Type				CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/2/2006	6/2/2006	7/5/2006	7/5/2006	7/5/2006
Trt-Eval Interval				4 WAT	4 WAT	8 WAT	8 WAT	8 WAT
				POST A	POST A	POST A	POST A	POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	12	13	14	15	16
UNTREATED CONTROL				0	0	0	0	0
SANDEA+	1	OZ/A	POST A	99	56	0	54	5
NIS+	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	2	OZ/A	POST A	50	93	0	50	40
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	4	OZ/A	POST A	74	99	0	40	23
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SINBAR+	0.5	LB/A	POST A	99	99	0	38	87
GRAMAXONE	2	PT/A	POST A					
SINBAR+	0.5	LB/A	POST B					
GRAMAXONE	2	PT/A	POST B					
LSD (P=.05)				48	34	0	47	29
Standard Deviation				31.3	21.8	0	30.6	19.1
CV				48.65	31.35	0	84.39	61.75

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Trial ID: APPSANDEAFJW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				TRFRE	TAROF	SENVU	CHEAL	PLAMA
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/5/2006	7/5/2006	7/5/2006	7/5/2006	7/5/2006
Trt-Eval Interval				8 WAT	8 WAT	8 WAT	8 WAT	8 WAT
				POST A	POST A	POST A	POST A	POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	17	18	19	20	21
UNTREATED CONTROL				0	0	0	0	0
SANDEA+	1	OZ/A	POST A	61	97	92	99	30
NIS+	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	2	OZ/A	POST A	73	98	99	99	86
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	4	OZ/A	POST A	46	99	99	99	84
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SINBAR+	0.5	LB/A	POST A	81	55	96	92	99
GRAMAXONE	2	PT/A	POST A					
SINBAR+	0.5	LB/A	POST B					
GRAMAXONE	2	PT/A	POST B					
LSD (P=.05)				32	28	11	6	20
Standard Deviation				21	17.9	7	4	12.7
CV				40.22	25.63	9.06	5.21	21.27

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USING SANDEA ON FUJI

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

Weed Code				POROL	CAPBP				
Crop Code				MABSD	MABSD	MABSD		MABSD	
Part Rated				WEED	WEED	TRUNK	LIMB 1	LIMB 1	LIMB 2
Rating Data Type				CONTROL	CONTROL	CIRCUM	DIAM	COUNT	DIAM
Rating Unit				%	%	CM	CM	FRUIT #	CM
Rating Date				7/5/2006	7/5/2006	8/7/2006	8/7/2006	8/7/2006	8/7/2006
Trt-Eval Interval				8 WAT	8 WAT	4 WAT	4 WAT	4 WAT	4 WAT
				POST A	POST A	POST B	POST B	POST B	POST B
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	22	23	24	25	26	27
UNTREATED CONTROL				0	0	15.3	8.5	22	10.4
SANDEA+	1	OZ/A	POST A	80	92	15	6.9	19	8.8
NIS+	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	1	OZ/A	POST B						
NIS+	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SANDEA+	2	OZ/A	POST A	74	96	16.5	9.3	20	6
NIS	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	2	OZ/A	POST B						
NIS	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SANDEA+	4	OZ/A	POST A	92	74	15.4	9.5	25	9.1
NIS	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	4	OZ/A	POST B						
NIS	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SINBAR+	0.5	LB/A	POST A	99	99	12.5	8.9	32	7.3
GRAMAXONE	2	PT/A	POST A						
SINBAR+	0.5	LB/A	POST B						
GRAMAXONE	2	PT/A	POST B						
LSD (P=.05)				39	33	6	2	20	6
Standard Deviation				25	21.3	3.88	1.44	13.2	3.73
CV				36.19	29.46	25.99	16.72	56.38	44.89

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APPLE- WEED CONTROL AND CROP TOLERANCE
USING SANDEA ON FUJI

Trial ID: APPSANDEAFJW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								SOLPT	TRFRE
Crop Code				MABSD		MABSD	MABSD	MABSD	MABSD
Part Rated				LIMB 2	LIMB 3	LIMB 3	LEAF	WEED	WEED
Rating Data Type				COUNT	DIAM	COUNT	INJURY	CONTROL	CONTROL
Rating Unit				FRUIT #	CM	FRUIT #	%	%	%
Rating Date				8/7/2006	8/7/2006	8/7/2006	8/7/2006	8/7/2006	8/7/2006
Trt-Eval Interval				4 WAT	4 WAT	4 WAT	4 WAT	4 WAT	4 WAT
				POST B	POST B	POST B	POST B	POST B	POST B
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	28	29	30	31	32	33
UNTREATED CONTROL				17	7.5	14	0	0	0
SANDEA+	1	OZ/A	POST A	10	8.4	25	0	0	59
NIS+	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	1	OZ/A	POST B						
NIS+	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SANDEA+	2	OZ/A	POST A	13	9	20	0	0	85
NIS	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	2	OZ/A	POST B						
NIS	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SANDEA+	4	OZ/A	POST A	10	8.5	27	0	0	88
NIS	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	4	OZ/A	POST B						
NIS	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SINBAR+	0.5	LB/A	POST A	15	9	34	0	70	91
GRAMAXONE	2	PT/A	POST A						
SINBAR+	0.5	LB/A	POST B						
GRAMAXONE	2	PT/A	POST B						
LSD (P=.05)				18	3	26	0	32	28
Standard Deviation				11.4	1.82	16.5	0	20.9	18.4
CV				87.74	21.48	69.21	0	149.26	28.56

The Ohio State University

APPLE- WEED CONTROL AND CROP TOLERANCE
USING SANDEA ON FUJI

Trial ID: APPSANDEAFJW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				DIGSA	TAROF	PANDI	SETFA	SENVU	CHEAL
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				8/7/2006	8/7/2006	8/7/2006	8/7/2006	8/3/2006	8/3/2006
Trt-Eval Interval				4 WAT	4 WAT	4 WAT	4 WAT	4 WAT	4 WAT
				POST B	POST B	POST B	POST B	POST B	POST B
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	34	35	36	37	38	39
UNTREATED CONTROL				0	0	0	0	0	0
SANDEA+	1	OZ/A	POST A	56	60	99	99	99	99
NIS+	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	1	OZ/A	POST B						
NIS+	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SANDEA+	2	OZ/A	POST A	85	99	96	92	99	99
NIS	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	2	OZ/A	POST B						
NIS	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SANDEA+	4	OZ/A	POST A	83	98	99	99	99	99
NIS	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	4	OZ/A	POST B						
NIS	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SINBAR+	0.5	LB/A	POST A	88	83	87	99	99	99
GRAMAXONE	2	PT/A	POST A						
SINBAR+	0.5	LB/A	POST B						
GRAMAXONE	2	PT/A	POST B						
LSD (P=.05)				29	29	7	10	0	0
Standard Deviation				18.6	18.9	4.7	6.5	0	0
CV				29.92	27.88	6.18	8.34	0	0

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APPLE- WEED CONTROL AND CROP TOLERANCE
USING SANDEA ON FUJI

Trial ID: APPSANDEAFJW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				OXAL	PLAMA	POROL	EPHMA	CIRAR
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/3/2006	8/3/2006	8/3/2006	8/3/2006	8/3/2006
Trt-Eval Interval				4 WAT	4 WAT	4 WAT	4 WAT	4 WAT
				POST B	POST B	POST B	POST B	POST B
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	40	41	42	43	44
UNTREATED CONTROL				0	0	0	0	0
SANDEA+	1	OZ/A	POST A	99	74	99	74	99
NIS+	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	2	OZ/A	POST A	99	74	74	99	99
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	4	OZ/A	POST A	99	97	99	99	99
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SINBAR+	0.5	LB/A	POST A	99	99	99	98	99
GRAMAXONE	2	PT/A	POST A					
SINBAR+	0.5	LB/A	POST B					
GRAMAXONE	2	PT/A	POST B					
LSD (P=.05)				0	50	34	34	0
Standard Deviation				0	32.4	22.1	21.9	0
CV				0	47.09	29.81	29.62	0

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APPLE- WEED CONTROL AND CROP TOLERANCE
USING SANDEA ON FUJI

Trial ID: APPSANDEAFJW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					SOLPT	TRFRE	DIGSA	TAROF	PANDI
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				LEAF	WEED	WEED	WEED	WEED	WEED
Rating Data Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				9/2/2006	9/2/2006	9/2/2006	9/2/2006	9/2/2006	9/2/2006
Trt-Eval Interval				8 WAT	8 WAT	8 WAT	8 WAT	8 WAT	8 WAT
				POST B	POST B	POST B	POST B	POST B	POST B
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	45	46	47	48	49	50
UNTREATED CONTROL				0	0	0	0	0	0
SANDEA+	1	OZ/A	POST A	0	0	25	18	74	99
NIS+	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	1	OZ/A	POST B						
NIS+	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SANDEA+	2	OZ/A	POST A	0	0	97	43	99	96
NIS	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	2	OZ/A	POST B						
NIS	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SANDEA+	4	OZ/A	POST A	0	0	96	83	99	99
NIS	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	4	OZ/A	POST B						
NIS	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SINBAR+	0.5	LB/A	POST A	0	84	99	62	21	87
GRAMAXONE	2	PT/A	POST A						
SINBAR+	0.5	LB/A	POST B						
GRAMAXONE	2	PT/A	POST B						
LSD (P=.05)				0	3	34	50	43	7
Standard Deviation				0	2.1	21.9	32.2	27.9	4.7
CV				0	12.78	34.66	78.76	47.61	6.18

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APPLE- WEED CONTROL AND CROP TOLERANCE
USING SANDEA ON FUJI

Trial ID: APPSANDEAFJW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				SETFA	SENVU	CHEAL	OXAL	PLAMA
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				9/2/2006	9/2/2006	9/2/2006	9/2/2006	9/2/2006
Trt-Eval Interval				8 WAT	8 WAT	8 WAT	8 WAT	8 WAT
				POST B	POST B	POST B	POST B	POST B
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	51	52	53	54	55
UNTREATED CONTROL				0	0	0	0	0
SANDEA+	1	OZ/A	POST A	99	99	99	99	74
NIS+	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	2	OZ/A	POST A	99	99	99	99	74
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	4	OZ/A	POST A	99	99	99	99	97
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SINBAR+	0.5	LB/A	POST A	99	99	99	99	99
GRAMAXONE	2	PT/A	POST A					
SINBAR+	0.5	LB/A	POST B					
GRAMAXONE	2	PT/A	POST B					
LSD (P=.05)				0	0	0	0	50
Standard Deviation				0	0	0	0	32.4
CV				0	0	0	0	47.09

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APPLE- WEED CONTROL AND CROP TOLERANCE
USING SANDEA ON FUJI

Trial ID: APPSANDEAFJW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				POROL	EPHMA	CIRAR		
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				WEED	WEED	WEED	LIMB 1	LIMB 1
Rating Data Type				CONTROL	CONTROL	CONTROL	YLD	YLD
Rating Unit				%	%	%	FRUIT #	LBS
Rating Date				9/2/2006	9/2/2006	9/2/2006	10/5/2006	10/5/2006
Trt-Eval Interval				8 WAT	8 WAT	8 WAT	HARVEST	HARVEST
				POST B	POST B	POST B		
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	56	57	58	59	60
UNTREATED CONTROL				0	0	0	18	4.8
SANDEA+	1	OZ/A	POST A	99	74	99	19	5.4
NIS+	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	2	OZ/A	POST A	74	99	99	18	5
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	4	OZ/A	POST A	99	98	99	25	6.2
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SINBAR+	0.5	LB/A	POST A	99	98	99	32	8.1
GRAMAXONE	2	PT/A	POST A					
SINBAR+	0.5	LB/A	POST B					
GRAMAXONE	2	PT/A	POST B					
LSD (P=.05)				34	34	0	21	5
Standard Deviation				22.1	21.7	0	13.3	3.31
CV				29.81	29.4	0	59.67	56.43

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APPLE- WEED CONTROL AND CROP TOLERANCE
USING SANDEA ON FUJI

Trial ID: APPSANDEAFJW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				LIMB 2	LIMB 2	LIMB 3	LIMB 3	FRUIT
Rating Data Type				YLD	YLD	YLD	YLD	TTL YLD
Rating Unit				FRUIT #	LBS	FRUIT #	LBS	LBS
Rating Date				10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	61	62	63	64	65
UNTREATED CONTROL				18	4.8	11	2.9	44.4
SANDEA+	1	OZ/A	POST A	10	3.1	24	7.1	46.2
NIS+	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	2	OZ/A	POST A	12	2.5	16	4.5	54.3
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	4	OZ/A	POST A	9	2	26	6.4	42.8
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SINBAR+	0.5	LB/A	POST A	17	4.6	23	5.8	47.7
GRAMAXONE	2	PT/A	POST A					
SINBAR+	0.5	LB/A	POST B					
GRAMAXONE	2	PT/A	POST B					
LSD (P=.05)				20	6	21	7	23
Standard Deviation				12.8	3.53	13.8	4.38	14.4
CV				99.66	103.73	69.51	81.95	30.58

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APPLE- WEED CONTROL AND CROP TOLERANCE
USING SANDEA ON FUJI

Trial ID: APPSANDEAFJW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code						
Crop Code				MABSD	MABSD	MABSD
Part Rated				LIMB 1	LIMB2	LIMB3
Rating Data Type				SHOOT GROWTH	SHOOT GROWTH	SHOOT GROWTH
Rating Unit				CM	CM	CM
Rating Date				10/23/2006	10/23/2006	10/23/2006
Trt-Eval Interval				POST HARVEST	POST HARVEST	POST HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	66	67	68
UNTREATED CONTROL				19.3	19.4	18.3
SANDEA+	1	OZ/A	POST A	20.1	23.8	26.8
NIS+	0.25	QT/A	POST A			
GRAMAXONE	2	PT/A	POST A			
SANDEA+	1	OZ/A	POST B			
NIS+	0.25	QT/A	POST B			
GRAMAXONE	2	PT/A	POST B			
SANDEA+	2	OZ/A	POST A	20.8	23.8	28.8
NIS	0.25	QT/A	POST A			
GRAMAXONE	2	PT/A	POST A			
SANDEA+	2	OZ/A	POST B			
NIS	0.25	QT/A	POST B			
GRAMAXONE	2	PT/A	POST B			
SANDEA+	4	OZ/A	POST A	33.5	21.3	24.5
NIS	0.25	QT/A	POST A			
GRAMAXONE	2	PT/A	POST A			
SANDEA+	4	OZ/A	POST B			
NIS	0.25	QT/A	POST B			
GRAMAXONE	2	PT/A	POST B			
SINBAR+	0.5	LB/A	POST A	19.6	26.3	25.8
GRAMAXONE	2	PT/A	POST A			
SINBAR+	0.5	LB/A	POST B			
GRAMAXONE	2	PT/A	POST B			
LSD (P=.05)				12	11	10
Standard Deviation				7.47	7.06	6.77
CV				32.96	30.84	27.27

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APPLE- WEED CONTROL AND CROP TOLERANCE USING SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2006 | Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio | Investigator: Doug Doohan

TRIAL LOCATION

City: Wooster | Trial Status: Final
State/Prov.: Ohio | Trial Reliability: Reliable
Postal Code: 44691 | Initiation Date: 05/02/06
Country: USA | Planned Completion Date: 12/15/06

Objective: To evaluate weed control and crop tolerance using Sandea.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	AGRASS	annual grasses (various)	*Panicum spp.and Digitaria spp.*
2	CERVU	mouseear chickweed	*Cerastium vulgatum L.*
3	CAPBP	shepherd's purse	*Capsella bursa-pastoris (L.) Medicus*
4	CHEAL	common lambsquarters	*Chenopodium album L.*
5	CIRAR	Canada thistle	*Cirsium arvense (L) SCOP.*
6	DIGSA	large crabgrass	*Digitaria sanguinalis (L.) Scop.*
7	OXAST	yellow woodsorrel	*Oxalis stricta L.*
8	PANDI	fall panicum	*Panicum dichotomiflorum Michx.*
9	PLAMA	broadleaf plantain	*Plantago major L.*
10	POAAN	annual bluegrass	*Poa annua L.*
11	POLAV	prostrate knotweed	*Polygonum aviculare L.*
12	POROL	common purslane	*Portulaca oleracea L.*
13	SENVU	common groundsel	*Senecio vularis L.*
14	SETFA	giant foxtail	*Setaria faberii*
15	SOLPT	Eastern black nightshade	*Solanum ptycanthum*
16	TAROF	dandelion	*Taraxacum officinale Weber*
17	TRFRE	white clover	*Trifolium repens L.*

Crop 1: MABSD APPLE | Variety: GOLDEN DELICIOUS/ B9
Planting Date: 05/15/02 | Planting Method: BARE ROOT TRANSPLANT
Rate: 388 TREES/ACRE Depth:18 IN | Perennial Age: 3 YEARS
Row Spacing: 2.5 x 4.5M | Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 5 FT | Plot Length, Unit: 8 FT
Site Type: LEVEL FIELD | Reps: 4
Tillage Type: CONVENTIONAL | Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 15	% OM: 3.0	Texture: SILT LOAM
% Silt: 67	pH: 5.11	Soil Name: WOOSTER SILT LOAM
% Clay: 15	CEC: 12.0	Fert. Level: MODERATE

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APPLE- WEED CONTROL AND CROP TOLERANCE USING SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

APPLICATION DESCRIPTION

	A	B
Application Date:	5/2/2006	7/6/2006
Time of Day:	9-10 AM	8-9 AM
Application Method:	SPRAY	SPRAY
Application Timing:	POST A	POST B
Applic. Placement:	DIRECTED	DIRECTED
Air Temp., Unit:	58.1F	63.6 F
% Relative Humidity:	55.8	82.4
Wind Velocity, Unit:	1.5 MPH	2 MPH
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	100	80

CROP STAGE AT EACH APPLICATION

	A		B	
Crop 1 Code, Stage:	MABSD	POST A	MABSD	POST B
Stage Scale:	50% BLOOM		POST BLOOM	
Height, Unit:	7 FT		7 FT	

WEED STAGE AT EACH APPLICATION

	A		B	
Weed 1 Code, Stage:	AGRASS	POST A	AGRASS	POST B
Stage Scale:	1-4 IN		12-18 IN	
Density, Unit:	LOW	PLOT	LOW	PLOT
Weed 2 Code, Stage:	CERVU	POST A	CERVU	POST B
Stage Scale:	9 IN DIAM		5-10 IN DIA	
Density, Unit:	MEDIUM	PLOT	MEDIUM	PLOT
Weed 3 Code, Stage:	CAPBP	POST A	CAPBP	POST B
Stage Scale:	1 IN		.	
Density, Unit:	LOW	PLOT	. .	
Weed 4 Code, Stage:	CHEAL	POST A	CHEAL	POST B
Stage Scale:	1 IN		.	
Density, Unit:	LOW	PLOT	. .	
Weed 5 Code, Stage:	CIRAR	POST A	CIRAR	POST B
Stage Scale:	.5 IN		.	
Density, Unit:	LOW	PLOT	. .	
Weed 6 Code, Stage:	DIGSA	POST A	DIGSA	POST B
Stage Scale:	.		3-12 IN	
Density, Unit:	. .		MEDIUM	PLOT
Weed 7 Code, Stage:	OXAST	POST A	OXAST	POST B
Stage Scale:	.		4 IN DIA	
Density, Unit:	. .		LOW	PLOT
Weed 8 Code, Stage:	PANDI	POST A	PANDI	POST B
Stage Scale:	.		.	
Density, Unit:	. .		. .	
Weed 9 Code, Stage:	PLAMA	POST A	PLAMA	POST B
Stage Scale:	.		6-12 IN	
Density, Unit:	. .		MEDIUM	PLOT
Weed10 Code, Stage:	POAAN	POST A	POAAN	POST B
Stage Scale:	.		.	
Density, Unit:	. .		. .	
Weed11 Code, Stage:	POLAV	POST A	POLAV	POST B
Stage Scale:	.		.	
Density, Unit:	. .		. .	

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APPLE- WEED CONTROL AND CROP TOLERANCE USING SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

Weed12 Code, Stage:	POROL	POST A	POROL	POST B
Stage Scale:	.		.	
Density, Unit:	. .		. .	
Weed13 Code, Stage:	SENVU	POST A	SENVU	POST B
Stage Scale:	.		.	
Density, Unit:	. .		. .	
Weed14 Code, Stage:	SETFA	POST A	SETFA	POST B
Stage Scale:	.		.	
Density, Unit:	. .		. .	
Weed15 Code, Stage:	SOLPT	POST A	SOLPT	POST B
Stage Scale:	.		.	
Density, Unit:	. .		. .	
Weed16 Code, Stage:	TAROF	POST A	TAROF	POST B
Stage Scale:	.		.	
Density, Unit:	. .		. .	
Weed17 Code, Stage:	TRFRE	POST A	TRFRE	POST B
Stage Scale:	.		.	
Density, Unit:	. .		. .	

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	35	35
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8003EVS	8003EVS
Nozzles/Row:	1	1
Band Width, Unit:	30 1N	30 IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	2 MPH	2 MPH
Spray Volume, Unit:	25 GPA	25 GPA

Trial Comments

Evaluation parameters taken this year included:
1. trunk diameter taken 12" from soil surface
2. foilage symptoms throughout the growing season
3. selection of 3 scaffold branches; circumference of each branch at base
4. bloom cluster counts, and fruit yield per branch
5. measurement of this years' growth at the most terminal shoot of selected scaffold branch, (from last years' leaf scar to shoot tip)

In the Trt-Eval Interval, " DAT" refers to days after treatment, and " WAT" refers to weeks after treatment.
This is the second year for the trial.

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APPLE- WEED CONTROL AND CROP TOLERANCE
USING SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code									
Crop Code					MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated					TRUNK	LIMB 1	LIMB 1	LIMB 2	LIMB 2
Rating Data Type					DIAM	CIRCUM	BLOOM	CIRCUM	BLOOM
Rating Unit					CM	CM	CLUSTER #	CM	CLUSTER #
Rating Date					5/13/2006	5/13/2006	5/1/2006	5/13/2006	5/1/2006
Trt-Eval Interval					6 DAT	6 DAT	6 DAT	6 DAT	6 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3	4	5
UNTREATED CONTROL					19.5	9.6	68	8.9	47
SANDEA+	1	OZ/A	POST A	B	18.4	8.4	52	10.1	64
NIS	0.25	QT/A	POST A	B					
GRAMAXONE	2	PT/A	POST A	B					
SANDEA+	1	OZ/A	POST B	C					
NIS	0.25	QT/A	POST B	C					
GRAMAXONE	2	PT/A	POST B	C					
SANDEA+	2	OZ/A	POST A	B	18.9	7.8	40	8.6	41
NIS	0.25	QT/A	POST A	B					
GRAMAXONE	2	PT/A	POST A	B					
SANDEA+	2	OZ/A	POST B	C					
NIS	0.25	QT/A	POST B	C					
GRAMAXONE	2	PT/A	POST B	C					
SANDEA+	4	OZ/A	POST A	B	19.6	9.6	92	9.5	62
NIS	0.25	QT/A	POST A	B					
GRAMAXONE	2	PT/A	POST A	B					
SANDEA+	4	OZ/A	POST B	C					
NIS	0.25	QT/A	POST B	C					
GRAMAXONE	2	PT/A	POST B	C					
SINBAR	0.5	LB/A	POST A	B	20.6	8.6	71	7.8	52
GRAMAXONE	2	PT/A	POST A	B					
SINBAR	0.5	LB/A	POST B	C					
GRAMAXONE	2	PT/A	POST B	C					
LSD (P=.05)					3	3	70	2	27
Standard Deviation					1.69	2.18	45.6	1.37	17.5
CV					8.71	24.72	70.71	15.28	33.09

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USING SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2006
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Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								AGRASS	SOLPT
Crop Code					MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated					LIMB 3	LIMB 3	LEAF	WEED	WEED
Rating Data Type					CIRCUM	BLOOM	INJURY	CONTROL	CONTROL
Rating Unit					CM	CLUSTER #	%	%	%
Rating Date					5/13/2006	5/1/2006	6/2/2006	6/2/2006	6/2/2006
Trt-Eval Interval					6 DAT	6 DAT	4 WAT	4 WAT	4 WAT
							POST A	POST A	POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	6	7	8	9	10
UNTREATED CONTROL					8.9	56	0	0	0
SANDEA+	1	OZ/A	POST A	B	10.5	54	0	79	58
NIS	0.25	QT/A	POST A	B					
GRAMAXONE	2	PT/A	POST A	B					
SANDEA+	1	OZ/A	POST B	C					
NIS	0.25	QT/A	POST B	C					
GRAMAXONE	2	PT/A	POST B	C					
SANDEA+	2	OZ/A	POST A	B	9	46	0	81	76
NIS	0.25	QT/A	POST A	B					
GRAMAXONE	2	PT/A	POST A	B					
SANDEA+	2	OZ/A	POST B	C					
NIS	0.25	QT/A	POST B	C					
GRAMAXONE	2	PT/A	POST B	C					
SANDEA+	4	OZ/A	POST A	B	8.9	73	0	86	91
NIS	0.25	QT/A	POST A	B					
GRAMAXONE	2	PT/A	POST A	B					
SANDEA+	4	OZ/A	POST B	C					
NIS	0.25	QT/A	POST B	C					
GRAMAXONE	2	PT/A	POST B	C					
SINBAR	0.5	LB/A	POST A	B	8.5	51	0	98	99
GRAMAXONE	2	PT/A	POST A	B					
SINBAR	0.5	LB/A	POST B	C					
GRAMAXONE	2	PT/A	POST B	C					
LSD (P=.05)					2	47	0	21	18
Standard Deviation					1.44	30	0	13.5	11.9
CV					15.72	53.81	0	19.64	18.4

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Investigator: Doug Doohan

Weed Code					POLAV	TRFRE	TAROF	SENVU
Crop Code					MABSD	MABSD	MABSD	MABSD
Part Rated					WEED	WEED	WEED	WEED
Rating Data Type					CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit					%	%	%	%
Rating Date					6/2/2006	6/2/2006	6/2/2006	6/2/2006
Trt-Eval Interval					4 WAT	4 WAT	4 WAT	4 WAT
					POST A	POST A	POST A	POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	11	12	13	14
UNTREATED CONTROL					0	0	0	0
SANDEA+	1	OZ/A	POST A	B	99	76	83	99
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	1	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SANDEA+	2	OZ/A	POST A	B	72	82	84	99
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	2	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SANDEA+	4	OZ/A	POST A	B	99	89	85	99
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	4	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SINBAR	0.5	LB/A	POST A	B	99	99	53	99
GRAMAXONE	2	PT/A	POST A	B				
SINBAR	0.5	LB/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
LSD (P=.05)					22	18	17	0
Standard Deviation					14.1	11.6	10.7	0
CV					19.05	16.76	17.65	0

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APPLE- WEED CONTROL AND CROP TOLERANCE
USING SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2006
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Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					CHEAL	PLAMA	CAPBP	POLPY
Crop Code					MABSD	MABSD	MABSD	MABSD
Part Rated					WEED	WEED	WEED	WEED
Rating Data Type					CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit					%	%	%	%
Rating Date					6/2/2006	6/2/2006	6/2/2006	6/2/2006
Trt-Eval Interval					4 WAT	4 WAT	4 WAT	4 WAT
					POST A	POST A	POST A	POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	15	16	17	18
UNTREATED CONTROL					0	0	0	0
SANDEA+	1	OZ/A	POST A	B	99	96	80	99
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	1	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SANDEA+	2	OZ/A	POST A	B	99	95	97	99
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	2	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SANDEA+	4	OZ/A	POST A	B	99	95	99	99
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	4	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SINBAR	0.5	LB/A	POST A	B	99	99	99	99
GRAMAXONE	2	PT/A	POST A	B				
SINBAR	0.5	LB/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
LSD (P=.05)					0	6	13	0
Standard Deviation					0	3.7	8.4	0
CV					0	4.83	11.26	0

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APPLE- WEED CONTROL AND CROP TOLERANCE
USING SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					CIRAR		AGRASS	POANN
Crop Code					MABSD	MABSD	MABSD	MABSD
Part Rated					WEED	LEAF	WEED	WEED
Rating Data Type					CONTROL	INJURY	CONTROL	CONTROL
Rating Unit					%	%	%	%
Rating Date					6/2/2006	7/5/2006	7/5/2006	7/5/2006
Trt-Eval Interval					4 WAT	8 WAT	8 WAT	8 WAT
					POST A	POST A	POST A	POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	19	20	21	22
UNTREATED CONTROL					0	0	0	0
SANDEA+	1	OZ/A	POST A	B	96	0	54	97
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	1	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SANDEA+	2	OZ/A	POST A	B	74	0	78	99
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	2	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SANDEA+	4	OZ/A	POST A	B	99	0	66	99
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	4	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SINBAR	0.5	LB/A	POST A	B	99	0	78	99
GRAMAXONE	2	PT/A	POST A	B				
SINBAR	0.5	LB/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
LSD (P=.05)					35	0	26	3
Standard Deviation					22.6	0	16.6	2
CV					30.75	0	30.09	2.56

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USING SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					SOLPT	POLAV	TRFRE	TAROF
Crop Code					MABSD	MABSD	MABSD	MABSD
Part Rated					WEED	WEED	WEED	WEED
Rating Data Type					CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit					%	%	%	%
Rating Date					7/5/2006	7/5/2006	7/5/2006	7/5/2006
Trt-Eval Interval					8 WAT	8 WAT	8 WAT	8 WAT
					POST A	POST A	POST A	POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	23	24	25	26
UNTREATED CONTROL					0	0	0	0
SANDEA+	1	OZ/A	POST A	B	69	90	79	97
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	1	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SANDEA+	2	OZ/A	POST A	B	23	67	85	99
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	2	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SANDEA+	4	OZ/A	POST A	B	50	94	69	96
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	4	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SINBAR	0.5	LB/A	POST A	B	91	88	98	38
GRAMAXONE	2	PT/A	POST A	B				
SINBAR	0.5	LB/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
LSD (P=.05)					19	39	19	27
Standard Deviation					12.6	25.1	12.3	17.4
CV					27.1	37.03	18.63	26.42

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USING SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					SENVU	CHEAL	PLAMA	CAPBP
Crop Code					MABSD	MABSD	MABSD	MABSD
Part Rated					WEED	WEED	WEED	WEED
Rating Data Type					CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit					%	%	%	%
Rating Date					7/5/2006	7/5/2006	7/5/2006	7/5/2006
Trt-Eval Interval					8 WAT	8 WAT	8 WAT	8 WAT
					POST A	POST A	POST A	POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	27	28	29	30
UNTREATED CONTROL					0	0	0	0
SANDEA+	1	OZ/A	POST A	B	99	99	91	97
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	1	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SANDEA+	2	OZ/A	POST A	B	99	99	98	99
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	2	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SANDEA+	4	OZ/A	POST A	B	99	99	99	99
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	4	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SINBAR	0.5	LB/A	POST A	B	97	99	99	99
GRAMAXONE	2	PT/A	POST A	B				
SINBAR	0.5	LB/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
LSD (P=.05)					2	0	10	3
Standard Deviation					1	0	6.4	2
CV					1.31	0	8.21	2.56

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Trial ID: APPSANDEAGDW 2006
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Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					POLPY	CIRAR		
Crop Code					MABSD	MABSD	MABSD	MABSD
Part Rated					WEED	WEED	LIMB 1	LIMB 2
Rating Data Type					CONTROL	CONTROL	COUNT	COUNT
Rating Unit					%	%	FRUIT #	FRUIT #
Rating Date					7/5/2006	7/5/2006	7/21/2006	7/21/2006
Trt-Eval Interval					8 WAT	8 WAT	2 WAT	2 WAT
					POST A	POST A	POST B	POST B
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	31	32	33	34
UNTREATED CONTROL					0	0	42	24
SANDEA+	1	OZ/A	POST A	B	99	93	30	46
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	1	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SANDEA+	2	OZ/A	POST A	B	99	99	20	25
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	2	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SANDEA+	4	OZ/A	POST A	B	99	99	31	43
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	4	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SINBAR	0.5	LB/A	POST A	B	99	96	30	23
GRAMAXONE	2	PT/A	POST A	B				
SINBAR	0.5	LB/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
LSD (P=.05)					0	9	24	25
Standard Deviation					0	5.6	15.5	15.9
CV					0	7.3	50.96	49.43

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Investigator: Doug Doohan

Weed Code							DIGSA	POANN
Crop Code					MABSD	MABSD	MABSD	MABSD
Part Rated					LIMB 3	LEAF	WEED	WEED
Rating Data Type					COUNT	INJURY	CONTROL	CONTROL
Rating Unit					FRUIT #	%	%	%
Rating Date					7/21/2006	8/8/2006	8/8/2006	8/8/2006
Trt-Eval Interval					2 WAT	4 WAT	4 WAT	4 WAT
					POST B	POST B	POST B	POST B
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	35	36	37	38
UNTREATED CONTROL					31	0	0	0
SANDEA+	1	OZ/A	POST A	B	37	0	0	99
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	1	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SANDEA+	2	OZ/A	POST A	B	37	0	80	99
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	2	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SANDEA+	4	OZ/A	POST A	B	33	0	88	99
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	4	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SINBAR	0.5	LB/A	POST A	B	29	0	97	99
GRAMAXONE	2	PT/A	POST A	B				
SINBAR	0.5	LB/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
LSD (P=.05)					26	0	4	0
Standard Deviation					16.5	0	2.6	0
CV					49.6	0	4.97	0

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Trial ID: APPSANDEAGDW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					SOLPT	POLAV	TRFRE	TAROF
Crop Code					MABSD	MABSD	MABSD	MABSD
Part Rated					WEED	WEED	WEED	WEED
Rating Data Type					CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit					%	%	%	%
Rating Date					8/8/2006	8/8/2006	8/8/2006	8/8/2006
Trt-Eval Interval					4 WAT	4 WAT	4 WAT	4 WAT
					POST B	POST B	POST B	POST B
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	39	40	41	42
UNTREATED CONTROL					0	0	0	0
SANDEA+	1	OZ/A	POST A	B	0	99	0	0
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	1	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SANDEA+	2	OZ/A	POST A	B	0	99	81	99
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	2	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SANDEA+	4	OZ/A	POST A	B	0	99	88	99
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	4	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SINBAR	0.5	LB/A	POST A	B	98	99	99	75
GRAMAXONE	2	PT/A	POST A	B				
SINBAR	0.5	LB/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
LSD (P=.05)					1	0	3	3
Standard Deviation					0.9	0	2.2	1.8
CV					4.56	0	4.18	3.34

The Ohio State University

APPLE- WEED CONTROL AND CROP TOLERANCE
USING SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					SENVU	CHEAL	PLAMA	CAPBP
Crop Code					MABSD	MABSD	MABSD	MABSD
Part Rated					WEED	WEED	WEED	WEED
Rating Data Type					CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit					%	%	%	%
Rating Date					8/8/2006	8/8/2006	8/8/2006	8/8/2006
Trt-Eval Interval					4 WAT	4 WAT	4 WAT	4 WAT
					POST B	POST B	POST B	POST B
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	43	44	45	46
UNTREATED CONTROL					0	0	0	0
SANDEA+	1	OZ/A	POST A	B	99	99	99	99
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	1	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SANDEA+	2	OZ/A	POST A	B	99	99	99	99
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	2	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SANDEA+	4	OZ/A	POST A	B	99	99	99	99
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	4	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SINBAR	0.5	LB/A	POST A	B	99	99	99	99
GRAMAXONE	2	PT/A	POST A	B				
SINBAR	0.5	LB/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
LSD (P=.05)					0	0	0	0
Standard Deviation					0	0	0	0
CV					0	0	0	0

The Ohio State University

APPLE- WEED CONTROL AND CROP TOLERANCE
USING SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					POLPY	CIRAR		DIGSA
Crop Code					MABSD	MABSD	MABSD	MABSD
Part Rated					WEED	WEED	LEAF	WEED
Rating Data Type					CONTROL	CONTROL	INJURY	CONTROL
Rating Unit					%	%	%	%
Rating Date					8/8/2006	8/8/2006	9/8/2006	9/8/2006
Trt-Eval Interval					4 WAT	4 WAT	8 WAT	8 WAT
					POST B	POST B	POST B	POST B
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	47	48	49	50
UNTREATED CONTROL					0	0	0	0
SANDEA+	1	OZ/A	POST A	B	99	99	0	0
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	1	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SANDEA+	2	OZ/A	POST A	B	99	99	0	80
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	2	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SANDEA+	4	OZ/A	POST A	B	99	99	0	88
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	4	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SINBAR	0.5	LB/A	POST A	B	99	99	0	97
GRAMAXONE	2	PT/A	POST A	B				
SINBAR	0.5	LB/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
LSD (P=.05)					0	0	0	4
Standard Deviation					0	0	0	2.6
CV					0	0	0	4.97

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APPLE- WEED CONTROL AND CROP TOLERANCE
USING SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					POANN	SOLPT	POLAV	TRFRE	TAROF
Crop Code					MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated					WEED	WEED	WEED	WEED	WEED
Rating Data Type					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit					%	%	%	%	%
Rating Date					9/8/2006	9/8/2006	9/8/2006	9/8/2006	9/8/2006
Trt-Eval Interval					8 WAT	8 WAT	8 WAT	8 WAT	8 WAT
					POST B	POST B	POST B	POST B	POST B
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	51	52	53	54	55
UNTREATED CONTROL					0	0	0	0	0
SANDEA+	1	OZ/A	POST A	B	99	0	99	23	50
NIS	0.25	QT/A	POST A	B					
GRAMAXONE	2	PT/A	POST A	B					
SANDEA+	1	OZ/A	POST B	C					
NIS	0.25	QT/A	POST B	C					
GRAMAXONE	2	PT/A	POST B	C					
SANDEA+	2	OZ/A	POST A	B	99	0	99	72	99
NIS	0.25	QT/A	POST A	B					
GRAMAXONE	2	PT/A	POST A	B					
SANDEA+	2	OZ/A	POST B	C					
NIS	0.25	QT/A	POST B	C					
GRAMAXONE	2	PT/A	POST B	C					
SANDEA+	4	OZ/A	POST A	B	99	0	99	99	99
NIS	0.25	QT/A	POST A	B					
GRAMAXONE	2	PT/A	POST A	B					
SANDEA+	4	OZ/A	POST B	C					
NIS	0.25	QT/A	POST B	C					
GRAMAXONE	2	PT/A	POST B	C					
SINBAR	0.5	LB/A	POST A	B	99	96	99	99	25
GRAMAXONE	2	PT/A	POST A	B					
SINBAR	0.5	LB/A	POST B	C					
GRAMAXONE	2	PT/A	POST B	C					
LSD (P=.05)					0	5	0	43	56
Standard Deviation					0	3.1	0	28.1	36.1
CV					0	16.39	0	48	66.39

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APPLE- WEED CONTROL AND CROP TOLERANCE
USING SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					PANDI	SENVU	CHEAL	PLAMA	CAPBP
Crop Code					MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated					WEED	WEED	WEED	WEED	WEED
Rating Data Type					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit					%	%	%	%	%
Rating Date					9/8/2006	9/8/2006	9/8/2006	9/8/2006	9/8/2006
Trt-Eval Interval					8 WAT	8 WAT	8 WAT	8 WAT	8 WAT
					POST B	POST B	POST B	POST B	POST B
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	56	57	58	59	60
UNTREATED CONTROL					0	0	0	0	0
SANDEA+	1	OZ/A	POST A	B	45	99	99	99	99
NIS	0.25	QT/A	POST A	B					
GRAMAXONE	2	PT/A	POST A	B					
SANDEA+	1	OZ/A	POST B	C					
NIS	0.25	QT/A	POST B	C					
GRAMAXONE	2	PT/A	POST B	C					
SANDEA+	2	OZ/A	POST A	B	84	99	99	99	99
NIS	0.25	QT/A	POST A	B					
GRAMAXONE	2	PT/A	POST A	B					
SANDEA+	2	OZ/A	POST B	C					
NIS	0.25	QT/A	POST B	C					
GRAMAXONE	2	PT/A	POST B	C					
SANDEA+	4	OZ/A	POST A	B	98	99	99	99	99
NIS	0.25	QT/A	POST A	B					
GRAMAXONE	2	PT/A	POST A	B					
SANDEA+	4	OZ/A	POST B	C					
NIS	0.25	QT/A	POST B	C					
GRAMAXONE	2	PT/A	POST B	C					
SINBAR	0.5	LB/A	POST A	B	86	99	99	99	99
GRAMAXONE	2	PT/A	POST A	B					
SINBAR	0.5	LB/A	POST B	C					
GRAMAXONE	2	PT/A	POST B	C					
LSD (P=.05)					37	0	0	0	0
Standard Deviation					24.1	0	0	0	0
CV					38.65	0	0	0	0

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APPLE- WEED CONTROL AND CROP TOLERANCE
USING SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					POLPY	CIRAR			
Crop Code					MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated					WEED	WEED	LIMB 1	LIMB 1	LIMB 2
Rating Data Type					CONTROL	CONTROL	YLD	YLD	YLD
Rating Unit					%	%	# FRUIT	WT/LBS	# FRUIT
Rating Date					9/8/2006	9/8/2006	10/4/2006	10/4/2006	10/4/2006
Trt-Eval Interval					8 WAT	8 WAT	HARVEST	HARVEST	HARVEST
					POST B	POST B			
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	61	62	63	64	65
UNTREATED CONTROL					0	0	38	12.1	21
SANDEA+	1	OZ/A	POST A	B	99	99	34	9.9	42
NIS	0.25	QT/A	POST A	B					
GRAMAXONE	2	PT/A	POST A	B					
SANDEA+	1	OZ/A	POST B	C					
NIS	0.25	QT/A	POST B	C					
GRAMAXONE	2	PT/A	POST B	C					
SANDEA+	2	OZ/A	POST A	B	99	99	18	6.5	27
NIS	0.25	QT/A	POST A	B					
GRAMAXONE	2	PT/A	POST A	B					
SANDEA+	2	OZ/A	POST B	C					
NIS	0.25	QT/A	POST B	C					
GRAMAXONE	2	PT/A	POST B	C					
SANDEA+	4	OZ/A	POST A	B	99	99	35	12.6	42
NIS	0.25	QT/A	POST A	B					
GRAMAXONE	2	PT/A	POST A	B					
SANDEA+	4	OZ/A	POST B	C					
NIS	0.25	QT/A	POST B	C					
GRAMAXONE	2	PT/A	POST B	C					
SINBAR	0.5	LB/A	POST A	B	99	99	27	9.9	20
GRAMAXONE	2	PT/A	POST A	B					
SINBAR	0.5	LB/A	POST B	C					
GRAMAXONE	2	PT/A	POST B	C					
LSD (P=.05)					0	0	21	7	22
Standard Deviation					0	0	13.8	4.7	14.2
CV					0	0	45.31	46.09	47.23

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APPLE- WEED CONTROL AND CROP TOLERANCE
USING SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code					MABSD	MABSD	MABSD	MABSD
Part Rated					LIMB 2	LIMB 3	LIMB 3	FRUIT
Rating Data Type					YLD	YLD	YLD	TTL YLD
Rating Unit					WT/LBS	# FRUIT	WT/LBS	WT/LBS
Rating Date					10/4/2006	10/4/2006	10/4/2006	10/4/2006
Trt-Eval Interval					HARVEST	HARVEST	HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	66	67	68	69
UNTREATED CONTROL					8.4	27	8.9	97.2
SANDEA+	1	OZ/A	POST A	B	13.9	37	11.1	116.2
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	1	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SANDEA+	2	OZ/A	POST A	B	9.8	31	11	91.6
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	2	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SANDEA+	4	OZ/A	POST A	B	13.8	33	10.6	104.6
NIS	0.25	QT/A	POST A	B				
GRAMAXONE	2	PT/A	POST A	B				
SANDEA+	4	OZ/A	POST B	C				
NIS	0.25	QT/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
SINBAR	0.5	LB/A	POST A	B	6.9	27	9.7	105.9
GRAMAXONE	2	PT/A	POST A	B				
SINBAR	0.5	LB/A	POST B	C				
GRAMAXONE	2	PT/A	POST B	C				
LSD (P=.05)					7	21	5	29
Standard Deviation					4.62	13.6	3.4	18.44
CV					43.66	43.98	33.16	17.89

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APPLE- WEED CONTROL AND CROP TOLERANCE
USING SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code							
Crop Code							
Part Rated					LIMB 1	LIMB2	LIMB3
Rating Data Type					SHOOT GROWTH	SHOOT GROWTH	SHOOT GROWTH
Rating Unit					CM	CM	CM
Rating Date					11/1/2006	11/1/2006	11/1/2006
Trt-Eval Interval					POST HARVEST	POST HARVEST	POST HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	70	71	72
UNTREATED CONTROL					28	33.1	27.7
SANDEA+	1	OZ/A	POST A	B	24.4	28.5	27.3
NIS	0.25	QT/A	POST A	B			
GRAMAXONE	2	PT/A	POST A	B			
SANDEA+	1	OZ/A	POST B	C			
NIS	0.25	QT/A	POST B	C			
GRAMAXONE	2	PT/A	POST B	C			
SANDEA+	2	OZ/A	POST A	B	26.5	26	24.2
NIS	0.25	QT/A	POST A	B			
GRAMAXONE	2	PT/A	POST A	B			
SANDEA+	2	OZ/A	POST B	C			
NIS	0.25	QT/A	POST B	C			
GRAMAXONE	2	PT/A	POST B	C			
SANDEA+	4	OZ/A	POST A	B	35.5	29.8	29
NIS	0.25	QT/A	POST A	B			
GRAMAXONE	2	PT/A	POST A	B			
SANDEA+	4	OZ/A	POST B	C			
NIS	0.25	QT/A	POST B	C			
GRAMAXONE	2	PT/A	POST B	C			
SINBAR	0.5	LB/A	POST A	B	36.4	30.1	33.5
GRAMAXONE	2	PT/A	POST A	B			
SINBAR	0.5	LB/A	POST B	C			
GRAMAXONE	2	PT/A	POST B	C			
LSD (P=.05)					13	12	12
Standard Deviation					8.28	7.72	7.66
CV					27.47	26.16	27.04

The Ohio State University

CABBAGE - CHATEAU PRE-TRANSPLANT RATES ON CABBAGE

Trial ID: CABBCHATEAW 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

TRIAL LOCATION

City: Wooster	Trial Status: Final
State/Prov.: Ohio	Trial Reliability: Reliable
Postal Code: 44691	Initiation Date: 07/20/06
Country: USA	Planned Completion Date: 10/30/06

Objective: To evaluate Chateau applied prior to transplanting cabbage for crop tolerance and weed control.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	AGRASS	annual grasses (various)	*Setaria spp.and Digitaria spp.*
2	CAPBP	shepherd's purse	*Capsella bursa-pastoris (L.) Medicus*
3	PLAMA	broadleaf plantain	*Plantago major L.*
4	POLPY	Pennsylvania smartweed	*Polygonum pensylvanicum L.*
5	POROL	common purslane	*Portulaca oleracea L.*
6	SOLPT	Eastern black nightshade	*Solanum ptycanthum Dun.*
7	TRFRE	white clover	*Trifolium repens L.*

Crop 1: BRSOL	Variety: MEGATON	PROCESSING CABBAGE
Planting Date: 07/27/06		Planting Method: HAND-PLANTED
Rate: 1 PLANT PER 12 IN		Depth: 2 IN
Row Spacing: 4 FT		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: 15	% OM: 3.0	Texture: SILT LOAM
% Silt: 67	pH: 5.11	Soil Name: WOOSTER SILT LOAM
% Clay: 15	CEC: 12.0	Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A	B	C
Application Date:	7/20/2006	7/24/2006	7/26/2006
Time of Day:	4-5 PM	5-6 PM	9-10 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	7 DAY PRETP	3 DAY PRETP	1 DAY PRETP
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	79.4 F	82.8 F	74.3 F
% Relative Humidity:	76.1	49.6	76.1
Wind Velocity, Unit:	3 MPH	2 MPH	3 MPH
% Cloud Cover:	50	30	0

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	BRSOL 7DPRETP	BRSOL 3DPRETP	BRSOL 1DPRETP
Stage Scale:	.	.	.
Height, Unit:	0. .	0. .	0. .

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CABBAGE - CHATEAU PRE-TRANSPLANT RATES ON CABBAGE

Trial ID: CABBCHATEAW 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	AGRAS 7DPRETP	AGRAS 3DPTP	AGRAS 1DPTP
Stage Scale:	.	.	.
Density, Unit:	. .	. .	. .
Weed 2 Code, Stage:	CAPBP 7DPRETP	CAPBP 3DPTP	CAPBP 1DPTP
Stage Scale:	.	.	.
Density, Unit:	. .	. .	. .
Weed 3 Code, Stage:	PLAMA 7DPRETP	PLAMA 3DPTP	PLAMA 1DPTP
Stage Scale:	.	.	.
Density, Unit:	. .	. .	. .
Weed 4 Code, Stage:	POLPY 7DPRETP	POLPY 3DPTP	POLPY 1DPTP
Stage Scale:	.	.	.
Density, Unit:	. .	. .	. .
Weed 5 Code, Stage:	POROL 7DPRETP	POROL 3DPTP	POROL 1DPTP
Stage Scale:	.	.	.
Density, Unit:	. .	. .	. .
Weed 6 Code, Stage:	SOLPT 7DPRETP	SOLPT 3DPTP	SOLPT 1DPTP
Stage Scale:	.	.	.
Density, Unit:	. .	. .	. .
Weed 7 Code, Stage:	TRFRE 7DPRETP	TRFRE 3DPTP	TRFRE 1DPTP
Stage Scale:	.	.	.
Density, Unit:	. .	. .	. .

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:	19 IN	19 IN	19 IN
Nozzles/Row:	4	4	4
Band Width, Unit:	76 IN	76 IN	76 IN
Boom Height, Unit:	18 IN	18 IN	18 IN
Ground Speed, Unit:	2.5 MPH	2.5 MPH	2.5 MPH
Spray Volume, Unit:	25 GPA	25 GPA	25 GPA

Trial Comments

All sprays were applied before transplanting to recently rototilled soil. The cabbage was hand -planted due to wet field conditions. Yield was based on six plants per plot.

In the Spray Timing Column, the 1, 3, and 7 in parentheses refer to DAYS PRETRANSPLANT that sprays were applied.

The Ohio State University

CABBAGE - CHATEAU PRE-TRANSPLANT RATES ON CABBAGE

Trial ID: CABBCHATEAW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								AGRASS
Crop Code				BRSOL	BRSOL	BRSOL	BRSOL	BRSOL
Part Rated				PLANT	PLANT	PLANT	PLANT	WEED
Rating Data Type				STUNT	STUNT	STUNT	STUNT	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/3/2006	8/7/2006	8/9/2006	8/17/2006	8/17/2006
Trt-Eval Interval				14 DAT	14 DAT	14 DAT	28 DAT	28 DAT
Spray Timing				7 DAY PTP	3 DAY PTP	1 DAY PTP	7 DAY PTP	7 DAY PTP
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
UNTREATED CONTROL				0	0	0	0	0
WEED FREE CONTROL				0	0	0	0	99
CHATEAU	1	OZ/A	7 DAY PTP	0			3	92
CHATEAU	1	OZ/A	3 DAY PTP		16			
CHATEAU	1	OZ/A	1 DAY PTP			14		
CHATEAU	2	OZ/A	7 DAY PTP	0			3	92
CHATEAU	2	OZ/A	3 DAY PTP		30			
CHATEAU	2	OZ/A	1 DAY PTP			16		
DUAL MAGNUM	1	PT/A	7 DAY PTP	0			3	97
LSD (P=.05)				0	8	15	6	5
Standard Deviation				0	4.7	9.2	4.2	3.1
CV				0	40.63	122.73	278.89	4.07

The Ohio State University

CABBAGE - CHATEAU PRE-TRANSPLANT RATES ON CABBAGE

Trial ID: CABBCHATEAW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				CAPBP	SOLPT	PLAMA	POLPY
Crop Code				BRSOL	BRSOL	BRSOL	BRSOL
Part Rated				WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%
Rating Date				8/17/2006	8/17/2006	8/17/2006	8/17/2006
Trt-Eval Interval				28 DAT	28 DAT	28 DAT	28 DAT
Spray Timing				7 DAY PTP	7 DAY PTP	7 DAY PTP	7 DAY PTP
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9
UNTREATED CONTROL				0	0	0	0
WEED FREE CONTROL				99	99	99	99
CHATEAU	1	OZ/A	7 DAY PTP	99	99	99	99
CHATEAU	1	OZ/A	3 DAY PTP				
CHATEAU	1	OZ/A	1 DAY PTP				
CHATEAU	2	OZ/A	7 DAY PTP	99	99	99	99
CHATEAU	2	OZ/A	3 DAY PTP				
CHATEAU	2	OZ/A	1 DAY PTP				
DUAL MAGNUM	1	PT/A	7 DAY PTP	99	99	99	99
LSD (P=.05)				0	0	0	0
Standard Deviation				0	0	0	0
CV				0	0	0	0

The Ohio State University

CABBAGE - CHATEAU PRE-TRANSPLANT RATES ON CABBAGE

Trial ID: CABBCHATEAW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				TRFRE	POROL	CAPBP	AGRASS
Crop Code				BRSOL	BRSOL	BRSOL	BRSOL
Part Rated				WEED	WEED	PLANT	WEED
Rating Data Type				CONTROL	CONTROL	STUNT	CONTROL
Rating Unit				%	%	%	%
Rating Date				8/17/2006	8/17/2006	8/21/2006	8/21/2006
Trt-Eval Interval				28 DAT	28 DAT	28 DAT	28 DAT
Spray Timing				7 DAY PTP	7 DAY PTP	3 DAY PTP	3 DAY PTP
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	10	11	12	13
UNTREATED CONTROL				0	0	0	0
WEED FREE CONTROL				99	99	0	99
CHATEAU	1	OZ/A	7 DAY PTP	99	99		
CHATEAU	1	OZ/A	3 DAY PTP			25	75
CHATEAU	1	OZ/A	1 DAY PTP				
CHATEAU	2	OZ/A	7 DAY PTP	99	99		
CHATEAU	2	OZ/A	3 DAY PTP			38	92
CHATEAU	2	OZ/A	1 DAY PTP				
DUAL MAGNUM	1	PT/A	7 DAY PTP	99	99		
LSD (P=.05)				0	0	15	20
Standard Deviation				0	0	9.1	12.2
CV				0	0	58.18	18.31

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CABBAGE - CHATEAU PRE-TRANSPLANT RATES ON CABBAGE

Trial ID: CABBCHATEAW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					SOLPT	PLAMA	POLPY
Crop Code				BRSOL	BRSOL	BRSOL	BRSOL
Part Rated				WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%
Rating Date				8/21/2006	8/21/2006	8/21/2006	8/21/2006
Trt-Eval Interval				28 DAT	28 DAT	28 DAT	28 DAT
Spray Timing				3 DAY PTP	3 DAY PTP	3 DAY PTP	3 DAY PTP
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	14	15	16	17
UNTREATED CONTROL				0	0	0	0
WEED FREE CONTROL				99	99	99	99
CHATEAU	1	OZ/A	7 DAY PTP				
CHATEAU	1	OZ/A	3 DAY PTP	99	99	89	99
CHATEAU	1	OZ/A	1 DAY PTP				
CHATEAU	2	OZ/A	7 DAY PTP				
CHATEAU	2	OZ/A	3 DAY PTP	99	99	99	99
CHATEAU	2	OZ/A	1 DAY PTP				
DUAL MAGNUM	1	PT/A	7 DAY PTP				
LSD (P=.05)				0	0	16	0
Standard Deviation				0	0	9.8	0
CV				0	0	13.58	0

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CABBAGE - CHATEAU PRE-TRANSPLANT RATES ON CABBAGE

Trial ID: CABBCHATEAW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				TRFRE	POROL		AGRASS	CAPBP
Crop Code				BRSOL	BRSOL	BRSOL	BRSOL	BRSOL
Part Rated				WEED	WEED	PLANT	WEED	WEED
Rating Data Type				CONTROL	CONTROL	STUNT	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/21/2006	8/21/2006	8/23/2006	8/23/2006	8/23/2006
Trt-Eval Interval				28 DAT	28 DAT	28 DAT	28 DAT	28 DAT
Spray Timing				3 DAY PTP	3 DAY PTP	1 DAY PTP	1 DAY PTP	1 DAY PTP
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	18	19	20	21	22
UNTREATED CONTROL				0	0	0	0	0
WEED FREE CONTROL				99	99	0	99	99
CHATEAU	1	OZ/A	7 DAY PTP					
CHATEAU	1	OZ/A	3 DAY PTP	74	77			
CHATEAU	1	OZ/A	1 DAY PTP			18	70	99
CHATEAU	2	OZ/A	7 DAY PTP					
CHATEAU	2	OZ/A	3 DAY PTP	93	93			
CHATEAU	2	OZ/A	1 DAY PTP			33	78	99
DUAL MAGNUM	1	PT/A	7 DAY PTP					
LSD (P=.05)				42	21	15	13	0
Standard Deviation				26.1	12.9	9.2	8.3	0
CV				39.22	19.13	73.64	13.45	0

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CABBAGE - CHATEAU PRE-TRANSPLANT RATES ON CABBAGE

Trial ID: CABBCHATEAW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				SOLPT	PLAMA	POLPY	TRFRE	POROL
Crop Code				BRSOL	BRSOL	BRSOL	BRSOL	BRSOL
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/23/2006	8/23/2006	8/23/2006	8/23/2006	8/23/2006
Trt-Eval Interval				28 DAT	28 DAT	28 DAT	28 DAT	28 DAT
Spray Timing				1 DAY PTP	1 DAY PTP	1 DAY PTP	1 DAY PTP	1 DAY PTP
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	23	24	25	26	27
UNTREATED CONTROL				0	0	0	0	0
WEED FREE CONTROL				99	99	99	99	99
CHATEAU	1	OZ/A	7 DAY PTP					
CHATEAU	1	OZ/A	3 DAY PTP					
CHATEAU	1	OZ/A	1 DAY PTP	99	82	99	70	91
CHATEAU	2	OZ/A	7 DAY PTP					
CHATEAU	2	OZ/A	3 DAY PTP					
CHATEAU	2	OZ/A	1 DAY PTP	99	99	99	57	92
DUAL MAGNUM	1	PT/A	7 DAY PTP					
LSD (P=.05)				0	28	0	54	15
Standard Deviation				0	17.3	0	34	9.2
CV				0	24.66	0	60.2	13.01

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CABBAGE - CHATEAU PRE-TRANSPLANT RATES ON CABBAGE

Trial ID: CABBCHATEAW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					AGRASS	CAPBP	SOLPT
Crop Code				BRSOL	BRSOL	BRSOL	BRSOL
Part Rated				PLANT	WEED	WEED	WEED
Rating Data Type				STUNT	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%
Rating Date				9/14/2006	9/14/2006	9/14/2006	9/14/2006
Trt-Eval Interval				56 DAT	56 DAT	56 DAT	56 DAT
Spray Timing				7 DAY PTP	7 DAY PTP	7 DAY PTP	7 DAY PTP
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	28	29	30	31
UNTREATED CONTROL				0	0	0	0
WEED FREE CONTROL				0	99	99	99
CHATEAU	1	OZ/A	7 DAY PTP	4	94	99	99
CHATEAU	1	OZ/A	3 DAY PTP				
CHATEAU	1	OZ/A	1 DAY PTP				
CHATEAU	2	OZ/A	7 DAY PTP	3	95	99	99
CHATEAU	2	OZ/A	3 DAY PTP				
CHATEAU	2	OZ/A	1 DAY PTP				
DUAL MAGNUM	1	PT/A	7 DAY PTP	4	98	99	99
LSD (P=.05)				9	3	0	0
Standard Deviation				5.6	2	0	0
CV				282.29	2.64	0	0

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CABBAGE - CHATEAU PRE-TRANSPLANT RATES ON CABBAGE

Trial ID: CABBCHATEAW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				PLAMA	POLPY	TRFRE	POROL	
Crop Code				BRSOL	BRSOL	BRSOL	BRSOL	BRSOL
Part Rated				WEED	WEED	WEED	WEED	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	STUNT
Rating Unit				%	%	%	%	%
Rating Date				9/14/2006	9/14/2006	9/14/2006	9/14/2006	56 DAT
Trt-Eval Interval				56 DAT	56 DAT	56 DAT	56 DAT	56 DAT
Spray Timing				7 DAY PTP	7 DAY PTP	7 DAY PTP	7 DAY PTP	3 DAY PTP
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	32	33	34	35	36
UNTREATED CONTROL				0	0	0	0	0
WEED FREE CONTROL				99	99	99	99	0
CHATEAU	1	OZ/A	7 DAY PTP	99	99	99	99	
CHATEAU	1	OZ/A	3 DAY PTP					9
CHATEAU	1	OZ/A	1 DAY PTP					
CHATEAU	2	OZ/A	7 DAY PTP	99	99	99	99	
CHATEAU	2	OZ/A	3 DAY PTP					21
CHATEAU	2	OZ/A	1 DAY PTP					
DUAL MAGNUM	1	PT/A	7 DAY PTP	99	99	99	99	
LSD (P=.05)				0	0	0	0	7
Standard Deviation				0	0	0	0	4.4
CV				0	0	0	0	58.79

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CABBAGE - CHATEAU PRE-TRANSPLANT RATES ON CABBAGE

Trial ID: CABBCHATEAW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				AGRASS	CAPBP	SOLPT	PLAMA
Crop Code				BRSOL	BRSOL	BRSOL	BRSOL
Part Rated				WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%
Rating Date				56 DAT	56 DAT	56 DAT	56 DAT
Trt-Eval Interval				56 DAT	56 DAT	56 DAT	56 DAT
Spray Timing				3 DAY PTP	3 DAY PTP	3 DAY PTP	3 DAY PTP
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	37	38	39	40
UNTREATED CONTROL				0	0	0	0
WEED FREE CONTROL				99	99	99	99
CHATEAU	1	OZ/A	7 DAY PTP				
CHATEAU	1	OZ/A	3 DAY PTP	99	99	99	99
CHATEAU	1	OZ/A	1 DAY PTP				
CHATEAU	2	OZ/A	7 DAY PTP				
CHATEAU	2	OZ/A	3 DAY PTP	99	99	99	99
CHATEAU	2	OZ/A	1 DAY PTP				
DUAL MAGNUM	1	PT/A	7 DAY PTP				
LSD (P=.05)				0	0	0	0
Standard Deviation				0	0	0	0
CV				0	0	0	0

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CABBAGE - CHATEAU PRE-TRANSPLANT RATES ON CABBAGE

Trial ID: CABBCHATEAW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				POLPY	TRFRE	POROL	
Crop Code				BRSOL	BRSOL	BRSOL	BRSOL
Part Rated				WEED	WEED	WEED	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	STUNT
Rating Unit				%	%	%	%
Rating Date				56 DAT	56 DAT	56 DAT	56 DAT
Trt-Eval Interval				56 DAT	56 DAT	56 DAT	56 DAT
Spray Timing				3 DAY PTP	3 DAY PTP	3 DAY PTP	1 DAY PTP
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	41	42	43	44
UNTREATED CONTROL				0	0	0	0
WEED FREE CONTROL				99	99	99	0
CHATEAU	1	OZ/A	7 DAY PTP				
CHATEAU	1	OZ/A	3 DAY PTP	99	99	99	
CHATEAU	1	OZ/A	1 DAY PTP				5
CHATEAU	2	OZ/A	7 DAY PTP				
CHATEAU	2	OZ/A	3 DAY PTP	99	99	99	
CHATEAU	2	OZ/A	1 DAY PTP				23
DUAL MAGNUM	1	PT/A	7 DAY PTP				
LSD (P=.05)				0	0	0	8
Standard Deviation				0	0	0	4.9
CV				0	0	0	71.71

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CABBAGE - CHATEAU PRE-TRANSPLANT RATES ON CABBAGE

Trial ID: CABBCHATEAW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				AGRASS	CAPBP	SOLPT	PLAMA
Crop Code				BRSOL	BRSOL	BRSOL	BRSOL
Part Rated				WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%
Rating Date				56 DAT	9/20/2006	9/20/2006	9/20/2006
Trt-Eval Interval				56 DAT	56 DAT	56 DAT	56 DAT
Spray Timing				1 DAY PTP	1 DAY PTP	1 DAY PTP	1 DAY PTP
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	45	46	47	48
UNTREATED CONTROL				0	0	0	0
WEED FREE CONTROL				99	99	99	99
CHATEAU	1	OZ/A	7 DAY PTP				
CHATEAU	1	OZ/A	3 DAY PTP				
CHATEAU	1	OZ/A	1 DAY PTP	96	99	99	99
CHATEAU	2	OZ/A	7 DAY PTP				
CHATEAU	2	OZ/A	3 DAY PTP				
CHATEAU	2	OZ/A	1 DAY PTP	96	99	99	99
DUAL MAGNUM	1	PT/A	7 DAY PTP				
LSD (P=.05)				6	0	0	0
Standard Deviation				3.5	0	0	0
CV				4.84	0	0	0

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CABBAGE - CHATEAU PRE-TRANSPLANT RATES ON CABBAGE

Trial ID: CABBCHATEAW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				POLPY	TRFRE	POROL		
Crop Code				BRSOL	BRSOL	BRSOL	BRSOL	BRSOL
Part Rated				WEED	WEED	WEED	HEAD	HEAD
Rating Data Type				CONTROL	CONTROL	CONTROL	MKTB #	MKTB WT
Rating Unit				%	%	%	PER PLOT	LBS PLOT
Rating Date				9/20/2006	9/20/2006	9/20/2006	10/16/2006	10/16/2006
Trt-Eval Interval				56 DAT	56 DAT	56 DAT	HARVEST	HARVEST
Spray Timing				1 DAY PTP	1 DAY PTP	1 DAY PTP		
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	49	50	51	52	53
UNTREATED CONTROL				0	0	0	3	15
WEED FREE CONTROL				99	99	99	6	28.4
CHATEAU	1	OZ/A	7 DAY PTP				6	22.8
CHATEAU	1	OZ/A	3 DAY PTP				6	24.6
CHATEAU	1	OZ/A	1 DAY PTP	99	99	99	6	25
CHATEAU	2	OZ/A	7 DAY PTP				6	26.3
CHATEAU	2	OZ/A	3 DAY PTP				6	24.3
CHATEAU	2	OZ/A	1 DAY PTP	99	99	99	6	22.8
DUAL MAGNUM	1	PT/A	7 DAY PTP				6	25.5
LSD (P=.05)				0	0	0	2	11
Standard Deviation				0	0	0	1.2	7.32
CV				0	0	0	20.38	30.71

The Ohio State University

CABBAGE - WEED CONTROL AND CROP TOLERANCE IN DIRECT-SEEDED CABBAGE

Trial ID: CABBAGEDSF 2006
Location: Fremont, Ohio

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

TRIAL LOCATION

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

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 05/05/06
Planned Completion Date: 11/30/06

Objective: To evaluate PRE herbicide combinations for crop tolerance and weed control in direct-seeded processing cabbage.

CROP AND WEED DESCRIPTION

Weed		Code	Common Name	Scientific Name
	1	ABUTH	velvetleaf	*Abutilon theophrasti Medicus*
	2	AGRASS	annual grasses (various)	*Setaria spp.and Digitaria spp.*
	3	AMAXX	pigweed spp.	*Amaranthus spp.*
	4	CHEAL	common lambsquarter	*Chenopodium album L.*
	5	POLAV	prostrate knotweed	*Polygonum aviculare L.*
	6	POLPY	Pennsylvania smartweed	*Polygonum pensylvanicum L.*
	7	POROL	common purslane	*Portulaca oleracea L.*
	8	SOLPT	Eastern black nightshade	*Solanum ptycanthum Dun.*
	9	TAROF	dandelion	*Taraxacum officinale Weber in Wiggers*

Crop 1: BRSOL PROCESSING CABBAGE Variety: BRAVO
Planting Date: 05/05/06
Planting Method: DIRECT-SEED
Rate: 4 SEEDS /FT
Depth: 0.50 IN
Row Spacing: 7 FT
Seed Bed: CONVENTIONAL
Emergence Date: 05/15/06

SITE AND DESIGN

Plot Width, Unit: 7 FT
Plot Length, Unit: 25 FT
Site Type: LEVEL FIELD
Reps: 4
Tillage Type: CONVENTIONAL
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 67.1
% OM: 2.9
Texture: FINE SANDY LOAM
% Silt: 20
pH: 5.9
Soil Name: COLWOOD
% Clay: 10
CEC: 11.3
Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A
Application Date:	5/9/2006
Time of Day:	9-10 AM
Application Method:	SPRAY
Application Timing:	PRE
Applic. Placement:	BROADCAST
Air Temp., Unit:	17.9 C
% Relative Humidity:	56
Wind Velocity, Unit:	4.6 MPH
Soil Moisture:	DRY
% Cloud Cover:	0

The Ohio State University

CABBAGE - WEED CONTROL AND CROP TOLERANCE IN DIRECT-SEEDED CABBAGE

Trial ID: CABBAGEDSF 2006 | Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio | Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

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

WEED STAGE AT EACH APPLICATION

	A	
Weed 1 Code, Stage:	ABUTH	PRE
Stage Scale:	.	
Density, Unit:	. .	
Weed 2 Code, Stage:	AGRAS	PRE
Stage Scale:	.	
Density, Unit:	. .	
Weed 3 Code, Stage:	AMAXX	PRE
Stage Scale:	.	
Density, Unit:	. .	
Weed 4 Code, Stage:	CHEAL	PRE
Stage Scale:	.	
Density, Unit:	. .	
Weed 5 Code, Stage:	POLAV	PRE
Stage Scale:	.	
Density, Unit:	. .	
Weed 6 Code, Stage:	POLPY	PRE
Stage Scale:	.	
Density, Unit:	. .	
Weed 7 Code, Stage:	POROL	PRE
Stage Scale:	.	
Density, Unit:	. .	
Weed 8 Code, Stage:	SOLPT	PRE
Stage Scale:	.	
Density, Unit:	. .	
Weed 9 Code, Stage:	TAROF	PRE
Stage Scale:	.	
Density, Unit:	. .	

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	40
Nozzle Type:	FLAT FAN
Nozzle Size:	8002 EVS
Nozzle Spacing, Unit:	19 IN
Nozzles/Row:	4
Band Width, Unit:	76 IN
Boom Height, Unit:	18 IN
Ground Speed, Unit:	2.5 MPH
Spray Volume, Unit:	25 GPA

Trial Comments

The yield is based on 4 plants per plot.
In the Trt-Eval Interval, " WAE" refers to weeks after emergence, and " WAT" refers to weeks after treatmant.

The Ohio State University

CABBAGE - WEED CONTROL AND CROP TOLERANCE IN DIRECT-SEEDED CABBAGE

Trial ID: CABBAGEDSF 2006
Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio
Investigator: Doug Doohan

Weed Code								POROL
Crop Code				BRSOL	BRSOL	BRSOL	BRSOL	BRSOL
Part Rated				PLANT	PLANT	PLANT	PLANT	WEED
Rating Data Type				STUNT	CHLOROSIS	STUNT	CHLOROSIS	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/15/2006	5/15/2006	5/22/2006	5/22/2006	5/22/2006
Trt-Eval Interval				1 WAE	1 WAE	1 WAT	1 WAT	1 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
WEEDY CONTROL				0	0	0	0	0
WEED FREE CONTROL				0	0	0	0	99
DUAL MAGNUM	0.5	PT/A	PRE	0	0	0	0	0
DUAL MAGNUM	1	PT/A	PRE	0	0	0	0	0
COMMAND	0.67	PT/A	PRE	0	0	0	0	0
SPARTAN	4.5	OZ/A	PRE	60	0	79	0	0
SPARTAN	9	OZ/A	PRE	88	0	97	0	0
OUTLOOK	0.67	PT/A	PRE	0	0	10	0	0
BALANCE PRO	3	OZ/A	PRE	25	13	50	93	25
KIH-485	3	OZ/A	PRE	0	0	4	0	0
LSD (P=.05)				5	2	5	3	23
Standard Deviation				3.3	1.6	3.5	2	15.8
CV				19.08	126.49	14.56	22.07	127.51

The Ohio State University

CABBAGE - WEED CONTROL AND CROP TOLERANCE IN DIRECT-SEEDED CABBAGE

Trial ID: CABBAGEDSF 2006
Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio
Investigator: Doug Doohan

Weed Code				CYPES	CAPBP	SOLPT		
Crop Code				BRSOL	BRSOL	BRSOL	BRSOL	BRSOL
Part Rated				WEED	WEED	WEED	PLANT	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%
Rating Date				5/22/2006	5/22/2006	5/22/2006	5/30/2006	5/30/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	3 WAT	3 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
WEEDY CONTROL				0	0	0	0	0
WEED FREE CONTROL				99	99	99	0	0
DUAL MAGNUM	0.5	PT/A	PRE	0	0	0	0	9
DUAL MAGNUM	1	PT/A	PRE	0	0	0	0	9
COMMAND	0.67	PT/A	PRE	0	0	0	0	3
SPARTAN	4.5	OZ/A	PRE	0	0	0	0	86
SPARTAN	9	OZ/A	PRE	0	0	0	0	100
OUTLOOK	0.67	PT/A	PRE	0	0	0	13	31
BALANCE PRO	3	OZ/A	PRE	25	25	25	0	100
KIH-485	3	OZ/A	PRE	0	0	0	0	35
LSD (P=.05)				23	23	23	12	14
Standard Deviation				15.8	15.8	15.8	7.9	9.3
CV				127.51	127.51	127.51	632.46	25.05

The Ohio State University

CABBAGE - WEED CONTROL AND CROP TOLERANCE IN DIRECT-SEEDED CABBAGE

Trial ID: CABBAGEDSF 2006
Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio
Investigator: Doug Doohan

Weed Code				AGRASS	SOLPT	CHEAL	AMAXX	POROL
Crop Code				BRSOL	BRSOL	BRSOL	BRSOL	BRSOL
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/30/2006	5/30/2006	5/30/2006	5/30/2006	5/30/2006
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
WEEDY CONTROL				0	0	23	0	0
WEED FREE CONTROL				99	99	99	99	99
DUAL MAGNUM	0.5	PT/A	PRE	95	97	72	99	78
DUAL MAGNUM	1	PT/A	PRE	99	99	73	100	88
COMMAND	0.67	PT/A	PRE	99	95	25	0	97
SPARTAN	4.5	OZ/A	PRE	96	99	100	100	99
SPARTAN	9	OZ/A	PRE	100	100	75	100	100
OUTLOOK	0.67	PT/A	PRE	100	100	25	100	99
BALANCE PRO	3	OZ/A	PRE	100	100	100	100	100
KIH-485	3	OZ/A	PRE	100	100	75	100	100
LSD (P=.05)				3	5	59	1	6
Standard Deviation				2.3	3.3	40.6	0.3	3.8
CV				2.63	3.67	61.1	0.43	4.48

The Ohio State University

CABBAGE - WEED CONTROL AND CROP TOLERANCE IN DIRECT-SEEDED CABBAGE

Trial ID: CABBAGEDSF 2006
Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio
Investigator: Doug Doohan

Weed Code				POLPY	ABUTH			AGRASS
Crop Code				BRSOL	BRSOL	BRSOL	BRSOL	BRSOL
Part Rated				WEED	WEED	PLANT	PLANT	WEED
Rating Data Type				CONTROL	CONTROL	CHLOROSIS	STUNT	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/30/2006	5/30/2006	6/26/2006	6/26/2006	6/26/2006
Trt-Eval Interval				3 WAT	3 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	16	17	18	19	20
WEEDY CONTROL				0	0	0	0	0
WEED FREE CONTROL				99	99	0	0	99
DUAL MAGNUM	0.5	PT/A	PRE	0	0	0	6	95
DUAL MAGNUM	1	PT/A	PRE	97	74	0	3	100
COMMAND	0.67	PT/A	PRE	100	100	0	0	95
SPARTAN	4.5	OZ/A	PRE	99	99	0	69	66
SPARTAN	9	OZ/A	PRE	100	100	0	96	95
OUTLOOK	0.67	PT/A	PRE	99	99	0	30	100
BALANCE PRO	3	OZ/A	PRE	100	100	0	93	83
KIH-485	3	OZ/A	PRE	0	99	0	8	100
LSD (P=.05)				2	23	0	28	24
Standard Deviation				1.4	15.6	0	19	16.4
CV				2.09	20.32	0	62.46	19.67

The Ohio State University

CABBAGE - WEED CONTROL AND CROP TOLERANCE IN DIRECT-SEEDED CABBAGE

Trial ID: CABBAGEDSF 2006
Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio
Investigator: Doug Doohan

Weed Code				SOLPT	TAROF	POLAV	CHEAL	AMAXX
Crop Code				BRSOL	BRSOL	BRSOL	BRSOL	BRSOL
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/26/2006	6/26/2006	6/26/2006	6/26/2006	6/26/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	21	22	23	24	25
WEEDY CONTROL				0	0	0	0	0
WEED FREE CONTROL				99	99	99	99	99
DUAL MAGNUM	0.5	PT/A	PRE	93	100	100	100	95
DUAL MAGNUM	1	PT/A	PRE	71	99	99	100	100
COMMAND	0.67	PT/A	PRE	95	100	100	98	83
SPARTAN	4.5	OZ/A	PRE	100	100	100	100	100
SPARTAN	9	OZ/A	PRE	100	100	100	100	100
OUTLOOK	0.67	PT/A	PRE	100	100	100	100	100
BALANCE PRO	3	OZ/A	PRE	100	100	100	100	94
KIH-485	3	OZ/A	PRE	100	100	100	98	100
LSD (P=.05)				21	1	1	3	16
Standard Deviation				14.3	0.8	0.8	2.1	11.3
CV				16.65	0.88	0.88	2.36	12.99

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CABBAGE - WEED CONTROL AND CROP TOLERANCE IN DIRECT-SEEDED CABBAGE

Trial ID: CABBAGEDSF 2006
Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio
Investigator: Doug Doohan

Weed Code				POROL	POLPY	ABUTH		
Crop Code				BRSOL	BRSOL	BRSOL	BRSOL	BRSOL
Part Rated				WEED	WEED	WEED	HEAD	HEAD
Rating Data Type				CONTROL	CONTROL	CONTROL	MKTB #	MKTB WT
Rating Unit				%	%	%	PER PLOT	PER PLOT
Rating Date				6/26/2006	6/26/2006	6/26/2006	9/14/2006	9/14/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	26	27	28	29	30
WEEDY CONTROL				0	0	0	0	0
WEED FREE CONTROL				99	99	99	4	26.2
DUAL MAGNUM	0.5	PT/A	PRE	75	90	100	4	25.5
DUAL MAGNUM	1	PT/A	PRE	61	96	100	4	25.8
COMMAND	0.67	PT/A	PRE	98	100	100	4	23.3
SPARTAN	4.5	OZ/A	PRE	93	94	100	0	0
SPARTAN	9	OZ/A	PRE	98	100	100	0	0
OUTLOOK	0.67	PT/A	PRE	85	100	100	4	21.4
BALANCE PRO	3	OZ/A	PRE	100	100	100	0	0
KIH-485	3	OZ/A	PRE	96	100	100	4	22.3
LSD (P=.05)				16	9	0	1	6
Standard Deviation				10.9	6	0	0.5	4.31
CV				13.6	6.77	0	20.52	29.84

The Ohio State University

CHRISTMAS TREES - WEED CONTROL AND CROP TOLERANCE WITH WESTAR AND VELPAR PLUS OUST

Trial ID: XMASTREESW 2006
Location: Wooster, Ohio

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

TRIAL LOCATION

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

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 04/10/06
Planned Completion Date: 10/15/06

Objective: Evaluate Westar and Velpar plus Oust combinations for weed control and crop injury on Christmas trees.

CROP AND WEED DESCRIPTION

Weed		Code	Common Name	Scientific Name
	1	AGRASS	annual grasses (various)	*Panicum spp.and Digitaria spp.*
	2	AMBEL	common ragweed	*Ambrosia artemisiifolia L.*
	3	APCCA	hemp dogbane	*Apocynum cannabinum L.*
	4	CAPBP	shepherd's purse	*Capsella bursa-pastoris (L.) Medicus*
	5	CARHI	hairy bittercress	*Cardamine hirsuta L.*
	6	CIRAR	Canada thistle	*Cirsium arvense (L.) Scop.*
	7	CYPES	yellow nutsedge	*Cyperus esculentes L.*
	8	DACGL	orchardgrass	*Dactylis glomerata L.*
	9	DAUCA	wild carrot	*Daucus carota L.*
	10	GLEHE	ground ivy	*Glechoma hederacea L.*
	11	LAMPU	purple deadnettle	*Lamium purpureum L.*
	12	PLALA	buckhorn plantain	*Plantago lanceolata L.*
	13	PRUVU	healall	*Prunella vulgaris L.*
	14	RUBFR	bramble	*Rubus fruticosis L.*
	15	RUMAA	red sorrel	*Rumex acetosella L.*
	16	SAMCN	American elder	*Sambucus canadensis L.*
	17	SETFA	giant foxtail	*Setaria faberi Herrm.*
	18	SOOCA	Canada goldenrod	*Solidago canadensis L.*
	19	TAROF	dandelion	*Taraxacum officinale Weber in Wigger*
	20	TOXRA	poison-ivy	*Toxicodendron radicans (L.) Ktze.*
	21	VENAL	tall ironweed	*Vernonia altissima Nutt.*

Crop 1: PIEPU CHRISTMAS TREES Variety: COLORADO BLUE SPRUCE
Planting Date: 05/15/02
Rate: 1400 PER ACRE
Row Spacing: 6 FT X 5 FT
Perennial Age: 4 YRS

Planting Method: HAND PLANTED
Depth: 8 IN
Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 3 FT
Site Type: LEVEL FIELD
Tillage Type: NONE

Plot Length, Unit: 30 FT
Reps: 4
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM
Soil Name: CANFIELD SILT LOAM

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CHRISTMAS TREES - WEED CONTROL AND CROP TOLERANCE WITH WESTAR AND VELPAR PLUS OUST

Trial ID: XMASTREESW 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

APPLICATION DESCRIPTION

	A
Application Date:	4/11/2006
Time of Day:	3-4 PM
Application Method:	SPRAY
Application Timing:	PRE
Applic. Placement:	DIRECTED
Air Temp., Unit:	24.5 C
% Relative Humidity:	22
Wind Velocity, Unit:	3 MPH
% Cloud Cover:	50

CROP STAGE AT EACH APPLICATION

	A	
Crop 1 Code, Stage:	PIEPU	PRE
Stage Scale:	DORMANT	
Height, Unit:	3 FT	

WEED STAGE AT EACH APPLICATION

	A	
Weed 1 Code, Stage:	AGRASS	PRE
Stage Scale:	0.5-2 IN	
Density, Unit:	MEDIUM	PLOT
Weed 2 Code, Stage:	AMBEL	PRE
Stage Scale:	.	
Density, Unit:	. .	
Weed 3 Code, Stage:	APCCA	PRE
Stage Scale:	.	
Density, Unit:	. .	
Weed 4 Code, Stage:	CAPBP	PRE
Stage Scale:	.	
Density, Unit:	. .	
Weed 5 Code, Stage:	CARHI	PRE
Stage Scale:	.	
Density, Unit:	. .	
Weed 6 Code, Stage:	CIRAR	PRE
Stage Scale:	.	
Density, Unit:	. .	
Weed 7 Code, Stage:	CYPES	PRE
Stage Scale:	.	
Density, Unit:	. .	
Weed 8 Code, Stage:	DACGL	PRE
Stage Scale:	.	
Density, Unit:	. .	
Weed 9 Code, Stage:	DAUCA	PRE
Stage Scale:	.	
Density, Unit:	. .	
Weed10 Code, Stage:	GLEHE	PRE
Stage Scale:	1-3 IN DIAMETER	
Density, Unit:	MEDIUM	PLOT
Weed11 Code, Stage:	LAMPU	PRE
Stage Scale:	.	
Density, Unit:	. .	
Weed12 Code, Stage:	PLALA	PRE
Stage Scale:	1-2 IN DIAMETER	
Density, Unit:	LOW	PLOT

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CHRISTMAS TREES - WEED CONTROL AND CROP TOLERANCE WITH WESTAR AND VELPAR PLUS OUST

Trial ID: XMASTREESW 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

Weed13 Code, Stage:	PRUVU	PRE
Stage Scale:	2-4 IN DIAMETER	
Density, Unit:	LOW	PLOT
Weed14 Code, Stage:	RUBFR	PRE
Stage Scale:	.	
Density, Unit:	.	.
Weed15 Code, Stage:	RUMAA	PRE
Stage Scale:	.	
Density, Unit:	.	.
Weed16 Code, Stage:	SAMCN	PRE
Stage Scale:	.	
Density, Unit:	.	.
Weed17 Code, Stage:	SETFA	PRE
Stage Scale:	.	
Density, Unit:	.	.
Weed18 Code, Stage:	SOOCA	PRE
Stage Scale:	.	
Density, Unit:	.	.
Weed19 Code, Stage:	TAROF	PRE
Stage Scale:	6 IN DIAMETER	
Density, Unit:	MEDIUM	PLOT
Weed20 Code, Stage:	TOXRA	PRE
Stage Scale:	.	
Density, Unit:	.	.
Weed21 Code, Stage:	VENAL	PRE
Stage Scale:	.	
Density, Unit:	.	.

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	40
Nozzle Type:	FLAT FAN
Nozzle Size:	8002 EVS
Nozzles/Row:	1
Band Width, Unit:	18 IN
Boom Height, Unit:	18 IN
Ground Speed, Unit:	2.5 MPH
Spray Volume, Unit:	25 GPA

Trial Comments

No soil tests taken on trial plot.
In the Trt-Eval Interval "DAT" refers to days after treatment

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CHRISTMAS TREES - WEED CONTROL AND CROP TOLERANCE WITH WESTAR AND VELPAR PLUS OUST

Trial ID: XMASTREESW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					CARHI	RUBFR	TAROF	LAMPU	AGRASS
Crop Code				PICEA	PICEA	PICEA	PICEA	PICEA	PICEA
Part Rated				PLANT	WEED	WEED	WEED	WEED	WEED
Rating Data Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				5/11/2006	5/11/2006	5/11/2006	5/11/2006	5/11/2006	5/11/2006
Trt-Eval Interval				30 DAT	30 DAT	30 DAT	30 DAT	30 DAT	30 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
CONTROL				0	0	0	0	0	0
OUST XP+	0.5	OZ/A	PRE	0	99	83	99	99	99
VELPAR+	10	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.75	OZ/A	PRE	0	99	93	99	99	99
VELPAR+	15	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	1	OZ/A	PRE	0	99	90	99	99	99
VELPAR+	20	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.52	OZ/A	PRE	0	99	99	99	99	99
VELPAR+	5.49	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.69	OZ/A	PRE	0	99	99	99	99	99
VELPAR+	7.32	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.87	OZ/A	PRE	0	99	99	99	99	99
VELPAR+	9.15	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	1.04	OZ/A	PRE	0	99	91	99	99	99
VELPAR+	11	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
FLUMIOXAZIN+	8	OZ/A	PRE	0	99	99	0	99	99
NIS	0.25	QT/A	PRE						
LSD (P=.05)				0	0	13	0	0	0
Standard Deviation				0	0	8.6	0	0	0
CV				0	0	10.33	0	0	0

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CHRISTMAS TREES - WEED CONTROL AND CROP TOLERANCE WITH WESTAR AND VELPAR PLUS OUST

Trial ID: XMASTREESW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				SOOCA	GLEHE	PRUVU	DACGL	PLALA	TOXRA
Crop Code				PICEA	PICEA	PICEA	PICEA	PICEA	PICEA
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				5/11/2006	5/11/2006	5/11/2006	5/11/2006	5/11/2006	5/11/2006
Trt-Eval Interval				30 DAT	30 DAT	30 DAT	30 DAT	30 DAT	30 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
CONTROL				0	0	0	0	0	0
OUST XP+	0.5	OZ/A	PRE	89	92	99	92	99	99
VELPAR+	10	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.75	OZ/A	PRE	92	99	99	99	99	99
VELPAR+	15	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	1	OZ/A	PRE	98	89	99	74	99	99
VELPAR+	20	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.52	OZ/A	PRE	90	90	99	79	99	99
VELPAR+	5.49	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.69	OZ/A	PRE	76	86	99	92	99	99
VELPAR+	7.32	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.87	OZ/A	PRE	98	93	99	97	99	99
VELPAR+	9.15	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	1.04	OZ/A	PRE	92	86	99	99	99	99
VELPAR+	11	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
FLUMIOXAZIN+	8	OZ/A	PRE	74	50	99	25	0	99
NIS	0.25	QT/A	PRE						
LSD (P=.05)				28	33	0	33	0	0
Standard Deviation				19.4	22.3	0	22.7	0	0
CV				24.6	29.37	0	31.19	0	0

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CHRISTMAS TREES - WEED CONTROL AND CROP TOLERANCE WITH WESTAR AND VELPAR PLUS OUST

Trial ID: XMASTREESW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				DAUCA	RUMAA	CIRAR		CARHI	RUBFR
Crop Code				PICEA	PICEA	PICEA	PICEA	PICEA	PICEA
Part Rated				WEED	WEED	WEED	PLANT	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				5/11/2006	5/11/2006	5/11/2006	6/11/2006	6/11/2006	6/11/2006
Trt-Eval Interval				30 DAT	30 DAT	30 DAT	60 DAT	60 DAT	60 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17	18
CONTROL				0	0	0	0	0	0
OUST XP+	0.5	OZ/A	PRE	99	99	96	0	99	54
VELPAR+	10	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.75	OZ/A	PRE	97	99	89	0	99	75
VELPAR+	15	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	1	OZ/A	PRE	97	99	99	0	99	89
VELPAR+	20	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.52	OZ/A	PRE	94	99	99	0	99	64
VELPAR+	5.49	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.69	OZ/A	PRE	99	99	96	0	99	86
VELPAR+	7.32	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.87	OZ/A	PRE	99	99	92	0	99	70
VELPAR+	9.15	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	1.04	OZ/A	PRE	99	99	99	0	99	86
VELPAR+	11	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
FLUMIOXAZIN+	8	OZ/A	PRE	0	25	25	0	99	46
NIS	0.25	QT/A	PRE						
LSD (P=.05)				6	24	26	0	0	39
Standard Deviation				3.8	16.5	17.4	0	0	26.7
CV				5.06	20.69	22.63	0	0	42.22

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CHRISTMAS TREES - WEED CONTROL AND CROP TOLERANCE WITH WESTAR AND VELPAR PLUS OUST

Trial ID: XMASTREESW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				TAROF	LAMPU	SAMCN	SETFA	SOOCA	GLEHE
Crop Code				PICEA	PICEA	PICEA	PICEA	PICEA	PICEA
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/11/2006	6/11/2006	6/11/2006	6/11/2006	6/11/2006	6/11/2006
Trt-Eval Interval				60 DAT	60 DAT	60 DAT	60 DAT	60 DAT	60 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19	20	21	22	23	24
CONTROL				0	0	0	0	0	0
OUST XP+	0.5	OZ/A	PRE	99	99	99	99	73	84
VELPAR+	10	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.75	OZ/A	PRE	99	99	99	99	91	93
VELPAR+	15	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	1	OZ/A	PRE	99	99	99	99	99	99
VELPAR+	20	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.52	OZ/A	PRE	99	99	99	99	96	77
VELPAR+	5.49	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.69	OZ/A	PRE	99	99	87	99	87	78
VELPAR+	7.32	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.87	OZ/A	PRE	99	99	99	99	74	93
VELPAR+	9.15	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	1.04	OZ/A	PRE	99	99	94	99	95	91
VELPAR+	11	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
FLUMIOXAZIN+	8	OZ/A	PRE	99	99	74	74	25	24
NIS	0.25	QT/A	PRE						
LSD (P=.05)				0	0	25	24	36	27
Standard Deviation				0	0	17.2	16.5	24.8	18.3
CV				0	0	20.63	19.35	34.94	25.76

The Ohio State University

CHRISTMAS TREES - WEED CONTROL AND CROP TOLERANCE WITH WESTAR AND VELPAR PLUS OUST

Trial ID: XMASTREESW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				PRUVU	APCCA	VENAL	DACGL	PLALA	DAUCA
Crop Code				PICEA	PICEA	PICEA	PICEA	PICEA	PICEA
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/11/2006	6/11/2006	6/11/2006	6/11/2006	6/11/2006	6/11/2006
Trt-Eval Interval				60 DAT	60 DAT	60 DAT	60 DAT	60 DAT	60 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	25	26	27	28	29	30
CONTROL				0	0	0	0	0	0
OUST XP+	0.5	OZ/A	PRE	99	99	35	94	98	99
VELPAR+	10	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.75	OZ/A	PRE	99	99	87	99	99	99
VELPAR+	15	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	1	OZ/A	PRE	99	82	75	87	99	99
VELPAR+	20	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.52	OZ/A	PRE	99	82	76	65	99	99
VELPAR+	5.49	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.69	OZ/A	PRE	99	99	80	82	99	99
VELPAR+	7.32	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.87	OZ/A	PRE	97	99	79	93	99	97
VELPAR+	9.15	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	1.04	OZ/A	PRE	99	99	80	99	99	99
VELPAR+	11	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
FLUMIOXAZIN+	8	OZ/A	PRE	99	87	70	74	99	99
NIS	0.25	QT/A	PRE						
LSD (P=.05)				2	26	30	37	1	2
Standard Deviation				1.5	17.7	20.5	25.6	0.7	1.5
CV				1.71	21.39	31.7	33.24	0.76	1.71

The Ohio State University

CHRISTMAS TREES - WEED CONTROL AND CROP TOLERANCE WITH WESTAR AND VELPAR PLUS OUST

Trial ID: XMASTREESW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				TOXRA	RUMAA	CIRAR		AGRASS	CARHI
Crop Code				PICEA	PICEA	PICEA	PICEA	PICEA	PICEA
Part Rated				WEED	WEED	WEED	PLANT	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/11/2006	6/11/2006	6/11/2006	7/12/2006	7/12/2006	7/12/2006
Trt-Eval Interval				60 DAT	60 DAT	60 DAT	90 DAT	90 DAT	90 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	31	32	33	34	35	36
CONTROL				0	0	0	0	0	0
OUST XP+	0.5	OZ/A	PRE	82	99	99	0	58	74
VELPAR+	10	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.75	OZ/A	PRE	75	99	99	0	76	99
VELPAR+	15	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	1	OZ/A	PRE	67	99	99	0	87	99
VELPAR+	20	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.52	OZ/A	PRE	29	99	99	0	41	74
VELPAR+	5.49	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.69	OZ/A	PRE	42	99	99	0	53	99
VELPAR+	7.32	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.87	OZ/A	PRE	88	74	99	0	71	99
VELPAR+	9.15	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	1.04	OZ/A	PRE	94	99	99	0	87	99
VELPAR+	11	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
FLUMIOXAZIN+	8	OZ/A	PRE	74	72	99	0	59	74
NIS	0.25	QT/A	PRE						
LSD (P=.05)				44	29	0	0	43	43
Standard Deviation				30.4	20.2	0	0	29.1	29.7
CV				49.62	24.52	0	0	49.22	37.3

The Ohio State University

CHRISTMAS TREES - WEED CONTROL AND CROP TOLERANCE WITH WESTAR AND VELPAR PLUS OUST

Trial ID: XMASTREESW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				RUBFR	AMBEL	TAROF	LAMPU	SAMCN	SETFA
Crop Code				PICEA	PICEA	PICEA	PICEA	PICEA	PICEA
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/12/2006	7/12/2006	7/12/2006	7/12/2006	7/12/2006	7/12/2006
Trt-Eval Interval				90 DAT	90 DAT	90 DAT	90 DAT	90 DAT	90 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	37	38	39	40	41	42
CONTROL				0	0	0	0	0	0
OUST XP+	0.5	OZ/A	PRE	30	50	99	99	99	99
VELPAR+	10	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.75	OZ/A	PRE	55	99	99	99	74	99
VELPAR+	15	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	1	OZ/A	PRE	73	99	99	99	74	99
VELPAR+	20	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.52	OZ/A	PRE	52	74	74	74	99	74
VELPAR+	5.49	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.69	OZ/A	PRE	71	74	99	99	74	99
VELPAR+	7.32	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.87	OZ/A	PRE	51	50	99	99	99	84
VELPAR+	9.15	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	1.04	OZ/A	PRE	60	99	99	99	89	99
VELPAR+	11	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
FLUMIOXAZIN+	8	OZ/A	PRE	0	75	74	74	74	74
NIS	0.25	QT/A	PRE						
LSD (P=.05)				48	60	35	35	49	38
Standard Deviation				32.6	41.3	23.8	23.8	33.8	26.3
CV				74.9	60.02	28.87	28.87	44.49	32.51

The Ohio State University

CHRISTMAS TREES - WEED CONTROL AND CROP TOLERANCE WITH WESTAR AND VELPAR PLUS OUST

Trial ID: XMASTREESW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				SOOCA	GLEHE	PRUVU	APCCA	VENAL	DACGL
Crop Code				PICEA	PICEA	PICEA	PICEA	PICEA	PICEA
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/12/2006	7/12/2006	7/12/2006	7/12/2006	7/12/2006	7/12/2006
Trt-Eval Interval				90 DAT	90 DAT	90 DAT	90 DAT	90 DAT	90 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	43	44	45	46	47	48
CONTROL				0	0	0	0	0	0
OUST XP+	0.5	OZ/A	PRE	60	55	99	50	15	96
VELPAR+	10	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.75	OZ/A	PRE	87	89	99	72	25	99
VELPAR+	15	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	1	OZ/A	PRE	99	99	99	74	59	96
VELPAR+	20	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.52	OZ/A	PRE	84	52	74	50	41	50
VELPAR+	5.49	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.69	OZ/A	PRE	89	44	99	99	45	50
VELPAR+	7.32	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.87	OZ/A	PRE	98	88	74	99	38	99
VELPAR+	9.15	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	1.04	OZ/A	PRE	76	81	99	99	76	99
VELPAR+	11	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
FLUMIOXAZIN+	8	OZ/A	PRE	3	35	50	74	50	25
NIS	0.25	QT/A	PRE						
LSD (P=.05)				34	32	40	47	43	46
Standard Deviation				22.9	21.8	27.4	32.3	29.6	31.2
CV				34.66	36.15	35.54	47.1	76.5	45.95

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CHRISTMAS TREES - WEED CONTROL AND CROP TOLERANCE WITH WESTAR AND VELPAR PLUS OUST

Trial ID: XMASTREESW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				DAUCA	PLALA	TOXRA	RUMAA	CIRAR	CYPES
Crop Code				PICEA	PICEA	PICEA	PICEA	PICEA	PICEA
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/12/2006	7/12/2006	7/12/2006	7/12/2006	7/12/2006	7/12/2006
Trt-Eval Interval				90 DAT	90 DAT	90 DAT	90 DAT	90 DAT	90 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	49	50	51	52	53	54
CONTROL				0	0	0	0	0	0
OUST XP+	0.5	OZ/A	PRE	87	93	40	50	50	99
VELPAR+	10	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.75	OZ/A	PRE	89	99	76	99	74	74
VELPAR+	15	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	1	OZ/A	PRE	99	99	50	99	99	74
VELPAR+	20	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.52	OZ/A	PRE	99	99	13	99	57	50
VELPAR+	5.49	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.69	OZ/A	PRE	96	99	41	97	67	97
VELPAR+	7.32	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	0.87	OZ/A	PRE	93	99	67	99	74	99
VELPAR+	9.15	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
OUST XP+	1.04	OZ/A	PRE	97	99	68	99	99	99
VELPAR+	11	OZ/A	PRE						
NIS	0.25	QT/A	PRE						
FLUMIOXAZIN+	8	OZ/A	PRE	37	74	0	50	50	74
NIS	0.25	QT/A	PRE						
LSD (P=.05)				30	25	46	40	60	42
Standard Deviation				20.3	17.1	31.4	27	41.4	28.6
CV				26.17	20.26	79.77	35.16	65.35	38.67

The Ohio State University

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

Trial ID: VINECROPSW 2006 | Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio | Investigator: Doug Doohan

TRIAL LOCATION

City: Wooster | Trial Status: Final
State/Prov.: Ohio | Trial Reliability: Reliable
Postal Code: 44691 | Initiation Date: 07/10/06
Country: USA | Planned Completion Date: 11/15/06

Objective: To evaluate PRE and POST herbicide combinations for weed control and crop injury.

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	CHEAL	common lambsquarters	*Chenopodium album L.*
4	CYPES	yellow nutsedge	*Cyperus esclentes L.*
5	POLPY	Pennsylvania smartweed	*Polygonum pensylvanicum L.*
6	STEME	common chickweed	*Stellaria media (L.) Vill*
7	TAROF	dandelion	*Taraxacum officinale Weber*

Crop 1: CUUPE | PUMPKIN | Variety: HYBRID PAM
Planting Date: 07/10/06 | Planting Method: CONVENTIONAL
Rate: 1 SEED/12 IN | Depth: 1.5 IN
Row Spacing: 6 FT | Seed Bed: CONVENTIONAL
Soil Moisture: DRY

Crop 2: CUMSA | CUCUMBER | Variety: ZAPATA
Planting Date: 07/10/06 | Planting Method: CONVENTIONAL
Rate: 1 SEED/6 IN | Depth: 1 IN
Row Spacing: 6 FT | Seed Bed: CONVENTIONAL
Soil Moisture: DRY

Crop 3: CUMHY | CANTALOUPE | Variety: ORANGE STAR
Planting Date: 07/10/06 | Planting Method: CONVENTIONAL
Rate: 1 SEED/6 IN | Depth: 1 IN
Row Spacing: 6 FT | Seed Bed: CONVENTIONAL
Soil Moisture: DRY

SITE AND DESIGN

Plot Width, Unit: 6 FT | Plot Length, Unit: 10 FT
Site Type: LEVEL FIELD | Reps: 4
Tillage Type: CONVENTIONAL | Study Design: SPLIT-PLOT

SOIL DESCRIPTION

% Sand: 15 | % OM: 3.0 | Texture: SILT LOAM
% Silt: 67 | pH: 6.3 | Soil Name: WOOSTER SILT LOAM
% Clay: 15 | CEC: 8.5 | Fert. Level: MODERATE

The Ohio State University

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

Trial ID: VINECROPSW 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

APPLICATION DESCRIPTION

	A	B
Application Date:	7/10/2006	7/31/2006
Time of Day:	1-3 PM	12-1 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	69 F	84 F
% Relative Humidity:	90	72
Wind Velocity, Unit:	7 MPH	4 MPH
% Cloud Cover:	50	0

CROP STAGE AT EACH APPLICATION

	A		B	
Crop 1 Code, Stage:	CUUPE	PRE	CUUPE	POST
Stage Scale:	.		2-5 LF	
Height, Unit:	0. .		8 IN	
Crop 2 Code, Stage:	CUMSA	PRE	CUMSA	POST
Stage Scale:	.		2-5 LF	
Height, Unit:	0. .		8 IN	
Crop 3 Code, Stage:	CUMHY	PRE	CUMHY	POST
Stage Scale:	.		2-5 LF	
Height, Unit:	0. .		8 IN	

WEED STAGE AT EACH APPLICATION

	A		B	
Weed 1 Code, Stage:	AGRAS	PRE	AGRAS	POST
Stage Scale:	.		1-2 IN	
Density, Unit:	. .		MEDIUM	PLOT
Weed 2 Code, Stage:	AMAXX	PRE	AMAXX	POST
Stage Scale:	.		1-2 IN	
Density, Unit:	. .		MEDIUM	PLOT
Weed 3 Code, Stage:	CHEAL	PRE	CHEAL	POST
Stage Scale:	.		1-2 IN	
Density, Unit:	. .		MEDIUM	PLOT
Weed 4 Code, Stage:	CYPES	PRE	CYPES	POST
Stage Scale:	.		1-5 IN	
Density, Unit:	. .		HIGH	PLOT
Weed 5 Code, Stage:	POLPY	PRE	POLPY	POST
Stage Scale:	.		1-2 IN DIAM	
Density, Unit:	. .		LOW	PLOT
Weed 6 Code, Stage:	STEME	PRE	STEME	POST
Stage Scale:	.		1-2 IN	
Density, Unit:	. .		LOW	PLOT
Weed 7 Code, Stage:	TAROF	PRE	TAROF	POST
Stage Scale:	.		2 IN DIAM	
Density, Unit:	. .		LOW	PLOT

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

Trial ID: VINECROPSW 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, 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:	18 IN	18 IN
Nozzles/Row:	4	4
Band Width, Unit:	72 IN	72 IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	2.5 MPH	2.5 MPH
Spray Volume, Unit:	25 GPA	25 GPA

Trial Comments

We had flooding this summer on one end of the trial. Plots affected include: 101-109, 201-209, 301-309, 401-409.
All crops were strip harvested on one date using 4 plants/plot, and were graded into marketable and immature fruit.
In the Trt-Eval Interval, " WAT" refers to weeks after treatmant.

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code									
Crop Code									
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				STUNT	LEAF CURL	CHLOROSIS	STUNT	LEAF CURL	CHLOROSIS
Rating Unit				%	%	%	%	%	%
Rating Date				7/17/2006	7/17/2006	7/17/2006	7/31/2006	7/31/2006	7/31/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
WEEDY CONTROL CANTELOUPE				0	0	0	0	0	0
WEEDY CONTROL PICKLE				0	0	0	0	0	0
WEEDY CONTROL PUMPKIN				0	0	0	0	0	0
WEED FREE CONTROL CANTELOUPE				0	0	0	0	0	0
WEED FREE CONTROL PICKLE				0	0	0	0	0	0
WEED FREE CONTROL PUMPKIN				0	0	0	0	0	0
DUAL MAGNUM CANTELOUPE	1	PT/A	PRE	28	0	0	57	0	10
DUAL MAGNUM PICKLE	1	PT/A	PRE	25	0	0	43	0	0
DUAL MAGNUM PUMPKIN	1	PT/A	PRE	15	0	0	27	0	0
CURBIT CANTELOUPE	2	PT/A	PRE	8	0	0	15	0	0
CURBIT PICKLE	2	PT/A	PRE	10	0	0	0	0	0
CURBIT PUMPKIN	2	PT/A	PRE	14	0	0	0	0	0
SANDEA CANTELOUPE	0.66	OZ/A	PRE	5	0	0	33	0	0
SANDEA PICKLE	0.66	OZ/A	PRE	7	0	0	23	0	0

The Ohio State University

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code									
Crop Code									
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				STUNT	LEAF CURL	CHLOROSIS	STUNT	LEAF CURL	CHLOROSIS
Rating Unit				%	%	%	%	%	%
Rating Date				7/17/2006	7/17/2006	7/17/2006	7/31/2006	7/31/2006	7/31/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
SANDEA PUMPKIN	0.66	OZ/A	PRE	55	43	0	57	0	0
COMMAND CANTELOUPE	1.33	PT/A	PRE	5	0	0	13	0	0
COMMAND PICKLE	1.33	PT/A	PRE	0	0	0	17	0	0
COMMAND PUMPKIN	1.33	PT/A	PRE	17	0	0	22	0	3
MATRIX+	1.6	OZ/A	PRE	53	0	0	83	0	0
NIS	0.5	PT/A	PRE						
CANTELOUPE									
MATRIX+	1.6	OZ/A	PRE	50	0	0	76	0	0
NIS	0.5	PT/A	PRE						
PICKLE									
MATRIX+	1.6	OZ/A	PRE	83	48	0	83	0	0
NIS	0.5	PT/A	PRE						
PUMPKIN									
FLEXSTAR CANTELOUPE	24	OZ/A	PRE	15	0	0	35	0	0
FLEXSTAR PICKLE	24	OZ/A	PRE	35	10	0	55	0	8
FLEXSTAR PUMPKIN	24	OZ/A	PRE	13	0	0	15	0	0
SANDEA	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
CANTELOUPE									
SANDEA	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
PICKLE									

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code										
Crop Code										
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				STUNT	LEAF CURL	CHLOROSIS	STUNT	LEAF CURL	CHLOROSIS
Rating Unit				%	%	%	%	%	%
Rating Date				7/17/2006	7/17/2006	7/17/2006	7/31/2006	7/31/2006	7/31/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
SANDEA	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
PUMPKIN									
DUAL MAGNUM	1	PT/A	POST						
DUAL MAGNUM	1	PT/A	POST						
PICKLE									
DUAL MAGNUM	1	PT/A	POST						
PUMPKIN									
LSD (P=.05)				16	21	0	23	0	5
Standard Deviation				11.1	15.2	0	16	0	3.7
CV				61.16	363.72	0	58.78	0	425.58

The Ohio State University

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				AGRASS	STEME	TAROF	CHEAL	AMAXX	POLPY
Crop Code				CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/31/2006	7/31/2006	7/31/2006	7/31/2006	7/31/2006	7/31/2006
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
WEEDY CONTROL CANTELOUPE				0	0	0	0	0	0
WEEDY CONTROL PICKLE				0	0	0	0	0	0
WEEDY CONTROL PUMPKIN				0	0	0	0	0	0
WEED FREE CONTROL CANTELOUPE				0	0	0	0	0	0
WEED FREE CONTROL PICKLE				0	0	0	0	0	0
WEED FREE CONTROL PUMPKIN				0	0	0	0	0	0
DUAL MAGNUM CANTELOUPE	1	PT/A	PRE	99	99	99	92	99	99
DUAL MAGNUM PICKLE	1	PT/A	PRE	99	99	50	92	99	99
DUAL MAGNUM PUMPKIN	1	PT/A	PRE	99	99	50	92	99	99
CURBIT CANTELOUPE	2	PT/A	PRE	99	97	99	74	99	74
CURBIT PICKLE	2	PT/A	PRE	99	97	74	74	99	74
CURBIT PUMPKIN	2	PT/A	PRE	99	97	99	74	99	74
SANDEA CANTELOUPE	0.66	OZ/A	PRE	98	99	99	99	99	99
SANDEA PICKLE	0.66	OZ/A	PRE	98	99	99	99	99	99

The Ohio State University

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				AGRASS	STEME	TAROF	CHEAL	AMAXX	POLPY
Crop Code				CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/31/2006	7/31/2006	7/31/2006	7/31/2006	7/31/2006	7/31/2006
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
SANDEA PUMPKIN	0.66	OZ/A	PRE	98	99	99	99	99	99
COMMAND CANTELOUPE	1.33	PT/A	PRE	99	99	99	99	99	99
COMMAND PICKLE	1.33	PT/A	PRE	99	99	99	99	96	99
COMMAND PUMPKIN	1.33	PT/A	PRE	99	99	99	99	94	99
MATRIX+ NIS CANTELOUPE	1.6 0.5	OZ/A PT/A	PRE PRE	99	99	99	96	99	99
MATRIX+ NIS PICKLE	1.6 0.5	OZ/A PT/A	PRE PRE	99	99	99	96	99	99
MATRIX+ NIS PUMPKIN	1.6 0.5	OZ/A PT/A	PRE PRE	99	99	99	98	99	99
FLEXSTAR CANTELOUPE	24	OZ/A	PRE	99	50	99	99	99	99
FLEXSTAR PICKLE	24	OZ/A	PRE	99	50	99	99	99	99
FLEXSTAR PUMPKIN	24	OZ/A	PRE	99	50	99	99	99	99
SANDEA NIS CANTELOUPE	0.66 0.5	OZ/A PT/A	POST POST						
SANDEA NIS PICKLE	0.66 0.5	OZ/A PT/A	POST POST						

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				AGRASS	STEME	TAROF	CHEAL	AMAXX	POLPY
Crop Code				CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/31/2006	7/31/2006	7/31/2006	7/31/2006	7/31/2006	7/31/2006
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
SANDEA	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
PUMPKIN									
DUAL MAGNUM	1	PT/A	POST						
DUAL MAGNUM	1	PT/A	POST						
PICKLE									
DUAL MAGNUM	1	PT/A	POST						
PUMPKIN									
LSD (P=.05)				1	22	26	28	3	28
Standard Deviation				0.7	15.8	18.2	19.6	1.8	19.5
CV				1	23.27	26.3	27.96	2.47	27.34

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				CYPES				AGRASS
Crop Code				CUMSA				CUMSA
Part Rated				WEED	PLANT	PLANT	PLANT	WEED
Rating Data Type				CONTROL	STUNT	LEAF CURL	CHLOROSIS	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/31/2006	8/7/2006	8/7/2006	8/7/2006	8/7/2006
Trt-Eval Interval				3 WAT	1 WAT	1 WAT	1 WAT	1 WAT
Spray Timing				PRE	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17
WEEDY CONTROL CANTELOUPE				0	0	0	0	0
WEEDY CONTROL PICKLE				0	0	0	0	0
WEEDY CONTROL PUMPKIN				0	0	0	0	0
WEED FREE CONTROL CANTELOUPE				0	0	0	0	0
WEED FREE CONTROL PICKLE				0	0	0	0	0
WEED FREE CONTROL PUMPKIN				0	0	0	0	0
DUAL MAGNUM CANTELOUPE	1	PT/A	PRE	90				
DUAL MAGNUM PICKLE	1	PT/A	PRE	95				
DUAL MAGNUM PUMPKIN	1	PT/A	PRE	88				
CURBIT CANTELOUPE	2	PT/A	PRE	0				
CURBIT PICKLE	2	PT/A	PRE	0				
CURBIT PUMPKIN	2	PT/A	PRE	0				
SANDEA CANTELOUPE	0.66	OZ/A	PRE	93				
SANDEA PICKLE	0.66	OZ/A	PRE	90				

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				CYPES				AGRASS
Crop Code				CUMSA				CUMSA
Part Rated				WEED	PLANT	PLANT	PLANT	WEED
Rating Data Type				CONTROL	STUNT	LEAF CURL	CHLOROSIS	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/31/2006	8/7/2006	8/7/2006	8/7/2006	8/7/2006
Trt-Eval Interval				3 WAT	1 WAT	1 WAT	1 WAT	1 WAT
Spray Timing				PRE	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17
SANDEA PUMPKIN	0.66	OZ/A	PRE	92				
COMMAND CANTELOUPE	1.33	PT/A	PRE	0				
COMMAND PICKLE	1.33	PT/A	PRE	0				
COMMAND PUMPKIN	1.33	PT/A	PRE	0				
MATRIX+	1.6	OZ/A	PRE	78				
NIS	0.5	PT/A	PRE					
CANTELOUPE								
MATRIX+	1.6	OZ/A	PRE	78				
NIS	0.5	PT/A	PRE					
PICKLE								
MATRIX+	1.6	OZ/A	PRE	78				
NIS	0.5	PT/A	PRE					
PUMPKIN								
FLEXSTAR CANTELOUPE	24	OZ/A	PRE	40				
FLEXSTAR PICKLE	24	OZ/A	PRE	43				
FLEXSTAR PUMPKIN	24	OZ/A	PRE	43				
SANDEA	0.66	OZ/A	POST		18	14	3	0
NIS	0.5	PT/A	POST					
CANTELOUPE								
SANDEA	0.66	OZ/A	POST		18	3	6	0
NIS	0.5	PT/A	POST					
PICKLE								

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				CYPES				AGRASS
Crop Code				CUMSA				CUMSA
Part Rated				WEED	PLANT	PLANT	PLANT	WEED
Rating Data Type				CONTROL	STUNT	LEAF CURL	CHLOROSIS	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/31/2006	8/7/2006	8/7/2006	8/7/2006	8/7/2006
Trt-Eval Interval				3 WAT	1 WAT	1 WAT	1 WAT	1 WAT
Spray Timing				PRE	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17
SANDEA	0.66	OZ/A	POST		33	19	16	0
NIS	0.5	PT/A	POST					
PUMPKIN								
DUAL MAGNUM	1	PT/A	POST		4	0	0	0
DUAL MAGNUM	1	PT/A	POST		4	0	30	0
PICKLE								
DUAL MAGNUM	1	PT/A	POST		0	0	0	0
PUMPKIN								
LSD (P=.05)				19	12	3	6	0
Standard Deviation				13.6	8.2	1.7	3.5	0
CV				36.24	131.5	58.43	77.14	0

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				STEME	TAROF	CHEAL	AMAXX	POLPY
Crop Code				CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/7/2006	8/7/2006	8/7/2006	8/7/2006	8/7/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	1 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	18	19	20	21	22
WEEDY CONTROL CANTELOUPE				0	0	0	0	0
WEEDY CONTROL PICKLE				0	0	0	0	0
WEEDY CONTROL PUMPKIN				0	0	0	0	0
WEED FREE CONTROL CANTELOUPE				0	0	0	0	0
WEED FREE CONTROL PICKLE				0	0	0	0	0
WEED FREE CONTROL PUMPKIN				0	0	0	0	0
DUAL MAGNUM CANTELOUPE	1	PT/A	PRE					
DUAL MAGNUM PICKLE	1	PT/A	PRE					
DUAL MAGNUM PUMPKIN	1	PT/A	PRE					
CURBIT CANTELOUPE	2	PT/A	PRE					
CURBIT PICKLE	2	PT/A	PRE					
CURBIT PUMPKIN	2	PT/A	PRE					
SANDEA CANTELOUPE	0.66	OZ/A	PRE					
SANDEA PICKLE	0.66	OZ/A	PRE					

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				STEME	TAROF	CHEAL	AMAXX	POLPY
Crop Code				CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/7/2006	8/7/2006	8/7/2006	8/7/2006	8/7/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	1 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	18	19	20	21	22
SANDEA	0.66	OZ/A	PRE					
PUMPKIN								
COMMAND	1.33	PT/A	PRE					
CANTELOUPE								
COMMAND	1.33	PT/A	PRE					
PICKLE								
COMMAND	1.33	PT/A	PRE					
PUMPKIN								
MATRIX+	1.6	OZ/A	PRE					
NIS	0.5	PT/A	PRE					
CANTELOUPE								
MATRIX+	1.6	OZ/A	PRE					
NIS	0.5	PT/A	PRE					
PICKLE								
MATRIX+	1.6	OZ/A	PRE					
NIS	0.5	PT/A	PRE					
PUMPKIN								
FLEXSTAR	24	OZ/A	PRE					
CANTELOUPE								
FLEXSTAR	24	OZ/A	PRE					
PICKLE								
FLEXSTAR	24	OZ/A	PRE					
PUMPKIN								
SANDEA	0.66	OZ/A	POST	30	0	21	0	99
NIS	0.5	PT/A	POST					
CANTELOUPE								
SANDEA	0.66	OZ/A	POST	30	0	21	0	99
NIS	0.5	PT/A	POST					
PICKLE								

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				STEME	TAROF	CHEAL	AMAXX	POLPY
Crop Code				CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/7/2006	8/7/2006	8/7/2006	8/7/2006	8/7/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	1 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	18	19	20	21	22
SANDEA	0.66	OZ/A	POST	30	0	19	0	99
NIS	0.5	PT/A	POST					
PUMPKIN								
DUAL MAGNUM	1	PT/A	POST	0	0	0	0	0
DUAL MAGNUM	1	PT/A	POST	0	0	0	0	0
PICKLE								
DUAL MAGNUM	1	PT/A	POST	0	0	0	0	0
PUMPKIN								
LSD (P=.05)				31	0	4	0	0
Standard Deviation				21.3	0	2.5	0	0
CV				286.53	0	48.79	0	0

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				CYPES				AGRASS
Crop Code				CUMSA				CUMSA
Part Rated				WEED	PLANT	PLANT	PLANT	WEED
Rating Data Type				CONTROL	STUNT	LEAF CURL	CHLOROSIS	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/7/2006	8/21/2006	8/21/2006	8/21/2006	8/21/2006
Trt-Eval Interval				1 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	23	24	25	26	27
WEEDY CONTROL CANTELOUPE				0	0	0	0	0
WEEDY CONTROL PICKLE				0	0	0	0	0
WEEDY CONTROL PUMPKIN				0	0	0	0	0
WEED FREE CONTROL CANTELOUPE				0	0	0	0	0
WEED FREE CONTROL PICKLE				0	0	0	0	0
WEED FREE CONTROL PUMPKIN				0	0	0	0	0
DUAL MAGNUM CANTELOUPE	1	PT/A	PRE					
DUAL MAGNUM PICKLE	1	PT/A	PRE					
DUAL MAGNUM PUMPKIN	1	PT/A	PRE					
CURBIT CANTELOUPE	2	PT/A	PRE					
CURBIT PICKLE	2	PT/A	PRE					
CURBIT PUMPKIN	2	PT/A	PRE					
SANDEA CANTELOUPE	0.66	OZ/A	PRE					
SANDEA PICKLE	0.66	OZ/A	PRE					

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				CYPES				AGRASS
Crop Code				CUMSA				CUMSA
Part Rated				WEED	PLANT	PLANT	PLANT	WEED
Rating Data Type				CONTROL	STUNT	LEAF CURL	CHLOROSIS	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/7/2006	8/21/2006	8/21/2006	8/21/2006	8/21/2006
Trt-Eval Interval				1 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	23	24	25	26	27
SANDEA	0.66	OZ/A	PRE					
PUMPKIN								
COMMAND	1.33	PT/A	PRE					
CANTELOUPE								
COMMAND	1.33	PT/A	PRE					
PICKLE								
COMMAND	1.33	PT/A	PRE					
PUMPKIN								
MATRIX+	1.6	OZ/A	PRE					
NIS	0.5	PT/A	PRE					
CANTELOUPE								
MATRIX+	1.6	OZ/A	PRE					
NIS	0.5	PT/A	PRE					
PICKLE								
MATRIX+	1.6	OZ/A	PRE					
NIS	0.5	PT/A	PRE					
PUMPKIN								
FLEXSTAR	24	OZ/A	PRE					
CANTELOUPE								
FLEXSTAR	24	OZ/A	PRE					
PICKLE								
FLEXSTAR	24	OZ/A	PRE					
PUMPKIN								
SANDEA	0.66	OZ/A	POST	71	8	0	0	21
NIS	0.5	PT/A	POST					
CANTELOUPE								
SANDEA	0.66	OZ/A	POST	55	9	0	0	21
NIS	0.5	PT/A	POST					
PICKLE								

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				CYPES				AGRASS
Crop Code				CUMSA				CUMSA
Part Rated				WEED	PLANT	PLANT	PLANT	WEED
Rating Data Type				CONTROL	STUNT	LEAF CURL	CHLOROSIS	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/7/2006	8/21/2006	8/21/2006	8/21/2006	8/21/2006
Trt-Eval Interval				1 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	23	24	25	26	27
SANDEA	0.66	OZ/A	POST	55	19	0	3	21
NIS	0.5	PT/A	POST					
PUMPKIN								
DUAL MAGNUM	1	PT/A	POST	0	6	0	0	25
DUAL MAGNUM	1	PT/A	POST	0	14	0	0	25
PICKLE								
DUAL MAGNUM	1	PT/A	POST	0	4	0	0	25
PUMPKIN								
LSD (P=.05)				18	9	0	2	45
Standard Deviation				12.5	6.2	0	1.4	31.1
CV				82.91	127.61	0	692.82	270.3

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	28	29	30	31	32
Weed Code				STEME	TAROF	CHEAL	AMAXX	POLPY
Crop Code				CUMSA	CAPBP	CUMSA	CUMSA	CUMSA
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/21/2006	8/21/2006	8/21/2006	8/21/2006	8/21/2006
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				POST	POST	POST	POST	POST
WEEDY CONTROL CANTELOUPE				0	0	0	0	0
WEEDY CONTROL PICKLE				0	0	0	0	0
WEEDY CONTROL PUMPKIN				0	0	0	0	0
WEED FREE CONTROL CANTELOUPE				0	0	0	0	0
WEED FREE CONTROL PICKLE				0	0	0	0	0
WEED FREE CONTROL PUMPKIN				0	0	0	0	0
DUAL MAGNUM CANTELOUPE	1	PT/A	PRE					
DUAL MAGNUM PICKLE	1	PT/A	PRE					
DUAL MAGNUM PUMPKIN	1	PT/A	PRE					
CURBIT CANTELOUPE	2	PT/A	PRE					
CURBIT PICKLE	2	PT/A	PRE					
CURBIT PUMPKIN	2	PT/A	PRE					
SANDEA CANTELOUPE	0.66	OZ/A	PRE					
SANDEA PICKLE	0.66	OZ/A	PRE					

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				STEME	TAROF	CHEAL	AMAXX	POLPY
Crop Code				CUMSA	CAPBP	CUMSA	CUMSA	CUMSA
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/21/2006	8/21/2006	8/21/2006	8/21/2006	8/21/2006
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	28	29	30	31	32
SANDEA	0.66	OZ/A	PRE					
PUMPKIN								
COMMAND	1.33	PT/A	PRE					
CANTELOUPE								
COMMAND	1.33	PT/A	PRE					
PICKLE								
COMMAND	1.33	PT/A	PRE					
PUMPKIN								
MATRIX+	1.6	OZ/A	PRE					
NIS	0.5	PT/A	PRE					
CANTELOUPE								
MATRIX+	1.6	OZ/A	PRE					
NIS	0.5	PT/A	PRE					
PICKLE								
MATRIX+	1.6	OZ/A	PRE					
NIS	0.5	PT/A	PRE					
PUMPKIN								
FLEXSTAR	24	OZ/A	PRE					
CANTELOUPE								
FLEXSTAR	24	OZ/A	PRE					
PICKLE								
FLEXSTAR	24	OZ/A	PRE					
PUMPKIN								
SANDEA	0.66	OZ/A	POST	92	50	4	13	89
NIS	0.5	PT/A	POST					
CANTELOUPE								
SANDEA	0.66	OZ/A	POST	92	50	4	13	89
NIS	0.5	PT/A	POST					
PICKLE								

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				STEME	TAROF	CHEAL	AMAXX	POLPY
Crop Code				CUMSA	CAPBP	CUMSA	CUMSA	CUMSA
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/21/2006	8/21/2006	8/21/2006	8/21/2006	8/21/2006
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	28	29	30	31	32
SANDEA	0.66	OZ/A	POST	92	50	4	13	89
NIS	0.5	PT/A	POST					
PUMPKIN								
DUAL MAGNUM	1	PT/A	POST	74	25	0	0	25
DUAL MAGNUM	1	PT/A	POST	74	25	0	0	25
PICKLE								
DUAL MAGNUM	1	PT/A	POST	74	25	0	0	25
PUMPKIN								
LSD (P=.05)				31	54	5	16	33
Standard Deviation				21.1	37.3	3.4	11.3	23.1
CV				50.91	201.01	361.81	361.81	81.17

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	33	34	35	36	39
Weed Code				CYPES				
Crop Code				CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated				WEED	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				CONTROL	# PLANTS	MKTB # <4"	MKTB WT <4"	IMMAT #
Rating Unit				%	PER PLOT	PER PLOT	LB/PLOT	PER PLOT
Rating Date				8/21/2006	9/7/2006	9/7/2006	9/7/2006	9/7/2006
Trt-Eval Interval				3 WAT	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing				POST				
WEEDY CONTROL CANTELOUPE				0				
WEEDY CONTROL PICKLE				0	4	6	0.2	7
WEEDY CONTROL PUMPKIN				0				
WEED FREE CONTROL CANTELOUPE				0				
WEED FREE CONTROL PICKLE				0	3	2	0.2	5
WEED FREE CONTROL PUMPKIN				0				
DUAL MAGNUM CANTELOUPE	1	PT/A	PRE					
DUAL MAGNUM PICKLE	1	PT/A	PRE		3	3	0.2	6
DUAL MAGNUM PUMPKIN	1	PT/A	PRE					
CURBIT CANTELOUPE	2	PT/A	PRE					
CURBIT PICKLE	2	PT/A	PRE		4	4	0.3	8
CURBIT PUMPKIN	2	PT/A	PRE					
SANDEA CANTELOUPE	0.66	OZ/A	PRE					
SANDEA PICKLE	0.66	OZ/A	PRE		4	4	0.1	6

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				CYPES				
Crop Code				CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated				WEED	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				CONTROL	# PLANTS	MKTB # <4"	MKTB WT <4"	IMMAT #
Rating Unit				%	PER PLOT	PER PLOT	LB/PLOT	PER PLOT
Rating Date				8/21/2006	9/7/2006	9/7/2006	9/7/2006	9/7/2006
Trt-Eval Interval				3 WAT	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing				POST				
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	33	34	35	36	39
SANDEA	0.66	OZ/A	PRE					
PUMPKIN								
COMMAND	1.33	PT/A	PRE					
CANTELOUPE								
COMMAND	1.33	PT/A	PRE		3	5	0.2	6
PICKLE								
COMMAND	1.33	PT/A	PRE					
PUMPKIN								
MATRIX+	1.6	OZ/A	PRE					
NIS	0.5	PT/A	PRE					
CANTELOUPE								
MATRIX+	1.6	OZ/A	PRE		4	5	0.3	6
NIS	0.5	PT/A	PRE					
PICKLE								
MATRIX+	1.6	OZ/A	PRE					
NIS	0.5	PT/A	PRE					
PUMPKIN								
FLEXSTAR	24	OZ/A	PRE					
CANTELOUPE								
FLEXSTAR	24	OZ/A	PRE		3	3	0.1	5
PICKLE								
FLEXSTAR	24	OZ/A	PRE					
PUMPKIN								
SANDEA	0.66	OZ/A	POST	99				
NIS	0.5	PT/A	POST					
CANTELOUPE								
SANDEA	0.66	OZ/A	POST	99	4	6	0.2	9
NIS	0.5	PT/A	POST					
PICKLE								

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				CYPES				
Crop Code				CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated				WEED	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				CONTROL	# PLANTS	MKTB # <4"	MKTB WT <4"	IMMAT #
Rating Unit				%	PER PLOT	PER PLOT	LB/PLOT	PER PLOT
Rating Date				8/21/2006	9/7/2006	9/7/2006	9/7/2006	9/7/2006
Trt-Eval Interval				3 WAT	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing				POST				
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	33	34	35	36	39
SANDEA	0.66	OZ/A	POST	99				
NIS	0.5	PT/A	POST					
PUMPKIN								
DUAL MAGNUM	1	PT/A	POST	0				
DUAL MAGNUM	1	PT/A	POST	0	4	4	0.3	6
PICKLE								
DUAL MAGNUM	1	PT/A	POST	0				
PUMPKIN								
LSD (P=.05)				0	2	4	0.2	6
Standard Deviation				0	1.2	2.5	0.15	4
CV				0	33.69	61.99	75.43	64.72

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code									
Crop Code				CUMSA	CUMHY	CUMHY	CUMHY	CUMHY	CUMHY
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				IMMAT WT	# PLANTS	MKTB #	MKTB WT	IMMAT #	IMMAT WT
Rating Unit				LB/PLOT	PER PLOT	PER PLOT	LB/PLOT	PER PLOT	LB/PLOT
Rating Date				9/7/2006	9/22/2006	9/22/2006	9/22/2006	9/22/2006	9/22/2006
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing									
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	40	41	42	43	44	45
WEEDY CONTROL CANTELOUPE					5	0	0	4	2.3
WEEDY CONTROL PICKLE				0.1					
WEEDY CONTROL PUMPKIN									
WEED FREE CONTROL CANTELOUPE					5	2	2	2	0.6
WEED FREE CONTROL PICKLE				0.1					
WEED FREE CONTROL PUMPKIN									
DUAL MAGNUM CANTELOUPE	1	PT/A	PRE		3	0	0	2	0.6
DUAL MAGNUM PICKLE	1	PT/A	PRE	0.1					
DUAL MAGNUM PUMPKIN	1	PT/A	PRE						
CURBIT CANTELOUPE	2	PT/A	PRE		6	2	2.4	4	2.9
CURBIT PICKLE	2	PT/A	PRE	0.1					
CURBIT PUMPKIN	2	PT/A	PRE						
SANDEA CANTELOUPE	0.66	OZ/A	PRE		6	1	1.1	3	1.6
SANDEA PICKLE	0.66	OZ/A	PRE	0.1					

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code									
Crop Code				CUMSA	CUMHY	CUMHY	CUMHY	CUMHY	CUMHY
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				IMMAT WT	# PLANTS	MKTB #	MKTB WT	IMMAT #	IMMAT WT
Rating Unit				LB/PLOT	PER PLOT	PER PLOT	LB/PLOT	PER PLOT	LB/PLOT
Rating Date				9/7/2006	9/22/2006	9/22/2006	9/22/2006	9/22/2006	9/22/2006
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing									
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	40	41	42	43	44	45
SANDEA	0.66	OZ/A	PRE						
PUMPKIN									
COMMAND	1.33	PT/A	PRE		6	1	0.6	6	3
CANTELOUPE									
COMMAND	1.33	PT/A	PRE	0.1					
PICKLE									
COMMAND	1.33	PT/A	PRE						
PUMPKIN									
MATRIX+	1.6	OZ/A	PRE		6	0	0	2	1.1
NIS	0.5	PT/A	PRE						
CANTELOUPE									
MATRIX+	1.6	OZ/A	PRE	0.1					
NIS	0.5	PT/A	PRE						
PICKLE									
MATRIX+	1.6	OZ/A	PRE						
NIS	0.5	PT/A	PRE						
PUMPKIN									
FLEXSTAR	24	OZ/A	PRE		5	1	1.3	2	1.8
CANTELOUPE									
FLEXSTAR	24	OZ/A	PRE	0.1					
PICKLE									
FLEXSTAR	24	OZ/A	PRE						
PUMPKIN									
SANDEA	0.66	OZ/A	POST		6	1	1	5	2.8
NIS	0.5	PT/A	POST						
CANTELOUPE									
SANDEA	0.66	OZ/A	POST	0.1					
NIS	0.5	PT/A	POST						
PICKLE									

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code									
Crop Code				CUMSA	CUMHY	CUMHY	CUMHY	CUMHY	CUMHY
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				IMMAT WT	# PLANTS	MKTB #	MKTB WT	IMMAT #	IMMAT WT
Rating Unit				LB/PLOT	PER PLOT	PER PLOT	LB/PLOT	PER PLOT	LB/PLOT
Rating Date				9/7/2006	9/22/2006	9/22/2006	9/22/2006	9/22/2006	9/22/2006
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing									
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	40	41	42	43	44	45
SANDEA	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
PUMPKIN									
DUAL MAGNUM	1	PT/A	POST		6	0	0.6	5	3.6
DUAL MAGNUM	1	PT/A	POST	0.2					
PICKLE									
DUAL MAGNUM	1	PT/A	POST						
PUMPKIN									
LSD (P=.05)				0.07	3	2	3	3	2
Standard Deviation				0.05	1.8	1.3	1.89	1.9	1.42
CV				45.96	34.22	218.9	209.71	54.12	69.61

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	46	47	48	49	50
Weed Code								
Crop Code				CUUPE	CUUPE	CUUPE	CUUPE	CUUPE
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				# PLANTS	MKTB #	MKTB WT	IMMAT #	IMMAT WT
Rating Unit				PER PLOT	PER PLOT	LB/PLOT	PER PLOT	LB/PLOT
Rating Date				10/18/2006	10/18/2006	10/18/2006	10/18/2006	10/18/2006
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing								
WEEDY CONTROL CANTELOUPE								
WEEDY CONTROL PICKLE								
WEEDY CONTROL PUMPKIN				4	5	28.9	2	3.9
WEED FREE CONTROL CANTELOUPE								
WEED FREE CONTROL PICKLE								
WEED FREE CONTROL PUMPKIN				4	4	18.5	0	0
DUAL MAGNUM CANTELOUPE	1	PT/A	PRE					
DUAL MAGNUM PICKLE	1	PT/A	PRE					
DUAL MAGNUM PUMPKIN	1	PT/A	PRE	4	6	31.6	1	1.6
CURBIT CANTELOUPE	2	PT/A	PRE					
CURBIT PICKLE	2	PT/A	PRE					
CURBIT PUMPKIN	2	PT/A	PRE	4	6	32.7	1	1.1
SANDEA CANTELOUPE	0.66	OZ/A	PRE					
SANDEA PICKLE	0.66	OZ/A	PRE					

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				CUUPE	CUUPE	CUUPE	CUUPE	CUUPE
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				# PLANTS	MKTB #	MKTB WT	IMMAT #	IMMAT WT
Rating Unit				PER PLOT	PER PLOT	LB/PLOT	PER PLOT	LB/PLOT
Rating Date				10/18/2006	10/18/2006	10/18/2006	10/18/2006	10/18/2006
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing								
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	46	47	48	49	50
SANDEA	0.66	OZ/A	PRE	4	5	26.1	2	2.9
PUMPKIN								
COMMAND	1.33	PT/A	PRE					
CANTELOUPE								
COMMAND	1.33	PT/A	PRE					
PICKLE								
COMMAND	1.33	PT/A	PRE	4	6	32.7	1	0.8
PUMPKIN								
MATRIX+	1.6	OZ/A	PRE					
NIS	0.5	PT/A	PRE					
CANTELOUPE								
MATRIX+	1.6	OZ/A	PRE					
NIS	0.5	PT/A	PRE					
PICKLE								
MATRIX+	1.6	OZ/A	PRE	4	6	32.2	1	2.3
NIS	0.5	PT/A	PRE					
PUMPKIN								
FLEXSTAR	24	OZ/A	PRE					
CANTELOUPE								
FLEXSTAR	24	OZ/A	PRE					
PICKLE								
FLEXSTAR	24	OZ/A	PRE	3	7	40.4	2	5.1
PUMPKIN								
SANDEA	0.66	OZ/A	POST					
NIS	0.5	PT/A	POST					
CANTELOUPE								
SANDEA	0.66	OZ/A	POST					
NIS	0.5	PT/A	POST					
PICKLE								

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

Trial ID: VINECROPSW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				CUUPE	CUUPE	CUUPE	CUUPE	CUUPE
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				# PLANTS	MKTB #	MKTB WT	IMMAT #	IMMAT WT
Rating Unit				PER PLOT	PER PLOT	LB/PLOT	PER PLOT	LB/PLOT
Rating Date				10/18/2006	10/18/2006	10/18/2006	10/18/2006	10/18/2006
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing								
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	46	47	48	49	50
SANDEA	0.66	OZ/A	POST	4	8	36	0	0
NIS	0.5	PT/A	POST					
PUMPKIN								
DUAL MAGNUM	1	PT/A	POST					
DUAL MAGNUM	1	PT/A	POST					
PICKLE								
DUAL MAGNUM	1	PT/A	POST	4	6	33.3	0	0.8
PUMPKIN								
LSD (P=.05)				1	4	24	2	4
Standard Deviation				0.8	2.8	16.5	1.3	2.75
CV				21.89	48.92	52.82	141.84	149.7

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GRAPES - CHATEAU HERBICIDE COMBINATIONS IN CONCORD GRAPES

Trial ID: GRAPECHATW 2006
Location: Wooster, Ohio

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

TRIAL LOCATION

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

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 05/25/06
Planned Completion Date: 10/30/06

Objective: To evaluate Chateau tank-mixes with pendimethalin and diuron for increased preemergence control of difficult to control weeds.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	ACCVI	Virginia copperleaf	*Acalypha virginica L.*
2	AGRASS	annual grasses (various)	*Panicum spp.and Digitaria spp.*
3	ASTPI	white heath aster	*Aster pilosus Willd.*
4	CAGSE	hedge bindweed	*Calystegia sepium (L.) R. Br.*
5	CERVU	mouseear chickweed	*Cerastium vulgatum L.*
6	CYPES	yellow nutsedge	*Cyperus esculentes L.*
7	DAUCA	wild carrot	*Daucus carota L.*
8	DIGSA	large crabgrass	*Digitaria sanguinalis (L.) Scop.*
9	LEPVI	Virginia pepperweed	*Lepidium virginicum L.*
10	MORAL	white mulberry	*Morus alba L.*
11	MUHFR	wirestem muhly	*Muhlenbergia frondosa (Poir.) Fern*
12	MUHSC	nimblewill	*Muhlenbergia schreberi J. F. Gmel.*
13	OXAST	yellow woodsorrel	*Oxalis stricta L.*
14	PLALA	buckhorn plantain	*Plantago lanceolata L.*
15	POLPY	Pennsylvania smartweed	*Polygonum pensylvanicum L.*
16	PRTQU	Virginia - creeper	*Parthenocissus quinquefolia (L.) Planch.*
17	RUBFR	bramble	*Rubus fruticosis L.*
18	SETFA	giant foxtail	*Setaria faberi Herrm.*
19	SOLPT	Eastern black nightshade	*Solanum ptycanthum Dun.*
20	SOOCA	Canada goldenrod	*Solidago canadensis L.*
21	TAROF	dandelion	*Taraxacum officinale Weber in Wigger*
22	TOXRA	poison-ivy	*Toxicodendron radicans (L.) Ktze.*
23	TRFPR	red clover	*Trifolium pratense L.*
24	TRFRE	white clover	*Trifolium repens L.*
25	URTDI	stinging nettle	*Urtica dioica L.*

Crop 1: VITLA GRAPE
Planting Date: 05/15/81
Rate: 544 VINES/ACRE
Row Spacing: 10 FT

Variety: CONCORD
Planting Method: CONVENTIONAL
Perennial Age: 25 + YEARS
Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 4 FT
Site Type: HILLSIDE
Tillage Type: NONE

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

SOIL DESCRIPTION

% Sand: 16
% Silt: 70
% Clay: 12

% OM: 2.0
pH: 6.0
CEC: 14

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

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GRAPES - CHATEAU HERBICIDE COMBINATIONS IN CONCORD GRAPES

Trial ID: GRAPECHATW 2006 | Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio | Investigator: Doug Doohan

APPLICATION DESCRIPTION

	A
Application Date:	5/25/2006
Time of Day:	10AM -1PM
Application Method:	SPRAY
Application Timing:	POST
Applic. Placement:	DIRECTED
Air Temp., Unit:	71.4 F
% Relative Humidity:	79
Wind Velocity, Unit:	2 SW
% Cloud Cover:	100

CROP STAGE AT EACH APPLICATION

	A	
Crop 1 Code, Stage:	VITLA	POST
Stage Scale:	PRE-BLOOM	
Height, Unit:	6 FT	

WEED STAGE AT EACH APPLICATION

	A	
Weed 1 Code, Stage:	ACCVI	POST
Stage Scale:	.	
Density, Unit:	.	
Weed 2 Code, Stage:	AGRASS	POST
Stage Scale:	.	
Density, Unit:	.	
Weed 3 Code, Stage:	ASTPI	POST
Stage Scale:	22 IN	
Density, Unit:	MEDIUM	PLOT
Weed 4 Code, Stage:	CAGSE	POST
Stage Scale:	.	
Density, Unit:	.	
Weed 5 Code, Stage:	CERVU	POST
Stage Scale:	BLOOM	
Density, Unit:	HIGH	PLOT
Weed 6 Code, Stage:	CYPES	POST
Stage Scale:	.	
Density, Unit:	.	
Weed 7 Code, Stage:	DAUCA	POST
Stage Scale:	14 IN	
Density, Unit:	LOW	PLOT
Weed 8 Code, Stage:	DIGSA	POST
Stage Scale:	.	
Density, Unit:	. .	
Weed 9 Code, Stage:	LEPVI	POST
Stage Scale:	.	
Density, Unit:	. .	
Weed10 Code, Stage:	MORAL	POST
Stage Scale:	.	
Density, Unit:	. .	
Weed11 Code, Stage:	MUHFR	POST
Stage Scale:	.	
Density, Unit:	. .	
Weed12 Code, Stage:	MUHSC	POST
Stage Scale:	.	
Density, Unit:	. .	

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GRAPES - CHATEAU HERBICIDE COMBINATIONS IN CONCORD GRAPES

Trial ID: GRAPECHATW 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

Weed13 Code, Stage:	OXAST	POST
Stage Scale:	6 IN	
Density, Unit:	MEDIUM	PLOT
Weed14 Code, Stage:	PLALA	POST
Stage Scale:	15" DIAM	
Density, Unit:	MEDIUM	PLOT
Weed15 Code, Stage:	POLPY	POST
Stage Scale:	.	
Density, Unit:	. .	
Weed16 Code, Stage:	PRTQU	POST
Stage Scale:	.	
Density, Unit:	.	
Weed17 Code, Stage:	RUBFR	POST
Stage Scale:	12 IN	
Density, Unit:	LOW	PLOT
Weed18 Code, Stage:	SETFA	POST
Stage Scale:	.	
Density, Unit:	. .	
Weed19 Code, Stage:	SOLPT	POST
Stage Scale:	.	
Density, Unit:	. .	
Weed20 Code, Stage:	SOOCA	POST
Stage Scale:	.	
Density, Unit:	.	
Weed21 Code, Stage:	TAROF	POST
Stage Scale:	10 LF	
Density, Unit:	MEDIUM	PLOT
Weed22 Code, Stage:	TOXRA	POST
Stage Scale:	7 IN	
Density, Unit:	MEDIUM	PLOT
Weed23 Code, Stage:	TRFPR	POST
Stage Scale:	7 IN	
Density, Unit:	HIGH	PLOT
Weed24 Code, Stage:	TRFRE	POST
Stage Scale:	BLOOM	
Density, Unit:	HIGH	PLOT
Weed25 Code, Stage:	URTDI	POST
Stage Scale:	15 IN	
Density, Unit:	LOW	PLOT

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	35
Nozzle Type:	FLAT FAN
Nozzle Size:	8003 EVS
Nozzles/Row:	1
Band Width, Unit:	30 IN
Boom Height, Unit:	18 IN
Ground Speed, Unit:	2.5 MPH
Spray Volume, Unit:	25 GPA

Trial Comments:

The applications were intended for pre fruit set. We had a late spring killing frost which eliminated the fruit so we correlated the applications to weed height instead.
In the Trt-Eval Interval, " DAT" refers to days after treatment.

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GRAPES - CHATEAU HERBICIDE COMBINATIONS
IN CONCORD GRAPES

Trial ID: GRAPECHATW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					AGRASS	ASTPI	CERVU	RUBFR	PLALA
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				PLANT	WEED	WEED	WEED	WEED	WEED
Rating Data Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/26/2006	6/26/2006	6/26/2006	6/26/2006	6/26/2006	6/26/2006
Trt-Eval Interval				30 DAT	30 DAT	30 DAT	30 DAT	30 DAT	30 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
UNTREATED CONTROL				0	0	0	0	0	0
CHATEAU+	11.8	OZ/A	POST	0	92	98	99	99	99
ROUNDUP	3	QT/A	POST						
PROWL+	2.42	QT/A	POST	0	93	96	99	97	99
ROUNDUP	3	QT/A	POST						
V-10142+	10.7	OZ/A	POST	0	86	99	99	98	99
ROUNDUP	3	QT/A	POST						
V-10142+	21.3	OZ/A	POST	0	86	96	99	90	99
ROUNDUP	3	QT/A	POST						
SURFLAN+	3	QT/A	POST	0	88	96	99	99	99
ROUNDUP	3	QT/A	POST						
SIMAZINE+	2	QT/A	POST	0	60	96	99	99	99
ROUNDUP	3	QT/A	POST						
DIURON+	0.1	QT/A	POST	0	65	99	99	99	99
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	0	87	97	99	99	99
PROWL	2.42	QT/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	0	96	99	99	99	99
V-10142+	10.7	OZ/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	0	99	98	99	99	99
V-10142+	21.3	OZ/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	0	97	99	99	99	99
SURFLAN+	3	QT/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	0	94	99	99	99	99
SIMAZINE+	2	QT/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	0	93	96	99	99	99
DIURON+	0.1	QT/A	POST						
ROUNDUP	3	QT/A	POST						
LSD (P=.05)				0	15	6	0	3	0
Standard Deviation				0	10.7	4	0	2.3	0
CV				0	13.16	4.4	0	2.5	0

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GRAPES - CHATEAU HERBICIDE COMBINATIONS
IN CONCORD GRAPES

Trial ID: GRAPECHATW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				TRFPR	TRFRE	TAROF	SOOCA	MORAL	OXAST
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/26/2006	6/26/2006	6/26/2006	6/26/2006	6/26/2006	6/26/2006
Trt-Eval Interval				30 DAT	30 DAT	30 DAT	30 DAT	30 DAT	30 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
UNTREATED CONTROL				0	0	0	0	0	0
CHATEAU+	11.8	OZ/A	POST	97	89	96	99	99	99
ROUNDUP	3	QT/A	POST						
PROWL+	2.42	QT/A	POST	95	87	92	99	99	99
ROUNDUP	3	QT/A	POST						
V-10142+	10.7	OZ/A	POST	73	85	85	99	99	99
ROUNDUP	3	QT/A	POST						
V-10142+	21.3	OZ/A	POST	90	85	94	99	50	99
ROUNDUP	3	QT/A	POST						
SURFLAN+	3	QT/A	POST	93	85	93	99	99	99
ROUNDUP	3	QT/A	POST						
SIMAZINE+	2	QT/A	POST	90	77	70	99	74	99
ROUNDUP	3	QT/A	POST						
DIURON+	0.1	QT/A	POST	85	74	59	99	74	99
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	91	71	95	99	99	99
PROWL	2.42	QT/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	94	94	97	98	99	99
V-10142+	10.7	OZ/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	96	90	98	98	99	99
V-10142+	21.3	OZ/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	93	94	91	99	74	99
SURFLAN+	3	QT/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	99	88	93	99	74	99
SIMAZINE+	2	QT/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	88	79	76	98	99	99
DIURON+	0.1	QT/A	POST						
ROUNDUP	3	QT/A	POST						
LSD (P=.05)				15	18	13	1	43	0
Standard Deviation				10.7	12.5	9.2	0.9	30.3	0
CV				12.71	15.98	11.32	1	37.21	0

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Trial ID: GRAPECHATW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				DAUCA	TOXRA	PRTQU	MUHFR	CYPES	
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit				%	%	%	%	%	%
Rating Date				6/26/2006	6/26/2006	6/26/2006	6/26/2006	6/26/2006	7/26/2006
Trt-Eval Interval				30 DAT	30 DAT	30 DAT	30 DAT	30 DAT	60 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17	18
UNTREATED CONTROL				0	0	0	0	0	0
CHATEAU+	11.8	OZ/A	POST	88	99	99	97	74	0
ROUNDUP	3	QT/A	POST						
PROWL+	2.42	QT/A	POST	97	99	74	93	99	0
ROUNDUP	3	QT/A	POST						
V-10142+	10.7	OZ/A	POST	99	99	50	80	99	0
ROUNDUP	3	QT/A	POST						
V-10142+	21.3	OZ/A	POST	99	99	92	87	99	0
ROUNDUP	3	QT/A	POST						
SURFLAN+	3	QT/A	POST	96	99	74	92	74	0
ROUNDUP	3	QT/A	POST						
SIMAZINE+	2	QT/A	POST	97	99	99	86	99	0
ROUNDUP	3	QT/A	POST						
DIURON+	0.1	QT/A	POST	87	74	74	63	99	0
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	97	74	50	89	99	0
PROWL	2.42	QT/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	99	99	74	91	99	0
V-10142+	10.7	OZ/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	99	99	99	93	99	0
V-10142+	21.3	OZ/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	93	99	74	85	99	0
SURFLAN+	3	QT/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	83	99	99	92	99	0
SIMAZINE+	2	QT/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	87	74	97	59	99	0
DIURON+	0.1	QT/A	POST						
ROUNDUP	3	QT/A	POST						
LSD (P=.05)				16	33	53	21	27	0
Standard Deviation				11.2	22.7	36.7	14.7	18.9	0
CV				12.9	26.22	48.73	18.63	21.44	0

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Trial ID: GRAPECHATW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				ASTPI	CAGSE	SOLPT	RUBFR	PLALA	CERVU
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/26/2006	7/26/2006	7/26/2006	7/26/2006	7/26/2006	7/26/2006
Trt-Eval Interval				60 DAT	60 DAT	60 DAT	60 DAT	60 DAT	60 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19	20	21	22	23	24
UNTREATED CONTROL				0	0	0	0	0	0
CHATEAU+	11.8	OZ/A	POST	97	99	99	99	99	99
ROUNDUP	3	QT/A	POST						
PROWL+	2.42	QT/A	POST	99	74	99	99	99	99
ROUNDUP	3	QT/A	POST						
V-10142+	10.7	OZ/A	POST	99	96	74	94	99	99
ROUNDUP	3	QT/A	POST						
V-10142+	21.3	OZ/A	POST	99	99	50	91	99	99
ROUNDUP	3	QT/A	POST						
SURFLAN+	3	QT/A	POST	99	99	99	99	99	99
ROUNDUP	3	QT/A	POST						
SIMAZINE+	2	QT/A	POST	99	99	99	99	99	99
ROUNDUP	3	QT/A	POST						
DIURON+	0.1	QT/A	POST	99	74	99	99	99	99
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	97	74	99	99	99	99
PROWL	2.42	QT/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	99	99	99	99	99	99
V-10142+	10.7	OZ/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	99	99	99	99	99	99
V-10142+	21.3	OZ/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	99	74	99	99	99	99
SURFLAN+	3	QT/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	99	99	99	92	99	99
SIMAZINE+	2	QT/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	67	99	99	92	92	99
DIURON+	0.1	QT/A	POST						
ROUNDUP	3	QT/A	POST						
LSD (P=.05)				18	36	28	10	6	0
Standard Deviation				12.6	25.5	19.8	6.6	3.9	0
CV				14.16	30.13	22.81	7.36	4.24	0

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GRAPES - CHATEAU HERBICIDE COMBINATIONS
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Trial ID: GRAPECHATW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				TRFPR	TRFRE	DIGSA	TAROF	SETFA	SOOCA
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/26/2006	7/26/2006	7/26/2006	7/26/2006	7/26/2006	7/26/2006
Trt-Eval Interval				60 DAT	60 DAT	60 DAT	60 DAT	60 DAT	60 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	25	26	27	28	29	30
UNTREATED CONTROL				0	0	0	0	0	0
CHATEAU+	11.8	OZ/A	POST	99	87	74	67	99	99
ROUNDUP	3	QT/A	POST						
PROWL+	2.42	QT/A	POST	99	65	99	74	89	99
ROUNDUP	3	QT/A	POST						
V-10142+	10.7	OZ/A	POST	98	86	99	92	99	99
ROUNDUP	3	QT/A	POST						
V-10142+	21.3	OZ/A	POST	96	85	99	89	99	99
ROUNDUP	3	QT/A	POST						
SURFLAN+	3	QT/A	POST	99	90	99	78	99	99
ROUNDUP	3	QT/A	POST						
SIMAZINE+	2	QT/A	POST	99	76	99	40	99	99
ROUNDUP	3	QT/A	POST						
DIURON+	0.1	QT/A	POST	99	71	99	0	99	99
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	91	65	99	63	99	99
PROWL	2.42	QT/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	91	96	71	85	99	99
V-10142+	10.7	OZ/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	99	81	99	91	99	99
V-10142+	21.3	OZ/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	99	94	99	79	99	99
SURFLAN+	3	QT/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	99	96	99	79	87	99
SIMAZINE+	2	QT/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	99	94	99	66	99	99
DIURON+	0.1	QT/A	POST						
ROUNDUP	3	QT/A	POST						
LSD (P=.05)				5	30	26	36	12	0
Standard Deviation				3.6	20.9	18.5	24.9	8.5	0
CV				4.01	27.02	20.99	38.65	9.38	0

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IN CONCORD GRAPES

Trial ID: GRAPECHATW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				DAUCA	MORAL	OXAST	TOXRA	POLPY	URTDI
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/26/2006	7/26/2006	7/26/2006	7/26/2006	7/26/2006	7/26/2006
Trt-Eval Interval				60 DAT	60 DAT	60 DAT	60 DAT	60 DAT	60 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	31	32	33	34	35	36
UNTREATED CONTROL				0	0	0	0	0	0
CHATEAU+	11.8	OZ/A	POST	96	99	96	99	99	99
ROUNDUP	3	QT/A	POST						
PROWL+	2.42	QT/A	POST	74	74	99	99	99	99
ROUNDUP	3	QT/A	POST						
V-10142+	10.7	OZ/A	POST	99	74	99	74	99	99
ROUNDUP	3	QT/A	POST						
V-10142+	21.3	OZ/A	POST	99	99	99	99	99	99
ROUNDUP	3	QT/A	POST						
SURFLAN+	3	QT/A	POST	92	99	99	99	74	99
ROUNDUP	3	QT/A	POST						
SIMAZINE+	2	QT/A	POST	97	99	99	99	99	99
ROUNDUP	3	QT/A	POST						
DIURON+	0.1	QT/A	POST	74	74	99	99	74	99
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	99	99	99	99	74	99
PROWL	2.42	QT/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	99	99	99	99	99	99
V-10142+	10.7	OZ/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	99	99	99	99	99	99
V-10142+	21.3	OZ/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	95	99	74	99	99	99
SURFLAN+	3	QT/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	96	87	74	99	99	99
SIMAZINE+	2	QT/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	74	99	74	74	99	99
DIURON+	0.1	QT/A	POST						
ROUNDUP	3	QT/A	POST						
LSD (P=.05)				34	34	35	27	34	0
Standard Deviation				23.4	23.9	23.5	18.9	23.5	0
CV				27.52	27.9	27.26	21.44	27.12	0

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Trial ID: GRAPECHATW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				PRTQU	MUHFR	CYPES		ASTPI	CAGSE
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	PLANT	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/26/2006	7/26/2006	7/26/2006	8/26/2006	8/26/2006	8/26/2006
Trt-Eval Interval				60 DAT	60 DAT	60 DAT	90 DAT	90 DAT	90 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	37	38	39	40	42	43
UNTREATED CONTROL				0	0	0	0	0	0
CHATEAU+	11.8	OZ/A	POST	99	73	99	0	99	99
ROUNDUP	3	QT/A	POST						
PROWL+	2.42	QT/A	POST	74	82	74	0	74	74
ROUNDUP	3	QT/A	POST						
V-10142+	10.7	OZ/A	POST	74	62	99	0	96	50
ROUNDUP	3	QT/A	POST						
V-10142+	21.3	OZ/A	POST	99	62	99	0	74	99
ROUNDUP	3	QT/A	POST						
SURFLAN+	3	QT/A	POST	74	92	99	0	71	99
ROUNDUP	3	QT/A	POST						
SIMAZINE+	2	QT/A	POST	99	74	99	0	99	99
ROUNDUP	3	QT/A	POST						
DIURON+	0.1	QT/A	POST	74	50	99	0	74	74
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	25	87	99	0	74	74
PROWL	2.42	QT/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	99	91	99	0	92	99
V-10142+	10.7	OZ/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	99	80	99	0	99	99
V-10142+	21.3	OZ/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	74	65	99	0	71	74
SURFLAN+	3	QT/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	99	80	99	0	99	99
SIMAZINE+	2	QT/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	99	0	99	0	74	99
DIURON+	0.1	QT/A	POST						
ROUNDUP	3	QT/A	POST						
LSD (P=.05)				47	45	19	0	48	44
Standard Deviation				32.5	31.3	13.2	0	33.5	30.8
CV				41.84	48.92	14.67	0	42.81	37.93

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Trial ID: GRAPECHATW 2006
Study Dir.: Doug Doohan and T. Koch
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Investigator: Doug Doohan

Weed Code				SOLPT	RUBFR	PLALA	CERVU	TRFPR
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/26/2006	8/26/2006	8/26/2006	8/26/2006	8/26/2006
Trt-Eval Interval				90 DAT	90 DAT	90 DAT	90 DAT	90 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	44	45	46	47	48
UNTREATED CONTROL				0	0	0	0	0
CHATEAU+	11.8	OZ/A	POST	99	99	99	99	99
ROUNDUP	3	QT/A	POST					
PROWL+	2.42	QT/A	POST	99	99	99	99	99
ROUNDUP	3	QT/A	POST					
V-10142+	10.7	OZ/A	POST	62	50	87	98	98
ROUNDUP	3	QT/A	POST					
V-10142+	21.3	OZ/A	POST	25	70	99	99	99
ROUNDUP	3	QT/A	POST					
SURFLAN+	3	QT/A	POST	74	99	99	99	99
ROUNDUP	3	QT/A	POST					
SIMAZINE+	2	QT/A	POST	99	99	99	99	99
ROUNDUP	3	QT/A	POST					
DIURON+	0.1	QT/A	POST	99	74	99	99	99
ROUNDUP	3	QT/A	POST					
CHATEAU+	11.8	OZ/A	POST	99	99	99	91	50
PROWL	2.42	QT/A	POST					
ROUNDUP	3	QT/A	POST					
CHATEAU+	11.8	OZ/A	POST	99	99	87	91	82
V-10142+	10.7	OZ/A	POST					
ROUNDUP	3	QT/A	POST					
CHATEAU+	11.8	OZ/A	POST	99	99	99	99	99
V-10142+	21.3	OZ/A	POST					
ROUNDUP	3	QT/A	POST					
CHATEAU+	11.8	OZ/A	POST	99	99	99	99	99
SURFLAN+	3	QT/A	POST					
ROUNDUP	3	QT/A	POST					
CHATEAU+	11.8	OZ/A	POST	92	99	99	99	99
SIMAZINE+	2	QT/A	POST					
ROUNDUP	3	QT/A	POST					
CHATEAU+	11.8	OZ/A	POST	99	99	99	99	96
DIURON+	0.1	QT/A	POST					
ROUNDUP	3	QT/A	POST					
LSD (P=.05)				32	33	13	4	23
Standard Deviation				22.6	22.8	8.9	3	16.1
CV				27.63	27.01	9.87	3.35	18.57

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Trial ID: GRAPECHATW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				TRFRE	DIGSA	TAROF	SETFA	SOOCA	MORAL
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				8/26/2006	8/26/2006	8/26/2006	8/26/2006	8/26/2006	8/26/2006
Trt-Eval Interval				90 DAT	90 DAT	90 DAT	90 DAT	90 DAT	90 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	49	50	51	52	53	54
UNTREATED CONTROL				0	0	0	0	0	0
CHATEAU+	11.8	OZ/A	POST	66	64	71	20	99	96
ROUNDUP	3	QT/A	POST						
PROWL+	2.42	QT/A	POST	81	42	70	40	99	50
ROUNDUP	3	QT/A	POST						
V-10142+	10.7	OZ/A	POST	34	52	79	62	99	74
ROUNDUP	3	QT/A	POST						
V-10142+	21.3	OZ/A	POST	49	75	79	99	74	99
ROUNDUP	3	QT/A	POST						
SURFLAN+	3	QT/A	POST	79	87	41	50	99	99
ROUNDUP	3	QT/A	POST						
SIMAZINE+	2	QT/A	POST	50	5	75	50	99	99
ROUNDUP	3	QT/A	POST						
DIURON+	0.1	QT/A	POST	62	13	25	50	99	74
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	41	40	25	74	99	99
PROWL	2.42	QT/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	84	41	57	67	99	99
V-10142+	10.7	OZ/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	54	85	54	94	99	99
V-10142+	21.3	OZ/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	50	86	40	79	99	95
SURFLAN+	3	QT/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	65	83	64	25	99	96
SIMAZINE+	2	QT/A	POST						
ROUNDUP	3	QT/A	POST						
CHATEAU+	11.8	OZ/A	POST	65	74	37	8	99	99
DIURON+	0.1	QT/A	POST						
ROUNDUP	3	QT/A	POST						
LSD (P=.05)				53	47	47	60	19	33
Standard Deviation				37	32.7	32.7	41.6	13.2	23
CV				66.66	61.45	64.04	81.38	14.67	27.35

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GRAPES - CHATEAU HERBICIDE COMBINATIONS
IN CONCORD GRAPES

Trial ID: GRAPECHATW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				MUHSC	OXAST	TOXRA	DAUCA	POLPY
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/26/2006	8/26/2006	8/26/2006	8/26/2006	8/26/2006
Trt-Eval Interval				90 DAT	90 DAT	90 DAT	90 DAT	90 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	55	56	57	58	59
UNTREATED CONTROL				0	0	0	0	0
CHATEAU+	11.8	OZ/A	POST	19	74	99	84	99
ROUNDUP	3	QT/A	POST					
PROWL+	2.42	QT/A	POST	25	74	99	74	50
ROUNDUP	3	QT/A	POST					
V-10142+	10.7	OZ/A	POST	25	99	99	99	99
ROUNDUP	3	QT/A	POST					
V-10142+	21.3	OZ/A	POST	50	99	99	99	99
ROUNDUP	3	QT/A	POST					
SURFLAN+	3	QT/A	POST	74	62	99	82	74
ROUNDUP	3	QT/A	POST					
SIMAZINE+	2	QT/A	POST	99	99	99	99	99
ROUNDUP	3	QT/A	POST					
DIURON+	0.1	QT/A	POST	50	74	92	74	25
ROUNDUP	3	QT/A	POST					
CHATEAU+	11.8	OZ/A	POST	74	99	99	50	50
PROWL	2.42	QT/A	POST					
ROUNDUP	3	QT/A	POST					
CHATEAU+	11.8	OZ/A	POST	20	99	99	99	99
V-10142+	10.7	OZ/A	POST					
ROUNDUP	3	QT/A	POST					
CHATEAU+	11.8	OZ/A	POST	47	99	99	99	99
V-10142+	21.3	OZ/A	POST					
ROUNDUP	3	QT/A	POST					
CHATEAU+	11.8	OZ/A	POST	49	60	99	93	99
SURFLAN+	3	QT/A	POST					
ROUNDUP	3	QT/A	POST					
CHATEAU+	11.8	OZ/A	POST	37	88	99	74	74
SIMAZINE+	2	QT/A	POST					
ROUNDUP	3	QT/A	POST					
CHATEAU+	11.8	OZ/A	POST	0	55	99	74	99
DIURON+	0.1	QT/A	POST					
ROUNDUP	3	QT/A	POST					
LSD (P=.05)				59	40	6	48	46
Standard Deviation				41.3	27.6	3.9	33.5	31.9
CV				101.68	35.74	4.24	42.57	41.99

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GRAPES - CHATEAU HERBICIDE COMBINATIONS
IN CONCORD GRAPES

Trial ID: GRAPECHATW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				URTDI	ACCVI	PRTQU	MUHFR	CYPES
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/26/2006	8/26/2006	8/26/2006	8/26/2006	8/26/2006
Trt-Eval Interval				90 DAT	90 DAT	90 DAT	90 DAT	90 DAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	60	61	62	63	64
UNTREATED CONTROL				0	0	0	0	0
CHATEAU+	11.8	OZ/A	POST	99	99	99	73	99
ROUNDUP	3	QT/A	POST					
PROWL+	2.42	QT/A	POST	99	2	74	82	74
ROUNDUP	3	QT/A	POST					
V-10142+	10.7	OZ/A	POST	99	99	74	74	99
ROUNDUP	3	QT/A	POST					
V-10142+	21.3	OZ/A	POST	99	99	99	38	99
ROUNDUP	3	QT/A	POST					
SURFLAN+	3	QT/A	POST	99	99	74	92	50
ROUNDUP	3	QT/A	POST					
SIMAZINE+	2	QT/A	POST	99	99	99	74	99
ROUNDUP	3	QT/A	POST					
DIURON+	0.1	QT/A	POST	99	74	74	74	99
ROUNDUP	3	QT/A	POST					
CHATEAU+	11.8	OZ/A	POST	99	74	50	99	99
PROWL	2.42	QT/A	POST					
ROUNDUP	3	QT/A	POST					
CHATEAU+	11.8	OZ/A	POST	99	99	99	94	99
V-10142+	10.7	OZ/A	POST					
ROUNDUP	3	QT/A	POST					
CHATEAU+	11.8	OZ/A	POST	99	99	99	75	99
V-10142+	21.3	OZ/A	POST					
ROUNDUP	3	QT/A	POST					
CHATEAU+	11.8	OZ/A	POST	99	99	74	90	99
SURFLAN+	3	QT/A	POST					
ROUNDUP	3	QT/A	POST					
CHATEAU+	11.8	OZ/A	POST	99	99	99	85	99
SIMAZINE+	2	QT/A	POST					
ROUNDUP	3	QT/A	POST					
CHATEAU+	11.8	OZ/A	POST	99	99	99	25	99
DIURON+	0.1	QT/A	POST					
ROUNDUP	3	QT/A	POST					
LSD (P=.05)				0	27	47	44	30
Standard Deviation				0	18.9	32.7	30.9	20.6
CV				0	23.25	41.17	44.48	23.84

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GRAPES - RIMSULFURON EFFICACY AND CROP TOLERANCE

Trial ID: GRAPERIMEFCT 2006 | Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio | Investigator: Doug Doohan

TRIAL LOCATION

City: Wooster | Trial Status: Final
State/Prov.: Ohio | Trial Reliability: Reliable
Postal Code: 44691 | Initiation Date: 04/19/06
Country: USA | Planned Completion Date: 10/30/06

Objective: Evaluate rimsulfuron combinations for weed control and crop tolerance on grapes.

CROP AND WEED DESCRIPTION

Weed		Code	Common Name	Scientific Name
	1	AGGRE	quackgrass	*Elytrigia repens (L.) Nevski*
	2	AMAXX	pigweed spp.	*Amaranthus spp.*
	3	CERVU	mouseear chickweed	*Cerastium vulgatum L.*
	4	DIGSA	large crabgrass	*Digitaria sanguinalis (L.) Scop.*
	5	EPHMA	spotted spurge	*Euphorbia maculata L.*
	6	ERIAN	annual fleabane	*Erigeron annuus (L.) Pers.*
	7	LEPVI	Virginia pepperweed	*Lepidium virginicum L.*
	8	PANDI	fall panicum	*Panicum dichotomiflorum Michx.*
	9	PLAMA	broadleaf plantain	*Plantago major L.*
	10	POAAN	annual bluegrass	*Poa annua L.*
	11	POROL	common purslane	*Portulaca oleracea L.*
	12	PRUVU	healall	*Prunella vulgaris L.*
	13	SENVU	common groundsel	*Senecio vulgaris L.*
	14	SOLPT	eastern black nightshade	*Solanum ptycanthum Dun.*
	15	STEME	common chickweed	*Stellaria media (L.) Vill*
	16	TAROF	dandelion	*Taraxacum officinale Weber*
	17	TRFRE	white clover	*Trifolium repens L.*

Crop 1: VITLA GRAPE | Variety: SEYVAL BLANC
Planting Date: 05/15/03 | Planting Method: CONVENTIONAL
Rate: 544 VINES /A. | Depth: 10 IN
Row Spacing: 8' X 10' | Seed Bed: CONVENTIONAL
Perennial Age: 3 YEARS

SITE AND DESIGN

Plot Width, Unit: 4 FT | Plot Length, Unit: 12 FT
Site Type: LEVEL FIELD | Reps: 4
Tillage Type: NONE | Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 15 | % OM: 3.0 | Texture: SILT LOAM
% Silt: 67 | pH: 5.11 | Soil Name: WOOSTER SILT LOAM
% Clay: 15 | CEC: 12.0 | Fert. Level: MODERATE

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GRAPES - RIMSULFURON EFFICACY AND CROP TOLERANCE

Trial ID: GRAPERIMEFCT 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

APPLICATION DESCRIPTION

	A
Application Date:	4/19/2006
Time of Day:	9-10 AM
Application Method:	SPRAY
Application Timing:	DORMANT
Applic. Placement:	DIRECTED
Air Temp., Unit:	55.3 F
% Relative Humidity:	60
Wind Velocity, Unit:	4.3 MPH
Dew Presence (Y/N):	N
Soil Moisture:	MOIST
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	VITLA PRE
Stage Scale:	DORMANT
Height, Unit:	6 FT

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	AGGRE PRE
Stage Scale:	.
Density, Unit:	. .
Weed 2 Code, Stage:	AMAXX PRE
Stage Scale:	1 IN DIAM
Density, Unit:	LOW PLOT
Weed 3 Code, Stage:	CERVU PRE
Stage Scale:	.
Density, Unit:	. .
Weed 4 Code, Stage:	DIGSA PRE
Stage Scale:	.
Density, Unit:	. .
Weed 5 Code, Stage:	EPHMA PRE
Stage Scale:	.
Density, Unit:	. .
Weed 6 Code, Stage:	ERIAN PRE
Stage Scale:	.
Density, Unit:	. .
Weed 7 Code, Stage:	LEPVI PRE
Stage Scale:	.
Density, Unit:	. .
Weed 8 Code, Stage:	PANDI PRE
Stage Scale:	3 IN DIAM
Density, Unit:	LOW PLOT
Weed 9 Code, Stage:	PLAMA PRE
Stage Scale:	6 IN DIAM
Density, Unit:	LOW PLOT
Weed10 Code, Stage:	POAAN PRE
Stage Scale:	.
Density, Unit:	. .
Weed11 Code, Stage:	POROL PRE
Stage Scale:	4 IN DIAM
Density, Unit:	LOW PLOT

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GRAPES - RIMSULFURON EFFICACY AND CROP TOLERANCE

Trial ID: GRAPERIMEFCT 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

Weed12 Code, Stage:	PRUVU PRE
Stage Scale:	3-6 IN
Density, Unit:	LOW PLOT
Weed13 Code, Stage:	SENVU PRE
Stage Scale:	.
Density, Unit:	. .
Weed14 Code, Stage:	SOLPT PRE
Stage Scale:	6 IN DIAM
Density, Unit:	LOW PLOT
Weed15 Code, Stage:	STEME PRE
Stage Scale:	6 IN DIAM
Density, Unit:	MEDIUM PLOT
Weed16 Code, Stage:	TAROF PRE
Stage Scale:	.
Density, Unit:	. .
Weed17 Code, Stage:	TRFRE
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:	30 IN
Boom Height, Unit:	18 IN
Ground Speed, Unit:	2 MPH
Spray Volume, Unit:	25 GPA

Trial Comments:

In the Trt-Eval Interval, " DAT" refers to days after treatment.

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GRAPES - RIMSULFURON EFFICACY AND CROP TOLERANCE

Trial ID: GRAPERIMEFCT 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio

Weed Code					POANN	STEME	CERVU	DIGSA
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				LEAF	WEED	WEED	WEED	WEED
Rating Data Type				PHYTO	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/19/2006	5/19/2006	5/19/2006	5/19/2006	5/19/2006
Trt-Eval Interval				30 DAT	30 DAT	30 DAT	30 DAT	30 DAT
Spray Timing				DORMANT	DORMANT	DORMANT	DORMANT	DORMANT
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	DORMANT	0	99	99	99	90
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	8	OZ/A	DORMANT	0	99	99	99	95
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	0	99	99	99	99
KARMEX+	48	OZ/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	0	99	99	99	85
PRINCEP +	3.6	QT/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	0	99	99	99	94
KARMEX+	32	OZ/A	DORMANT					
PRINCEP +	1.8	QT/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT	0	99	99	99	25
NIS	0.25	QT/A	DORMANT					
PAYLOAD+	7.84	OZ/A	DORMANT	0	99	99	99	74
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	0	99	99	99	85
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	LPOST					
ROUNDUP+	32	OZ/A	LPOST					
NIS	0.25	QT/A	LPOST					
MATRIX+	8	OZ/A	DORMANT	0	99	99	99	92
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	8	OZ/A	LPOST					
ROUNDUP+	32	OZ/A	LPOST					
NIS	0.25	QT/A	LPOST					
LSD (P=.05)				0	0	0	0	37
Standard Deviation				0	0	0	0	25.5
CV				0	0	0	0	34.64

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GRAPES - RIMSULFURON EFFICACY AND CROP TOLERANCE

Trial ID: GRAPERIMEFCT 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio

Weed Code				TAROF	SENVU	PRUVU	PLAMA	
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	LEAF
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	PHYTO
Rating Unit				%	%	%	%	%
Rating Date				5/19/2006	5/19/2006	5/19/2006	5/19/2006	6/19/2006
Trt-Eval Interval				30 DAT	30 DAT	30 DAT	30 DAT	60 DAT
Spray Timing				DORMANT	DORMANT	DORMANT	DORMANT	DORMANT
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	DORMANT	79	99	99	93	0
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	8	OZ/A	DORMANT	64	99	99	93	0
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	82	99	99	99	0
KARMEX+	48	OZ/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	64	99	99	96	0
PRINCEP +	3.6	QT/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	84	99	99	99	0
KARMEX+	32	OZ/A	DORMANT					
PRINCEP +	1.8	QT/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT	53	99	99	99	0
NIS	0.25	QT/A	DORMANT					
PAYLOAD+	7.84	OZ/A	DORMANT	96	99	99	99	0
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	68	99	99	82	0
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	LPOST					
ROUNDUP+	32	OZ/A	LPOST					
NIS	0.25	QT/A	LPOST					
MATRIX+	8	OZ/A	DORMANT	71	99	99	92	0
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	8	OZ/A	LPOST					
ROUNDUP+	32	OZ/A	LPOST					
NIS	0.25	QT/A	LPOST					
LSD (P=.05)				18	0	0	14	0
Standard Deviation				12.6	0	0	9.4	0
CV				19.07	0	0	11	0

The Ohio State University

GRAPES - RIMSULFURON EFFICACY AND CROP TOLERANCE

Trial ID: GRAPERIMEFCT 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio

Weed Code				POANN	SOLPT	STEME	CERVU	TRFRE
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/19/2006	6/19/2006	6/19/2006	6/19/2006	6/19/2006
Trt-Eval Interval				60 DAT	60 DAT	60 DAT	60 DAT	60 DAT
Spray Timing				DORMANT	DORMANT	DORMANT	DORMANT	DORMANT
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	DORMANT	99	74	99	99	99
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	8	OZ/A	DORMANT	99	99	99	99	99
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	99	99	99	99	99
KARMEX+	48	OZ/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	99	99	99	99	99
PRINCEP +	3.6	QT/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	99	99	99	99	99
KARMEX+	32	OZ/A	DORMANT					
PRINCEP +	1.8	QT/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT	99	99	99	99	99
NIS	0.25	QT/A	DORMANT					
PAYLOAD+	7.84	OZ/A	DORMANT	99	99	99	99	87
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	99	99	99	99	99
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	LPOST					
ROUNDUP+	32	OZ/A	LPOST					
NIS	0.25	QT/A	LPOST					
MATRIX+	8	OZ/A	DORMANT	99	99	99	99	99
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	8	OZ/A	LPOST					
ROUNDUP+	32	OZ/A	LPOST					
NIS	0.25	QT/A	LPOST					
LSD (P=.05)				0	23	0	0	11
Standard Deviation				0	15.7	0	0	7.7
CV				0	18.07	0	0	8.82

The Ohio State University

GRAPES - RIMSULFURON EFFICACY AND CROP TOLERANCE

Trial ID: GRAPERIMEFCT 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio

Weed Code				DIGSA	TAROF	SENVU	PRUVU	AMAXX
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/19/2006	6/19/2006	6/19/2006	6/19/2006	6/19/2006
Trt-Eval Interval				60 DAT	60 DAT	60 DAT	60 DAT	60 DAT
Spray Timing				DORMANT	DORMANT	DORMANT	DORMANT	DORMANT
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	DORMANT	85	96	99	99	99
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	8	OZ/A	DORMANT	90	94	99	99	99
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	98	85	99	99	99
KARMEX+	48	OZ/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	91	71	99	99	99
PRINCEP +	3.6	QT/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	95	92	99	99	99
KARMEX+	32	OZ/A	DORMANT					
PRINCEP +	1.8	QT/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT	0	65	99	99	99
NIS	0.25	QT/A	DORMANT					
PAYLOAD+	7.84	OZ/A	DORMANT	96	44	99	99	74
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	81	90	99	99	99
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	LPOST					
ROUNDUP+	32	OZ/A	LPOST					
NIS	0.25	QT/A	LPOST					
MATRIX+	8	OZ/A	DORMANT	88	98	99	99	99
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	8	OZ/A	LPOST					
ROUNDUP+	32	OZ/A	LPOST					
NIS	0.25	QT/A	LPOST					
LSD (P=.05)				7	29	0	0	23
Standard Deviation				4.5	20.2	0	0	15.7
CV				6.23	27.5	0	0	18.07

The Ohio State University

GRAPES - RIMSULFURON EFFICACY AND CROP TOLERANCE

Trial ID: GRAPERIMEFCT 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio

Weed Code				LEPVI	PLAMA		POANN	SOLPT
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	LEAF	WEED	WEED
Rating Data Type				CONTROL	CONTROL	PHYTO	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/19/2006	6/19/2006	7/18/2006	7/18/2006	7/18/2006
Trt-Eval Interval				60 DAT	60 DAT	90 DAT	90 DAT	90 DAT
Spray Timing				DORMANT	DORMANT	DORMANT	DORMANT	DORMANT
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	DORMANT	99	99	0	99	70
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	8	OZ/A	DORMANT	99	81	0	99	99
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	99	99	0	99	99
KARMEX+	48	OZ/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	99	99	0	99	99
PRINCEP +	3.6	QT/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	99	99	0	99	99
KARMEX+	32	OZ/A	DORMANT					
PRINCEP +	1.8	QT/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT	99	99	0	99	99
NIS	0.25	QT/A	DORMANT					
PAYLOAD+	7.84	OZ/A	DORMANT	94	99	0	99	99
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	99	75	0	99	99
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	LPOST					
ROUNDUP+	32	OZ/A	LPOST					
NIS	0.25	QT/A	LPOST					
MATRIX+	8	OZ/A	DORMANT	99	93	0	99	99
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	8	OZ/A	LPOST					
ROUNDUP+	32	OZ/A	LPOST					
NIS	0.25	QT/A	LPOST					
LSD (P=.05)				4	18	0	0	28
Standard Deviation				3	12.6	0	0	14.9
CV				3.39	14.99	0	0	17.32

The Ohio State University

GRAPES - RIMSULFURON EFFICACY AND CROP TOLERANCE

Trial ID: GRAPERIMEFCT 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio

Weed Code				STEME	CERVU	TRFRE	DIGSA	TAROF
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/18/2006	7/18/2006	7/18/2006	7/19/2006	7/19/2006
Trt-Eval Interval				90 DAT	90 DAT	90 DAT	90 DAT	90 DAT
Spray Timing				DORMANT	DORMANT	DORMANT	DORMANT	DORMANT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	26	27	28	29	30
UNTREATED CONTROL				0	0	0	0	0
MATRIX+	4	OZ/A	DORMANT	97	99	94	64	88
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	8	OZ/A	DORMANT	99	99	99	63	95
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	99	94	99	90	86
KARMEX+	48	OZ/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	99	99	99	78	86
PRINCEP +	3.6	QT/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	99	99	99	84	80
KARMEX+	32	OZ/A	DORMANT					
PRINCEP +	1.8	QT/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT	99	99	99	5	94
NIS	0.25	QT/A	DORMANT					
PAYLOAD+	7.84	OZ/A	DORMANT	99	99	75	85	66
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	99	99	98	99	96
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	LPOST					
ROUNDUP+	32	OZ/A	LPOST					
NIS	0.25	QT/A	LPOST					
MATRIX+	8	OZ/A	DORMANT	99	99	99	99	99
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	8	OZ/A	LPOST					
ROUNDUP+	32	OZ/A	LPOST					
NIS	0.25	QT/A	LPOST					
LSD (P=.05)				2	4	11	19	15
Standard Deviation				1.4	3	7.5	13	10.6
CV				1.6	3.39	8.66	19.48	13.44

The Ohio State University

GRAPES - RIMSULFURON EFFICACY AND CROP TOLERANCE

Trial ID: GRAPERIMEFCT 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio

Weed Code				SENVU	PRUVU	AMAXX	LEPVI	PLAMA
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/18/2006	7/18/2006	7/18/2006	7/18/2006	7/18/2006
Trt-Eval Interval				90 DAT	90 DAT	90 DAT	90 DAT	90 DAT
Spray Timing				DORMANT	DORMANT	DORMANT	DORMANT	DORMANT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	31	32	33	34	35
UNTREATED CONTROL				0	0	0	0	0
MATRIX+	4	OZ/A	DORMANT	91	88	99	99	96
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	8	OZ/A	DORMANT	96	99	99	99	94
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	94	99	99	99	91
KARMEX+	48	OZ/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	99	96	99	99	99
PRINCEP +	3.6	QT/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	98	98	98	99	99
KARMEX+	32	OZ/A	DORMANT					
PRINCEP +	1.8	QT/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT	99	99	99	99	99
NIS	0.25	QT/A	DORMANT					
PAYLOAD+	7.84	OZ/A	DORMANT	99	93	99	87	99
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	99	99	99	99	99
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	LPOST					
ROUNDUP+	32	OZ/A	LPOST					
NIS	0.25	QT/A	LPOST					
MATRIX+	8	OZ/A	DORMANT	99	99	99	99	99
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	8	OZ/A	LPOST					
ROUNDUP+	32	OZ/A	LPOST					
NIS	0.25	QT/A	LPOST					
LSD (P=.05)				7	12	1	11	9
Standard Deviation				5	8.5	0.6	7.7	6.5
CV				5.67	9.79	0.71	8.82	7.4

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GRAPES - RIMSULFURON EFFICACY AND CROP TOLERANCE

Trial ID: GRAPERIMEFCT 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio

Weed Code				POROL		POANN	SOLPT	STEME	CERVU
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	LEAF	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	PHYTO	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/18/2006	7/29/2006	7/29/2006	7/29/2006	7/29/2006	7/29/2006
Trt-Eval Interval				90 DAT	30 DAT	30 DAT	30 DAT	30 DAT	30 DAT
Spray Timing				DORMANT	LPOST	LPOST	LPOST	LPOST	LPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	36	37	38	39	40	41
UNTREATED CONTROL				0	0	0	0	0	0
MATRIX+	4	OZ/A	DORMANT	94					
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	DORMANT	58					
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	99					
KARMEX+	48	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	86					
PRINCEP +	3.6	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	94					
KARMEX+	32	OZ/A	DORMANT						
PRINCEP +	1.8	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT	86					
NIS	0.25	QT/A	DORMANT						
PAYLOAD+	7.84	OZ/A	DORMANT	99					
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	99	0	99	99	99	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	LPOST						
ROUNDUP+	32	OZ/A	LPOST						
NIS	0.25	QT/A	LPOST						
MATRIX+	8	OZ/A	DORMANT	99	0	99	99	99	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	LPOST						
ROUNDUP+	32	OZ/A	LPOST						
NIS	0.25	QT/A	LPOST						
LSD (P=.05)				20	0	0	0	0	0
Standard Deviation				13.8	0	0	0	0	0
CV				16.99	0	0	0	0	0

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GRAPES - RIMSULFURON EFFICACY AND CROP TOLERANCE

Trial ID: GRAPERIMEFCT 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio

Weed Code				TRFRE	DIGSA	TAROF	PANDI	SENVU	PRUVU
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/29/2006	7/29/2006	7/29/2006	7/29/2006	7/29/2006	7/29/2006
Trt-Eval Interval				30 DAT	30 DAT	30 DAT	30 DAT	30 DAT	30 DAT
Spray Timing				LPOST	LPOST	LPOST	LPOST	LPOST	LPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	42	43	44	45	46	47
UNTREATED CONTROL				0	0	0	0	0	0
MATRIX+	4	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
KARMEX+	48	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
PRINCEP +	3.6	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
KARMEX+	32	OZ/A	DORMANT						
PRINCEP +	1.8	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
PAYLOAD+	7.84	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	99	94	98	89	98	98
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	LPOST						
ROUNDUP+	32	OZ/A	LPOST						
NIS	0.25	QT/A	LPOST						
MATRIX+	8	OZ/A	DORMANT	99	95	99	90	99	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	LPOST						
ROUNDUP+	32	OZ/A	LPOST						
NIS	0.25	QT/A	LPOST						
LSD (P=.05)				0	4	2	7	2	2
Standard Deviation				0	2.5	1.2	4	1.2	1.2
CV				0	3.91	1.76	6.71	1.76	1.76

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GRAPES - RIMSULFURON EFFICACY AND CROP TOLERANCE

Trial ID: GRAPERIMEFCT 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio

Weed Code				AMAXX	LEPVI	PLAMA	POROL		POANN
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	LEAF	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	PHYTO	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/29/2006	7/29/2006	7/29/2006	7/29/2006	8/29/2006	8/29/2006
Trt-Eval Interval				30 DAT	30 DAT	30 DAT	30 DAT	60 DAT	60 DAT
Spray Timing				LPOST	LPOST	LPOST	LPOST	LPOST	LPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	48	49	50	51	52	53
UNTREATED CONTROL				0	0	0	0	0	0
MATRIX+	4	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
KARMEX+	48	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
PRINCEP +	3.6	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
KARMEX+	32	OZ/A	DORMANT						
PRINCEP +	1.8	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
PAYLOAD+	7.84	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	98	98	99	94	0	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	LPOST						
ROUNDUP+	32	OZ/A	LPOST						
NIS	0.25	QT/A	LPOST						
MATRIX+	8	OZ/A	DORMANT	99	99	99	97	0	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	LPOST						
ROUNDUP+	32	OZ/A	LPOST						
NIS	0.25	QT/A	LPOST						
LSD (P=.05)				2	2	0	5	0	0
Standard Deviation				1.2	1.2	0	3	0	0
CV				1.76	1.76	0	4.72	0	0

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GRAPES - RIMSULFURON EFFICACY AND CROP TOLERANCE

Trial ID: GRAPERIMEFCT 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio

Weed Code				SOLPT	STEME	CERVU	TRFRE	DIGSA	TAROF
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				8/29/2006	8/29/2006	8/29/2006	8/29/2006	8/29/2006	8/29/2006
Trt-Eval Interval				60 DAT	60 DAT	60 DAT	60 DAT	60 DAT	60 DAT
Spray Timing				LPOST	LPOST	LPOST	LPOST	LPOST	LPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	54	55	56	57	58	59
UNTREATED CONTROL				0	0	0	0	0	0
MATRIX+	4	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
KARMEX+	48	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
PRINCEP +	3.6	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
KARMEX+	32	OZ/A	DORMANT						
PRINCEP +	1.8	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
PAYLOAD+	7.84	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	99	99	99	99	99	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	LPOST						
ROUNDUP+	32	OZ/A	LPOST						
NIS	0.25	QT/A	LPOST						
MATRIX+	8	OZ/A	DORMANT	99	99	99	99	99	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	LPOST						
ROUNDUP+	32	OZ/A	LPOST						
NIS	0.25	QT/A	LPOST						
LSD (P=.05)				0	0	0	0	0	0
Standard Deviation				0	0	0	0	0	0
CV				0	0	0	0	0	0

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GRAPES - RIMSULFURON EFFICACY AND CROP TOLERANCE

Trial ID: GRAPERIMEFCT 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio

Weed Code				PANDI	SENVU	PRUVU	AMAXX	LEPVI	PLAMA
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				8/29/2006	8/29/2006	8/29/2006	8/29/2006	8/29/2006	8/29/2006
Trt-Eval Interval				60 DAT	60 DAT	60 DAT	60 DAT	60 DAT	60 DAT
Spray Timing				LPOST	LPOST	LPOST	LPOST	LPOST	LPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	60	61	62	63	64	65
UNTREATED CONTROL				0	0	0	0	0	0
MATRIX+	4	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
KARMEX+	48	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
PRINCEP +	3.6	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
KARMEX+	32	OZ/A	DORMANT						
PRINCEP +	1.8	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
PAYLOAD+	7.84	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	80	99	99	99	99	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	LPOST						
ROUNDUP+	32	OZ/A	LPOST						
NIS	0.25	QT/A	LPOST						
MATRIX+	8	OZ/A	DORMANT	80	99	99	99	99	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	LPOST						
ROUNDUP+	32	OZ/A	LPOST						
NIS	0.25	QT/A	LPOST						
LSD (P=.05)				10	0	0	0	0	0
Standard Deviation				5.5	0	0	0	0	0
CV				10.36	0	0	0	0	0

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GRAPES - RIMSULFURON EFFICACY AND CROP TOLERANCE

Trial ID: GRAPERIMEFCT 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio

Weed Code				POROL	EPHMA		POANN	SOLPT	STEME
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	LEAF	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	PHYTO	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				8/29/2006	8/29/2006	9/29/2006	9/29/2006	9/29/2006	9/29/2006
Trt-Eval Interval				60 DAT	60 DAT	90 DAT	90 DAT	90 DAT	90 DAT
Spray Timing				LPOST	LPOST	LPOST	LPOST	LPOST	LPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	66	67	68	69	70	71
UNTREATED CONTROL				0	0	0	0	0	0
MATRIX+	4	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
KARMEX+	48	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
PRINCEP +	3.6	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
KARMEX+	32	OZ/A	DORMANT						
PRINCEP +	1.8	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
PAYLOAD+	7.84	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	85	96	0	99	99	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	LPOST						
ROUNDUP+	32	OZ/A	LPOST						
NIS	0.25	QT/A	LPOST						
MATRIX+	8	OZ/A	DORMANT	92	97	0	99	99	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	LPOST						
ROUNDUP+	32	OZ/A	LPOST						
NIS	0.25	QT/A	LPOST						
LSD (P=.05)				15	6	0	0	0	0
Standard Deviation				8.7	3.5	0	0	0	0
CV				14.74	5.54	0	0	0	0

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GRAPES - RIMSULFURON EFFICACY AND CROP TOLERANCE

Trial ID: GRAPERIMEFCT 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio

Weed Code				CERVU	TRFRE	DIGSA	TAROF	PANDI	SENVU
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				9/29/2006	9/29/2006	9/29/2006	9/29/2006	9/29/2006	9/29/2006
Trt-Eval Interval				90 DAT	90 DAT	90 DAT	90 DAT	90 DAT	90 DAT
Spray Timing				LPOST	LPOST	LPOST	LPOST	LPOST	LPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	72	73	74	75	76	77
UNTREATED CONTROL				0	0	0	0	0	0
MATRIX+	4	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
KARMEX+	48	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
PRINCEP +	3.6	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
KARMEX+	32	OZ/A	DORMANT						
PRINCEP +	1.8	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
PAYLOAD+	7.84	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	99	99	99	93	66	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	LPOST						
ROUNDUP+	32	OZ/A	LPOST						
NIS	0.25	QT/A	LPOST						
MATRIX+	8	OZ/A	DORMANT	99	99	94	98	53	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	LPOST						
ROUNDUP+	32	OZ/A	LPOST						
NIS	0.25	QT/A	LPOST						
LSD (P=.05)				0	0	10	8	20	0
Standard Deviation				0	0	5.5	4.5	11.8	0
CV				0	0	8.51	7.01	29.85	0

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GRAPES - RIMSULFURON EFFICACY AND CROP TOLERANCE

Trial ID: GRAPERIMEFCT 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio

Weed Code				PRUVU	AMAXX	LEPVI	PLAMA	POROL	EPHMA
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				9/29/2006	9/29/2006	9/29/2006	9/29/2006	9/29/2006	9/29/2006
Trt-Eval Interval				90 DAT	90 DAT	90 DAT	90 DAT	90 DAT	90 DAT
Spray Timing				LPOST	LPOST	LPOST	LPOST	LPOST	LPOST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	78	79	80	81	82	83
UNTREATED CONTROL				0	0	0	0	0	0
MATRIX+	4	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
KARMEX+	48	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
PRINCEP +	3.6	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
KARMEX+	32	OZ/A	DORMANT						
PRINCEP +	1.8	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
PAYLOAD+	7.84	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	99	99	99	96	76	92
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	LPOST						
ROUNDUP+	32	OZ/A	LPOST						
NIS	0.25	QT/A	LPOST						
MATRIX+	8	OZ/A	DORMANT	99	99	99	95	90	96
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	LPOST						
ROUNDUP+	32	OZ/A	LPOST						
NIS	0.25	QT/A	LPOST						
LSD (P=.05)				0	0	0	7	19	13
Standard Deviation				0	0	0	4	10.9	7.3
CV				0	0	0	6.34	19.81	11.62

The Ohio State University

GRAPE - WEED CONTROL AND CROP TOLERANCE IN CONCORDS USING SANDEA

Trial ID: GRAPSANDEAW 2006
Location: Wooster, Ohio

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

TRIAL LOCATION

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

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 05/08/06
Planned Completion Date: 12/15/06

Objective: To evaluate weed control and crop tolerance with Sandea.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	AGRASS	annual grasses (various)	*Setaria spp. and Digitaria spp.*
2	CHEAL	common lambsquarter	*Chenopodium album L.*
3	DIGSA	large crabgrass	*Digitaria sanguinalis (L.) Scop.*
4	PLAMA	broadleaf plantain	*Plantago major L.*
5	POAAN	annual bluegrass	*Poa annua L.*
6	POLPY	Pennsylvania smartweed	*Polygonum pensylvanicum L.*
7	SOLPT	eastern black nightshade	*Solanum ptycanthum Dun.*
8	TAROF	dandelion	*Taraxacum officinale Weber*

Crop 1: VITLA GRAPE
Planting Date: 05/15/81
Rate: 544 VINES/ACRE
Row Spacing: 10 FT
Perennial Age: 25 YEARS

Variety: CONCORD
Planting Method: CONVENTIONAL
Depth: 6 IN
Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 5 FT
Site Type: LEVEL FIELD
Tillage Type: NONE

Plot Length, Unit: 8 FT
Reps: 4
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 15	% OM: 3.0	Texture: SILT LOAM
% Silt: 67	pH: 5.11	Soil Name: WOOSTER SILT LOAM
% Clay: 15	CEC: 12.0	Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A	B
Application Date:	5/2/2006	7/6/2006
Time of Day:	9-10 AM	8-9 AM
Application Method:	SPRAY	SPRAY
Application Timing:	POST A	POST B
Applic. Placement:	DIRECTED	DIRECTED
Air Temp., Unit:	58.1 F	63.6 F
% Relative Humidity:	55.8	82.4
Wind Velocity, Unit:	1.5 MPH	2 MPH
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	100	80

The Ohio State University

GRAPE - WEED CONTROL AND CROP TOLERANCE IN CONCORDS USING SANDEA

Trial ID: GRAPSANDEAW 2006 | Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio | Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A		B	
Crop 1 Code, Stage:	VITLA	POST A	VITLA	POST B
Stage Scale:	BUD SWELL		POST BLOOM	
Height, Unit:	6 FT		6 FT	

WEED STAGE AT EACH APPLICATION

	A		B	
Weed 1 Code, Stage:	AGRASS	POST A	AGRASS	POST B
Stage Scale:	BLOOM		5-12 IN	
Density, Unit:	HIGH	PLOT	MEDIUM	PLOT
Weed 2 Code, Stage:	CHEAL	POST A	CHEAL	POST B
Stage Scale:	2-4 IN		6-12 IN	
Density, Unit:	LOW	PLOT	MEDIUM	PLOT
Weed 3 Code, Stage:	DIGSA	POST A	DIGSA	POST B
Stage Scale:	2-4 IN		3-12 IN	
Density, Unit:	MEDIUM	PLOT	LOW	PLOT
Weed 4 Code, Stage:	PLAMA	POST A	PLAMA	POST B
Stage Scale:	2 IN DIAM		4 IN DIAM	
Density, Unit:	MEDIUM	PLOT	MEDIUM	PLOT
Weed 5 Code, Stage:	POAAN	POST A	POAAN	POST B
Stage Scale:	2 LF		6-12 IN	
Density, Unit:	MEDIUM	PLOT	MEDIUM	PLOT
Weed 6 Code, Stage:	POLPY	POST A	POLPY	POST B
Stage Scale:	0.5 IN		4-12 IN	
Density, Unit:	MEDIUM	PLOT	MEDIUM	PLOT
Weed 7 Code, Stage:	SOLPT	POST A	SOLPT	POST B
Stage Scale:	2-4 IN		3-12 IN	
Density, Unit:	MEDIUM	PLOT	MEDIUM	PLOT
Weed 8 Code, Stage:	TAROF	POST A	TAROF	POST B
Stage Scale:	BLOOM		8 IN DIAM	
Density, Unit:	MEDIUM	PLOT	MEDIUM	PLOT

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	35	35
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8003EVS	8003EVS
Nozzle Spacing, Unit:	1	1
Band Width, Unit:	30 IN	30 IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	2 MPH	2 MPH
Spray Volume, Unit:	25 GPA	25 GPA

Trial Comments:

In the Trt-Eval Interval, " WAT" refers to weeks after treatmant.

The Ohio State University

GRAPE - WEED CONTROL AND CROP TOLERANCE IN CONCORDS USING SANDEA

Trial ID: GRAPSANDEAW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code						AGRASS	POANN	TAROF
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				PLANT	LEAF	WEED	WEED	WEED
Rating Data Type				PRUN WT	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit				LBS	%	%	%	%
Rating Date				2/15/2006	6/2/2006	6/2/2006	6/2/2006	6/2/2006
Trt-Eval Interval				PRUNING	4 WAT	4 WAT	4 WAT	4 WAT
Sprat Timing					POST A	POST A	POST A	POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
UNTREATED CONTROL				4.9	0	0	0	0
SANDEA+	1	OZ/A	POST A	3.4	0	67	85	42
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	2	OZ/A	POST A	6.7	0	90	92	52
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	4	OZ/A	POST A	6.7	0	69	77	75
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
GRAMAXONE	1	QT/A	POST A	5.7	0	62	62	62
GRAMAXONE	1	QT/A	POST B					
LSD (P=.05)				3	0	40	24	27
Standard Deviation				1.62	0	25.8	15.9	17.2
CV				29.66	0	44.9	25.1	37.22

The Ohio State University

GRAPE - WEED CONTROL AND CROP TOLERANCE IN CONCORDS USING SANDEA

Trial ID: GRAPSANDEAW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				CHEAL	PLAMA	POLPY		AGRASS
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	LEAF	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/2/2006	6/2/2006	6/2/2006	7/5/2006	7/5/2006
Trt-Eval Interval				4 WAT	4 WAT	4 WAT	8 WAT	8 WAT
Sprat Timing				POST A	POST A	POST A	POST A	POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
UNTREATED CONTROL				0	0	0	0	0
SANDEA+	1	OZ/A	POST A	99	35	99	0	50
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	2	OZ/A	POST A	99	35	99	0	54
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	4	OZ/A	POST A	99	65	99	0	74
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
GRAMAXONE	1	QT/A	POST A	62	62	62	0	69
GRAMAXONE	1	QT/A	POST B					
LSD (P=.05)				17	42	17	0	25
Standard Deviation				11	27.1	11	0	15.9
CV				15.25	68.96	15.25	0	32.22

The Ohio State University

GRAPE - WEED CONTROL AND CROP TOLERANCE IN CONCORDS USING SANDEA

Trial ID: GRAPSANDEAW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				SOLPT	POANN	TAROF	CHEAL	PLAMA
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/5/2006	7/5/2006	7/5/2006	7/5/2006	7/5/2006
Trt-Eval Interval				8 WAT	8 WAT	8 WAT	8 WAT	8 WAT
Sprat Timing				POST A	POST A	POST A	POST A	POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
UNTREATED CONTROL				0	0	0	0	0
SANDEA+	1	OZ/A	POST A	91	99	77	91	49
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	2	OZ/A	POST A	61	97	69	98	68
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	4	OZ/A	POST A	87	99	77	86	71
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
GRAMAXONE	1	QT/A	POST A	99	87	92	96	55
GRAMAXONE	1	QT/A	POST B					
LSD (P=.05)				44	7	37	11	42
Standard Deviation				28.8	4.5	24.2	7.3	27.3
CV				39.71	5.92	38.44	9.86	56.32

The Ohio State University

GRAPE - WEED CONTROL AND CROP TOLERANCE IN CONCORDS USING SANDEA

Trial ID: GRAPSANDEAW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				POLPY		DIGSA	SOLPT	CHEAL	PLAMA
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	LEAF	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/5/2006	8/8/2006	8/8/2006	8/8/2006	8/8/2006	8/8/2006
Trt-Eval Interval				8 WAT	4 WAT	4 WAT	4 WAT	4 WAT	4 WAT
Sprat Timing				POST A	POST B	POST B	POST B	POST B	POST B
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	16	17	18	19	20	21
UNTREATED CONTROL				0	0	0	0	0	0
SANDEA+	1	OZ/A	POST A	83	0	25	25	25	0
NIS+	0.25	QT/A	POST A						
GRAMAXONE	1	QT/A	POST A						
SANDEA+	1	OZ/A	POST B						
NIS+	0.25	QT/A	POST B						
GRAMAXONE	1	QT/A	POST B						
SANDEA+	2	OZ/A	POST A	99	0	75	25	25	50
NIS+	0.25	QT/A	POST A						
GRAMAXONE	1	QT/A	POST A						
SANDEA+	2	OZ/A	POST B						
NIS+	0.25	QT/A	POST B						
GRAMAXONE	1	QT/A	POST B						
SANDEA+	4	OZ/A	POST A	98	0	88	50	99	81
NIS+	0.25	QT/A	POST A						
GRAMAXONE	1	QT/A	POST A						
SANDEA+	4	OZ/A	POST B						
NIS+	0.25	QT/A	POST B						
GRAMAXONE	1	QT/A	POST B						
GRAMAXONE	1	QT/A	POST A	64	0	0	0	0	0
GRAMAXONE	1	QT/A	POST B						
LSD (P=.05)				26	0	34	50	50	24
Standard Deviation				16.7	0	21.9	32.6	32.6	15.5
CV				24.24	0	58.49	164.57	109.71	59.14

The Ohio State University

GRAPE - WEED CONTROL AND CROP TOLERANCE IN CONCORDS USING SANDEA

Trial ID: GRAPSANDEAW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				POLPY	TAROF		DIGSA	SOLPT
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	LEAF	WEED	WEED
Rating Data Type				CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/8/2006	8/8/2006	9/8/2006	9/8/2006	9/8/2006
Trt-Eval Interval				4 WAT	4 WAT	8 WAT	8 WAT	8 WAT
Sprat Timing				POST B	POST B	POST B	POST B	POST B
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	22	23	24	25	26
UNTREATED CONTROL				0	0	0	0	0
SANDEA+	1	OZ/A	POST A	25	25	0	0	0
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	2	OZ/A	POST A	92	25	0	46	25
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	4	OZ/A	POST A	99	97	0	64	50
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
GRAMAXONE	1	QT/A	POST A	0	0	0	0	0
GRAMAXONE	1	QT/A	POST B					
LSD (P=.05)				34	42	0	50	48
Standard Deviation				22.5	27.4	0	32.3	31.3
CV				52.3	93.43	0	147.1	210.82

The Ohio State University

GRAPE - WEED CONTROL AND CROP TOLERANCE IN CONCORDS USING SANDEA

Trial ID: GRAPSANDEAW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				CHEAL	PLAMA	POLPY	TAROF	
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	FRUIT
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CLUST #
Rating Unit				%	%	%	%	PER VINE
Rating Date				9/8/2006	9/8/2006	9/8/2006	9/8/2006	10/6/2006
Trt-Eval Interval				8 WAT	8 WAT	8 WAT	8 WAT	HARVEST
Sprat Timing				POST B	POST B	POST B	POST B	
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	27	28	29	30	31
UNTREATED CONTROL				0	0	0	0	20
SANDEA+	1	OZ/A	POST A	0	0	0	25	16
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	2	OZ/A	POST A	74	40	50	25	28
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	4	OZ/A	POST A	74	62	74	99	20
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
GRAMAXONE	1	QT/A	POST A	0	0	0	0	16
GRAMAXONE	1	QT/A	POST B					
LSD (P=.05)				50	42	48	42	15
Standard Deviation				32.6	27.4	31.3	27.1	9.9
CV				109.71	134.79	126.49	91.29	49.57

The Ohio State University

GRAPE - WEED CONTROL AND CROP TOLERANCE IN CONCORDS USING SANDEA

Trial ID: GRAPSANDEAW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code							
Crop Code				VITLA	VITLA	VITLA	VITLA
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				CLUST 'WT	50 BERRY WT	SOL SUGAR	TTL ACID
Rating Unit				LBS	GRAMS	%	%
Rating Date				10/6/2006	10/6/2006	10/6/2006	10/6/2006
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST
Sprat Timing							
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	32	33	34	35
UNTREATED CONTROL				3.5	182.9	15.6	1.1
SANDEA+	1	OZ/A	POST A	2	200.5	15.5	1.3
NIS+	0.25	QT/A	POST A				
GRAMAXONE	1	QT/A	POST A				
SANDEA+	1	OZ/A	POST B				
NIS+	0.25	QT/A	POST B				
GRAMAXONE	1	QT/A	POST B				
SANDEA+	2	OZ/A	POST A	5.2	198	15.3	1.3
NIS+	0.25	QT/A	POST A				
GRAMAXONE	1	QT/A	POST A				
SANDEA+	2	OZ/A	POST B				
NIS+	0.25	QT/A	POST B				
GRAMAXONE	1	QT/A	POST B				
SANDEA+	4	OZ/A	POST A	3.2	196.6	15.1	1.3
NIS+	0.25	QT/A	POST A				
GRAMAXONE	1	QT/A	POST A				
SANDEA+	4	OZ/A	POST B				
NIS+	0.25	QT/A	POST B				
GRAMAXONE	1	QT/A	POST B				
GRAMAXONE	1	QT/A	POST A	2.3	184.2	15.8	1.3
GRAMAXONE	1	QT/A	POST B				
LSD (P=.05)				3	23	1	0.2
Standard Deviation				1.76	14.65	0.52	0.13
CV				54.08	7.61	3.36	9.98

The Ohio State University

GREEN ONIONS - WEED CONTROL AND CROP TOLERANCE USING GOALTENDER 1

Trial ID: GRONIONBRANC 2006 | Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio | Investigator: Doug Doohan

TRIAL LOCATION

City: Willard | Trial Status: Final
State/Prov.: Ohio | Trial Reliability: Reliable
Postal Code: 44890 | Initiation Date: 08/04/06
Country: USA | Planned Completion Date: 10/15/06

Objective: To assess Goaltender on green onions for weed control and crop injury.

CROP AND WEED DESCRIPTION

Weed		Code	Common Name	Scientific Name
	1	POROL	common purslane	*Portulaca oleracea L.*
	2	AMAXX	pigweed species	*Amaranth spp.*

Crop 1: ALLCE GREEN ONION Variety: ISHIKURA IMPROVED
Planting Date: 08/04/06 | Planting Method: CONVENTIONAL
Rate: 11 SEEDS/FT | Depth: 0.5 IN
Row Spacing: 2 IN | 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: 41	% OM: 45	Texture: MUCK
% Silt: 10	pH: 5.5	Soil Name: CARLISLE MUCK
% Clay: 4	CEC: 75.4	Fert. Level: HIGH

APPLICATION DESCRIPTION

	A
Application Date:	8/30/2006
Time of Day:	10-11 AM
Application Method:	SPRAY
Application Timing:	POST
Applic. Placement:	BROADCAST
Air Temp., Unit:	68 F
% Relative Humidity:	50
Wind Velocity, Unit:	3 MPH
% Cloud Cover:	80

CROP STAGE AT EACH APPLICATION

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

The Ohio State University

GREEN ONIONS - WEED CONTROL AND CROP TOLERANCE USING GOALTENDER 1

Trial ID: GRONIONBRANC 2006 Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio Investigator: Doug Doohan

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	POROL POST
Stage Scale:	10 IN DIA
Density, Unit:	HIGH PLOT
Weed 2 Code, Stage:	AMAXX POST
Stage Scale:	2-6 IN
Density, Unit:	LOW PLOT

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	35
Nozzle Type:	FLAT FAN
Nozzle Size:	8002VS
Nozzle Spacing, Unit:	15 IN
Nozzles/Row:	4
Band Width, Unit:	60 IN
Boom Height, Unit:	15 IN
Ground Speed, Unit:	2.5 MPH
Spray Volume, Unit:	25 GPA

Trial Comments:

In the Trt-Eval Interval, " WAT" refers to weeks after treatmant.

The Ohio State University

GREEN ONIONS - WEED CONTROL AND CROP TOLERANCE USING GOALTENDER 1

Trial ID: GRONIONBRANC 2006
Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio
Investigator: Doug Doohan

Weed Code								AMAXX
Crop Code				ALLCE	ALLCE	ALLCE	ALLCE	ALLCE
Part Rated				PLANT	PLANT	PLANT	PLANT	WEED
Rating Data Type				STAND COUNT	CHLOROSIS	BURN	STUNT	CONTROL
Rating Unit				PER 12"	%	%	%	%
Rating Date				8/30/2006	9/6/2006	9/6/2006	9/6/2006	9/6/2006
Trt-Eval Interval				PRESPRAY	1 WAT	1 WAT	1 WAT	1 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
CONTROL				53	0	0	0	0
GOALTENDER	1	OZ/A	POST 2 LEAF	53	0	0	0	23
GOALTENDER	2	OZ/A	POST 2 LEAF	53	0	0	0	58
GOALTENDER	3	OZ/A	POST 2 LEAF	59	0	0	0	40
GOALTENDER	6	OZ/A	POST 2 LEAF	57	0	0	0	83
LSD (P=.05)				11	0	0	0	19
Standard Deviation				6.9	0	0	0	12.4
CV				12.45	0	0	0	30.74

The Ohio State University

GREEN ONIONS - WEED CONTROL AND CROP TOLERANCE USING GOALTENDER 1

Trial ID: GRONIONBRANC 2006
Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio
Investigator: Doug Doohan

Weed Code				POROL				AMAXX
Crop Code				ALLCE	ALLCE	ALLCE	ALLCE	ALLCE
Part Rated				WEED	PLANT	PLANT	PLANT	WEED
Rating Data Type				CONTROL	CHLOROSIS	BURN	STUNT	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				9/6/2006	9/13/2006	9/13/2006	9/13/2006	9/13/2006
Trt-Eval Interval				1 WAT	2 WAT	2 WAT	2 WAT	2 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
CONTROL				0	0	0	0	0
GOALTENDER	1	OZ/A	POST 2 LEAF	79	0	0	0	13
GOALTENDER	2	OZ/A	POST 2 LEAF	88	0	0	0	70
GOALTENDER	3	OZ/A	POST 2 LEAF	88	0	0	0	60
GOALTENDER	6	OZ/A	POST 2 LEAF	93	0	0	0	89
LSD (P=.05)				7	0	0	0	25
Standard Deviation				4.3	0	0	0	16.4
CV				6.18	0	0	0	35.42

The Ohio State University

GREEN ONIONS - WEED CONTROL AND CROP TOLERANCE USING GOALTENDER 1

Trial ID: GRONIONBRANC 2006
Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio
Investigator: Doug Doohan

Weed Code				POROL				AMAXX
Crop Code				ALLCE	ALLCE	ALLCE	ALLCE	ALLCE
Part Rated				WEED	PLANT	PLANT	PLANT	WEED
Rating Data Type				CONTROL	CHLOROSIS	BURN	STUNT	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				9/13/2006	9/20/2006	9/20/2006	9/20/2006	9/20/2006
Trt-Eval Interval				2 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
CONTROL				0	0	0	0	0
GOALTENDER	1	OZ/A	POST 2 LEAF	70	0	0	0	30
GOALTENDER	2	OZ/A	POST 2 LEAF	86	0	0	0	69
GOALTENDER	3	OZ/A	POST 2 LEAF	88	0	0	0	70
GOALTENDER	6	OZ/A	POST 2 LEAF	96	0	0	0	89
LSD (P=.05)				9	0	0	0	19
Standard Deviation				5.8	0	0	0	12.4
CV				8.48	0	0	0	24.13

The Ohio State University

GREEN ONIONS - WEED CONTROL AND CROP TOLERANCE USING GOALTENDER 1

Trial ID: GRONIONBRANC 2006
Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio
Investigator: Doug Doohan

Weed Code				POROL			
Crop Code				ALLCE	ALLCE	ALLCE	ALLCE
Part Rated				WEED	PLANT	PLANT	PLANT
Rating Data Type				CONTROL	NO/PLOT	WT/PLOT	AVE WT/PLOT
Rating Unit				%	EACH	LBS	LBS
Rating Date				9/20/2006	10/10/2006	10/10/2006	10/10/2006
Trt-Eval Interval				3 WAT	HARVEST	HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	16	17	18	19
CONTROL				0	53	0.59	0.01
GOALTENDER	1	OZ/A	POST 2 LEAF	71	57	0.72	0.01
GOALTENDER	2	OZ/A	POST 2 LEAF	84	51	0.64	0.01
GOALTENDER	3	OZ/A	POST 2 LEAF	81	59	0.64	0.01
GOALTENDER	6	OZ/A	POST 2 LEAF	92	54	0.69	0.01
LSD (P=.05)				6	15	0.2	0.002
Standard Deviation				4	9.6	0.104	0.002
CV				6.11	17.54	15.92	13.19

The Ohio State University

GREEN ONIONS - WEED CONTROL AND CROP TOLERANCE USING GOALTENDER 2

Trial ID: GRONIONBUURMA 2006 Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio Investigator: Doug Doohan

TRIAL LOCATION

City: Willard Trial Status:Final
State/Prov.: Ohio Trial Reliability: Reliable
Postal Code: 44890 Initiation Date: 08/04/06
Planned Completion Date: 10/15/06

Objective: To assess Goaltender on green onions for weed control and crop injury.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	POROL	common purslane	*Portulaca oleracea L.*
2	AMAXX	pigweed species	*Amaranth spp.*

Crop 1: ALLCE GREEN ONION Variety: ISHIKURA
Planting Date: 08/04/06 Planting Method: CONVENTIONAL
Rate: 11 SEEDS/FT Depth: 0.5 IN
Row Spacing: 2 IN Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 3 FT Plot Length, Unit: 15 FT
Site Type: LEVEL FIELD Reps: 4
Tillage Type: CONVENTIONAL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 41 % OM: 45 Texture: MUCK
% Silt: 10 pH: 5.5 Soil Name: CARLISLE MUCK
% Clay: 4 CEC: 75.4 Fert. Level: HIGH

APPLICATION DESCRIPTION

	A
Application Date:	8/30/2006
Time of Day:	10-11 AM
Application Method:	SPRAY
Application Timing:	POST
Applic. Placement:	BROADCAST
Air Temp., Unit:	66 F
% Relative Humidity:	87
Wind Velocity, Unit:	5 MPH
% Cloud Cover:	80

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	ALLCE POST
Stage Scale:	2 LF
Height, Unit:	3 IN

The Ohio State University

GREEN ONIONS - WEED CONTROL AND CROP TOLERANCE USING GOALTENDER 2

Trial ID: GRONIONBUURMA 2006 Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio Investigator: Doug Doohan

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	POROL POST
Stage Scale:	6 IN DIAM
Density, Unit:	HIGH PLOT
Weed 2 Code, Stage:	AMAXX POST
Stage Scale:	4 IN
Density, Unit:	MEDIUM PLOT

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	35
Nozzle Type:	FLAT FAN
Nozzle Size:	8002VS
Nozzle Spacing, Unit:	15 IN
Nozzles/Row:	4
Band Width, Unit:	60 IN
Boom Height, Unit:	15 IN
Ground Speed, Unit:	2.5 MPH
Spray Volume, Unit:	25 GPA

Trial Comments:

In the Trt-Eval Interval, " WAT" refers to weeks after treatmant.

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GREEN ONIONS - WEED CONTROL AND CROP TOLERANCE USING GOALTENDER 2

Trial ID: GRONIONBUURMA 2006
Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio
Investigator: Doug Doohan

Weed Code								AMAXX
Crop Code				ALLCE	ALLCE	ALLCE	ALLCE	ALLCE
Part Rated				PLANT	PLANT	PLANT	PLANT	WEED
Rating Data Type				STAND COUNT	CHLOROSIS	BURN	STUNT	CONTROL
Rating Unit				PER 12"	%	%	%	%
Rating Date				8/30/2006	9/6/2006	9/6/2006	9/6/2006	9/6/2006
Trt-Eval Interval				PRE SPRAY	1 WAT	1 WAT	1 WAT	1 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
CONTROL				38	0	0	0	0
GOALTENDER	1	OZ/A	POST 2 LEAF	38	0	0	0	28
GOALTENDER	2	OZ/A	POST 2 LEAF	35	0	0	0	87
GOALTENDER	3	OZ/A	POST 2 LEAF	39	0	0	0	97
GOALTENDER	6	OZ/A	POST 2 LEAF	39	0	0	0	99
LSD (P=.05)				8	0	0	0	18
Standard Deviation				5.3	0	0	0	11.5
CV				14.12	0	0	0	18.59

The Ohio State University

GREEN ONIONS - WEED CONTROL AND CROP TOLERANCE USING GOALTENDER 2

Trial ID: GRONIONBUURMA 2006
Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio
Investigator: Doug Doohan

Weed Code				POROL				AMAXX
Crop Code				ALLCE	ALLCE	ALLCE	ALLCE	ALLCE
Part Rated				WEED	PLANT	PLANT	PLANT	WEED
Rating Data Type				CONTROL	CHLOROSIS	BURN	STUNT	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				9/6/2006	9/13/2006	9/13/2006	9/13/2006	9/13/2006
Trt-Eval Interval				1 WAT	2 WAT	2 WAT	2 WAT	2 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
CONTROL				0	0	0	0	0
GOALTENDER	1	OZ/A	POST 2 LEAF	19	0	0	0	3
GOALTENDER	2	OZ/A	POST 2 LEAF	80	0	0	0	56
GOALTENDER	3	OZ/A	POST 2 LEAF	95	0	0	0	87
GOALTENDER	6	OZ/A	POST 2 LEAF	99	0	0	0	70
LSD (P=.05)				5	0	0	0	37
Standard Deviation				3.4	0	0	0	24
CV				5.78	0	0	0	55.86

The Ohio State University

GREEN ONIONS - WEED CONTROL AND CROP TOLERANCE USING GOALTENDER 2

Trial ID: GRONIONBUURMA 2006
Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio
Investigator: Doug Doohan

Weed Code				POROL				AMAXX
Crop Code				ALLCE	ALLCE	ALLCE	ALLCE	ALLCE
Part Rated				WEED	PLANT	PLANT	PLANT	WEED
Rating Data Type				CONTROL	CHLOROSIS	BURN	STUNT	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				9/13/2006	9/20/2006	9/20/2006	9/20/2006	9/20/2006
Trt-Eval Interval				2 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
CONTROL				0	0	0	0	0
GOALTENDER	1	OZ/A	POST 2 LEAF	3	0	0	0	8
GOALTENDER	2	OZ/A	POST 2 LEAF	75	0	0	0	51
GOALTENDER	3	OZ/A	POST 2 LEAF	90	0	0	0	89
GOALTENDER	6	OZ/A	POST 2 LEAF	94	0	0	0	97
LSD (P=.05)				11	0	0	0	20
Standard Deviation				7.2	0	0	0	13.2
CV				13.83	0	0	0	27.03

The Ohio State University

GREEN ONIONS - WEED CONTROL AND CROP TOLERANCE USING GOALTENDER 2

Trial ID: GRONIONBUURMA 2006
Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio
Investigator: Doug Doohan

Weed Code				POROL			
Crop Code				ALLCE	ALLCE	ALLCE	ALLCE
Part Rated				WEED	PLANT	PLANT	PLANT
Rating Data Type				CONTROL	#/ PLOT	WT/PLOT	AVE WT/PLOT
Rating Unit				%	EACH	LBS	LBS
Rating Date				9/20/2006	10/10/2006	10/10/2006	10/10/2006
Trt-Eval Interval				3 WAT	HARVEST	HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	16	17	18	19
CONTROL				0	39	0.66	0.02
GOALTENDER	1	OZ/A	POST 2 LEAF	1	37	0.65	0.02
GOALTENDER	2	OZ/A	POST 2 LEAF	35	33	0.54	0.02
GOALTENDER	3	OZ/A	POST 2 LEAF	84	40	0.66	0.02
GOALTENDER	6	OZ/A	POST 2 LEAF	90	38	0.64	0.02
LSD (P=.05)				30	8	0.3	0.009
Standard Deviation				19.1	5	0.226	0.006
CV				45.64	13.52	35.86	35.41

The Ohio State University

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

Trial ID: GREENSPOSTSW2006 | Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio | Investigator: Doug Doohan

TRIAL LOCATION

City: Willard | Trial Status: Final
State/Prov.: Ohio | Trial Reliability: Reliable
Postal Code: 44890 | Initiation Date: 09/05/06
Country: USA | Planned Completion Date: 11/30/06

Objective: Collect efficacy and crop safety data to support herbicide registration in specialty crops.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	POROL	common purslane	*Portulaca oleracea L.*
2	AMAXX	pigweed species	*Amaranth spp.*

Crop 1: BRSOA COLLARD | Variety: CHAMPION
Planting Date: 09/05/06 | Planting Method: CONVENTIONAL
Rate: 12 SEEDS/FT | Depth: 0.50 IN
Row Spacing: 12 IN | Seed Bed: CONVENTIONAL
Soil Moisture: MOIST | Emergence Date: 09/15/06

Crop 2: MUSGN MUSTARD GREENS | Variety: GREEN WAVE INDIA
Planting Date: 09/05/06 | Planting Method: CONVENTIONAL
Rate:12 SEEDS/FT | Depth: 0.50 IN
Row Spacing: 12 IN | Seed Bed: CONVENTIONAL
Emergence Date: 09/15/06

SITE AND DESIGN

Plot Width, Unit: 6 FT | Plot Length, Unit: 10 FT
Site Type: RAISED BED | Reps:4
Tillage Type: CONVENTIONAL | Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 41	% OM: 45	Texture: MUCK
% Silt: 10	pH: 5.5	Soil Name: CARLISLE MUCK
% Clay: 4	CEC: 75.4	Fert. Level: HIGH

APPLICATION DESCRIPTION

	A
Application Date:	9/18/2006
Time of Day:	10 AM-1PM
Application Method:	SPRAY
Application Timing:	POST
Applic. Placement:	BROADCAST
Air Temp., Unit:	75 F
% Relative Humidity:	63
Wind Velocity, Unit:	7 MPH
% Cloud Cover:	50

The Ohio State University

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

Trial ID: GREENSPOSTSW2006 Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A	
Crop 1 Code, Stage:	BRSOA	POST
Stage Scale:	2 TRUE LF	
Height, Unit:	0.25 IN	
Crop 2 Code, Stage:	MUSGN	POST
Stage Scale:	1 TRUE LF	
Height, Unit:	1 IN	

WEED STAGE AT EACH APPLICATION

	A	
Weed 1 Code, Stage:	POROL	POST
Stage Scale:	COTY-1TRUE	
Density, Unit:	HIGH	PLOT
Weed 2 Code, Stage:	AMAXX	POST
Stage Scale:	COTY-1TRUE	
Density, Unit:	HIGH	PLOT

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	40
Nozzle Type:	FLAT FAN
Nozzle Size:	8002VS
Nozzle Spacing, Unit:	18 IN
Nozzles/Row:	4
Band Width, Unit:	72 IN
Boom Height, Unit:	18 IN
Ground Speed, Unit:	2.5 MPH
Spray Volume, Unit:	25 GPA

Trial Comments:

In the Trt-Eval Interval, " WAT" refers to weeks after treatmant.

The Ohio State University

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

Trial ID: GREENSPOSTSW2006
Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio
Investigator: Doug Doohan

Weed Code						POROL	AMAXX		
Crop Code				MUSGN	BRSOA	ALL	ALL	MUSGN	BRSOA
Part Rated				PLANT	PLANT	WEED	WEED	PLANT	PLANT
Rating Data Type				INJURY	INJURY	CONTROL	CONTROL	INJURY	INJURY
Rating Unit				%	%	%	%	%	%
Rating Date				9/25/2006	9/25/2006	9/25/2006	9/25/2006	10/10/2006	10/10/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	3 WAT	3 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
CONTROL				0	0	0	0	0	0
DUAL MAGNUM	0.504	PT/A	POST	0	0	0	0	0	0
DUAL MAGNUM	0.745	PT/A	POST	0	0	0	0	5	0
DUAL MAGNUM	1.32	PT/A	POST	3	0	4	0	5	0
OUTLOOK	8	OZ/A	POST	14	0	3	0	5	0
OUTLOOK	13.9	OZ/A	POST	28	0	13	0	14	0
OUTLOOK	18	OZ/A	POST	36	0	3	0	18	11
PROWL H_2O	0.375	QT/A	POST	6	0	3	0	15	0
PROWL H_2O	0.75	QT/A	POST	10	0	5	0	25	5
PROWL H_2O	1.05	QT/A	POST	3	0	0	0	24	0
PROWL H_2O	1.5	QT/A	POST	23	0	8	0	53	8
LSD (P=.05)				11	0	8	0	18	8
Standard Deviation				7.5	0	5.3	0	12.6	5.6
CV				67.74	0	159.89	0	85.37	261.41

The Ohio State University

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

Trial ID: GREENSPOSTSW2006
Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio
Investigator: Doug Doohan

Weed Code				POROL	AMAXX				
Crop Code				ALL	ALL	MUSGN	BRSOA	MUSGN	BRSOA
Part Rated				WEED	WEED	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CONTROL	CONTROL	INJURY	INJURY	YIELD	YIELD
Rating Unit				%	%	%	%	LBS/PLOT	LBS/PLOT
Rating Date				10/10/2006	10/10/2006	11/6/2006	11/6/2006	11/6/2006	11/6/2006
Trt-Eval Interval				3 WAT	3 WAT	7 WAT	7 WAT	HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
CONTROL				0	0	0	0	0.36	0.28
DUAL MAGNUM	0.504	PT/A	POST	18	18	0	0	0.26	0.29
DUAL MAGNUM	0.745	PT/A	POST	51	80	0	0	0.26	0.31
DUAL MAGNUM	1.32	PT/A	POST	38	40	0	0	0.29	0.35
OUTLOOK	8	OZ/A	POST	33	56	3	0	0.24	0.28
OUTLOOK	13.9	OZ/A	POST	48	79	14	0	0.24	0.34
OUTLOOK	18	OZ/A	POST	34	36	13	0	0.25	0.3
PROWL H_2O	0.375	QT/A	POST	74	54	13	0	0.21	0.27
PROWL H_2O	0.75	QT/A	POST	75	18	23	0	0.21	0.31
PROWL H_2O	1.05	QT/A	POST	78	65	30	0	0.24	0.24
PROWL H_2O	1.5	QT/A	POST	79	24	63	29	0.17	0.24
LSD (P=.05)				39	53	18	4	0.2	0.1
Standard Deviation				27.1	37	12.5	2.6	0.111	0.075
CV				56.83	86.83	87.79	98.51	44.69	25.78

The Ohio State University

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

Trial ID: GREENSPRESW2006 | Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio | Investigator: Doug Doohan

TRIAL LOCATION

City: Willard | Trial Status: Final
State/Prov.: Ohio | Trial Reliability: Reliable
Postal Code: 44890 | Initiation Date: 09/18/06
Country: USA | Planned Completion Date: 12/30/06

Objective: Collect efficacy and crop safety data to support herbicide registration in specialty crops.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	POROL	common purslane	*Portulaca oleracea L.*
2	AMAXX	pigweed species	*Amaranth spp.*

Crop 1: BRSOA COLLARD | Variety: CHAMPION
Planting Date: 09/18/06 | Planting Method: CONVENTIONAL
Rate: 12 SEEDS/FT | Depth: 0.50 IN
Row Spacing: 12 IN | Seed Bed: CONVENTIONAL
Soil Moisture: MOIST | Emergence Date: 09/28/06

Crop 2: MUSGN MUSTARD GREEN | Variety: GREEN WAVE INDIA
Planting Date: 09/18/06 | Planting Method: CONVENTIONAL
Rate: 12 SEEDS/FOOT | Depth: 0.50 IN
Row Spacing: 12 IN | Seed Bed: CONVENTIONAL
Emergence Date: 09/28/06

SITE AND DESIGN

Plot Width, Unit: 6 FT | Plot Length, Unit: 10 FT
Site Type: RAISED BED | Reps: 4
Tillage Type: CONVENTIONAL | Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 41	% OM: 45	Texture: MUCK
% Silt: 10	pH: 5.5	Soil Name: CARLISLE MUCK
% Clay: 4	CEC: 75.4	Fert. Level: HIGH

APPLICATION DESCRIPTION

	A
Application Date:	9/21/2006
Time of Day:	10AM-12PM
Application Method:	SPRAY
Application Timing:	PRE
Applic. Placement:	BROADCAST
Air Temp., Unit:	62 F
% Relative Humidity:	40
Wind Velocity, Unit:	2 MPH
% Cloud Cover:	0

The Ohio State University

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

Trial ID: GREENSPRESW2006 Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A	
Crop 1 Code, Stage:	BRSOA	PRE
Stage Scale:	.	
Height, Unit:	. .	
Crop 2 Code, Stage:	MUSGN	PRE
Stage Scale:	.	
Height, Unit:	. .	

WEED STAGE AT EACH APPLICATION

	A	
Weed 1 Code, Stage:	POROL	PRE
Stage Scale:	.	
Density, Unit:	. .	
Weed 2 Code, Stage:	AMAXX	PRE
Stage Scale:	.	
Density, Unit:	. .	

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	40
Nozzle Type:	FLAT FAN
Nozzle Size:	8002VS
Nozzle Spacing, Unit:	18 IN
Nozzles/Row:	4
Band Width, Unit:	72 IN
Boom Height, Unit:	18 IN
Ground Speed, Unit:	2.5 MPH
Spray Volume, Unit:	25 GPA

Trial Comments:

In the Trt-Eval Interval, " WAT" refers to weeks after treatmant.

The Ohio State University

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

Trial ID: GREENSPRESW2006
Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio
Investigator: Doug Doohan

Weed Code								POROL
Crop Code				MUSGN	BRSOA	MUSGN	BRSOA	ALL
Part Rated				PLANT	PLANT	PLANT	PLANT	WEED
Rating Data Type				INJURY	INJURY	INJURY	INJURY	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				9/28/2006	9/28/2006	10/12/2006	10/12/2006	10/12/2006
Trt-Eval Interval				1 WAT	1 WAT	3 WAT	3 WAT	3 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
UNTREATED CONTROL				0	0	0	0	0
DUAL MAGNUM	0.504	PT/A	PRE	0	0	8	0	95
DUAL MAGNUM	0.745	PT/A	PRE	0	0	11	0	94
GOALTENDER	0.25	QT/A	PRE	0	0	63	1	99
OUTLOOK	8	OZ/A	PRE	0	0	16	0	96
OUTLOOK	13.9	OZ/A	PRE	0	0	59	3	96
OUTLOOK	18	OZ/A	PRE	0	0	71	3	99
PROWL H_2O	0.375	QT/A	PRE	0	0	11	3	91
PROWL H_2O	0.75	QT/A	PRE	0	0	5	0	95
PROWL H_2O	1.05	QT/A	PRE	0	0	4	0	96
PROWL H_2O	1.5	QT/A	PRE	0	0	13	0	96
SPARTAN	3.2	OZ/A	PRE	0	0	9	0	95
SPARTAN	4.8	OZ/A	PRE	0	0	13	0	96
LSD (P=.05)				0	0	14	3	4
Standard Deviation				0	0	10	2.1	2.5
CV				0	0	49.95	341.94	2.76

The Ohio State University

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

Trial ID: GREENSPRESW2006
Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio
Investigator: Doug Doohan

Weed Code				AMAXX		
Crop Code				ALL	MUSGN	BRSOA
Part Rated				WEED	PLANT	PLANT
Rating Data Type				CONTROL	INJURY	INJURY
Rating Unit				%	%	%
Rating Date				10/12/2006	10/26/2006	10/26/2006
Trt-Eval Interval				3 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8
UNTREATED CONTROL				0	0	0
DUAL MAGNUM	0.504	PT/A	PRE	95	0	0
DUAL MAGNUM	0.745	PT/A	PRE	95	0	0
GOALTENDER	0.25	QT/A	PRE	99	43	8
OUTLOOK	8	OZ/A	PRE	98	8	8
OUTLOOK	13.9	OZ/A	PRE	96	0	0
OUTLOOK	18	OZ/A	PRE	99	56	0
PROWL H_2O	0.375	QT/A	PRE	91	8	0
PROWL H_2O	0.75	QT/A	PRE	95	0	0
PROWL H_2O	1.05	QT/A	PRE	94	0	0
PROWL H_2O	1.5	QT/A	PRE	96	0	0
SPARTAN	3.2	OZ/A	PRE	95	0	0
SPARTAN	4.8	OZ/A	PRE	90	0	0
LSD (P=.05)				4	21	8
Standard Deviation				2.8	14.6	5.7
CV				3.17	179.58	535.89

The Ohio State University

HERBS - WEED CONTROL AND CROP TOLERANCE WITH POST HERBICIDES

Trial ID: HERBSPOSTSW2006
Location: Willard, Ohio

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

TRIAL LOCATION

City: Willard
State/Prov.: Ohio
Postal Code: 44890
Country: USA

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 09/05/06
Planned Completion Date: 12/30/06

Objective: Collect efficacy and crop safety data to support herbicide registration in specialty crops.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	POROL	common purslane	*Portulaca oleracea L.*
2	AMAXX	pigweed species	*Amaranth spp.*

Crop 1: CILAN CILANTRO
Planting Date: 09/05/06
Rate: 12 SEEDS/FT
Row Spacing: 12 IN
Soil Moisture: DRY

Variety: SANTO
Planting Method: CONVENTIONAL
Depth: 0.50 IN
Seed Bed: CONVENTIONAL
Emergence Date: 09/15/06

Crop 2: OCIBA BASIL
Planting Date: 09/05/06
Rate: 12 SEEDS/FT
Row Spacing: 12 IN
Soil Moisture: DRY

Variety: ITALIAN LARGE LEAF
Planting Method: CONVENTIONAL
Depth: 0.50 IN
Seed Bed: CONVENTIONAL
Emergence Date: 09/15/06

SITE AND DESIGN

Plot Width, Unit: 6 FT
Site Type: RAISED BED
Tillage Type: CONVENTIONAL

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

SOIL DESCRIPTION

% Sand: 41
% Silt: 10
% Clay: 4

% OM: 45
pH: 5.5
CEC: 75.4

Texture: MUCK
Soil Name: CARLISLE MUCK
Fert. Level: HIGH

APPLICATION DESCRIPTION

	A
Application Date:	9/18/2006
Time of Day:	10 AM-11:30 AM
Application Method:	SPRAY
Application Timing:	POST
Applic. Placement:	BROADCAST
Air Temp., Unit:	75 F
% Relative Humidity:	63
Wind Velocity, Unit:	7 MPH
% Cloud Cover:	50

The Ohio State University

HERBS - WEED CONTROL AND CROP TOLERANCE WITH POST HERBICIDES

Trial ID: HERBSPOSTSW2006 Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A	
Crop 1 Code, Stage:	CILAN	EPOST
Stage Scale:	1 TRUE LF	
Height, Unit:	0.5 IN	
Crop 2 Code, Stage:	OCIBA	EPOST
Stage Scale:	COTYLEDON	
Height, Unit:	0.25 IN	

WEED STAGE AT EACH APPLICATION

	A	
Weed 1 Code, Stage:	POROL	POST
Stage Scale:	COTY-1TR	
Density, Unit:	HIGH	PLOT
Weed 2 Code, Stage:	AMAXX	POST
Stage Scale:	COTY-1TR	
Density, Unit:	HIGH	PLOT

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	40
Nozzle Type:	FLAT FAN
Nozzle Size:	8002VS
Nozzle Spacing, Unit:	18 IN
Nozzles/Row:	4
Band Width, Unit:	72 IN
Boom Height, Unit:	18 IN
Ground Speed, Unit:	2.5 MPH
Spray Volume, Unit:	25 GPA

Trial Comments:

In the Trt-Eval Interval, " WAT" refers to weeks after treatmant.

The Ohio State University

HERBS - WEED CONTROL AND CROP TOLERANCE WITH POST HERBICIDES

Trial ID: HERBSPOSTSW2006
Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio
Investigator: Doug Doohan

Weed Code						POROL	AMAXX		
Crop Code				CILAN	OCIBA	ALL	ALL	CILAN	OCIBA
Part Rated				PLANT	PLANT	WEED	WEED	PLANT	PLANT
Rating Data Type				INJURY	INJURY	CONTROL	CONTROL	INJURY	INJURY
Rating Unit				%	%	%	%	%	%
Rating Date				8/25/2005	8/25/2005	8/25/2005	8/25/2005	10/9/2006	10/9/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	3 WAT	3 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
UNTREATED CONTROL				0	0	0	0	0	0
CAPAROL	1	QT/A	POST	28	75	98	99	35	100
DUAL MAGNUM +	0.34	QT/A	POST	56	68	91	96	55	91
NORTRON+	0.164	QT/A	POST						
NIS	0.25	QT/A	POST						
GOALTENDER	0.25	QT/A	POST	94	75	99	99	90	100
KERB	192	OZ/A	POST	15	24	25	25	28	79
LOROX	16	OZ/A	POST	14	100	99	99	20	98
LOROX	32	OZ/A	POST	4	100	99	99	31	100
NORTRON+	2	QT/A	POST	0	31	40	50	3	63
NIS	0.25	QT/A	POST						
OUTLOOK	0.083	QT/A	POST	0	20	20	25	0	30
OUTLOOK	0.333	QT/A	POST	14	64	63	74	5	58
PROWL H2O	0.526	QT/A	POST	6	35	53	47	3	66
STINGER	0.12	QT/A	POST	21	21	21	25	40	0
STINGER	0.25	QT/A	POST	23	0	0	0	53	0
LSD (P=.05)				22	47	39	47	22	21
Standard Deviation				15.5	32.9	27	32.6	15.7	14.9
CV				73.69	69.89	49.52	57.48	56.4	24.73

The Ohio State University

HERBS - WEED CONTROL AND CROP TOLERANCE WITH POST HERBICIDES

Trial ID: HERBSPOSTSW2006
Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio
Investigator: Doug Doohan

Weed Code				POROL	AMAXX		
Crop Code				ALL	ALL	CILAN	CILAN
Part Rated				WEED	WEED	PLANT	PLANT
Rating Data Type				CONTROL	CONTROL	INJURY	YLD
Rating Unit				%	%	%	G / PLOT
Rating Date				10/9/2006	10/9/2006	10/31/2006	11/8/2006
Trt-Eval Interval				3 WAT	3 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10
UNTREATED CONTROL				0	0	0	37.5
CAPAROL	1	QT/A	POST	99	100	28	16.99
DUAL MAGNUM +	0.34	QT/A	POST	86	96	54	11.03
NORTRON+	0.164	QT/A	POST				
NIS	0.25	QT/A	POST				
GOALTENDER	0.25	QT/A	POST	100	100	73	0
KERB	192	OZ/A	POST	70	85	20	28.41
LOROX	16	OZ/A	POST	88	93	13	28.05
LOROX	32	OZ/A	POST	99	99	13	26.18
NORTRON+	2	QT/A	POST	79	91	18	34.2
NIS	0.25	QT/A	POST				
OUTLOOK	0.083	QT/A	POST	18	18	0	41.19
OUTLOOK	0.333	QT/A	POST	55	67	6	28.06
PROWL H2O	0.526	QT/A	POST	70	85	0	39.59
STINGER	0.12	QT/A	POST	0	0	30	16.82
STINGER	0.25	QT/A	POST	0	0	60	19.09
LSD (P=.05)				22	25	38	8
Standard Deviation				15.1	17.3	26.6	5.711
CV				25.79	27.02	110.5	22.7

The Ohio State University

HERBS - WEED CONTROL AND CROP TOLERANCE WITH PRE HERBICIDES

Trial ID: HERBSPOSTSW2006 Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio Investigator: Doug Doohan

TRIAL LOCATION

City: Willard Trial Status: Final
State/Prov.: Ohio Trial Reliability: Reliable
Postal Code: 44890 Initiation Date: 09/18/06
Country: USA Planned Completion Date: 12/30/06

Objective: Collect efficacy and crop safety data to support herbicide registration in specialty crops.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	POROL	common purslane	*Portulaca oleracea L.*
2	AMAXX	pigweed species	*Amaranth spp.*

Crop 1: CILAN CILANTRO Variety: SANTO
Planting Date: 09/18/06 Planting Method: CONVENTIONAL
Rate: 12 SEEDS / FT Depth: 0.50 IN
Row Spacing: 12 IN Seed Bed: CONVENTIONAL
Soil Moisture: DRY Emergence Date: 09/28/06

Crop 2: OCIBA BASIL Variety: ITALIAN LARGE LEAF
Planting Date: 09/18/06 Planting Method: CONVENTIONAL
Rate: 12 SEEDS / FT Depth: 0.50 IN
Row Spacing: 12 IN Seed Bed: CONVENTIONAL
Soil Moisture: DRY Emergence Date: 09/28/06

SITE AND DESIGN

Plot Width, Unit: 6 FT Plot Length, Unit: 10 FT
Site Type: RAISED BED Reps: 4
Tillage Type: CONVENTIONAL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 41 % OM: 45 Texture: MUCK
% Silt: 10 pH: 5.5 Soil Name: CARLISLE MUCK
% Clay: 4 CEC: 75.4 Fert. Level: HIGH

APPLICATION DESCRIPTION

	A
Application Date:	9/21/2006
Time of Day:	10AM-12PM
Application Method:	SPRAY
Application Timing:	PRE
Applic. Placement:	BROADCAST
Air Temp., Unit:	62 F
% Relative Humidity:	40
Wind Velocity, Unit:	2 MPH
% Cloud Cover:	0

The Ohio State University

HERBS - WEED CONTROL AND CROP TOLERANCE WITH PRE HERBICIDES

Trial ID: HERBSPOSTSW2006 Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A	
Crop 1 Code, Stage:	CILAN	PRE
Stage Scale:	.	
Height, Unit:	. .	
Crop 2 Code, Stage:	OCIBA	PRE
Stage Scale:	.	
Height, Unit:	. .	

WEED STAGE AT EACH APPLICATION

	A	
Weed 1 Code, Stage:	POROL	PRE
Stage Scale:	.	
Density, Unit:	. .	
Weed 2 Code, Stage:	AMAXX	PRE
Stage Scale:	.	
Density, Unit:	. .	

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	40
Nozzle Type:	FLAT FAN
Nozzle Size:	8002VS
Nozzle Spacing, Unit:	18 IN
Nozzles/Row:	4
Band Width, Unit:	72 IN
Boom Height, Unit:	18 IN
Ground Speed, Unit:	2.5 MPH
Spray Volume, Unit:	25 GPA

Trial Comments:

In the Trt-Eval Interval, " WAT" refers to weeks after treatmant.

The Ohio State University

HERBS - WEED CONTROL AND CROP TOLERANCE WITH PRE HERBICIDES

Trial ID: HERBSPOSTSW2006
Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				CILAN	OCIBA	CILAN	CILAN	OCIBA
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				INJURY	INJURY	CHLOROSIS	STUNT	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				9/28/2006	9/28/2006	10/12/2006	10/12/2006	10/12/2006
Trt-Eval Interval				1 WAT	1 WAT	3 WAT	3 WAT	3 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
CONTROL				0	0	0	0	0
BARRICADE	0.53	QT/A	PRE	0	0	0	0	0
CAPAROL	32	OZ/A	PRE	0	0	0	0	0
COMMAND	0.5	QT/A	PRE	0	0	0	0	0
COMMAND	1	QT/A	PRE	0	0	14	0	14
DEFINE	9.6	OZ/A	PRE	0	0	0	0	0
DEFINE	19.2	OZ/A	PRE	0	0	0	0	0
DUAL MAGNUM	0.34	QT/A	PRE	0	0	0	0	0
GOALTENDER	0.25	QT/A	PRE	0	0	0	0	0
KIH-485	1.33	OZ/A	PRE	0	0	0	0	0
KIH-485	4	OZ/A	PRE	0	0	0	0	0
KERB	192	OZ/A	PRE	0	0	0	0	0
LOROX	16	OZ/A	PRE	0	0	0	0	0
LOROX	32	OZ/A	PRE	0	0	0	0	0
LOROX	64	OZ/A	PRE	0	0	0	0	0
NORTRON	1	QT/A	PRE	0	0	0	0	0
NORTRON	2	QT/A	PRE	0	0	0	0	0
OUTLOOK	0.083	QT/A	PRE	0	0	0	0	0
OUTLOOK	0.333	QT/A	PRE	0	0	0	0	0
PROWL H2O	0.526	QT/A	PRE	0	0	0	0	0
SPARTAN	1.07	OZ/A	PRE	0	0	0	0	0
SPARTAN	2.13	OZ/A	PRE	0	0	0	0	0
LSD (P=.05)				0	0	1	0	1
Standard Deviation				0	0	0.5	0	0.5
CV				0	0	85.28	0	85.28

The Ohio State University

HERBS - WEED CONTROL AND CROP TOLERANCE WITH PRE HERBICIDES

Trial ID: HERBSPOSTSW2006
Study Dir.: Doug Doohan and T. Koch
Location: Willard, Ohio
Investigator: Doug Doohan

Weed Code					POROL	AMAXX		
Crop Code				OCIBA	ALL	ALL	CILAN	CILAN
Part Rated				PLANT	WEED	WEED	PLANT	PLANT
Rating Data Type				STUNT	CONTROL	CONTROL	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%
Rating Date				10/12/2006	10/12/2006	10/12/2006	10/26/2006	10/26/2006
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
CONTROL				0	0	0	0	0
BARRICADE	0.53	QT/A	PRE	0	99	98	0	0
CAPAROL	32	OZ/A	PRE	4	99	99	0	73
COMMAND	0.5	QT/A	PRE	4	99	97	0	0
COMMAND	1	QT/A	PRE	8	99	99	38	38
DEFINE	9.6	OZ/A	PRE	11	99	99	0	10
DEFINE	19.2	OZ/A	PRE	13	98	99	0	0
DUAL MAGNUM	0.34	QT/A	PRE	3	98	99	0	0
GOALTENDER	0.25	QT/A	PRE	13	99	99	0	44
KIH-485	1.33	OZ/A	PRE	13	99	99	0	0
KIH-485	4	OZ/A	PRE	14	99	99	0	0
KERB	192	OZ/A	PRE	5	91	98	0	0
LOROX	16	OZ/A	PRE	5	90	98	0	48
LOROX	32	OZ/A	PRE	6	99	99	0	55
LOROX	64	OZ/A	PRE	3	98	99	0	0
NORTRON	1	QT/A	PRE	3	97	99	0	0
NORTRON	2	QT/A	PRE	6	99	99	0	0
OUTLOOK	0.083	QT/A	PRE	4	97	99	0	0
OUTLOOK	0.333	QT/A	PRE	13	99	99	0	0
PROWL H2O	0.526	QT/A	PRE	4	86	99	0	0
SPARTAN	1.07	OZ/A	PRE	0	98	99	0	0
SPARTAN	2.13	OZ/A	PRE	0	97	99	0	0
LSD (P=.05)				8	3	2	3	12
Standard Deviation				5.4	2.4	1.1	2	8.1
CV				92.43	2.58	1.21	119.75	67.01

The Ohio State University

PEPPERS - TOLERANCE OF BANANA PEPPER TO DUAL MAGNUM AND COMMAND

Trial ID: PEPBAJACHFRE 2006 | Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio | Investigator: Doug Doohan

TRIAL LOCATION

City: Wooster | Trial Status: Final
State/Prov.: Ohio | Trial Reliability: Reliable
Postal Code: 44691 | Initiation Date: 06/09/06
Country: USA | Planned Completion Date: 11/30/06

Objective: To evaluate PRE and POST rates of Dual Magnum and Command alone and in combination for weed control in peppers.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	AGRASS	annual grasses (various)	*Setaria spp.and Digitaria spp.*
2	AMAXX	pigweed spp.	*Amaranthus spp.*
3	CHEAL	common lambsquarter	*Chenopodium album L.*
4	POROL	common purslane	*Portulaca oleracea L.*
5	SOLPT	Eastern black nightshade	*Solanum ptycanthum Dun.*

Crop 1: CPSAN BANANA PEPPER Variety: ETHEN
Planting Date: 06/09/06 | Planting Method: MACHINE PLANTED
Rate: 12 IN | Depth: 2 IN
Row Spacing: 4 FT | Seed Bed: CONVENTIONAL

SITE AND DESIGN

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

SOIL DESCRIPTION

% Sand: 67.1 | % OM: 2.9 | Texture: FINE SANDY LOAM
% Silt: 20 | pH: 5.9 | Soil Name: COLWOOD
% Clay: 10 | CEC: 11.3 | Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A	B
Application Date:	6/8/2006	6/26/2006
Time of Day:	9-11 AM	12-1 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	25.6 C	75 F
% Relative Humidity:	54	80
Wind Velocity, Unit:	2.7 MPH	2 MPH
% Cloud Cover:	0	30

CROP STAGE AT EACH APPLICATION

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

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PEPPERS - TOLERANCE OF BANANA PEPPER TO DUAL MAGNUM AND COMMAND

Trial ID: PEPBAJACHFRE 2006 Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio Investigator: Doug Doohan

WEED STAGE AT EACH APPLICATION

	A		B	
Weed 1 Code, Stage:	AGRAS	PRE	AGRASS	POST
Stage Scale:	.		4-8 IN	
Density, Unit:	. .		HIGH	PLOT
Weed 2 Code, Stage:	AMAXX	PRE	AMAXX	POST
Stage Scale:	.		4-8 IN	
Density, Unit:	. .		LOW	PLOT
Weed 3 Code, Stage:	CHEAL	PRE	CHEAL	POST
Stage Scale:	.		4-8 IN	
Density, Unit:	. .		LOW	PLOT
Weed 4 Code, Stage:	POROL	PRE	POROL	POST
Stage Scale:	.		6 IN DIAM	
Density, Unit:	. .		HIGH	PLOT
Weed 5 Code, Stage:	SOLPT	PRE	SOLPT	POST
Stage Scale:	.		4-8 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:	18 IN	18 IN
Nozzles/Row:	4	4
Band Width, Unit:	72 IN	72 IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	2.5 MPH	2.5 MPH
Spray Volume, Unit:	25 GPA	25 GPA

Trial Comments:

In the Trt-Eval Interval, " WAT" refers to weeks after treatmant.

The Ohio State University

PEPPERS - TOLERANCE OF BANANA PEPPER TO DUAL MAGNUM AND COMMAND

Trial ID: PEPBAJACHFRE 2006
Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio
Investigator: Doug Doohan

Weed Code								AGRASS	SOLPT
Crop Code								CUMSA	CUMSA
Part Rated				PLANT	PLANT	PLANT	PLANT	WEED	WEED
Rating Data Type				BURN	STUNT	LEAF CURL	CHLOROSIS	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/26/2006	6/26/2006	6/26/2006	6/26/2006	6/26/2006	6/26/2006
Trt-Eval Interval				2 WAT	2 WAT	2 WAT	2 WAT	2 WAT	2 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
WEEDY CONTROL				0	0	0	0	0	0
WEED FREE CONTROL				0	0	0	0	99	99
DUAL MAGNUM	0.5	PT/A	PRE	0	0	0	1	87	99
DUAL MAGNUM	1	PT/A	PRE	0	10	0	5	79	99
DUAL MAGNUM	0.5	PT/A	POST						
DUAL MAGNUM	1	PT/A	POST						
COMMAND	1.34	PT/A	PRE	0	0	0	3	99	99
COMMAND	2.68	PT/A	PRE	3	0	0	6	99	99
DUAL MAGNUM+	0.5	PT/A	PRE	0	1	0	4	98	99
COMMAND	1.34	PT/A	PRE						
DUAL MAGNUM+	1	PT/A	PRE	0	0	0	6	92	99
COMMAND	1.34	PT/A	PRE						
DUAL MAGNUM+	0.5	PT/A	PRE	0	0	0	5	99	99
COMMAND	2.68	PT/A	PRE						
DUAL MAGNUM+	1	PT/A	PRE	0	5	0	4	99	99
COMMAND	2.68	PT/A	PRE						
LSD (P=.05)				2	7	0	9	12	0
Standard Deviation				1.6	4.8	0	6.3	8.5	0
CV				632.46	295.34	0	187.12	9.94	0

The Ohio State University

PEPPERS - TOLERANCE OF BANANA PEPPER TO DUAL MAGNUM AND COMMAND

Trial ID: PEPBAJACHFRE 2006
Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio
Investigator: Doug Doohan

Weed Code				CHEAL	AMAXX	POROL			
Crop Code				CUMSA	CUMSA	CUMSA			
Part Rated				WEED	WEED	WEED	PLANT	PLANT	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	BURN	STUNT	CHLOROSIS
Rating Unit				%	%	%	%	%	%
Rating Date				6/26/2006	6/26/2006	6/26/2006	7/3/2006	7/3/2006	7/3/2006
Trt-Eval Interval				2 WAT	2 WAT	2 WAT	4 WAT	4 WAT	4 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
WEEDY CONTROL				0	0	0	0	0	0
WEED FREE CONTROL				99	99	99	0	0	0
DUAL MAGNUM	0.5	PT/A	PRE	99	99	67	0	0	0
DUAL MAGNUM	1	PT/A	PRE	96	99	61	0	0	0
DUAL MAGNUM	0.5	PT/A	POST						
DUAL MAGNUM	1	PT/A	POST						
COMMAND	1.34	PT/A	PRE	99	99	96	0	0	0
COMMAND	2.68	PT/A	PRE	99	99	99	0	0	0
DUAL MAGNUM+	0.5	PT/A	PRE	99	98	98	0	0	0
COMMAND	1.34	PT/A	PRE						
DUAL MAGNUM+	1	PT/A	PRE	99	99	79	0	0	0
COMMAND	1.34	PT/A	PRE						
DUAL MAGNUM+	0.5	PT/A	PRE	99	99	99	0	0	0
COMMAND	2.68	PT/A	PRE						
DUAL MAGNUM+	1	PT/A	PRE	99	99	99	0	0	0
COMMAND	2.68	PT/A	PRE						
LSD (P=.05)				3	1	34	0	0	0
Standard Deviation				2.2	0.6	23.1	0	0	0
CV				2.49	0.71	28.98	0	0	0

The Ohio State University

PEPPERS - TOLERANCE OF BANANA PEPPER TO DUAL MAGNUM AND COMMAND

Trial ID: PEPBAJACHFRE 2006
Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio
Investigator: Doug Doohan

Weed Code				AGRASS	SOLPT	CHEAL	AMAXX	POROL	
Crop Code				CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated				WEED	WEED	WEED	WEED	WEED	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	BURN
Rating Unit				%	%	%	%	%	%
Rating Date				7/3/2006	7/3/2006	7/3/2006	7/3/2006	7/3/2006	7/3/2006
Trt-Eval Interval				4 WAT	4 WAT	4 WAT	4 WAT	4 WAT	1 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17	18
WEEDY CONTROL				0	0	0	0	0	0
WEED FREE CONTROL				99	99	99	99	99	0
DUAL MAGNUM	0.5	PT/A	PRE	24	0	85	99	0	
DUAL MAGNUM	1	PT/A	PRE	55	0	90	50	25	
DUAL MAGNUM	0.5	PT/A	POST						0
DUAL MAGNUM	1	PT/A	POST						0
COMMAND	1.34	PT/A	PRE	96	99	94	94	98	
COMMAND	2.68	PT/A	PRE	95	95	95	99	99	
DUAL MAGNUM+	0.5	PT/A	PRE	91	95	99	98	99	
COMMAND	1.34	PT/A	PRE						
DUAL MAGNUM+	1	PT/A	PRE	95	95	97	99	99	
COMMAND	1.34	PT/A	PRE						
DUAL MAGNUM+	0.5	PT/A	PRE	96	96	99	99	99	
COMMAND	2.68	PT/A	PRE						
DUAL MAGNUM+	1	PT/A	PRE	97	99	99	99	99	
COMMAND	2.68	PT/A	PRE						
LSD (P=.05)				23	1	3	26	23	0
Standard Deviation				15.5	0.6	2.1	18.1	15.6	0
CV				20.74	0.93	2.46	21.65	21.82	0

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PEPPERS - TOLERANCE OF BANANA PEPPER TO DUAL MAGNUM AND COMMAND

Trial ID: PEPBAJACHFRE 2006
Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio
Investigator: Doug Doohan

Weed Code						AGRASS	SOLPT	CHEAL
Crop Code				CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated				PLANT	PLANT	WEED	WEED	WEED
Rating Data Type				STUNT	CHLOROSIS	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/3/2006	7/3/2006	7/3/2006	7/3/2006	7/3/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	1 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19	20	21	22	23
WEEDY CONTROL				0	0	0	0	0
WEED FREE CONTROL				0	0	99	99	99
DUAL MAGNUM	0.5	PT/A	PRE					
DUAL MAGNUM	1	PT/A	PRE					
DUAL MAGNUM	0.5	PT/A	POST	0	0	0	0	0
DUAL MAGNUM	1	PT/A	POST	0	0	0	0	50
COMMAND	1.34	PT/A	PRE					
COMMAND	2.68	PT/A	PRE					
DUAL MAGNUM+	0.5	PT/A	PRE					
COMMAND	1.34	PT/A	PRE					
DUAL MAGNUM+	1	PT/A	PRE					
COMMAND	1.34	PT/A	PRE					
DUAL MAGNUM+	0.5	PT/A	PRE					
COMMAND	2.68	PT/A	PRE					
DUAL MAGNUM+	1	PT/A	PRE					
COMMAND	2.68	PT/A	PRE					
LSD (P=.05)				0	0	0	0	46
Standard Deviation				0	0	0	0	28.6
CV				0	0	0	0	76.98

The Ohio State University

PEPPERS - TOLERANCE OF BANANA PEPPER TO DUAL MAGNUM AND COMMAND

Trial ID: PEPBAJACHFRE 2006
Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio
Investigator: Doug Doohan

Weed Code				AMAXX	POROL			
Crop Code				CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated				WEED	WEED	PLANT	PLANT	PLANT
Rating Data Type				CONTROL	CONTROL	BURN	STUNT	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				7/3/2006	7/3/2006	7/17/2006	7/17/2006	7/17/2006
Trt-Eval Interval				1 WAT	1 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	24	25	26	27	28
WEEDY CONTROL				0	0	0	0	0
WEED FREE CONTROL				99	99	0	0	0
DUAL MAGNUM	0.5	PT/A	PRE					
DUAL MAGNUM	1	PT/A	PRE					
DUAL MAGNUM	0.5	PT/A	POST	99	0	0	4	0
DUAL MAGNUM	1	PT/A	POST	99	0	0	4	0
COMMAND	1.34	PT/A	PRE					
COMMAND	2.68	PT/A	PRE					
DUAL MAGNUM+	0.5	PT/A	PRE					
COMMAND	1.34	PT/A	PRE					
DUAL MAGNUM+	1	PT/A	PRE					
COMMAND	1.34	PT/A	PRE					
DUAL MAGNUM+	0.5	PT/A	PRE					
COMMAND	2.68	PT/A	PRE					
DUAL MAGNUM+	1	PT/A	PRE					
COMMAND	2.68	PT/A	PRE					
LSD (P=.05)				0	0	0	4	0
Standard Deviation				0	0	0	2.8	0
CV				0	0	0	147.41	0

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PEPPERS - TOLERANCE OF BANANA PEPPER TO DUAL MAGNUM AND COMMAND

Trial ID: PEPBAJACHFRE 2006
Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio
Investigator: Doug Doohan

Weed Code				AGRASS	SOLPT	CHEAL	AMAXX	POROL
Crop Code				CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/17/2006	7/17/2006	7/17/2006	7/17/2006	7/17/2006
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	29	30	31	32	33
WEEDY CONTROL				0	0	0	0	0
WEED FREE CONTROL				99	99	99	99	99
DUAL MAGNUM	0.5	PT/A	PRE					
DUAL MAGNUM	1	PT/A	PRE					
DUAL MAGNUM	0.5	PT/A	POST	93	99	99	99	91
DUAL MAGNUM	1	PT/A	POST	92	99	99	99	88
COMMAND	1.34	PT/A	PRE					
COMMAND	2.68	PT/A	PRE					
DUAL MAGNUM+	0.5	PT/A	PRE					
COMMAND	1.34	PT/A	PRE					
DUAL MAGNUM+	1	PT/A	PRE					
COMMAND	1.34	PT/A	PRE					
DUAL MAGNUM+	0.5	PT/A	PRE					
COMMAND	2.68	PT/A	PRE					
DUAL MAGNUM+	1	PT/A	PRE					
COMMAND	2.68	PT/A	PRE					
LSD (P=.05)				5	0	0	0	12
Standard Deviation				3.4	0	0	0	7.3
CV				4.77	0	0	0	10.57

The Ohio State University

PEPPERS - TOLERANCE OF BANANA PEPPER TO DUAL MAGNUM AND COMMAND

Trial ID: PEPBAJACHFRE 2006
Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				MKTB #	MKTB WT	MKTB WT	IMMAT WT	TTL MKTB WT
Rating Unit				PER PLOT	LB/PLOT	LB/PLOT	LB/PLOT	LB/PLOT
Rating Date				8/15/2006	8/15/2006	9/14/2006	9/14/2006	9/14/2006
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	TTL YLD
Spray Timing								
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	34	35	38	39	41
WEEDY CONTROL				11	1	1.1	0.2	2.17
WEED FREE CONTROL				42	4.8	7.9	0.6	12.73
DUAL MAGNUM	0.5	PT/A	PRE	48	5.6	5.9	0.5	11.48
DUAL MAGNUM	1	PT/A	PRE	41	5.2	5.7	0.5	10.85
DUAL MAGNUM	0.5	PT/A	POST	58	7.1	7.3	0.8	14.4
DUAL MAGNUM	1	PT/A	POST	52	6.3	5.8	0.3	12
COMMAND	1.34	PT/A	PRE	52	6.1	6.8	0.5	12.9
COMMAND	2.68	PT/A	PRE	55	6.7	8.3	0.6	15.07
DUAL MAGNUM+	0.5	PT/A	PRE	49	5.9	7.7	0.6	13.6
COMMAND	1.34	PT/A	PRE					
DUAL MAGNUM+	1	PT/A	PRE	49	6.3	7.4	0.9	13.75
COMMAND	1.34	PT/A	PRE					
DUAL MAGNUM+	0.5	PT/A	PRE	51	6.6	8	0.7	14.63
COMMAND	2.68	PT/A	PRE					
DUAL MAGNUM+	1	PT/A	PRE	48	5.8	6.3	0.7	12.03
COMMAND	2.68	PT/A	PRE					
LSD (P=.05)				17	2	3	0.5	4
Standard Deviation				12	1.44	1.87	0.33	2.537
CV				25.86	25.58	28.66	58.16	20.91

The Ohio State University

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

Trial ID: PEPPERGILLM 2006 | Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio | Investigator: Doug Doohan

TRIAL LOCATION

City: Fremont | Trial Status: Final
State/Prov.: Ohio | Trial Reliability: Reliable
Postal Code: 44691 | Initiation Date: 06/08/06
Country: USA | Planned Completion Date: 10/30/06

Objective: To evaluate weed control and crop injury on bell peppers using PRE and POST applications of Spartan, Goaltender and Valor.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	SOLPT	Eastern black nightshade	*Solanum ptycanthum*
2	AMAXX	pigweed species	*Amaranth spp.*

Crop 1: CPSAN BELL PEPPER Variety: RED KNIGHT
Planting Date: 06/10/06 | Planting Method: MACHINE PLANTED
Rate: 1 PLANT PER FT | Depth: 2 IN
Row Spacing: 30 IN | Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 10 FT | Plot Length, Unit: 20 FT
Site Type: LEVEL FIELD | Reps: 4
Tillage Type: CONVENTIONAL | Study Design: RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments: A blanket application of Devrinol (Napropamide) + Command 3ME was applied over the entire study area before pepper transplanting. On June 7, 2006 we applied all pre-emergence treatments. Pepper transplanting was done on June 11, 2006.

SOIL DESCRIPTION

% Sand: 67.1	% OM: 2.9	Texture: FINE SANDY LOAM
% Silt: 20	pH: 5.9	Soil Name: COLWOOD
% Clay: 10	CEC: 11.3	Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A	B
Application Date:	6/7/2006	7/18/2006
Time of Day:	9-11 AM	1-3 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	BROADCAST	DIRECTED
Air Temp., Unit:	78 F	74 F
% Relative Humidity:	54	79
Wind Velocity, Unit:	2.7 MPH	2 MPH
Soil Moisture:	DRY	DRY
% Cloud Cover:	0	50

The Ohio State University

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

Trial ID: PEPPERGILLM 2006 Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

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

WEED STAGE AT EACH APPLICATION

	A		B	
Weed 1 Code, Stage:	SOLPT	PRE	SOLPT	POST
Stage Scale:	.		1-5 IN	
Density, Unit:	. .		LOW	PLOT
Weed 2 Code, Stage:	AMAXX	PRE	AMAXX	POST
Stage Scale:	.		1-12 IN	
Density, Unit:	. .		LOW	PLOT

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	40	35
Nozzle Type:	FLAT FAN	DROP
Nozzle Size:	8002VS	1102VS
Nozzle Spacing, Unit:	18 IN	18 IN
Nozzles/Row:	4	2
Band Width, Unit:	72 IN	36 IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	2.5 MPH	2.7 MPH
Spray Volume, Unit:	25 GPA	25 GPA

Trial Comments:

In the Trt-Eval Interval, " WAT" refers to weeks after treatmant.

The Ohio State University

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

Trial ID: PEPPERGILLM 2006
Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	BURN	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/26/2006	6/26/2006	6/26/2006	7/6/2006	7/6/2006
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	4 WAT	4 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
Untreated Control				0	0	0	0	0
Spartan	2.4	OZ/A	PRE	0	0	0	0	0
Spartan	4.8	OZ/A	PRE	0	0	0	0	16
Goaltender	0.5	PT/A	PRE	0	0	0	0	0
Goaltender	1	PT/A	PRE	0	24	0	0	8
Valor	1.98	OZ/A	PRE	0	0	0	0	26
Valor	3.96	OZ/A	PRE	0	30	0	0	46
Spartan	2.4	OZ/A	POST					
Spartan	4.8	OZ/A	POST					
Goaltender	0.5	PT/A	POST					
Goaltender	1	PT/A	POST					
Valor	1.98	OZ/A	POST					
Valor	3.96	OZ/A	POST					
Handweeded control				0	0	0	0	0
LSD (P=.05)				0	3	0	0	11
Standard Deviation				0	1.7	0	0	7.5
CV				0	25.19	0	0	62.14

The Ohio State University

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

Trial ID: PEPPERGILLM 2006
Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio
Investigator: Doug Doohan

Weed Code					SOLPT	AMAXX		
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				PLANT	WEED	WEED	PLANT	PLANT
Rating Data Type				BURN	CONTROL	CONTROL	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%
Rating Date				7/6/2006	7/6/2006	7/6/2006	7/20/2006	7/20/2006
Trt-Eval Interval				4 WAT	4 WAT	4 WAT	6 WAT	6 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
Untreated Control				0	0	0	0	0
Spartan	2.4	OZ/A	PRE	0	23	50	0	8
Spartan	4.8	OZ/A	PRE	1	99	68	0	10
Goaltender	0.5	PT/A	PRE	9	94	98	0	0
Goaltender	1	PT/A	PRE	16	100	99	0	10
Valor	1.98	OZ/A	PRE	6	100	100	0	16
Valor	3.96	OZ/A	PRE	3	100	100	0	43
Spartan	2.4	OZ/A	POST					
Spartan	4.8	OZ/A	POST				0	
Goaltender	0.5	PT/A	POST					
Goaltender	1	PT/A	POST					
Valor	1.98	OZ/A	POST					
Valor	3.96	OZ/A	POST					
Handweeded control				0	99	99	0	0
LSD (P=.05)				13	24	37	0	13
Standard Deviation				8.6	16.2	25.3	0	9
CV				199.26	21.18	33.17	0	83.55

The Ohio State University

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

Trial ID: PEPPERGILLM 2006
Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio
Investigator: Doug Doohan

Weed Code					SOLPT	AMAXX		
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				PLANT	WEED	WEED	PLANT	PLANT
Rating Data Type				BURN	CONTROL	CONTROL	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%
Rating Date				7/20/2006	7/20/2006	7/20/2006	7/25/2006	7/25/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	1 WAT	1 WAT
Spray Timing				PRE	PRE	PRE	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
Untreated Control				0	0	0	0	0
Spartan	2.4	OZ/A	PRE	0	24	24		
Spartan	4.8	OZ/A	PRE	0	66	99		
Goaltender	0.5	PT/A	PRE	0	21	25		
Goaltender	1	PT/A	PRE	0	95	86		
Valor	1.98	OZ/A	PRE	0	99	99		
Valor	3.96	OZ/A	PRE	0	99	99		
Spartan	2.4	OZ/A	POST	0			0	8
Spartan	4.8	OZ/A	POST				0	0
Goaltender	0.5	PT/A	POST				0	3
Goaltender	1	PT/A	POST				0	1
Valor	1.98	OZ/A	POST				0	0
Valor	3.96	OZ/A	POST				0	0
Handweeded control				0	99	99	0	0
LSD (P=.05)				0	37	38	0	8
Standard Deviation				0	25	25.7	0	5.6
CV				0	39.73	38.81	0	400.59

The Ohio State University

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

Trial ID: PEPPERGILLM 2006
Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio
Investigator: Doug Doohan

Weed Code					SOLPT	AMA XX		
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				PLANT	WEED	WEED	FRUIT	FRUIT
Rating Data Type				BURN	CONTROL	CONTROL	MKTB WT	IMMAT WT
Rating Unit				%	%	%	LB/PLOT	LB/PLOT
Rating Date				7/25/2006	7/25/2006	7/25/2006	8/28/2006	8/28/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	HARVEST	HARVEST
Spray Timing				POST	POST	POST		
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	16	17	18	19	20
Untreated Control				0	0	0	2.13	0.38
Spartan	2.4	OZ/A	PRE				2	0.55
Spartan	4.8	OZ/A	PRE				3.54	1.25
Goaltender	0.5	PT/A	PRE				2.9	0.03
Goaltender	1	PT/A	PRE				2.58	0.38
Valor	1.98	OZ/A	PRE				2.95	0.45
Valor	3.96	OZ/A	PRE				4	0.8
Spartan	2.4	OZ/A	POST	0	39	40	3.35	0.93
Spartan	4.8	OZ/A	POST	0	68	90	2.88	0.5
Goaltender	0.5	PT/A	POST	3	78	61	2.72	0.7
Goaltender	1	PT/A	POST	4	95	73	4.65	0.1
Valor	1.98	OZ/A	POST	5	84	60	4.08	0.1
Valor	3.96	OZ/A	POST	3	94	86	3.65	0.5
Handweeded control				0	99	99	2.88	0.32
LSD (P=.05)				7	21	41	2	0.6
Standard Deviation				4.5	14.6	28.1	1.337	0.401
CV				262.94	21.01	44.24	42.23	80.2

The Ohio State University

PEPPERS - WEED CONTROL AND CROP TOLERANCE WITH POST- DIRECTED HERBICIDES

Trial ID: PEPPOSDIRECT 2006 | Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio | Investigator: Doug Doohan

TRIAL LOCATION

City: Wooster | Trial Status: Final
State/Prov.: Ohio | Trial Reliability: Reliable
Postal Code: 44691 | Initiation Date: 08/01/06
Country: USA | Planned Completion Date: 12/30/06

Objective: To evaluate POST-DIRECTED herbicides for crop tolerance and weed control in peppers.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	AMAXX	pigweed species	*Amaranth spp.*
2	CAPBP	shepherd's purse	*Capsella bursa-pastoris (L.) Medicus*
3	POROL	common purslane	*Portulaca oleracea L.*

Crop 1: CPSAN PEPPER: (BANANA, BELL, JALAPENO) Variety: ARISTOTLE, ETHEN, IXTAPA
Planting Date: 06/09/06 | Planting Method: MACHINE PLANTED
Rate: 1 PLANT EVERY 12 IN | Depth: 2 IN
Row Spacing: 4 FT | Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 10 FT | Plot Length, Unit: 20 FT
Site Type: LEVEL FIELD | Reps: 4
Tillage Type: CONVENTIONAL | Study Design: SPLIT-PLOT

SOIL DESCRIPTION

% Sand: 15 | % OM: 3.0 | Texture: SILT LOAM
% Silt: 67 | pH: 6.3 | Soil Name: WOOSTER SILT LOAM
% Clay: 15 | CEC: 8.5 | Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A
Application Date:	8/1/2006
Time of Day:	10-11AM
Application Method:	SPRAY
Application Timing:	POST
Applic. Placement:	DIRECTED
Air Temp., Unit:	87 F
% Relative Humidity:	70
Wind Velocity, Unit:	5 MPH
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CPSAN POST
Stage Scale:	POST BLOOM
Height, Unit:	12 IN

The Ohio State University

PEPPERS - WEED CONTROL AND CROP TOLERANCE WITH POST- DIRECTED HERBICIDES

Trial ID: PEPPOSDIRECT 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	AMAXX POST
Stage Scale:	3-5 IN
Density, Unit:	MEDIUM PLOT
Weed 2 Code, Stage:	CAPBP POST
Stage Scale:	6-8 LF
Density, Unit:	HIGH PLOT
Weed 3 Code, Stage:	POROL POST
Stage Scale:	6 IN DIAM
Density, Unit:	HIGH PLOT

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	35
Nozzle Type:	DROP
Nozzle Size:	1102VS
Nozzle Spacing, Unit:	18 IN
Nozzles/Row:	2
Band Width, Unit:	36 IN
Boom Height, Unit:	18 IN
Ground Speed, Unit:	2.7 MPH
Spray Volume, Unit:	25 GPA

Trial Comments:

In the Trt-Eval Interval, " WAT" refers to weeks after treatmant.

The Ohio State University

PEPPERS - WEED CONTROL AND CROP TOLERANCE WITH POST- DIRECTED HERBICIDES

Trial ID: PEPPOSDIRECT 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code							AMAXX	POROL	CAPBP
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				LEAF	FRUIT	PLANT	WEED	WEED	WEED
Rating Data Type				BURN	INJURY	STUNT	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				8/8/2006	8/8/2006	8/8/2006	8/8/2006	8/8/2006	8/8/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	1 WAT	1 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
BANANA				0	0	0	3	4	3
DUAL MAGNUM	1	PT/A	POST						
BANANA				10	0	0	96	98	81
GOALTENDER	0.5	PT/A	POST						
BANANA				6	0	0	99	97	82
SPARTAN	4.76	OZ/A	POST						
BANANA				15	15	0	99	97	87
VALOR	1.98	OZ/A	POST						
BELL				0	0	0	1	1	1
DUAL MAGNUM	1	PT/A	POST						
BELL				0	0	0	72	95	65
GOALTENDER	0.5	PT/A	POST						
BELL				4	0	0	99	71	40
SPARTAN	4.76	OZ/A	POST						
BELL				14	6	0	99	99	99
VALOR	1.98	OZ/A	POST						
JALAPENO				0	0	0	1	1	1
DUAL MAGNUM	1	PT/A	POST						
JALAPENO				3	0	0	87	95	82
GOALTENDER	0.5	PT/A	POST						
JALAPENO				5	0	0	99	63	62
SPARTAN	4.76	OZ/A	POST						
JALAPENO				14	8	0	99	99	99
VALOR	1.98	OZ/A	POST						
LSD (P=.05)				6	5	0	13	13	24
Standard Deviation				3.9	3.4	0	9	9.2	16.3
CV				67.28	143.89	0	12.68	13.43	27.8

The Ohio State University

PEPPERS - WEED CONTROL AND CROP TOLERANCE WITH POST- DIRECTED HERBICIDES

Trial ID: PEPPOSDIRECT 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code							AMAXX	POROL
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				PLANT	PLANT	PLANT	WEED	WEED
Rating Data Type				BURN	STUNT	CHLOROSIS	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/22/2006	8/22/2006	8/22/2006	8/22/2006	8/22/2006
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11
BANANA DUAL MAGNUM	1	PT/A	POST	1	3	0	73	13
BANANA GOALTENDER	0.5	PT/A	POST	2	0	0	71	95
BANANA SPARTAN	4.76	OZ/A	POST	2	3	0	99	69
BANANA VALOR	1.98	OZ/A	POST	4	0	0	74	88
BELL DUAL MAGNUM	1	PT/A	POST	0	0	0	25	28
BELL GOALTENDER	0.5	PT/A	POST	0	1	0	46	66
BELL SPARTAN	4.76	OZ/A	POST	3	0	0	99	23
BELL VALOR	1.98	OZ/A	POST	6	0	0	96	89
JALAPENO DUAL MAGNUM	1	PT/A	POST	0	0	0	74	13
JALAPENO GOALTENDER	0.5	PT/A	POST	1	0	0	50	81
JALAPENO SPARTAN	4.76	OZ/A	POST	6	0	0	98	33
JALAPENO VALOR	1.98	OZ/A	POST	3	3	0	99	93
LSD (P=.05)				5	4	0	52	35
Standard Deviation				3.1	2.7	0	36.3	23.9
CV				136.11	365.08	0	48.19	41.79

The Ohio State University

PEPPERS - WEED CONTROL AND CROP TOLERANCE WITH POST- DIRECTED HERBICIDES

Trial ID: PEPPOSDIRECT 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				CAPBP			AMAXX	POROL	CAPBP
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				WEED	PLANT	PLANT	WEED	WEED	WEED
Rating Data Type				CONTROL	BURN	STUNT	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				8/22/2006	9/12/2006	9/12/2006	9/12/2006	9/12/2006	9/12/2006
Trt-Eval Interval				3 WAT	6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	12	13	14	15	16	17
BANANA DUAL MAGNUM	1	PT/A	POST	0	0	0	50	34	21
BANANA GOALTENDER	0.5	PT/A	POST	72	0	0	78	96	71
BANANA SPARTAN	4.76	OZ/A	POST	13	0	0	99	66	59
BANANA VALOR	1.98	OZ/A	POST	96	0	0	99	81	69
BELL DUAL MAGNUM	1	PT/A	POST	0	0	0	25	29	0
BELL GOALTENDER	0.5	PT/A	POST	70	0	0	25	65	64
BELL SPARTAN	4.76	OZ/A	POST	21	0	0	87	38	30
BELL VALOR	1.98	OZ/A	POST	71	0	0	87	84	83
JALAPENO DUAL MAGNUM	1	PT/A	POST	0	0	0	50	35	47
JALAPENO GOALTENDER	0.5	PT/A	POST	82	0	0	50	84	65
JALAPENO SPARTAN	4.76	OZ/A	POST	21	0	0	99	56	16
JALAPENO VALOR	1.98	OZ/A	POST	96	0	8	99	89	92
LSD (P=.05)				45	0	2	50	24	56
Standard Deviation				31	0	1.4	34.4	16.9	38.4
CV				68.79	0	230.94	48.87	26.82	74.91

The Ohio State University

PEPPERS - WEED CONTROL AND CROP TOLERANCE WITH POST- DIRECTED HERBICIDES

Trial ID: PEPPOSDIRECT 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				MKTB #	MKTB WT	IMMAT #	IMMAT WT	TOTAL WT
Rating Unit				LB/PLOT	LB/PLOT	PER PLOT	LB/PLOT	PER PLOT
Rating Date				9/19/2006	9/19/2006	9/19/2006	9/19/2006	9/19/2006
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	18	19	22	23	24
BANANA DUAL MAGNUM	1	PT/A	POST	83	15.1	36	3.6	19.6
BANANA GOALTENDER	0.5	PT/A	POST	88	15.5	45	4	20
BANANA SPARTAN	4.76	OZ/A	POST	86	14.5	45	4.1	19.4
BANANA VALOR	1.98	OZ/A	POST	58	9.7	55	5.4	17
BELL DUAL MAGNUM	1	PT/A	POST	32	20.2			20.2
BELL GOALTENDER	0.5	PT/A	POST	28	17.3			17.3
BELL SPARTAN	4.76	OZ/A	POST	32	15.1			15.1
BELL VALOR	1.98	OZ/A	POST	29	11.4			11.4
JALAPENO DUAL MAGNUM	1	PT/A	POST		18			18
JALAPENO GOALTENDER	0.5	PT/A	POST		19			19
JALAPENO SPARTAN	4.76	OZ/A	POST		19.7			19.8
JALAPENO VALOR	1.98	OZ/A	POST		17.7			18.1
LSD (P=.05)				14	5	16	2	5
Standard Deviation				9.5	3.42	10.1	1.34	3.46
CV				17.4	21.24	22.55	31.35	19.33

The Ohio State University

PEPPERS - WEED CONTROL AND CROP TOLERANCE WITH PRE-TRANSPLANT HERBICIDES

Trial ID: PEPPRETRANS 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

TRIAL LOCATION

City: Wooster Trial Status: Final
State/Prov.: Ohio Trial Reliability: Reliable
Postal Code: 44691 Initiation Date: 06/09/06
Country: USA Planned Completion Date: 12/15/06

Objective: To evaluate pre-transplant herbicides for crop tolerance and weed control in peppers.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	AGRASS	foxtail, crabgrass spp.	*Setaria, Digitaria spp.*
2	AMAXX	pigweed species	*Amaranth spp.*
3	CAPBP	shepherd's purse	*Capsella bursa-pastoris (L.) Medicus*
4	POLAV	prostrate knotweed	*Polygonum aviculare L.*
5	POLPY	Pennsylvania smartweed	*Polygonum pensylvanicum L.*
6	POROL	common purslane	*Portulaca oleracea L.*
7	SOLPT	eastern black nightshade	*Solanum ptycanthum Dun.*

Crop 1: CPSAN PEPPER (BANANA, BELL, JALAPENO) Variety: ARISTOTLE, ETHEN, IXTAPA
Planting Date: 06/09/06 Planting Method: MACHINE PLANTED
Rate: 12 IN Depth: 2 IN
Row Spacing: 4 FT Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 10 FT Plot Length, Unit: 10 FT
Site Type: LEVEL FIELD Reps: 4
Tillage Type: CONVENTIONAL Study Design: SPLIT-PLOT

SOIL DESCRIPTION

% Sand: 15 % OM: 3.0 Texture: SILT LOAM
% Silt: 67 pH: 6.3 Soil Name: WOOSTER SILT LOAM
% Clay: 15 CEC: 8.5 Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A
Application Date:	6/7/2006
Time of Day:	9-10 AM
Application Method:	SPRAY
Application Timing:	PRETP
Applic. Placement:	BROADCAST
Air Temp., Unit:	24.4 C
% Relative Humidity:	55
Wind Velocity, Unit:	1.2 MPH
% Cloud Cover:	30

CROP STAGE AT EACH APPLICATION

	A	
Crop 1 Code, Stage:	CPSAN	PRETP
Stage Scale:	SEEDLING	
Height, Unit:	6 IN	

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PEPPERS - WEED CONTROL AND CROP TOLERANCE WITH PRE-TRANSPLANT HERBICIDES

Trial ID: PEPPRETRANS 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

WEED STAGE AT EACH APPLICATION

	A	
Weed 1 Code, Stage:	AGRASS	PRETP
Stage Scale:	.	
Density, Unit:	. .	
Weed 2 Code, Stage:	AMAXX	PRETP
Stage Scale:	.	
Density, Unit:	. .	
Weed 3 Code, Stage:	CAPBP	PRETP
Stage Scale:	.	
Density, Unit:	. .	
Weed 4 Code, Stage:	POLAV	PRETP
Stage Scale:	.	
Density, Unit:	. .	
Weed 5 Code, Stage:	POLPY	PRETP
Stage Scale:	.	
Density, Unit:	. .	
Weed 6 Code, Stage:	POROL	PRETP
Stage Scale:	.	
Density, Unit:	. .	
Weed 7 Code, Stage:	SOLPT	PRETP
Stage Scale:	.	
Density, Unit:	. .	

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	40
Nozzle Type:	FLAT FAN
Nozzle Size:	8002VS
Nozzle Spacing, Unit:	18 IN
Nozzles/Row:	4
Band Width, Unit:	72 IN
Boom Height, Unit:	18 IN
Ground Speed, Unit:	2.5 MPH
Spray Volume, Unit:	25 GPA

Trial Comments

The pepper types, varieties, and approximate days to harvest used in the trial were:
1. banana (Ethen), 70 day
2. bell (Aristotle), 75 day
3. jalapeno (Ixtapa), 75 day
The plots were harvested twice, (8/22 and 8/28)
In the Trt-Eval Interval, " WAT" refers to weeks after treatmant.

The Ohio State University

PEPPERS - WEED CONTROL AND CROP TOLERANCE WITH PRE-TRANSPLANT HERBICIDES

Trial ID: PEPPRETRANS 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code							AGRASS	SOLPT	AMAXX
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				PLANT	PLANT	PLANT	WEED	WEED	WEED
Rating Data Type				BURN	STUNT	CHLOROSIS	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/16/2006	6/16/2006	6/16/2006	6/16/2006	6/16/2006	6/16/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	1 WAT	1 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
BANANA				3	0	0	99	99	99
DUAL MAGNUM	1	PT/A	PRETP						
BANANA				8	6	0	99	99	99
GOALTENDER	3.6	OZ/A	PRETP						
BANANA				1	0	0	99	99	99
SPARTAN	4.76	OZ/A	PRETP						
BANANA				0	4	0	99	99	99
VALOR	1.98	OZ/A	PRETP						
BELL				4	0	0	99	99	99
DUAL MAGNUM	1	PT/A	PRETP						
BELL				0	0	0	99	99	99
GOALTENDER	3.6	OZ/A	PRETP						
BELL				0	0	0	99	99	99
SPARTAN	4.76	OZ/A	PRETP						
BELL				0	0	0	99	99	99
VALOR	1.98	OZ/A	PRETP						
JALAPENO				4	0	0	99	99	99
DUAL MAGNUM	1	PT/A	PRETP						
JALAPENO				1	0	0	97	99	99
GOALTENDER	3.6	OZ/A	PRETP						
JALAPENO				3	0	0	99	99	99
SPARTAN	4.76	OZ/A	PRETP						
JALAPENO				3	0	0	99	99	99
VALOR	1.98	OZ/A	PRETP						
LSD (P=.05)				7	4	0	2	0	0
Standard Deviation				4.6	3	0	1.3	0	0
CV				222.38	361.81	0	1.31	0	0

The Ohio State University

PEPPERS - WEED CONTROL AND CROP TOLERANCE WITH PRE-TRANSPLANT HERBICIDES

Trial ID: PEPPRETRANS 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				POROL	CAPBP	POLPY			
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				WEED	WEED	WEED	PLANT	PLANT	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	BURN	STUNT	CHLOROSIS
Rating Unit				%	%	%	%	%	%
Rating Date				6/16/2006	6/16/2006	6/16/2006	6/30/2006	6/30/2006	6/30/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	3 WAT	3 WAT	3 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
BANANA DUAL MAGNUM	1	PT/A	PRETP	89	97	95	0	0	0
BANANA GOALTENDER	3.6	OZ/A	PRETP	99	99	99	3	13	6
BANANA SPARTAN	4.76	OZ/A	PRETP	99	99	99	4	10	8
BANANA VALOR	1.98	OZ/A	PRETP	99	99	99	1	15	6
BELL DUAL MAGNUM	1	PT/A	PRETP	99	87	74	0	0	0
BELL GOALTENDER	3.6	OZ/A	PRETP	99	95	99	0	0	0
BELL SPARTAN	4.76	OZ/A	PRETP	99	97	99	0	3	0
BELL VALOR	1.98	OZ/A	PRETP	99	99	99	0	14	1
JALAPENO DUAL MAGNUM	1	PT/A	PRETP	91	97	97	0	0	0
JALAPENO GOALTENDER	3.6	OZ/A	PRETP	99	99	99	0	5	1
JALAPENO SPARTAN	4.76	OZ/A	PRETP	99	99	99	0	0	0
JALAPENO VALOR	1.98	OZ/A	PRETP	99	99	99	0	13	0
LSD (P=.05)				5	7	21	3	10	6
Standard Deviation				3.5	5.1	14.6	1.8	7	3.9
CV				3.62	5.21	15.1	281.41	117.75	205.43

The Ohio State University

PEPPERS - WEED CONTROL AND CROP TOLERANCE WITH PRE-TRANSPLANT HERBICIDES

Trial ID: PEPPRETRANS 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				AGRASS	SOLPT	POLAV	AMAXX	POROL	CAPBP
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/30/2006	6/30/2006	6/30/2006	6/30/2006	6/30/2006	6/30/2006
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17	18
BANANA DUAL MAGNUM	1	PT/A	PRETP	98	99	74	96	76	83
BANANA GOALTENDER	3.6	OZ/A	PRETP	89	99	99	99	99	93
BANANA SPARTAN	4.76	OZ/A	PRETP	98	99	99	99	97	99
BANANA VALOR	1.98	OZ/A	PRETP	98	99	99	99	99	99
BELL DUAL MAGNUM	1	PT/A	PRETP	98	99	99	99	85	79
BELL GOALTENDER	3.6	OZ/A	PRETP	97	99	99	97	99	86
BELL SPARTAN	4.76	OZ/A	PRETP	99	99	99	99	98	96
BELL VALOR	1.98	OZ/A	PRETP	98	99	99	98	99	99
JALAPENO DUAL MAGNUM	1	PT/A	PRETP	74	99	74	99	79	84
JALAPENO GOALTENDER	3.6	OZ/A	PRETP	73	99	99	95	97	88
JALAPENO SPARTAN	4.76	OZ/A	PRETP	98	99	99	99	98	99
JALAPENO VALOR	1.98	OZ/A	PRETP	98	99	99	99	98	99
LSD (P=.05)				28	0	30	5	7	6
Standard Deviation				19.4	0	20.5	3.1	4.6	4.1
CV				20.84	0	21.62	3.15	4.86	4.41

The Ohio State University

PEPPERS - WEED CONTROL AND CROP TOLERANCE WITH PRE-TRANSPLANT HERBICIDES

Trial ID: PEPPRETRANS 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				POLPY				AGRASS
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				WEED	PLANT	PLANT	PLANT	WEED
Rating Data Type				CONTROL	BURN	STUNT	CHLOROSIS	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/30/2006	7/21/2006	7/21/2006	7/21/2006	7/21/2006
Trt-Eval Interval				3 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19	20	21	22	23
BANANA DUAL MAGNUM	1	PT/A	PRETP	85	0	0	0	99
BANANA GOALTENDER	3.6	OZ/A	PRETP	90	0	10	0	91
BANANA SPARTAN	4.76	OZ/A	PRETP	99	0	10	0	99
BANANA VALOR	1.98	OZ/A	PRETP	99	0	25	0	98
BELL DUAL MAGNUM	1	PT/A	PRETP	85	0	0	0	99
BELL GOALTENDER	3.6	OZ/A	PRETP	91	0	9	0	99
BELL SPARTAN	4.76	OZ/A	PRETP	98	0	4	0	99
BELL VALOR	1.98	OZ/A	PRETP	99	0	25	0	99
JALAPENO DUAL MAGNUM	1	PT/A	PRETP	86	0	0	0	99
JALAPENO GOALTENDER	3.6	OZ/A	PRETP	89	0	0	0	99
JALAPENO SPARTAN	4.76	OZ/A	PRETP	98	0	4	0	99
JALAPENO VALOR	1.98	OZ/A	PRETP	98	0	23	0	95
LSD (P=.05)				9	0	11	0	7
Standard Deviation				6	0	7.9	0	4.5
CV				6.44	0	87.25	0	4.64

The Ohio State University

PEPPERS - WEED CONTROL AND CROP TOLERANCE WITH PRE-TRANSPLANT HERBICIDES

Trial ID: PEPPRETRANS 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				SOLPT	AMAXX	POROL	CAPBP	POLPY
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				7/21/2006	7/21/2006	7/21/2006	7/21/2006	7/21/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	24	25	26	27	28
BANANA DUAL MAGNUM	1	PT/A	PRETP	99	96	0	25	25
BANANA GOALTENDER	3.6	OZ/A	PRETP	74	99	74	47	25
BANANA SPARTAN	4.76	OZ/A	PRETP	99	99	89	92	99
BANANA VALOR	1.98	OZ/A	PRETP	99	99	97	99	98
BELL DUAL MAGNUM	1	PT/A	PRETP	99	93	24	24	25
BELL GOALTENDER	3.6	OZ/A	PRETP	99	99	96	20	74
BELL SPARTAN	4.76	OZ/A	PRETP	99	99	72	71	50
BELL VALOR	1.98	OZ/A	PRETP	99	99	99	99	74
JALAPENO DUAL MAGNUM	1	PT/A	PRETP	99	99	0	50	25
JALAPENO GOALTENDER	3.6	OZ/A	PRETP	99	73	46	25	74
JALAPENO SPARTAN	4.76	OZ/A	PRETP	99	99	45	73	97
JALAPENO VALOR	1.98	OZ/A	PRETP	99	99	98	97	99
LSD (P=.05)				21	21	49	59	61
Standard Deviation				14.3	14.3	33.7	41	42.3
CV				14.74	14.87	54.64	68.3	66.37

The Ohio State University

PEPPERS - WEED CONTROL AND CROP TOLERANCE WITH PRE-TRANSPLANT HERBICIDES

Trial ID: PEPPRETRANS 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				MKTB #	MKTB WT	IMMAT #	IMMAT WT	TTL WT
Rating Unit				PER PLOT	LB/PLOT	PER PLOT	LBS/PLOT	LB/PLOT
Rating Date				8/28/2006	8/28/2006	8/28/2006	8/28/2006	8/28/2006
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	29	30	31	32	33
BANANA				56	8.9	41	3.9	13.1
DUAL MAGNUM	1	PT/A	PRETP					
BANANA				73	10.6	48	4.1	15.4
GOALTENDER	3.6	OZ/A	PRETP					
BANANA				84	15.8	49	4.7	20.5
SPARTAN	4.76	OZ/A	PRETP					
BANANA				77	15.2	46	4.1	19.8
VALOR	1.98	OZ/A	PRETP					
BELL				29	12.8	10	2.2	15.6
DUAL MAGNUM	1	PT/A	PRETP					
BELL				33	15.4	12	3.6	19.2
GOALTENDER	3.6	OZ/A	PRETP					
BELL				35	17.1	9	2.6	20.1
SPARTAN	4.76	OZ/A	PRETP					
BELL				34	17.8	10	3	21.1
VALOR	1.98	OZ/A	PRETP					
JALAPENO					15.4		0.8	16.7
DUAL MAGNUM	1	PT/A	PRETP					
JALAPENO					20.1		0.9	21
GOALTENDER	3.6	OZ/A	PRETP					
JALAPENO					19.5		1.1	20.4
SPARTAN	4.76	OZ/A	PRETP					
JALAPENO					21.5		0.8	21
VALOR	1.98	OZ/A	PRETP					
LSD (P=.05)				22	5	17	2	3
Standard Deviation				14.8	3.1	12.1	1.08	2.33
CV				28.2	19.58	42.96	40.74	12.49

The Ohio State University

RASPBERRIES, BLACK - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO

Trial ID: RASPBLMESOW 2006
Location: Wooster, Ohio

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

TRIAL LOCATION

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

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 03/22/06
Planned Completion Date: 10/30/06

Objective: To confirm and expand on the list of minor use crops for potential Mesotrione label expansion.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	CIRAR	Canada thistle	*Cirsium arvense (L) SCOP.*

Crop 1: RUBSG BLACK RASPBERRY
Variety: JEWEL
Planting Date: 05/15/02
Planting Method: CONVENTIONAL
Rate: 600 PLANTS/A
Perennial Age: 4 YEARS
Row Spacing: 10 FT
Seed Bed: CONVENTIONAL
Emergence Date: 04/06/06
Depth: 3 IN

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: 16	% OM: 2.0	Texture: SILT LOAM
% Silt: 70	pH: 6.0	Soil Name: WOOSTER SILT LOAM
% Clay: 12	CEC: 14	Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A	B
Application Date:	3/22/2006	5/13/2006
Time of Day:	1-2 PM	2-3 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	DIRECTED	DIRECTED
Air Temp., Unit:	31.2 F	58.9 F
% Relative Humidity:	72.8	68.1
Wind Velocity, Unit:	1.1 MPH	5 MPH
Dew Presence (Y/N):	N	N
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	100	75

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	RUBSG PRE	RUBSG POST
Stage Scale:	DORMANT	PRE-BLOOM
Height, Unit:	4 FT	4 FT

The Ohio State University

RASPBERRIES, BLACK - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO

Trial ID: RASPBLMESOW 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

WEED STAGE AT EACH APPLICATION

	A		B	
Weed 1 Code, Stage:	CIRAR	PRE	CIRAR	POST
Stage Scale:	.		6-10 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:	8003EVS	8003EVS
Nozzles/Row:	1	1
Band Width, Unit:	30 IN	30 IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	2.5 MPH	2.5 MPH
Spray Volume, Unit:	22 GPA	22 GPA
Propellant:	CO2	CO2

Trial Comments

The objective of this trial is crop tolerance to Callisto.
Weed control was very good overall; (Casoron was applied by grower @ 100# per treated acre late February), prior to our Callisto applications, so there really were no weeds to rate other than scattered perennial grasses and Canada thistle.
The raspberries were pruned late February, and started leafing out early April.
Treatment #6, Casoron 4G, was applied 5/13/06 .
In the Trt-Eval Interval column, the heading " WAEMER" refers to weeks after emergence in regards to the raspberry plants.
No yield taken due to crop injury and poor berry production. The area selected for the trial had weak raspberry plants but strong thistle pressure.
In the Trt-Eval Interval, " WAT" refers to weeks after treatmant.

The Ohio State University

RASPBERRIES, BLACK - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO

Trial ID: RASPBLMESOW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	CHLOROSIS	CHLOROSIS	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%
Rating Date				4/13/2006	4/19/2006	5/3/2006	5/19/2006	5/19/2006
Trt-Eval Interval				1 WAE	2 WAE	4 WAE	1 WAT	1 WAT
Spray Timing				PRE	PRE	PRE	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
UNTREATED CONTROL				0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE	25	50	29		
CALLISTO	6	FL OZ/A	PRE	54	83	64		
CALLISTO+	3	FL OZ/A	PRE	29	60	43	33	13
CALLISTO+	3	FL OZ/A	POST					
NIS	0.22	QT/A	POST					
CALLISTO+	3	FL OZ/A	POST	0	0	0	15	10
NIS	0.22	QT/A	POST					
CASORON	100	LB/A	POST	0	0	0	3	3
LSD (P=.05)				10	15	11	8	9
Standard Deviation				6.5	10	7.3	4.7	5.7
CV				36.27	31.13	32.54	37.71	90.43

The Ohio State University

RASPBERRIES, BLACK - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO

Trial ID: RASPBLMESOW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				CIRAR			CIRAR	
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	PLANT	PLANT	WEED	PLANT
Rating Data Type				CONTROL	CHLOROSIS	STUNT	CONTROL	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				5/19/2006	6/2/2006	6/2/2006	6/2/2006	6/16/2006
Trt-Eval Interval				1 WAT	2 WAT	2 WAT	2 WAT	4 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
UNTREATED CONTROL				0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE					
CALLISTO	6	FL OZ/A	PRE					
CALLISTO+	3	FL OZ/A	PRE	33	71	24	29	51
CALLISTO+	3	FL OZ/A	POST					
NIS	0.22	QT/A	POST					
CALLISTO+	3	FL OZ/A	POST	25	66	21	31	46
NIS	0.22	QT/A	POST					
CASORON	100	LB/A	POST	30	8	11	30	4
LSD (P=.05)				13	8	8	8	10
Standard Deviation				8.3	5.1	5.2	5.3	6.3
CV				37.9	14.17	36.65	23.42	24.69

The Ohio State University

RASPBERRIES, BLACK - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO

Trial ID: RASPBLMESOW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					CIRAR
Crop Code				RUBSG	RUBSG
Part Rated				PLANT	WEED
Rating Data Type				STUNT	CONTROL
Rating Unit				%	%
Rating Date				6/16/2006	6/16/2006
Trt-Eval Interval				4 WAT	4 WAT
Spray Timing				POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12
UNTREATED CONTROL				0	0
CALLISTO	3	FL OZ/A	PRE		
CALLISTO	6	FL OZ/A	PRE		
CALLISTO+	3	FL OZ/A	PRE	14	15
CALLISTO+	3	FL OZ/A	POST		
NIS	0.22	QT/A	POST		
CALLISTO+	3	FL OZ/A	POST	13	20
NIS	0.22	QT/A	POST		
CASORON	100	LB/A	POST	6	26
LSD (P=.05)				5	7
Standard Deviation				3.2	4.1
CV				39.72	26.8

The Ohio State University

RASPBERRIES, BLACK - WEED CONTROL AND CROP TOLERANCE WITH CHATEAU

Trial ID: RASBLCHATW 2006
Location: Wooster, Ohio

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

TRIAL LOCATION

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

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 04/10/06

Objective: To confirm and expand on the list of minor use crops for potential Mesotrione label expansion.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	CIRAR	Canada thistle	*Cirsium arvense (L) SCOP.*

Crop 1: RUBSG BLACK RASPBERRY
Variety: JEWEL
Planting Date: 05/15/02
Planting Method: CONVENTIONAL
Rate: 600 PLANTS/A
Depth: 3 IN
Perennial Age: 3 YEARS
Row Spacing: 10 FT
Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 4 FT
Plot Length, Unit: 10 FT
Site Type: LEVEL FIELD
Reps: 3
Tillage Type: NONE
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 16
% OM: 2.0
Texture: SILT LOAM
% Silt: 70
pH: 6.0
Soil Name: WOOSTER SILT LOAM
% Clay: 12
CEC: 14
Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A
Application Date:	4/20/2006
Time of Day:	11-11:30 AM
Application Method:	SPRAY
Application Timing:	POST
Applic. Placement:	DIRECTED
Air Temp., Unit:	51.3 F
Wind Velocity, Unit:	2.7 MPH
% Cloud Cover:	80

CROP STAGE AT EACH APPLICATION

	A	
Crop 1 Code, Stage:	RUBSG	POST
Stage Scale:	0.5 IN SHOOT	
Height, Unit:	36 IN	

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	CIRAR
Stage Scale:	VEGETATIVE
Height, Unit:	3-6 IN

The Ohio State University

RASPBERRIES, BLACK - WEED CONTROL AND CROP TOLERANCE WITH CHATEAU

Trial ID: RASBLCHATW 2006
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:	8003EVS
Nozzles/Row:	1
Band Width, Unit:	30 IN
Boom Height, Unit:	18 IN
Ground Speed, Unit:	2.2 MPH
Spray Volume, Unit:	25 GPA

Trial Comments:

In the Trt-Eval Interval, " WAT" refers to weeks after treatmant.

The Ohio State University

RASPBERRIES, BLACK - WEED CONTROL AND CROP TOLERANCE WITH CHATEAU

Trial ID: RASBLCHATW 2006
Study Dir.: Doug Doohan and T.Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code						CIRAR			CIRAR
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				PLANT	PLANT	WEED	PLANT	PLANT	WEED
Rating Data Type				BASAL BURN	CHLOROSIS	CONTROL	CHLOROSIS	STUNT	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				4/27/2006	4/27/2006	4/27/2006	5/11/2006	5/11/2006	5/11/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	3 WAT	3 WAT	3 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
CONTROL				0	0	0	0	0	0
CHATEAU+	9	OZ/A	POST	80	0	70	0	30	92
NIS	0.25	QT/A	POST						
CHATEAU+	12	OZ/A	POST	90	0	95	0	40	95
NIS	0.25	QT/A	POST						
CHATEAU+	15	OZ/A	POST	98	0	93	0	43	85
NIS	0.25	QT/A	POST						
LSD (P=.05)				3	0	34	0	12	6
Standard Deviation				1.4	0	17.1	0	5.8	2.9
CV				2.15	0	26.47	0	20.38	4.25

The Ohio State University

RASPBERRIES, BLACK - WEED CONTROL AND CROP TOLERANCE WITH CHATEAU

Trial ID: RASBLCHATW 2006
Study Dir.: Doug Doohan and T.Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code						CIRAR			
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				PLANT	PLANT	WEED	BERRY	BERRY	BERRY
Rating Data Type				CHLOROSIS	STUNT	CONTROL	YIELD	YIELD	TTL YIELD
Rating Unit				%	%	%	OZ	OZ	OZ
Rating Date				6/1/2006	6/1/2006	6/1/2006	7/14/2006	7/17/2006	7/17/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	HARVEST	HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
CONTROL				0	0	0	5.33	5.33	10.66
CHATEAU+	9	OZ/A	POST	0	20	20	7	6.33	13.33
NIS	0.25	QT/A	POST						
CHATEAU+	12	OZ/A	POST	0	28	27	5.67	5.67	11.34
NIS	0.25	QT/A	POST						
CHATEAU+	15	OZ/A	POST	10	43	23	4.67	3.67	8.34
NIS	0.25	QT/A	POST						
LSD (P=.05)				0	9	7	3	4	5
Standard Deviation				0	4.6	3.4	1.599	2.186	2.646
CV				0	20.25	19.63	28.21	41.63	24.24

The Ohio State University

RASPBERRIES, BLACK - WEED CONTROL AND CROP TOLERANCE WITH FALL APPLICATIONS OF CALLISTO AND STINGER

Trial ID: BLRASPFALLTH 2006
Location: Wooster, Ohio

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

TRIAL LOCATION

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

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 11/08/05
Planned Completion Date:10/30/06

Objective: To confirm and expand on the list of minor use crops for potential Mesotrione label expansion.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	CIRAR	Canada thistle	*Cirsium arvense (L) SCOP.*

Crop 1: RUBSG BLACK RASPBERRY Variety: BLACK MACK
Planting Date: 05/15/00 Planting Method: CONVENTIONAL
Rate: 600 PLANTS/A Depth: 3 IN Perennial Age: 6 YEARS
Row Spacing: 10 FT Seed Bed: CONVENTIONAL
Emergence Date: 04/05/06

SITE AND DESIGN

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

Plot Length, Unit: 15 FT
Reps: 4
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 16
% Silt: 70
% Clay: 12

% OM: 2.0
pH: 6.0
CEC: 14

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

APPLICATION DESCRIPTION

	A	B
Application Date:	11/8/2005	2/24/2006
Time of Day:	10-11 AM	8-9 AM
Application Method:	SPRAY	SPREAD
Application Timing:	LPOST	DORMANT
Applic. Placement:	DIR & OTT	SIDEDRESS
Air Temp., Unit:	51.9 F	23.6 F
% Relative Humidity:	73.8	64.4
Wind Velocity, Unit:	0 MPH	2 MPH
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	80	0

CROP STAGE AT EACH APPLICATION

	A		B	
Crop 1 Code, Stage:	RUBSG	LPOST	RUBSG	POST
Stage Scale:	LEAF DROP		2 IN SHOOT	
Height, Unit:	4 FT		3 FT	

The Ohio State University

RASPBERRIES, BLACK - WEED CONTROL AND CROP TOLERANCE WITH FALL APPLICATIONS OF CALLISTO AND STINGER

Trial ID: BLRASPFALLTH 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

WEED STAGE AT EACH APPLICATION

	A		B	
Weed 1 Code, Stage:	CIRAR	LPOST	CIRAR	DORMANT
Stage Scale:	18-30 IN		DORMANT	
Density, Unit:	MEDIUM	PLOT	MEDIUM	PLOT

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	SPREADER
Operating Pressure:	35	
Nozzle Type:	FLAT FAN	
Nozzle Size:	8002VS	
Nozzle Spacing, Unit:	18 IN	
Nozzles/Row:	2	
Band Width, Unit:	36 IN	
Boom Height, Unit:	15 IN	
Ground Speed, Unit:	2.5 MPH	3 MPH
Spray Volume, Unit:	25 GPA	

Trial Comments

Plants had recently dropped leaves when these plots were sprayed on 11/8/05. For the directed spray, a single nozzle was used for each side of the plant row.

Plants were actually pruned during the week of 2/20 to 2/24/06. Casoron 4G was applied on 2/24/06 using a Spyker hand spreader, (setting 2.3) , for delivery of 100# per treated acre.

Plants just starting to leaf out on 4/05/06; control plots thistle are 1-5" tall , (3-12 leaves).

In the Trt-Eval Interval column, the heading **" WAEMER"** refers to **weeks after emergence** in regards to the raspberry plants.

We harvested one rep on two dates using one 50 cm.x 50 cm. quadrat laid overtop the raspberry plants, picking all ripe berries within the quadrat.

The Ohio State University

RASPBERRIES, BLACK - WEED CONTROL AND CROP TOLERANCE WITH FALL APPLICATIONS OF CALLISTO AND STINGER

Trial ID: BLRASPFALLTH 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					CIRAR		CIRAR	
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				PLANT	WEED	PLANT	WEED	PLANT
Rating Data Type				CHLOROSIS	CONTROL	CHLOROSIS	CONTROL	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				4/13/2006	4/13/2006	4/20/2006	4/20/2006	5/19/2006
Trt-Eval Interval				1 WAEMER	1 WAEMER	2 WAEMER	2 WAEMER	5 WAEMER
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
CONTROL				0	0	0	0	0
CALLISTO+	7.4	OZ/A	POST	6	6	13	10	28
COC	1	QT/A	POST					
CALLISTO+	14.8	OZ/A	POST OTT	34	89	65	86	50
COC	1	QT/A	POST OTT					
STINGER	4	OZ/A	POST	0	0	0	0	0
STINGER	8	OZ/A	POST	0	88	0	89	0
STINGER	12	OZ/A	POST	0	91	0	90	0
CASORON	100	LB/A	POST	0	0	0	0	0
LSD (P=.05)				3	4	6	2	5
Standard Deviation				2	2.6	4.2	1.3	3.1
CV				35.29	6.64	37.74	3.31	28.45

The Ohio State University

RASPBERRIES, BLACK - WEED CONTROL AND CROP TOLERANCE WITH FALL APPLICATIONS OF CALLISTO AND STINGER

Trial ID: BLRASPFALLTH 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					CIRAR			CIRAR
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				PLANT	WEED	PLANT	PLANT	WEED
Rating Data Type				STUNT	CONTROL	CHLOROSIS	STUNT	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/19/2006	5/19/2006	6/1/2006	6/1/2006	6/1/2006
Trt-Eval Interval				5 WAEMER	5 WAEMER	7 WAEMER	7 WAEMER	7 WAEMER
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
CONTROL				0	0	0	0	0
CALLISTO+	7.4	OZ/A	POST	15	56	18	6	10
COC	1	QT/A	POST					
CALLISTO+	14.8	OZ/A	POST OTT	23	84	26	25	50
COC	1	QT/A	POST OTT					
STINGER	4	OZ/A	POST	0	5	0	0	0
STINGER	8	OZ/A	POST	0	45	0	0	24
STINGER	12	OZ/A	POST	0	84	0	0	26
CASORON	100	LB/A	POST	0	75	0	0	50
LSD (P=.05)				3	15	4	7	9
Standard Deviation				2	9.9	2.9	4.8	6
CV				37.18	19.89	45.91	106.77	26.33

The Ohio State University

RASPBERRIES, BLACK - WEED CONTROL AND CROP TOLERANCE WITH FALL APPLICATIONS OF CALLISTO AND STINGER

Trial ID: BLRASPFALLTH 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code						
Crop Code				RUBSG	RUBSG	RUBSG
Part Rated				BERRY	BERRY	BERRY
Rating Data Type				YIELD	YIELD	TTL YIELD
Rating Unit				OZ / PLOT	OZ / PLOT	OZ / PLOT
Rating Date				7/14/2006	7/17/2006	7/17/2006
Trt-Eval Interval				HARVEST	HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13
CONTROL				7	4	11
CALLISTO+	7.4	OZ/A	POST	1	2	3
COC	1	QT/A	POST			
CALLISTO+	14.8	OZ/A	POST OTT	3	2	5
COC	1	QT/A	POST OTT			
STINGER	4	OZ/A	POST	2	7	9
STINGER	8	OZ/A	POST	4	3	7
STINGER	12	OZ/A	POST	5	5	10
CASORON	100	LB/A	POST	4	3	7
LSD (P=.05)				.	.	.
Standard Deviation				.	.	.
CV				.	.	.

The Ohio State University

RASPBERRIES, RED - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO

Trial ID: REDRASPMESOW 2006 | Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio | Investigator: Doug Doohan

TRIAL LOCATION

City: Wooster | Trial Status: Final
State/Prov.: Ohio | Trial Reliability: Reliable
Postal Code: 44691 | Initiation Date: 03/22/06
Country: USA | Planned Completion Date: 10/30/06

Objective: To confirm and expand on the list of minor use crops for potential Mesotrione label expansion.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	CIRAR	Canada thistle	*Cirsium arvense (L) SCOP.*

Crop 1: RUBSG RED RASPBERRY Variety: TITAN, REVELIE
Planting Date: 05/15/02 | Planting Method: CONVENTIONAL
Rate: 600 PLANTS/A | Perennial Age: 4 YEARS
Row Spacing: 10 FT | Seed Bed: CONVENTIONAL
Emergence Date: 04/05/06 | Depth: 3 IN

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: 16	% OM: 2.0	Texture: SILT LOAM
% Silt: 70	pH: 6.0	Soil Name: WOOSTER SILT LOAM
% Clay: 12	CEC: 14	Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A	B
Application Date:	3/22/2006	5/13/2006
Time of Day:	1-2 PM	2-3 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	DIRECTED	DIRECTED
Air Temp., Unit:	31.2 F	58.9 F
% Relative Humidity:	72.8	68.1
Wind Velocity, Unit:	1.1 MPH	5 MPH
Dew Presence (Y/N):	N	N
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	100	75

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	RUBSG PRE	RUBSG POST
Stage Scale:	DORMANT	PRE-BLOOM
Height, Unit:	4 FT	4 FT

The Ohio State University

RASPBERRIES, RED - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO

Trial ID: REDRASPMESOW 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

WEED STAGE AT EACH APPLICATION

	A		B	
Weed 1 Code, Stage:	CIRAR	PRE	CIRAR	POST
Stage Scale:	.		6-10 IN	
Density, Unit:	. .		LOW	PLOT

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	40	40
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8003EVS	8003EVS
Nozzles/Row:	1	1
Band Width, Unit:	30 IN	30 N
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	2.5 MPH	2.5 MPH
Spray Volume, Unit:	22 GPA	22 GPA
Propellant:	CO2	CO2

Trial Comments

The objective of this trial is crop tolerance to Callisto.

Weed control was very good overall; (Casoron was applied by grower @ 100# per treated acre late February)., prior to our Callisto applications, so there really were no weeds to rate other than scattered perennial grasses and Canada thistle, (stunting only).
Red raspberries were unpruned at time of spray, and started leafing out around April 5.

In the Trt-Eval Interval column, the heading **" WAEMER"** refers to weeks after emergence in regards to the raspberry plants.

Thistle plants were cut down by mistake by farm labor prior to the 4WATPOST timing, so that rating was not taken.
Due to miscommunication, berries were harvested beforehand by pickers and yield records were not taken.
In the Trt-Eval Interval, " WAT" refers to weeks after treatmant.

The Ohio State University

RASPBERRIES, RED - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO

Trial ID: REDRASPMESOW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	CHLOROSIS	CHLOROSIS	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%
Rating Date				4/12/2006	4/19/2006	5/3/2006	5/19/2006	5/19/2006
Trt-Eval Interval				1 WAEMER	2 WAEMER	4 WAEMER	1 WAT	1 WAT
Spray Timing				PRE	PRE	PRE	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
CONTROL				0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE	10	13	5		
CALLISTO	6	FL OZ/A	PRE	20	33	10		
CALLISTO+	3	FL OZ/A	PRE	10	14	5	15	3
CALLISTO+	3	FL OZ/A	POST					
NIS	0.22	QT/A	POST					
CALLISTO+	3	FL OZ/A	POST				11	3
NIS	0.22	QT/A	POST					
CASORON	100	LB/A	POST				0	0
LSD (P=.05)				0	6	0	2	5
Standard Deviation				0	3.6	0	1.3	2.9
CV				0	24.24	0	19.05	230.94

The Ohio State University

RASPBERRIES, RED - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO

Trial ID: REDRASPMESOW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				CIRAR			CIRAR
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	PLANT	PLANT	WEED
Rating Data Type				CONTROL	CHLOROSIS	STUNT	CONTROL
Rating Unit				%	%	%	%
Rating Date				5/19/2006	6/2/2006	6/2/2006	6/2/2006
Trt-Eval Interval				1 WAT	2 WAT	2 WAT	2 WAT
Spray Timing				POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9
CONTROL				0	0	0	0
CALLISTO	3	FL OZ/A	PRE				
CALLISTO	6	FL OZ/A	PRE				
CALLISTO+	3	FL OZ/A	PRE	10	39	11	35
CALLISTO+	3	FL OZ/A	POST				
NIS	0.22	QT/A	POST				
CALLISTO+	3	FL OZ/A	POST	10	43	11	33
NIS	0.22	QT/A	POST				
CASORON	100	LB/A	POST	14	0	0	8
LSD (P=.05)				6	10	3	13
Standard Deviation				3.8	6.1	1.9	8.3
CV				44.44	30.22	33.13	44.44

The Ohio State University

STRAWBERRY - EFFECT OF HIGH SOIL PH ON CULTIVAR RESPONSE TO SPARTAN

Trial ID: STRAWHIGHPHW2005/2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

TRIAL LOCATION

City: Wooster Trial Status: Final
State/Prov.: Ohio Trial Reliability: Reliable
Postal Code: 44691 Initiation Date: 05/27/05
Country: USA Planned Completion Date: 12/15/05

Objective: Evaluate differential response to Spartan of the most popular cultivars currently planted in Ohio.

Crop 1: FRAAN STRAWBERRY Variety: 6 VARIETIES
Planting Date: 05/27/05 Planting Method: MACHINE PLANTED
Rate: 1 PLANT PER 12 IN Depth: 4 IN
Row Spacing: 5 FT Seed Bed: CONVENTIONAL
Soil Moisture: MOIST

SITE AND DESIGN

Plot Width, Unit: 8 FT Plot Length, Unit: 10 FT
Site Type: LEVEL FIELD Reps: 3
Tillage Type: CONVENTIONAL Study Design: SPLIT-PLOT

SOIL DESCRIPTION

% Sand:15 % OM: 3.0 Texture: SILT LOAM
% Silt: 70 pH: 6.7 Soil Name: WOOSTER SILT LOAM
% Clay:12 CEC:8.8 Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A
Application Date:	11/7/2005
Time of Day:	11AM-12 PM
Application Method:	SPRAY
Application Timing:	POST
Applic. Placement:	BROADCAST
Air Temp., Unit:	58 F
% Relative Humidity:	45
Wind Velocity, Unit:	5 MPH
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A	
Crop 1 Code, Stage:	FRAAN	POST
Stage Scale:	VEGETAT	
Height, Unit:	12 IN	

The Ohio State University

STRAWBERRY - EFFECT OF HIGH SOIL PH ON CULTIVAR RESPONSE TO SPARTAN

Trial ID: STRAWHIGHPHW2005/2006 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:	8002VS
Nozzle Spacing, Unit:	15 IN
Nozzles/Row:	4
Band Width, Unit:	60 IN
Boom Height, Unit:	15 IN
Ground Speed, Unit:	2.5 MPH
Spray Volume, Unit:	25 GPA

Trial Comments

The strawberry varieties planted were:
1. Brunswick
2. Cabot
3. Darselect
4. Evangeline
5. Honeoye
6. Jewel

The plots consisted of a double row, 10' long and 5 feet apart. Strawberries were machine planted, and were spaced every 12" inches in the row. This trial's intent was herbicide injury to strawberry varieties, not weed control.
In the Trt-Eval Interval, **" WAE"** refers to weeks after emergence.

The Ohio State University

STRAWBERRY - EFFECT OF HIGH SOIL PH ON CULTIVAR RESPONSE TO SPARTAN

Trial ID: STRAWHIGHPHW 2005
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code							
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	FRUIT
Rating Data Type				STUNT	CHLOROSIS	ROW THIN	TTL YLD
Rating Unit				%	%	%	LBS/PLOT
Rating Date				4/26/2006	4/26/2006	4/26/2006	6/15/2006
Trt-Eval Interval				2 WAE	2 WAE	2 WAE	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4
BRUNSWICK				0	0	0	11.18
UNTREATED CONTROL							
BRUNSWICK				0	0	0	9.96
SPARTAN	4	OZ/A	POST				
BRUNSWICK				0	0	0	11.18
SPARTAN	8	OZ/A	POST				
BRUNSWICK				0	0	0	15.45
SPARTAN	16	OZ/A	POST				
CABOT				0	0	0	6.95
UNTREATED CONTROL							
CABOT				0	0	0	6.85
SPARTAN	4	OZ/A	POST				
CABOT				0	0	10	4.72
SPARTAN	8	OZ/A	POST				
CABOT				0	0	15	6.73
SPARTAN	16	OZ/A	POST				
DARSELECT				0	0	0	12.37
UNTREATED CONTROL							
DARSELECT				0	0	0	12.71
SPARTAN	4	OZ/A	POST				
DARSELECT				0	0	0	10.77
SPARTAN	8	OZ/A	POST				
DARSELECT				0	0	10	12.19
SPARTAN	16	OZ/A	POST				
EVANGELINE				0	0	0	10.12
UNTREATED CONTROL							
EVANGELINE				0	0	7	9.77
SPARTAN	4	OZ/A	POST				
EVANGELINE				0	0	8	10.54
SPARTAN	8	OZ/A	POST				

The Ohio State University

STRAWBERRY - EFFECT OF HIGH SOIL PH ON CULTIVAR RESPONSE TO SPARTAN

Trial ID: STRAWHIGHPHW 2005
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code							
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	FRUIT
Rating Data Type				STUNT	CHLOROSIS	ROW THIN	TTL YLD
Rating Unit				%	%	%	LBS/PLOT
Rating Date				4/26/2006	4/26/2006	4/26/2006	6/15/2006
Trt-Eval Interval				2 WAE	2 WAE	2 WAE	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4
EVANGELINE				0	0	17	11.27
SPARTAN	16	OZ/A	POST				
HONEOYE				0	0	0	13.93
UNTREATED CONTROL							
HONEOYE				0	0	0	15.66
SPARTAN	4	OZ/A	POST				
HONEOYE				0	0	0	15.85
SPARTAN	8	OZ/A	POST				
HONEOYE				0	0	0	12.81
SPARTAN	16	OZ/A	POST				
JEWEL				0	0	0	7.75
UNTREATED CONTROL							
JEWEL				0	0	0	7.85
SPARTAN	4	OZ/A	POST				
JEWEL				0	0	5	8.1
SPARTAN	8	OZ/A	POST				
JEWEL				0	0	8	7.41
SPARTAN	16	OZ/A	POST				
LSD (P=.05)				0	0	9	3
Standard Deviation				0	0	5.7	1.828
CV				0	0	170	17.41

The Ohio State University

STRAWBERRY - EFFECT OF SOIL ORGANIC MATTER ON CULTIVAR RESPONSE TO SINBAR 1

Trial ID: STRAWSOILOMW 2005/2006
Location: Wooster, Ohio

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

TRIAL LOCATION

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

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 05/10/05
Planned Completion Date: 10/15/06

Objective: Evaluate differential response to Sinbar of the most popular cultivars currently planted in Ohio.

Crop 1: FRAAN STRAWBERRY
Variety: 6 VARIETIES
Planting Date: 05/10/05
Planting Method: HAND PLANTED
Rate: 1 PLANT EVERY 6"
Depth: 4 IN
Row Spacing: 5 FT
Seed Bed: CONVENTIONAL
Soil Moisture: MOIST

SITE AND DESIGN

Plot Width, Unit: 6 FT
Plot Length, Unit: 30 FT
Site Type: LEVEL FIELD
Reps: 3
Tillage Type: CONVENTIONAL
Study Design: SPLIT-PLOT

SOIL DESCRIPTION

% Sand: 15	% OM: 3.0	Texture: SILT LOAM
% Silt: 67	pH: 6.3	Soil Name: WOOSTER SILT LOAM
% Clay: 15	CEC: 8.5	Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A
Application Date:	5/10/2005
Time of Day:	4-5 PM
Application Method:	SPRAY
Application Timing:	POSTTP
Applic. Placement:	BROADCAST
Air Temp., Unit:	78 F
% Relative Humidity:	50
Wind Velocity, Unit:	3 MPH
Dew Presence (Y/N):	N
Soil Moisture:	MOIST
% Cloud Cover:	80

CROP STAGE AT EACH APPLICATION

	A	
Crop 1 Code, Stage:	FRAAN	POSTTP
Stage Scale:	DORMANT	
Height, Unit:	1 IN	

The Ohio State University

STRAWBERRY - EFFECT OF SOIL ORGANIC MATTER ON CULTIVAR RESPONSE TO SINBAR 1

Trial ID: STRAWSOILOMW 2005/2006 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:	8002VS
Nozzle Spacing, Unit:	18 IN
Nozzles/Row:	2
Band Width, Unit:	24 IN
Boom Height, Unit:	15 IN
Ground Speed, Unit:	2.5 MPH
Spray Volume, Unit:	25 GPA

Trial Comments

The strawberry varieties planted were:
1. Brunswick
2. Cabot
3. Darselect
4. Evangeline
5. Honeoye
6. Jewel

The plots consisted of a double row, 5' long and 5 feet apart. Strawberries were hand planted, and were spaced every 6" inches in the row. This trial's intent was herbicide injury to strawberry varieties, not weed control.
In the Trt-Eval Interval, " **WAE**" refers to weeks after emergence, and " **WAT**" refers to weeks after treatmant.

The Ohio State University

STRAWBERRY - EFFECT OF SOIL ORGANIC MATTER ON CULTIVAR RESPONSE TO SINBAR
1

Trial ID: STRAWSOILOMW 2005/2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code									
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				BURN	STUNT	LEAF CURL	CHLOROSIS	BURN	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				5/17/2005	5/17/2005	5/17/2005	5/17/2005	5/31/2005	5/31/2005
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	3 WAT	3 WAT
Treatment Name	Prod. Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
BRUNSWICK				0	0	0	0	0	0
UNTREATED CONTROL									
BRUNSWICK				3	0	3	0	0	0
SINBAR	1.5	OZ/A	POSTTP						
BRUNSWICK				7	0	0	0	0	0
SINBAR	3	OZ/A	POSTTP						
BRUNSWICK				3	5	3	0	0	0
SINBAR	6	OZ/A	POSTTP						
CABOT				0	0	0	0	0	0
UNTREATED CONTROL									
CABOT				3	0	3	0	0	7
SINBAR	1.5	OZ/A	POSTTP						
CABOT				0	0	0	0	0	7
SINBAR	3	OZ/A	POSTTP						
CABOT				5	10	5	0	0	22
SINBAR	6	OZ/A	POSTTP						
DARSELECT				0	0	0	0	0	0
UNTREATED CONTROL									
DARSELECT				3	0	0	0	0	3
SINBAR	1.5	OZ/A	POSTTP						
DARSELECT				7	5	5	0	0	5
SINBAR	3	OZ/A	POSTTP						
DARSELECT				7	3	7	5	0	7
SINBAR	6	OZ/A	POSTTP						
EVANGELINE				0	0	0	0	0	0
UNTREATED CONTROL									
EVANGELINE				30	3	22	7	0	10
SINBAR	1.5	OZ/A	POSTTP						
EVANGELINE				25	8	28	18	0	10
SINBAR	3	OZ/A	POSTTP						

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STRAWBERRY - EFFECT OF SOIL ORGANIC MATTER ON CULTIVAR RESPONSE TO SINBAR
1

Trial ID: STRAWSOILOMW 2005/2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code									
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				BURN	STUNT	LEAF CURL	CHLOROSIS	BURN	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				5/17/2005	5/17/2005	5/17/2005	5/17/2005	5/31/2005	5/31/2005
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	3 WAT	3 WAT
Treatment Name	Prod. Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
EVANGELINE				30	22	33	18	0	33
SINBAR	6	OZ/A	POSTTP						
HONEOYE				0	0	0	0	0	0
UNTREATED CONTROL									
HONEOYE				5	0	10	10	0	3
SINBAR	1.5	OZ/A	POSTTP						
HONEOYE				22	10	33	12	0	25
SINBAR	3	OZ/A	POSTTP						
HONEOYE				27	15	38	38	13	23
SINBAR	6	OZ/A	POSTTP						
JEWEL				0	0	0	0	0	0
UNTREATED CONTROL									
JEWEL				25	17	27	0	0	5
SINBAR	1.5	OZ/A	POSTTP						
JEWEL				33	12	20	12	0	10
SINBAR	3	OZ/A	POSTTP						
JEWEL				32	18	25	2	0	10
SINBAR	6	OZ/A	POSTTP						
LSD (P=.05)				19	16	16	13	8	15
Standard Deviation				11.2	9.4	9.7	8.1	4.7	9.2
CV				100.69	175.73	88.71	160.61	848.53	123.16

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STRAWBERRY - EFFECT OF SOIL ORGANIC MATTER ON CULTIVAR RESPONSE TO SINBAR
1

Trial ID: STRAWSOILOMW 2005/2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				LEAF CURL	CHLOROSIS	BURN	STUNT	LEAF CURL
Rating Unit				%	%	%	%	%
Rating Date				5/31/2005	5/31/2005	6/21/2005	6/21/2005	6/21/2005
Trt-Eval Interval				3 WAT	3 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Prod. Rate	Product Rate Unit	Grow Stg	7	8	9	10	11
BRUNSWICK				0	0	0	0	0
UNTREATED CONTROL								
BRUNSWICK				0	0	0	0	0
SINBAR	1.5	OZ/A	POSTTP					
BRUNSWICK				0	0	0	0	0
SINBAR	3	OZ/A	POSTTP					
BRUNSWICK				0	0	0	0	0
SINBAR	6	OZ/A	POSTTP					
CABOT				0	0	0	0	0
UNTREATED CONTROL								
CABOT				0	0	0	0	0
SINBAR	1.5	OZ/A	POSTTP					
CABOT				5	2	0	2	0
SINBAR	3	OZ/A	POSTTP					
CABOT				7	10	0	5	0
SINBAR	6	OZ/A	POSTTP					
DARSELECT				0	0	0	0	0
UNTREATED CONTROL								
DARSELECT				0	0	0	8	0
SINBAR	1.5	OZ/A	POSTTP					
DARSELECT				0	0	0	7	0
SINBAR	3	OZ/A	POSTTP					
DARSELECT				0	0	0	7	0
SINBAR	6	OZ/A	POSTTP					
EVANGELINE				0	0	0	0	0
UNTREATED CONTROL								
EVANGELINE				0	0	0	5	0
SINBAR	1.5	OZ/A	POSTTP					
EVANGELINE				0	0	0	8	0
SINBAR	3	OZ/A	POSTTP					

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STRAWBERRY - EFFECT OF SOIL ORGANIC MATTER ON CULTIVAR RESPONSE TO SINBAR
1

Trial ID: STRAWSOILOMW 2005/2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				LEAF CURL	CHLOROSIS	BURN	STUNT	LEAF CURL
Rating Unit				%	%	%	%	%
Rating Date				5/31/2005	5/31/2005	6/21/2005	6/21/2005	6/21/2005
Trt-Eval Interval				3 WAT	3 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Prod. Rate	Product Rate Unit	Grow Stg	7	8	9	10	11
EVANGELINE				0	0	0	20	0
SINBAR	6	OZ/A	POSTTP					
HONEOYE				0	0	0	0	0
UNTREATED CONTROL								
HONEOYE				0	0	0	0	0
SINBAR	1.5	OZ/A	POSTTP					
HONEOYE				3	3	0	10	0
SINBAR	3	OZ/A	POSTTP					
HONEOYE				3	3	0	17	0
SINBAR	6	OZ/A	POSTTP					
JEWEL				0	0	0	0	0
UNTREATED CONTROL								
JEWEL				0	0	0	3	0
SINBAR	1.5	OZ/A	POSTTP					
JEWEL				0	0	0	3	0
SINBAR	3	OZ/A	POSTTP					
JEWEL				0	0	2	3	0
SINBAR	6	OZ/A	POSTTP					
LSD (P=.05)				5	6	1	13	0
Standard Deviation				3.1	3.7	0.6	7.8	0
CV				403.4	487.07	848.53	189.4	0

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STRAWBERRY - EFFECT OF SOIL ORGANIC MATTER ON CULTIVAR RESPONSE TO SINBAR
1

Trial ID: STRAWSOILOMW 2005/2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	FRUIT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	ROW THIN	TTL YLD
Rating Unit				%	%	%	%	LBS PLOT
Rating Date				6/21/2005	4/26/2006	4/26/2006	4/26/2006	6/15/2006
Trt-Eval Interval				6 WAT	2 WAE	2 WAE	2 WAE	HARVEST
Treatment Name	Prod. Rate	Product Rate Unit	Grow Stg	12	13	14	15	16
BRUNSWICK UNTREATED CONTROL				0	0	0	0	14.52
BRUNSWICK SINBAR	1.5	OZ/A	POSTTP	0	0	0	0	14.79
BRUNSWICK SINBAR	3	OZ/A	POSTTP	0	0	0	0	12.48
BRUNSWICK SINBAR	6	OZ/A	POSTTP	0	0	0	0	14.58
CABOT UNTREATED CONTROL				0	0	0	0	3.62
CABOT SINBAR	1.5	OZ/A	POSTTP	0	0	0	0	4.48
CABOT SINBAR	3	OZ/A	POSTTP	0	0	0	0	2.61
CABOT SINBAR	6	OZ/A	POSTTP	1	0	0	0	5.47
DARSELECT UNTREATED CONTROL				0	0	0	0	9.75
DARSELECT SINBAR	1.5	OZ/A	POSTTP	0	0	0	0	8.71
DARSELECT SINBAR	3	OZ/A	POSTTP	0	0	0	0	7.45
DARSELECT SINBAR	6	OZ/A	POSTTP	0	0	0	0	7.77
EVANGELINE UNTREATED CONTROL				0	0	0	0	13.8
EVANGELINE SINBAR	1.5	OZ/A	POSTTP	0	0	0	0	11.66
EVANGELINE SINBAR	3	OZ/A	POSTTP	0	0	0	0	10.76

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STRAWBERRY - EFFECT OF SOIL ORGANIC MATTER ON CULTIVAR RESPONSE TO SINBAR
1

Trial ID: STRAWSOILOMW 2005/2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	FRUIT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	ROW THIN	TTL YLD
Rating Unit				%	%	%	%	LBS PLOT
Rating Date				6/21/2005	4/26/2006	4/26/2006	4/26/2006	6/15/2006
Trt-Eval Interval				6 WAT	2 WAE	2 WAE	2 WAE	HARVEST
Treatment Name	Prod. Rate	Product Rate Unit	Grow Stg	12	13	14	15	16
EVANGELINE				0	0	0	0	10.97
SINBAR	6	OZ/A	POSTTP					
HONEOYE				0	0	0	0	15.51
UNTREATED CONTROL								
HONEOYE				0	0	0	0	16.94
SINBAR	1.5	OZ/A	POSTTP					
HONEOYE				0	0	0	0	12.73
SINBAR	3	OZ/A	POSTTP					
HONEOYE				0	0	0	0	13.49
SINBAR	6	OZ/A	POSTTP					
JEWEL				0	0	0	0	6
UNTREATED CONTROL								
JEWEL				0	0	0	0	8.45
SINBAR	1.5	OZ/A	POSTTP					
JEWEL				0	0	0	0	8.31
SINBAR	3	OZ/A	POSTTP					
JEWEL				0	0	0	0	6.91
SINBAR	6	OZ/A	POSTTP					
LSD (P=.05)				0.4	0	0	0	3
Standard Deviation				0.2	0	0	0	1.719
CV				848.53	0	0	0	17.06

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STRAWBERRY - EFFECT OF SOIL ORGANIC MATTER ON CULTIVAR RESPONSE TO SINBAR 2

Trial ID: STRAWOMTR#2 2005/2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

TRIAL LOCATION

City: Wooster Trial Status: Final
State/Prov.: Ohio Trial Reliability: Reliable
Postal Code: 44691 Initiation Date: 05/27/05
Country: USA Planned Completion Date: 10/15/06

Objective: Evaluate differential response to Sinbar of the most popular cultivars currently planted in Ohio.

Crop 1: FRAAN STRAWBERRY Variety: 5 VARIETIES
Planting Date: 05/27/05 Planting Method: MACHINE PLANTED
Rate: 1 PLANT EVERY 12" Depth: 4 IN
Row Spacing: 5 FT
Soil Moisture: MOIST

SITE AND DESIGN

Plot Width, Unit: 6 FT Plot Length, Unit: 60 FT
Site Type: LEVEL FIELD Reps: 3
Tillage Type: CONVENTIONAL Study Design: SPLIT-PLOT

SOIL DESCRIPTION

% Sand: 15 % OM: 3.0 Texture: SILT LOAM
% Silt: 67 pH: 6.3 Soil Name: WOOSTER SILT LOAM
% Clay: 15 CEC: 8.5 Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A
Application Date:	6/20/2005
Time of Day:	11-12AM
Application Method:	SPRAY
Application Timing:	POST
Applic. Placement:	BROADCAST
Air Temp., Unit:	72 F
% Relative Humidity:	56
Wind Velocity, Unit:	3 MPH
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	FRAAN POST
Stage Scale:	3-4 LF
Height, Unit:	4 IN

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STRAWBERRY - EFFECT OF SOIL ORGANIC MATTER ON CULTIVAR RESPONSE TO SINBAR 2

Trial ID: STRAWOMTR#2 2005/2006 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:	8002VS
Nozzle Spacing, Unit:	15 IN
Nozzles/Row:	4
Band Width, Unit:	60 IN
Boom Height, Unit:	15 IN
Ground Speed, Unit:	2.5 MPH
Spray Volume, Unit:	25 GPA

Trial Comments

The strawberry varieties planted were:
1. Brunswick
2. Darselect
3. Evangeline
4. Honeoye
5. Jewel

Cabot **was included** in the treatment list, but **was not actually planted due to unavailability**. The plots consisted of a double row, 10' long and 5 feet apart. Strawberries were machine planted, and were spaced every twelve inches in the row. This trial's intent was herbicide injury to strawberry varieties, not weed control.
In the Trt-Eval Interval, " **WAE**" refers to weeks after emergence, and " **WAT**" refers to weeks after treatment.

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STRAWBERRY - EFFECT OF SOIL ORGANIC MATTER ON CULTIVAR RESPONSE TO SINBAR 2

Trial ID: STRAWOMTR#2 2005/2006
Study Dir.: Doug Doohan and T. Koch
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				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				BURN	STUNT	LEAF CURL	CHLOROSIS	BURN	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				6/27/2005	6/27/2005	6/27/2005	6/27/2005	7/11/2005	7/11/2005
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	3 WAT	3 WAT
BRUNSWICK UNTREATED CONTROL				0	0	0	0	0	0
BRUNSWICK SINBAR	1.5	OZ/A	POSTTP	27	0	0	18	8	2
BRUNSWICK SINBAR	3	OZ/A	POSTTP	37	0	0	23	10	2
BRUNSWICK SINBAR	6	OZ/A	POSTTP	40	0	0	40	15	3
CABOT UNTREATED CONTROL				0	0	0	0	0	0
CABOT SINBAR	1.5	OZ/A	POSTTP	0	0	0	0	0	0
CABOT SINBAR	3	OZ/A	POSTTP	0	0	0	0	0	0
CABOT SINBAR	6	OZ/A	POSTTP	0	0	0	0	0	0
DARSELECT UNTREATED CONTROL				0	0	0	0	0	0
DARSELECT SINBAR	1.5	OZ/A	POSTTP	5	0	0	12	5	0
DARSELECT SINBAR	3	OZ/A	POSTTP	0	0	0	23	12	0
DARSELECT SINBAR	6	OZ/A	POSTTP	35	0	0	23	15	3
EVANGELINE UNTREATED CONTROL				0	0	0	0	0	0
EVANGELINE SINBAR	1.5	OZ/A	POSTTP	5	0	0	12	3	0
EVANGELINE SINBAR	3	OZ/A	POSTTP	20	0	0	20	5	2

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STRAWBERRY - EFFECT OF SOIL ORGANIC MATTER ON CULTIVAR RESPONSE TO SINBAR 2

Trial ID: STRAWOMTR#2 2005/2006
Study Dir.: Doug Doohan and T. Koch
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				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				BURN	STUNT	LEAF CURL	CHLOROSIS	BURN	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				6/27/2005	6/27/2005	6/27/2005	6/27/2005	7/11/2005	7/11/2005
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	3 WAT	3 WAT
EVANGELINE				23	0	0	23	7	7
SINBAR	6	OZ/A	POSTTP						
HONEOYE				0	0	0	0	0	0
UNTREATED CONTROL									
HONEOYE				27	0	0	27	7	2
SINBAR	1.5	OZ/A	POSTTP						
HONEOYE				33	0	0	33	12	3
SINBAR	3	OZ/A	POSTTP						
HONEOYE				28	0	0	43	12	3
SINBAR	6	OZ/A	POSTTP						
JEWEL				0	0	0	0	0	0
UNTREATED CONTROL									
JEWEL				22	0	0	0	12	3
SINBAR	1.5	OZ/A	POSTTP						
JEWEL				30	0	0	0	15	7
SINBAR	3	OZ/A	POSTTP						
JEWEL				38	0	0	12	20	12
SINBAR	6	OZ/A	POSTTP						
LSD (P=.05)				14	0	0	15	4	6
Standard Deviation				8.5	0	0	9.3	2.5	3.8
CV				55.06	0	0	72.27	37.83	188.64

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STRAWBERRY - EFFECT OF SOIL ORGANIC MATTER ON CULTIVAR RESPONSE TO SINBAR 2

Trial ID: STRAWOMTR#2 2005/2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				LEAF CURL	CHLOROSIS	BURN	STUNT	LEAF CURL
Rating Unit				%	%	%	%	%
Rating Date				7/11/2005	7/11/2005	8/1/2005	8/1/2005	8/1/2005
Trt-Eval Interval				3 WAT	3 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11
BRUNSWICK				0	0	0	0	0
UNTREATED CONTROL								
BRUNSWICK				0	10	0	0	0
SINBAR	1.5	OZ/A	POSTTP					
BRUNSWICK				0	10	0	7	0
SINBAR	3	OZ/A	POSTTP					
BRUNSWICK				0	15	0	12	0
SINBAR	6	OZ/A	POSTTP					
CABOT				0	0	0	0	0
UNTREATED CONTROL								
CABOT				0	0	0	0	0
SINBAR	1.5	OZ/A	POSTTP					
CABOT				0	0	0	0	0
SINBAR	3	OZ/A	POSTTP					
CABOT				0	0	0	0	0
SINBAR	6	OZ/A	POSTTP					
DARSELECT				0	0	0	0	0
UNTREATED CONTROL								
DARSELECT				0	5	0	0	0
SINBAR	1.5	OZ/A	POSTTP					
DARSELECT				0	17	1	8	0
SINBAR	3	OZ/A	POSTTP					
DARSELECT				0	18	0	12	0
SINBAR	6	OZ/A	POSTTP					
EVANGELINE				0	0	0	0	0
UNTREATED CONTROL								
EVANGELINE				0	5	0	3	0
SINBAR	1.5	OZ/A	POSTTP					
EVANGELINE				0	8	0	3	0
SINBAR	3	OZ/A	POSTTP					

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STRAWBERRY - EFFECT OF SOIL ORGANIC MATTER ON CULTIVAR RESPONSE TO SINBAR 2

Trial ID: STRAWOMTR#2 2005/2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				LEAF CURL	CHLOROSIS	BURN	STUNT	LEAF CURL
Rating Unit				%	%	%	%	%
Rating Date				7/11/2005	7/11/2005	8/1/2005	8/1/2005	8/1/2005
Trt-Eval Interval				3 WAT	3 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11
EVANGELINE				0	10	0	18	0
SINBAR	6	OZ/A	POSTTP					
HONEOYE				0	0	0	0	0
UNTREATED CONTROL								
HONEOYE				0	8	0	3	0
SINBAR	1.5	OZ/A	POSTTP					
HONEOYE				0	10	0	5	0
SINBAR	3	OZ/A	POSTTP					
HONEOYE				0	8	0	10	0
SINBAR	6	OZ/A	POSTTP					
JEWEL				0	0	0	0	0
UNTREATED CONTROL								
JEWEL				0	10	0	0	0
SINBAR	1.5	OZ/A	POSTTP					
JEWEL				0	8	0	13	0
SINBAR	3	OZ/A	POSTTP					
JEWEL				0	17	0	18	0
SINBAR	6	OZ/A	POSTTP					
LSD (P=.05)				0	5	0.4	8	0
Standard Deviation				0	3.1	0.2	4.6	0
CV				0	46.37	848.53	98.19	0

The Ohio State University

STRAWBERRY - EFFECT OF SOIL ORGANIC MATTER ON CULTIVAR RESPONSE TO SINBAR 2

Trial ID: STRAWOMTR#2 2005/2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	FRUIT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	ROW THIN	TTL YLD
Rating Unit				%	%	%	%	LBS PLOT
Rating Date				8/1/2005	4/26/2006	4/26/2006	4/26/2006	6/22/2006
Trt-Eval Interval				6 WAT	2 WAE	2 WAE	2 WAE	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	12	13	14	15	16
BRUNSWICK UNTREATED CONTROL				0	0	0	0	14.73
BRUNSWICK SINBAR	1.5	OZ/A	POSTTP	1	0	0	0	13.37
BRUNSWICK SINBAR	3	OZ/A	POSTTP	2	0	0	0	15.41
BRUNSWICK SINBAR	6	OZ/A	POSTTP	2	0	0	0	15.31
CABOT UNTREATED CONTROL				0	0	0	0	
CABOT SINBAR	1.5	OZ/A	POSTTP	0	0	0	0	
CABOT SINBAR	3	OZ/A	POSTTP	0	0	0	0	
CABOT SINBAR	6	OZ/A	POSTTP	0	0	0	0	
DARSELECT UNTREATED CONTROL				0	0	0	0	10.48
DARSELECT SINBAR	1.5	OZ/A	POSTTP	0	0	0	0	10.37
DARSELECT SINBAR	3	OZ/A	POSTTP	1	0	0	0	9.58
DARSELECT SINBAR	6	OZ/A	POSTTP	2	0	0	0	11.96
EVANGELINE UNTREATED CONTROL				0	0	0	0	11.98
EVANGELINE SINBAR	1.5	OZ/A	POSTTP	0	0	0	0	14.52
EVANGELINE SINBAR	3	OZ/A	POSTTP	0	0	0	0	12.64

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STRAWBERRY - EFFECT OF SOIL ORGANIC MATTER ON CULTIVAR RESPONSE TO SINBAR 2

Trial ID: STRAWOMTR#2 2005/2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	FRUIT
Rating Data Type				CHLOROSIS	STUNT	CHLOROSIS	ROW THIN	TTL YLD
Rating Unit				%	%	%	%	LBS PLOT
Rating Date				8/1/2005	4/26/2006	4/26/2006	4/26/2006	6/22/2006
Trt-Eval Interval				6 WAT	2 WAE	2 WAE	2 WAE	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	12	13	14	15	16
EVANGELINE				0	0	0	0	11.75
SINBAR	6	OZ/A	POSTTP					
HONEOYE				0	0	0	0	15
UNTREATED CONTROL								
HONEOYE				2	0	0	0	15.25
SINBAR	1.5	OZ/A	POSTTP					
HONEOYE				0	0	0	0	13.16
SINBAR	3	OZ/A	POSTTP					
HONEOYE				0	0	0	0	14.02
SINBAR	6	OZ/A	POSTTP					
JEWEL				0	0	0	0	7.77
UNTREATED CONTROL								
JEWEL				0	0	0	0	9.06
SINBAR	1.5	OZ/A	POSTTP					
JEWEL				1	0	0	0	9.06
SINBAR	3	OZ/A	POSTTP					
JEWEL				0	0	0	0	9.6
SINBAR	6	OZ/A	POSTTP					
LSD (P=.05)				2	0	0	0	3
Standard Deviation				1.2	0	0	0	1.97
CV				309.31	0	0	0	16.08

The Ohio State University

STRAWBERRIES - TOLERANCE OF EIGHT CULTIVARS TO STINGER

Trial ID: STRAWSTINGW 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

TRIAL LOCATION

City: Wooster Trial Status: Final
State/Prov.: Ohio Trial Reliability: Reliable
Postal Code: 44691 Initiation Date: 02/22/06
Country: USA Planned Completion Date: 05/15/06

Objective: Testing sensitivity of strawberry cultivars to three rates of Stinger.

Crop 1: FRAAN STRAWBERRY Variety: 11 VARIETIES
Planting Date: 08/05/04 Planting Method: IN 8" POTS
Depth: 6 IN

SITE AND DESIGN

Plot Width, Unit: 5 FT Plot Length, Unit: 5 FT
Site Type: GREENHOUSE GROWN PLANTS
Study Design: SPLIT-PLOT Reps: 8

SOIL DESCRIPTION

Texture: PEAT/PERLITE
Soil Name: PRO MIX BX
Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A
Application Date:	2/22/2006
Time of Day:	2-5 PM
Application Method:	SPRAY
Application Timing:	POST
Applic. Placement:	BROADCAST
Air Temp., Unit:	72 F
% Relative Humidity:	50
Wind Velocity, Unit:	0 MPH
Dew Presence (Y/N):	N
Soil Moisture:	MOIST

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	FRAAN POST
Stage Scale:	PRE - BLOOM
Height, Unit:	12 IN

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STRAWBERRIES - TOLERANCE OF EIGHT CULTIVARS TO STINGER

Trial ID: STRAWSTINGW 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

APPLICATION EQUIPMENT

	A
Appl. Equipment:	LPCAT
Operating Pressure:	40
Nozzle Type:	FLAT FAN
Nozzle Size:	XR 8003
Nozzles/Row:	1
Boom Height, Unit:	18 IN
Ground Speed, Unit:	4.5 MPH
Spray Volume, Unit:	20 GPA

Trial Comments:

This trial was sprayed using at the LPCAT lab at the OARDC using greenhouse grown plants.The lab is set up to simulate field spraying with an indoor track and spray booms. In general sprayed plants exhibited petiole stretching There was no apparent injury, just a different appearance to the plant.

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STRAWBERRIES - TOLERANCE OF EIGHT CULTIVARS TO STINGER

Trial ID: STRAWSTINGW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code						
Crop Code				FRAAN	FRAAN	FRAAN
Part Rated				STEM	STEM	STEM
Rating Data Type				STRETCHING	STRETCHING	STRETCHING
Rating Unit				%	%	%
Rating Date				3/1/2006	3/8/2006	3/15/2006
Trt-Eval Interval				1 WAT	2 WAT	3 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3
CONTROL **ALLSTAR**				0	0	0
CONTROL **CHANDLER**				0	0	0
CONTROL **CLANCY**				0	0	0
CONTROL **EARLIGLOW**				0	0	0
CONTROL **EROS**				0	0	0
CONTROL **JEWEL**				0	0	0
CONTROL **LAMOUR**				0	0	0
CONTROL **MIRA**				0	0	0
STINGER **ALLSTAR**	0.119	PT/A	POST	10	10	10
STINGER **CHANDLER**	0.119	PT/A	POST	11.9	10.6	13.8
STINGER **CLANCY**	0.119	PT/A	POST	6.9	8.8	8.8
STINGER **EARLIGLOW**	0.119	PT/A	POST	10	9.4	10
STINGER **EROS**	0.119	PT/A	POST	10	10	10
STINGER **JEWEL**	0.119	PT/A	POST	11.9	28.8	39.4
STINGER **LAMOUR**	0.119	PT/A	POST	19.4	26.9	18.8

The Ohio State University

STRAWBERRIES - TOLERANCE OF EIGHT CULTIVARS TO STINGER

Trial ID: STRAWSTINGW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

STINGER **MIRA**	0.119	PT/A	POST	16.3	40	37.5
STINGER **ALLSTAR**	0.237	PT/A	POST	10	10	10.6
STINGER **CHANDLER**	0.237	PT/A	POST	17.5	14.4	17.5
STINGER **CLANCY**	0.237	PT/A	POST	8.8	8.1	10
STINGER **EARLIGLOW**	0.237	PT/A	POST	10.6	8.1	10
STINGER **EROS**	0.237	PT/A	POST	10.6	10	10
STINGER **JEWEL**	0.237	PT/A	POST	10.6	26.9	39.4
STINGER **LAMOUR**	0.237	PT/A	POST	22.5	28.1	23.8
STINGER **MIRA**	0.237	PT/A	POST	22.5	31.3	43.8
STINGER **ALLSTAR**	0.475	PT/A	POST	10	11.3	16.3
STINGER **CHANDLER**	0.475	PT/A	POST	28.8	21.9	28.8
STINGER **CLANCY**	0.475	PT/A	POST	26.9	14.4	16.3
STINGER **EARLIGLOW**	0.475	PT/A	POST	15	15	11.9
STINGER **EROS**	0.475	PT/A	POST	18.1	10.6	10.6
STINGER **JEWEL**	0.475	PT/A	POST	19.4	30.6	45
STINGER **LAMOUR**	0.475	PT/A	POST	28.8	37.5	33.8
STINGER **MIRA**	0.475	PT/A	POST	23.8	41.3	48.1
LSD (P=.05)				2	4	3
Standard Deviation				2.49	4.47	3.08
CV				20.96	30.84	18.82

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STRAWBERRIES - TOLERANCE OF FOURTEEN CULTIVARS TO STINGER AND SPARTAN

Trial ID: STRAWCULTOL 2006 | Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio | Investigator: Doug Doohan

TRIAL LOCATION

City: Wooster | Trial Status: Final
State/Prov.:Ohio | Trial Reliability: Reliable
Postal Code:44691 | Initiation Date: 05/10/06
Country: USA | Planned Completion Date:10/15/06

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	AGRASS	annual grasses (various)	*Panicum spp.and Digitaria spp.*
2	AMAXX	pigweed spp.	*Amaranthus spp.*
3	AMBEL	common ragweed	*Ambrosia artemesifolia L.*
4	CAPBP	shepherd's purse	*Capsella bursa-pastoris (L.) Medicus*
5	CYPES	yellow nutsedge	*Cyperus esculentes L.*
6	LEPVI	Virginia pepperweed	*Lepidium virginicum L.*
7	MOLVE	carpetweed	*Mollugo verticillata L.*
8	POLAV	prostrate knotweed	*Polygonum aviculare L.*
9	POLPY	Pennsylvania smartweed	*Polygonum pensylvanicum L.*
10	POROL	common purslane	*Portulaca oleracea L.*
11	RUMOB	broadleaf dock	*Rumex obtusfolius L.*
12	SENVU	common groundsel	*Senecio vularis L.*
13	SINAR	wild mustard	*Brassica kaber (D.C.) L.C.Wheeler*
14	TAROF	dandelion	*Taraxacum officinale Weber*
15	TRFRE	white clover	*Trifolium repens L.*

Crop 1: FRAAN STRAWBERRY | Variety: 14 VARIETIES
Planting Date: 05/10/06 | Planting Method: MACHINE PLANTED
Rate: 1 PER 12 IN | Depth: 2 IN
Row Spacing: 36 IN | Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 10 FT | Plot Length, Unit: 60 FT
Site Type: LEVEL FIELD | Reps: 1
Tillage Type: CONVENTIONAL | Study Design: SPLIT-PLOT

SOIL DESCRIPTION

% Sand: 15 | % OM: 3.0 | Texture: SILT LOAM
% Silt: 67 | pH: 6.3 | Soil Name: WOOSTER SILT LOAM
% Clay: 15 | CEC: 8.5 | Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A
Application Date:	5/30/2006
Time of Day:	4-5 PM
Application Method:	SPRAY
Application Timing:	POST
Applic. Placement:	BROADCAST
Air Temp., Unit:	35.2 C
% Relative Humidity:	23
Wind Velocity, Unit:	2.4 MPH
% Cloud Cover:	20

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STRAWBERRIES - TOLERANCE OF FOURTEEN CULTIVARS TO STINGER AND SPARTAN

Trial ID: STRAWCULTOL 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	FRAAN POST
Stage Scale:	2 TRUE LF
Height, Unit:	4 IN

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	AGRASS POST
Stage Scale:	.
Density, Unit:	. .
Weed 2 Code, Stage:	AMAXX POST
Stage Scale:	.
Density, Unit:	. .
Weed 3 Code, Stage:	AMBEL POST
Stage Scale:	.
Density, Unit:	. .
Weed 4 Code, Stage:	CAPBP POST
Stage Scale:	.
Density, Unit:	. .
Weed 5 Code, Stage:	CYPES POST
Stage Scale:	.
Density, Unit:	. .
Weed 6 Code, Stage:	LEPVI POST
Stage Scale:	.
Density, Unit:	. .
Weed 7 Code, Stage:	MOLVE POST
Stage Scale:	.
Density, Unit:	. .
Weed 8 Code, Stage:	POLAV POST
Stage Scale:	.
Density, Unit:	. .
Weed 9 Code, Stage:	POLPY POST
Stage Scale:	.
Density, Unit:	. .
Weed10 Code, Stage:	POROL POST
Stage Scale:	.
Density, Unit:	. .
Weed11 Code, Stage:	RUMOB POST
Stage Scale:	.
Density, Unit:	. .
Weed12 Code, Stage:	SENVU POST
Stage Scale:	.
Density, Unit:	. .
Weed13 Code, Stage:	SINAR POST
Stage Scale:	.
Density, Unit:	. .
Weed14 Code, Stage:	TAROF POST
Stage Scale:	.
Density, Unit:	. .
Weed15 Code, Stage:	TRFRE POST
Stage Scale:	.
Density, Unit:	. .

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STRAWBERRIES - TOLERANCE OF FOURTEEN CULTIVARS TO STINGER AND SPARTAN

Trial ID: STRAWCULTOL 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	40
Nozzle Type:	FLAT FAN
Nozzle Size:	8002VS
Nozzle Spacing, Unit:	18 IN
Nozzles/Row:	4
Band Width, Unit:	72 IN
Boom Height, Unit:	18 IN
Ground Speed, Unit:	2.5 MPH
Spray Volume, Unit:	25 GPA

Trial Comments

The varieties in the trial included:
1) ALLSTAR
2) BRUNSWICK
3) CABOT
4) CAVENDISH
5) CLANCY
6) DARSELECT
7) EARLIGLOW
8) EROS
9) HONEOYE
10) ITASCA
11) JEWEL STRAW
12) LAMOUR
13) OVATION
14) SENECA

The Ohio State University

STRAWBERRIES - TOLERANCE OF FOURTEEN CULTIVARS TO STINGER AND SPARTAN

Trial ID: STRAWCULTOL 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code									
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	BURN	STUNT	LEAF CURL	CHLOROSIS	BURN
Rating Unit				%	%	%	%	%	%
Rating Date				6/6/2006	6/6/2006	6/6/2006	6/6/2006	6/20/2006	6/20/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	3 WAT	3 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
UNTREATED CONTROL **ALLSTAR**				0	0	0	0	0	0
UNTREATED CONTROL **BRUNSWICK**				0	0	0	0	0	0
UNTREATED CONTROL **CABOT**				0	0	0	0	0	0
UNTREATED CONTROL **CAVENDISH**				0	0	0	0	0	0
UNTREATED CONTROL **CLANCY**				0	0	0	0	0	0
UNTREATED CONTROL **DARSELECT**				0	0	0	0	0	0
UNTREATED CONTROL **EARLIGLOW**				0	0	0	0	0	0
UNTREATED CONTROL **EROS**				0	0	0	0	0	0
UNTREATED CONTROL **HONEOYE**				0	0	0	0	0	0
UNTREATED CONTROL **ITASCA**				0	0	0	0	0	0
UNTREATED CONTROL **JEWEL STRAW**				0	0	0	0	0	0
UNTREATED CONTROL **LAMOUR**				0	0	0	0	0	0
UNTREATED CONTROL **OVATION**				0	0	0	0	0	0
UNTREATED CONTROL **SENECA**				0	0	0	0	0	0
SINBAR **A LLSTAR**	1.5	OZ/A	B	0	0	0	0	0	5

The Ohio State University

STRAWBERRIES - TOLERANCE OF FOURTEEN CULTIVARS TO STINGER AND SPARTAN

Trial ID: STRAWCULTOL 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code									
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	BURN	STUNT	LEAF CURL	CHLOROSIS	BURN
Rating Unit				%	%	%	%	%	%
Rating Date				6/6/2006	6/6/2006	6/6/2006	6/6/2006	6/20/2006	6/20/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	3 WAT	3 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
SINBAR **BRUNSWICK**	1.5	OZ/A	B	0	0	0	0	0	0
SINBAR **CABOT**	1.5	OZ/A	B	0	0	25	0	0	0
SINBAR **CAVENDISH**	1.5	OZ/A	B	0	0	0	0	0	0
SINBAR **CLANCY**	1.5	OZ/A	B	0	0	15	0	0	0
SINBAR **DARSELECT**	1.5	OZ/A	B	0	0	0	0	0	0
SINBAR **EARLIGLOW**	1.5	OZ/A	B	0	0	0	0	0	0
SINBAR **EROS**	1.5	OZ/A	B	0	15	25	15	10	10
SINBAR **HONEOYE**	1.5	OZ/A	B	0	10	10	0	0	5
SINBAR **ITASCA**	1.5	OZ/A	B	0	0	0	0	0	0
SINBAR **JEWEL STRAW**	1.5	OZ/A	B	0	0	0	0	0	0
SINBAR **LAMOUR**	1.5	OZ/A	B	0	0	0	0	0	0
SINBAR **OVATION**	1.5	OZ/A	B	0	0	25	5	0	0
SINBAR **SENECA**	1.5	OZ/A	B	0	0	0	0	0	0
SINBAR **A LLSTAR**	3	OZ/A	B	0	5	35	10	10	5
SINBAR **BRUNSWICK**	3	OZ/A	B	0	5	20	0	10	0

The Ohio State University

STRAWBERRIES - TOLERANCE OF FOURTEEN CULTIVARS TO STINGER AND SPARTAN

Trial ID: STRAWCULTOL 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code									
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	BURN	STUNT	LEAF CURL	CHLOROSIS	BURN
Rating Unit				%	%	%	%	%	%
Rating Date				6/6/2006	6/6/2006	6/6/2006	6/6/2006	6/20/2006	6/20/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	3 WAT	3 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
SINBAR **CABOT**	3	OZ/A	B	0	10	40	0	10	5
SINBAR **CAVENDISH**	3	OZ/A	B	0	0	0	0	0	0
SINBAR **CLANCY**	3	OZ/A	B	15	15	40	5	15	5
SINBAR **DARSELECT**	3	OZ/A	B	10	5	5	10	15	0
SINBAR **EARLIGLOW**	3	OZ/A	B	0	0	0	0	0	0
SINBAR **EROS**	3	OZ/A	B	10	50	35	25	0	20
SINBAR **HONEOYE**	3	OZ/A	B	10	15	20	5	5	5
SINBAR **ITASCA**	3	OZ/A	B	10	0	10	0	5	0
SINBAR **JEWEL STRAW**	3	OZ/A	B	0	0	0	0	0	0
SINBAR **LAMOUR**	3	OZ/A	B	0	0	15	0	0	0
SINBAR **OVATION**	3	OZ/A	B	0	10	5	0	0	5
SINBAR **SENECA**	3	OZ/A	B	15	10	15	15	5	5
SINBAR **A LLSTAR**	6	OZ/A	B	15	30	20	20	15	15
SINBAR **BRUNSWICK**	6	OZ/A	B	0	5	15	10	10	5
SINBAR **CABOT**	6	OZ/A	B	5	20	10	20	5	10

The Ohio State University

STRAWBERRIES - TOLERANCE OF FOURTEEN CULTIVARS TO STINGER AND SPARTAN

Trial ID: STRAWCULTOL 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code									
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	BURN	STUNT	LEAF CURL	CHLOROSIS	BURN
Rating Unit				%	%	%	%	%	%
Rating Date				6/6/2006	6/6/2006	6/6/2006	6/6/2006	6/20/2006	6/20/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	3 WAT	3 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
SINBAR **CAVENDISH**	6	OZ/A	B	5	0	5	0	15	5
SINBAR CLANCY	6	OZ/A	B	10	30	30	30	25	15
SINBAR **DARSELECT**	6	OZ/A	B	10	0	0	0	15	0
SINBAR **EARLIGLOW**	6	OZ/A	B	0	5	0	0	5	10
SINBAR **EROS**	6	OZ/A	B	15	40	20	30	10	15
SINBAR **HONEOYE**	6	OZ/A	B	15	30	30	30	5	15
SINBAR **ITASCA**	6	OZ/A	B	10	5	10	0	15	5
SINBAR **JEWEL STRAW**	6	OZ/A	B	5	10	25	15	10	10
SINBAR **LAMOUR**	6	OZ/A	B	0	0	0	0	5	5
SINBAR **OVATION**	6	OZ/A	B	10	5	10	5	5	5
SINBAR **SENECA**	6	OZ/A	B	10	15	15	15	0	5
SPARTAN **A LLSTAR**	4	OZ/A	B	10	15	10	15	0	0
SPARTAN **BRUNSWICK**	4	OZ/A	B	0	0	0	0	0	0
SPARTAN **CABOT**	4	OZ/A	B	0	0	0	0	0	0
SPARTAN **CAVENDISH**	4	OZ/A	B	0	5	10	0	0	0

The Ohio State University

STRAWBERRIES - TOLERANCE OF FOURTEEN CULTIVARS TO STINGER AND SPARTAN

Trial ID: STRAWCULTOL 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code									
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	BURN	STUNT	LEAF CURL	CHLOROSIS	BURN
Rating Unit				%	%	%	%	%	%
Rating Date				6/6/2006	6/6/2006	6/6/2006	6/6/2006	6/20/2006	6/20/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	3 WAT	3 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
SPARTAN **CLANCY**	4	OZ/A	B	15	25	25	15	15	0
SPARTAN **DARSELECT**	4	OZ/A	B	0	0	0	0	10	0
SPARTAN **EARLIGLOW**	4	OZ/A	B	0	0	0	0	0	0
SPARTAN **EROS**	4	OZ/A	B	10	5	10	5	0	0
SPARTAN **HONEOYE**	4	OZ/A	B	10	25	15	15	5	0
SPARTAN **ITASCA**	4	OZ/A	B	5	5	10	5	0	0
SPARTAN **JEWEL STRAW**	4	OZ/A	B	0	0	0	5	5	0
SPARTAN **LAMOUR**	4	OZ/A	B	0	5	15	5	0	0
SPARTAN **OVATION**	4	OZ/A	B	0	5	0	5	0	0
SPARTAN **SENECA**	4	OZ/A	B	10	15	10	10	0	0
SPARTAN **A LLSTAR**	8	OZ/A	B	20	20	0	25	0	0
SPARTAN **BRUNSWICK**	8	OZ/A	B	0	0	0	0	0	0
SPARTAN **CABOT**	8	OZ/A	B	10	10	0	0	0	0
SPARTAN **CAVENDISH**	8	OZ/A	B	0	5	0	5	0	0
SPARTAN **CLANCY**	8	OZ/A	B	15	30	25	30	5	0

The Ohio State University

STRAWBERRIES - TOLERANCE OF FOURTEEN CULTIVARS TO STINGER AND SPARTAN

Trial ID: STRAWCULTOL 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code									
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	BURN	STUNT	LEAF CURL	CHLOROSIS	BURN
Rating Unit				%	%	%	%	%	%
Rating Date				6/6/2006	6/6/2006	6/6/2006	6/6/2006	6/20/2006	6/20/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	3 WAT	3 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
SPARTAN **DARSELECT**	8	OZ/A	B	10	5	30	5	5	0
SPARTAN **EARLIGLOW**	8	OZ/A	B	0	0	0	5	0	0
SPARTAN **EROS**	8	OZ/A	B	0	5	10	0	5	10
SPARTAN **HONEOYE**	8	OZ/A	B	0	5	0	5	0	0
SPARTAN **ITASCA**	8	OZ/A	B	0	0	0	0	0	0
SPARTAN **JEWEL STRAW**	8	OZ/A	B	0	10	0	0	5	0
SPARTAN **LAMOUR**	8	OZ/A	B	0	5	40	5	0	0
SPARTAN **OVATION**	8	OZ/A	B	0	0	0	0	0	0
SPARTAN **SENECA**	8	OZ/A	B	0	15	15	20	0	0
LSD (P=.05)				.	.	.	.	.	.
Standard Deviation				.	.	.	.	.	.
CV				.	.	.	.	.	.

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STRAWBERRIES - TOLERANCE OF FOURTEEN CULTIVARS TO STINGER AND SPARTAN

Trial ID: STRAWCULTOL 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code									
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				STUNT	LEAF CURL	LEAF DISTOR	CHLOROSIS	BURN	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				6/20/2006	6/20/2006	6/20/2006	7/11/2006	7/11/2006	7/11/2006
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
UNTREATED CONTROL **ALLSTAR**				0	0	0	0	0	0
UNTREATED CONTROL **BRUNSWICK**				0	0	0	0	0	0
UNTREATED CONTROL **CABOT**				0	0	0	0	0	0
UNTREATED CONTROL **CAVENDISH**				0	0	0	0	0	0
UNTREATED CONTROL **CLANCY**				0	0	0	0	0	0
UNTREATED CONTROL **DARSELECT**				0	0	0	0	0	0
UNTREATED CONTROL **EARLIGLOW**				0	0	0	0	0	0
UNTREATED CONTROL **EROS**				0	0	0	0	0	0
UNTREATED CONTROL **HONEOYE**				0	0	0	0	0	0
UNTREATED CONTROL **ITASCA**				0	0	0	0	0	0
UNTREATED CONTROL **JEWEL STRAW**				0	0	0	0	0	0
UNTREATED CONTROL **LAMOUR**				0	0	0	0	0	0
UNTREATED CONTROL **OVATION**				0	0	0	0	0	0
UNTREATED CONTROL **SENECA**				0	0	0	0	0	0
SINBAR **A LLSTAR**	1.5	OZ/A	B	10	5	0	0	0	0

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Trial ID: STRAWCULTOL 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code									
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				STUNT	LEAF CURL	LEAF DISTOR	CHLOROSIS	BURN	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				6/20/2006	6/20/2006	6/20/2006	7/11/2006	7/11/2006	7/11/2006
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
SINBAR **BRUNSWICK**	1.5	OZ/A	B	0	0	0	0	0	10
SINBAR **CABOT**	1.5	OZ/A	B	30	0	0	0	0	20
SINBAR **CAVENDISH**	1.5	OZ/A	B	0	0	0	0	0	0
SINBAR **CLANCY**	1.5	OZ/A	B	10	10	10	0	0	0
SINBAR **DARSELECT**	1.5	OZ/A	B	0	0	0	0	0	0
SINBAR **EARLIGLOW**	1.5	OZ/A	B	0	0	0	0	0	0
SINBAR **EROS**	1.5	OZ/A	B	30	10	0	0	0	0
SINBAR **HONEOYE**	1.5	OZ/A	B	30	5	0	0	0	0
SINBAR **ITASCA**	1.5	OZ/A	B	0	0	0	0	0	0
SINBAR **JEWEL STRAW**	1.5	OZ/A	B	0	0	0	0	0	0
SINBAR **LAMOUR**	1.5	OZ/A	B	0	0	0	0	0	0
SINBAR **OVATION**	1.5	OZ/A	B	15	0	0	0	0	0
SINBAR **SENECA**	1.5	OZ/A	B	0	0	0	0	0	0
SINBAR **A LLSTAR**	3	OZ/A	B	20	0	0	0	0	0
SINBAR **BRUNSWICK**	3	OZ/A	B	35	0	0	0	0	15

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Trial ID: STRAWCULTOL 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code									
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				STUNT	LEAF CURL	LEAF DISTOR	CHLOROSIS	BURN	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				6/20/2006	6/20/2006	6/20/2006	7/11/2006	7/11/2006	7/11/2006
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
SINBAR **CABOT**	3	OZ/A	B	35	0	0	0	0	10
SINBAR **CAVENDISH**	3	OZ/A	B	5	0	0	0	0	15
SINBAR **CLANCY**	3	OZ/A	B	25	5	0	0	0	20
SINBAR **DARSELECT**	3	OZ/A	B	0	0	0	0	0	0
SINBAR **EARLIGLOW**	3	OZ/A	B	0	0	0	0	0	0
SINBAR **EROS**	3	OZ/A	B	30	15	0	0	0	15
SINBAR **HONEOYE**	3	OZ/A	B	20	5	0	0	0	0
SINBAR **ITASCA**	3	OZ/A	B	0	0	0	0	0	5
SINBAR **JEWEL STRAW**	3	OZ/A	B	0	0	0	0	0	0
SINBAR **LAMOUR**	3	OZ/A	B	10	0	0	0	0	0
SINBAR **OVATION**	3	OZ/A	B	10	5	0	0	0	0
SINBAR **SENECA**	3	OZ/A	B	25	5	0	0	0	0
SINBAR **A LLSTAR**	6	OZ/A	B	50	15	0	0	0	20
SINBAR **BRUNSWICK**	6	OZ/A	B	30	5	0	0	0	15
SINBAR **CABOT**	6	OZ/A	B	35	5	0	0	0	15

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

Weed Code									
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				STUNT	LEAF CURL	LEAF DISTOR	CHLOROSIS	BURN	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				6/20/2006	6/20/2006	6/20/2006	7/11/2006	7/11/2006	7/11/2006
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
SINBAR **CAVENDISH**	6	OZ/A	B	25	5	0	0	0	20
SINBAR CLANCY	6	OZ/A	B	50	5	0	0	0	20
SINBAR **DARSELECT**	6	OZ/A	B	0	0	0	0	0	5
SINBAR **EARLIGLOW**	6	OZ/A	B	0	0	0	0	0	5
SINBAR **EROS**	6	OZ/A	B	40	10	0	0	0	15
SINBAR **HONEOYE**	6	OZ/A	B	30	10	0	0	0	0
SINBAR **ITASCA**	6	OZ/A	B	20	0	0	0	0	0
SINBAR **JEWEL STRAW**	6	OZ/A	B	15	5	0	0	0	0
SINBAR **LAMOUR**	6	OZ/A	B	15	0	0	0	0	0
SINBAR **OVATION**	6	OZ/A	B	15	5	0	0	0	0
SINBAR **SENECA**	6	OZ/A	B	20	5	0	0	0	0
SPARTAN **A LLSTAR**	4	OZ/A	B	0	0	0	0	0	0
SPARTAN **BRUNSWICK**	4	OZ/A	B	0	0	0	0	0	15
SPARTAN **CABOT**	4	OZ/A	B	0	0	0	0	0	0
SPARTAN **CAVENDISH**	4	OZ/A	B	0	0	0	0	0	10

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Trial ID: STRAWCULTOL 2006
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Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code									
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				STUNT	LEAF CURL	LEAF DISTOR	CHLOROSIS	BURN	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				6/20/2006	6/20/2006	6/20/2006	7/11/2006	7/11/2006	7/11/2006
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
SPARTAN **CLANCY**	4	OZ/A	B	10	15	10	0	0	0
SPARTAN **DARSELECT**	4	OZ/A	B	0	0	10	0	0	0
SPARTAN **EARLIGLOW**	4	OZ/A	B	0	0	0	0	0	0
SPARTAN **EROS**	4	OZ/A	B	30	0	30	0	0	15
SPARTAN **HONEOYE**	4	OZ/A	B	25	30	30	0	0	5
SPARTAN **ITASCA**	4	OZ/A	B	20	15	15	0	0	0
SPARTAN **JEWEL STRAW**	4	OZ/A	B	15	15	15	0	0	0
SPARTAN **LAMOUR**	4	OZ/A	B	0	0	0	0	0	5
SPARTAN **OVATION**	4	OZ/A	B	15	0	5	0	0	0
SPARTAN **SENECA**	4	OZ/A	B	30	15	15	0	0	0
SPARTAN **A LLSTAR**	8	OZ/A	B	20	10	10	0	0	0
SPARTAN **BRUNSWICK**	8	OZ/A	B	0	0	0	0	0	0
SPARTAN **CABOT**	8	OZ/A	B	0	0	0	0	0	10
SPARTAN **CAVENDISH**	8	OZ/A	B	0	0	0	0	0	0
SPARTAN **CLANCY**	8	OZ/A	B	15	10	10	0	15	0

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Investigator: Doug Doohan

Weed Code									
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				STUNT	LEAF CURL	LEAF DISTOR	CHLOROSIS	BURN	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				6/20/2006	6/20/2006	6/20/2006	7/11/2006	7/11/2006	7/11/2006
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
SPARTAN **DARSELECT**	8	OZ/A	B	15	5	5	0	0	0
SPARTAN **EARLIGLOW**	8	OZ/A	B	0	0	0	0	0	0
SPARTAN **EROS**	8	OZ/A	B	30	15	15	0	0	30
SPARTAN **HONEOYE**	8	OZ/A	B	15	5	5	0	0	0
SPARTAN **ITASCA**	8	OZ/A	B	0	0	0	0	0	0
SPARTAN **JEWEL STRAW**	8	OZ/A	B	0	0	10	0	0	0
SPARTAN **LAMOUR**	8	OZ/A	B	40	0	5	0	0	0
SPARTAN **OVATION**	8	OZ/A	B	15	0	0	0	0	0
SPARTAN **SENECA**	8	OZ/A	B	0	5	15	0	0	0
LSD (P=.05)				.	.	.	.	.	.
Standard Deviation				.	.	.	.	.	.
CV				.	.	.	.	.	.

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STRAWBERRIES - TOLERANCE OF FOURTEEN CULTIVARS TO STINGER AND SPARTAN

Trial ID: STRAWCULTOL 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					AGRASS	MOLVE	TRFRE	TAROF	RUMOB
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	WEED	WEED	WEED	WEED	WEED
Rating Data Type				LEAF CURL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17	18
UNTREATED CONTROL **ALLSTAR**				0	0	0	0	0	0
UNTREATED CONTROL **BRUNSWICK**				0	0	0	0	0	0
UNTREATED CONTROL **CABOT**				0	0	0	0	0	0
UNTREATED CONTROL **CAVENDISH**				0	0	0	0	0	0
UNTREATED CONTROL **CLANCY**				0	0	0	0	0	0
UNTREATED CONTROL **DARSELECT**				0	0	0	0	0	0
UNTREATED CONTROL **EARLIGLOW**				0	0	0	0	0	0
UNTREATED CONTROL **EROS**				0	0	0	0	0	0
UNTREATED CONTROL **HONEOYE**				0	0	0	0	0	0
UNTREATED CONTROL **ITASCA**				0	0	0	0	0	0
UNTREATED CONTROL **JEWEL STRAW**				0	0	0	0	0	0
UNTREATED CONTROL **LAMOUR**				0	0	0	0	0	0
UNTREATED CONTROL **OVATION**				0	0	0	0	0	0
UNTREATED CONTROL **SENECA**				0	0	0	0	0	0
SINBAR **A LLSTAR**	1.5	OZ/A	B	0	60	99	99	99	99

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STRAWBERRIES - TOLERANCE OF FOURTEEN CULTIVARS TO STINGER AND SPARTAN

Trial ID: STRAWCULTOL 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					AGRASS	MOLVE	TRFRE	TAROF	RUMOB
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	WEED	WEED	WEED	WEED	WEED
Rating Data Type				LEAF CURL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17	18
SINBAR **BRUNSWICK**	1.5	OZ/A	B	15	75	99	99	85	99
SINBAR **CABOT**	1.5	OZ/A	B	0	65	99	99	99	99
SINBAR **CAVENDISH**	1.5	OZ/A	B	0	60	99	99	99	99
SINBAR **CLANCY**	1.5	OZ/A	B	0	75	99	99	99	99
SINBAR **DARSELECT**	1.5	OZ/A	B	0	65	99	99	99	99
SINBAR **EARLIGLOW**	1.5	OZ/A	B	0	99	99	80	99	99
SINBAR **EROS**	1.5	OZ/A	B	0	99	99	99	99	99
SINBAR **HONEOYE**	1.5	OZ/A	B	0	50	55	99	99	99
SINBAR **ITASCA**	1.5	OZ/A	B	0	50	99	99	99	99
SINBAR **JEWEL STRAW**	1.5	OZ/A	B	0	25	99	99	99	99
SINBAR **LAMOUR**	1.5	OZ/A	B	0	35	99	99	99	99
SINBAR **OVATION**	1.5	OZ/A	B	0	99	99	99	99	99
SINBAR **SENECA**	1.5	OZ/A	B	0	99	99	99	99	99
SINBAR **A LLSTAR**	3	OZ/A	B	0	95	25	99	99	99
SINBAR **BRUNSWICK**	3	OZ/A	B	0	99	60	99	99	99

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Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					AGRASS	MOLVE	TRFRE	TAROF	RUMOB
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	WEED	WEED	WEED	WEED	WEED
Rating Data Type				LEAF CURL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17	18
SINBAR **CABOT**	3	OZ/A	B	0	25	99	99	99	99
SINBAR **CAVENDISH**	3	OZ/A	B	5	70	99	99	99	99
SINBAR **CLANCY**	3	OZ/A	B	0	99	99	99	99	99
SINBAR **DARSELECT**	3	OZ/A	B	0	99	99	99	99	99
SINBAR **EARLIGLOW**	3	OZ/A	B	0	99	99	99	99	99
SINBAR **EROS**	3	OZ/A	B	0	99	50	99	99	99
SINBAR **HONEOYE**	3	OZ/A	B	0	99	99	99	99	99
SINBAR **ITASCA**	3	OZ/A	B	0	99	99	99	99	99
SINBAR **JEWEL STRAW**	3	OZ/A	B	0	99	99	99	99	99
SINBAR **LAMOUR**	3	OZ/A	B	0	80	99	99	99	99
SINBAR **OVATION**	3	OZ/A	B	0	90	99	99	99	99
SINBAR **SENECA**	3	OZ/A	B	0	99	99	99	99	99
SINBAR **A LLSTAR**	6	OZ/A	B	0	99	99	99	99	99
SINBAR **BRUNSWICK**	6	OZ/A	B	0	99	55	99	99	99
SINBAR **CABOT**	6	OZ/A	B	0	99	99	99	99	99

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

Weed Code					AGRASS	MOLVE	TRFRE	TAROF	RUMOB
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	WEED	WEED	WEED	WEED	WEED
Rating Data Type				LEAF CURL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17	18
SINBAR **CAVENDISH**	6	OZ/A	B	0	99	99	99	99	99
SINBAR CLANCY	6	OZ/A	B	0	99	99	99	99	99
SINBAR **DARSELECT**	6	OZ/A	B	0	99	99	99	99	99
SINBAR **EARLIGLOW**	6	OZ/A	B	0	99	75	99	99	99
SINBAR **EROS**	6	OZ/A	B	0	99	75	99	99	99
SINBAR **HONEOYE**	6	OZ/A	B	0	99	99	99	99	99
SINBAR **ITASCA**	6	OZ/A	B	0	99	99	99	99	99
SINBAR **JEWEL STRAW**	6	OZ/A	B	0	99	99	99	99	99
SINBAR **LAMOUR**	6	OZ/A	B	0	99	99	99	99	99
SINBAR **OVATION**	6	OZ/A	B	0	99	99	99	99	99
SINBAR **SENECA**	6	OZ/A	B	0	99	99	99	99	99
SPARTAN **A LLSTAR**	4	OZ/A	B	0	85	65	99	99	99
SPARTAN **BRUNSWICK**	4	OZ/A	B	0	99	99	99	50	99
SPARTAN **CABOT**	4	OZ/A	B	0	99	99	99	99	99
SPARTAN **CAVENDISH**	4	OZ/A	B	0	99	99	99	65	99

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Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					AGRASS	MOLVE	TRFRE	TAROF	RUMOB
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	WEED	WEED	WEED	WEED	WEED
Rating Data Type				LEAF CURL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17	18
SPARTAN **CLANCY**	4	OZ/A	B	0	99	99	99	99	99
SPARTAN **DARSELECT**	4	OZ/A	B	0	99	99	99	99	99
SPARTAN **EARLIGLOW**	4	OZ/A	B	0	99	99	99	50	99
SPARTAN **EROS**	4	OZ/A	B	0	99	95	99	65	99
SPARTAN **HONEOYE**	4	OZ/A	B	0	99	99	99	75	99
SPARTAN **ITASCA**	4	OZ/A	B	0	99	99	99	99	99
SPARTAN **JEWEL STRAW**	4	OZ/A	B	0	99	99	99	99	99
SPARTAN **LAMOUR**	4	OZ/A	B	0	99	99	99	99	99
SPARTAN **OVATION**	4	OZ/A	B	0	99	99	99	99	99
SPARTAN **SENECA**	4	OZ/A	B	0	99	99	99	90	99
SPARTAN **A LLSTAR**	8	OZ/A	B	0	80	99	99	99	99
SPARTAN **BRUNSWICK**	8	OZ/A	B	0	99	99	99	99	99
SPARTAN **CABOT**	8	OZ/A	B	0	99	99	99	99	99
SPARTAN **CAVENDISH**	8	OZ/A	B	0	99	99	99	99	99
SPARTAN **CLANCY**	8	OZ/A	B	0	99	99	85	99	99

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STRAWBERRIES - TOLERANCE OF FOURTEEN CULTIVARS TO STINGER AND SPARTAN

Trial ID: STRAWCULTOL 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					AGRASS	MOLVE	TRFRE	TAROF	RUMOB
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	WEED	WEED	WEED	WEED	WEED
Rating Data Type				LEAF CURL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17	18
SPARTAN **DARSELECT**	8	OZ/A	B	0	99	99	99	80	99
SPARTAN **EARLIGLOW**	8	OZ/A	B	0	99	99	99	99	99
SPARTAN **EROS**	8	OZ/A	B	0	99	99	99	99	99
SPARTAN **HONEOYE**	8	OZ/A	B	0	99	99	99	99	99
SPARTAN **ITASCA**	8	OZ/A	B	0	99	99	99	99	99
SPARTAN **JEWEL STRAW**	8	OZ/A	B	0	99	99	99	99	99
SPARTAN **LAMOUR**	8	OZ/A	B	0	99	99	99	99	99
SPARTAN **OVATION**	8	OZ/A	B	0	99	99	99	99	99
SPARTAN **SENECA**	8	OZ/A	B	0	99	99	99	99	99
LSD (P=.05)				.	.	.	.	.	.
Standard Deviation				.	.	.	.	.	.
CV				.	.	.	.	.	.

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STRAWBERRIES - TOLERANCE OF FOURTEEN CULTIVARS TO STINGER AND SPARTAN

Trial ID: STRAWCULTOL 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				SENVU	POLAV	SINAR	LEPVI	AMAXX
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19	20	21	22	23
UNTREATED CONTROL **ALLSTAR**				0	0	0	0	0
UNTREATED CONTROL **BRUNSWICK**				0	0	0	0	0
UNTREATED CONTROL **CABOT**				0	0	0	0	0
UNTREATED CONTROL **CAVENDISH**				0	0	0	0	0
UNTREATED CONTROL **CLANCY**				0	0	0	0	0
UNTREATED CONTROL **DARSELECT**				0	0	0	0	0
UNTREATED CONTROL **EARLIGLOW**				0	0	0	0	0
UNTREATED CONTROL **EROS**				0	0	0	0	0
UNTREATED CONTROL **HONEOYE**				0	0	0	0	0
UNTREATED CONTROL **ITASCA**				0	0	0	0	0
UNTREATED CONTROL **JEWEL STRAW**				0	0	0	0	0
UNTREATED CONTROL **LAMOUR**				0	0	0	0	0
UNTREATED CONTROL **OVATION**				0	0	0	0	0
UNTREATED CONTROL **SENECA**				0	0	0	0	0
SINBAR **A LLSTAR**	1.5	OZ/A	B	0	99	99	99	80

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STRAWBERRIES - TOLERANCE OF FOURTEEN CULTIVARS TO STINGER AND SPARTAN

Trial ID: STRAWCULTOL 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				SENVU	POLAV	SINAR	LEPVI	AMAXX
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19	20	21	22	23
SINBAR **BRUNSWICK**	1.5	OZ/A	B	15	99	99	99	70
SINBAR **CABOT**	1.5	OZ/A	B	99	99	99	99	99
SINBAR **CAVENDISH**	1.5	OZ/A	B	99	99	99	99	99
SINBAR **CLANCY**	1.5	OZ/A	B	99	99	99	99	99
SINBAR **DARSELECT**	1.5	OZ/A	B	50	99	99	50	99
SINBAR **EARLIGLOW**	1.5	OZ/A	B	99	99	99	99	99
SINBAR **EROS**	1.5	OZ/A	B	30	99	99	99	99
SINBAR **HONEOYE**	1.5	OZ/A	B	99	99	99	99	95
SINBAR **ITASCA**	1.5	OZ/A	B	60	99	99	99	99
SINBAR **JEWEL STRAW**	1.5	OZ/A	B	99	99	99	99	90
SINBAR **LAMOUR**	1.5	OZ/A	B	99	99	99	99	65
SINBAR **OVATION**	1.5	OZ/A	B	99	99	99	99	99
SINBAR **SENECA**	1.5	OZ/A	B	99	99	99	99	95
SINBAR **A LLSTAR**	3	OZ/A	B	99	99	99	99	99
SINBAR **BRUNSWICK**	3	OZ/A	B	99	99	99	99	60

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STRAWBERRIES - TOLERANCE OF FOURTEEN CULTIVARS TO STINGER AND SPARTAN

Trial ID: STRAWCULTOL 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				SENVU	POLAV	SINAR	LEPVI	AMAXX
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19	20	21	22	23
SINBAR **CABOT**	3	OZ/A	B	99	99	99	99	99
SINBAR **CAVENDISH**	3	OZ/A	B	99	99	99	99	99
SINBAR **CLANCY**	3	OZ/A	B	99	99	99	99	99
SINBAR **DARSELECT**	3	OZ/A	B	99	99	99	99	99
SINBAR **EARLIGLOW**	3	OZ/A	B	99	99	99	99	70
SINBAR **EROS**	3	OZ/A	B	99	99	99	99	99
SINBAR **HONEOYE**	3	OZ/A	B	99	99	99	99	75
SINBAR **ITASCA**	3	OZ/A	B	70	99	99	99	99
SINBAR **JEWEL STRAW**	3	OZ/A	B	99	99	99	99	99
SINBAR **LAMOUR**	3	OZ/A	B	99	99	99	99	99
SINBAR **OVATION**	3	OZ/A	B	99	99	99	99	99
SINBAR **SENECA**	3	OZ/A	B	99	99	99	99	99
SINBAR **A LLSTAR**	6	OZ/A	B	99	99	99	99	99
SINBAR **BRUNSWICK**	6	OZ/A	B	99	99	99	99	99
SINBAR **CABOT**	6	OZ/A	B	99	99	99	99	99

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STRAWBERRIES - TOLERANCE OF FOURTEEN CULTIVARS TO STINGER AND SPARTAN

Trial ID: STRAWCULTOL 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				SENVU	POLAV	SINAR	LEPVI	AMAXX
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19	20	21	22	23
SINBAR **CAVENDISH**	6	OZ/A	B	99	99	99	99	99
SINBAR CLANCY	6	OZ/A	B	99	99	99	99	99
SINBAR **DARSELECT**	6	OZ/A	B	99	99	99	99	99
SINBAR **EARLIGLOW**	6	OZ/A	B	99	99	99	99	99
SINBAR **EROS**	6	OZ/A	B	99	99	99	99	99
SINBAR **HONEOYE**	6	OZ/A	B	99	99	99	99	99
SINBAR **ITASCA**	6	OZ/A	B	99	99	99	99	99
SINBAR **JEWEL STRAW**	6	OZ/A	B	99	99	99	99	99
SINBAR **LAMOUR**	6	OZ/A	B	99	99	99	99	99
SINBAR **OVATION**	6	OZ/A	B	99	99	99	99	99
SINBAR **SENECA**	6	OZ/A	B	99	99	99	99	99
SPARTAN **A LLSTAR**	4	OZ/A	B	99	99	99	99	99
SPARTAN **BRUNSWICK**	4	OZ/A	B	99	99	99	99	99
SPARTAN **CABOT**	4	OZ/A	B	99	99	99	99	99
SPARTAN **CAVENDISH**	4	OZ/A	B	99	99	99	99	99

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STRAWBERRIES - TOLERANCE OF FOURTEEN CULTIVARS TO STINGER AND SPARTAN

Trial ID: STRAWCULTOL 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				SENVU	POLAV	SINAR	LEPVI	AMAXX
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19	20	21	22	23
SPARTAN **CLANCY**	4	OZ/A	B	99	99	0	99	99
SPARTAN **DARSELECT**	4	OZ/A	B	99	99	70	99	99
SPARTAN **EARLIGLOW**	4	OZ/A	B	99	99	50	99	99
SPARTAN **EROS**	4	OZ/A	B	99	99	99	99	99
SPARTAN **HONEOYE**	4	OZ/A	B	99	99	99	99	99
SPARTAN **ITASCA**	4	OZ/A	B	99	99	99	99	99
SPARTAN **JEWEL STRAW**	4	OZ/A	B	99	99	99	99	99
SPARTAN **LAMOUR**	4	OZ/A	B	99	99	99	99	99
SPARTAN **OVATION**	4	OZ/A	B	99	99	99	99	99
SPARTAN **SENECA**	4	OZ/A	B	99	99	99	99	99
SPARTAN **A LLSTAR**	8	OZ/A	B	99	99	99	99	99
SPARTAN **BRUNSWICK**	8	OZ/A	B	99	99	99	99	99
SPARTAN **CABOT**	8	OZ/A	B	99	99	99	99	99
SPARTAN **CAVENDISH**	8	OZ/A	B	99	99	99	99	99
SPARTAN **CLANCY**	8	OZ/A	B	99	99	99	99	99

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STRAWBERRIES - TOLERANCE OF FOURTEEN CULTIVARS TO STINGER AND SPARTAN

Trial ID: STRAWCULTOL 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				SENVU	POLAV	SINAR	LEPVI	AMAXX
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19	20	21	22	23
SPARTAN **DARSELECT**	8	OZ/A	B	99	99	50	99	99
SPARTAN **EARLIGLOW**	8	OZ/A	B	99	99	99	99	99
SPARTAN **EROS**	8	OZ/A	B	99	99	25	99	99
SPARTAN **HONEOYE**	8	OZ/A	B	99	99	99	99	99
SPARTAN **ITASCA**	8	OZ/A	B	99	99	99	99	99
SPARTAN **JEWEL STRAW**	8	OZ/A	B	99	99	99	99	99
SPARTAN **LAMOUR**	8	OZ/A	B	99	99	99	99	99
SPARTAN **OVATION**	8	OZ/A	B	99	99	99	99	99
SPARTAN **SENECA**	8	OZ/A	B	99	99	99	99	99
LSD (P=.05)				.	.	.	.	.
Standard Deviation				.	.	.	.	.
CV				.	.	.	.	.

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STRAWBERRIES - TOLERANCE OF FOURTEEN CULTIVARS TO STINGER AND SPARTAN

Trial ID: STRAWCULTOL 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				POROL	AMBEL	CAPBP	POLPY	CYPES
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	24	25	26	27	28
UNTREATED CONTROL **ALLSTAR**				0	0	0	0	0
UNTREATED CONTROL **BRUNSWICK**				0	0	0	0	0
UNTREATED CONTROL **CABOT**				0	0	0	0	0
UNTREATED CONTROL **CAVENDISH**				0	0	0	0	0
UNTREATED CONTROL **CLANCY**				0	0	0	0	0
UNTREATED CONTROL **DARSELECT**				0	0	0	0	0
UNTREATED CONTROL **EARLIGLOW**				0	0	0	0	0
UNTREATED CONTROL **EROS**				0	0	0	0	0
UNTREATED CONTROL **HONEOYE**				0	0	0	0	0
UNTREATED CONTROL **ITASCA**				0	0	0	0	0
UNTREATED CONTROL **JEWEL STRAW**				0	0	0	0	0
UNTREATED CONTROL **LAMOUR**				0	0	0	0	0
UNTREATED CONTROL **OVATION**				0	0	0	0	0
UNTREATED CONTROL **SENECA**				0	0	0	0	0
SINBAR **A LLSTAR**	1.5	OZ/A	B	99	99	99	99	99

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STRAWBERRIES - TOLERANCE OF FOURTEEN CULTIVARS TO STINGER AND SPARTAN

Trial ID: STRAWCULTOL 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				POROL	AMBEL	CAPBP	POLPY	CYPES
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	24	25	26	27	28
SINBAR **BRUNSWICK**	1.5	OZ/A	B	99	99	99	99	99
SINBAR **CABOT**	1.5	OZ/A	B	99	99	99	99	99
SINBAR **CAVENDISH**	1.5	OZ/A	B	70	99	99	99	99
SINBAR **CLANCY**	1.5	OZ/A	B	99	99	99	99	99
SINBAR **DARSELECT**	1.5	OZ/A	B	99	99	99	99	25
SINBAR **EARLIGLOW**	1.5	OZ/A	B	75	99	99	99	35
SINBAR **EROS**	1.5	OZ/A	B	99	99	99	99	25
SINBAR **HONEOYE**	1.5	OZ/A	B	95	99	99	99	55
SINBAR **ITASCA**	1.5	OZ/A	B	99	99	99	99	35
SINBAR **JEWEL STRAW**	1.5	OZ/A	B	99	99	99	99	99
SINBAR **LAMOUR**	1.5	OZ/A	B	90	99	99	99	60
SINBAR **OVATION**	1.5	OZ/A	B	99	99	99	99	99
SINBAR **SENECA**	1.5	OZ/A	B	99	99	99	99	99
SINBAR **A LLSTAR**	3	OZ/A	B	99	99	99	99	99
SINBAR **BRUNSWICK**	3	OZ/A	B	99	99	99	99	99

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STRAWBERRIES - TOLERANCE OF FOURTEEN CULTIVARS TO STINGER AND SPARTAN

Trial ID: STRAWCULTOL 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				POROL	AMBEL	CAPBP	POLPY	CYPES
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	24	25	26	27	28
SINBAR **CABOT**	3	OZ/A	B	99	99	99	99	99
SINBAR **CAVENDISH**	3	OZ/A	B	99	99	99	99	99
SINBAR **CLANCY**	3	OZ/A	B	99	99	99	99	65
SINBAR **DARSELECT**	3	OZ/A	B	99	99	99	99	99
SINBAR **EARLIGLOW**	3	OZ/A	B	80	99	99	99	65
SINBAR **EROS**	3	OZ/A	B	99	99	99	99	60
SINBAR **HONEOYE**	3	OZ/A	B	99	99	99	99	55
SINBAR **ITASCA**	3	OZ/A	B	99	99	99	99	70
SINBAR **JEWEL STRAW**	3	OZ/A	B	99	99	99	99	60
SINBAR **LAMOUR**	3	OZ/A	B	99	99	99	99	90
SINBAR **OVATION**	3	OZ/A	B	95	99	99	99	70
SINBAR **SENECA**	3	OZ/A	B	99	99	99	99	99
SINBAR **A LLSTAR**	6	OZ/A	B	99	99	99	99	99
SINBAR **BRUNSWICK**	6	OZ/A	B	99	99	99	99	99
SINBAR **CABOT**	6	OZ/A	B	99	99	99	99	99

The Ohio State University

STRAWBERRIES - TOLERANCE OF FOURTEEN CULTIVARS TO STINGER AND SPARTAN

Trial ID: STRAWCULTOL 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				POROL	AMBEL	CAPBP	POLPY	CYPES
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	24	25	26	27	28
SINBAR **CAVENDISH**	6	OZ/A	B	99	99	85	99	99
SINBAR CLANCY	6	OZ/A	B	99	99	99	99	99
SINBAR **DARSELECT**	6	OZ/A	B	99	99	99	99	99
SINBAR **EARLIGLOW**	6	OZ/A	B	99	99	99	99	40
SINBAR **EROS**	6	OZ/A	B	99	99	99	99	99
SINBAR **HONEOYE**	6	OZ/A	B	99	99	99	99	70
SINBAR **ITASCA**	6	OZ/A	B	99	99	99	99	99
SINBAR **JEWEL STRAW**	6	OZ/A	B	99	99	99	99	99
SINBAR **LAMOUR**	6	OZ/A	B	99	99	99	99	99
SINBAR **OVATION**	6	OZ/A	B	99	99	99	99	65
SINBAR **SENECA**	6	OZ/A	B	99	99	99	99	99
SPARTAN **A LLSTAR**	4	OZ/A	B	99	99	99	99	99
SPARTAN **BRUNSWICK**	4	OZ/A	B	99	99	99	99	99
SPARTAN **CABOT**	4	OZ/A	B	99	99	99	99	99
SPARTAN **CAVENDISH**	4	OZ/A	B	99	99	99	99	99

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STRAWBERRIES - TOLERANCE OF FOURTEEN CULTIVARS TO STINGER AND SPARTAN

Trial ID: STRAWCULTOL 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				POROL	AMBEL	CAPBP	POLPY	CYPES
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	24	25	26	27	28
SPARTAN **CLANCY**	4	OZ/A	B	99	0	99	99	99
SPARTAN **DARSELECT**	4	OZ/A	B	99	60	99	99	99
SPARTAN **EARLIGLOW**	4	OZ/A	B	99	55	99	99	99
SPARTAN **EROS**	4	OZ/A	B	99	99	99	99	99
SPARTAN **HONEOYE**	4	OZ/A	B	99	99	99	99	99
SPARTAN **ITASCA**	4	OZ/A	B	99	99	99	99	99
SPARTAN **JEWEL STRAW**	4	OZ/A	B	99	99	99	99	99
SPARTAN **LAMOUR**	4	OZ/A	B	99	99	99	99	99
SPARTAN **OVATION**	4	OZ/A	B	99	99	99	99	99
SPARTAN **SENECA**	4	OZ/A	B	99	99	99	99	99
SPARTAN **A LLSTAR**	8	OZ/A	B	99	99	99	99	99
SPARTAN **BRUNSWICK**	8	OZ/A	B	99	99	99	99	99
SPARTAN **CABOT**	8	OZ/A	B	99	80	99	99	99
SPARTAN **CAVENDISH**	8	OZ/A	B	99	99	99	99	99
SPARTAN **CLANCY**	8	OZ/A	B	99	99	99	99	99

The Ohio State University

STRAWBERRIES - TOLERANCE OF FOURTEEN CULTIVARS TO STINGER AND SPARTAN

Trial ID: STRAWCULTOL 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				POROL	AMBEL	CAPBP	POLPY	CYPES
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	24	25	26	27	28
SPARTAN **DARSELECT**	8	OZ/A	B	99	99	99	99	99
SPARTAN **EARLIGLOW**	8	OZ/A	B	99	99	99	99	99
SPARTAN **EROS**	8	OZ/A	B	99	99	99	99	99
SPARTAN **HONEOYE**	8	OZ/A	B	99	99	99	99	99
SPARTAN **ITASCA**	8	OZ/A	B	99	99	99	99	99
SPARTAN **JEWEL STRAW**	8	OZ/A	B	99	99	99	99	99
SPARTAN **LAMOUR**	8	OZ/A	B	99	99	99	99	99
SPARTAN **OVATION**	8	OZ/A	B	99	99	99	99	99
SPARTAN **SENECA**	8	OZ/A	B	99	99	99	99	99
LSD (P=.05)				.	.	.	.	.
Standard Deviation				.	.	.	.	.
CV				.	.	.	.	.

The Ohio State University

STRAWBERRIES - WEED CONTROL IN NEWLY PLANTED STRAWBERRY WITH SPARTAN

Trial ID: STRAWBNEWPLW 2006 | Study Dir.: Doug Doohan and T.Koch
Location: Wooster, Ohio | Investigator: Doug Doohan

TRIAL LOCATION

City: Wooster | Trial Status: Final
State/Prov.: Ohio | Trial Reliability: Reliable
Postal Code: 44691 | Initiation Date: 05/12/06
Country: USA

Objective: To evaluate weed control and crop tolerance of newly planted strawberries to Spartan.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	AGRASS	annual grasses (various)	*Panicum spp.and Digitaria spp.*
2	MALNE	common mallow	*Malva neglecta. Wallr.*
3	SENVU	common groundsel	*Senecio vularis L.*
4	TAROF	dandelion	*Taraxacum officinale Weber*

Crop 1: FRAAN STRAWBERRY | Variety: JEWEL
Planting Date: 05/10/06 | Planting Method: MACHINE PLANTED
Rate: 1 PLANT PER 12 IN | Depth: 2 IN
Row Spacing: 38 IN | Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 6 FT | Plot Length, Unit: 20 FT
Site Type: LEVEL FIELD | Reps: 4
Tillage Type: CONVENTIONAL | Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 16 | % OM: 2.0 | Texture: SILT LOAM
% Silt: 70 | pH: 6.0 | Soil Name: WOOSTER SILT LOAM
% Clay: 12 | CEC: 14 | Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A
Application Date:	5/12/2006
Time of Day:	8-9 AM
Application Method:	SPRAY
Application Timing:	PRE
Applic. Placement:	BROADCAST
Air Temp., Unit:	7.6 C
% Relative Humidity:	100
Wind Velocity, Unit:	6.5 MPH
% Cloud Cover:	100

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	FRAAN PRE
Stage Scale:	TRANSPT
Height, Unit:	4 IN

The Ohio State University

STRAWBERRIES - WEED CONTROL IN NEWLY PLANTED STRAWBERRY WITH SPARTAN

Trial ID: STRAWBNEWPLW 2006 Study Dir.: Doug Doohan and T.Koch
Location: Wooster, Ohio Investigator: Doug Doohan

WEED STAGE AT EACH APPLICATION

	A	
Weed 1 Code, Stage:	AGRAS	PRE
Stage Scale:	.	
Density, Unit:	. .	
Weed 2 Code, Stage:	MALNE	PRE
Stage Scale:	.	
Density, Unit:	. .	
Weed 3 Code, Stage:	SENVU	PRE
Stage Scale:	.	
Density, Unit:	. .	
Weed 4 Code, Stage:	TAROF	PRE
Stage Scale:	.	
Density, Unit:	. .	

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	40
Nozzle Type:	FLAT FAN
Nozzle Size:	8002VS
Nozzle Spacing, Unit:	19 IN
Nozzles/Row:	3
Band Width, Unit:	60 IN
Boom Height, Unit:	18 IN
Ground Speed, Unit:	2.5 MPH
Spray Volume, Unit:	25 GPA

The Ohio State University

STRAWBERRIES - WEED CONTROL IN NEWLY PLANTED STRAWBERRY WITH SPARTAN

Trial ID: STRAWBNEWPLW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	BURN	STUNT	LEAF CURL	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				5/19/2006	5/19/2006	5/19/2006	5/19/2006	6/2/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	3 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
UNTREATED CONTROL				0	0	0	0	0
SPARTAN	2	OZ/A	PRE	0	0	0	0	0
SPARTAN	4	OZ/A	PRE	0	0	0	0	0
SPARTAN	8	OZ/A	PRE	0	0	0	0	0
LSD (P=.05)				0	0	0	0	0
Standard Deviation				0	0	0	0	0
CV				0	0	0	0	0

The Ohio State University

STRAWBERRIES - WEED CONTROL IN NEWLY PLANTED STRAWBERRY WITH SPARTAN

Trial ID: STRAWBNEWPLW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					AGRASS	TAROF	SENVU	MALNE	
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	WEED	WEED	WEED	WEED	PLANT
Rating Data Type				STUNT	CONTROL	CONTROL	CONTROL	CONTROL	CHLOROSIS
Rating Unit				%	%	%	%	%	%
Rating Date				6/2/2006	6/2/2006	6/2/2006	6/2/2006	6/2/2006	6/23/2006
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	3 WAT	3 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10	11
UNTREATED CONTROL				0	0	0	0	0	0
SPARTAN	2	OZ/A	PRE	0	0	0	99	0	0
SPARTAN	4	OZ/A	PRE	0	99	99	99	99	0
SPARTAN	8	OZ/A	PRE	0	99	99	99	99	0
LSD (P=.05)				0	0	0	0	0	0
Standard Deviation				0	0	0	0	0	0
CV				0	0	0	0	0	0

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STRAWBERRIES - WEED CONTROL IN NEWLY PLANTED STRAWBERRY WITH SPARTAN

Trial ID: STRAWBNEWPLW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					AGRASS	TAROF	SENVU	MALNE
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	WEED	WEED	WEED	WEED
Rating Data Type				STUNT	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/23/2006	6/23/2006	6/23/2006	6/23/2006	6/23/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	12	13	14	15	16
UNTREATED CONTROL				0	0	0	0	0
SPARTAN	2	OZ/A	PRE	0	99	99	99	99
SPARTAN	4	OZ/A	PRE	0	99	99	99	99
SPARTAN	8	OZ/A	PRE	0	99	99	99	99
LSD (P=.05)				0	0	0	0	0
Standard Deviation				0	0	0	0	0
CV				0	0	0	0	0

The Ohio State University

STRAWBERRIES - WEED CONTROL IN OVER-WINTERED STRAWBERRY WITH SPARTAN

Trial ID: STRAWOVERWW 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

TRIAL LOCATION

City: Wooster Trial Status: Final
State/Prov.: Ohio Trial Reliability: Reliable
Postal Code: 44691 Initiation Date: 04/06/06
Country: USA

Objective: To evaluate crop tolerance and weed control on overw interd strawberries using Sinbar applied PRE.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	TAROF	dandelion	*Taraxacum officinale Weber*
2	CIRAR	Canada thistle	*Cirsium arvense (L.) Scop.*

Crop 1: FRAAN STRAWBERRY Variety: JEWEL
Planting Date: 05/10/01 Planting Method: MACHINE PLANTED
Rate: 1 PER 12 IN Depth: 2 IN
Row Spacing: 38 IN Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 6 FT Plot Length, Unit: 20 FT
Site Type: LEVEL FIELD Reps: 4
Tillage Type: CONVENTIONA L Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 16 % OM: 2.0 Texture: SILT LOAM
% Silt: 70 pH: 6.0 Soil Name: WOOSTER SILT LOAM
% Clay: 12 CEC: 14 Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A
Application Date:	4/6/2006
Time of Day:	10-11 AM
Application Method:	SPRAY
Application Timing:	PRE
Applic. Placement:	BROADCAST
Air Temp., Unit:	45.7 F
% Relative Humidity:	60
Wind Velocity, Unit:	1.7 MPH
% Cloud Cover:	85

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	FRAAN PRE
Stage Scale:	DORMANT
Height, Unit:	2 IN

The Ohio State University

STRAWBERRIES - WEED CONTROL IN OVER-WINTERED STRAWBERRY WITH SPARTAN

Trial ID: STRAWOVERWW 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	TAROF PRE
Stage Scale:	.
Density, Unit:	. .
Weed 2 Code, Stage:	CIRAR PRE
Stage Scale:	.
Density, Unit:	. .

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	40
Nozzle Type:	FLAT FAN
Nozzle Size:	8002VS
Nozzle Spacing, Unit:	19 IN
Nozzles/Row:	4
Band Width, Unit:	60 IN
Boom Height, Unit:	18 IN
Ground Speed, Unit:	2.5 MPH
Spray Volume, Unit:	25 GPA

Trial Comments: In the Trt-Eval Interval, **" WAT"** refers to weeks after treatmant.

The Ohio State University

STRAWBERRIES - WEED CONTROL IN OVER-WINTERED STRAWBERRY WITH SPARTAN

Trial ID: STRAWOVERWW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code						CIRAR	TAROF	TAROF	CIRAR
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	WEED	WEED	WEED	WEED
Rating Data Type				INJURY	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				4/13/2006	4/20/2006	4/20/2006	4/20/2006	4/20/2006	4/20/2006
Trt-Eval Interval				1 WAT	2 WAT	2 WAT	2 WAT	2 WAT	2 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
UNTREATED CONTROL				0	0	0	0	0	0
SPARTAN	2	OZ/A	PRE	0	0	0	0	0	0
SPARTAN	4	OZ/A	PRE	0	0	0	0	12.5	0
SPARTAN	8	OZ/A	PRE	0	0	0	0	25	0
LSD (P=.05)				0	0	0	0	27	0
Standard Deviation				0	0	0	0	17.18	0
CV				0	0	0	0	183.25	0

The Ohio State University

STRAWBERRIES - WEED CONTROL IN OVER-WINTERED STRAWBERRY WITH SPARTAN

Trial ID: STRAWOVERWW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					CIRAR	TAROF		CIRAR	TAROF
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	WEED	WEED	PLANT	WEED	WEED
Rating Data Type				INJURY	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				4/27/2006	4/27/2006	4/27/2006	5/12/2006	5/12/2006	5/12/2006
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	5 WAT	5 WAT	5 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
UNTREATED CONTROL				0	0	0	0	0	0
SPARTAN	2	OZ/A	PRE	0	12.5	37.3	0	23.8	24.8
SPARTAN	4	OZ/A	PRE	0	25	49.5	0	46.3	24.8
SPARTAN	8	OZ/A	PRE	0	37.3	59.8	0	36.3	24.8
LSD (P=.05)				0	40	63	0	65	66
Standard Deviation				0	24.81	39.52	0	40.4	41.25
CV				0	132.74	107.91	0	152.09	222.22

The Ohio State University

SWEET CORN - CROP TOLERANCE TO PERMIT AND AE 0172747

Trial ID: SC CTPERAE0172747	Study Dir.: Doug Doohan and T.Koch
Location: Wooster, Ohio	Investigator: Doug Doohan

TRIAL LOCATION

City: Wooster	Trial Status: Final
State/Prov.: Ohio	Trial Reliability: Reliable
Postal Code: 44691	Initiation Date: 05/08/06
Country: USA	Planned Completion Date: 10/30/06

Objective: To evaluate Permit and AE 0172747 for crop tolerance on six sweet corn hybrids.

Crop 1: ZEAMS	SWEET CORN	Variety: 6 VARIETIES
Planting Date: 05/30/06		Planting Method: CONVENTIONAL
Rate: 20 K/A		Depth: 1.5 IN
Row Spacing: 30 IN		Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 30 FT	Plot Length, Unit: 25 FT
Site Type: LEVEL FIELD	Reps: 4
Tillage Type: CHISEL- PLOW	Study Design: SPLIT-PLOT

SOIL DESCRIPTION

% Sand: 15	% OM: 3.0	Texture: SILT LOAM
% Silt: 67	pH: 6.3	Soil Name: WOOSTER SILT LOAM
% Clay: 15	CEC: 8.5	Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A	B
Application Date:	6/6/2006	7/6/2006
Time of Day:	7 AM	5-7 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V4-V5
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	52.4 F	72 F
% Relative Humidity:	98.3	46
Wind Velocity, Unit:	2 MPH	3 MPH
% Cloud Cover:	50	0

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMS PRE	ZEAMS POST
Stage Scale:	.	V4-V5
Height, Unit:	0. .	12 IN

The Ohio State University

SWEET CORN - CROP TOLERANCE TO PERMIT AND AE 0172747

Trial ID: SC CTPERAE0172747 Study Dir.: Doug Doohan and T.Koch
Location: Wooster, Ohio Investigator: Doug Doohan

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	TRACTOR	TRACTOR
Operating Pressure:	20 PSI	35 PSI
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8002VS	8002VS
Nozzle Spacing, Unit:	18 IN	12 IN
Nozzles/Row:	10	10
Band Width, Unit:	15 FT	10 FT
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Spray Volume, Unit:	28 GPA	25 GPA

Trial Comments

The sweet corn varieties selected were:

Variety	Color	Type	Maturity	Source	Lot #	Use	harvest date
Optimum	BC	SH2	73	Rispens Seeds, Inc.	75444LF	fresh market	8/14
Argent	W	SE	83	Seiger Seeds, Inc.	12@1LBPP	fresh market	8/23
Gateway	BC	SEQ	77	Seiger Seeds, Inc.	N/A	fresh market	8/17
Obsession	BC	SH2	79	Rispens Seeds, Inc.	1188362MR	fresh market	8/19
Passion	Y	SH2	75	Rispens Seeds, Inc.	1196223MR	fresh market	8/21
Avalon	W	SE	83	Seiger Seeds, Inc.	01@1483MBAG	fresh market	8/22

Trial Comments:

In the Trt-Eval Interval, **" WAT"** refers to weeks after treatmant.
We had an unusual amount of heavy rainfall this spring which delayed plot spraying.
Guard row variety was " GSS 0966 ". Corn was not thinned this year. Each variety was planted in a single 30' row per plot, alternated with a guard.
Yield for each variety was taken on mature, primary ears, based on the average maturity date for that variety. Marketable ears had consistant ear fill . Culls were small, deformed, or had spotty ear fill.
This trial was intended for crop injury, not weed control.

The Ohio State University

SWEET CORN - CROP TOLERANCE TO PERMIT AND
AE 0172747

Trial ID: SC CTPERAE0172747
Study Dir.: Doug Doohan and T. Koch
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				BURN	CHLOROSIS	STUNT	TWIST	BURN
Rating Unit				%	%	%	%	%
Rating Date				7/13/2006	7/13/2006	7/13/2006	7/13/2006	7/19/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	2 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
UNTREATED CONTROL **ARGENT**				0	0	0	0	0
UNTREATED CONTROL **AVALON**				0	0	0	0	0
UNTREATED CONTROL **GATEWAY**				0	0	0	0	0
UNTREATED CONTROL **OBSESSION**				0	0	0	0	0
UNTREATED CONTROL **OPTIMUM**				0	0	0	0	0
UNTREATED CONTROL **PASSION**				0	0	0	0	0
PERMIT+	0.685	OZ/A	POST	0	11	8	0	0
NIS	0.25	QT/A	POST					
ARGENT								
PERMIT+	0.685	OZ/A	POST	0	11	8	0	0
NIS	0.25	QT/A	POST					
AVALON								
PERMIT+	0.685	OZ/A	POST	0	8	8	0	0
NIS	0.25	QT/A	POST					
GATEWAY								
PERMIT+	0.685	OZ/A	POST	0	10	6	0	0
NIS	0.25	QT/A	POST					
OBSESSION								
PERMIT+	0.685	OZ/A	POST	0	4	9	0	0
NIS	0.25	QT/A	POST					
OPTIMUM								
PERMIT+	0.685	OZ/A	POST	0	11	13	0	0
NIS	0.25	QT/A	POST					
PASSION								
DUAL II MAGNUM+	1	PT/A	POST	0	0	0	0	0
ATRAZINE	1	LB/A	POST					
ARGENT								

The Ohio State University

SWEET CORN - CROP TOLERANCE TO PERMIT AND
AE 0172747

Trial ID: SC CTPERAE0172747
Study Dir.: Doug Doohan and T. Koch
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				BURN	CHLOROSIS	STUNT	TWIST	BURN
Rating Unit				%	%	%	%	%
Rating Date				7/13/2006	7/13/2006	7/13/2006	7/13/2006	7/19/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	2 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
DUAL II MAGNUM+	1	PT/A	POST	0	0	0	0	0
ATRAZINE	1	LB/A	POST					
AVALON								
DUAL II MAGNUM+	1	PT/A	POST	0	0	0	0	0
ATRAZINE	1	LB/A	POST					
GATEWAY								
DUAL II MAGNUM+	1	PT/A	POST	0	0	0	0	0
ATRAZINE	1	LB/A	POST					
OBSESSION								
DUAL II MAGNUM+	1	PT/A	POST	0	0	0	0	0
ATRAZINE	1	LB/A	POST					
OPTIMUM								
DUAL II MAGNUM+	1	PT/A	POST	0	0	0	0	0
ATRAZINE	1	LB/A	POST					
PASSION								
AE0172747 SC52 A1+	3	OZ/A	POST	0	0	4	0	0
COC+	2.34	L/HA	POST					
UAN 28%	1.5	QT/A	POST					
ARGENT								
AE0172747 SC52 A1+	3	OZ/A	POST	0	0	0	0	0
COC+	2.34	L/HA	POST					
UAN 28%	1.5	QT/A	POST					
AVALON								
AE0172747 SC52 A1+	3	OZ/A	POST	0	0	0	0	0
COC+	2.34	L/HA	POST					
UAN 28%	1.5	QT/A	POST					
GATEWAY								
AE0172747 SC52 A1+	3	OZ/A	POST	0	0	0	0	0
COC+	2.34	L/HA	POST					
UAN 28%	1.5	QT/A	POST					
OBSESSION								
AE0172747 SC52 A1+	3	OZ/A	POST	0	0	0	0	0
COC+	2.34	L/HA	POST					
UAN 28%	1.5	QT/A	POST					
OPTIMUM								

The Ohio State University

SWEET CORN - CROP TOLERANCE TO PERMIT AND
AE 0172747

Trial ID: SC CTPERAE0172747
Study Dir.: Doug Doohan and T. Koch
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				BURN	CHLOROSIS	STUNT	TWIST	BURN
Rating Unit				%	%	%	%	%
Rating Date				7/13/2006	7/13/2006	7/13/2006	7/13/2006	7/19/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	2 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
AE0172747 SC52 A1+	3	OZ/A	POST	0	0	0	0	0
COC+	2.34	L/HA	POST					
UAN 28%	1.5	QT/A	POST					
PASSION								
AE0172747 SC52 A1+	3	OZ/A	POST	0	0	0	0	0
ATRAZINE	1	PT/A	POST					
COC+	2.34	L/HA	POST					
UAN 28%	3	PT/A	POST					
ARGENT								
AE0172747 SC52 A1+	3	OZ/A	POST	0	0	0	0	0
ATRAZINE	1	PT/A	POST					
COC+	2.34	L/HA	POST					
UAN 28%	3	PT/A	POST					
AVALON								
AE0172747 SC52 A1+	3	OZ/A	POST	0	0	5	0	0
ATRAZINE	1	PT/A	POST					
COC+	2.34	L/HA	POST					
UAN 28%	3	PT/A	POST					
GATEWAY								
AE0172747 SC52 A1+	3	OZ/A	POST	0	0	0	0	0
ATRAZINE	1	PT/A	POST					
COC+	2.34	L/HA	POST					
UAN 28%	3	PT/A	POST					
OBSESSION								
AE0172747 SC52 A1+	3	OZ/A	POST	0	0	0	0	0
ATRAZINE	1	PT/A	POST					
COC+	2.34	L/HA	POST					
UAN 28%	3	PT/A	POST					
OPTIMUM								
AE0172747 SC52 A1+	3	OZ/A	POST	0	0	0	0	0
ATRAZINE	1	PT/A	POST					
COC+	2.34	L/HA	POST					
UAN 28%	3	PT/A	POST					
PASSION								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	0	0	0
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
ARGENT								

The Ohio State University

SWEET CORN - CROP TOLERANCE TO PERMIT AND
AE 0172747

Trial ID: SC CTPERAE0172747
Study Dir.: Doug Doohan and T. Koch
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				BURN	CHLOROSIS	STUNT	TWIST	BURN
Rating Unit				%	%	%	%	%
Rating Date				7/13/2006	7/13/2006	7/13/2006	7/13/2006	7/19/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	2 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	0	0	0
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
AVALON								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	0	0	0
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
GATEWAY								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	0	0	0
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
OBSESSION								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	3	0	0
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
OPTIMUM								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	0	0	0
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
PASSION								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	0	0	0
ATRAZINE	1	PT/A	POST 2X					
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
ARGENT								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	0	0	0
ATRAZINE	1	PT/A	POST 2X					
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
AVALON								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	0	0	0
ATRAZINE	1	PT/A	POST 2X					
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
GATEWAY								

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SWEET CORN - CROP TOLERANCE TO PERMIT AND
AE 0172747

Trial ID: SC CTPERAE0172747
Study Dir.: Doug Doohan and T. Koch
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				BURN	CHLOROSIS	STUNT	TWIST	BURN
Rating Unit				%	%	%	%	%
Rating Date				7/13/2006	7/13/2006	7/13/2006	7/13/2006	7/19/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	2 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	0	0	0
ATRAZINE	1	PT/A	POST 2X					
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
OBSESSION								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	0	0	0
ATRAZINE	1	PT/A	POST 2X					
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
OPTIMUM								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	0	0	0
ATRAZINE	1	PT/A	POST 2X					
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
PASSION								
LSD (P=.05)				0	3	5	0	0
Standard Deviation				0	1.8	3.5	0	0
CV				0	136.89	243.22	0	0

The Ohio State University

SWEET CORN - CROP TOLERANCE TO PERMIT AND
AE 0172747

Trial ID: SC CTPERAE0172747
Study Dir.: Doug Doohan and T. Koch
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	TWIST	BURN	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				7/19/2006	7/19/2006	7/19/2006	8/3/2006	8/3/2006
Trt-Eval Interval				2 WAT	2 WAT	2 WAT	4 WAT	4 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
UNTREATED CONTROL **ARGENT**				0	0	0	0	0
UNTREATED CONTROL **AVALON**				0	0	0	0	0
UNTREATED CONTROL **GATEWAY**				0	0	0	0	0
UNTREATED CONTROL **OBSESSION**				0	0	0	0	0
UNTREATED CONTROL **OPTIMUM**				0	0	0	0	0
UNTREATED CONTROL **PASSION**				0	0	0	0	0
PERMIT+	0.685	OZ/A	POST	0	8	0	0	0
NIS	0.25	QT/A	POST					
ARGENT								
PERMIT+	0.685	OZ/A	POST	1	8	0	0	0
NIS	0.25	QT/A	POST					
AVALON								
PERMIT+	0.685	OZ/A	POST	3	9	0	0	0
NIS	0.25	QT/A	POST					
GATEWAY								
PERMIT+	0.685	OZ/A	POST	0	3	0	0	0
NIS	0.25	QT/A	POST					
OBSESSION								
PERMIT+	0.685	OZ/A	POST	0	4	0	0	0
NIS	0.25	QT/A	POST					
OPTIMUM								
PERMIT+	0.685	OZ/A	POST	0	5	0	0	0
NIS	0.25	QT/A	POST					
PASSION								
DUAL II MAGNUM+	1	PT/A	POST	0	0	0	0	0
ATRAZINE	1	LB/A	POST					
ARGENT								

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SWEET CORN - CROP TOLERANCE TO PERMIT AND
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Trial ID: SC CTPERAE0172747
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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	TWIST	BURN	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				7/19/2006	7/19/2006	7/19/2006	8/3/2006	8/3/2006
Trt-Eval Interval				2 WAT	2 WAT	2 WAT	4 WAT	4 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
DUAL II MAGNUM+	1	PT/A	POST	0	0	0	0	0
ATRAZINE	1	LB/A	POST					
AVALON								
DUAL II MAGNUM+	1	PT/A	POST	0	0	0	0	0
ATRAZINE	1	LB/A	POST					
GATEWAY								
DUAL II MAGNUM+	1	PT/A	POST	0	0	0	0	0
ATRAZINE	1	LB/A	POST					
OBSESSION								
DUAL II MAGNUM+	1	PT/A	POST	0	0	0	0	0
ATRAZINE	1	LB/A	POST					
OPTIMUM								
DUAL II MAGNUM+	1	PT/A	POST	0	0	0	0	0
ATRAZINE	1	LB/A	POST					
PASSION								
AE0172747 SC52 A1+	3	OZ/A	POST	0	5	0	0	0
COC+	2.34	L/HA	POST					
UAN 28%	1.5	QT/A	POST					
ARGENT								
AE0172747 SC52 A1+	3	OZ/A	POST	0	0	0	0	0
COC+	2.34	L/HA	POST					
UAN 28%	1.5	QT/A	POST					
AVALON								
AE0172747 SC52 A1+	3	OZ/A	POST	0	5	0	0	0
COC+	2.34	L/HA	POST					
UAN 28%	1.5	QT/A	POST					
GATEWAY								
AE0172747 SC52 A1+	3	OZ/A	POST	0	3	0	0	0
COC+	2.34	L/HA	POST					
UAN 28%	1.5	QT/A	POST					
OBSESSION								
AE0172747 SC52 A1+	3	OZ/A	POST	0	6	0	0	0
COC+	2.34	L/HA	POST					
UAN 28%	1.5	QT/A	POST					
OPTIMUM								

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SWEET CORN - CROP TOLERANCE TO PERMIT AND
AE 0172747

Trial ID: SC CTPERAE0172747
Study Dir.: Doug Doohan and T. Koch
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	TWIST	BURN	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				7/19/2006	7/19/2006	7/19/2006	8/3/2006	8/3/2006
Trt-Eval Interval				2 WAT	2 WAT	2 WAT	4 WAT	4 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
AE0172747 SC52 A1+	3	OZ/A	POST	0	0	0	0	0
COC+	2.34	L/HA	POST					
UAN 28%	1.5	QT/A	POST					
PASSION								
AE0172747 SC52 A1+	3	OZ/A	POST	0	0	0	0	0
ATRAZINE	1	PT/A	POST					
COC+	2.34	L/HA	POST					
UAN 28%	3	PT/A	POST					
ARGENT								
AE0172747 SC52 A1+	3	OZ/A	POST	0	4	0	0	0
ATRAZINE	1	PT/A	POST					
COC+	2.34	L/HA	POST					
UAN 28%	3	PT/A	POST					
AVALON								
AE0172747 SC52 A1+	3	OZ/A	POST	0	3	0	0	0
ATRAZINE	1	PT/A	POST					
COC+	2.34	L/HA	POST					
UAN 28%	3	PT/A	POST					
GATEWAY								
AE0172747 SC52 A1+	3	OZ/A	POST	0	0	0	0	0
ATRAZINE	1	PT/A	POST					
COC+	2.34	L/HA	POST					
UAN 28%	3	PT/A	POST					
OBSESSION								
AE0172747 SC52 A1+	3	OZ/A	POST	0	3	0	0	0
ATRAZINE	1	PT/A	POST					
COC+	2.34	L/HA	POST					
UAN 28%	3	PT/A	POST					
OPTIMUM								
AE0172747 SC52 A1+	3	OZ/A	POST	0	3	0	0	0
ATRAZINE	1	PT/A	POST					
COC+	2.34	L/HA	POST					
UAN 28%	3	PT/A	POST					
PASSION								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	0	0	0
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
ARGENT								

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SWEET CORN - CROP TOLERANCE TO PERMIT AND
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Trial ID: SC CTPERAE0172747
Study Dir.: Doug Doohan and T. Koch
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	TWIST	BURN	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				7/19/2006	7/19/2006	7/19/2006	8/3/2006	8/3/2006
Trt-Eval Interval				2 WAT	2 WAT	2 WAT	4 WAT	4 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	0	0	0
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
AVALON								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	0	0	0
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
GATEWAY								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	0	0	0
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
OBSESSION								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	4	0	0	0
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
OPTIMUM								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	0	0	0
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
PASSION								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	0	0	0
ATRAZINE	1	PT/A	POST 2X					
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
ARGENT								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	0	0	0
ATRAZINE	1	PT/A	POST 2X					
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
AVALON								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	0	0	0
ATRAZINE	1	PT/A	POST 2X					
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
GATEWAY								

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SWEET CORN - CROP TOLERANCE TO PERMIT AND
AE 0172747

Trial ID: SC CTPERAE0172747
Study Dir.: Doug Doohan and T. Koch
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	TWIST	BURN	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				7/19/2006	7/19/2006	7/19/2006	8/3/2006	8/3/2006
Trt-Eval Interval				2 WAT	2 WAT	2 WAT	4 WAT	4 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	0	0	0
ATRAZINE	1	PT/A	POST 2X					
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
OBSESSION								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	0	0	0
ATRAZINE	1	PT/A	POST 2X					
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
OPTIMUM								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	0	0	0
ATRAZINE	1	PT/A	POST 2X					
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
PASSION								
LSD (P=.05)				1	5	0	0	0
Standard Deviation				0.9	3.4	0	0	0
CV				956.62	207.62	0	0	0

The Ohio State University

SWEET CORN - CROP TOLERANCE TO PERMIT AND
AE 0172747

Trial ID: SC CTPERAE0172747
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	EAR	EAR
Rating Data Type				STUNT	TWIST	STAND CT	TTL MKTB	TTL MKTB
Rating Unit				%	%	PER 30'	# /PLOT	LBS/PLOT
Rating Date				8/3/2006	8/3/2006	8/3/2006	8/22/2006	8/22/2006
Trt-Eval Interval				4 WAT	4 WAT	4 WAT	HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
UNTREATED CONTROL **ARGENT**				0	0	43	24	16.42
UNTREATED CONTROL **AVALON**				0	0	41	22	14.67
UNTREATED CONTROL **GATEWAY**				0	0	41	23	14.58
UNTREATED CONTROL **OBSESSION**				0	0	43	39	24
UNTREATED CONTROL **OPTIMUM**				0	0	38	32	17.83
UNTREATED CONTROL **PASSION**				0	0	43	26	18.65
PERMIT+	0.685	OZ/A	POST	0	0	40	24	16.23
NIS **ARGENT**	0.25	QT/A	POST					
PERMIT+	0.685	OZ/A	POST	0	0	42	15	10.82
NIS **AVALON**	0.25	QT/A	POST					
PERMIT+	0.685	OZ/A	POST	0	0	39	21	12.87
NIS **GATEWAY**	0.25	QT/A	POST					
PERMIT+	0.685	OZ/A	POST	0	0	43	32	20
NIS **OBSESSION**	0.25	QT/A	POST					
PERMIT+	0.685	OZ/A	POST	0	0	37	34	18.65
NIS **OPTIMUM**	0.25	QT/A	POST					
PERMIT+	0.685	OZ/A	POST	0	0	42	27	18.63
NIS **PASSION**	0.25	QT/A	POST					
DUAL II MAGNUM+	1	PT/A	POST	0	0	39	20	14.95
ATRAZINE **ARGENT**	1	LB/A	POST					

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Trial ID: SC CTPERAE0172747
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Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	EAR	EAR
Rating Data Type				STUNT	TWIST	STAND CT	TTL MKTB	TTL MKTB
Rating Unit				%	%	PER 30'	# /PLOT	LBS/PLOT
Rating Date				8/3/2006	8/3/2006	8/3/2006	8/22/2006	8/22/2006
Trt-Eval Interval				4 WAT	4 WAT	4 WAT	HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
DUAL II MAGNUM+	1	PT/A	POST	0	0	41	23	15.65
ATRAZINE	1	LB/A	POST					
AVALON								
DUAL II MAGNUM+	1	PT/A	POST	5	0	35	22	13.3
ATRAZINE	1	LB/A	POST					
GATEWAY								
DUAL II MAGNUM+	1	PT/A	POST	0	0	42	34	21.55
ATRAZINE	1	LB/A	POST					
OBSESSION								
DUAL II MAGNUM+	1	PT/A	POST	0	0	38	29	15.9
ATRAZINE	1	LB/A	POST					
OPTIMUM								
DUAL II MAGNUM+	1	PT/A	POST	0	0	41	21	15
ATRAZINE	1	LB/A	POST					
PASSION								
AE0172747 SC52 A1+	3	OZ/A	POST	0	0	38	24	16.3
COC+	2.34	L/HA	POST					
UAN 28%	1.5	QT/A	POST					
ARGENT								
AE0172747 SC52 A1+	3	OZ/A	POST	0	0	42	29	16.6
COC+	2.34	L/HA	POST					
UAN 28%	1.5	QT/A	POST					
AVALON								
AE0172747 SC52 A1+	3	OZ/A	POST	0	0	40	22	12.3
COC+	2.34	L/HA	POST					
UAN 28%	1.5	QT/A	POST					
GATEWAY								
AE0172747 SC52 A1+	3	OZ/A	POST	0	0	41	37	22.05
COC+	2.34	L/HA	POST					
UAN 28%	1.5	QT/A	POST					
OBSESSION								
AE0172747 SC52 A1+	3	OZ/A	POST	9	0	38	25	13.32
COC+	2.34	L/HA	POST					
UAN 28%	1.5	QT/A	POST					
OPTIMUM								

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Trial ID: SC CTPERAE0172747
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Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	EAR	EAR
Rating Data Type				STUNT	TWIST	STAND CT	TTL MKTB	TTL MKTB
Rating Unit				%	%	PER 30'	# /PLOT	LBS/PLOT
Rating Date				8/3/2006	8/3/2006	8/3/2006	8/22/2006	8/22/2006
Trt-Eval Interval				4 WAT	4 WAT	4 WAT	HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
AE0172747 SC52 A1+	3	OZ/A	POST	0	0	45	28	18.83
COC+	2.34	L/HA	POST					
UAN 28%	1.5	QT/A	POST					
PASSION								
AE0172747 SC52 A1+	3	OZ/A	POST	0	0	44	23	14.7
ATRAZINE	1	PT/A	POST					
COC+	2.34	L/HA	POST					
UAN 28%	3	PT/A	POST					
ARGENT								
AE0172747 SC52 A1+	3	OZ/A	POST	0	0	40	23	14.4
ATRAZINE	1	PT/A	POST					
COC+	2.34	L/HA	POST					
UAN 28%	3	PT/A	POST					
AVALON								
AE0172747 SC52 A1+	3	OZ/A	POST	4	0	40	18	11.6
ATRAZINE	1	PT/A	POST					
COC+	2.34	L/HA	POST					
UAN 28%	3	PT/A	POST					
GATEWAY								
AE0172747 SC52 A1+	3	OZ/A	POST	0	0	40.3	33	22.22
ATRAZINE	1	PT/A	POST					
COC+	2.34	L/HA	POST					
UAN 28%	3	PT/A	POST					
OBSESSION								
AE0172747 SC52 A1+	3	OZ/A	POST	3	0	38.3	29	14.88
ATRAZINE	1	PT/A	POST					
COC+	2.34	L/HA	POST					
UAN 28%	3	PT/A	POST					
OPTIMUM								
AE0172747 SC52 A1+	3	OZ/A	POST	0	0	39.3	20	14.55
ATRAZINE	1	PT/A	POST					
COC+	2.34	L/HA	POST					
UAN 28%	3	PT/A	POST					
PASSION								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	43.5	25	17.2
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
ARGENT								

The Ohio State University

SWEET CORN - CROP TOLERANCE TO PERMIT AND
AE 0172747

Trial ID: SC CTPERAE0172747
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	EAR	EAR
Rating Data Type				STUNT	TWIST	STAND CT	TTL MKTB	TTL MKTB
Rating Unit				%	%	PER 30'	# /PLOT	LBS/PLOT
Rating Date				8/3/2006	8/3/2006	8/3/2006	8/22/2006	8/22/2006
Trt-Eval Interval				4 WAT	4 WAT	4 WAT	HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	42.3	26	15.35
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
AVALON								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	38.8	18	11.02
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
GATEWAY								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	43.8	36	22.17
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
OBSESSION								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	36.8	29	15.45
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
OPTIMUM								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	40	23	16.25
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
PASSION								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	45	23	16.3
ATRAZINE	1	PT/A	POST 2X					
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
ARGENT								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	40	20	13.55
ATRAZINE	1	PT/A	POST 2X					
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
AVALON								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	39	25	15.65
ATRAZINE	1	PT/A	POST 2X					
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
GATEWAY								

The Ohio State University

SWEET CORN - CROP TOLERANCE TO PERMIT AND
AE 0172747

Trial ID: SC CTPERAE0172747
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	EAR	EAR
Rating Data Type				STUNT	TWIST	STAND CT	TTL MKTB	TTL MKTB
Rating Unit				%	%	PER 30'	# /PLOT	LBS/PLOT
Rating Date				8/3/2006	8/3/2006	8/3/2006	8/22/2006	8/22/2006
Trt-Eval Interval				4 WAT	4 WAT	4 WAT	HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	44	40	23.9
ATRAZINE	1	PT/A	POST 2X					
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
OBSESSION								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	37	31	16.98
ATRAZINE	1	PT/A	POST 2X					
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
OPTIMUM								
AE0172747 SC52 A1+	3	OZ/A	POST 2X	0	0	45	27	18.7
ATRAZINE	1	PT/A	POST 2X					
COC+	2.34	L/HA	POST 2X					
UAN 28%	1.5	QT/A	POST 2X					
PASSION								
LSD (P=.05)				4	0	6	9	5
Standard Deviation				2.6	0	4.12	6.2	3.707
CV				542.1	0	10.13	23.69	22.43

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SWEET CORN - WEED CONTROL IN SWEET CORN WITH IMPACT

Trial ID: SWCORNWDCONW 2006 | Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio | Investigator: Doug Doohan

TRIAL LOCATION

City: Wooster | Trial Status: Final
State/Prov.: Ohio | Trial Reliability: Reliable
Postal Code: 44691 | Initiation Date: 05/30/06
Country: USA | Planned Completion Date: 10/30/06

Objective: To evaluate weed control and crop tolerance with " Argent" sweet corn.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	CHEAL	common lambsquarter	*Chenopodium album L.*
2	AMAXX	pigweed spp.	*Amaranthus spp.*
3	POROL	common purslane	*Portulaca oleracea L.*
4	PANCA	witchgrass	*Panicum capillare L.*
5	CAPBP	shepherd's purse	*Capsella bursa-pastoris (L.) Medicus*

Crop 1: ZEAMS SWEET CORN | Variety: ARGENT
Planting Date: 05/30/06 | Planting Method: CONVENTIONAL
Rate: 20 K/ACRE | Depth: 1.5 IN
Row Spacing: 30 IN | Seed Bed: CONVENTIONAL
Emergence Date: 06/06/06

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: 15	% OM: 3.0	Texture: SILT LOAM
% Silt: 67	pH: 6.3	Soil Name: WOOSTER SILT LOAM
% Clay: 15	CEC: 8.5	Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A	B
Application Date:	5/30/2006	7/5/2006
Time of Day:	2-3 PM	11AM-12PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	80 F	69 F
% Relative Humidity:	46	68
Wind Velocity, Unit:	2.5 MPH	3 MPH
% Cloud Cover:	50	80

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMS PRE	ZEAMS POST
Stage Scale:	.	V3-V5
Height, Unit:	0. .	10 IN

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SWEET CORN - WEED CONTROL IN SWEET CORN WITH IMPACT

Trial ID: SWCORNWDCONW 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

WEED STAGE AT EACH APPLICATION

	A		B	
Weed 1 Code, Stage:	CHEAL	PRE	CHEAL	POST
Stage Scale:	.		6-12 IN	
Density, Unit:	. .		LOW	PLOT
Weed 2 Code, Stage:	AMAXX	PRE	AMAXX	POST
Stage Scale:	.		4-12 IN	
Density, Unit:	. .		HIGH	PLOT
Weed 3 Code, Stage:	POROL	PRE	POROL	POST
Stage Scale:	.		3-12 IN DIAMETER	
Density, Unit:	. .		HIGH	PLOT
Weed 4 Code, Stage:	PANCA	PRE	PANCA	POST
Stage Scale:	.		3-6 IN	
Density, Unit:	. .		LOW	PLOT
Weed 5 Code, Stage:	CAPBP	PRE	CAPBP	POST
Stage Scale:	.		3-6 IN	
Density, Unit:	. .		MEDIUM	PLOT

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	35	35
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
Boom Height, Unit:	15 IN	15 IN
Ground Speed, Unit:	2.5 MPH	2.5 MPH
Spray Volume, Unit:	25 GPA	25 GPA

Trial Comments:

In the Trt-Eval Interval, " **WAT**" refers to weeks after treatmant.

The sweet corn variety used is listed below:

Variety	Color	Type	Mat.	Source	Lot #	Use	harvest date
Argent	W	SE	83	Seiger Seeds, Inc.	12@1LBPP	fresh market	8/23

Plots were 4 rows wide by 30' long; the center two rows were used for yield data.

Yield for each variety was taken on mature, primary ears, based on the average maturity date for that variety. Marketable ears had consistant ear fill . Culls were small, deformed, or had spotty ear fill.

This trial was intended for crop injury, not weed control.

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SWEET CORN - WEED CONTROL IN SWEET CORN WITH IMPACT

Trial ID: SWCORNWDCONW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code							PANCA	CHEAL
Crop Code				ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Part Rated				PLANT	PLANT	PLANT	WEED	WEED
Rating Data Type				INJURY	STUNT	TWIST	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/6/2006	6/13/2006	6/13/2006	6/13/2006	6/13/2006
Trt-Eval Interval				1 WAT	2 WAT	2 WAT	2 WAT	2 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
UNTREATED CONTROL				0	0	0	0	0
DUAL II MAGNUM+	1.33	PT/A	PRE	0	28	48	99	99
PERMIT	0.66	OZ/A	PRE					
DUAL II MAGNUM+	1.33	PT/A	PRE	0	0	0	99	99
PERMIT+	0.66	OZ/A	PRE					
GWN-5004	3	OZ/A	PRE					
DUAL II MAGNUM+	1	PT/A	PRE	0	0	0	99	99
ATRAZINE	2	PT/A	PRE					
DUAL II MAGNUM+	1.26	PT/A	PRE	0	0	0	99	99
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
MSO+	2	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
DUAL II MAGNUM+	1.26	PT/A	PRE	0	0	0	99	99
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
COC	2	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
DUAL II MAGNUM+	1.26	PT/A	PRE	0	0	0	99	99
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
NIS	0.5	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
LSD (P=.05)				0	3	3	0	0
Standard Deviation				0	1.9	1.9	0	0
CV				0	48.1	27.85	0	0

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SWEET CORN - WEED CONTROL IN SWEET CORN WITH IMPACT

Trial ID: SWCORNWDCONW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				AMAXX	POROL			PANCA
Crop Code				ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Part Rated				WEED	WEED	PLANT	PLANT	WEED
Rating Data Type				CONTROL	CONTROL	STUNT	TWIST	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/13/2006	6/13/2006	6/27/2006	6/27/2006	6/27/2006
Trt-Eval Interval				2 WAT	2 WAT	4 WAT	4 WAT	4 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
UNTREATED CONTROL				0	0	0	0	0
DUAL II MAGNUM+	1.33	PT/A	PRE	99	99	51	49	98
PERMIT	0.66	OZ/A	PRE					
DUAL II MAGNUM+	1.33	PT/A	PRE	99	99	14	0	99
PERMIT+	0.66	OZ/A	PRE					
GWN-5004	3	OZ/A	PRE					
DUAL II MAGNUM+	1	PT/A	PRE	99	99	0	0	99
ATRAZINE	2	PT/A	PRE					
DUAL II MAGNUM+	1.26	PT/A	PRE	99	99	0	0	99
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
MSO+	2	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
DUAL II MAGNUM+	1.26	PT/A	PRE	99	99	0	0	99
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
COC	2	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
DUAL II MAGNUM+	1.26	PT/A	PRE	99	99	0	0	99
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
NIS	0.5	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
LSD (P=.05)				0	0	4	1	1
Standard Deviation				0	0	2.5	0.9	0.8
CV				0	0	26.49	13.57	0.89

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SWEET CORN - WEED CONTROL IN SWEET CORN WITH IMPACT

Trial ID: SWCORNWDCONW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				CHEAL	AMAXX	POROL	CAPBP	
Crop Code				ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Part Rated				WEED	WEED	WEED	WEED	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/27/2006	6/27/2006	6/27/2006	6/27/2006	7/25/2006
Trt-Eval Interval				4 WAT	4 WAT	4 WAT	4 WAT	6 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
UNTREATED CONTROL				0	0	0	0	0
DUAL II MAGNUM+	1.33	PT/A	PRE	99	98	91	99	38
PERMIT	0.66	OZ/A	PRE					
DUAL II MAGNUM+	1.33	PT/A	PRE	99	99	98	99	21
PERMIT+	0.66	OZ/A	PRE					
GWN-5004	3	OZ/A	PRE					
DUAL II MAGNUM+	1	PT/A	PRE	99	99	99	99	0
ATRAZINE	2	PT/A	PRE					
DUAL II MAGNUM+	1.26	PT/A	PRE	99	92	87	97	0
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
MSO+	2	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
DUAL II MAGNUM+	1.26	PT/A	PRE	99	96	89	99	0
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
COC	2	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
DUAL II MAGNUM+	1.26	PT/A	PRE	99	95	89	99	0
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
NIS	0.5	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
LSD (P=.05)				0	7	8	3	3
Standard Deviation				0	4.4	5.5	1.7	2.1
CV				0	5.27	6.91	2.01	24.61

The Ohio State University

SWEET CORN - WEED CONTROL IN SWEET CORN WITH IMPACT

Trial ID: SWCORNWDCONW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					PANCA	CHEAL	AMAXX	POROL
Crop Code				ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Part Rated				PLANT	WEED	WEED	WEED	WEED
Rating Data Type				TWIST	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	16	17	18	19	20
UNTREATED CONTROL				0	0	0	0	0
DUAL II MAGNUM+	1.33	PT/A	PRE	0	99	98	96	94
PERMIT	0.66	OZ/A	PRE					
DUAL II MAGNUM+	1.33	PT/A	PRE	0	99	98	99	93
PERMIT+	0.66	OZ/A	PRE					
GWN-5004	3	OZ/A	PRE					
DUAL II MAGNUM+	1	PT/A	PRE	0	99	99	99	99
ATRAZINE	2	PT/A	PRE					
DUAL II MAGNUM+	1.26	PT/A	PRE	0	99	99	99	99
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
MSO+	2	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
DUAL II MAGNUM+	1.26	PT/A	PRE	0	99	99	99	99
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
COC	2	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
DUAL II MAGNUM+	1.26	PT/A	PRE	0	99	99	99	99
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
NIS	0.5	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
LSD (P=.05)				0	0	2	4	4
Standard Deviation				0	0	1.1	2.6	2.7
CV				0	0	1.3	3.14	3.25

The Ohio State University

SWEET CORN - WEED CONTROL IN SWEET CORN WITH IMPACT

Trial ID: SWCORNWDCONW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				CAPBP			PANCA	CHEAL
Crop Code				ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Part Rated				WEED	PLANT	PLANT	WEED	WEED
Rating Data Type				CONTROL	CHLOROSIS	STUNT	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/25/2006	7/12/2006	7/12/2006	7/12/2006	7/12/2006
Trt-Eval Interval				6 WAT	1 WAT	1 WAT	1 WAT	1 WAT
Spray Timing				PRE	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	21	22	23	24	25
UNTREATED CONTROL				0	0	0	0	0
DUAL II MAGNUM+	1.33	PT/A	PRE	99				
PERMIT	0.66	OZ/A	PRE					
DUAL II MAGNUM+	1.33	PT/A	PRE	99				
PERMIT+	0.66	OZ/A	PRE					
GWN-5004	3	OZ/A	PRE					
DUAL II MAGNUM+	1	PT/A	PRE	99				
ATRAZINE	2	PT/A	PRE					
DUAL II MAGNUM+	1.26	PT/A	PRE	99	0	0	99	99
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
MSO+	2	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
DUAL II MAGNUM+	1.26	PT/A	PRE	99	8	3	99	99
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
COC	2	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
DUAL II MAGNUM+	1.26	PT/A	PRE	99	1	4	99	99
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
NIS	0.5	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
LSD (P=.05)				0	6	5	0	0
Standard Deviation				0	3.8	2.9	0	0
CV				0	171.43	186.67	0	0

The Ohio State University

SWEET CORN - WEED CONTROL IN SWEET CORN WITH IMPACT

Trial ID: SWCORNWDCONW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	26	27	28	29	30
Weed Code				AMAXX	POROL	CAPBP		
Crop Code				ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Part Rated				WEED	WEED	PLANT	PLANT	PLANT
Rating Data Type				CONTROL	CONTROL	INJURY	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%
Rating Date				7/12/2006	7/12/2006	7/12/2006	7/19/2006	7/19/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	2 WAT	2 WAT
Spray Timing				POST	POST	POST	POST	POST
UNTREATED CONTROL				0	0	0	0	0
DUAL II MAGNUM+	1.33	PT/A	PRE					
PERMIT	0.66	OZ/A	PRE					
DUAL II MAGNUM+	1.33	PT/A	PRE					
PERMIT+	0.66	OZ/A	PRE					
GWN-5004	3	OZ/A	PRE					
DUAL II MAGNUM+	1	PT/A	PRE					
ATRAZINE	2	PT/A	PRE					
DUAL II MAGNUM+	1.26	PT/A	PRE	96	93	99	0	0
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
MSO+	2	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
DUAL II MAGNUM+	1.26	PT/A	PRE	94	96	99	0	1
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
COC	2	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
DUAL II MAGNUM+	1.26	PT/A	PRE	96	96	99	0	4
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
NIS	0.5	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
LSD (P=.05)				7	6	0	0	4
Standard Deviation				4.1	3.5	0	0	2.6
CV				5.74	4.96	0	0	210.82

The Ohio State University

SWEET CORN - WEED CONTROL IN SWEET CORN WITH IMPACT

Trial ID: SWCORNWDCONW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				PANCA	CHEAL	AMAXX	POROL	CAPBP
Crop Code				ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Part Rated				WEED	WEED	WEED	WEED	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit				%	%	%	%	%
Rating Date				7/19/2006	7/19/2006	7/19/2006	7/19/2006	7/19/2006
Trt-Eval Interval				2 WAT	2 WAT	2 WAT	2 WAT	2 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	31	32	33	34	35
UNTREATED CONTROL				0	0	0	0	0
DUAL II MAGNUM+	1.33	PT/A	PRE					
PERMIT	0.66	OZ/A	PRE					
DUAL II MAGNUM+	1.33	PT/A	PRE					
PERMIT+	0.66	OZ/A	PRE					
GWN-5004	3	OZ/A	PRE					
DUAL II MAGNUM+	1	PT/A	PRE					
ATRAZINE	2	PT/A	PRE					
DUAL II MAGNUM+	1.26	PT/A	PRE	98	99	99	99	99
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
MSO+	2	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
DUAL II MAGNUM+	1.26	PT/A	PRE	99	99	99	99	99
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
COC	2	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
DUAL II MAGNUM+	1.26	PT/A	PRE	99	99	99	98	99
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
NIS	0.5	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
LSD (P=.05)				7	0	0	2	0
Standard Deviation				1	0	0	1	0
CV				1.35	0	0	1.35	0

The Ohio State University

SWEET CORN - WEED CONTROL IN SWEET CORN WITH IMPACT

Trial ID: SWCORNWDCONW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					PANCA	CHEAL	AMAXX	POROL
Crop Code				ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Part Rated				PLANT	WEED	WEED	WEED	WEED
Rating Data Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006
Trt-Eval Interval				4 WAT	4 WAT	4 WAT	4 WAT	4 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	36	37	38	39	40
UNTREATED CONTROL				0	0	0	0	0
DUAL II MAGNUM+	1.33	PT/A	PRE					
PERMIT	0.66	OZ/A	PRE					
DUAL II MAGNUM+	1.33	PT/A	PRE					
PERMIT+	0.66	OZ/A	PRE					
GWN-5004	3	OZ/A	PRE					
DUAL II MAGNUM+	1	PT/A	PRE					
ATRAZINE	2	PT/A	PRE					
DUAL II MAGNUM+	1.26	PT/A	PRE	0	99	99	99	99
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
MSO+	2	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
DUAL II MAGNUM+	1.26	PT/A	PRE	3	99	99	93	98
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
COC	2	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
DUAL II MAGNUM+	1.26	PT/A	PRE	5	99	99	96	99
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
NIS	0.5	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
LSD (P=.05)				4	0.4	0.4	8	2
Standard Deviation				2.2	0.3	0.3	4.8	1.2
CV				117.59	0.34	0.34	6.6	1.61

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SWEET CORN - WEED CONTROL IN SWEET CORN WITH IMPACT

Trial ID: SWCORNWDCONW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				CAPBP		PANCA	CHEAL	AMAXX
Crop Code				ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Part Rated				WEED	PLANT	WEED	WEED	WEED
Rating Data Type				CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/2/2006	8/16/2006	8/16/2006	8/16/2006	8/16/2006
Trt-Eval Interval				4 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	41	42	43	44	45
UNTREATED CONTROL				0	0	0	0	0
DUAL II MAGNUM+	1.33	PT/A	PRE					
PERMIT	0.66	OZ/A	PRE					
DUAL II MAGNUM+	1.33	PT/A	PRE					
PERMIT+	0.66	OZ/A	PRE					
GWN-5004	3	OZ/A	PRE					
DUAL II MAGNUM+	1	PT/A	PRE					
ATRAZINE	2	PT/A	PRE					
DUAL II MAGNUM+	1.26	PT/A	PRE	99	0	99	99	99
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
MSO+	2	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
DUAL II MAGNUM+	1.26	PT/A	PRE	99	3	99	99	96
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
COC	2	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
DUAL II MAGNUM+	1.26	PT/A	PRE	99	4	99	99	99
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
NIS	0.5	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
LSD (P=.05)				0.4	3	0	0	6
Standard Deviation				0.3	1.7	0	0	3.5
CV				0.34	109.95	0	0	4.77

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SWEET CORN - WEED CONTROL IN SWEET CORN WITH IMPACT

Trial ID: SWCORNWDCONW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	46	47	48	49	50
Weed Code				POROL	CAPBP			
Crop Code				ZEAMX	ZEAMX	ZEAMX	ZEAMS	ZEAMS
Part Rated				WEED	WEED	PLANT	EAR	EAR
Rating Data Type				CONTROL	CONTROL	STAND CT	TTL MKTB	TTL MKTB
Rating Unit				%	%	2 ROWS	# /PLOT	LBS/PLOT
Rating Date				8/16/2006	8/16/2006	7/17/2006	8/23/2006	8/23/2006
Trt-Eval Interval				6 WAT	6 WAT	PRE HARV	HARVEST	HARVEST
Spray Timing				POST	POST			
UNTREATED CONTROL				0	0	88	47	31.28
DUAL II MAGNUM+	1.33	PT/A	PRE			87	27	17.67
PERMIT	0.66	OZ/A	PRE					
DUAL II MAGNUM+	1.33	PT/A	PRE			88	44	29.15
PERMIT+	0.66	OZ/A	PRE					
GWN-5004	3	OZ/A	PRE					
DUAL II MAGNUM+	1	PT/A	PRE			84	40	26.17
ATRAZINE	2	PT/A	PRE					
DUAL II MAGNUM+	1.26	PT/A	PRE	99	99	87	43	30.03
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
MSO+	2	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
DUAL II MAGNUM+	1.26	PT/A	PRE	99	99	87	46	32.18
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
COC	2	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
DUAL II MAGNUM+	1.26	PT/A	PRE	99	99	85	50	34.05
IMPACT+	0.0457	PT/A	V3-V5					
ATRAZINE+	1	PT/A	V3-V5					
NIS	0.5	PT/A	V3-V5					
UAN 28%	5	PT/A	V3-V5					
LSD (P=.05)				0	0	5	18	12
Standard Deviation				0	0	3.1	11.9	7.803
CV				0	0	3.53	27.99	27.24

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TOMATOES - HERBICIDES FOR PROCESSING TOMATOES

Trial ID: TOMHERBPROCW 2006 | Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio | Investigator: Doug Doohan

TRIAL LOCATION

City: Wooster | Trial Status: Final
State/Prov.: Ohio | Trial Reliability: Reliable
Postal Code: 44691 | Initiation Date: 06/16/06
Country: USA | Planned Completion Date: 11/30/06

Objective: To evaluate herbicides for weed control and crop injury in processing tomatoes.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	AGRASS	annual grasses (various)	*Panicum spp.and Digitaria spp.*
2	SOLPT	Eastern black nightshade	*Solanum ptycanthum*
3	CAPBP	shepherd's purse	*Capsella bursa-pastoris (L.) Medicus*
4	PLAMA	broadleaf plantain	*Plantago major L.*
5	OXAST	yellow woodsorrel	*Oxalis stricta L.*

Crop 1: LYPES PROCESSING TOMATO | Variety: HEINZ 9423
Planting Date: 06/16/06 | Planting Method: MACHINE
Rate: 1 PER 18 IN | 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: 15	% OM: 3.0	Texture: SILT LOAM
% Silt: 67	pH: 6.3	Soil Name: WOOSTER SILT LOAM
% Clay: 15	CEC: 8.5	Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A	B	C
Application Date:	6/12/2006	6/15/2006	7/11/2006
Time of Day:	7-8 AM	3-4 PM	10-11 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	PRETP	POST
Applic. Placement:	BROADCAST	TMT 3&4	BROADCAST
Air Temp., Unit:	48.3 F	25.5 C	78 F
% Relative Humidity:	95.3	17	72
Wind Velocity, Unit:	2 MPH	2 MPH	4 MPH
% Cloud Cover:	50	0	100

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	LYPES PRE	LYPES PRETP	LYPES POST
Stage Scale:	.	.	PRE BLOOM
Height, Unit:	0. .	0. .	12 IN

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TOMATOES - HERBICIDES FOR PROCESSING TOMATOES

Trial ID: TOMHERBPROCW 2006 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

WEED STAGE AT EACH APPLICATION

	A		B		C	
Weed 1 Code, Stage:	AGRAS	PRE	AGRAS	PRETP	AGRAS	POST
Stage Scale:	.		.		4-6 IN	
Density, Unit:	. .		. .		LOW	PLOT
Weed 2 Code, Stage:	SOLPT	PRE	SOLPT	PRETP	SOLPT	POST
Stage Scale:	.		.		4-6 IN	
Density, Unit:	. .		. .		LOW	PLOT
Weed 3 Code, Stage:	CAPBP	PRE	CAPBP	PRETP	CAPBP	POST
Stage Scale:	.		.		4-6 IN	
Density, Unit:	. .		. .		LOW	PLOT
Weed 4 Code, Stage:	PLAMA	PRE	PLAMA	PRETP	PLAMA	POST
Stage Scale:	.		.		4-6 IN	
Density, Unit:	. .		. .		LOW	PLOT
Weed 5 Code, Stage:	OXAST	PRE	OXAST	PRETP	OXAST	POST
Stage Scale:	.		.		4-6 IN	
Density, Unit:	. .		. .		LOW	PLOT

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	TRACTOR	BACKPACK	TRACTOR
Operating Pressure:	20 PSI	40	35
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	8002VS	8002 EVS	8002VS
Nozzle Spacing, Unit:	18 IN	19 IN	12 IN
Nozzles/Row:	10	4	10
Band Width, Unit:	15 FT	19 IN	10 FT
Boom Height, Unit:	18 IN	19 IN	15 IN
Ground Speed, Unit:	3 MPH	2.5 MPH	3 MPH
Spray Volume, Unit:	28 GPA	25 GPA	25 GPA

Trial Comments:
In the Trt-Eval Interval, " WAT" refers to weeks after treatmant.

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TOMATOES - HERBICIDES FOR PROCESSING TOMATOES

Trial ID: TOMHERBPROCW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				BURN	STUNT	CHLOROSIS	STUNT	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				6/22/2006	6/22/2006	6/22/2006	7/6/2006	7/6/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	3 WAT	3 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
WEEDY CONTROL				0	0	0	0	0
WEED- FREE CONTROL				0	0	0	0	0
DUAL MAGNUM+	1.33	PT/A	PRETP	0	0	0	0	0
SENCOR+	10	OZ/A	PRETP					
SANDEA	0.5	OZ/A	PRETP					
DUAL MAGNUM+	1.33	PT/A	PRETP	0	0	0	0	0
SENCOR+	10	OZ/A	PRETP					
SANDEA	1	OZ/A	PRETP					
DUAL MAGNUM+	1.33	PT/A	PRETP	0	0	0		
SENCOR	10	OZ/A	PRETP					
SANDEA+	0.5	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	0	0	0		
SENCOR	10	OZ/A	PRETP					
SANDEA+	0.66	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	0	0	0		
SENCOR	10	OZ/A	PRETP					
MATRIX+	1	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	0	0	0		
SENCOR	10	OZ/A	PRETP					
MATRIX+	2	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	0	0	0		
SENCOR	10	OZ/A	PRETP					
HARMONY GT+	8	G/HA	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	0	0	0		
SENCOR	10	OZ/A	PRETP					
HARMONY GT+	16	G/HA	POST					
NIS	0.5	PT/A	POST					
LSD (P=.05)				0	0	0	0	0
Standard Deviation				0	0	0	0	0
CV				0	0	0	0	0

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TOMATOES - HERBICIDES FOR PROCESSING TOMATOES

Trial ID: TOMHERBPROCW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				AGRASS	SOLPT	CAPBP	OXAST	PLAMA
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				7/6/2006	7/6/2006	7/6/2006	7/6/2006	7/6/2006
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
WEEDY CONTROL				0	0	0	0	0
WEED- FREE CONTROL				99	99	99	99	99
DUAL MAGNUM+	1.33	PT/A	PRETP	92	74	99	99	99
SENCOR+	10	OZ/A	PRETP					
SANDEA	0.5	OZ/A	PRETP					
DUAL MAGNUM+	1.33	PT/A	PRETP	98	95	99	99	99
SENCOR+	10	OZ/A	PRETP					
SANDEA	1	OZ/A	PRETP					
DUAL MAGNUM+	1.33	PT/A	PRETP					
SENCOR	10	OZ/A	PRETP					
SANDEA+	0.5	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP					
SENCOR	10	OZ/A	PRETP					
SANDEA+	0.66	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP					
SENCOR	10	OZ/A	PRETP					
MATRIX+	1	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP					
SENCOR	10	OZ/A	PRETP					
MATRIX+	2	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP					
SENCOR	10	OZ/A	PRETP					
HARMONY GT+	8	G/HA	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP					
SENCOR	10	OZ/A	PRETP					
HARMONY GT+	16	G/HA	POST					
NIS	0.5	PT/A	POST					
LSD (P=.05)				12	40	0	0	0
Standard Deviation				7.4	25	0	0	0
CV				10.29	37.38	0	0	0

The Ohio State University

TOMATOES - HERBICIDES FOR PROCESSING TOMATOES

Trial ID: TOMHERBPROCW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code							AGRASS	SOLPT
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	WEED	WEED
Rating Data Type				BURN	STUNT	CHLOROSIS	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/27/2006	7/27/2006	7/27/2006	7/27/2006	7/27/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
WEEDY CONTROL				0	0	0	0	0
WEED- FREE CONTROL				0	0	0	99	99
DUAL MAGNUM+	1.33	PT/A	PRETP	0	5	0	78	68
SENCOR+	10	OZ/A	PRETP					
SANDEA	0.5	OZ/A	PRETP					
DUAL MAGNUM+	1.33	PT/A	PRETP	0	14	0	86	90
SENCOR+	10	OZ/A	PRETP					
SANDEA	1	OZ/A	PRETP					
DUAL MAGNUM+	1.33	PT/A	PRETP					
SENCOR	10	OZ/A	PRETP					
SANDEA+	0.5	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP					
SENCOR	10	OZ/A	PRETP					
SANDEA+	0.66	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP					
SENCOR	10	OZ/A	PRETP					
MATRIX+	1	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP					
SENCOR	10	OZ/A	PRETP					
MATRIX+	2	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP					
SENCOR	10	OZ/A	PRETP					
HARMONY GT+	8	G/HA	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP					
SENCOR	10	OZ/A	PRETP					
HARMONY GT+	16	G/HA	POST					
NIS	0.5	PT/A	POST					
LSD (P=.05)				0	11	0	17	36
Standard Deviation				0	6.8	0	10.6	22.5
CV				0	144.7	0	16.08	35.17

The Ohio State University

TOMATOES - HERBICIDES FOR PROCESSING TOMATOES

Trial ID: TOMHERBPROCW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	16	17	18	19	20
Weed Code				CAPBP	OXAST	PLAMA		
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				WEED	WEED	WEED	PLANT	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	BURN	STUNT
Rating Unit				%	%	%	%	%
Rating Date				7/27/2006	7/27/2006	7/27/2006	7/18/2006	7/18/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	1 WAT	1 WAT
Spray Timing				PRE	PRE	PRE	POST	POST
WEEDY CONTROL				0	0	0	0	0
WEED- FREE CONTROL				99	99	99	0	0
DUAL MAGNUM+	1.33	PT/A	PRETP	99	99	99		
SENCOR+	10	OZ/A	PRETP					
SANDEA	0.5	OZ/A	PRETP					
DUAL MAGNUM+	1.33	PT/A	PRETP	99	99	99		
SENCOR+	10	OZ/A	PRETP					
SANDEA	1	OZ/A	PRETP					
DUAL MAGNUM+	1.33	PT/A	PRETP				0	3
SENCOR	10	OZ/A	PRETP					
SANDEA+	0.5	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP				0	4
SENCOR	10	OZ/A	PRETP					
SANDEA+	0.66	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP				0	1
SENCOR	10	OZ/A	PRETP					
MATRIX+	1	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP				0	4
SENCOR	10	OZ/A	PRETP					
MATRIX+	2	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP				0	4
SENCOR	10	OZ/A	PRETP					
HARMONY GT+	8	G/HA	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP				0	3
SENCOR	10	OZ/A	PRETP					
HARMONY GT+	16	G/HA	POST					
NIS	0.5	PT/A	POST					
LSD (P=.05)				0	0	0	0	5
Standard Deviation				0	0	0	0	3.7
CV				0	0	0	0	168.22

The Ohio State University

TOMATOES - HERBICIDES FOR PROCESSING TOMATOES

Trial ID: TOMHERBPROCW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code					AGRASS	SOLPT	CAPBP	OXAST
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				7/18/2006	7/18/2006	7/18/2006	7/18/2006	7/18/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	1 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	21	22	23	24	25
WEEDY CONTROL				0	0	0	0	0
WEED- FREE CONTROL				0	99	99	99	99
DUAL MAGNUM+	1.33	PT/A	PRETP					
SENCOR+	10	OZ/A	PRETP					
SANDEA	0.5	OZ/A	PRETP					
DUAL MAGNUM+	1.33	PT/A	PRETP					
SENCOR+	10	OZ/A	PRETP					
SANDEA	1	OZ/A	PRETP					
DUAL MAGNUM+	1.33	PT/A	PRETP	0	64	94	99	99
SENCOR	10	OZ/A	PRETP					
SANDEA+	0.5	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	0	78	87	99	99
SENCOR	10	OZ/A	PRETP					
SANDEA+	0.66	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	0	97	97	99	99
SENCOR	10	OZ/A	PRETP					
MATRIX+	1	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	0	74	93	99	99
SENCOR	10	OZ/A	PRETP					
MATRIX+	2	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	0	81	89	99	99
SENCOR	10	OZ/A	PRETP					
HARMONY GT+	8	G/HA	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	0	74	82	99	99
SENCOR	10	OZ/A	PRETP					
HARMONY GT+	16	G/HA	POST					
NIS	0.5	PT/A	POST					
LSD (P=.05)				0	35	22	0	0
Standard Deviation				0	23.5	14.8	0	0
CV				0	33.21	18.44	0	0

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TOMATOES - HERBICIDES FOR PROCESSING TOMATOES

Trial ID: TOMHERBPROCW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				PLAMA			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				7/18/2006	8/1/2006	8/1/2006	8/1/2006	8/1/2006
Trt-Eval Interval				1 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	26	27	28	29	30
WEEDY CONTROL				0	0	0	0	0
WEED- FREE CONTROL				99	0	0	99	99
DUAL MAGNUM+	1.33	PT/A	PRETP					
SENCOR+	10	OZ/A	PRETP					
SANDEA	0.5	OZ/A	PRETP					
DUAL MAGNUM+	1.33	PT/A	PRETP					
SENCOR+	10	OZ/A	PRETP					
SANDEA	1	OZ/A	PRETP					
DUAL MAGNUM+	1.33	PT/A	PRETP	99	0	0	88	98
SENCOR	10	OZ/A	PRETP					
SANDEA+	0.5	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	99	0	0	91	97
SENCOR	10	OZ/A	PRETP					
SANDEA+	0.66	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	99	0	0	99	99
SENCOR	10	OZ/A	PRETP					
MATRIX+	1	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	99	0	0	83	62
SENCOR	10	OZ/A	PRETP					
MATRIX+	2	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	99	4	0	87	50
SENCOR	10	OZ/A	PRETP					
HARMONY GT+	8	G/HA	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	99	0	0	69	73
SENCOR	10	OZ/A	PRETP					
HARMONY GT+	16	G/HA	POST					
NIS	0.5	PT/A	POST					
LSD (P=.05)				0	4	0	28	46
Standard Deviation				0	2.7	0	19.2	30.9
CV				0	565.69	0	24.91	42.85

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TOMATOES - HERBICIDES FOR PROCESSING TOMATOES

Trial ID: TOMHERBPROCW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				CAPBP	OXAST	PLAMA		
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				8/1/2006	8/1/2006	8/1/2006	8/22/2006	8/22/2006
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	6 WAT	6 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	31	32	33	34	35
WEEDY CONTROL				0	0	0	0	0
WEED- FREE CONTROL				99	99	99	0	0
DUAL MAGNUM+	1.33	PT/A	PRETP					
SENCOR+	10	OZ/A	PRETP					
SANDEA	0.5	OZ/A	PRETP					
DUAL MAGNUM+	1.33	PT/A	PRETP					
SENCOR+	10	OZ/A	PRETP					
SANDEA	1	OZ/A	PRETP					
DUAL MAGNUM+	1.33	PT/A	PRETP	99	99	99	0	0
SENCOR	10	OZ/A	PRETP					
SANDEA+	0.5	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	99	99	99	0	0
SENCOR	10	OZ/A	PRETP					
SANDEA+	0.66	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	99	99	99	0	0
SENCOR	10	OZ/A	PRETP					
MATRIX+	1	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	99	99	99	0	0
SENCOR	10	OZ/A	PRETP					
MATRIX+	2	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	99	99	99	0	0
SENCOR	10	OZ/A	PRETP					
HARMONY GT+	8	G/HA	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	99	99	99	0	0
SENCOR	10	OZ/A	PRETP					
HARMONY GT+	16	G/HA	POST					
NIS	0.5	PT/A	POST					
LSD (P=.05)				0	0	0	0	0
Standard Deviation				0	0	0	0	0
CV				0	0	0	0	0

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TOMATOES - HERBICIDES FOR PROCESSING TOMATOES

Trial ID: TOMHERBPROCW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				AGRASS	SOLPT	CAPBP	OXAST	PLAMA
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				8/22/2006	8/22/2006	8/22/2006	8/22/2006	8/22/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	36	37	38	39	40
WEEDY CONTROL				23	0	0	0	0
WEED- FREE CONTROL				99	99	99	99	99
DUAL MAGNUM+	1.33	PT/A	PRETP					
SENCOR+	10	OZ/A	PRETP					
SANDEA	0.5	OZ/A	PRETP					
DUAL MAGNUM+	1.33	PT/A	PRETP					
SENCOR+	10	OZ/A	PRETP					
SANDEA	1	OZ/A	PRETP					
DUAL MAGNUM+	1.33	PT/A	PRETP	90	24	99	99	99
SENCOR	10	OZ/A	PRETP					
SANDEA+	0.5	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	93	73	99	99	99
SENCOR	10	OZ/A	PRETP					
SANDEA+	0.66	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	92	25	99	99	99
SENCOR	10	OZ/A	PRETP					
MATRIX+	1	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	99	25	99	99	99
SENCOR	10	OZ/A	PRETP					
MATRIX+	2	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	80	50	99	99	99
SENCOR	10	OZ/A	PRETP					
HARMONY GT+	8	G/HA	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	83	50	99	99	99
SENCOR	10	OZ/A	PRETP					
HARMONY GT+	16	G/HA	POST					
NIS	0.5	PT/A	POST					
LSD (P=.05)				34	49	0	0	0
Standard Deviation				21.9	33	0	0	0
CV				26.64	76.69	0	0	0

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TOMATOES - HERBICIDES FOR PROCESSING TOMATOES

Trial ID: TOMHERBPROCW 2006
Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				5O FRUIT	RED MKTB	RED MKTB	GREEN WT	GREEN WT
Rating Unit				LBS	LBS/PLOT	TONS/A	LBS/PLOT	TONS/A
Rating Date				9/26/2006	9/26/2006	9/26/2006	9/26/2006	9/26/2006
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing								
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	41	42	43	44	45
WEEDY CONTROL				5.2	7.4	6.8	0.4	0.4
WEED- FREE CONTROL				7.3	21.6	19.6	5.9	5.4
DUAL MAGNUM+	1.33	PT/A	PRETP	7.1	15.6	14.2	4.4	4
SENCOR+	10	OZ/A	PRETP					
SANDEA	0.5	OZ/A	PRETP					
DUAL MAGNUM+	1.33	PT/A	PRETP	7.4	13.2	12	6.3	5.7
SENCOR+	10	OZ/A	PRETP					
SANDEA	1	OZ/A	PRETP					
DUAL MAGNUM+	1.33	PT/A	PRETP	7.2	18.8	17.1	3.2	2.9
SENCOR	10	OZ/A	PRETP					
SANDEA+	0.5	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	7.7	20.2	18.3	4.6	4.2
SENCOR	10	OZ/A	PRETP					
SANDEA+	0.66	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	7.5	18.4	16.7	5.1	4.6
SENCOR	10	OZ/A	PRETP					
MATRIX+	1	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	7.3	16.6	15	4.8	4.4
SENCOR	10	OZ/A	PRETP					
MATRIX+	2	OZ/A	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	7.3	23.1	21	6.6	6
SENCOR	10	OZ/A	PRETP					
HARMONY GT+	8	G/HA	POST					
NIS	0.5	PT/A	POST					
DUAL MAGNUM+	1.33	PT/A	PRETP	6.9	14.1	12.8	4.8	4.3
SENCOR	10	OZ/A	PRETP					
HARMONY GT+	16	G/HA	POST					
NIS	0.5	PT/A	POST					
LSD (P=.05)				0.7	5	5	3	3
Standard Deviation				0.47	3.71	3.37	2.21	2.01
CV				6.64	21.97	21.97	48.03	48.03

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TOMATO VARIETY TOLERANCE TO HARMONY

Trial ID: TOMVARTOLHAR 2006 | Study Dir.: Joel Felix
Location: Wooster, Ohio | Investigator: Doug Doohan

TRIAL LOCATION

City: Wooster | Trial Status: Final
State/Prov.: Ohio | Trial Reliability: Reliable
Postal Code: 44691 | Initiation Date: 06/15/06
Country: USA | Planned Completion Date: 10/30/06

Objective: To evaluate crop tolerance of eight processing tomato varieies to Harmony herbicide .

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	AMBEL	common ragweed	*Ambrosia artemisifolia L.*
4	CAPBP	shepherd's purse	*Capsella bursa-pastoris (L.) Medicus*
5	CHEAL	common lambsquarters	*Chenopodium album L.*
6	DIGSA	large crabgrass	*Digitaria sanguinalis (L.) Scop.*
7	OXAST	yellow woodsorrel	*Oxalis stricta L.*
8	PANDI	fall panicum	*Panicum dichotomiflorum Michx.*
9	PLAMA	broadleaf plantain	*Plantago major L.*
10	POLPY	Pennsylvania smartweed	*Polygonum pensylvanicum L.*
11	POROL	common purslane	*Portulaca oleracea L.*
12	SETFA	giant foxtail	*Setaria faberii*
13	SOLPT	Eastern black nightshade	*Solanum ptycanthum*
14	TAROF	dandelion	*Taraxacum officinale Weber*

Crop 1: LYPES PROCESSING TOMATO | Variety: 8 VARIETIES
Planting Date: 06/15/06 | Planting Method: MACHINE PLANTED
Rate: 1 PLANT PER 18" | Depth: 2 IN
Row Spacing: 4 FT | 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: SPLIT-PLOT

SOIL DESCRIPTION

% Sand: 15	% OM: 3.0	Texture: SILT LOAM
% Silt: 67	pH: 6.3	Soil Name: WOOSTER SILT LOAM
% Clay: 15	CEC: 8.5	Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A	B
Application Date:	6/12/2006	7/11/2006
Time of Day:	7-8 AM	11AM-12PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	48.3 F	78 F
% Relative Humidity:	95.3	72
Wind Velocity, Unit:	2 MPH	4 MPH
% Cloud Cover:	50	50

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TOMATO VARIETY TOLERANCE TO HARMONY

Trial ID: TOMVARTOLHAR 2006 Study Dir.: Joel Felix
Location: Wooster, Ohio Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A		B	
Crop 1 Code, Stage:	LYPES	PRE	LYPES	POST
Stage Scale:	.		PRE-BLOOM	
Height, Unit:	0. .		12 IN	

WEED STAGE AT EACH APPLICATION

	A		B	
Weed 1 Code, Stage:	AGRAS	PRE	AGRAS	POST
Stage Scale:	.		.	
Density, Unit:	. .		. .	
Weed 2 Code, Stage:	AMAXX	PRE	AMAXX	POST
Stage Scale:	.		.	
Density, Unit:	. .		. .	
Weed 3 Code, Stage:	AMBEL	PRE	AMBEL	POST
Stage Scale:	.		.	
Density, Unit:	. .		. .	
Weed 4 Code, Stage:	CAPBP	PRE	CAPBP	POST
Stage Scale:	.		.	
Density, Unit:	. .		. .	
Weed 5 Code, Stage:	CHEAL	PRE	CHEAL	POST
Stage Scale:	.		.	
Density, Unit:	. .		. .	
Weed 6 Code, Stage:	DIGSA	PRE	DIGSA	POST
Stage Scale:	.		.	
Density, Unit:	. .		. .	
Weed 7 Code, Stage:	OXAST	PRE	OXAST	POST
Stage Scale:	.		.	
Density, Unit:	. .		. .	
Weed 8 Code, Stage:	PANDI	PRE	PANDI	POST
Stage Scale:	.		.	
Density, Unit:	. .		. .	
Weed 9 Code, Stage:	PLAMA	PRE	PLAMA	POST
Stage Scale:	.		.	
Density, Unit:	. .		. .	
Weed10 Code, Stage:	POLPY	PRE	POLPY	POST
Stage Scale:	.		.	
Density, Unit:	. .		. .	
Weed11 Code, Stage:	POROL	PRE	POROL	POST
Stage Scale:	.		.	
Density, Unit:	. .		. .	
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:	.		.	
Density, Unit:	. .		. .	

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TOMATO VARIETY TOLERANCE TO HARMONY

Trial ID: TOMVARTOLHAR 2006 Study Dir.: Joel Felix
Location: Wooster, Ohio Investigator: Doug Doohan

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	TRACTOR	TRACTOR
Operating Pressure:	20 PSI	35 PSI
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8002VS	8002VS
Nozzle Spacing, Unit:	18 IN	12 IN
Nozzles/Row:	10	10
Band Width, Unit:	15 FT	10 FT
Boom Height, Unit:	18 IN	12 IN
Ground Speed, Unit:	3 MPH	3 MPH
Spray Volume, Unit:	28 GPA	25 GPA

Trial Comments

This primary purpose of this trial is crop tolerance, not weed control.
The eight processing tomato varieties used were:
1. TR122244
2. 401401TJ
3. 61161103
4. 46TJ0203
5. 11111120
6. 97045116
7. 18818TJ0

Four plants per plot were used for yield records; (2 rows 4' apart; 18" between plants)
In the Trt-Eval Interval, " **WAT"** refers to weeks after treatmant.

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TOMATO VARIETY TOLERANCE TO HARMONY

Trial ID: TOMVARTOLHAR 2006
Study Dir.: Joel Felix
Location: Wooster, Ohio
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	THIN	LEAF CURL	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				7/18/2006	7/18/2006	7/18/2006	7/18/2006	7/18/2006	8/1/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	1 WAT	3 WAT
Spray Timing				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
TR122244				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
TR122244				0	9	0	8	0	5
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
TR122244				0	6	0	16	0	9
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
401401TJ				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
401401TJ				0	4	0	6	0	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
401401TJ				0	1	0	6	0	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
61161103				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
61161103				0	1	0	1	0	6
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
61161103				0	1	0	0	0	5
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
46TJ0203				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						

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TOMATO VARIETY TOLERANCE TO HARMONY

Trial ID: TOMVARTOLHAR 2006
Study Dir.: Joel Felix
Location: Wooster, Ohio
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	THIN	LEAF CURL	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				7/18/2006	7/18/2006	7/18/2006	7/18/2006	7/18/2006	8/1/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	1 WAT	3 WAT
Spray Timing				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
46TJ0203				0	0	0	4	0	3
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
46TJ0203				0	1	0	10	0	9
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
11111120				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
11111120				0	3	0	4	0	5
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
11111120				0	8	0	6	0	8
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
97045116				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
97045116				0	0	0	3	0	3
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
97045116				0	1	0	8	3	8
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
18818TJ0				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
18818TJ0				0	3	0	4	0	3
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						

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TOMATO VARIETY TOLERANCE TO HARMONY

Trial ID: TOMVARTOLHAR 2006
Study Dir.: Joel Felix
Location: Wooster, Ohio
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	THIN	LEAF CURL	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				7/18/2006	7/18/2006	7/18/2006	7/18/2006	7/18/2006	8/1/2006
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	1 WAT	3 WAT
Spray Timing				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
18818TJ0				0	3	0	6	0	6
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
331331BF				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
331331BF				0	4	0	8	0	3
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
331331BF				0	5	0	4	0	1
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
LSD (P=.05)				0	5	0	7	1	8
Standard Deviation				0	3.2	0	4.9	1	5.5
CV				0	156.48	0	126.28	979.8	186.8

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TOMATO VARIETY TOLERANCE TO HARMONY

Trial ID: TOMVARTOLHAR 2006
Study Dir.: Joel Felix
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code							AGRASS	SOLPT
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	WEED	WEED
Rating Data Type				CHLOROSIS	THIN	LEAF CURL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/1/2006	8/1/2006	8/1/2006	8/1/2006	8/1/2006
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11
TR122244				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
TR122244				0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
TR122244				0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
401401TJ				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
401401TJ				0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
401401TJ				0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
61161103				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
61161103				0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
61161103				0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
46TJ0203				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					

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TOMATO VARIETY TOLERANCE TO HARMONY

Trial ID: TOMVARTOLHAR 2006
Study Dir.: Joel Felix
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code							AGRASS	SOLPT
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	WEED	WEED
Rating Data Type				CHLOROSIS	THIN	LEAF CURL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/1/2006	8/1/2006	8/1/2006	8/1/2006	8/1/2006
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11
46TJ0203				0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
46TJ0203				0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
11111120				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
11111120				0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
11111120				0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
97045116				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
97045116				0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
97045116				0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
18818TJ0				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
18818TJ0				0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					

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TOMATO VARIETY TOLERANCE TO HARMONY

Trial ID: TOMVARTOLHAR 2006
Study Dir.: Joel Felix
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code							AGRASS	SOLPT
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	WEED	WEED
Rating Data Type				CHLOROSIS	THIN	LEAF CURL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/1/2006	8/1/2006	8/1/2006	8/1/2006	8/1/2006
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11
18818TJ0				0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
331331BF				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
331331BF				0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
331331BF				0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
LSD (P=.05)				0	0	0	0	0
Standard Deviation				0	0	0	0	0
CV				0	0	0	0	0

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TOMATO VARIETY TOLERANCE TO HARMONY

Trial ID: TOMVARTOLHAR 2006
Study Dir.: Joel Felix
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				TAROF				AMARE
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				WEED	PLANT	PLANT	PLANT	WEED
Rating Data Type				CONTROL	STUNT	CHLOROSIS	THIN	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/1/2006	8/22/2006	8/22/2006	8/22/2006	8/22/2006
Trt-Eval Interval				3 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	12	13	14	15	16
TR122244				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
TR122244				0	0	0	0	99
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
TR122244				0	0	0	0	99
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
401401TJ				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
401401TJ				0	0	0	0	99
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
401401TJ				0	0	0	0	99
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
61161103				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
61161103				0	0	0	0	99
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
61161103				0	0	0	0	99
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
46TJ0203				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					

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TOMATO VARIETY TOLERANCE TO HARMONY

Trial ID: TOMVARTOLHAR 2006
Study Dir.: Joel Felix
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				TAROF				AMARE
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				WEED	PLANT	PLANT	PLANT	WEED
Rating Data Type				CONTROL	STUNT	CHLOROSIS	THIN	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/1/2006	8/22/2006	8/22/2006	8/22/2006	8/22/2006
Trt-Eval Interval				3 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	12	13	14	15	16
46TJ0203				0	3	0	3	99
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
46TJ0203				0	0	0	0	99
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
11111120				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
11111120				0	0	0	0	99
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
11111120				0	4	0	4	99
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
97045116				0	0	0	0	25
Control								
Dual Magnum	1.33	PT/A	PRE					
97045116				0	5	0	0	99
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
97045116				0	8	0	3	99
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
18818TJ0				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
18818TJ0				0	1	0	0	99
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					

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TOMATO VARIETY TOLERANCE TO HARMONY

Trial ID: TOMVARTOLHAR 2006
Study Dir.: Joel Felix
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				TAROF				AMARE
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				WEED	PLANT	PLANT	PLANT	WEED
Rating Data Type				CONTROL	STUNT	CHLOROSIS	THIN	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/1/2006	8/22/2006	8/22/2006	8/22/2006	8/22/2006
Trt-Eval Interval				3 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	12	13	14	15	16
18818TJ0				0	0	0	3	99
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
331331BF				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
331331BF				0	0	0	0	99
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
331331BF				0	0	0	0	99
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
LSD (P=.05)				0	5	0	3	14
Standard Deviation				0	3.4	0	2.3	10.1
CV				0	404.86	0	487.04	15.07

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TOMATO VARIETY TOLERANCE TO HARMONY

Trial ID: TOMVARTOLHAR 2006
Study Dir.: Joel Felix
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				AMBEL	CAPBP	CHEAL	DIGSA	OXAST
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				8/22/2006	8/22/2006	8/22/2006	8/22/2006	8/22/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	17	18	19	20	21
TR122244				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
TR122244				0	99	99	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
TR122244				0	99	99	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
401401TJ				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
401401TJ				0	99	99	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
401401TJ				0	99	99	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
61161103				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
61161103				0	99	99	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
61161103				0	99	99	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
46TJ0203				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					

The Ohio State University

TOMATO VARIETY TOLERANCE TO HARMONY

Trial ID: TOMVARTOLHAR 2006
Study Dir.: Joel Felix
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				AMBEL	CAPBP	CHEAL	DIGSA	OXAST
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				8/22/2006	8/22/2006	8/22/2006	8/22/2006	8/22/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	17	18	19	20	21
46TJ0203				0	99	99	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
46TJ0203				0	99	99	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
11111120				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
11111120				0	99	99	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
11111120				0	99	99	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
97045116				0	25	25	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
97045116				0	99	99	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
97045116				0	99	99	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
18818TJ0				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
18818TJ0				0	99	99	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					

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TOMATO VARIETY TOLERANCE TO HARMONY

Trial ID: TOMVARTOLHAR 2006
Study Dir.: Joel Felix
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				AMBEL	CAPBP	CHEAL	DIGSA	OXAST
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				8/22/2006	8/22/2006	8/22/2006	8/22/2006	8/22/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	17	18	19	20	21
18818TJ0				0	99	99	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
331331BF				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
331331BF				0	99	99	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
331331BF				0	99	99	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
LSD (P=.05)				0	14	14	0	0
Standard Deviation				0	10.1	10.1	0	0
CV				0	15.07	15.07	0	0

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TOMATO VARIETY TOLERANCE TO HARMONY

Trial ID: TOMVARTOLHAR 2006
Study Dir.: Joel Felix
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				PANDI	POLPY	POROL	SOLPT	TAROF
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				8/22/2006	8/22/2006	8/22/2006	8/22/2006	8/22/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	22	23	24	25	26
TR122244				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
TR122244				0	99	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
TR122244				0	99	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
401401TJ				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
401401TJ				0	99	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
401401TJ				0	99	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
61161103				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
61161103				0	99	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
61161103				0	99	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
46TJ0203				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					

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TOMATO VARIETY TOLERANCE TO HARMONY

Trial ID: TOMVARTOLHAR 2006
Study Dir.: Joel Felix
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				PANDI	POLPY	POROL	SOLPT	TAROF
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				8/22/2006	8/22/2006	8/22/2006	8/22/2006	8/22/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	22	23	24	25	26
46TJ0203				23	99	0	25	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
46TJ0203				0	99	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
11111120				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
11111120				21	99	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
11111120				18	99	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
97045116				0	25	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
97045116				0	99	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
97045116				0	99	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
18818TJ0				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
18818TJ0				0	99	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					

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TOMATO VARIETY TOLERANCE TO HARMONY

Trial ID: TOMVARTOLHAR 2006
Study Dir.: Joel Felix
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code				PANDI	POLPY	POROL	SOLPT	TAROF
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				8/22/2006	8/22/2006	8/22/2006	8/22/2006	8/22/2006
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	22	23	24	25	26
18818TJ0				0	99	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
331331BF				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
331331BF				21	99	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
331331BF				0	99	0	0	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
LSD (P=.05)				23	14	0	14	0
Standard Deviation				16.5	10.1	0	10.1	0
CV				478.92	15.07	0	979.8	0

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TOMATO VARIETY TOLERANCE TO HARMONY

Trial ID: TOMVARTOLHAR 2006
Study Dir.: Joel Felix
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				5O FRUIT	RED MKTB	RED MKTB	GREEN WT	GREEN WT
Rating Unit				LB	LB/PLOT	TONS/A	LB/PLOT	TONS/A
Rating Date				9/26/2006	9/26/2006	9/26/2006	9/26/2006	9/26/2006
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing								
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	27	28	29	30	31
TR122244				6	16	14.5	4.9	4.5
Control								
Dual Magnum	1.33	PT/A	PRE					
TR122244				5.6	11.6	10.5	6.1	5.5
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
TR122244				5	15.4	14	10.6	9.6
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
401401TJ				6.4	10.7	9.7	5.7	5.2
Control								
Dual Magnum	1.33	PT/A	PRE					
401401TJ				6.8	10	9.1	7.8	7.1
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
401401TJ				6.5	10	9.1	7.5	6.8
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
61161103				6.4	18.9	17.1	2	1.8
Control								
Dual Magnum	1.33	PT/A	PRE					
61161103				6.2	20.6	18.7	3.4	3.1
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
61161103				5.9	21.1	19.2	4.1	3.7
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
46TJ0203				6.5	16.4	14.9	3.6	3.3
Control								
Dual Magnum	1.33	PT/A	PRE					

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TOMATO VARIETY TOLERANCE TO HARMONY

Trial ID: TOMVARTOLHAR 2006
Study Dir.: Joel Felix
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				5O FRUIT	RED MKTB	RED MKTB	GREEN WT	GREEN WT
Rating Unit				LB	LB/PLOT	TONS/A	LB/PLOT	TONS/A
Rating Date				9/26/2006	9/26/2006	9/26/2006	9/26/2006	9/26/2006
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing								
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	27	28	29	30	31
46TJ0203				6.3	12	10.9	3.6	3.2
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
46TJ0203				6.2	13.4	12.2	5.1	4.6
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
11111120				8.1	14.3	13	7.3	6.6
Control								
Dual Magnum	1.33	PT/A	PRE					
11111120				8	12.8	11.6	8.1	7.3
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
11111120				7.7	11.3	10.3	9.6	8.7
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
97045116				7.2	14.6	13.2	5.5	5
Control								
Dual Magnum	1.33	PT/A	PRE					
97045116				7.1	17.4	15.8	9.2	8.3
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
97045116				6.5	9.8	8.9	5.8	5.3
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
18818TJ0				6.9	11.3	10.3	3.5	3.2
Control								
Dual Magnum	1.33	PT/A	PRE					
18818TJ0				6.5	13	11.8	4.3	3.9
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					

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TOMATO VARIETY TOLERANCE TO HARMONY

Trial ID: TOMVARTOLHAR 2006
Study Dir.: Joel Felix
Location: Wooster, Ohio
Investigator: Doug Doohan

Weed Code								
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				5O FRUIT	RED MKTB	RED MKTB	GREEN WT	GREEN WT
Rating Unit				LB	LB/PLOT	TONS/A	LB/PLOT	TONS/A
Rating Date				9/26/2006	9/26/2006	9/26/2006	9/26/2006	9/26/2006
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing								
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	27	28	29	30	31
18818TJ0				6.1	16.3	14.8	6.1	5.5
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
331331BF				6.5	10.1	9.1	4.8	4.3
Control								
Dual Magnum	1.33	PT/A	PRE					
331331BF				6.3	17.1	15.5	7.7	7
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
331331BF				6.6	13.1	11.9	8.4	7.6
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
LSD (P=.05)				0.7	6	5	5	4
Standard Deviation				0.55	3.88	3.52	3.27	2.97
CV				8.34	27.61	27.61	54.29	54.29