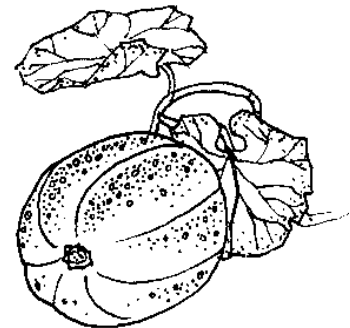
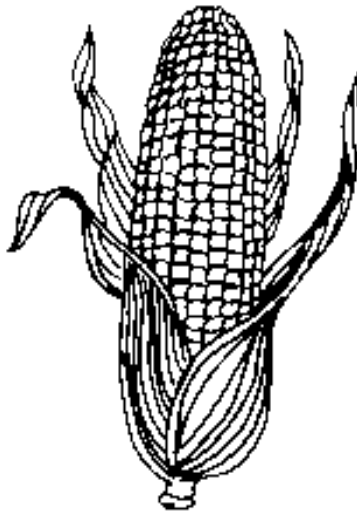
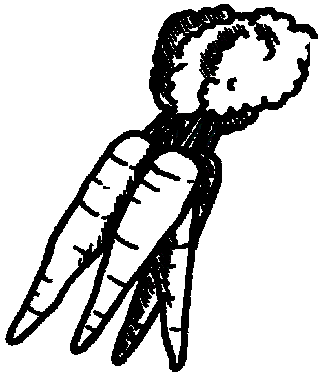


# Weed Management In Horticultural Crops

## RESEARCH RESULTS 2004



Douglas Doohan  
Joel Felix  
Tim Koch



Department of Horticulture and Crop Science  
The Ohio State University  
Ohio Agricultural Research and Development Center  
Ohio State Extension

This report contains the results of research on horticultural crop weed management in Ohio for 2004. This report and other resources are available on the Internet at:  
[www.oardc.ohio-state.edu/weedworkshop](http://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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**Karen Amisi**

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**Syngenta Seeds, Inc.**

**Valent Agricultural Products**

## **A LIST OF CROP BAYER CODES USED IN THIS REPORT:**

AFEGR = Dill  
BRSOA = Collard  
BRSOC = Kale  
CILAN\* = Cilantro  
PARSS = Parsley  
GLXMA = Soybean  
LACSA = Lettuce  
LYPES = Tomato  
MABSD = Apple  
MUSGN\* = Mustard Green  
TURGN\* = Turnip Green  
ZEAMS = Sweet corn  
ZEAMX = Field corn

\* not official Bayer Code.

## **A LIST OF ABBREVIATIONS AND DEFINITIONS USED IN THIS REPORT:**

BUGGY WHIP = New and expanding leaves enclosed in a tight roll  
CHLOROSIS = Yellow coloration or bleaching of foliage  
COLLAR = In corn, the discolored area where the leaf attaches to the stalk  
INJURY = Composite assessment of stunting, chlorosis, and other visible effects  
MKTB = Marketable  
NO = Number  
PRETP = Pre transplant  
POSTP = Post transplant  
STAND CT = Stand count  
STUNT = Reduction in height or growth  
TTL = Total  
TWIST = Leaf and/or stem curl  
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	<i>Abutilon theophrasti</i> Medicus
AGRASS*	foxtail, crabgrass spp.	<i>Setaria, Digitaria</i> spp.
AGGRE	quackgrass	<i>Elytrigia repens</i> (L.) Nevski
AMABL	prostrate pigweed	<i>Amaranthus blitoides</i> S. Wats.
AMARE	redroot pigweed	<i>Amaranthus retroflexus</i>
AMAXX	pigweed spp.	<i>Amaranthus</i> spp.
AMBEL	common ragweed	<i>Ambrosia artemisiifolia</i> L.
AMBTR	giant ragweed	<i>Ambrosia trifida</i> L.
CHEAL	common lambsquarters	<i>Chenopodium album</i> L.
CIRAR	Canada thistle	<i>Cirsium arvense</i> (L.) Scop.
CYPES	yellow nutsedge	<i>Cyperus esculentes</i> L.
DIGSA	large crabgrass	<i>Digitaria sanguinalis</i> (L.) Scop.
GASCI	hairy galinsoga	<i>Galinsoga ciliata</i> (Raf.) Blake
MELAL	White campion	<i>Silene alba</i> (Mill.) E. H. L. Krause
NICPH	Apple of Peru	<i>Nicandra physalodes</i> (L.) Gaertner
OXAST	yellow woodsorrel	<i>Oxalis stricta</i> L.
PANDI	fall panicum	<i>Panicum dichotomiflorum</i> Michx.
POLPY	Pennsylvania smartweed	<i>Polygonum pensylvanicum</i> L.
POROL	common purslane	<i>Portulaca oleracea</i> L.
SENVU	common groundsel	<i>Senecio vulgaris</i> L.
SOLPT	Eastern black nightshade	<i>Solanum ptycanthum</i> Dun.
STEME	common chickweed	<i>Stellaria media</i> (L.) Vill
TAROF	dandelion	<i>Taraxacum officinale</i> Weber in Wiggers
VERPG	purslane speedwell	<i>Veronica peregrina</i> L.

\* not official Bayer Code.

## HERBICIDE LIST

TRADE NAME	COMMON NAME	FORMULATION	MANUFACTURER
AATREX	atrazine	4 L	Syngenta
AIM	carfentrazone - ethyl	2 EC	FMC Corp.
CALLISTO	mesotrione	4.0 SC	Syngenta
CLARITY	dicamba	4.8 L	BASF
COMMAND	clomazone	3 ME	FMC Corp
DEFINE	flufenacet	60 DF	Bayer CropScience
DUAL II MAGNUM	s-metolachlor + safener	7.64 EC	Syngenta
GOAL 2XL	oxyfluoren	2 SL	Dow AgroSciences LLC
LOROX	linuron	50 DF	Griffin LLC
LUMAX	s-metolachlor+ atrazine+mesotrione	3.94 SE	Syngenta
MATRIX	rimsulfuron	25 DF	E.I.Du Pont de Nemours and Company
NORTRON	ethofumesate	4 SC	Bayer CropScience
OPTION	foramsulfuron	35 WDG	Bayer CropScience
OUTLOOK	dimethenamid	6 L	BASF
PRINCEP	simazine	4 L	Syngenta
PROWL	pendimethalin	3.3 EC	BASF
ROUNDUP WEATHERMAX	glyphosate	4.5 L	Monsanto
SANDEA	halosulfuron-methyl	75 DF	Gowan Co.
SELECT	clethodim	2 L	Valent
SENCOR	metribuzin	75 DF	Bayer CropScience
SINBAR	terbacil	80 WP	E.I.Du Pont de Nemours and Company
SOLICAM	norflurazon	80 WF	Syngenta
SPARTAN	sulfentrazone	75 DF	FMC Corp

## ADJUVANT LIST

TRADE NAME	ABBREVIATION	DESCRIPTION
Ammonium Sulfate	AMS	Spray grade fertilizer
Crop Oil Concentrate	COC	Paraffin base petroleum oil
28 percent nitrogen	UAN	Urea ammonia nitrate
Induce	NIS	Non-ionic surfactant
	MSO	Methylated seed oil



**Daily Weather Summary for 4/1/2003 to 8/31/2003 at OARDC - Vegetable Crops Research Branch, Fremont, OH.  
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
4/1/03	.05	26	49	5/1/03	0.05	48	75	6/1/03	.04	38	58	7/1/03	0	58	84	8/1/03	0	60	84
4/2/03	0	46	71	5/2/03	.69	48	81	6/2/03	0	39	64	7/2/03	0	62	85	8/2/03	1.28	58	86
4/3/03	0	36	76	5/3/03	0	42	53	6/3/03	.07	48	71	7/3/03	0	63	87	8/3/03	.18	62	83
4/4/03	0	30	53	5/4/03	.01	33	57	6/4/03	.05	49	59	7/4/03	0	67	91	8/4/03	.22	60	78
4/5/03	2.75	31	43	5/5/03	.7	51	62	6/5/03	0	48	63	7/5/03	.15	68	92	8/5/03	.25	57	80
4/6/03	0	26	36	5/6/03	.02	51	77	6/6/03	0	44	70	7/6/03	.04	67	87	8/6/03	.25	58	79
4/7/03	.22	27	36	5/7/03	.23	48	76	6/7/03	.02	53	78	7/7/03	.44	64	89	8/7/03	0	61	84
4/8/03	.19	29	36	5/8/03	1.12	48	57	6/8/03	0	59	79	7/8/03	.62	65	84	8/8/03	0	57	84
4/9/03	0	29	34	5/9/03	0.5	47	57	6/9/01	.78	56	76	7/9/03	.76	65	88	8/9/03	0	68	81
4/10/03	0	27	39	5/10/03	0.3	49	81	6/10/03	0	53	76	7/10/03	.04	64	77	8/10/03	0	68	79
4/11/03	0	26	49	5/11/03	0.57	41	76	6/11/03	0	61	79	7/11/03	.3	63	82	8/11/03	0	58	81
4/12/03	0	30	63	5/12/03	0.23	44	62	6/12/03	.27	57	78	7/12/03	0	55	75	8/12/03	0	55	81
4/13/03	0	25	57	5/13/03	.03	41	53	6/13/03	.73	59	77	7/13/03	0	53	80	8/13/03	0	60	82
4/14/03	0	33	53	5/14/03	0	37	67	6/14/03	.13	60	80	7/14/03	0	54	83	8/14/03	0	60	82
4/15/03	0	41	77	5/15/03	.2	45	70	6/15/03	.02	53	75	7/15/03	0	58	85	8/15/03	0	65	89
4/16/03	0	50	83	5/16/03	0	48	66	6/16/03	0	53	77	7/16/03	0	56	83	8/16/03	.04	64	89
4/17/03	0	33	81	5/17/03	0	51	67	6/17/03	0	61	76	7/17/03	0	54	82	8/17/03	.54	55	89
4/18/03	.07	34	54	5/18/03	0	51	69	6/18/03	.02	61	72	7/18/03	.02	59	85	8/18/03	0	50	76
4/19/03	.07	46	67	5/19/03	0	55	66	6/19/03	0	58	82	7/19/03	0	47	78	8/19/03	0	50	79
4/20/03	0	57	78	5/20/03	.47	56	76	6/20/03	0	48	71	7/20/03	0	54	81	8/20/03	0	52	85
4/21/03	.03	48	78	5/21/03	.12	44	73	6/21/03	0	46	72	7/21/03	1.03	63	83	8/21/03	0	56	86
4/22/03	0	37	60	5/22/03	0	38	57	6/22/03	0	50	79	7/22/03	.41	60	79	8/22/03	.4	65	90
4/23/03	0	27	45	5/23/03	0	41	61	6/23/03	0	53	85	7/23/03	.04	57	75	8/23/03	0	53	81
4/24/03	0	27	57	5/24/03	0	40	63	6/24/03	0	55	89	7/24/03	0	52	77	8/24/03	0	52	78
4/25/03	0	30	65	5/25/03	0	41	60	6/25/03	0	61	89	7/25/03	0	55	81	8/25/03	0	62	81
4/26/03	.04	38	64	5/26/03	0	40	65	6/26/03	0	68	91	7/26/03	0	60	84	8/26/03	0	66	90
4/27/03	0	28	59	5/27/03	0	42	70	6/27/03	0	54	90	7/27/03	0	69	85	8/27/03	.59	63	84
4/28/03	0	45	73	5/28/03	.23	42	70	6/28/03	0	57	79	7/28/03	1.57	60	85	8/28/03	0	57	88
4/29/03	0	41	80	5/29/03	0	47	73	6/29/03	0	63	84	7/29/03	0	48	74	8/29/03	0	58	87
4/30/03	0	43	63	5/30/03	0	50	77	6/30/03	.12	62	85	7/30/03	0	48	79	8/30/03	0	61	81
				5/31/03	.86	50	76					7/31/03	0	53	84	8/31/03	0	66	73

**Daily Weather Summary for 4/1/2003 to 8/31/2003 at OARDC, WOOSTER.**  
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 p. (in)	Min. Temp. °F	Max. Temp. °F	Date	Precip (in)	Min. Temp. °F	Max. Temp. °F	Date	Precip p. (in)	Min. Temp. °F	Max. Temp. °F	Date	Precip p. (in)	Min. Temp. °F	Max. Temp. °F
4/1/03	.08	36.3	68.7	5/1/03	.13	59.9	83.1	6/1/03	0	41.7	60.0	7/1/03	0	57.3	87.3	8/1/03	.01	65.8	86.2
4/2/03	0	50.9	75.1	5/2/03	.04	48.9	60.4	6/2/03	0	36.1	71.5	7/2/03	0	63.4	87.7	8/2/03	.36	64.9	81.9
4/3/03	0	47.7	75.9	5/3/03	0	45.1	64.8	6/3/03	.38	51.0	57.7	7/3/03	0	61.9	87.5	8/3/03	.32	66.4	78.1
4/4/03	.98	41.4	63.6	5/4/03	0	38.5	70.5	6/4/03	.09	54.8	64.4	7/4/03	.47	67.3	89.8	8/4/03	0	64.3	81.2
4/5/03	.6	31.6	54.3	5/5/03	.81	50.7	75.1	6/5/03	0	48.8	61.9	7/5/03	0	69.4	85.1	8/5/03	.07	61.3	79.6
4/6/03	0	29.1	40.1	5/6/03	0	59.0	79.5	6/6/03	0	43.0	76.0	7/6/03	.07	66.9	88.7	8/6/03	0	61.4	82.4
4/7/03	.65	34.9	42.6	5/7/03	.26	52.1	70.3	6/7/03	.04	57.7	74.0	7/7/03	.64	67.6	84.7	8/7/03	.01	63.3	83.1
4/8/03	.01	33.5	43.5	5/8/03	.55	51.8	66.9	6/8/03	.67	54.8	79.6	7/8/03	2.56	66.4	91.2	8/8/03	0	63.5	79.9
4/9/03	0	31.6	43.1	5/9/03	.83	48.9	73.8	6/9/01	0	56.6	73.7	7/9/03	.16	66.2	77.8	8/9/03	.04	64.3	80.6
4/10/03	0	35.7	60.1	5/10/03	.06	65.3	77.8	6/10/03	0	52.2	79.9	7/10/03	.43	67.4	79.8	8/10/03	.02	60.8	80.6
4/11/03	0	31.7	63.3	5/11/03	.04	51.6	75.4	6/11/03	.5	64.5	78.4	7/11/03	.14	64.0	74.0	8/11/03	0	59.6	83.8
4/12/03	0	37.0	58.8	5/12/03	.26	47.4	51.6	6/12/03	1.32	66.4	77.9	7/12/03	0	55.6	77.6	8/12/03	0	62.6	85.9
4/13/03	0	29.3	59.7	5/13/03	0	44.9	64.7	6/13/03	.17	64.7	83.0	7/13/03	0	52.3	84.0	8/13/03	0	64.6	87.3
4/14/03	0	33.3	76.6	5/14/03	.02	38.2	72.0	6/14/03	0	62.7	74.9	7/14/03	0	54.9	86.3	8/14/03	0	64.0	91.0
4/15/03	0	53.7	81.0	5/15/03	.74	51.7	75.4	6/15/03	0	60.1	82.1	7/15/03	.32	56.3	84.7	8/15/03	.4	67.2	88.2
4/16/03	0	51.0	80.2	5/16/03	.11	54.6	69.2	6/16/03	0	59.3	82.1	7/16/03	.02	58.3	80.9	8/16/03	.76	67.2	84.7
4/17/03	0	43.9	69.6	5/17/03	0	50.4	66.8	6/17/03	.05	63.5	68.1	7/17/03	0	54.8	84.0	8/17/03	.01	56.9	77.6
4/18/03	0	48.7	60.4	5/18/03	.01	53.6	68.0	6/18/03	.01	62.3	78.4	7/18/03	.03	56.3	79.9	8/18/03	0	53.8	80.4
4/19/03	0	44.2	76.1	5/19/03	0	49.9	76.6	6/19/03	.03	51.2	68.1	7/19/03	0	50.9	80.7	8/19/03	0	55.3	86.8
4/20/03	.3	56.5	80.4	5/20/03	.08	51.6	65.6	6/20/03	0	47.3	68.9	7/20/03	.02	54.9	81.3	8/20/03	0	57.2	88.8
4/21/03	0	49.5	62.9	5/21/03	0	42.2	61.4	6/21/03	0	49.8	73.7	7/21/03	.87	68.3	76.7	8/21/03	0	64.4	88.9
4/22/03	.02	39.0	49.6	5/22/03	0	36.1	66.7	6/22/03	0	50.4	81.4	7/22/03	.28	61.7	75.8	8/22/03	0	58.9	83.0
4/23/03	0	31.6	52.7	5/23/03	.01	43.6	63.3	6/23/03	0	50.1	87.6	7/23/03	.12	60.4	73.1	8/23/03	0	53.4	78.8
4/24/03	0	27.1	62.7	5/24/03	.01	42.3	61.3	6/24/03	0	55.0	90.3	7/24/03	0	55.6	80.0	8/24/03	0	52.3	80.2
4/25/03	0	36.1	66.5	5/25/03	0	46.5	68.5	6/25/03	0	59.6	90.2	7/25/03	0	54.9	84.4	8/25/03	0	56.8	87.7
4/26/03	0	39.6	60.4	5/26/03	0	44.3	67.7	6/26/03	.03	64.4	89.2	7/26/03	0	59.1	82.1	8/26/03	.87	66.4	81.1
4/27/03	0	29.36	73.9	5/27/03	.1	45.6	67.7	6/27/03	0	58.3	77.7	7/27/03	.87	70.1	86.0	8/27/03	.03	64.7	85.4
4/28/03	0	37.8	77.8	5/28/03	0	46.5	71.6	6/28/03	0	52.2	82.1	7/28/03	0	55.1	73.6	8/28/03	0	55.8	86.3
4/29/03	.12	47.9	70.8	5/29/03	.03	51.7	76.5	6/29/03	0	64.2	82.4	7/29/03	.01	50.8	79.7	8/29/03	.32	67.8	84.5
4/30/03	0	51.0	79.3	5/30/03	0	50.4	74.2	6/30/03	.65	61.8	78.7	7/30/03	0	53.9	86.0	8/30/03	.39	52.1	72.8
				5/31/03	.55	46.0	63.8					7/31/03	.16	63.4	79.9	8/31/03	.13	51.2	74.4

**Daily Weather Summary for 4/1/2003 to 8/31/2003 at OARDC - Muck Crops Research Branch, Celeryville, OH.  
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
4/1/03	.	.	.	5/1/03	.74	61	83	6/1/03	0	38.1	60.8	7/1/03	.1	62.4	84.8	8/1/03	0	64.8	85.6
4/2/03	.	.	.	5/2/03	0	45	60	6/2/03	0	37.3	70.4	7/2/03	0	62.8	86.4	8/2/03	1.34	64	79.6
4/3/03	.	.	.	5/3/03	0	42	62	6/3/03	.35	51.3	57.6	7/3/03	0	62.4	88.5	8/3/03	.21	66	76.8
4/4/03	.	.	.	5/4/03	0	37.7	68	6/4/03	.04	53.3	60	7/4/03	.01	68.8	91.3	8/4/03	.07	62.8	77.6
4/5/03	.	.	.	5/5/03	.55	52.5	74	6/5/03	0	50.2	64.4	7/5/03	.02	68.8	86.8	8/5/03	0	58.8	78.8
4/6/03	.	.	.	5/6/03	0	60	77.6	6/6/03	0	44.7	76.4	7/6/03	0	67.6	89.3	8/6/03	0	61.6	80.4
4/7/03	.	.	.	5/7/03	.46	52.1	68	6/7/03	0	59.2	76	7/7/03	.78	66	84	8/7/03	0	63.2	81.6
4/8/03	.	.	.	5/8/03	.14	52.1	59.2	6/8/03	1.28	58.8	79.6	7/8/03	3.57	67.6	87.7	8/8/03	0	59.6	80.8
4/9/03	.	.	.	5/9/03	1.25	50.6	74.4	6/9/01	.01	57.6	74	7/9/03	.07	67.6	74.8	8/9/03	0	66	78
4/10/03	.	.	.	5/10/03	.03	66.8	74.4	6/10/03	0	54.1	76.4	7/10/03	.08	67.2	78.4	8/10/03	0	63.2	79.6
4/11/03	.	.	.	5/11/03	.11	49.8	71.3	6/11/03	0	66.4	77.6	7/11/03	.03	62.4	72	8/11/03	0	58.4	78.8
4/12/03	.	.	.	5/12/03	.29	42	61	6/12/03	.22	63.2	74.8	7/12/03	0	57.6	75.2	8/12/03	0	61.2	82
4/13/03	.	.	.	5/13/03	.01	44.7	64.4	6/13/03	.02	62	79.2	7/13/03	0	52.1	81.2	8/13/03	0	63.2	85.6
4/14/03	.	.	.	5/14/03	.01	36.5	68.4	6/14/03	0	62	73.2	7/14/03	0	54.9	84.4	8/14/03	0	62.8	88.9
4/15/03	.	.	.	5/15/03	.13	51	69.6	6/15/03	0	58	77.6	7/15/03	.06	58.8	83.6	8/15/03	.23	66.8	88.9
4/16/03	.	.	.	5/16/03	0	51	66.4	6/16/03	0	55.3	78.8	7/16/03	.01	60.8	80.4	8/16/03	0	66.8	86.8
4/17/03	.	.	.	5/17/03	0	52.1	69.2	6/17/03	.27	64.4	68.8	7/17/03	.06	54.9	84.8	8/17/03	0	57.3	76.4
4/18/03	.	.	.	5/18/03	0	55.3	68	6/18/03	0	61.6	77.2	7/18/03	.01	58	77.6	8/18/03	0	50.6	80.8
4/19/03	.	.	.	5/19/03	0	54.1	78	6/19/03	.02	50.6	67.2	7/19/03	0	47.4	80.4	8/19/03	0	51.3	86
4/20/03	.	.	.	5/20/03	.67	53.7	70	6/20/03	0	47	68.4	7/20/03	0	55.3	82.8	8/20/03	0	54.5	86.8
4/21/03	.	.	.	5/21/03	0	42	55.3	6/21/03	0	48.6	76.8	7/21/03	0	64.8	75.2	8/21/03	0	62.4	91.3
4/22/03	.	.	.	5/22/03	0	34.6	62	6/22/03	0	49.8	83.2	7/22/03	.04	64.8	72.8	8/22/03	1.37	63.2	79.6
4/23/03	.	.	.	5/23/03	0	40.4	62	6/23/03	0	52.9	88.5	7/23/03	0	62	72	8/23/03	0	54.1	81
4/24/03	.	.	.	5/24/03	0	40	57.3	6/24/03	0	55.7	89.7	7/24/03	0	60.8	78.8	8/24/03	0	52.1	80
4/25/03	.	.	.	5/25/03	0	41.6	64.8	6/25/03	0	61.2	92.5	7/25/03	0	56.5	82.8	8/25/03	0	61.2	89.7
4/26/03	.	.	.	5/26/03	0	40.8	68.8	6/26/03	.58	64.8	91.3	7/26/03	0	60.8	82.4	8/26/03	.27	66	81.6
4/27/03	.	.	.	5/27/03	.3	42	68	6/27/03	0	58.8	77.2	7/27/03	.97	70.8	86.4	8/27/03	0	66	84
4/28/03	.	.	.	5/28/03	.01	49	70.4	6/28/03	0	56.1	83.6	7/28/03	0	56.5	71.2	8/28/03	0	58.4	86.8
4/29/03	.	.	.	5/29/03	0	51	76	6/29/03	.03	66	84.8	7/29/03	0	49	78	8/29/03	.18	72	83.2
4/30/03	.	.	.	5/30/03	0	49.4	73.6	6/30/03	.11	62.4	80.8	7/30/03	0	51.3	82.4	8/30/03	.02	53.7	80
				5/31/03	.53	47.4	60.4					7/31/03	0	60.8	82.4	8/31/03	.07	51.7	72

**Daily Weather Summary for 4/1/2004 to 8/31/2004 at OARDC - Vegetable Crops Research Branch, Fremont, OH**  
**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
4/1/04	0.05	31	41	5/1/04	0.23	56	64	6/1/04	0	54	77	7/1/04	0	52	83	8/1/04	0	52	83
4/2/04	0.37	31	45	5/2/04	0.86	36	65	6/2/04	0.05	53	78	7/2/04	0	58	86	8/2/04	0	58	83
4/3/04	0.01	30	55	5/3/04	0	32	48	6/3/04	0.08	48	72	7/3/04	0	55	80	8/3/04	0	62	88
4/4/04	0	29	59	5/4/04	0	28	51	6/4/04	0	48	73	7/4/04	0.29	68	86	8/4/04	0.24	64	88
4/5/04	0	22	45	5/5/04	0	33	62	6/5/04	0	42	69	7/5/04	0.55	65	85	8/5/04	0.19	52	72
4/6/04	0	22	47	5/6/04	0	40	66	6/6/04	0	51	72	7/6/04	0.07	59	84	8/6/04	0	44	74
4/7/04	0	28	61	5/7/04	0	44	87	6/7/04	0	58	78	7/7/04	0	62	88	8/7/04	0.02	45	75
4/8/04	0.13	29	63	5/8/04	0.29	39	57	6/8/04	0	62	85	7/8/04	0	59	84	8/8/04	0	53	79
4/9/04	0.12	35	64	5/9/04	0	46	76	6/9/04	0	68	91	7/9/04	0	48	75	8/9/04	0	54	81
4/10/04	0	31	56	5/10/04	0.13	57	87	6/10/04	0.59	64	91	7/10/04	0	55	81	8/10/04	0	63	82
4/11/04	0	37	53	5/11/04	0.04	59	87	6/11/04	0.64	57	73	7/11/04	0	59	82	8/11/04	0	53	79
4/12/04	0	32	46	5/12/04	0.16	59	82	6/12/04	0.93	52	64	7/12/04	0.13	68	89	8/12/04	0	44	78
4/13/04	0.13	32	46	5/13/04	0	63	85	6/13/04	0.36	53	77	7/13/04	0	65	86	8/13/04	0	52	71
4/14/04	0	29	46	5/14/04	0	63	83	6/14/04	0.61	62	86	7/14/04	0	64	89	8/14/04	0	45	68
4/15/04	0	30	56	5/15/04	0.56	48	80	6/15/04	0.74	62	84	7/15/04	0	56	79	8/15/04	0	48	74
4/16/04	0	33	69	5/16/04	0	45	55	6/16/04	0	64	84	7/16/04	0	51	82	8/16/04	0.69	48	74
4/17/04	0	50	78	5/17/04	0	45	67	6/17/04	0.44	65	80	7/17/04	0.1	60	86	8/17/04	0	49	77
4/18/04	0	70	81	5/18/04	0.16	55	81	6/18/04	0.03	63	87	7/18/04	0.22	59	76	8/18/04	0	55	80
4/19/04	0	60	84	5/19/04	0.55	51	82	6/19/04	0	62	78	7/19/04	0	54	78	8/19/04	0.44	60	82
4/20/04	0	39	89	5/20/04	0	52	68	6/20/04	0	46	69	7/20/04	0	56	82	8/20/04	0.96	58	70
4/21/04	0.01	39	65	5/21/04	0.17	58	84	6/21/04	0	52	73	7/21/04	0.18	63	86	8/21/04	0.61	48	65
4/22/04	0.25	39	72	5/22/04	0.69	56	84	6/22/04	0	58	80	7/22/04	0.24	66	88	8/22/04	0	46	75
4/23/04	0.13	40	54	5/23/04	0	66	85	6/23/04	0	45	78	7/23/04	0.2	65	90	8/23/04	0	56	79
4/24/04	0	35	60	5/24/04	0.12	62	83	6/24/04	0	52	80	7/24/04	0	49	75	8/24/04	0	58	85
4/25/04	0.2	45	62	5/25/04	0	46	70	6/25/04	0.31	50	84	7/25/04	0	55	72	8/25/04	0	59	85
4/26/04	0	45	73	5/26/04	0	49	81	6/26/04	0.19	45	66	7/26/04	0	58	68	8/26/04	0	67	86
4/27/04	0.02	31	66	5/27/04	0	47	75	6/27/04	0	46	74	7/27/04	0.26	56	70	8/27/04	0	69	86
4/28/04	0	24	45	5/28/04	0.11	54	81	6/28/04	0	55	77	7/28/04	0.02	54	65	8/28/04	0.16	55	83
4/29/04	0	34	71	5/29/04	0	38	61	6/29/04	0.2	47	73	7/29/04	0	53	79	8/29/04	0.27	49	86
4/30/04	0	56	80	5/30/04	0	49	71	6/30/04	0	52	79	7/30/04	0	56	79	8/30/04	0.46	58	71
				5/31/04	1.35	58	80					7/31/04	0.41	65	80	8/31/04	0	48	74

**Daily Weather Summary for 4/1/2004 to 8/31/2004 at OARDC, WOOSTER.**  
Wayne County, one mile south of Wooster; Latitude: 40° 47' N; Longitude: 81° 55' W; Elevation: 1020 ft.

APRIL				MAY				JUNE				JULY				AUGUST			
	Precip	Min. Temp	Max. Temp.		Precip	Min. Temp.	Max. Temp.		Precip	Min. Temp	Max. Temp		Precip	Min. Temp.	Max. Temp.		Precip.	Min. Temp	Max. Temp
Date	(in)	°F	°F	Date	(in)	°F	°F	Date	(in)	°F	°F	Date	(in)	°F	°F	Date	(in)	°F	°F
4/1/04	0.72	32.6	38.6	5/1/04	0.33	47.2	77.4	6/1/04	0.03	54.4	76.1	7/1/04	0	54.7	86.9	8/1/04	0.01	62.9	83.2
4/2/04	0.13	33	42	5/2/04	0.7	36.6	47.4	6/2/04	0	54.1	74.5	7/2/04	0	62.7	86.4	8/2/04	0	58.7	89.3
4/3/04	0.01	33.9	56.6	5/3/04	0.51	31.5	51.4	6/3/04	0	53.2	73.1	7/3/04	0	57.3	88.4	8/3/04	0	63.5	87
4/4/04	0.14	28.7	40	5/4/04	0	27	59.7	6/4/04	0	45.8	69.2	7/4/04	0.11	70.4	85.1	8/4/04	0.08	60.7	78.7
4/5/04	0	25.3	41.8	5/5/04	0	40.5	66	6/5/04	0	52.2	68.6	7/5/04	0	64	84.5	8/5/04	0	53.5	74.9
4/6/04	0	24	58.7	5/6/04	0	38.2	83.8	6/6/04	0	54.9	78.4	7/6/04	0	61.8	86.6	8/6/04	0	46.6	71.4
4/7/04	0	40.4	53.2	5/7/04	0.28	43.6	71.7	6/7/04	0	54.1	83.8	7/7/04	0.81	61.4	80.4	8/7/04	0.01	49.8	75.1
4/8/04	0.08	39.9	64.5	5/8/04	0	41.2	81.3	6/8/04	0	58.5	88.7	7/8/04	0	56.6	75.3	8/8/04	0	54.8	80.1
4/9/04	0	38.2	55.7	5/9/04	0	55.2	85.6	6/9/04	0.27	66.5	90.4	7/9/04	0	52.8	84.7	8/9/04	0	55	81
4/10/04	0	31.6	54.6	5/10/04	0	58.2	85.1	6/10/04	0.6	65.2	74.1	7/10/04	0.01	61.8	87.8	8/10/04	0	63	81.2
4/11/04	0	38	52.7	5/11/04	0.17	57.4	85.9	6/11/04	1.41	52.6	65.2	7/11/04	0.02	62.5	86.5	8/11/04	0	55.1	71.4
4/12/04	0.66	34.3	48.5	5/12/04	0.01	58.1	85.9	6/12/04	0.03	52.5	78.2	7/12/04	0.16	68.8	84.8	8/12/04	0	54	70.7
4/13/04	0.56	36.5	39.9	5/13/04	0	59.7	86.8	6/13/04	1.02	64.7	86.4	7/13/04	0.01	67.6	86.6	8/13/04	0.11	56.1	67.2
4/14/04	0.11	33.6	52.3	5/14/04	0.1	64.8	83.5	6/14/04	0.53	64.4	85.8	7/14/04	0.1	62.7	75.9	8/14/04	0	47.4	73.4
4/15/04	0	29.6	66.3	5/15/04	0.47	49.1	70	6/15/04	1.31	66	85.2	7/15/04	0	61.3	78.2	8/15/04	0	50.4	77.2
4/16/04	0	38.4	76.3	5/16/04	0	46.7	65.7	6/16/04	0.01	65.9	79.7	7/16/04	0	55.8	84.7	8/16/04	0	50.3	78.6
4/17/04	0.24	51.2	77.7	5/17/04	0.52	47.3	83.6	6/17/04	0.51	66.8	86.3	7/17/04	0.06	63.3	69.1	8/17/04	0	50.3	80.2
4/18/04	0	59.6	81.3	5/18/04	0.73	60.7	80.6	6/18/04	0	66	77.7	7/18/04	0.04	62	77.7	8/18/04	0.94	62.4	83.3
4/19/04	0.04	54	72.2	5/19/04	0.05	56.6	75.3	6/19/04	0.02	42	67.9	7/19/04	0.01	59.7	79.3	8/19/04	0.72	65.4	81.4
4/20/04	0	41.3	68.9	5/20/04	0	60.3	83.2	6/20/04	0	43.3	72.3	7/20/04	0.31	57.3	83.9	8/20/04	1.82	59.3	72.6
4/21/04	0.36	58.3	71.6	5/21/04	2.54	59.5	85.3	6/21/04	0.02	49.7	76.8	7/21/04	0	63.7	86.3	8/21/04	0.04	48.9	71.9
4/22/04	0.6	49.2	60.1	5/22/04	0.08	62.3	84.7	6/22/04	0.01	61.7	78.9	7/22/04	0.02	70.3	86.7	8/22/04	0	44.6	78.7
4/23/04	0	43.8	61.2	5/23/04	0	68.8	84.9	6/23/04	0	50.4	78.5	7/23/04	0.01	56.2	74.9	8/23/04	0	53.4	83.5
4/24/04	0	38.2	67.7	5/24/04	0.27	53.9	78.1	6/24/04	0.38	56.9	83.7	7/24/04	0	51.2	76.1	8/24/04	0.05	56.7	85.3
4/25/04	0.01	49.5	70.8	5/25/04	0.05	49.1	81.3	6/25/04	0	55.1	63.3	7/25/04	0	54	73.3	8/25/04	0	67.6	84.4
4/26/04	0.05	47	62.9	5/26/04	0	56.6	74.4	6/26/04	0	48.1	72.5	7/26/04	0.6	59.9	72.2	8/26/04	0.05	67.6	78.1
4/27/04	0.03	33	48	5/27/04	0	53.2	77.8	6/27/04	0	49.9	75.7	7/27/04	0.06	60.9	74.6	8/27/04	0.15	71	87.7
4/28/04	0	28.7	67.5	5/28/04	0.01	42	67.1	6/28/04	0.2	52.2	69.3	7/28/04	0	57.7	75.8	8/28/04	0.51	66.9	86.8
4/29/04	0	55.5	77	5/29/04	0	39.1	70.5	6/29/04	0.01	49.2	77.9	7/29/04	0.01	53.2	82.1	8/29/04	0.38	65.6	82.7
4/30/04	0.26	50.3	64.6	5/30/04	0.39	53.1	78.6	6/30/04	0	53.6	83.9	7/30/04	0.28	63	85.3	8/30/04	0.01	54.4	70
				5/31/04	0.7	59.5	76.2					7/31/04	1	69.2	82.4	8/31/04	0	50.7	77.6

**Daily Weather Summary for 4/1/2004 to 8/31/2004 at OARDC - Muck Crops Research Branch, Celeryville, OH.  
Huron County, Latitude: 41° 01' N; Longitude: 82° 44' W.**

APRIL				MAY				JUNE				JULY				AUGUST			
	Precip	Min. Temp	Max. Temp.		Precip	Min. Temp.	Max. Temp.		Precip	Min. Temp	Max. Temp		Precip	Min. Temp.	Max. Temp.		Precip.	Min. Temp	Max. Temp
Date	(in)	°F	°F	Date	(in)	°F	°F	Date	(in)	°F	°F	Date	(in)	°F	°F	Date	(in)	°F	°F
4/1/04	.	.	.	5/1/04	.36	43.7	68.4	6/1/04	.	.	.	7/1/04	0	53.0	84.9	8/1/04	.01	58	82.3
4/2/04	.	.	.	5/2/04	.77	34.6	43.7	6/2/04	.	.	.	7/2/04	0	60.3	86.2	8/2/04	0	58.7	86.6
4/3/04	.	.	.	5/3/04	0	32.2	48.8	6/3/04	.	.	.	7/3/04	0	56.1	84.2	8/3/04	0	64.9	86.6
4/4/04	.	.	.	5/4/04	0	30.6	59.4	6/4/04	.	.	.	7/4/04	.01	69.2	85.7	8/4/04	.37	64.2	73.2
4/5/04	.	.	.	5/5/04	0	52.4	56.6	6/5/04	.	.	.	7/5/04	0	64.5	84.7	8/5/04	0	52.4	72.5
4/6/04	.	.	.	5/6/04	.	.	.	6/6/04	.	.	.	7/6/04	0	60.4	85.3	8/6/04	0	44.5	72.5
4/7/04	.	.	.	5/7/04	.	.	.	6/7/04	.	.	.	7/7/04	.16	62	84.2	8/7/04	0	47.4	76.0
4/8/04	.	.	.	5/8/04	.	.	.	6/8/04	.	.	.	7/8/04	0	57.9	78	8/8/04	0	55.9	80.2
4/9/04	.	.	.	5/9/04	.	.	.	6/9/04	.	.	.	7/9/04	0	64.9	83	8/9/04	0	54.5	81.6
4/10/04	.	.	.	5/10/04	.	.	.	6/10/04	.	.	.	7/10/04	0	64.2	87.4	8/10/04	0	60.8	80.2
4/11/04	.	.	.	5/11/04	.	.	.	6/11/04	.	.	.	7/11/04	0	62.8	87.4	8/11/04	0	53.8	72.5
4/12/04	.	.	.	5/12/04	.	.	.	6/12/04	.	.	.	7/12/04	.11	70.4	87.4	8/12/04	0	45.2	69.7
4/13/04	.	.	.	5/13/04	.	.	.	6/13/04	.	.	.	7/13/04	.01	67.7	87.4	8/13/04	0	52.4	67.0
4/14/04	.	.	.	5/14/04	.	.	.	6/14/04	.	.	.	7/14/04	.33	63.5	79.5	8/14/04	0	44.5	73.2
4/15/04	.	.	.	5/15/04	.	.	.	6/15/04	.	.	.	7/15/04	0	59.4	80.2	8/15/04	.17	48.8	73.9
4/16/04	.	.	.	5/16/04	.	.	.	6/16/04	.	.	.	7/16/04	0	52.4	85.9	8/16/04	.01	46.7	77.4
4/17/04	.	.	.	5/17/04	.	.	.	6/17/04	.	.	.	7/17/04	.19	62.8	74.6	8/17/04	0	49.6	79.5
4/18/04	.	.	.	5/18/04	.	.	.	6/18/04	.	.	.	7/18/04	0	60.8	76.7	8/18/04	.57	62.2	82.3
4/19/04	.	.	.	5/19/04	.	.	.	6/19/04	.	.	.	7/19/04	.01	55.9	81.6	8/19/04	.89	65.6	72.5
4/20/04	.	.	.	5/20/04	.	.	.	6/20/04	0	44.5	72.8	7/20/04	.32	56.6	84.5	8/20/04	.93	57.3	66.3
4/21/04	.	.	.	5/21/04	.	.	.	6/21/04	0	69.7	78.1	7/21/04	0	65.6	87.4	8/21/04	.03	51.7	69.0
4/22/04	.	.	.	5/22/04	.	.	.	6/22/04	.18	30.1	78.8	7/22/04	.61	68.4	85.9	8/22/04	0	46.7	77.4
4/23/04	.	.	.	5/23/04	.	.	.	6/23/04	0	46.7	78.1	7/23/04	.01	56.6	72.5	8/23/04	0	55.2	83.0
4/24/04	.	.	.	5/24/04	.	.	.	6/24/04	.46	58	85.2	7/24/04	0	46.7	71.1	8/24/04	0	55.9	83.7
4/25/04	.	.	.	5/25/04	.	.	.	6/25/04	.07	52.4	62.2	7/25/04	0	56.6	69	8/25/04	0	67.7	85.2
4/26/04	.	.	.	5/26/04	.	.	.	6/26/04	.01	45.9	73.2	7/26/04	.41	59.4	72.5	8/26/04	0	69.7	82.3
4/27/04	.	.	.	5/27/04	.	.	.	6/27/04	0	49.6	76.7	7/27/04	.02	59.4	66.3	8/27/04	.24	70.4	88.1
4/28/04	.	.	.	5/28/04	.	.	.	6/28/04	.16	54.5	69	7/28/04	0	56.6	77.4	8/28/04	1.78	67.7	85.9
4/29/04	.	.	.	5/29/04	.	.	.	6/29/04	.01	50.3	78.1	7/29/04	0	51.7	78.8	8/29/04	.02	64.2	74.6
4/30/04	.	.	.	5/30/04	.	.	.	6/30/04	0	54.5	83.7	7/30/04	.01	62.2	83.7	8/30/04	0	55.2	70.4
				5/31/04	.	.	.					7/31/04	1.59	67	81.6	8/31/04	0	50.3	76.0

# The Ohio State University

## APPLE OF PERU CORN HERBICIDE PERFORMANCE TRIAL

Trial ID: AOPCHPTRIAL 2004

Study Dir: Joel Felix

Location: Fremont, Ohio

Investigator: Douglas Doohan

### TRIAL LOCATION

City: Fremont

Trial Status: Final

State/Prov: Ohio

Trial Reliability: Reliable

Postal Code: 43420

Initiation Date: 06/01/04

Country: USA

Planned Completion Date: 12/01/04

Objective: To evaluate Apple of Peru response to POST field corn herbicides.

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	NICPH	Apple of Peru	<i>Nicandra physalodes</i> (L.) Gaertner

Planting Date: 05/15/04

Planting Method: CONVENTIONAL

Rate: 26 K/A

Depth: 2 IN

Row Spacing: 30 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

**Trial Initiation Comments:** Trial was laid out in a farmer's field on June 1, 2004. Corn was at 5 collar stage. Treatments sprayed across field header rows on June 1, 2004. Surrounding area was sprayed with Accent + Atrazine using a backpack sprayer.

### APPLICATION DESCRIPTION

A

Application Date: 6/1/2004

Time of Day: 2-3 PM

Application Method: SPRAY

Application Timing: POST

Applic. Placement: BROADCAST

Air Temp., Unit: 81 F

% Relative Humidity: 42

Wind Velocity, Unit: 9 MPH

Dew Presence (Y/N): N

Water Hardness: SOFT

Soil Moisture: MOIST

% Cloud Cover: 0

### CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage: ZEAMX POST

Stage Scale: 5 COLLAR

Height, Unit: 12 IN

# The Ohio State University

## APPLE OF PERU CORN HERBICIDE PERFORMANCE TRIAL

### WEED STAGE AT EACH APPLICATION

A

Weed 1 Code, Stage: NICPH POST  
Stage Scale: 5 LEAF  
Density, Unit: MEDIUM

### APPLICATION EQUIPMENT

A

Appl. Equipment: CO2 BACKPACK  
Operating Pressure: 40 PSI  
Nozzle Type: FLAT FAN  
Nozzle Size: 8002VS  
Nozzle Spacing, Unit: 30 IN  
Nozzles/Row: 1  
Boom Height, Unit: 18 IN  
Ground Speed, Unit: 3 MPH  
Spray Volume, Unit: 25 GPA

### Trial Comments

"NEW GERM" = New germination; percent of plot with *Nicandra physalodes* at mid-season evaluation.

- 1 = 0 - 10% of plot with new seedlings
- 2 = 11 - 20% of plot with new seedlings
- 3 = 21 - 54% of plot with new seedlings
- 4 = > 55% of plot with new seedlings
- 5 = > 75% of plot with new seedlings



# The Ohio State University

## APPLE OF PERU CORN HERBICIDE PERFORMANCE TRIAL

Trial ID: AOPCHPTRIAL 2004

Study Dir: Joel Felix

Location: Fremont, Ohio

Investigator: Douglas Doohan

Weed Code	NICPH	NICPH	NICPH	NICPH	NICPH	NICPH	NICPH			
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX			
Part Rated	WEED	WEED	WEED	WEED	WEED	WEED	WEED			
Rating Data Type	CHLOROSIS	STUNT	INJURY	CHLOROSIS	STUNT	INJURY	CHLOROSIS			
Rating Unit	%	%	%	%	%	%	%			
Rating Date	6/8/04	6/8/04	6/8/04	7/1/04	7/1/04	7/1/04	7/8/04			
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6	7
UNTREATED CONTROL				0	0	0	0	0	0	0
BASIS [Rims+Thifen]	0.33	OZ/A	POST	11	35	41	0	36	36	0
NIS	2	QT/A	POST							
28% UAN	4	QT/A	POST							
CLARITY [ Dicamba]	16	OZ/A	POST	61	86	91	0	95	95	0
28% UAN	0.6	QT/A	POST							
DISTINCT	6	OZ/A	POST	55	83	90	0	99	99	0
NIS	0.4	PT/A	POST							
28% UAN	2	PT/A	POST							
2,4-D AMINE	1	PT/A	POST	0	74	74	0	96	96	0
BUCTRIL	1	PT/A	POST	0	99	99	0	96	96	0
PERMIT	1	OZ/A	POST	9	48	48	0	44	44	0
NIS	4	PT/A	POST							
BASAGRAN	2	PT/A	POST	0	99	99	0	95	95	0
COC	1.6	PT/A	POST							
BASAGRAN	1.5	PT/A	POST	0	99	99	0	99	99	0
ATRAZINE	1	QT/A	POST							
28% UAN	2	PT/A	POST							
STINGER	0.66	PT/A	POST	1	88	88	0	95	95	0

# The Ohio State University

## APPLE OF PERU CORN HERBICIDE PERFORMANCE TRIAL

Trial ID: AOPCHPTRIAL 2004

Study Dir: Joel Felix

Location: Fremont, Ohio

Investigator: Douglas Doohan

Weed Code				NICPH	NICPH	NICPH	NICPH	NICPH	NICPH	NICPH
Crop Code				ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CHLOROSIS	STUNT	INJURY	CHLOROSIS	STUNT	INJURY	CHLOROSIS
Rating Unit				%	%	%	%	%	%	%
Rating Date				6/8/04	6/8/04	6/8/04	7/1/04	7/1/04	7/1/04	7/8/04
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6	7
HARMONY GT	0.5	OZ/A	POST	30	64	81	0	70	70	0
COC	0.8	QT/A	POST							
ATRAZINE	1	QT/A	POST	0	99	99	0	99	99	0
COC	0.8	QT/A	POST							
PERMIT	1.03	OZ/A	POST	51	85	88	0	70	70	0
DICAMBA	6.8	OZ/A	POST							
NIS	1	QT/A	POST							
28% UAN	2	QT/A	POST							
STINGER	0.51	OZ/A	POST	0	88	89	0	91	91	0
STARANE	0.126	PT/A	POST							
NIS	1	PT/A	POST							
LSD (P=.05)				17	18	15	0	37	37	0
Standard Deviation				12	12	11	0	26	26	0
CV				78	17	14	0	34	34	0

# The Ohio State University

## APPLE OF PERU CORN HERBICIDE PERFORMANCE TRIAL

Trial ID: AOPCHPTRIAL 2004

Study Dir: Joel Felix

Location: Fremont, Ohio

Investigator: Douglas Doohan

Weed Code	NICPH	NICPH	NICPH	NICPH	NICPH	NICPH
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Part Rated	WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type	STUNT	INJURY	CHLOROSIS	STUNT	INJURY	NEW GERM
Rating Unit	%	%	%	%	%	1-5
Rating Date	7/8/04	7/8/04	7/26/04	7/26/04	7/26/04	8/12/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	8	9	10	11	12	13
UNTREATED CONTROL				0	0	0	0	0	5
BASIS [Rims+Thifen]	0.33	OZ/A	POST	24	24	0	36	36	4
NIS	2	QT/A	POST						
28% UAN	4	QT/A	POST						
CLARITY [ Dicamba]	16	OZ/A	POST	99	99	0	95	95	2
28% UAN	0.6	QT/A	POST						
DISTINCT	6	OZ/A	POST	74	74	0	99	99	3
NIS	0.4	PT/A	POST						
28% UAN	2	PT/A	POST						
2,4-D AMINE	1	PT/A	POST	74	74	0	90	90	3
BUCTRIL	1	PT/A	POST	99	99	0	96	96	3
PERMIT	1	OZ/A	POST	40	40	0	44	44	4
NIS	4	PT/A	POST						
BASAGRAN	2	PT/A	POST	91	91	0	95	95	2
COC	1.6	PT/A	POST						
BASAGRAN	1.5	PT/A	POST	99	99	0	99	99	2
ATRAZINE	1	QT/A	POST						
28% UAN	2	PT/A	POST						
STINGER	0.66	PT/A	POST	95	95	0	95	95	3

# The Ohio State University

## APPLE OF PERU CORN HERBICIDE PERFORMANCE TRIAL

Trial ID: AOPCHPTRIAL 2004

Study Dir: Joel Felix

Location: Fremont, Ohio

Investigator: Douglas Doohan

Weed Code	NICPH	NICPH	NICPH	NICPH	NICPH	NICPH
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Part Rated	WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type	STUNT	INJURY	CHLOROSIS	STUNT	INJURY	NEW GERM
Rating Unit	%	%	%	%	%	1-5
Rating Date	7/8/04	7/8/04	7/26/04	7/26/04	7/26/04	8/12/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	8	9	10	11	12	13
HARMONY GT	0.5	OZ/A	POST	59	59	0	61	61	4
COC	0.8	QT/A	POST						
ATRAZINE	1	QT/A	POST	99	99	0	99	99	2
COC	0.8	QT/A	POST						
PERMIT	1.03	OZ/A	POST	85	85	0	70	70	2
DICAMBA	6.8	OZ/A	POST						
NIS	1	QT/A	POST						
28% UAN	2	QT/A	POST						
STINGER	0.51	OZ/A	POST	73	73	0	74	74	4
STARANE	0.126	PT/A	POST						
NIS	1	PT/A	POST						
LSD (P=.05)				36	36	0	37	37	1
Standard Deviation				26	26	0	26	26	1
CV				35	35	0	34	34	17

# The Ohio State University

## APPLE OF PERU RESPONSE TO POST GLYPHOSATE APPLICATION ON SOYBEAN

Trial ID: AOPSOYHTRIAL 2004

Study Dir: Joel Felix

Location: Fremont, Ohio

Investigator: Douglas Doohan

### TRIAL LOCATION

City: Fremont

Trial Status: Final

State/Prov: Ohio

Trial Reliability: Reliable

Postal Code: 43420

Initiation Date: 06/01/04

Country: USA

Planned Completion Date: 12/01/04

Objective: To evaluate Apple of Peru response to POST glyphosate applications on soybeans.

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	NICPH	Apple of Peru	<i>Nicandra physalodes</i> (L.) Gaertner

Crop 1: GLXMA SOYBEAN

Variety: RR SOYBEAN

Planting Method: CONVENTIONAL

Depth: 0.50 IN

Seed Bed: CONVENTIONAL

### SITE AND DESIGN

Plot Width, Unit: 10 FT

Plot Length, Unit: 30 FT

Site Type: LEVEL FIELD

Reps: 3

Tillage Type: CONVENTIONAL

Study Design: RANDOMIZED COMPLETE BLOCK

### APPLICATION DESCRIPTION

A

Application Date: 7/9/2004

Time of Day: 10 AM

Application Method: SPRAY

Application Timing: POST

Applic. Placement: BROADCAST

Air Temp., Unit: 60 F

% Cloud Cover: 0

### CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage: GLXMA POST

Stage Scale: V5-V6

Height, Unit: 15 CM

### WEED STAGE AT EACH APPLICATION

A

Weed 1 Code, Stage: NICPH POST

Stage Scale: 3-5 LEAF

Density, Unit: 8 SQUARE M

### APPLICATION EQUIPMENT

A

Appl. Equipment: CO2 BACKPACK

Operating Pressure: 35 PSI

Nozzle Type: FLAT FAN

Nozzle Size: 8002VS

Boom Height, Unit: 12 IN

Ground Speed, Unit: 3 MPH

Spray Volume, Unit: 25 GPA

# The Ohio State University

## APPLE OF PERU RESPONSE TO POST GLYPHOSATE APPLICATION ON SOYBEAN

Trial ID: AOPSOYHTRIAL 2004

Study Dir: Joel Felix

Location: Fremont, Ohio

Investigator: Douglas Doohan

Weed Code	NICPH	NICPH	NICPH	NICPH	NICPH	NICPH	NICPH	NICPH	NICPH
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Part Rated	WEED	WEED	WEED	WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type	CHLOROSIS	STUNT	INJURY	CONTROL	STUNT	INJURY	CONTROL	STUNT	
Rating Unit	%	%	%	%	%	%	%	%	%
Rating Date	7/16/04	7/16/04	7/16/04	7/23/04	7/23/04	8/13/04	8/13/04	8/13/04	8/13/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6	7	8
CONTROL				0	0	0	0	0	0	0	0
ROUNDUP W/M	11	OZ/A	POST	28	90	0	85	85	0	83	83
ROUNDUP W/M	22	OZ/A	POST	33	99	0	99	99	0	99	99
ROUNDUP W/M	44	OZ/A	POST	66	99	0	99	99	0	99	99
ROUNDUP W/M	110	OZ/A	POST	66	99	0	99	99	0	99	99
ROUNDUP W/M	22	OZ/A	POST	33	99	0	99	99	0	99	99
ROUNDUP W/M	22	OZ/A	POST								
ROUNDUP W/M	22	OZ/A	POST	33	99	0	99	99	0	99	99
ROUNDUP W/M	22	OZ/A	POST	33	99	0	99	99	0	99	99
AMS	2.5	% V/V	POST								
	LSD (P=.05)			58	5	0	6	6	0	5	5
	Standard Deviation			33	3	0	3	3	0	3	3
	CV			88	4	0	4	4	0	3	3

# The Ohio State University

## APPLES - SINBAR TOLERANCE AND WEED CONTROL

Trial ID: APPLTOLWCWOOS2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

### TRIAL LOCATION

City: Wooster

Trial Status: Final

State/Prov: Ohio

Trial Reliability: Reliable

Postal Code: 44691

Initiation Date: 04/15/04

Country: USA

Planned Completion Date: 12/01/04

Objective: Demonstrate crop safety for Sinbar, on second year apple trees when applied to soils with less than 3% organic matter.

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	AGRASS	annual grasses (various)	<i>Panicum</i> spp. and <i>Digitaria</i> spp.
2	AMBEL	common ragweed	<i>Ambrosia artemesifolia</i> L.
3	POLPY	Pennsylvania smartweed	<i>Polygonum pensylvanicum</i> L.
4	CIRAR	Canada thistle	<i>Cirsium arvense</i> (L.) Scop.
5	SOLPT	Eastern black nightshade	<i>Solanum ptycanthum</i>
6	VERPG	purslane speedwell	<i>Veronica peregrina</i> L.
7	STEME	common chickweed	<i>Stellaria media</i> (L.) Vill.
8	AMAXX	pigweed species	<i>Amaranthus</i> spp.
9	TAROF	dandelion	<i>Taraxacum officinale</i> Weber
10	OXAST	yellow woodsorrel	<i>Oxalis stricta</i> L.
11	SENVU	common groundsel	<i>Senecio vulgaris</i> L.
12	DIGSA	large crabgrass	<i>Digitaria sanguinalis</i> (L.) Scop.
13	PANDI	fall panicum	<i>Panicum dichotomiflorum</i> Michx.

Crop 1: MABSD APPLE

Variety: "GIBSON" GOLDEN DELICIOUS

Planting Date: 04/15/03

Planting Method: BARE ROOT TRANSPLANT

Rate: 388 TREES/A

Depth: 18 IN

Row Spacing: 2.5 x 4.5 METERS

Seed Bed: CONVENTIONAL

Soil Moisture: MOIST

Perennial Age: 2 YR

### SITE AND DESIGN

Plot Width, Unit: 6 FT

Plot Length, Unit: 10 FT

Site Type: LEVEL FIELD

Reps: 4

Tillage Type: NONE

Study Design: RANDOMIZED COMPLETE BLOCK

### SOIL DESCRIPTION

% Sand: 15.5

% OM: 3.11

Texture: SILT LOAM

% Silt: 69.8

pH: 6.86

Soil Name: WOOSTER SILT LOAM

% Clay: 11.6

CEC: 14

Fert. Level: MODERATE

Overall Moisture Conditions: MOIST

# The Ohio State University

## APPLES - SINBAR TOLERANCE AND WEED CONTROL

### APPLICATION DESCRIPTION

A  
Application Date: 4/15/2004  
Time of Day: 8-9 AM  
Application Method: SPRAY  
Application Timing: PRE  
Applic. Placement: BROADCAST  
Air Temp., Unit: 46 F  
% Relative Humidity: 58  
Wind Velocity, Unit: 0 MPH  
Soil Moisture: MOIST  
% Cloud Cover: 0

### CROP STAGE AT EACH APPLICATION

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

### APPLICATION EQUIPMENT

A  
Appl. Equipment: CO2 BACKPACK  
Operating Pressure: 35  
Nozzle Type: FLAT FAN  
Nozzle Size: 8002VS  
Nozzle Spacing, Unit: 18 IN  
Nozzles/Row: 2  
Band Width, Unit: 2.5 FT  
Boom Height, Unit: 15 IN  
Ground Speed, Unit: 3 MPH  
Carrier: WATER  
Spray Volume, Unit: 25 GPA

### Trial Comments

Thistles were scattered throughout the trial area; not consistent from plot to plot. On injury ratings, " % burn " refers to leaf necrosis. In reference to the rating on 4/15; the buds were at silver tip to 0.25" green.



# The Ohio State University

## APPLES - SINBAR TOLERANCE AND WEED CONTROL

Trial ID: APPLTOLWCWOOS2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code								AGRASS	POLPY
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				BARK	LEAVES	LEAVES	LEAVES	WEED	WEED
Rating Data Type				DAMAGE	STUNT	CHLOROSIS	BURN	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				4/15/04	5/12/04	5/12/04	5/12/04	5/12/04	5/12/04
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
SINBAR	0.5	LB/A	PRE	4	0	0	0	83	94
SINBAR	1	LB/A	PRE	1	0	0	0	85	99
SINBAR	2	LB/A	PRE	1	0	0	0	96	99
SINBAR	4	LB/A	PRE	15	4	3	0	99	99
SOLICAM	4.37	LB/A	PRE	4	0	0	0	98	89
CONTROL				0	0	0	0	0	0
LSD (P=.05)				8	2	2	0	4	8
Standard Deviation				6	1	1	0	3	6
CV				131	163	283	0	4	7

# The Ohio State University

## APPLES - SINBAR TOLERANCE AND WEED CONTROL

Trial ID: APPLTOLWCWOOS2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code	AMBEL	CIRAR	VERPG	SOLPT	OXAL	SENVU
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	5/12/04	5/12/04	5/12/04	5/12/04	5/12/04	5/12/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
SINBAR	0.5	LB/A	PRE	98	51	99	99	99	90
SINBAR	1	LB/A	PRE	99	85	99	99	99	98
SINBAR	2	LB/A	PRE	99	96	99	99	99	99
SINBAR	4	LB/A	PRE	99	93	99	99	99	99
SOLICAM	4.37	LB/A	PRE	99	91	99	99	99	99
CONTROL				0	0	0	0	0	0
LSD (P=.05)				1	28	0	0	0	7
Standard Deviation				1	18	0	0	0	4
CV				1	27	0	0	0	6

# The Ohio State University

## APPLES - SINBAR TOLERANCE AND WEED CONTROL

Trial ID: APPLTOLWCWOOS2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code				AGRASS	POLPY	AMBEL
Crop Code	MABSD	MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated	LEAVES	LEAVES	LEAVES	WEED	WEED	WEED
Rating Data Type	STUNT	CHLOROSIS	BURN	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%
Rating Date	6/9/04	6/9/04	6/9/04	6/9/04	6/9/04	6/9/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17	18
SINBAR	0.5	LB/A	PRE	0	0	0	25	99	99
SINBAR	1	LB/A	PRE	0	0	0	63	99	99
SINBAR	2	LB/A	PRE	0	0	0	95	99	99
SINBAR	4	LB/A	PRE	9	3	4	99	99	99
SOLICAM	4.37	LB/A	PRE	0	0	0	74	81	99
CONTROL				0	0	0	0	0	0
LSD (P=.05)				4	3	5	39	5	0
Standard Deviation				3	2	3	26	3	0
CV				176	490	490	44	4	0

# The Ohio State University

## APPLES - SINBAR TOLERANCE AND WEED CONTROL

Trial ID: APPLTOLWCWOOS2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code	CIRAR	VERPG	SOLPT	STEME	TRFRE	OXAST
Crop Code	MABSD	MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated	WEED	WEED	WEED	LEAVES	WEED	WEED
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%
Rating Date	6/9/04	6/9/04	6/9/04	6/9/04	6/9/04	6/9/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19	20	21	22	23	24
SINBAR	0.5	LB/A	PRE	34	99	99	99	99	94
SINBAR	1	LB/A	PRE	79	99	99	99	99	99
SINBAR	2	LB/A	PRE	92	99	99	99	99	99
SINBAR	4	LB/A	PRE	88	99	99	99	99	99
SOLICAM	4.37	LB/A	PRE	59	99	99	99	78	94
CONTROL				0	0	0	0	0	0
LSD (P=.05)				35	0	0	0	26	7
Standard Deviation				23	0	0	0	17	5
CV				39	0	0	0	22	6

# The Ohio State University

## APPLES - SINBAR TOLERANCE AND WEED CONTROL

Trial ID: APPLTOLWCWOOS2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code	CHEAL	SENVU		TAROF	AGRASS	POLPY
Crop Code	MABSD	MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated	WEED	WEED	LEAVES	WEED	WEED	WEED
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%
Rating Date	6/9/04	6/9/04	7/7/04	7/7/04	7/7/04	7/7/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	25	26	27	28	29	30
SINBAR	0.5	LB/A	PRE	99	42	0	99	0	99
SINBAR	1	LB/A	PRE	99	99	0	99	35	99
SINBAR	2	LB/A	PRE	99	99	0	99	84	99
SINBAR	4	LB/A	PRE	99	99	0	99	98	99
SOLICAM	4.37	LB/A	PRE	99	99	0	96	99	99
CONTROL				0	0	0	0	0	0
LSD (P=.05)				0	26	0	4	17	0
Standard Deviation				0	17	0	3	11	0
CV				0	24	0	3	21	0

# The Ohio State University

## APPLES - SINBAR TOLERANCE AND WEED CONTROL

Trial ID: APPLTOLWCWOOS2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code	AMBEL	CIRAR	SENVU	AMAXX	OXALIS	
Crop Code	MABSD	MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated	WEED	WEED	WEED	WEED	WEED	LEAVES
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	STUNT
Rating Unit	%	%	%	%	%	%
Rating Date	7/7/04	7/7/04	7/7/04	7/7/04	7/7/04	8/18/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	31	32	33	34	35	36
SINBAR	0.5	LB/A	PRE	99	40	65	50	99	1
SINBAR	1	LB/A	PRE	99	43	64	94	99	3
SINBAR	2	LB/A	PRE	99	81	88	99	99	3
SINBAR	4	LB/A	PRE	99	95	98	99	99	3
SOLICAM	4.37	LB/A	PRE	99	59	74	93	94	3
CONTROL				0	0	0	0	0	0
LSD (P=.05)				0	40	37	35	6	5
Standard Deviation				0	27	25	23	4	3
CV				0	50	38	32	5	177

# The Ohio State University

## APPLES - SINBAR TOLERANCE AND WEED CONTROL

Trial ID: APPLTOLWCWOOS2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code			TAROF	AGRASS	POLPY	AMBEL
Crop Code	MABSD	MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated	LEAVES	LEAVES	WEED	WEED	WEED	WEED
Rating Data Type	CHLOROSIS	BURN	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%
Rating Date	8/18/04	8/18/04	8/18/04	8/18/04	8/18/04	8/18/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	37	38	39	40	41	42
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SINBAR	0.5	LB/A	PRE	3	0	73	0	72	99
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SINBAR	1	LB/A	PRE	5	3	99	0	97	99
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SINBAR	2	LB/A	PRE	0	0	99	35	97	99
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SINBAR	4	LB/A	PRE	1	3	99	94	99	99
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SOLICAM	4.37	LB/A	PRE	0	0	99	86	6	99
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CONTROL				0	0	0	0	0	0
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LSD (P=.05)	6	3	30	22	29	0
Standard Deviation	4	2	20	15	20	0
CV	275	200	26	41	32	0

# The Ohio State University

## APPLES - SINBAR TOLERANCE AND WEED CONTROL

Trial ID: APPLTOLWCWOOS2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code	CIRAR	SENVU	AMAXX	TAROF	DIGSA	AMBEL
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	8/18/04	8/18/04	8/18/04	10/12/04	10/12/04	10/12/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	43	44	45	46	47	48
SINBAR	0.5	LB/A	PRE	0	72	50	0	0	99
SINBAR	1	LB/A	PRE	5	53	74	0	0	99
SINBAR	2	LB/A	PRE	72	46	95	0	99	99
SINBAR	4	LB/A	PRE	95	96	99	99	99	99
SOLICAM	4.37	LB/A	PRE	24	92	77	0	99	99
CONTROL				0	0	0	0	0	0
LSD (P=.05)				40	47	46	0	0	0
Standard Deviation				27	31	30	0	0	0
CV				82	52	46	0	0	0



# The Ohio State University

## APPLES - SINBAR TOLERANCE AND WEED CONTROL

Trial ID: APPLTOLWCWOOS2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code	PANDI	POLPY	CIRAR	SENVU	AMAXX	OXAST
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	10/12/04	10/12/04	10/12/04	10/12/04	10/12/04	10/12/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	49	50	51	52	53	54
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SINBAR	0.5	LB/A	PRE	0	99	0	99	99	99
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SINBAR	1	LB/A	PRE	0	99	0	99	99	99
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SINBAR	2	LB/A	PRE	0	99	0	99	99	99
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SINBAR	4	LB/A	PRE	83	99	70	99	99	99
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SOLICAM	4.37	LB/A	PRE	89	0	0	0	0	0
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CONTROL				0	0	0	0	0	0
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LSD (P=.05)	7	0	10	0	0	0
Standard Deviation	4	0	7	0	0	0
CV	15	0	57	0	0	0

# The Ohio State University

## GREENS - POST HERBICIDE TOLERANCE & WEED CONTROL 1

Trial ID: GREENHTWCCEL 2004 Study Dir: Douglas Doohan and T. Koch

Location: Celeryville, Ohio Investigator: Douglas Doohan

### TRIAL LOCATION

City: South Willard Trial Status: Final  
State/Prov: Ohio Trial Reliability: Reliable  
Postal Code: 44890 Initiation Date: 07/02/04  
Planned Completion Date: 12/01/04

Objective: To assess crop tolerance and weed control using various POST herbicide applications.

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	POROL	common purslane	<i>Portulaca oleracea</i> L.
2	AMARE	redroot pigweed	<i>Amaranthus retroflexus</i>
3	AMAXX	pigweed species	<i>Amaranth</i> spp.
4	AGRASS	crabgrass species	<i>Digitaria</i> spp.
5	AMABL	prostrate pigweed	<i>Amaranthus blitoides</i> S.Wats.
6	CHEAL	common lambsquarter	<i>Chenopodium album</i> L.

Crop 1: BRSOA COLLARD Variety: FLASH  
Planting Date: 07/02/04 Planting Method: CONVENTIONAL  
Rate: 12 SEEDS/FOOT Depth: 0.50 IN  
Row Spacing: 12 INCH Seed Bed: CONVENTIONAL  
Soil Moisture: MOIST

Crop 2: BRSOC KALE Variety: VATES BLUE CURLED  
Planting Date: 07/02/04 Planting Method: CONVENTIONAL  
Rate: 12 SEEDS/FOOT Depth: 0.50 IN  
Row Spacing: 12 INCH Seed Bed: CONVENTIONAL  
Soil Moisture: MOIST

Crop 3: MUSGN MUSTARD GREEN Variety: INDIA SOUTHERN GIANT CURLED  
Planting Date: 07/02/04 Planting Method: CONVENTIONAL  
Rate: 12 SEEDS/FOOT Depth: 0.50 IN  
Row Spacing: 12 INCH Seed Bed: CONVENTIONAL  
Soil Moisture: MOIST

Crop 4: TURGN TURNIP GREEN Variety: TOPPER  
Planting Date: 07/02/04 Planting Method: CONVENTIONAL  
Rate: 12 SEEDS/FOOT Depth: 0.50 IN  
Row Spacing: 12 INCH Seed Bed: CONVENTIONAL  
Soil Moisture: MOIST

### 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: 19.2 % OM: 70 Texture: MUCK  
% Silt: 9.3 pH: 5.6 Soil Name: LINWOOD MUCK  
% Clay: 1.5 Fert. Level: HIGH

# The Ohio State University

## GREENS - POST HERBICIDE TOLERANCE & WEED CONTROL 1

### APPLICATION DESCRIPTION

	A	B
Application Date:	7/2/2004	7/19/2004
Time of Day:	3-4 PM	5-6:30 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	85 F	79F
% Relative Humidity:	75	50
Wind Velocity, Unit:	7 SE	4.5 W
Dew Presence (Y/N):	N	N
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	50	80

### CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	BRSOA PRE	BRSOA POST
Stage Scale:	NONE	2 TRUE LEAF
Height, Unit:	0 IN	3 IN
Crop 2 Code, Stage:	BRSOC PRE	BRSOC POST
Stage Scale:	NONE	3 TRUE LEAF
Height, Unit:	0 IN	2.5 IN
Crop 3 Code, Stage:	MUSGN PRE	MUSGN POST
Stage Scale:	NONE	4 TRUE LEAF
Height, Unit:	0 IN	2 IN
Crop 4 Code, Stage:	TURGN PRE	TURGN POST
Stage Scale:	NONE	7 TRUE LEAF
Height, Unit:	0 IN	5 IN

### WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	POROL PRE	POROL POST
Stage Scale:	.	5 IN DIAMETER
Density, Unit:	. .	HIGH
Weed 2 Code, Stage:	AMARE PRE	AMARE POST
Stage Scale:	.	2 TRUE LEAF
Density, Unit:	. .	LOW
Weed 3 Code, Stage:	AMAXX PRE	AMAXX POST
Stage Scale:	.	2 TRUE LEAF
Density, Unit:	. .	LOW
Weed 4 Code, Stage:	AGRAS PRE	AGRAS POST
Stage Scale:	.	2 TRUE LEAF
Density, Unit:	. .	LOW
Weed 5 Code, Stage:	AMABL PRE	AMABL POST
Stage Scale:	.	2 TRUE LEAF
Density, Unit:	. .	LOW
Weed 6 Code, Stage:	CHEAL PRE	CHEAL POST
Stage Scale:	.	2 TRUE LEAF
Density, Unit:	. .	LOW

# The Ohio State University

## GREENS - POST HERBICIDE TOLERANCE & WEED CONTROL 1

### APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	TRACTOR	CO2 BACKPACK
Operating Pressure:	40	35
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	80-3R	8002 VS
Nozzle Spacing, Unit:	16 IN	15 IN
Nozzles/Row:	4	4
Boom Height, Unit:	14 IN	15 IN
Ground Speed, Unit:	2 MPH	3.0 MPH
Spray Volume, Unit:	46.4 GPA	25 GPA

### Trial Comments

Dual Magnum or Outlook was applied PRE to one-half of each plot on 7/2. POST treatments were applied across the Dual Magnum and Outlook treated areas. Each 6' wide plot contained a single 10' long row of each crop. Crop height taken pre-harvest, is the average of three plants. Weed weights at harvest were also taken on a per plot basis. Yields for the crops were based on a five foot sample in the plot center; the crops were cut at the soil line. Heavy rains this summer affected yields and plant growth in rep 4.

"ALL", under CROP CODE, refers to all four crops.

# The Ohio State University

## GREENS - POST HERBICIDE TOLERANCE & WEED CONTROL 1

Trial ID: GREENHTWCCEL 2004

Study Dir: Douglas Doohan and T. Koch

Location: Celeryville, Ohio

Investigator: Douglas Doohan

Weed Code	MUSGN	TURGN	BRSOA	BRSOC	POROL	AMAXX	CHEAL
Crop Code	PLANT	PLANT	PLANT	PLANT	ALL	ALL	ALL
Part Rated	INJURY	INJURY	INJURY	INJURY	WEED	WEED	WEED
Rating Data Type	INJURY	INJURY	INJURY	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%	%
Rating Date	7/26/04	7/26/04	7/26/04	7/26/04	7/26/04	7/26/04	7/26/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6	7
DUAL 2 MAGNUM WEEDY CONTROL	1.05	PT/A	PRE	0	0	0	0	0	0	0
DUAL 2 MAGNUM DUAL 2 MAGNUM	1.05 1.36	PT/A PT/A	PRE POST	5	0	5	8	8	16	53
DUAL 2 MAGNUM OUTLOOK	1.05 0.67	PT/A PT/A	PRE POST	23	24	18	20	31	32	27
DUAL 2 MAGNUM NORTRON	1.05 4	PT/A PT/A	PRE POST	31	44	30	26	64	70	99
DUAL 2 MAGNUM SPARTAN	1.05 6.8	PT/A OZ/A	PRE POST	13	11	6	11	36	71	50
OUTLOOK WEEDY CONTROL	0.67	PT/A	PRE	0	0	0	0	0	0	0
OUTLOOK DUAL 2 MAGNUM	0.67 1.36	PT/A PT/A	PRE POST	41	29	11	6	23	13	99
OUTLOOK OUTLOOK	0.67 0.67	PT/A PT/A	PRE POST	11	4	6	18	54	80	77
OUTLOOK NORTRON	0.67 4	PT/A PT/A	PRE POST	21	23	18	19	70	52	77
OUTLOOK SPARTAN	0.67 6.8	PT/A OZ/A	PRE POST	16	33	15	59	80	99	99
LSD (P=.05)				16	20	12	25	31	40	49
Standard Deviation				11	14	9	17	21	28	34
CV				67	83	79	102	58	64	58

# The Ohio State University

## GREENS - POST HERBICIDE TOLERANCE & WEED CONTROL 1

Trial ID: GREENHTWCCEL 2004

Study Dir: Douglas Doohan and T. Koch

Location: Celeryville, Ohio

Investigator: Douglas Doohan

				AGRASS					POROL		AMAXX
				ALL	MUSGN	TURGN	BRSOA	BRSOC	ALL	ALL	
				WEED	PLANT	PLANT	PLANT	PLANT	WEED	WEED	
				CONTROL	INJURY	INJURY	INJURY	INJURY	CONTROL	CONTROL	
				%	%	%	%	%	%	%	
				7/26/04	8/17/04	8/17/04	8/17/04	8/17/04	8/17/04	8/17/04	
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	8	9	10	11	12	13	14	
DUAL 2 MAGNUM WEEDY CONTROL	1.05	PT/A	PRE	0	0	0	0	0	0	0	
DUAL 2 MAGNUM	1.05	PT/A	PRE	99	11	38	20	0	30	15	
DUAL 2 MAGNUM	1.36	PT/A	POST								
DUAL 2 MAGNUM OUTLOOK	1.05 0.67	PT/A PT/A	PRE POST	52	28	50	28	50	34	30	
DUAL 2 MAGNUM NORTRON	1.05 4	PT/A PT/A	PRE POST	77	25	70	24	30	84	44	
DUAL 2 MAGNUM SPARTAN	1.05 6.8	PT/A OZ/A	PRE POST	99	15	30	20	15	38	54	
OUTLOOK WEEDY CONTROL	0.67	PT/A	PRE	0	0	0	0	0	0	0	
OUTLOOK	0.67	PT/A	PRE	99	35	38	13	30	0	0	
DUAL 2 MAGNUM	1.36	PT/A	POST								
OUTLOOK OUTLOOK	0.67 0.67	PT/A PT/A	PRE POST	99	10	13	10	30	35	48	
OUTLOOK NORTRON	0.67 4	PT/A PT/A	PRE POST	77	29	43	33	45	90	33	
OUTLOOK SPARTAN	0.67 6.8	PT/A OZ/A	PRE POST	99	4	10	0	13	73	99	
LSD (P=.05)				39	24	27	23	31	31	45	
Standard Deviation				27	16	19	16	22	21	31	
CV				38	105	64	110	101	56	96	

# The Ohio State University

## GREENS - POST HERBICIDE TOLERANCE & WEED CONTROL 1

Trial ID: GREENHTWCCEL 2004

Study Dir: Douglas Doohan and T. Koch

Location: Celeryville, Ohio

Investigator: Douglas Doohan

Weed Code	CHEAL	AGRASS										
Crop Code	ALL	ALL	MUSGN	TURGN	BRSOA	BRSOC	MUSGN	TURGN				
Part Rated	WEED	WEED	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT				
Rating Data Type	CONTROL	CONTROL	HEIGHT	HEIGHT	HEIGHT	HEIGHT	YIELD	YIELD				
Rating Unit	%	%	CM	CM	CM	CM	G	G				
Rating Date	8/17/04	8/17/04	8/17/04	8/17/04	8/17/04	8/17/04	8/17/04	8/17/04	8/17/04	8/17/04	8/17/04	

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	15	16	17	18	19	20	21	22
DUAL 2 MAGNUM WEEDY CONTROL	1.05	PT/A	PRE	0	0	36	44.8	29.8	15.1	478.4	553.4
DUAL 2 MAGNUM DUAL 2 MAGNUM	1.05 1.36	PT/A PT/A	PRE POST	25	68	38.3	48.9	30.2	13.7	917.2	968.9
DUAL 2 MAGNUM OUTLOOK	1.05 0.67	PT/A PT/A	PRE POST	47	13	31.4	36.8	24.8	12.9	579.8	399.8
DUAL 2 MAGNUM NORTRON	1.05 4	PT/A PT/A	PRE POST	71	64	34.9	32.2	25.2	9.8	970.5	285.7
DUAL 2 MAGNUM SPARTAN	1.05 6.8	PT/A OZ/A	PRE POST	74	47	35.4	45.5	29.3	13.7	659.5	1102.6
OUTLOOK WEEDY CONTROL	0.67	PT/A	PRE	0	0	33.5	40.9	27.1	15.4	589.5	869.8
OUTLOOK DUAL 2 MAGNUM	0.67 1.36	PT/A PT/A	PRE POST	47	5	26.7	33.8	25.8	14.5	378.3	464.6
OUTLOOK OUTLOOK	0.67 0.67	PT/A PT/A	PRE POST	23	43	35.5	46.4	29.7	11.3	770.2	1153.8
OUTLOOK NORTRON	0.67 4	PT/A PT/A	PRE POST	97	46	30.5	37.7	22.7	6.5	594.1	795.6
OUTLOOK SPARTAN	0.67 6.8	PT/A OZ/A	PRE POST	92	90	34.7	49.5	33.2	11.1	1280.1	1475
LSD (P=.05)				59	55	6.9	13.8	6.8	5.3	454.9	1045.4
Standard Deviation				40	38	4.8	9.5	4.7	3.6	313.5	720.5
CV				85	101	14.2	22.9	16.9	29.4	43.4	89.3

# The Ohio State University

## GREENS - POST HERBICIDE TOLERANCE & WEED CONTROL 1

Trial ID: GREENHTWCCEL 2004

Study Dir: Douglas Doohan and T. Koch

Location: Celeryville, Ohio

Investigator: Douglas Doohan

Weed Code				POROL	AMABL	AMARE	CHEAL	AGRASS
Crop Code	BRSOA	BRSOC		ALL	ALL	ALL	ALL	ALL
Part Rated	PLANT	PLANT		WEED	WEED	WEED	WEED	WEED
Rating Data Type	YIELD	YIELD		WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT
Rating Unit	G	G		KG	KG	KG	KG	KG
Rating Date	8/17/04	8/17/04		8/23/04	8/23/04	8/23/04	8/23/04	8/23/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	23	24	25	26	27	28	29
DUAL 2 MAGNUM WEEDY CONTROL	1.05	PT/A	PRE	200.9	30.4	6	0.9	1.6	0.2	0.1
DUAL 2 MAGNUM DUAL 2 MAGNUM	1.05 1.36	PT/A PT/A	PRE POST	330.5	43	5.5	0.8	0.4	0.1	0
DUAL 2 MAGNUM OUTLOOK	1.05 0.67	PT/A PT/A	PRE POST	234.1	17.6	3.6	0.6	0.2	0.1	0.6
DUAL 2 MAGNUM NORTRON	1.05 4	PT/A PT/A	PRE POST	228.3	5.9	0.3	3.2	0.1	0	0.4
DUAL 2 MAGNUM SPARTAN	1.05 6.8	PT/A OZ/A	PRE POST	200.1	14.9	4.4	0	0.3	0	1
OUTLOOK WEEDY CONTROL	0.67	PT/A	PRE	198.8	19.1	4.6	0.9	0.3	0.1	0.2
OUTLOOK DUAL 2 MAGNUM	0.67 1.36	PT/A PT/A	PRE POST	165.7	11.3	3.5	0.6	0.2	0	0.4
OUTLOOK OUTLOOK	0.67 0.67	PT/A PT/A	PRE POST	373.2	15.7	3.2	0.1	0.3	0.1	0.6
OUTLOOK NORTRON	0.67 4	PT/A PT/A	PRE POST	226.3	4.4	0.1	2.2	0.1	0	0.6
OUTLOOK SPARTAN	0.67 6.8	PT/A OZ/A	PRE POST	491.7	12.8	1.5	0	0	0	0.1
LSD (P=.05)				185.4	21.1	2.0	1.3	0.8	0.2	1.2
Standard Deviation				127.8	14.5	1.4	0.9	0.5	0.1	0.8
CV				48.2	83.1	41.8	93.4	151.1	160.1	206.4



# The Ohio State University

## GREENS - POST HERBICIDE TOLERANCE & WEED CONTROL 2

Trial ID: GREENHTWCCEL 2004      Study Dir: Douglas Doohan and T. Koch  
Location: Celeryville, Ohio      Investigator: Douglas Doohan

### TRIAL LOCATION

City: South Willard      Trial Status: Final  
State/Prov: Ohio      Trial Reliability: Reliable  
Postal Code: 44890      Initiation Date: 07/02/04  
Planned Completion Date: 12/01/04

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	POROL	common purslane	<i>Portulaca oleracea</i> L.
2	AMARE	redroot pigweed	<i>Amaranthus retroflexus</i>
3	AMAXX	pigweed species	<i>Amaranth</i> spp.
4	AGRASS	crabgrass species	<i>Digitaria</i> spp.
5	AMABL	prostrate pigweed	<i>Amaranthus blitoides</i> S.Wats.
6	CHEAL	common lambsquarter	<i>Chenopodium album</i> L.
7	GASCI	hairy galinsoga	<i>Galinsoga ciliata</i> ( Raf.) Blake

Crop 1: BRSOA COLLARD      Variety: FLASH  
Planting Date: 07/02/04      Planting Method: CONVENTIONAL  
Rate: 12 SEEDS/FOOT      Depth: 0.50 IN  
Row Spacing: 12 INCH      Seed Bed: CONVENTIONAL  
Soil Moisture: MOIST

Crop 2: BRSOC KALE      Variety: VATES BLUE CURLED  
Planting Date: 07/02/04      Planting Method: CONVENTIONAL  
Rate: 12 SEEDS/FOOT      Depth: 0.50 IN  
Row Spacing: 12 INCH      Seed Bed: CONVENTIONAL  
Soil Moisture: MOIST

Crop 3: MUSGN MUSTARD GREEN      Variety: INDIA SOUTHERN GIANT CURLED  
Planting Date: 07/02/04      Planting Method: CONVENTIONAL  
Rate: 12 SEEDS/FOOT      Depth: 0.50 IN  
Row Spacing: 12 INCH      Seed Bed: CONVENTIONAL  
Soil Moisture: MOIST

Crop 4: TURGN TURNIP GREEN      Variety: TOPPER  
Planting Date: 07/02/04      Planting Method: CONVENTIONAL  
Rate: 12 SEEDS/FOOT      Depth: 0.50 IN  
Row Spacing: 12 INCH      Seed Bed: CONVENTIONAL  
Soil Moisture: MOIST

### SITE AND DESIGN

Plot Width, Unit: 6 FT      Plot Length, Unit: 20 FT  
Site Type: LEVEL FIELD      Reps: 4  
Tillage Type: CONVENTIONAL      Study Design: SPLIT-PLOT

### SOIL DESCRIPTION

% Sand: 19.2      % OM: 70      Texture: MUCK  
% Silt: 9.3      pH: 5.6      Soil Name: LINWOOD MUCK  
% Clay: 1.5      Fert. Level: HIGH

# The Ohio State University

## GREENS - POST HERBICIDE TOLERANCE & WEED CONTROL 2

### APPLICATION DESCRIPTION

	A	B
Application Date:	7/20/2004	8/15/2004
Time of Day:	12AM-1PM	10-11 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	81 F	73 F
% Relative Humidity:	80	53
Wind Velocity, Unit:	7 SW	6 SW
Dew Presence (Y/N):	N	N
% Cloud Cover:	50	50

### CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	BRSOA PRE	BRSOA POST
Stage Scale:	NONE	VEGETATIVE
Height, Unit:	0 IN	5 IN
Crop 2 Code, Stage:	BRSOC PRE	BRSOC POST
Stage Scale:	NONE	VEGETATIVE
Height, Unit:	0 IN	3.5 IN
Crop 3 Code, Stage:	MUSGN PRE	MUSGN POST
Stage Scale:	NONE	VEGETATIVE
Height, Unit:	0 IN	7 IN
Crop 4 Code, Stage:	TURGN PRE	TURGN POST
Stage Scale:	NONE	VEGETATIVE
Height, Unit:	0 IN	7 IN

### WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	POROL PRE	POROL POST
Stage Scale:	.	2 IN
Density, Unit:	. .	HIGH
Weed 2 Code, Stage:	AMARE PRE	AMARE POST
Stage Scale:	.	6 IN
Density, Unit:	. .	HIGH
Weed 3 Code, Stage:	AMAXX PRE	AMAXX POST
Stage Scale:	.	6 IN
Density, Unit:	. .	HIGH
Weed 4 Code, Stage:	AGRAS PRE	AGRAS POST
Stage Scale:	.	10 IN
Density, Unit:	. .	LOW
Weed 5 Code, Stage:	AMABL PRE	AMABL POST
Stage Scale:	.	6 IN
Density, Unit:	. .	HIGH
Weed 6 Code, Stage:	CHEAL PRE	CHEAL POST
Stage Scale:	.	10 IN
Density, Unit:	. .	LOW
Weed 7 Code, Stage:	GASCI PRE	GASCI POST
Stage Scale:	.	10 IN
Density, Unit:	. .	LOW

# The Ohio State University

## GREENS - POST HERBICIDE TOLERANCE & WEED CONTROL 2

### APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	TRACTOR	CO2 BACKPACK
Operating Pressure:	40	35
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	80-3R	8002VS
Nozzle Spacing, Unit:	16 IN	15 IN
Nozzles/Row:	4	4
Band Width, Unit:	5.3 FT	5 FT
Boom Height, Unit:	14 IN	15 IN
Ground Speed, Unit:	2 MPH	3 MPH
Spray Volume, Unit:	46.4 GPA	25 GPA

### Trial Comments

Dual Magnum or Outlook was applied PRE to one-half of each plot on 7/20. POST treatments were applied across the Dual Magnum and Outlook treated areas. Each 6' wide plot contained a single 20' long row of each crop. Crop height taken pre-harvest, is the average of three plants. Weed weights at harvest were also taken on a per plot basis. Yields for the crops were based on a five foot sample in the plot center; the crops were cut at the soil line. Heavy rains this summer affected yields and plant growth in rep 4.

"ALL," under CROP CODE refers to all four crops.

# The Ohio State University

## GREENS - POST HERBICIDE TOLERANCE & WEED CONTROL 2

Trial ID: GREENHTWCCEL 2004

Study Dir: Douglas Doohan and T. Koch

Location: Celeryville, Ohio

Investigator: Douglas Doohan

Weed Code					POROL	AMAXX	CHEAL
Crop Code	BRSOC	TURGN	BRSOA	MUSGN	ALL	ALL	ALL
Part Rated	PLANT	PLANT	PLANT	PLANT	WEED	WEED	WEED
Rating Data Type	INJURY	INJURY	INJURY	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%	%
Rating Date	8/24/04	8/24/04	8/24/04	8/24/04	8/24/04	8/24/04	8/24/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6	7
DUAL 2 MAGNUM WEEDY CONTROL	1.05	PT/A	PRE	0	0	0	0	0	0	0
DUAL 2 MAGNUM DUAL 2 MAGNUM	1.05 1.36	PT/A PT/A	PRE POST	3	3	3	3	4	0	0
DUAL 2 MAGNUM OUTLOOK	1.05 0.67	PT/A PT/A	PRE POST	10	11	5	10	8	3	0
DUAL 2 MAGNUM NORTRON	1.05 4	PT/A PT/A	PRE POST	11	11	15	19	25	6	30
DUAL 2 MAGNUM SPARTAN	1.05 6.8	PT/A OZ/A	PRE POST	8	11	9	16	75	96	74
LSD (P=.05)				9	15	10	14	17	8	45
Standard Deviation				6	10	6	9	11	5	29
CV				91	131	99	98	50	23	141

# The Ohio State University

## GREENS - POST HERBICIDE TOLERANCE & WEED CONTROL 2

Trial ID: GREENHTWCCEL 2004

Study Dir: Douglas Doohan and T. Koch

Location: Celeryville, Ohio

Investigator: Douglas Doohan

Weed Code			GASCI	AGRASS				POROL	AMAXX		
Crop Code			ALL	ALL	BRSOC	TURGN	BRSOA	MUSGN	ALL	ALL	
Part Rated			WEED	WEED	PLANT	PLANT	PLANT	PLANT	WEED	WEED	
Rating Data Type			CONTROL	CONTROL	INJURY	INJURY	INJURY	INJURY	CONTROL	CONTROL	
Rating Unit			%	%	%	%	%	%	%	%	
Rating Date			8/24/04	8/24/04	9/7/04	9/7/04	9/7/04	9/7/04	9/7/04	9/7/04	
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	8	9	10	11	12	13	14	15
DUAL 2 MAGNUM WEEDY CONTROL	1.05	PT/A	PRE	0	0	0	0	0	0	0	0
DUAL 2 MAGNUM DUAL 2 MAGNUM	1.05 1.36	PT/A PT/A	PRE POST	0	0	3	0	8	8	0	0
DUAL 2 MAGNUM OUTLOOK	1.05 0.67	PT/A PT/A	PRE POST	0	0	13	28	25	18	30	0
DUAL 2 MAGNUM NORTRON	1.05 4	PT/A PT/A	PRE POST	50	52	23	55	34	34	69	5
DUAL 2 MAGNUM SPARTAN	1.05 6.8	PT/A OZ/A	PRE POST	99	64	5	44	24	18	48	90
LSD (P=.05)				39	51	18	29	26	27	37	8
Standard Deviation				26	33	12	19	17	17	24	5
CV				86	143	139	75	95	114	81	27

# The Ohio State University

## GREENS - POST HERBICIDE TOLERANCE & WEED CONTROL 2

Trial ID: GREENHTWCCEL 2004

Study Dir: Douglas Doohan and T. Koch

Location: Celeryville, Ohio

Investigator: Douglas Doohan

Weed Code	CHEAL	GASCI	AGRASS							
Crop Code	ALL	ALL	ALL	BRSOC	TURGN	BRSOA	BRSOC			
Part Rated	WEED	WEED	WEED	PLANT	PLANT	PLANT	PLANT			
Rating Data Type	CONTROL	CONTROL	CONTROL	HEIGHT	HEIGHT	HEIGHT	YIELD			
Rating Unit	%	%	%	CM	CM	CM	G			
Rating Date	9/7/04	9/7/04	9/7/04	9/16/04	9/16/04	9/16/04	9/16/04			
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	16	17	18	19	20	21	22
DUAL 2 MAGNUM WEEDY CONTROL	1.05	PT/A	PRE	23	0	0	29.1	34	23.2	639
DUAL 2 MAGNUM DUAL 2 MAGNUM	1.05 1.36	PT/A PT/A	PRE POST	0	25	0	26.6	34.4	20.5	479.6
DUAL 2 MAGNUM OUTLOOK	1.05 0.67	PT/A PT/A	PRE POST	0	50	45	27.4	29.4	20.6	750
DUAL 2 MAGNUM NORTRON	1.05 4	PT/A PT/A	PRE POST	50	50	25	24	26.9	17.1	448.8
DUAL 2 MAGNUM SPARTAN	1.05 6.8	PT/A OZ/A	PRE POST	96	95	63	31.1	23.7	24.8	1680.6
LSD (P=.05)				56	66	50	8.0	9.4	3.6	554.0
Standard Deviation				36	43	32	5.2	6.1	2.3	359.6
CV				107	98	123	18.8	20.6	11.0	45.0

# The Ohio State University

## GREENS - POST HERBICIDE TOLERANCE & WEED CONTROL 2

Trial ID: GREENHTWCCEL 2004

Study Dir: Douglas Doohan and T. Koch

Location: Celeryville, Ohio

Investigator: Douglas Doohan

Weed Code				POROL	AMABL	AMARE	CHEAL	AGRASS	GASCI
Crop Code	TURGN	BRSOA		ALL	ALL	ALL	ALL	ALL	ALL
Part Rated	PLANT	PLANT		WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type	YIELD	YIELD		WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT
Rating Unit	G	G		KG	KG	KG	KG	KG	KG
Rating Date	9/16/04	9/16/04		9/16/04	9/16/04	9/16/04	9/16/04	9/16/04	9/16/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	23	24	25	26	27	28	29	30
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DUAL 2 MAGNUM WEEDY CONTROL	1.05	PT/A	PRE	645.2	173.7	0.9	3.8	0.5	0	0.7	0.1
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DUAL 2 MAGNUM	1.05	PT/A	PRE	586.9	140.2	0.5	4.3	0.1	0	0	0
DUAL 2 MAGNUM	1.36	PT/A	POST								

DUAL 2 MAGNUM	1.05	PT/A	PRE	546.7	216.6	0.2	7.1	0.3	0.1	0	0
OUTLOOK	0.67	PT/A	POST								

DUAL 2 MAGNUM	1.05	PT/A	PRE	412.8	93.7	0.1	3.4	0.1	0	0	0
NORTRON	4	PT/A	POST								

DUAL 2 MAGNUM	1.05	PT/A	PRE	608	281.6	0.7	0	0.1	0	0.1	0
SPARTAN	6.8	OZ/A	POST								

LSD (P=.05)	438.7	72.7	.	.	.	.	.	.	.	.
Standard Deviation	284.7	47.2	.	.	.	.	.	.	.	.
CV	50.9	26.0	.	.	.	.	.	.	.	.

# The Ohio State University

## GREENS - SENSITIVITY TO CALLISTO APPLIED THE PREVIOUS YEAR

Trial ID: SENROTCRCALLC2004    Study Dir: Douglas Doohan and T. Koch  
Location: Celeryville, Ohio    Investigator: Douglas Doohan

### TRIAL LOCATION

City: South Willard    Trial Status: Final  
State/Prov: Ohio    Trial Reliability: Reliable  
Postal Code: 44890    Initiation Date: 07/14/03  
Planned Completion Date: 12/01/04

Objective: To evaluate possible carryover effects of Callisto herbicide applied POST in 2003, to leafy greens planted in 2004.

Crop 1: MUSGN MUSTARD GREEN    Variety: SOUTHERN GIANT CURLED  
Planting Date: 05/13/04    Planting Method: CONVENTIONAL  
Rate: 12 SEEDS/FT    Depth: 0.50 IN  
Row Spacing: 12 IN    Seed Bed: CONVENTIONAL  
Emergence Date: 05/19/04

Crop 2: TURGN TURNIP GREEN    Variety: TOPPER  
Planting Date: 05/13/04    Planting Method: CONVENTIONAL  
Rate: 12 SEEDS/FT    Depth: 0.50 IN  
Row Spacing: 12 IN    Seed Bed: CONVENTIONAL  
Emergence Date: 05/19/04

Crop 3: BRSOA COLLARD    Variety: CHAMPION  
Planting Date: 05/13/04    Planting Method: CONVENTIONAL  
Rate: 12 SEEDS/FT    Depth: 0.50 IN  
Row Spacing: 12 IN    Seed Bed: CONVENTIONAL  
Emergence Date: 05/19/04

Crop 4: BRSOC KALE    Variety: VATES BLUE CURLED  
Planting Date: 05/13/04    Planting Method: CONVENTIONAL  
Rate: 12 SEEDS/FT    Depth: 0.50 IN  
Row Spacing: 12 IN    Seed Bed: CONVENTIONAL  
Emergence Date: 05/19/04

### SITE AND DESIGN

Plot Width, Unit: 15 FT    Plot Length, Unit: 10 FT  
Site Type: LEVEL FIELD    Reps: 4  
Tillage Type: CONVENTIONAL    Study Design: RANDOMIZED COMPLETE BLOCK

### SOIL DESCRIPTION

% Sand: 19.2    % OM: 70    Texture: MUCK  
% Silt: 9.3    pH: 5.6    Soil Name: LINWOOD MUCK  
% Clay: 1.5    Fert. Level: HIGH

### APPLICATION DESCRIPTION

A  
Application Date: 7/14/2003  
Time of Day: 3-4 PM  
Application Method: SPRAY  
Application Timing: EPOST  
Applic. Placement: BROADCAST  
Air Temp., Unit: 69 F



# The Ohio State University

## GREENS - SENSITIVITY TO CALLISTO APPLIED THE PREVIOUS YEAR

### CROP STAGE AT EACH APPLICATION

A  
Crop 1 Code, Stage: MUSGN PRE  
Stage Scale: NONE  
Height, Unit: 0 IN  
Crop 2 Code, Stage: TURGN PRE  
Stage Scale: NONE  
Height, Unit: 0 IN  
Crop 3 Code, Stage: BRSOA PRE  
Stage Scale: NONE  
Height, Unit: 0 IN  
Crop 4 Code, Stage: BRSOC PRE  
Stage Scale: NONE  
Height, Unit: 0 IN

### APPLICATION EQUIPMENT

A  
Appl. Equipment: TRACTOR  
Operating Pressure: 40  
Nozzle Type: FAN  
Nozzle Size: 80-3R  
Nozzle Spacing, Unit: 16 IN  
Nozzles/Row: 4  
Band Width, Unit: 5.3 FT  
Boom Height, Unit: 14 IN  
Ground Speed, Unit: 2 MPH  
Spray Volume, Unit: 46.4 GPA

### Trial Comments

In 2004, leafy greens were planted across plots sprayed in 2003.

# The Ohio State University

## GREENS - SENSITIVITY TO CALLISTO APPLIED THE PREVIOUS YEAR

Trial ID: SENROTCRCALLC2004

Study Dir: Douglas Doohan and T.Koch

Location: Celeryville, Ohio

Investigator: Douglas Doohan

Weed Code				MUSGN	MUSGN	TURGN	TURGN	BRSOA	BRSOA	BRSOC
Crop Code				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Part Rated				STAND	VIGOR	STAND	VIGOR	STAND	VIGOR	STAND
Rating Data Type				%	%	%	%	%	%	%
Rating Unit				5/27/04	5/27/04	5/27/04	5/27/04	5/27/04	5/27/04	5/27/04
Rating Date				5/27/04	5/27/04	5/27/04	5/27/04	5/27/04	5/27/04	5/27/04
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6	7
Control				0	0	0	0	0	0	24
Callisto + COC	3 25.6	OZ/A OZ/A	EPOST EPOST	14	4	3	0	0	0	36
Callisto+ COC	6 25.6	OZ/A OZ/A	EPOST EPOST	40	30	14	15	24	18	54
Callisto+ COC	12 25.6	OZ/A OZ/A	EPOST EPOST	96	96	41	35	60	59	86
LSD (P=.05)				7	17	27	10	15	16	21
Standard Deviation				4	11	17	6	9	10	13
CV				12	33	117	50	45	54	26

# The Ohio State University

## GREENS - SENSITIVITY TO CALLISTO APPLIED THE PREVIOUS YEAR

Trial ID: SENROTCRCALLC2004

Study Dir: Douglas Doohan and T.Koch

Location: Celeryville, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

BRSOC	MUSGN	MUSGN	MUSGN	TURGN	TURGN	TURGN
PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
VIGOR	CHLOROSIS	STUNT	INJURY	CHLOROSIS	STUNT	INJURY
%	%	%	%	%	%	%
5/27/04	6/10/04	6/10/04	6/10/04	6/10/04	6/10/04	6/10/04

Treatment	Product	Product	Grow	8	9	10	11	12	13	14
Name	Rate	Rate Unit	Stg							

Control				3	0	0	0	0	0	0
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Callisto +	3	OZ/A	EPOST	0	0	6	6	0	0	0
COC	25.6	OZ/A	EPOST							

Callisto+	6	OZ/A	EPOST	18	3	50	50	1	6	8
COC	25.6	OZ/A	EPOST							

Callisto+	12	OZ/A	EPOST	84	100	100	100	45	64	69
COC	25.6	OZ/A	EPOST							

LSD (P=.05)	23	4	23	23	26	19	19
Standard Deviation	15	3	15	15	16	12	12
CV	56	10	37	37	142	67	62

# The Ohio State University

## GREENS - SENSITIVITY TO CALLISTO APPLIED THE PREVIOUS YEAR

Trial ID: SENROTCRCALLC2004

Study Dir: Douglas Doohan and T.Koch

Location: Celeryville, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

BRSOA	BRSOA	BRSOA	BRSOC	BRSOC	BRSOC
PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
CHLOROSIS	STUNT	INJURY	CHLOROSIS	STUNT	INJURY
%	%	%	%	%	%
6/10/04	6/10/04	6/10/04	6/10/04	6/10/04	6/10/04

Treatment	Product	Product	Grow						
Name	Rate	Rate Unit	Stg	15	16	17	18	19	20

Control				0	0	0	0	0	0
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Callisto +	3	OZ/A	EPOST	6	9	14	1	18	13
COC	25.6	OZ/A	EPOST						

Callisto+	6	OZ/A	EPOST	9	15	20	10	38	40
COC	25.6	OZ/A	EPOST						

Callisto+	12	OZ/A	EPOST	81	84	93	96	96	96
COC	25.6	OZ/A	EPOST						

LSD (P=.05)	18	17	18	8	17	19
Standard Deviation	11	11	11	5	10	12
CV	47	40	36	18	27	32

# The Ohio State University

## GREENS - SENSITIVITY TO CALLISTO APPLIED THE PREVIOUS YEAR

Trial ID: SENROTCRCALLC2004

Study Dir: Douglas Doohan and T.Koch

Location: Celeryville, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

MUSGN	MUSGN	MUSGN	TURGN	TURGN	TURGN
PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
CHLOROSIS	STUNT	INJURY	CHLOROSIS	STUNT	INJURY
%	%	%	%	%	%
6/23/04	6/23/04	6/23/04	6/23/04	6/23/04	6/23/04

Treatment	Product	Product	Grow						
Name	Rate	Rate Unit	Stg	21	22	23	24	25	26

Control				0	0	0	0	0	0
---------	--	--	--	---	---	---	---	---	---

Callisto +	3	OZ/A	EPOST	0	0	0	0	0	0
COC	25.6	OZ/A	EPOST						

Callisto+	6	OZ/A	EPOST	0	21	21	0	5	5
COC	25.6	OZ/A	EPOST						

Callisto+	12	OZ/A	EPOST	0	79	93	65	48	78
COC	25.6	OZ/A	EPOST						

LSD (P=.05)	0	13	8	5	5	6
Standard Deviation	0	8	5	3	3	3
CV	0	33	17	18	25	17

# The Ohio State University

## GREENS - SENSITIVITY TO CALLISTO APPLIED THE PREVIOUS YEAR

Trial ID: SENROTCRCALLC2004

Study Dir: Douglas Doohan and T.Koch

Location: Celeryville, Ohio

Investigator: Douglas Doohan

Weed Code				BRSOA	BRSOA	BRSOA	BRSOC	BRSOC	BRSOC
Crop Code				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Part Rated				CHLOROSIS	STUNT	INJURY	CHLOROSIS	STUNT	INJURY
Rating Data Type				CHLOROSIS	STUNT	INJURY	CHLOROSIS	STUNT	INJURY
Rating Unit				%	%	%	%	%	%
Rating Date				6/23/04	6/23/04	6/23/04	6/23/04	6/23/04	6/23/04
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	27	28	29	30	31	32
Control				0	0	0	0	0	0
Callisto + COC	3 25.6	OZ/A OZ/A	EPOST EPOST	0	0	0	0	0	0
Callisto+ COC	6 25.6	OZ/A OZ/A	EPOST EPOST	0	4	4	0	10	10
Callisto+ COC	12 25.6	OZ/A OZ/A	EPOST EPOST	45	60	86	29	80	91
LSD (P=.05)				8	6	6	7	16	15
Standard Deviation				5	4	4	4	10	10
CV				44	25	17	59	44	38

# The Ohio State University

## HERBS - POST HERBICIDE TOLERANCE AND WEED CONTROL 1

Trial ID: HERBHTWCCEL 2004      Study Dir: Douglas Doohan and T.Koch  
Location: Celeryville, Ohio      Investigator: Douglas Doohan

### TRIAL LOCATION

City: South Willard      Trial Status: Final  
State/Prov: Ohio      Trial Reliability: Reliable  
Postal Code: 44890      Initiation Date: 07/02/04  
Planned Completion Date: 12/01/04

Objective: To assess crop tolerance and weed control using various POST herbicide applications.

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	POROL	common purslane	<i>Portulaca oleracea</i> L.
2	AMAXX	pigweed species	<i>Amaranth</i> spp.
3	AGRASS	crabgrass species	<i>Digitaria</i> spp.
4	GASCI	hairy galinsoga	<i>Galinsoga ciliata</i> (Raf.) Blake
5	CHEAL	common lambsquarter	<i>Chenopodium album</i> L.

Crop 1: CILAN CILANTRO      Variety: SANTOS  
Planting Date: 07/02/04      Planting Method: CONVENTIONAL  
Rate: 12 SEEDS/FT      Depth: 0.50 IN  
Row Spacing: 12 IN      Seed Bed: CONVENTIONAL  
Soil Moisture: MOIST

Crop 2: AFEGR DILL      Variety: DUKAT  
Planting Date: 07/02/04      Planting Method: CONVENTIONAL  
Rate: 12 SEEDS/FT      Depth: 0.50 IN  
Row Spacing: 12 IN      Seed Bed: CONVENTIONAL

Crop 3: PARSS PARSLEY      Variety: NEW DARK GREEN ITALIAN  
Planting Date: 07/02/04      Planting Method: CONVENTIONAL  
Rate: 12 SEEDS/FT      Depth: 0.50 IN  
Row Spacing: 12 IN      Seed Bed: CONVENTIONAL

### 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: 19.2      % OM: 70      Texture: MUCK  
% Silt: 9.3      pH: 5.6      Soil Name: LINWOOD MUCK  
% Clay: 1.5      Fert. Level: HIGH

# The Ohio State University

## HERBS - POST HERBICIDE TOLERANCE AND WEED CONTROL 1

### APPLICATION DESCRIPTION

	A	B
Application Date:	7/2/2004	7/19/2004
Time of Day:	3-4 PM	5-6:30 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	85 F	79 F
% Relative Humidity:	75	50
Wind Velocity, Unit:	7 SE	4.5 W
Dew Presence (Y/N):	N	N
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	50	80

### CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	CILAN PRE	CILAN POST
Stage Scale:	NONE	3 LEAF
Height, Unit:	0 IN	1.5 IN
Crop 2 Code, Stage:	AFEGR PRE	AFEGR POST
Stage Scale:	NONE	3 LEAF
Height, Unit:	0 IN	1.5 IN
Crop 3 Code, Stage:	PARSS PRE	PARSS POST
Stage Scale:	NONE	COTYLEDON
Height, Unit:	0 IN	0.50 IN

### WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	POROL PRE	POROL POST
Stage Scale:	.	4 IN DIAMETER
Density, Unit:	. .	HIGH
Weed 2 Code, Stage:	AMAXX PRE	AMAXX POST
Stage Scale:	.	2 TRUE LEAF
Density, Unit:	. .	LOW
Weed 3 Code, Stage:	AGRASS PRE	AGRASS POST
Stage Scale:	.	2 TRUE LEAF
Density, Unit:	. .	LOW
Weed 4 Code, Stage:	GASCI PRE	GASCI POST
Stage Scale:	.	2 TRUE LEAF
Density, Unit:	. .	LOW
Weed 5 Code, Stage:	CHEAL PRE	CHEAL POST
Stage Scale:	.	2 TRUE LEAF
Density, Unit:	. .	LOW



# The Ohio State University

## HERBS - POST HERBICIDE TOLERANCE AND WEED CONTROL 1

### APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	TRACTOR	CO2 BACKPACK
Operating Pressure:	40	35
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	80-3R	8002 VS
Nozzle Spacing, Unit:	16 IN	15 IN
Nozzles/Row:	4	4
Boom Height, Unit:	14 IN	15 IN
Ground Speed, Unit:	2 MPH	3.0 MPH
Spray Volume, Unit:	46.4 GPA	25 GPA

### Trial Comments

Dual Magnum or Outlook was applied PRE to one-half of each plot on 7/2. POST treatments were applied across the Dual Magnum and Outlook treated areas. Each 6' wide plot contained a single 10' long row of each crop. Crop height taken pre-harvest, is the average of three plants. Weed weights at harvest were also taken on a per plot basis. Yields for the crops were based on a five foot sample in the plot center; the crops were cut at the soil line. Heavy rains this summer affected yields and plant growth in rep 4.

"ALL," under CROP CODE refers to all three crops in general.

# The Ohio State University

## HERBS - POST HERBICIDE TOLERANCE AND WEED CONTROL 1

Trial ID: HERBHTWCCEL 2004

Study Dir: Douglas Doohan and T. Koch

Location: Celeryville, Ohio

Investigator: Douglas Doohan

				POROL	AMAXX	AGRASS					
Crop Code				CILAN	AFEGR	PARSS	ALL	ALL	ALL	CILAN	
Part Rated				PLANT	PLANT	PLANT	WEED	WEED	WEED	PLANT	
Rating Data Type				INJURY	INJURY	INJURY	CONTROL	CONTROL	CONTROL	INJURY	
Rating Unit				%	%	%	%	%	%	%	
Rating Date				7/26/04	7/26/04	7/26/04	7/26/04	7/26/04	7/26/04	7/26/04	8/9/04
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6	7	
DUAL 2 MAGNUM WEEDY CONTROL	1.05	PT/A	PRE	0	0	0	0	0	0	0	0
DUAL 2 MAGNUM	1.05	PT/A	PRE	19	19	19	34	99	99	99	35
DUAL 2 MAGNUM	1.36	PT/A	POST								
DUAL 2 MAGNUM LOROX	1.05 16	PT/A OZ/A	PRE POST	6	0	0	73	55	99	99	16
DUAL 2 MAGNUM OUTLOOK	1.05 0.67	PT/A PT/A	PRE POST	24	11	10	59	78	99	99	38
DUAL 2 MAGNUM NORTRON	1.05 4	PT/A PT/A	PRE POST	0	8	0	55	77	99	99	11
DUAL 2 MAGNUM SPARTAN	1.05 6.8	PT/A OZ/A	PRE POST	70	24	16	85	99	99	99	79
OUTLOOK WEEDY CONTROL	0.67	PT/A	PRE	0	0	0	0	0	0	0	0
OUTLOOK	0.67	PT/A	PRE	8	3	0	46	99	99	99	16
DUAL 2 MAGNUM	1.36	PT/A	POST								
OUTLOOK LOROX	0.67 16	PT/A OZ/A	PRE POST	0	0	0	85	94	99	99	21
OUTLOOK	0.67	PT/A	PRE	10	3	0	63	99	99	99	15
OUTLOOK	0.67	PT/A	POST								
OUTLOOK NORTRON	0.67 4	PT/A PT/A	PRE POST	0	5	0	76	94	99	99	21
OUTLOOK SPARTAN	0.67 6.8	PT/A OZ/A	PRE POST	76	28	50	80	99	99	99	76
LSD (P=.05)				20	14	10	25	30	0	0	29
Standard Deviation				14	10	7	17	21	0	0	20
CV				78	115	90	32	28	0	0	73

# The Ohio State University

## HERBS - POST HERBICIDE TOLERANCE AND WEED CONTROL 1

Trial ID: HERBHTWCCEL 2004

Study Dir: Douglas Doohan and T. Koch

Location: Celeryville, Ohio

Investigator: Douglas Doohan

Weed Code				POROL	AMAXX	CHEAL	AGRASS	GASCI
Crop Code	AFEGR	PARSS		ALL	ALL	ALL	ALL	ALL
Part Rated	PLANT	PLANT		WEED	WEED	WEED	WEED	WEED
Rating Data Type	INJURY	INJURY		CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%		%	%	%	%	%
Rating Date	8/9/04	8/9/04		8/9/04	8/9/04	8/9/04	8/9/04	8/9/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	8	9	10	11	12	13	14
DUAL 2 MAGNUM WEEDY CONTROL	1.05	PT/A	PRE	0	0	0	0	0	0	0
DUAL 2 MAGNUM DUAL 2 MAGNUM	1.05 1.36	PT/A PT/A	PRE POST	33	35	28	48	74	50	25
DUAL 2 MAGNUM LOROX	1.05 16	PT/A OZ/A	PRE POST	10	16	38	47	47	72	47
DUAL 2 MAGNUM OUTLOOK	1.05 0.67	PT/A PT/A	PRE POST	25	43	48	74	74	72	72
DUAL 2 MAGNUM NORTRON	1.05 4	PT/A PT/A	PRE POST	13	14	84	28	95	95	50
DUAL 2 MAGNUM SPARTAN	1.05 6.8	PT/A OZ/A	PRE POST	35	55	61	99	72	99	96
OUTLOOK WEEDY CONTROL	0.67	PT/A	PRE	0	0	0	0	0	0	0
OUTLOOK DUAL 2 MAGNUM	0.67 1.36	PT/A PT/A	PRE POST	6	9	28	46	99	70	99
OUTLOOK LOROX	0.67 16	PT/A OZ/A	PRE POST	5	21	70	67	97	92	97
OUTLOOK OUTLOOK	0.67 0.67	PT/A PT/A	PRE POST	13	28	41	67	70	97	72
OUTLOOK NORTRON	0.67 4	PT/A PT/A	PRE POST	15	21	88	68	99	96	97
OUTLOOK SPARTAN	0.67 6.8	PT/A OZ/A	PRE POST	18	71	58	99	99	34	72
LSD (P=.05)				24	27	30	53	46	47	53
Standard Deviation				17	19	21	36	32	32	36
CV				118	72	46	68	47	50	60

# The Ohio State University

## HERBS - POST HERBICIDE TOLERANCE AND WEED CONTROL 1

Trial ID: HERBHTWCCEL 2004

Study Dir: Douglas Doohan and T. Koch

Location: Celeryville, Ohio

Investigator: Douglas Doohan

Weed Code				POROL						
Crop Code				CILAN	AFEGR	PARSS	CILAN	AFEGR	PARSS	ALL
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	WEED
Rating Data Type				HEIGHT	HEIGHT	HEIGHT	YIELD	YIELD	YIELD	WEIGHT
Rating Unit				CM	CM	CM	G	G	G	KG
Rating Date				8/17/04	8/17/04	8/17/04	8/18/04	8/18/04	8/18/04	8/18/04
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	15	16	17	18	19	20	21
DUAL 2 MAGNUM WEEDY CONTROL	1.05	PT/A	PRE	27.1	37.8	16.3	355	420.9	22	4.6
DUAL 2 MAGNUM DUAL 2 MAGNUM	1.05 1.36	PT/A PT/A	PRE POST	20	31.2	14.3	204.2	261.2	15.1	3.1
DUAL 2 MAGNUM LOROX	1.05 16	PT/A OZ/A	PRE POST	24.3	38.8	13.4	331.6	566.4	35.4	2.4
DUAL 2 MAGNUM OUTLOOK	1.05 0.67	PT/A PT/A	PRE POST	21.5	30.9	9.7	169.3	366.9	14.8	2.8
DUAL 2 MAGNUM NORTRON	1.05 4	PT/A PT/A	PRE POST	24.9	37.8	12.4	368.1	439.1	49	0.5
DUAL 2 MAGNUM SPARTAN	1.05 6.8	PT/A OZ/A	PRE POST	11.1	29.4	8.3	17.5	388.5	10	2.3
OUTLOOK WEEDY CONTROL	0.67	PT/A	PRE	26.1	36.9	14.8	240.4	327	13.3	6.8
OUTLOOK DUAL 2 MAGNUM	0.67 1.36	PT/A PT/A	PRE POST	23.9	32.8	12.3	237.6	397.2	18.1	4
OUTLOOK LOROX	0.67 16	PT/A OZ/A	PRE POST	19.8	31.8	10.7	195.7	392.1	33.1	1.4
OUTLOOK OUTLOOK	0.67 0.67	PT/A PT/A	PRE POST	22.2	33.8	10	181.6	409.7	9.9	2.8
OUTLOOK NORTRON	0.67 4	PT/A PT/A	PRE POST	22.9	32.3	10.8	407.4	406	30.6	0.4
OUTLOOK SPARTAN	0.67 6.8	PT/A OZ/A	PRE POST	13.7	35	7.7	33.4	532.9	3.1	2.3
LSD (P=.05)				6.2	10.0	3.6	178.8	299.4	15.1	1.5
Standard Deviation				4.3	7.0	2.5	123.8	207.4	10.5	1.0
CV				20.1	20.4	21.1	54.2	50.7	49.4	36.3

# The Ohio State University

## HERBS - POST HERBICIDE TOLERANCE AND WEED CONTROL 1

Trial ID: HERBHTWCCEL 2004

Study Dir: Douglas Doohan and T. Koch

Location: Celeryville, Ohio

Investigator: Douglas Doohan

Weed Code	AMAXX	CHEAL	GASCI	AGRASS				
Crop Code	ALL	ALL	ALL	ALL				
Part Rated	WEED	WEED	WEED	WEED				
Rating Data Type	WEIGHT	WEIGHT	WEIGHT	WEIGHT				
Rating Unit	KG	KG	KG	KG				
Rating Date	8/18/04	8/18/04	8/18/04	8/18/04				
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	22	23	24	25	
DUAL 2 MAGNUM WEEDY CONTROL	1.05	PT/A	PRE	1.1	0.1	0	0	
DUAL 2 MAGNUM DUAL 2 MAGNUM	1.05 1.36	PT/A PT/A	PRE POST	0.7	0	0.1	0	
DUAL 2 MAGNUM LOROX	1.05 16	PT/A OZ/A	PRE POST	0.4	0	0	0	
DUAL 2 MAGNUM OUTLOOK	1.05 0.67	PT/A PT/A	PRE POST	0.1	0	0	0	
DUAL 2 MAGNUM NORTRON	1.05 4	PT/A PT/A	PRE POST	1.7	0	0	0	
DUAL 2 MAGNUM SPARTAN	1.05 6.8	PT/A OZ/A	PRE POST	0	0.1	0	0	
OUTLOOK WEEDY CONTROL	0.67	PT/A	PRE	0.1	0	0	0	
OUTLOOK DUAL 2 MAGNUM	0.67 1.36	PT/A PT/A	PRE POST	0.1	0	0	0	
OUTLOOK LOROX	0.67 16	PT/A OZ/A	PRE POST	0.2	0	0	0	
OUTLOOK OUTLOOK	0.67 0.67	PT/A PT/A	PRE POST	0.2	0.1	0	0	
OUTLOOK NORTRON	0.67 4	PT/A PT/A	PRE POST	0.3	0	0	0	
OUTLOOK SPARTAN	0.67 6.8	PT/A OZ/A	PRE POST	0	0	0	0.3	
LSD (P=.05)				0.8	0.1	0.1	0.1	
Standard Deviation				0.6	0.1	0.1	0.1	
CV				143.2	382.4	565.1	269.8	

# The Ohio State University

## HERBS- POST HERBICIDE TOLERANCE & WEED CONTROL 2

Trial ID: HERBHTWCCEL 2004      Study Dir: Douglas Doohan and T.Koch

Location: Celeryville, Ohio      Investigator: Douglas Doohan

### TRIAL LOCATION

City: South Willard      Trial Status: Final  
State/Prov: Ohio      Trial Reliability: Reliable  
Postal Code: 44890      Initiation Date: 07/19/04  
Planned Completion Date: 12/01/04

Objective: To assess crop tolerance and weed control using various POST herbicide applications.

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	POROL	common purslane	<i>Portulaca oleracea</i> L.
2	AMAXX	pigweed species	<i>Amaranth</i> spp.
3	AGRASS	crabgrass species	<i>Digitaria</i> spp.
4	GASCI	hairy galinsoga	<i>Galinsoga ciliata</i> (Raf.) Blake
5	CHEAL	common lambsquarter	<i>Chenopodium album</i> L.
6	AMARE	redroot pigweed	<i>Amaranthus retroflexus</i>
7	AMABL	prostrate pigweed	<i>Amaranthus blitoides</i> S.Wats.

Crop 1: CILAN CILANTRO      Variety: SANTOS  
Planting Date: 07/19/04      Planting Method: CONVENTIONAL  
Rate: 12 SEEDS/FT      Depth: 0.50 IN  
Row Spacing: 12 IN.      Seed Bed: CONVENTIONAL  
Soil Moisture: MOIST

Crop 2: AFEGR DILL      Variety: DUKAT  
Planting Date: 07/19/04      Planting Method: CONVENTIONAL  
Rate: 12 SEEDS/FT      Depth: 0.50 IN  
Row Spacing: 12 IN      Seed Bed: CONVENTIONAL

Crop 3: PARSS PARSLEY      Variety: NEW DARK GREEN ITALIAN  
Planting Date: 07/19/04      Planting Method: CONVENTIONAL  
Rate: 12 SEEDS/FT      Depth: 0.50 IN  
Row Spacing: 12 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: SPLIT-PLOT

### SOIL DESCRIPTION

% Sand: 19.2      % OM: 70      Texture: MUCK  
% Silt: 9.3      pH: 5.62      Soil Name: LINWOOD MUCK  
% Clay: 1.5      Fert. Level: HIGH

# The Ohio State University

## HERBS- POST HERBICIDE TOLERANCE & WEED CONTROL 2

### APPLICATION DESCRIPTION

	A	B
Application Date:	7/20/2004	8/15/2004
Time of Day:	3:30 PM	9-10 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	85 F	73 F
% Relative Humidity:	80	53
Wind Velocity, Unit:	7 SW	6 SW
Dew Presence (Y/N):	N	N
% Cloud Cover:	50	50

### CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	CILAN PRE	CILAN POST
Stage Scale:	NONE	6-9 LEAF
Height, Unit:	0 IN	3 IN
Crop 2 Code, Stage:	AFEGR PRE	AFEGR POST
Stage Scale:	NONE	8-10 LEAF
Height, Unit:	0 IN	5 IN
Crop 3 Code, Stage:	PARSS PRE	PARSS POST
Stage Scale:	NONE	2 LEAF
Height, Unit:	0 IN	1 IN

### WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	POROL PRE	POROL POST
Stage Scale:	.	.5 IN
Density, Unit:	. .	HIGH
Weed 2 Code, Stage:	AMAXX PRE	AMAXX POST
Stage Scale:	.	4 IN
Density, Unit:	. .	HIGH
Weed 3 Code, Stage:	AGRAS PRE	AGRAS POST
Stage Scale:	.	2 IN
Density, Unit:	. .	LOW
Weed 4 Code, Stage:	GASCI PRE	GASCI POST
Stage Scale:	.	4 IN
Density, Unit:	. .	LOW
Weed 5 Code, Stage:	CHEAL PRE	CHEAL POST
Stage Scale:	.	4 IN
Density, Unit:	. .	LOW
Weed 6 Code, Stage:	AMARE PRE	AMARE POST
Stage Scale:	.	4 IN
Density, Unit:	. .	HIGH
Weed 7 Code, Stage:	AMABL PRE	AMABL POST
Stage Scale:	.	4 IN
Density, Unit:	. .	HIGH

# The Ohio State University

## HERBS- POST HERBICIDE TOLERANCE & WEED CONTROL 2

### APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	TRACTOR	CO2 BACKPACK
Operating Pressure:	40	35
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	80-3R	8002VS
Nozzle Spacing, Unit:	16 IN	15 IN
Nozzles/Row:	4	4
Band Width, Unit:	5.3 FT	5 FT
Boom Height, Unit:	14 IN	15 IN
Ground Speed, Unit:	2 MPH	3 MPH
Spray Volume, Unit:	46.4 GPA	25 GPA

### Trial Comments

Dual Magnum or Outlook was applied PRE to one-half of each plot on 7/20. POST treatments were applied across the Dual Magnum and Outlook treated areas. Each 6' wide plot contained a single 20' long row of each crop. Crop height taken pre-harvest, is the average of three plants. Weed weights at harvest were taken on a per plot basis for one rep only. The Dual 2 Magnum PRE & POST plot was not harvested by mistake. Yields for the crops were based on a five foot sample in the plot center; the crops were cut at the soil line. Heavy rains this summer affected yields and plant growth in rep 4.



# The Ohio State University

## HERBS- POST HERBICIDE TOLERANCE & WEED CONTROL 2

Trial ID: HERBHTWCCEL 2004

Study Dir: Douglas Doohan and T. Koch

Location: Celeryville, Ohio

Investigator: Douglas Doohan

Weed Code					POROL	AMAXX	CHEAL	GASCI		
Crop Code					ALL	ALL	ALL	ALL		
Part Rated					WEED	WEED	WEED	WEED		
Rating Data Type					CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit					%	%	%	%		
Rating Date					8/24/04	8/24/04	8/24/04	8/24/04		
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6	7
DUAL 2 MAGNUM WEEDY CONTROL	1.05	PT/A	PRE	0	0	0	0	0	0	0
DUAL 2 MAGNUM DUAL 2 MAGNUM	1.05 1.36	PT/A PT/A	PRE POST	6	4	5	24	29	0	0
DUAL 2 MAGNUM LOROX	1.05 16	PT/A OZ/A	PRE POST	3	3	10	66	50	3	5
DUAL 2 MAGNUM OUTLOOK	1.05 0.67	PT/A PT/A	PRE POST	5	10	5	9	23	3	1
DUAL 2 MAGNUM NORTRON	1.05 4	PT/A PT/A	PRE POST	9	5	5	41	18	27	32
DUAL 2 MAGNUM SPARTAN	1.05 6.8	PT/A OZ/A	PRE POST	63	53	70	75	97	61	68
LSD (P=.05)				10	7	11	28	40	38	39
Standard Deviation				7	5	7	19	27	25	26
CV				48	40	46	52	75	163	146

# The Ohio State University

## HERBS- POST HERBICIDE TOLERANCE & WEED CONTROL 2

Trial ID: HERBHTWCCEL 2004

Study Dir: Douglas Doohan and T. Koch

Location: Celeryville, Ohio

Investigator: Douglas Doohan

Weed Code	AGRASS				POROL	AMAXX	CHEAL
Crop Code	ALL	CILAN	AFEGR	PARSS	ALL	ALL	ALL
Part Rated	WEED	PLANT	PLANT	PLANT	WEED	WEED	WEED
Rating Data Type	CONTROL	INJURY	INJURY	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%	%
Rating Date	8/24/04	9/7/04	9/7/04	9/7/04	9/7/04	9/7/04	9/7/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	8	9	10	11	12	13	14
DUAL 2 MAGNUM WEEDY CONTROL	1.05	PT/A	PRE	0	0	18	0	0	0	0
DUAL 2 MAGNUM DUAL 2 MAGNUM	1.05 1.36	PT/A PT/A	PRE POST	25	23	13	0	13	18	0
DUAL 2 MAGNUM LOROX	1.05 16	PT/A OZ/A	PRE POST	50	8	6	0	51	84	60
DUAL 2 MAGNUM OUTLOOK	1.05 0.67	PT/A PT/A	PRE POST	0	21	19	15	0	38	25
DUAL 2 MAGNUM NORTRON	1.05 4	PT/A PT/A	PRE POST	50	20	16	8	85	20	77
DUAL 2 MAGNUM SPARTAN	1.05 6.8	PT/A OZ/A	PRE POST	27	58	26	18	13	94	43
LSD (P=.05)				66	24	25	15	28	41	60
Standard Deviation				44	16	16	10	19	27	40
CV				175	73	101	152	69	64	118

# The Ohio State University

## HERBS- POST HERBICIDE TOLERANCE & WEED CONTROL 2

Trial ID: HERBHTWCCEL 2004

Study Dir: Douglas Doohan and T. Koch

Location: Celeryville, Ohio

Investigator: Douglas Doohan

Weed Code			GASCI	AGRASS							
Crop Code			ALL	ALL	CILAN	AFEGR	PARSS	CILAN	AFEGR		
Part Rated			WEED	WEED	PLANT	PLANT	PLANT	PLANT	PLANT		
Rating Data Type			CONTROL	CONTROL	HEIGHT	HEIGHT	HEIGHT	YIELD	YIELD		
Rating Unit			%	%	CM	CM	CM	G	G		
Rating Date			9/7/04	9/7/04	9/16/04	9/16/04	9/16/04	9/16/04	9/16/04	9/16/04	9/16/04
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	15	16	17	18	19	20	21	
DUAL 2 MAGNUM WEEDY CONTROL	1.05	PT/A	PRE	0	0	32.2	45.5	17.6	474.9	573.8	
DUAL 2 MAGNUM DUAL 2 MAGNUM	1.05 1.36	PT/A PT/A	PRE POST	23	25	28.6	42.3	16.2	648.8	490.5	
DUAL 2 MAGNUM LOROX	1.05 16	PT/A OZ/A	PRE POST	0	67	35.5	39.4	17.1	963.1	494.2	
DUAL 2 MAGNUM OUTLOOK	1.05 0.67	PT/A PT/A	PRE POST	0	0	29.4	36.2	16.7	570.5	391.8	
DUAL 2 MAGNUM NORTON	1.05 4	PT/A PT/A	PRE POST	47	72	32.7	36.9	15.7	745.5	429	
DUAL 2 MAGNUM SPARTAN	1.05 6.8	PT/A OZ/A	PRE POST	43	45	25	38.9	14.3	370.8	612.3	
LSD (P=.05)				57	64	8.5	15.7	4.3	241.6	275.2	
Standard Deviation				38	43	5.6	10.4	2.8	160.4	182.6	
CV				203	122	18.4	26.2	17.5	25.5	36.6	

# The Ohio State University

## HERBS- POST HERBICIDE TOLERANCE & WEED CONTROL 2

Trial ID: HERBHTWCCEL 2004

Study Dir: Douglas Doohan and T. Koch

Location: Celeryville, Ohio

Investigator: Douglas Doohan

Weed Code				POROL	AMABL	AMARE	CHEAL	GASCI	AGRASS	
Crop Code	PARSS	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	
Part Rated	PLANT	WEED	WEED	WEED	WEED	WEED	WEED	WEED	WEED	
Rating Data Type	YIELD	YIELD	YIELD	YIELD	YIELD	YIELD	YIELD	YIELD	YIELD	
Rating Unit	G	KG	KG	KG	KG	KG	KG	KG	KG	
Rating Date	9/16/04	9/16/04	9/16/04	9/16/04	9/16/04	9/16/04	9/16/04	9/16/04	9/16/04	
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	22	23	24	25	26	27	28
DUAL 2 MAGNUM WEEDY CONTROL	1.05	PT/A	PRE	32.6	2.4	0.7	0.4	0	0.4	0
DUAL 2 MAGNUM DUAL 2 MAGNUM	1.05 1.36	PT/A PT/A	PRE POST	47.1	.	.	.	.	.	.
DUAL 2 MAGNUM LOROX	1.05 16	PT/A OZ/A	PRE POST	113.2	0.4	0.5	0.4	0.2	0.1	0
DUAL 2 MAGNUM OUTLOOK	1.05 0.67	PT/A PT/A	PRE POST	56.8	0.9	1.6	0	0	0.1	0
DUAL 2 MAGNUM NORTRON	1.05 4	PT/A PT/A	PRE POST	76.3	0.2	3.2	0	0	0	0
DUAL 2 MAGNUM SPARTAN	1.05 6.8	PT/A OZ/A	PRE POST	71	1.6	0	0	0.2	0.2	0
LSD (P=.05)				27.5	.	.	.	.	.	.
Standard Deviation				18.3	.	.	.	.	.	.
CV				27.6	.	.	.	.	.	.

# The Ohio State University

## LETTUCE - BETWEEN ROW WEED CONTROL

Trial ID: AIMROWMIDCEL 2004

Study Dir: Douglas Doohan and T. Koch

Location: Celeryville, Ohio

Investigator: Douglas Doohan

### TRIAL LOCATION

City: South Willard

Trial Status: Final

State/Prov: Ohio

Trial Reliability: Reliable

Postal Code: 44890

Initiation Date: 07/02/04

Planned Completion Date: 12/1/04

Objective: To assess AIM for between-row weed control as well as crop safety in lettuce.

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	POROL	common purslane	<i>Portulaca oleracea</i> L.
2	AMAXX	pigweed species	<i>Amaranth</i> spp.
3	CHEAL	common lambsquarter	<i>Chenopodium album</i> L.
4	AGRASS	crabgrass species	<i>Digitaria</i> spp.

Crop 1: LACTA LEAF LETTUCE (TRANSPLANTS) Variety: GREEN TOWERS

Planting Date: 07/02/04

Planting Method: CONVENTIONAL

Rate: 1 PLANT/10 IN

Depth: 0.5 IN

Row Spacing: 15 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: 19.2

% OM: 70

Texture: MUCK

% Silt: 9.3

pH: 5.6

Soil Name: LINWOOD MUCK

% Clay: 1.5

Fert. Level: HIGH

### APPLICATION DESCRIPTION

	A	B
Application Date:	7/13/2004	7/26/2004
Time of Day:	11-12 AM	12-1 PM
Application Method:	SPRAY	SPRAY
Application Timing:	POST 1	POST 2
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	87 F	66 F
% Relative Humidity:	64	87
Wind Velocity, Unit:	1 MPH	3 MPH
% Cloud Cover:	50	100

### CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	LACTA POST 1	LACTA POST 2
Stage Scale:	VEGETATIVE	VEGETATIVE
Height, Unit:	8 IN	12 IN

# The Ohio State University

## LETTUCE - BETWEEN ROW WEED CONTROL

### WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	POROL POST 1	POROL POST 2
Stage Scale:	6 IN DIAMETER	14 IN DIAMETER
Density, Unit:	51-100%	HIGH
Weed 2 Code, Stage:	AMAXX POST 1	AMAXX POST 2
Stage Scale:	10 LEAF	7 IN
Density, Unit:	0-20%	LOW
Weed 3 Code, Stage:	CHEAL POST 1	CHEAL POST 2
Stage Scale:	2 IN	5 IN
Density, Unit:	0-20%	LOW
Weed 4 Code, Stage:	AGRAS POST 1	AGRAS POST 2
Stage Scale:	2 IN	6 IN
Density, Unit:	0-20%	LOW

### APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	CO2 BACKPACK	CO2 BACKPACK
Operating Pressure:	35	35
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8002 VS	8002 VS
Nozzles/Row:	1	1
Band Width, Unit:	15 IN	15 IN
Boom Height, Unit:	1 IN	1 IN
Ground Speed, Unit:	3.0 MPH	3.0 MPH
Spray Volume, Unit:	25 GPA	25 GPA

### Trial Comments

Herbicides were selectively applied to weeds between rows with a shielded sprayer. Care was taken to avoid spraying the lettuce by holding the covered boom at an angle and as low as possible over the target weeds. Two POST herbicide applications were made. Lettuce was not harvested.

# The Ohio State University

## LETTUCE - BETWEEN ROW WEED CONTROL

Trial ID: AIMROWMIDCEL 2004

Study Dir: Douglas Doohan and T. Koch

Location: Celeryville, Ohio

Investigator: Douglas Doohan

Weed Code		POROL	AMAXX	CHEAL	AGRASS		POROL	AMAXX
Crop Code	LACTA	LACTA	LACTA	LACTA	LACTA	LACTA	LACTA	LACTA
Part Rated	PLANT	WEED	WEED	WEED	WEED	PLANT	WEED	WEED
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%	%	%
Rating Date	7/19/04	7/19/04	7/19/04	7/19/04	7/19/04	7/26/04	7/26/04	7/26/04

Treatment	Product	Product	Grow								
Name	Rate	Rate Unit	Stg	1	2	3	4	5	6	7	8
AIM+	0.064	PT/A	POST	0	89	99	99	99	0	79	99
COC	2	PT/A	POST								
AIM+	0.096	PT/A	POST	0	89	99	99	99	0	83	99
COC	2	PT/A	POST								
AIM+	0.128	PT/A	POST	0	91	99	99	99	0	85	98
COC	2	PT/A	POST								
AIM+	0.096	PT/A	POST	0	92	99	97	99	0	91	97
SELECT+	1	PT/A	POST								
COC	2	PT/A	POST								
ROUNDUP	20	OZ/A	POST	0	85	99	99	99	0	78	98
W/M											
CONTROL				0	0	0	0	0	0	0	0
LSD (P=.05)				0	8	0	3	0	0	8	2
Standard Deviation				0	5	0	2	0	0	5	2
CV				0	7	0	2	0	0	7	2

# The Ohio State University

## LETTUCE - BETWEEN ROW WEED CONTROL

Trial ID: AIMROWMIDCEL 2004

Study Dir: Douglas Doohan and T. Koch

Location: Celeryville, Ohio

Investigator: Douglas Doohan

Weed Code	CHEAL	AGRASS		POROL	AMAXX	CHEAL	AGRASS
Crop Code	LACTA	LACTA	LACTA	LACTA	LACTA	LACTA	LACTA
Part Rated	WEED	WEED	PLANT	WEED	WEED	WEED	WEED
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%	%
Rating Date	7/26/04	7/26/04	8/17/04	8/17/04	8/17/04	8/17/04	8/17/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	9	10	11	12	13	14	15
AIM+ COC	0.064 2	PT/A PT/A	POST POST	99	99	0	84	94	98	99
AIM+ COC	0.096 2	PT/A PT/A	POST POST	99	99	0	86	96	99	95
AIM+ COC	0.128 2	PT/A PT/A	POST POST	99	99	0	83	96	99	99
AIM+ SELECT+ COC	0.096 1 2	PT/A PT/A PT/A	POST POST POST	97	99	0	99	99	99	99
ROUNDUP W/M	20	OZ/A	POST	99	99	0	78	97	99	99
CONTROL				0	0	0	0	0	0	0
LSD (P=.05)				3	0	0	12	9	1	4
Standard Deviation				2	0	0	8	6	1	3
CV				2	0	0	11	8	1	3



# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004      Study Dir: Douglas Doohan and T. Koch  
Location: Wooster, Ohio      Investigator: Douglas Doohan

### TRIAL LOCATION

City: Wooster      Trial Status: Final  
State/Prov: Ohio      Trial Reliability: Reliable  
Postal Code: 44691      Initiation Date: 05/10/04  
Country: USA      Planned Completion Date: 12/01/04

Objective: Evaluate safety of Callisto+ Atrazine+ COC, and Lumax to sweet corn hybrids.

Crop 1: ZEAMS SWEET CORN      Variety: TEN VARIETIES  
Planting Date: 05/10/04      Planting Method: HAND PLANTED  
Rate: 3 SEEDS/FT      Depth: 1.5 IN  
Row Spacing: 30 IN      Seed Bed: CONVENTIONAL  
Soil Moisture: MOIST      Emergence Date: 05/17/04

### SITE AND DESIGN

Plot Width, Unit: 50 FT      Plot Length, Unit: 20 FT  
Site Type: LEVEL FIELD      Reps: 4  
Tillage Type: CONVENTIONAL      Study Design: SPLIT-PLOT

### SOIL DESCRIPTION

% Sand: 10.7      % OM: 3      Texture: SILT LOAM  
% Silt: 72.8      pH: 6.0      Soil Name: WOOSTER SILT LOAM  
% Clay: 13.6      CEC: 13      Fert. Level: MODERATE

### APPLICATION DESCRIPTION

	A	B
Application Date:	5/12/2004	6/8/2004
Time of Day:	9-10 AM	9-10 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	72 F	75 F
% Relative Humidity:	87	74
Wind Velocity, Unit:	2 MPH	3 MPH
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	0	50

### CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMS PRE	ZEAMS POST
Stage Scale:	NONE	4 COLLAR
Height, Unit:	0 IN	6 IN

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

### APPLICATION EQUIPMENT

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

### Trial Comments

Varieties included in trial, along with harvest dates, (based on average maturity dates) were:

- 1) GH 2547, (8/11)
- 2) Bonus, (8/9)
- 3) Jubilee, (8/3)
- 4) Serendipity, (8/5)
- 5) SS Jubilee Plus, (8/10)
- 6) Prime Plus, (8/2)
- 7) Double Up, (7/29)
- 8) Winstar, (8/4)
- 9) Camas, (8/11)
- 10) Tahoe, (8/3)

Guard row variety was "lochief". Corn was thinned to a density of one plant per twelve inches. Each variety was planted in a single row per plot, alternated with a guard. Corn heights were taken from 5 random plants with corn, (cols.28-32), measured from the soil line to the collar of the most recent fully expanded leaf. The "SS Jubilee Plus" variety appeared weak, even in the controls. Corn was graded according to the following classes:

- 1) Syngenta Fancy, (6.5" long & <1.0 cm. of blank tip)
- 2) U.S.Fancy, (6.0" long ; blank tip not an issue)

Total marketable (MKTB) weight is the sum of SYNGENTA FANCY and U.S FANCY weights, given in tons per acre; ear weights were without husks.

"PRETHIN" = Stand count before thinning

"POST THIN" = Stand count following thinning to one plant per twelve inches.

"AV NO" = Average number

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
	CHLOROSIS	STUNT	TWIST	STAND CT	COLLAR	CHLOROSIS	STUNT
	%	%	%	PRETHIN	AV NO	%	%
	5/24/04	5/24/04	5/24/04	5/25/04	5/25/04	6/3/04	6/3/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	10	11
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### GH 2547

DUAL 2 MAGNUM+	1.68	PT/A	PRE	1	0	0	27	2	1	0
AATREX	2	PT/A	PRE							

### BONUS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	33	2	0	0
AATREX	2	PT/A	PRE							

### JUBILEE

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	3	36	2	0	0
AATREX	2	PT/A	PRE							

### SERENDIPITY

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	5	1	35	2	1	4
AATREX	2	PT/A	PRE							

### SS JUBILEE PLUS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	15	1	28	2	0	14
AATREX	2	PT/A	PRE							

### PRIME TIME

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	3	0	30	2	3	1
AATREX	2	PT/A	PRE							

### DOUBLE UP

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	34	2	0	0
AATREX	2	PT/A	PRE							

### WINSTAR

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	9	3	29	2	0	8
AATREX	2	PT/A	PRE							

### CAMAS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	6	0	29	2	0	6
AATREX	2	PT/A	PRE							

### TAHOE

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	3	0	35	2	0	1
AATREX	2	PT/A	PRE							

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
CHLOROSIS	STUNT	TWIST	STAND CT	COLLAR	CHLOROSIS	STUNT
%	%	%	PRETHIN	AV NO	%	%
5/24/04	5/24/04	5/24/04	5/25/04	5/25/04	6/3/04	6/3/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	10	11	
<b>GH 2547</b>										
LUMAX	3	QT/A	PRE	1	0	0	28	2	1	0
<b>BONUS</b>										
LUMAX	3	QT/A	PRE	1	0	0	32	2	1	0
<b>JUBILEE</b>										
LUMAX	3	QT/A	PRE	1	0	0	39	2	1	0
<b>SERENDIPITY</b>										
LUMAX	3	QT/A	PRE	0	3	0	35	2	0	3
<b>SS JUBILEE PLUS</b>										
LUMAX	3	QT/A	PRE	3	8	1	32	2	3	10
<b>PRIME TIME</b>										
LUMAX	3	QT/A	PRE	1	3	0	30	2	1	3
<b>DOUBLE UP</b>										
LUMAX	3	QT/A	PRE	0	0	0	33	2	0	0
<b>WINSTAR</b>										
LUMAX	3	QT/A	PRE	0	5	0	28	2	0	5
<b>CAMAS</b>										
LUMAX	3	QT/A	PRE	1	4	0	32	2	3	4
<b>TAHOE</b>										
LUMAX	3	QT/A	PRE	0	1	1	32	2	0	1
<b>GH 2547</b>										
LUMAX	6	QT/A	PRE	4	0	0	28	2	0	0
<b>BONUS</b>										
LUMAX	6	QT/A	PRE	10	0	0	30	2	5	0
<b>JUBILEE</b>										
LUMAX	6	QT/A	PRE	8	3	0	28	2	3	0

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type	CHLOROSIS	STUNT	TWIST	STAND CT	COLLAR	CHLOROSIS	STUNT
Rating Unit	%	%	%	PRETHIN	AV NO	%	%
Rating Date	5/24/04	5/24/04	5/24/04	5/25/04	5/25/04	6/3/04	6/3/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	10	11
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### SERENDIPITY

LUMAX	6	QT/A	PRE	5	5	1	35	2	1	3
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### SS JUBILEE PLUS

LUMAX	6	QT/A	PRE	26	14	1	29	1	6	19
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### PRIME TIME

LUMAX	6	QT/A	PRE	6	4	0	31	2	3	4
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### DOUBLE UP

LUMAX	6	QT/A	PRE	1	0	0	33	2	0	0
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### WINSTAR

LUMAX	6	QT/A	PRE	11	11	1	31	2	4	8
-------	---	------	-----	----	----	---	----	---	---	---

### CAMAS

LUMAX	6	QT/A	PRE	13	11	5	26	2	5	11
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### TAHOE

LUMAX	6	QT/A	PRE	4	4	0	32	2	0	3
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### GH 2547

DUAL 2 MAGNUM+	1.68	PT/A	PRE	1	0	1	26	2	0	0
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

### BONUS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	32	2	0	0
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type	CHLOROSIS	STUNT	TWIST	STAND CT	COLLAR	CHLOROSIS	STUNT
Rating Unit	%	%	%	PRETHIN	AV NO	%	%
Rating Date	5/24/04	5/24/04	5/24/04	5/25/04	5/25/04	6/3/04	6/3/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	10	11
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### JUBILEE

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	37	2	0	0
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

### SERENDIPITY

DUAL 2 MAGNUM+	1.68	PT/A	PRE	1	4	0	35	2	0	3
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

### SS JUBILEE PLUS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	3	15	5	28	2	1	18
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

### PRIME TIME

DUAL 2 MAGNUM+	1.68	PT/A	PRE	1	3	1	28	2	0	1
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

### DOUBLE UP

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	34	2	0	0
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type	CHLOROSIS	STUNT	TWIST	STAND CT	COLLAR	CHLOROSIS	STUNT
Rating Unit	%	%	%	PRETHIN	AV NO	%	%
Rating Date	5/24/04	5/24/04	5/24/04	5/25/04	5/25/04	6/3/04	6/3/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	10	11
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### WINSTAR

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	5	0	32	2	0	5
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

### CAMAS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	4	4	28	2	0	3
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

### TAHOE

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	4	0	33	2	0	1
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

### GH 2547

DUAL 2 MAGNUM+	1.68	PT/A	PRE	2	0	0	27	2	2	0
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							

### BONUS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	33	2	0	0
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							

# The Ohio State University

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Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type	CHLOROSIS	STUNT	TWIST	STAND CT	COLLAR	CHLOROSIS	STUNT
Rating Unit	%	%	%	PRETHIN	AV NO	%	%
Rating Date	5/24/04	5/24/04	5/24/04	5/25/04	5/25/04	6/3/04	6/3/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	10	11
----------------	--------------	-------------------	----------	---	---	---	---	----	----

### JUBILEE

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	3	1	37	2	0	0
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							

### SERENDIPITY

DUAL 2 MAGNUM+	1.68	PT/A	PRE	1	6	4	36	2	0	5
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							

### SS JUBILEE PLUS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	4	15	0	24	2	4	14
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							

### PRIME TIME

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	5	0	27	2	0	4
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							

### DOUBLE UP

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	31	2	0	0
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							



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Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
	CHLOROSIS	STUNT	TWIST	STAND CT	COLLAR	CHLOROSIS	STUNT
	%	%	%	PRETHIN	AV NO	%	%
	5/24/04	5/24/04	5/24/04	5/25/04	5/25/04	6/3/04	6/3/04

Treatment	Product	Product	Grow							
Name	Rate	Rate Unit	Stg	1	2	3	4		10	11

### WINSTAR

DUAL 2 MAGNUM+	1.68	PT/A	PRE	3	10	8	30	2	0	8
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							

### CAMAS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	1	6	6	30	2	0	4
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							

### TAHOE

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	1	0	35	2	0	1
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							

LSD (P=.05)	7	4	3	5	0	3	5
Standard Deviation	5	3	2	3	0	2	3
CV	226	77	245	11	13	210	97

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	LEAF
TWIST	CHLOROSIS	STUNT	TWIST	BUGGY WHIP	BURN	WRINKLE
%	%	%	%	%	%	%
6/3/04	6/15/04	6/15/04	6/15/04	6/15/04	6/15/04	6/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	12	13	14	15	16	17	18
<b>GH 2547</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	2	PT/A	PRE							
<b>BONUS</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	2	PT/A	PRE							
<b>JUBILEE</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	3	0	0	0	0	0	0
AATREX	2	PT/A	PRE							
<b>SERENDIPITY</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	1	0	0	0	0	0	0
AATREX	2	PT/A	PRE							
<b>SS JUBILEE PLUS</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	11	0	0	0	0	0	0
AATREX	2	PT/A	PRE							
<b>PRIME TIME</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	2	PT/A	PRE							
<b>DOUBLE UP</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	2	PT/A	PRE							
<b>WINSTAR</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	1	0	0	0	0	0	0
AATREX	2	PT/A	PRE							
<b>CAMAS</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	6	0	0	0	0	0	0
AATREX	2	PT/A	PRE							
<b>TAHOE</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	2	PT/A	PRE							

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	LEAF
TWIST	CHLOROSIS	STUNT	TWIST	BUGGY WHIP	BURN	WRINKLE
%	%	%	%	%	%	%
6/3/04	6/15/04	6/15/04	6/15/04	6/15/04	6/15/04	6/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	12	13	14	15	16	17	18
<b>GH 2547</b>										
LUMAX	3	QT/A	PRE	0	0	0	0	0	0	0
<b>BONUS</b>										
LUMAX	3	QT/A	PRE	0	0	0	0	0	0	0
<b>JUBILEE</b>										
LUMAX	3	QT/A	PRE	0	0	0	0	0	0	0
<b>SERENDIPITY</b>										
LUMAX	3	QT/A	PRE	0	0	0	0	0	0	0
<b>SS JUBILEE PLUS</b>										
LUMAX	3	QT/A	PRE	0	0	0	0	0	0	0
<b>PRIME TIME</b>										
LUMAX	3	QT/A	PRE	1	0	0	0	0	0	0
<b>DOUBLE UP</b>										
LUMAX	3	QT/A	PRE	0	0	0	0	0	0	0
<b>WINSTAR</b>										
LUMAX	3	QT/A	PRE	0	0	0	0	0	0	0
<b>CAMAS</b>										
LUMAX	3	QT/A	PRE	0	0	0	0	0	0	0
<b>TAHOE</b>										
LUMAX	3	QT/A	PRE	0	3	0	0	0	0	0
<b>GH 2547</b>										
LUMAX	6	QT/A	PRE	0	0	0	0	0	0	0
<b>BONUS</b>										
LUMAX	6	QT/A	PRE	0	0	0	0	0	0	0
<b>JUBILEE</b>										
LUMAX	6	QT/A	PRE	0	0	5	0	0	0	0

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Trial ID: SCCALLUMW 2004

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Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	LEAF
TWIST	CHLOROSIS	STUNT	TWIST	BUGGY WHIP	BURN	WRINKLE
%	%	%	%	%	%	%
6/3/04	6/15/04	6/15/04	6/15/04	6/15/04	6/15/04	6/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	12	13	14	15	16	17	18
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### SERENDIPITY

LUMAX	6	QT/A	PRE	1	0	8	0	0	0	0
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### SS JUBILEE PLUS

LUMAX	6	QT/A	PRE	1	0	9	0	0	0	0
-------	---	------	-----	---	---	---	---	---	---	---

### PRIME TIME

LUMAX	6	QT/A	PRE	0	0	0	0	0	0	0
-------	---	------	-----	---	---	---	---	---	---	---

### DOUBLE UP

LUMAX	6	QT/A	PRE	0	0	0	0	0	0	0
-------	---	------	-----	---	---	---	---	---	---	---

### WINSTAR

LUMAX	6	QT/A	PRE	0	0	0	0	0	0	0
-------	---	------	-----	---	---	---	---	---	---	---

### CAMAS

LUMAX	6	QT/A	PRE	4	0	10	3	0	0	0
-------	---	------	-----	---	---	----	---	---	---	---

### TAHOE

LUMAX	6	QT/A	PRE	0	0	0	0	0	0	0
-------	---	------	-----	---	---	---	---	---	---	---

### GH 2547

DUAL 2 MAGNUM+	1.68	PT/A	PRE	1	0	0	0	0	0	0
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

### BONUS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

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Trial ID: SCCALLUMW 2004

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Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	LEAF
TWIST	CHLOROSIS	STUNT	TWIST	BUGGY WHIP	BURN	WRINKLE
%	%	%	%	%	%	%
6/3/04	6/15/04	6/15/04	6/15/04	6/15/04	6/15/04	6/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	12	13	14	15	16	17	18
<b>JUBILEE</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							
<b>SERENDIPITY</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	4	0	0	0	0
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							
<b>SS JUBILEE PLUS</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	11	1	3	0	0	0	0
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							
<b>PRIME TIME</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	3	0	0	0	0
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							
<b>DOUBLE UP</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

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Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	LEAF
TWIST	CHLOROSIS	STUNT	TWIST	BUGGY WHIP	BURN	WRINKLE
%	%	%	%	%	%	%
6/3/04	6/15/04	6/15/04	6/15/04	6/15/04	6/15/04	6/15/04

Treatment	Product	Product	Grow	12	13	14	15	16	17	18
Name	Rate	Rate Unit	Stg							

### WINSTAR

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

### CAMAS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	4	3	3	0	0	0	0
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

### TAHOE

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	1	3	0	0	0	0
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

### GH 2547

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							

### BONUS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							

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Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	LEAF
TWIST	CHLOROSIS	STUNT	TWIST	BUGGY WHIP	BURN	WRINKLE
%	%	%	%	%	%	%
6/3/04	6/15/04	6/15/04	6/15/04	6/15/04	6/15/04	6/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	12	13	14	15	16	17	18
<b>JUBILEE</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	1	4	3	0	0	0	0
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							
<b>SERENDIPITY</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	4	0	3	0	0	0	0
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							
<b>SS JUBILEE PLUS</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	4	16	15	0	1	0	0
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							
<b>PRIME TIME</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	3	3	0	0	0	0
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							
<b>DOUBLE UP</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							

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Trial ID: SCCALLUMW 2004

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Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	LEAF
TWIST	CHLOROSIS	STUNT	TWIST	BUGGY WHIP	BURN	WRINKLE
%	%	%	%	%	%	%
6/3/04	6/15/04	6/15/04	6/15/04	6/15/04	6/15/04	6/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	12	13	14	15	16	17	18
----------------	--------------	-------------------	----------	----	----	----	----	----	----	----

### WINSTAR

DUAL 2 MAGNUM+	1.68	PT/A	PRE	8	9	4	0	8	0	0
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							

### CAMAS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	4	3	4	0	3	0	0
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							

### TAHOE

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	4	3	3	0	0	0
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							

LSD (P=.05)	4	4	7	1	2	0	0
Standard Deviation	3	3	5	1	2	0	0
CV	198	302	297	1003	694	0	0



# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
	CHLOROSIS	STUNT	TWIST	BUGGY WHIP	CHLOROSIS	STUNT	TWIST
	%	%	%	%	%	%	%
	6/24/04	6/24/04	6/24/04	6/24/04	7/9/04	7/9/04	7/9/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19	20	21	22	23	24	25
<b>GH 2547</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	2	PT/A	PRE							
<b>BONUS</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	2	PT/A	PRE							
<b>JUBILEE</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	2	PT/A	PRE							
<b>SERENDIPITY</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	2	PT/A	PRE							
<b>SS JUBILEE PLUS</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	2	PT/A	PRE							
<b>PRIME TIME</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	2	PT/A	PRE							
<b>DOUBLE UP</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	2	PT/A	PRE							
<b>WINSTAR</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	2	PT/A	PRE							
<b>CAMAS</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	2	PT/A	PRE							
<b>TAHOE</b>										
DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	2	PT/A	PRE							

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
CHLOROSIS	STUNT	TWIST	BUGGY WHIP	CHLOROSIS	STUNT	TWIST
%	%	%	%	%	%	%
6/24/04	6/24/04	6/24/04	6/24/04	7/9/04	7/9/04	7/9/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19	20	21	22	23	24	25
<b>GH 2547</b>										
LUMAX	3	QT/A	PRE	0	0	0	0	0	0	0
<b>BONUS</b>										
LUMAX	3	QT/A	PRE	0	0	0	0	0	0	0
<b>JUBILEE</b>										
LUMAX	3	QT/A	PRE	0	0	0	0	0	0	0
<b>SERENDIPITY</b>										
LUMAX	3	QT/A	PRE	0	4	0	0	0	0	0
<b>SS JUBILEE PLUS</b>										
LUMAX	3	QT/A	PRE	0	3	0	0	0	0	0
<b>PRIME TIME</b>										
LUMAX	3	QT/A	PRE	0	0	0	0	0	0	0
<b>DOUBLE UP</b>										
LUMAX	3	QT/A	PRE	0	0	0	0	0	0	0
<b>WINSTAR</b>										
LUMAX	3	QT/A	PRE	0	0	0	0	0	0	0
<b>CAMAS</b>										
LUMAX	3	QT/A	PRE	0	0	0	0	0	0	0
<b>TAHOE</b>										
LUMAX	3	QT/A	PRE	0	0	0	0	0	0	0
<b>GH 2547</b>										
LUMAX	6	QT/A	PRE	0	0	0	0	0	0	0
<b>BONUS</b>										
LUMAX	6	QT/A	PRE	0	3	0	0	0	0	0
<b>JUBILEE</b>										
LUMAX	6	QT/A	PRE	0	4	0	0	0	0	0

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type	CHLOROSIS	STUNT	TWIST	BUGGY WHIP	CHLOROSIS	STUNT	TWIST
Rating Unit	%	%	%	%	%	%	%
Rating Date	6/24/04	6/24/04	6/24/04	6/24/04	7/9/04	7/9/04	7/9/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19	20	21	22	23	24	25
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### SERENDIPITY

LUMAX	6	QT/A	PRE	0	6	0	0	0	0	0
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### SS JUBILEE PLUS

LUMAX	6	QT/A	PRE	0	4	0	0	0	0	0
-------	---	------	-----	---	---	---	---	---	---	---

### PRIME TIME

LUMAX	6	QT/A	PRE	0	0	0	0	0	0	0
-------	---	------	-----	---	---	---	---	---	---	---

### DOUBLE UP

LUMAX	6	QT/A	PRE	0	3	0	0	0	0	0
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### WINSTAR

LUMAX	6	QT/A	PRE	0	3	0	0	0	0	0
-------	---	------	-----	---	---	---	---	---	---	---

### CAMAS

LUMAX	6	QT/A	PRE	0	10	0	0	0	0	0
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### TAHOE

LUMAX	6	QT/A	PRE	0	3	0	0	0	0	0
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### GH 2547

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	4	0	0	0	0	0
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

### BONUS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	4	0	0	0	0	0
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type	CHLOROSIS	STUNT	TWIST	BUGGY WHIP	CHLOROSIS	STUNT	TWIST
Rating Unit	%	%	%	%	%	%	%
Rating Date	6/24/04	6/24/04	6/24/04	6/24/04	7/9/04	7/9/04	7/9/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19	20	21	22	23	24	25
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### JUBILEE

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	4	0	0	0	0	0
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

### SERENDIPITY

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	5	0	0	0	0	0
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

### SS JUBILEE PLUS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	6	0	0	0	0	0
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

### PRIME TIME

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	3	0	0	0	0	0
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

### DOUBLE UP

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
CHLOROSIS	STUNT	TWIST	BUGGY WHIP	CHLOROSIS	STUNT	TWIST
%	%	%	%	%	%	%
6/24/04	6/24/04	6/24/04	6/24/04	7/9/04	7/9/04	7/9/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19	20	21	22	23	24	25
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### WINSTAR

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	5	0	0	0	0	0
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

### CAMAS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	4	0	0	0	0	0
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

### TAHOE

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	4	0	0	0	0	0
AATREX	2	PT/A	PRE							
CALLISTO+	3	OZ/A	POST							
AATREX+	0.5	PT/A	POST							
COC	2	PT/A	POST							

### GH 2547

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							

### BONUS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type	CHLOROSIS	STUNT	TWIST	BUGGY WHIP	CHLOROSIS	STUNT	TWIST
Rating Unit	%	%	%	%	%	%	%
Rating Date	6/24/04	6/24/04	6/24/04	6/24/04	7/9/04	7/9/04	7/9/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19	20	21	22	23	24	25
----------------	--------------	-------------------	----------	----	----	----	----	----	----	----

### JUBILEE

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							

### SERENDIPITY

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	4	0	0	0	0	0
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							

### SS JUBILEE PLUS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	15	0	0	0	0	0
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							

### PRIME TIME

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	9	0	0	0	0	0
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							

### DOUBLE UP

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
CHLOROSIS	STUNT	TWIST	BUGGY WHIP	CHLOROSIS	STUNT	TWIST
%	%	%	%	%	%	%
6/24/04	6/24/04	6/24/04	6/24/04	7/9/04	7/9/04	7/9/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19	20	21	22	23	24	25
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### WINSTAR

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	13	0	0	0	0	0
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							

### CAMAS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	3	0	0	0	0	0
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							

### TAHOE

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0	0	0	0	0	0
AATREX	1.5	PT/A	PRE							
CALLISTO+	6	OZ/A	POST							
AATREX+	1	PT/A	POST							
COC	2	PT/A	POST							

LSD (P=.05)	0	6	0	0	0	0	0	0	0
Standard Deviation	0	4	0	0	0	0	0	0	0
CV	0	167	0	0	0	0	0	0	0

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
PLANT	PLANT	PLANT	EARS	EARS
BUGGY WHIP	AV HEIGHT	STAND CT	SYNG FANCY	SYNG FANCY
%	FT	POSTTHIN	NO/PLOT	LBS/PLOT
7/9/04	7/19/04	7/19/04	8/15/04	8/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	26	32	33	34
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### **GH 2547**

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	7.1	23	3	1.9
AATREX	2	PT/A	PRE					

### **BONUS**

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	6	25	13	7.8
AATREX	2	PT/A	PRE					

### **JUBILEE**

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	6.3	26	20	9.2
AATREX	2	PT/A	PRE					

### **SERENDIPITY**

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	5.5	24	12	5.7
AATREX	2	PT/A	PRE					

### **SS JUBILEE PLUS**

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	5.9	21	8	4.6
AATREX	2	PT/A	PRE					

### **PRIME TIME**

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	5.6	25	20	8.3
AATREX	2	PT/A	PRE					

### **DOUBLE UP**

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	5.5	25	18	8.1
AATREX	2	PT/A	PRE					

### **WINSTAR**

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	5.4	23	7	3.2
AATREX	2	PT/A	PRE					

### **CAMAS**

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	5.4	22	14	8
AATREX	2	PT/A	PRE					

### **TAHOE**

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	6.1	30	17	6.5
AATREX	2	PT/A	PRE					



# The Ohio State University

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Trial ID: SCCALLUMW 2004

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Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
PLANT	PLANT	PLANT	EARS	EARS
BUGGY WHIP	AV HEIGHT	STAND CT	SYNG FANCY	SYNG FANCY
%	FT	POSTTHIN	NO/PLOT	LBS/PLOT
7/9/04	7/19/04	7/19/04	8/15/04	8/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	26	32	33	34
<b>GH 2547</b>							
LUMAX	3	QT/A	PRE	0	6	24	5.1
<b>BONUS</b>							
LUMAX	3	QT/A	PRE	0	6.2	27	5.8
<b>JUBILEE</b>							
LUMAX	3	QT/A	PRE	0	6.6	30	8.3
<b>SERENDIPITY</b>							
LUMAX	3	QT/A	PRE	0	5.7	24	7.6
<b>SS JUBILEE PLUS</b>							
LUMAX	3	QT/A	PRE	0	6.3	27	6.5
<b>PRIME TIME</b>							
LUMAX	3	QT/A	PRE	0	5.8	23	8.1
<b>DOUBLE UP</b>							
LUMAX	3	QT/A	PRE	0	5.7	24	11.4
<b>WINSTAR</b>							
LUMAX	3	QT/A	PRE	0	5.5	22	6.1
<b>CAMAS</b>							
LUMAX	3	QT/A	PRE	0	5.6	25	6.7
<b>TAHOE</b>							
LUMAX	3	QT/A	PRE	0	6.5	26	9.3
<b>GH 2547</b>							
LUMAX	6	QT/A	PRE	0	7.4	25	0.8
<b>BONUS</b>							
LUMAX	6	QT/A	PRE	0	6.1	24	6.8
<b>JUBILEE</b>							
LUMAX	6	QT/A	PRE	0	6.3	20	5.9

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

ZEAMS PLANT	ZEAMS PLANT	ZEAMS PLANT	ZEAMS EARS	ZEAMS EARS
BUGGY WHIP	AV HEIGHT	STAND CT	SYNG FANCY	SYNG FANCY
%	FT	POSTTHIN	NO/PLOT	LBS/PLOT
7/9/04	7/19/04	7/19/04	8/15/04	8/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	26	32	33	34
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### SERENDIPITY

LUMAX	6	QT/A	PRE	0	5.5	25	15	7.2
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### SS JUBILEE PLUS

LUMAX	6	QT/A	PRE	0	6	24	9	5.5
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### PRIME TIME

LUMAX	6	QT/A	PRE	0	5.6	26	20	8
-------	---	------	-----	---	-----	----	----	---

### DOUBLE UP

LUMAX	6	QT/A	PRE	0	5.4	25	21	9.5
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### WINSTAR

LUMAX	6	QT/A	PRE	0	5.3	25	10	4.5
-------	---	------	-----	---	-----	----	----	-----

### CAMAS

LUMAX	6	QT/A	PRE	0	5.3	22	13	7.3
-------	---	------	-----	---	-----	----	----	-----

### TAHOE

LUMAX	6	QT/A	PRE	0	6.3	25	20	8
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### GH 2547

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	7.2	21	1	1
AATREX	2	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
AATREX+	0.5	PT/A	POST					
COC	2	PT/A	POST					

### BONUS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	5.9	24	13	7.8
AATREX	2	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
AATREX+	0.5	PT/A	POST					
COC	2	PT/A	POST					

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
PLANT	PLANT	PLANT	EARS	EARS
BUGGY WHIP	AV HEIGHT	STAND CT	SYNG FANCY	SYNG FANCY
%	FT	POSTTHIN	NO/PLOT	LBS/PLOT
7/9/04	7/19/04	7/19/04	8/15/04	8/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	26	32	33	34
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### JUBILEE

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	6.4	24	19	8.3
AATREX	2	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
AATREX+	0.5	PT/A	POST					
COC	2	PT/A	POST					

### SERENDIPITY

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	5.6	28	15	7.4
AATREX	2	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
AATREX+	0.5	PT/A	POST					
COC	2	PT/A	POST					

### SS JUBILEE PLUS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	6.1	24	9	5.2
AATREX	2	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
AATREX+	0.5	PT/A	POST					
COC	2	PT/A	POST					

### PRIME TIME

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	5.9	24	21	9
AATREX	2	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
AATREX+	0.5	PT/A	POST					
COC	2	PT/A	POST					

### DOUBLE UP

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	5.6	27	23	10.7
AATREX	2	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
AATREX+	0.5	PT/A	POST					
COC	2	PT/A	POST					

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
PLANT	PLANT	PLANT	EARS	EARS
BUGGY WHIP	AV HEIGHT	STAND CT	SYNG FANCY	SYNG FANCY
%	FT	POSTTHIN	NO/PLOT	LBS/PLOT
7/9/04	7/19/04	7/19/04	8/15/04	8/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	26	32	33	34
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### WINSTAR

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	5.5	25	12	5.5
AATREX	2	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
AATREX+	0.5	PT/A	POST					
COC	2	PT/A	POST					

### CAMAS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	5.5	20	15	8.1
AATREX	2	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
AATREX+	0.5	PT/A	POST					
COC	2	PT/A	POST					

### TAHOE

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	6.6	26	20	7.9
AATREX	2	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
AATREX+	0.5	PT/A	POST					
COC	2	PT/A	POST					

### GH 2547

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	7.4	23	1	0.9
AATREX	1.5	PT/A	PRE					
CALLISTO+	6	OZ/A	POST					
AATREX+	1	PT/A	POST					
COC	2	PT/A	POST					

### BONUS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	6.3	27	13	8.1
AATREX	1.5	PT/A	PRE					
CALLISTO+	6	OZ/A	POST					
AATREX+	1	PT/A	POST					
COC	2	PT/A	POST					

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
PLANT	PLANT	PLANT	EARS	EARS
BUGGY WHIP	AV HEIGHT	STAND CT	SYNG FANCY	SYNG FANCY
%	FT	POSTTHIN	NO/PLOT	LBS/PLOT
7/9/04	7/19/04	7/19/04	8/15/04	8/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	26	32	33	34
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### JUBILEE

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	6.6	28	17	8.4
AATREX	1.5	PT/A	PRE					
CALLISTO+	6	OZ/A	POST					
AATREX+	1	PT/A	POST					
COC	2	PT/A	POST					

### SERENDIPITY

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	5.6	26	17	8.4
AATREX	1.5	PT/A	PRE					
CALLISTO+	6	OZ/A	POST					
AATREX+	1	PT/A	POST					
COC	2	PT/A	POST					

### SS JUBILEE PLUS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	5.9	19	11	6.2
AATREX	1.5	PT/A	PRE					
CALLISTO+	6	OZ/A	POST					
AATREX+	1	PT/A	POST					
COC	2	PT/A	POST					

### PRIME TIME

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	5.7	24	18	7.6
AATREX	1.5	PT/A	PRE					
CALLISTO+	6	OZ/A	POST					
AATREX+	1	PT/A	POST					
COC	2	PT/A	POST					

### DOUBLE UP

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	5.6	23	20	10
AATREX	1.5	PT/A	PRE					
CALLISTO+	6	OZ/A	POST					
AATREX+	1	PT/A	POST					
COC	2	PT/A	POST					

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
PLANT	PLANT	PLANT	EARS	EARS
BUGGY WHIP	AV HEIGHT	STAND CT	SYNG FANCY	SYNG FANCY
%	FT	POSTTHIN	NO/PLOT	LBS/PLOT
7/9/04	7/19/04	7/19/04	8/15/04	8/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	26	32	33	34
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### WINSTAR

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	5.4	22	11	5.2
AATREX	1.5	PT/A	PRE					
CALLISTO+	6	OZ/A	POST					
AATREX+	1	PT/A	POST					
COC	2	PT/A	POST					

### CAMAS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	5.5	23	16	9
AATREX	1.5	PT/A	PRE					
CALLISTO+	6	OZ/A	POST					
AATREX+	1	PT/A	POST					
COC	2	PT/A	POST					

### TAHOE

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	6.6	32	20	7.5
AATREX	1.5	PT/A	PRE					
CALLISTO+	6	OZ/A	POST					
AATREX+	1	PT/A	POST					
COC	2	PT/A	POST					

LSD (P=.05)	0	0.5	5	6	2.7
Standard Deviation	0	0.4	4	4	1.9
CV	0	6.1	16	28	28.1

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
	EARS	EARS	EARS	EARS	EARS
	US FANCY	US FANCY	TTL MKTB	TTL MKTB	TTL MKTB
	NO/PLOT	LBS/PLOT	NO/PLOT	LBS/PLOT	TONS/ACRE
	8/15/04	8/15/04	8/15/04	8/15/04	8/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	35	36	39	40	41
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### **GH 2547**

DUAL 2 MAGNUM+	1.68	PT/A	PRE	19	10.9	22	12.8	5.6
AATREX	2	PT/A	PRE					

### **BONUS**

DUAL 2 MAGNUM+	1.68	PT/A	PRE	12	6.5	25	14.3	6.3
AATREX	2	PT/A	PRE					

### **JUBILEE**

DUAL 2 MAGNUM+	1.68	PT/A	PRE	5	1.9	25	9.5	4.2
AATREX	2	PT/A	PRE					

### **SERENDIPITY**

DUAL 2 MAGNUM+	1.68	PT/A	PRE	6	2.5	18	8.3	3.6
AATREX	2	PT/A	PRE					

### **SS JUBILEE PLUS**

DUAL 2 MAGNUM+	1.68	PT/A	PRE	11	5.5	19	10.2	4.4
AATREX	2	PT/A	PRE					

### **PRIME TIME**

DUAL 2 MAGNUM+	1.68	PT/A	PRE	0	0.1	20	8.4	3.7
AATREX	2	PT/A	PRE					

### **DOUBLE UP**

DUAL 2 MAGNUM+	1.68	PT/A	PRE	4	1.3	22	9.5	4.1
AATREX	2	PT/A	PRE					

### **WINSTAR**

DUAL 2 MAGNUM+	1.68	PT/A	PRE	4	1.7	11	4.7	2.1
AATREX	2	PT/A	PRE					

### **CAMAS**

DUAL 2 MAGNUM+	1.68	PT/A	PRE	3	1.6	18	9.6	4.2
AATREX	2	PT/A	PRE					

### **TAHOE**

DUAL 2 MAGNUM+	1.68	PT/A	PRE	3	1	20	7.6	3.3
AATREX	2	PT/A	PRE					

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
EARS	EARS	EARS	EARS	EARS
US FANCY	US FANCY	TTL MKTB	TTL MKTB	TTL MKTB
NO/PLOT	LBS/PLOT	NO/PLOT	LBS/PLOT	TONS/ACRE
8/15/04	8/15/04	8/15/04	8/15/04	8/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	35	36	39	40	41
<b>GH 2547</b>								
LUMAX	3	QT/A	PRE	14	8.5	22	13.6	5.9
<b>BONUS</b>								
LUMAX	3	QT/A	PRE	17	6.6	26	12.4	5.4
<b>JUBILEE</b>								
LUMAX	3	QT/A	PRE	7	3.3	24	11.6	5
<b>SERENDIPITY</b>								
LUMAX	3	QT/A	PRE	7	3.2	22	10.8	4.7
<b>SS JUBILEE PLUS</b>								
LUMAX	3	QT/A	PRE	13	6.7	24	13.2	5.7
<b>PRIME TIME</b>								
LUMAX	3	QT/A	PRE	0	0.1	19	8.2	3.6
<b>DOUBLE UP</b>								
LUMAX	3	QT/A	PRE	1	0.2	24	11.6	5.1
<b>WINSTAR</b>								
LUMAX	3	QT/A	PRE	6	2.4	18	8.5	3.7
<b>CAMAS</b>								
LUMAX	3	QT/A	PRE	11	5.5	23	12.2	5.3
<b>TAHOE</b>								
LUMAX	3	QT/A	PRE	2	0.5	25	9.9	4.3
<b>GH 2547</b>								
LUMAX	6	QT/A	PRE	23	13.9	24	14.8	6.4
<b>BONUS</b>								
LUMAX	6	QT/A	PRE	13	6.9	24	13.8	6
<b>JUBILEE</b>								
LUMAX	6	QT/A	PRE	8	3.1	20	9	3.9



# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
EARS	EARS	EARS	EARS	EARS
US FANCY	US FANCY	TTL MKTB	TTL MKTB	TTL MKTB
NO/PLOT	LBS/PLOT	NO/PLOT	LBS/PLOT	TONS/ACRE
8/15/04	8/15/04	8/15/04	8/15/04	8/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	35	36	39	40	41
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### SERENDIPITY

LUMAX	6	QT/A	PRE	8	3.4	23	10.6	4.6
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### SS JUBILEE PLUS

LUMAX	6	QT/A	PRE	11	5.2	20	10.6	4.6
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### PRIME TIME

LUMAX	6	QT/A	PRE	0	0.1	21	8.1	3.5
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### DOUBLE UP

LUMAX	6	QT/A	PRE	2	0.6	23	10.1	4.4
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### WINSTAR

LUMAX	6	QT/A	PRE	8	3.5	18	8	3.5
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### CAMAS

LUMAX	6	QT/A	PRE	6	2.9	19	10.2	4.5
-------	---	------	-----	---	-----	----	------	-----

### TAHOE

LUMAX	6	QT/A	PRE	3	0.8	23	8.9	3.9
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### GH 2547

DUAL 2 MAGNUM+	1.68	PT/A	PRE	19	10.7	20	11.7	5.1
AATREX	2	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
AATREX+	0.5	PT/A	POST					
COC	2	PT/A	POST					

### BONUS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	12	6.1	24	14	6.1
AATREX	2	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
AATREX+	0.5	PT/A	POST					
COC	2	PT/A	POST					

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
	EARS	EARS	EARS	EARS	EARS
	US FANCY	US FANCY	TTL MKTB	TTL MKTB	TTL MKTB
	NO/PLOT	LBS/PLOT	NO/PLOT	LBS/PLOT	TONS/ACRE
	8/15/04	8/15/04	8/15/04	8/15/04	8/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	35	36	39	40	41
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### JUBILEE

DUAL 2 MAGNUM+	1.68	PT/A	PRE	4	1.6	23	9.9	4.3
AATREX	2	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
AATREX+	0.5	PT/A	POST					
COC	2	PT/A	POST					

### SERENDIPITY

DUAL 2 MAGNUM+	1.68	PT/A	PRE	8	3.4	23	10.8	4.7
AATREX	2	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
AATREX+	0.5	PT/A	POST					
COC	2	PT/A	POST					

### SS JUBILEE PLUS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	14	6.6	22	11.8	5.1
AATREX	2	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
AATREX+	0.5	PT/A	POST					
COC	2	PT/A	POST					

### PRIME TIME

DUAL 2 MAGNUM+	1.68	PT/A	PRE	1	0.2	22	9.2	4
AATREX	2	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
AATREX+	0.5	PT/A	POST					
COC	2	PT/A	POST					

### DOUBLE UP

DUAL 2 MAGNUM+	1.68	PT/A	PRE	1	0.3	24	11	4.8
AATREX	2	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
AATREX+	0.5	PT/A	POST					
COC	2	PT/A	POST					

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
	EARS	EARS	EARS	EARS	EARS
	US FANCY	US FANCY	TTL MKTB	TTL MKTB	TTL MKTB
	NO/PLOT	LBS/PLOT	NO/PLOT	LBS/PLOT	TONS/ACRE
	8/15/04	8/15/04	8/15/04	8/15/04	8/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	35	36	39	40	41
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### WINSTAR

DUAL 2 MAGNUM+	1.68	PT/A	PRE	5	2	17	7.5	3.3
AATREX	2	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
AATREX+	0.5	PT/A	POST					
COC	2	PT/A	POST					

### CAMAS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	3	1.4	17	9.6	4.2
AATREX	2	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
AATREX+	0.5	PT/A	POST					
COC	2	PT/A	POST					

### TAHOE

DUAL 2 MAGNUM+	1.68	PT/A	PRE	1	0.3	21	8.2	3.6
AATREX	2	PT/A	PRE					
CALLISTO+	3	OZ/A	POST					
AATREX+	0.5	PT/A	POST					
COC	2	PT/A	POST					

### GH 2547

DUAL 2 MAGNUM+	1.68	PT/A	PRE	23	13.9	24	14.8	6.5
AATREX	1.5	PT/A	PRE					
CALLISTO+	6	OZ/A	POST					
AATREX+	1	PT/A	POST					
COC	2	PT/A	POST					

### BONUS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	13	7	26	16.6	7.2
AATREX	1.5	PT/A	PRE					
CALLISTO+	6	OZ/A	POST					
AATREX+	1	PT/A	POST					
COC	2	PT/A	POST					

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated	EARS	EARS	EARS	EARS	EARS
Rating Data Type	US FANCY	US FANCY	TTL MKTB	TTL MKTB	TTL MKTB
Rating Unit	NO/PLOT	LBS/PLOT	NO/PLOT	LBS/PLOT	TONS/ACRE
Rating Date	8/15/04	8/15/04	8/15/04	8/15/04	8/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	35	36	39	40	41
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### JUBILEE

DUAL 2 MAGNUM+	1.68	PT/A	PRE	6	2.3	23	10.8	4.7
AATREX	1.5	PT/A	PRE					
CALLISTO+	6	OZ/A	POST					
AATREX+	1	PT/A	POST					
COC	2	PT/A	POST					

### SERENDIPITY

DUAL 2 MAGNUM+	1.68	PT/A	PRE	6	2.6	23	10.9	4.8
AATREX	1.5	PT/A	PRE					
CALLISTO+	6	OZ/A	POST					
AATREX+	1	PT/A	POST					
COC	2	PT/A	POST					

### SS JUBILEE PLUS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	9	4.3	20	10.5	4.6
AATREX	1.5	PT/A	PRE					
CALLISTO+	6	OZ/A	POST					
AATREX+	1	PT/A	POST					
COC	2	PT/A	POST					

### PRIME TIME

DUAL 2 MAGNUM+	1.68	PT/A	PRE	1	0.4	19	8	3.5
AATREX	1.5	PT/A	PRE					
CALLISTO+	6	OZ/A	POST					
AATREX+	1	PT/A	POST					
COC	2	PT/A	POST					

### DOUBLE UP

DUAL 2 MAGNUM+	1.68	PT/A	PRE	1	0.4	21	10.3	4.5
AATREX	1.5	PT/A	PRE					
CALLISTO+	6	OZ/A	POST					
AATREX+	1	PT/A	POST					
COC	2	PT/A	POST					

# The Ohio State University

## SWEET CORN- RESPONSE OF TEN VARIETIES TO CALLISTO AND LUMAX

Trial ID: SCCALLUMW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
EARS	EARS	EARS	EARS	EARS
US FANCY	US FANCY	TTL MKTB	TTL MKTB	TTL MKTB
NO/PLOT	LBS/PLOT	NO/PLOT	LBS/PLOT	TONS/ACRE
8/15/04	8/15/04	8/15/04	8/15/04	8/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	35	36	39	40	41
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### WINSTAR

DUAL 2 MAGNUM+	1.68	PT/A	PRE	4	1.5	15	6.7	2.9
AATREX	1.5	PT/A	PRE					
CALLISTO+	6	OZ/A	POST					
AATREX+	1	PT/A	POST					
COC	2	PT/A	POST					

### CAMAS

DUAL 2 MAGNUM+	1.68	PT/A	PRE	5	2.4	21	11.4	5
AATREX	1.5	PT/A	PRE					
CALLISTO+	6	OZ/A	POST					
AATREX+	1	PT/A	POST					
COC	2	PT/A	POST					

### TAHOE

DUAL 2 MAGNUM+	1.68	PT/A	PRE	5	2.4	24	9.9	4.3
AATREX	1.5	PT/A	PRE					
CALLISTO+	6	OZ/A	POST					
AATREX+	1	PT/A	POST					
COC	2	PT/A	POST					

LSD (P=.05)	5	2.4	6	2.8	1.2
Standard Deviation	3	1.7	4	2.0	0.9
CV	46	48.0	19	19.1	19.1

# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

Trial ID: SCDEFOPTIONW 2004      Study Dir: Douglas Doohan and T. Koch  
Location: Wooster, Ohio      Investigator: Douglas Doohan

### TRIAL LOCATION

City: Wooster      Trial Status: Final  
State/Prov: Ohio      Trial Reliability: Reliable  
Postal Code: 44691      Initiation Date: 05/11/04  
Planned Completion Date: 12/01/04

Objective: Evaluate crop tolerance and weed control with Option and Define, using several tank mixes of each.

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	CHEAL	common lambsquarter	<i>Chenopodium album</i> L.
2	AMBEL	common ragweed	<i>Ambrosia artemisifolia</i> L.
3	AMAXX	pigweed spp.	<i>Amaranthus</i> spp.
4	POROL	common purslane	<i>Portulaca oleracea</i> L.

Crop 1: ZEAMS SWEET CORN      Variety: SWEET CHORUS & ARGENT  
Planting Date: 05/12/04      Planting Method: HAND PLANTED  
Rate: 1 SEED/FT      Depth: 2 IN  
Row Spacing: 30 INCH      Seed Bed: CONVENTIONAL  
Soil Moisture: MOIST      Emergence Date: 05/20/04

### 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: 15.5      % OM: 3      Texture: SILT LOAM  
% Silt: 69.8      pH: 6.8      Soil Name: WOOSTER SILT LOAM  
% Clay: 11.7      CEC: 14      Fert. Level: MODERATE

### APPLICATION DESCRIPTION

	A	B	C
Application Date:	5/12/2004	6/8/2004	6/18/2004
Time of Day:	9-10 AM	8-9 AM	8-9 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EARLY POST	LATE POST
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	72 F	75 F	70 F
% Relative Humidity:	87	74	100
Wind Velocity, Unit:	2 MPH	2 MPH	2 MPH
Dew Presence (Y/N):	N	N	N
Soil Moisture:	MOIST	MOIST	MOIST
% Cloud Cover:	0	90	50

### CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ZEAMS PRE	ZEAMS EPOST	ZEAMS LPOST
Stage Scale:	NONE	4 COLLAR	6 COLLAR
Height, Unit:	0 IN	8 IN	15 IN

# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

### WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	CHEAL PRE	CHEAL EPOST	CHEAL LPOST
Stage Scale:	.	6 IN	12 IN
Density, Unit:	. .	MEDIUM	MEDIUM
Weed 2 Code, Stage:	AMBEL PRE	AMBEL EPOST	AMBEL LPOST
Stage Scale:	.	6 IN	12 IN
Density, Unit:	. .	MEDIUM	MEDIUM
Weed 3 Code, Stage:	AMAXX PRE	AMAXX EPOST	AMAXX LPOST
Stage Scale:	.	6 IN	12 IN
Density, Unit:	. .	MEDIUM	MEDIUM
Weed 4 Code, Stage:	POROL PRE	POROL EPOST	POROL LPOST
Stage Scale:	.	2 IN	4 IN
Density, Unit:	. .	MEDIUM	MEDIUM

### APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	CO2 PLOT	CO2 PLOT	CO2 BACKPACK
Operating Pressure:	40	40	35
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	8002 VS	8002 VS	8002 VS
Nozzle Spacing, Unit:	12 IN	12 IN	18 IN
Nozzles/Row:	10	10	4
Band Width, Unit:	10 FT	10 FT	6 FT
Boom Height, Unit:	15 IN	15 IN	15 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Spray Volume, Unit:	25 GPA	25 GPA	25 GPA

### Trial Comments

Varieties included in trial, along with harvest dates, (based on average maturity dates) were:

- 1) Sweet Chorus, (8/6)
- 2) Argent, (8/9)

Each variety was planted in a single row per treatment, 20' long, alternated with a guard row variety, and replicated four times. Guard row variety was "Tuxedo". Collar numbers on 5 random corn plants per plot were taken on 5/25. Corn heights were taken from 5 random plants, (cols.40-44), measured from the soil line to the collar of the most recent fully expanded leaf. We also took a measurement from the soil to the base of the ear . (cols 45-49). We harvested all marketable ears based on projected harvest date and silk color, and graded them according to the following classes:

- 1) Syngenta Fancy, (6.5" long & <1.0 cm. of blank tip)
- 2) U.S.Fancy, (6.0" long ; blank tip not an issue)

Total marketable (MKTB) weight is the sum of SYNGENTA FANCY and U.S FANCY weights, given in tons per acre; ear weights were taken without husks.

Abbreviations used in this trial include:

"STACK" = Stacking; refers to closer internodal spacing, with an increase in leaves and tillers- (refer to columns 45-49)

"WRINKLE" = A "wrinkled," or "heated" appearance to the corn leaves.

"TILLR INCR" = % tiller increase

"TTL MKTB" = Total marketable ears

"PRETHIN" = Stand count before thinning

"POST THIN" = Stand count after thinning to one plant per twelve inches.

# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

Trial ID: SCDEFOPTIONW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
	CHLOROSIS	STUNT	TWIST	STAND CT	AV COLLAR	CHLOROSIS	STUNT
	%	%	%	PRETHIN	NUMBER	%	%
	5/25/04	5/25/04	5/25/04	5/25/04	5/25/04	6/3/04	6/3/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	10	11
----------------	--------------	-------------------	----------	---	---	---	---	----	----

### ARGENT

CONTROL				0	0	0	41	2	0	0
---------	--	--	--	---	---	---	----	---	---	---

### SWEET CHORUS

CONTROL				0	0	0	43	2	0	0
---------	--	--	--	---	---	---	----	---	---	---

### ARGENT

DEFINE+	18	OZ/A	PRE	6	10	14	40	2	10	19
AATREX	1.5	QT/A	PRE							

### SWEET CHORUS

DEFINE+	18	OZ/A	PRE	4	5	9	42	2	4	9
AATREX	1.5	QT/A	PRE							

### ARGENT

DEFINE+	14	OZ/A	PRE	6	8	8	42	2	9	16
AATREX	1	QT/A	PRE							
OPTION+	1.5	OZ/A	LPOST							
CALLISTO+	1	OZ/A	LPOST							
MSO+	3.76	PT/A	LPOST							
UAN	1.88	QT/A	LPOST							

### SWEET CHORUS

DEFINE+	14	OZ/A	PRE	4	4	5	41	2	3	5
AATREX	1	QT/A	PRE							
OPTION+	1.5	OZ/A	LPOST							
CALLISTO+	1	OZ/A	LPOST							
MSO+	3.76	PT/A	LPOST							
UAN	1.88	QT/A	LPOST							

### ARGENT

DEFINE+	12	OZ/A	EPOST	1	0	0	43	2	0	0
AATREX	1	QT/A	EPOST							
OPTION+	1.5	OZ/A	EPOST							
MSO+	3.76	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							



# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

Trial ID: SCDEFOPTIONW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

	ZEAMS PLANT CHLOROSIS %	ZEAMS PLANT STUNT %	ZEAMS PLANT TWIST %	ZEAMS PLANT STAND CT PRETHIN	ZEAMS PLANT AV COLLAR NUMBER	ZEAMS PLANT CHLOROSIS %	ZEAMS PLANT STUNT %
	5/25/04	5/25/04	5/25/04	5/25/04	5/25/04	6/3/04	6/3/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	10	11
----------------	--------------	-------------------	----------	---	---	---	---	----	----

### SWEET CHORUS

DEFINE+	12	OZ/A	EPOST	0	0	0	41	2	0	0
AATREX	1	QT/A	EPOST							
OPTION+	1.5	OZ/A	EPOST							
MSO+	3.76	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### ARGENT

OPTION+	3	OZ/A	EPOST	0	0	0	45	2	0	0
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### SWEET CHORUS

OPTION+	3	OZ/A	EPOST	0	0	0	42	2	0	0
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### ARGENT

CALLISTO+	3	OZ/A	EPOST	0	0	0	42	2	0	0
COC	2	PT/A	EPOST							

### SWEET CHORUS

CALLISTO+	3	OZ/A	EPOST	0	0	0	35	2	0	0
COC	2	PT/A	EPOST							

### ARGENT

OPTION+	3	OZ/A	EPOST	0	0	0	47	2	0	0
CALLISTO+	3	OZ/A	EPOST							
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### SWEET CHORUS

OPTION+	3	OZ/A	EPOST	0	0	0	42	2	0	0
CALLISTO+	3	OZ/A	EPOST							
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

Trial ID: SCDEFOPTIONW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
	CHLOROSIS	STUNT	TWIST	STAND CT	AV COLLAR	CHLOROSIS	STUNT
	%	%	%	PRETHIN	NUMBER	%	%
	5/25/04	5/25/04	5/25/04	5/25/04	5/25/04	6/3/04	6/3/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	10	11
----------------	--------------	-------------------	----------	---	---	---	---	----	----

### ARGENT

OPTION+	3	OZ/A	EPOST	0	0	0	46	2	0	0
CALLISTO+	1.5	OZ/A	EPOST							
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### SWEET CHORUS

OPTION+	3	OZ/A	EPOST	0	0	0	40	2	0	0
CALLISTO+	1.5	OZ/A	EPOST							
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### ARGENT

EQUIP+	1.5	OZ/A	EPOST	0	0	0	45	2	0	0
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### SWEET CHORUS

EQUIP+	1.5	OZ/A	EPOST	0	0	0	41	2	0	0
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

LSD (P=.05)	2	4	4	93	0	2	3
Standard Deviation	2	3	3	66	0	1	2
CV	132	201	139	124	8	78	69

# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

Trial ID: SCDEFOPTIONW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
	TWIST	BUGGY WHIP	CHLOROSIS	STUNT	TWIST	BUGGY WHIP	BURN
	%	%	%	%	%	%	%
	6/3/04	6/3/04	6/15/04	6/15/04	6/15/04	6/15/04	6/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	12	13	14	15	16	17	18
----------------	--------------	-------------------	----------	----	----	----	----	----	----	----

### ARGENT

CONTROL				0	0	0	0	0	0	0
---------	--	--	--	---	---	---	---	---	---	---

### SWEET CHORUS

CONTROL				0	0	0	0	0	0	0
---------	--	--	--	---	---	---	---	---	---	---

### ARGENT

DEFINE+	18	OZ/A	PRE	16	20	6	26	6	10	0
AATREX	1.5	QT/A	PRE							

### SWEET CHORUS

DEFINE+	18	OZ/A	PRE	9	10	6	6	4	0	0
AATREX	1.5	QT/A	PRE							

### ARGENT

DEFINE+	14	OZ/A	PRE	13	10	10	23	1	3	0
AATREX	1	QT/A	PRE							
OPTION+	1.5	OZ/A	LPOST							
CALLISTO+	1	OZ/A	LPOST							
MSO+	3.76	PT/A	LPOST							
UAN	1.88	QT/A	LPOST							

### SWEET CHORUS

DEFINE+	14	OZ/A	PRE	6	8	6	8	19	3	1
AATREX	1	QT/A	PRE							
OPTION+	1.5	OZ/A	LPOST							
CALLISTO+	1	OZ/A	LPOST							
MSO+	3.76	PT/A	LPOST							
UAN	1.88	QT/A	LPOST							

### ARGENT

DEFINE+	12	OZ/A	EPOST	0	0	18	19	11	0	23
AATREX	1	QT/A	EPOST							
OPTION+	1.5	OZ/A	EPOST							
MSO+	3.76	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

Trial ID: SCDEFOPTIONW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
	TWIST	BUGGY WHIP	CHLOROSIS	STUNT	TWIST	BUGGY WHIP	BURN
	%	%	%	%	%	%	%
	6/3/04	6/3/04	6/15/04	6/15/04	6/15/04	6/15/04	6/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	12	13	14	15	16	17	18
----------------	--------------	-------------------	----------	----	----	----	----	----	----	----

### SWEET CHORUS

DEFINE+	12	OZ/A	EPOST	0	0	10	14	19	0	16
AATREX	1	QT/A	EPOST							
OPTION+	1.5	OZ/A	EPOST							
MSO+	3.76	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### ARGENT

OPTION+	3	OZ/A	EPOST	0	0	10	23	20	3	0
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### SWEET CHORUS

OPTION+	3	OZ/A	EPOST	0	0	13	19	18	3	1
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### ARGENT

CALLISTO+	3	OZ/A	EPOST	0	0	18	14	10	3	1
COC	2	PT/A	EPOST							

### SWEET CHORUS

CALLISTO+	3	OZ/A	EPOST	0	0	3	0	0	0	0
COC	2	PT/A	EPOST							

### ARGENT

OPTION+	3	OZ/A	EPOST	0	0	14	24	26	6	5
CALLISTO+	3	OZ/A	EPOST							
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### SWEET CHORUS

OPTION+	3	OZ/A	EPOST	0	0	11	24	35	0	4
CALLISTO+	3	OZ/A	EPOST							
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

Trial ID: SCDEFOPTIONW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
	TWIST	BUGGY WHIP	CHLOROSIS	STUNT	TWIST	BUGGY WHIP	BURN
	%	%	%	%	%	%	%
	6/3/04	6/3/04	6/15/04	6/15/04	6/15/04	6/15/04	6/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	12	13	14	15	16	17	18
<b>ARGENT</b>										
OPTION+	3	OZ/A	EPOST	0	0	19	30	16	4	4
CALLISTO+	1.5	OZ/A	EPOST							
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							
<b>SWEET CHORUS</b>										
OPTION+	3	OZ/A	EPOST	0	0	23	26	38	0	1
CALLISTO+	1.5	OZ/A	EPOST							
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							
<b>ARGENT</b>										
EQUIP+	1.5	OZ/A	EPOST	0	0	19	21	18	6	1
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							
<b>SWEET CHORUS</b>										
EQUIP+	1.5	OZ/A	EPOST	0	0	15	18	31	0	1
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							
LSD (P=.05)				3	4	11	9	18	6	4
Standard Deviation				2	3	8	6	13	4	3
CV				92	118	68	39	85	186	91

# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

Trial ID: SCDEFOPTIONW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

	ZEAMS LEAF	ZEAMS PLANT	ZEAMS PLANT	ZEAMS PLANT	ZEAMS PLANT	ZEAMS PLANT	ZEAMS PLANT
	WRINKLE	STACK	CHLOROSIS	STUNT	TWIST	BUGGY WHIP	BURN
	%	%	%	%	%	%	%
	6/15/04	6/15/04	6/24/04	6/24/04	6/24/04	6/24/04	6/24/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19	20	21	22	23	24	25
----------------	--------------	-------------------	----------	----	----	----	----	----	----	----

### ARGENT

CONTROL

0 0 0 0 0 0 0

### SWEET CHORUS

CONTROL

0 0 0 0 0 0 0

### ARGENT

DEFINE+

18

OZ/A

PRE

6

0

0

10

0

0

0

AATREX

1.5

QT/A

PRE

### SWEET CHORUS

DEFINE+

18

OZ/A

PRE

0

0

1

3

0

0

0

AATREX

1.5

QT/A

PRE

### ARGENT

DEFINE+

14

OZ/A

PRE

6

0

15

19

0

0

13

AATREX

1

QT/A

PRE

OPTION+

1.5

OZ/A

LPOST

CALLISTO+

1

OZ/A

LPOST

MSO+

3.76

PT/A

LPOST

UAN

1.88

QT/A

LPOST

### SWEET CHORUS

DEFINE+

14

OZ/A

PRE

1

0

16

6

0

0

0

AATREX

1

QT/A

PRE

OPTION+

1.5

OZ/A

LPOST

CALLISTO+

1

OZ/A

LPOST

MSO+

3.76

PT/A

LPOST

UAN

1.88

QT/A

LPOST

### ARGENT

DEFINE+

12

OZ/A

EPOST

30

0

1

5

0

0

0

AATREX

1

QT/A

EPOST

OPTION+

1.5

OZ/A

EPOST

MSO+

3.76

PT/A

EPOST

UAN

1.88

QT/A

EPOST

# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

Trial ID: SCDEFOPTIONW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code										
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				LEAF	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				WRINKLE	STACK	CHLOROSIS	STUNT	TWIST	BUGGY WHIP	BURN
Rating Unit				%	%	%	%	%	%	%
Rating Date				6/15/04	6/15/04	6/24/04	6/24/04	6/24/04	6/24/04	6/24/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19	20	21	22	23	24	25
----------------	--------------	-------------------	----------	----	----	----	----	----	----	----

### SWEET CHORUS

DEFINE+	12	OZ/A	EPOST	0	0	0	3	0	0	0
AATREX	1	QT/A	EPOST							
OPTION+	1.5	OZ/A	EPOST							
MSO+	3.76	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### ARGENT

OPTION+	3	OZ/A	EPOST	85	0	0	3	0	0	0
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### SWEET CHORUS

OPTION+	3	OZ/A	EPOST	3	23	0	0	0	0	0
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### ARGENT

CALLISTO+	3	OZ/A	EPOST	10	0	0	1	0	0	0
COC	2	PT/A	EPOST							

### SWEET CHORUS

CALLISTO+	3	OZ/A	EPOST	0	10	0	0	0	0	0
COC	2	PT/A	EPOST							

### ARGENT

OPTION+	3	OZ/A	EPOST	78	0	0	9	0	0	0
CALLISTO+	3	OZ/A	EPOST							
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### SWEET CHORUS

OPTION+	3	OZ/A	EPOST	1	24	3	5	0	0	0
CALLISTO+	3	OZ/A	EPOST							
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

Trial ID: SCDEFOPTIONW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
	LEAF	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
	WRINKLE	STACK	CHLOROSIS	STUNT	TWIST	BUGGY WHIP	BURN
	%	%	%	%	%	%	%
	6/15/04	6/15/04	6/24/04	6/24/04	6/24/04	6/24/04	6/24/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19	20	21	22	23	24	25
----------------	--------------	-------------------	----------	----	----	----	----	----	----	----

### ARGENT

OPTION+	3	OZ/A	EPOST	76	0	1	6	0	1	0
CALLISTO+	1.5	OZ/A	EPOST							
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### SWEET CHORUS

OPTION+	3	OZ/A	EPOST	3	24	0	4	0	0	0
CALLISTO+	1.5	OZ/A	EPOST							
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### ARGENT

EQUIP+	1.5	OZ/A	EPOST	75	0	3	13	0	1	0
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### SWEET CHORUS

EQUIP+	1.5	OZ/A	EPOST	0	14	0	0	0	0	0
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

LSD (P=.05)

Standard Deviation

CV

15	2	2	6	0	1	1
10	1	2	4	0	1	1
50	24	66	90	0	606	98



# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

Trial ID: SCDEFOPTIONW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code										
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				LEAF	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				WRINKLE	STACK	CHLOROSIS	STUNT	TWIST	BUGGY WHIP	BURN
Rating Unit				%	%	%	%	%	%	%
Rating Date				6/24/04	6/24/04	7/9/04	7/9/04	7/9/04	7/9/04	7/9/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	26	27	28	29	30	31	32
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**ARGENT**

CONTROL 0 0 0 0 0 0 0 0

**SWEET CHORUS**

CONTROL 0 0 0 0 0 0 0 0

**ARGENT**

DEFINE+ 18 OZ/A PRE 4 0 0 10 0 0 0

AATREX 1.5 QT/A PRE

**SWEET CHORUS**

DEFINE+ 18 OZ/A PRE 1 0 0 0 0 0 0

AATREX 1.5 QT/A PRE

**ARGENT**

DEFINE+ 14 OZ/A PRE 3 0 0 39 0 0 0

AATREX 1 QT/A PRE

OPTION+ 1.5 OZ/A LPOST

CALLISTO+ 1 OZ/A LPOST

MSO+ 3.76 PT/A LPOST

UAN 1.88 QT/A LPOST

**SWEET CHORUS**

DEFINE+ 14 OZ/A PRE 1 0 0 18 0 0 0

AATREX 1 QT/A PRE

OPTION+ 1.5 OZ/A LPOST

CALLISTO+ 1 OZ/A LPOST

MSO+ 3.76 PT/A LPOST

UAN 1.88 QT/A LPOST

**ARGENT**

DEFINE+ 12 OZ/A EPOST 3 0 0 0 0 0 0

AATREX 1 QT/A EPOST

OPTION+ 1.5 OZ/A EPOST

MSO+ 3.76 PT/A EPOST

UAN 1.88 QT/A EPOST

# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

Trial ID: SCDEFOPTIONW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated	LEAF	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type	WRINKLE	STACK	CHLOROSIS	STUNT	TWIST	BUGGY WHIP	BURN
Rating Unit	%	%	%	%	%	%	%
Rating Date	6/24/04	6/24/04	7/9/04	7/9/04	7/9/04	7/9/04	7/9/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	26	27	28	29	30	31	32
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### SWEET CHORUS

DEFINE+	12	OZ/A	EPOST	0	0	0	3	0	0	0
AATREX	1	QT/A	EPOST							
OPTION+	1.5	OZ/A	EPOST							
MSO+	3.76	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### ARGENT

OPTION+	3	OZ/A	EPOST	11	0	0	0	0	0	0
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### SWEET CHORUS

OPTION+	3	OZ/A	EPOST	5	23	0	4	0	0	0
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### ARGENT

CALLISTO+	3	OZ/A	EPOST	4	0	0	3	0	0	0
COC	2	PT/A	EPOST							

### SWEET CHORUS

CALLISTO+	3	OZ/A	EPOST	3	10	0	0	0	0	0
COC	2	PT/A	EPOST							

### ARGENT

OPTION+	3	OZ/A	EPOST	13	0	0	0	0	0	0
CALLISTO+	3	OZ/A	EPOST							
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### SWEET CHORUS

OPTION+	3	OZ/A	EPOST	5	24	0	0	0	0	0
CALLISTO+	3	OZ/A	EPOST							
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

Trial ID: SCDEFOPTIONW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
	LEAF	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
	WRINKLE	STACK	CHLOROSIS	STUNT	TWIST	BUGGY WHIP	BURN
	%	%	%	%	%	%	%
	6/24/04	6/24/04	7/9/04	7/9/04	7/9/04	7/9/04	7/9/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	26	27	28	29	30	31	32
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### ARGENT

OPTION+	3	OZ/A	EPOST	14	0	0	0	0	0	0
CALLISTO+	1.5	OZ/A	EPOST							
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### SWEET CHORUS

OPTION+	3	OZ/A	EPOST	3	24	0	0	0	0	0
CALLISTO+	1.5	OZ/A	EPOST							
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### ARGENT

EQUIP+	1.5	OZ/A	EPOST	16	0	0	8	0	0	0
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### SWEET CHORUS

EQUIP+	1.5	OZ/A	EPOST	3	14	0	0	0	0	0
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

LSD (P=.05)	5	2	0	6	0	0	0
Standard Deviation	3	1	0	4	0	0	0
CV	67	24	0	89	0	0	0

# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

Trial ID: SCDEFOPTIONW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code				CHEAL	POROL	AMBEL	AMAXX	TAROF
Crop Code	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated	LEAF	PLANT	WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type	WRINKLE	STACK	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%	%	%
Rating Date	7/9/04	7/9/04	7/12/04	7/12/04	7/12/04	7/12/04	7/12/04	7/12/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	33	34	35	36	37	38	39
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**ARGENT**

CONTROL				0	0	0	0	0	0	0
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**SWEET CHORUS**

CONTROL				0	8	0	0	0	0	0
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**ARGENT**

DEFINE+	18	OZ/A	PRE	0	0	99	99	99	99	76
AATREX	1.5	QT/A	PRE							

**SWEET CHORUS**

DEFINE+	18	OZ/A	PRE	0	5	99	99	99	99	76
AATREX	1.5	QT/A	PRE							

**ARGENT**

DEFINE+	14	OZ/A	PRE	80	0	99	99	99	99	99
AATREX	1	QT/A	PRE							
OPTION+	1.5	OZ/A	LPOST							
CALLISTO+	1	OZ/A	LPOST							
MSO+	3.76	PT/A	LPOST							
UAN	1.88	QT/A	LPOST							

**SWEET CHORUS**

DEFINE+	14	OZ/A	PRE	0	18	99	99	99	99	99
AATREX	1	QT/A	PRE							
OPTION+	1.5	OZ/A	LPOST							
CALLISTO+	1	OZ/A	LPOST							
MSO+	3.76	PT/A	LPOST							
UAN	1.88	QT/A	LPOST							

**ARGENT**

DEFINE+	12	OZ/A	EPOST	0	0	99	99	99	99	99
AATREX	1	QT/A	EPOST							
OPTION+	1.5	OZ/A	EPOST							
MSO+	3.76	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

Trial ID: SCDEFOPTIONW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code				CHEAL	POROL	AMBEL	AMAXX	TAROF
Crop Code	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated	LEAF	PLANT	WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type	WRINKLE	STACK	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%	%	%
Rating Date	7/9/04	7/9/04	7/12/04	7/12/04	7/12/04	7/12/04	7/12/04	7/12/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	33	34	35	36	37	38	39
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### SWEET CHORUS

DEFINE+	12	OZ/A	EPOST	0	21	99	99	99	99	99
AATREX	1	QT/A	EPOST							
OPTION+	1.5	OZ/A	EPOST							
MSO+	3.76	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### ARGENT

OPTION+	3	OZ/A	EPOST	0	0	99	99	99	99	99
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### SWEET CHORUS

OPTION+	3	OZ/A	EPOST	0	43	99	99	99	99	99
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### ARGENT

CALLISTO+	3	OZ/A	EPOST	8	0	99	73	99	99	99
COC	2	PT/A	EPOST							

### SWEET CHORUS

CALLISTO+	3	OZ/A	EPOST	0	14	99	73	99	99	99
COC	2	PT/A	EPOST							

### ARGENT

OPTION+	3	OZ/A	EPOST	3	0	99	99	99	99	99
CALLISTO+	3	OZ/A	EPOST							
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### SWEET CHORUS

OPTION+	3	OZ/A	EPOST	0	24	99	99	99	99	99
CALLISTO+	3	OZ/A	EPOST							
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

Trial ID: SCDEFOPTIONW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code				CHEAL	POROL	AMBEL	AMAXX	TAROF
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				LEAF	PLANT	WEED	WEED	WEED
Rating Data Type				WRINKLE	STACK	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/9/04	7/9/04	7/12/04	7/12/04	7/12/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	33	34	35	36	37	38	39
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### ARGENT

OPTION+	3	OZ/A	EPOST	5	0	99	99	99	99	80
CALLISTO+	1.5	OZ/A	EPOST							
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### SWEET CHORUS

OPTION+	3	OZ/A	EPOST	0	33	99	99	99	99	80
CALLISTO+	1.5	OZ/A	EPOST							
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### ARGENT

EQUIP+	1.5	OZ/A	EPOST	5	0	99	99	99	99	80
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

### SWEET CHORUS

EQUIP+	1.5	OZ/A	EPOST	0	16	99	99	99	99	80
MSO+	1.88	PT/A	EPOST							
UAN	1.88	QT/A	EPOST							

LSD (P=.05)				5	19	0	1	0	0	1
Standard Deviation				4	13	0	1	0	0	1
CV				69	133	0	1	0	0	1

# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

Trial ID: SCDEFOPTIONW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code									
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	SOIL TO EAR	PLANT	PLANT	PLANT	PLANT
Rating Data Type				AV HEIGHT	AV HEIGHT	CHLOROSIS	STUNT	TWIST	BUGGY WHIP
Rating Unit				CM	CM	%	%	%	%
Rating Date				7/16/04	7/16/04	7/22/04	7/22/04	7/22/04	7/22/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg			50	51	52	53
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**ARGENT**

CONTROL 190.1 50.2 0 0 0 0

**SWEET CHORUS**

CONTROL 174.3 32.6 0 0 0 0

**ARGENT**

DEFINE+ 18 OZ/A PRE 178.5 45.6 0 0 0 0  
 AATREX 1.5 QT/A PRE

**SWEET CHORUS**

DEFINE+ 18 OZ/A PRE 170 31.6 3 10 0 0  
 AATREX 1.5 QT/A PRE

**ARGENT**

DEFINE+ 14 OZ/A PRE 154.3 40.8 0 6 0 0  
 AATREX 1 QT/A PRE  
 OPTION+ 1.5 OZ/A LPOST  
 CALLISTO+ 1 OZ/A LPOST  
 MSO+ 3.76 PT/A LPOST  
 UAN 1.88 QT/A LPOST

**SWEET CHORUS**

DEFINE+ 14 OZ/A PRE 152.2 29.4 0 21 0 0  
 AATREX 1 QT/A PRE  
 OPTION+ 1.5 OZ/A LPOST  
 CALLISTO+ 1 OZ/A LPOST  
 MSO+ 3.76 PT/A LPOST  
 UAN 1.88 QT/A LPOST

**ARGENT**

DEFINE+ 12 OZ/A EPOST 181.8 46 0 0 0 0  
 AATREX 1 QT/A EPOST  
 OPTION+ 1.5 OZ/A EPOST  
 MSO+ 3.76 PT/A EPOST  
 UAN 1.88 QT/A EPOST

# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

Trial ID: SCDEFOPTIONW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code									
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	SOIL TO EAR	PLANT	PLANT	PLANT	PLANT
Rating Data Type				AV HEIGHT	AV HEIGHT	CHLOROSIS	STUNT	TWIST	BUGGY WHIP
Rating Unit				CM	CM	%	%	%	%
Rating Date				7/16/04	7/16/04	7/22/04	7/22/04	7/22/04	7/22/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	50	51	52	53
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### SWEET CHORUS

DEFINE+	12	OZ/A	EPOST	173.4	31.8	0	0	0	0
AATREX	1	QT/A	EPOST						
OPTION+	1.5	OZ/A	EPOST						
MSO+	3.76	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						

### ARGENT

OPTION+	3	OZ/A	EPOST	193.9	47	0	0	0	0
MSO+	1.88	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						

### SWEET CHORUS

OPTION+	3	OZ/A	EPOST	175.5	30.6	0	4	0	0
MSO+	1.88	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						

### ARGENT

CALLISTO+	3	OZ/A	EPOST	180.3	48.8	0	0	0	0
COC	2	PT/A	EPOST						

### SWEET CHORUS

CALLISTO+	3	OZ/A	EPOST	170.4	34.6	0	0	0	0
COC	2	PT/A	EPOST						

### ARGENT

OPTION+	3	OZ/A	EPOST	185.5	38	0	0	0	0
CALLISTO+	3	OZ/A	EPOST						
MSO+	1.88	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						

### SWEET CHORUS

OPTION+	3	OZ/A	EPOST	169.9	29.8	0	4	0	0
CALLISTO+	3	OZ/A	EPOST						
MSO+	1.88	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						



# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

Trial ID: SCDEFOPTIONW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

	ZEAMS PLANT	ZEAMS SOIL TO EAR	ZEAMS PLANT	ZEAMS PLANT	ZEAMS PLANT	ZEAMS PLANT
AV HEIGHT	AV HEIGHT	AV HEIGHT	CHLOROSIS	STUNT	TWIST	BUGGY WHIP
CM	CM	%	%	%	%	
7/16/04	7/16/04	7/22/04	7/22/04	7/22/04	7/22/04	7/22/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	50	51	52	53
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### ARGENT

OPTION+	3	OZ/A	EPOST	189.4	41.6	0	0	0	0
CALLISTO+	1.5	OZ/A	EPOST						
MSO+	1.88	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						

### SWEET CHORUS

OPTION+	3	OZ/A	EPOST	170.2	29.2	0	6	0	0
CALLISTO+	1.5	OZ/A	EPOST						
MSO+	1.88	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						

### ARGENT

EQUIP+	1.5	OZ/A	EPOST	178.2	41	3	3	0	0
MSO+	1.88	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						

### SWEET CHORUS

EQUIP+	1.5	OZ/A	EPOST	171.8	30.6	0	0	0	0
MSO+	1.88	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						

LSD (P=.05)	17.7	9.0	2	8	0	0
Standard Deviation	12.5	6.3	2	6	0	0
CV	7.1	16.8	606	183	0	0

# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

Trial ID: SCDEFOPTIONW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Crop Code	PLANT	LEAF	PLANT	PLANT	PLANT	EARS
Part Rated	BURN	WRINKLE	STACK	TILLR INCR	STAND CT	SYNG FANCY
Rating Data Type	%	%	%	%	POSTTHIN	NO/PLOT
Rating Unit	7/22/04	7/22/04	7/22/04	7/22/04	7/22/04	8/6/04
Rating Date						

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	54	55	56	57	58	59
<b>ARGENT</b>									
CONTROL				0	0	0	0	26	1
<b>SWEET CHORUS</b>									
CONTROL				0	0	0	0	23	12
<b>ARGENT</b>									
DEFINE+	18	OZ/A	PRE	0	0	0	0	24	3
AATREX	1.5	QT/A	PRE						
<b>SWEET CHORUS</b>									
DEFINE+	18	OZ/A	PRE	0	9	0	0	25	11
AATREX	1.5	QT/A	PRE						
<b>ARGENT</b>									
DEFINE+	14	OZ/A	PRE	0	26	0	0	23	1
AATREX	1	QT/A	PRE						
OPTION+	1.5	OZ/A	LPOST						
CALLISTO+	1	OZ/A	LPOST						
MSO+	3.76	PT/A	LPOST						
UAN	1.88	QT/A	LPOST						
<b>SWEET CHORUS</b>									
DEFINE+	14	OZ/A	PRE	0	0	5	13	21	4
AATREX	1	QT/A	PRE						
OPTION+	1.5	OZ/A	LPOST						
CALLISTO+	1	OZ/A	LPOST						
MSO+	3.76	PT/A	LPOST						
UAN	1.88	QT/A	LPOST						
<b>ARGENT</b>									
DEFINE+	12	OZ/A	EPOST	0	0	0	0	25	3
AATREX	1	QT/A	EPOST						
OPTION+	1.5	OZ/A	EPOST						
MSO+	3.76	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						

# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

Trial ID: SCDEFOPTIONW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code									
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	LEAF	PLANT	PLANT	PLANT	EARS
Rating Data Type				BURN	WRINKLE	STACK	TILLR INCR	STAND CT	SYNG FANCY
Rating Unit				%	%	%	%	POSTTHIN	NO/PLOT
Rating Date				7/22/04	7/22/04	7/22/04	7/22/04	7/22/04	8/6/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	54	55	56	57	58	59
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### SWEET CHORUS

DEFINE+	12	OZ/A	EPOST	0	0	4	0	23	9
AATREX	1	QT/A	EPOST						
OPTION+	1.5	OZ/A	EPOST						
MSO+	3.76	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						

### ARGENT

OPTION+	3	OZ/A	EPOST	0	0	0	0	25	5
MSO+	1.88	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						

### SWEET CHORUS

OPTION+	3	OZ/A	EPOST	0	0	0	4	24	11
MSO+	1.88	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						

### ARGENT

CALLISTO+	3	OZ/A	EPOST	0	0	0	0	25	2
COC	2	PT/A	EPOST						

### SWEET CHORUS

CALLISTO+	3	OZ/A	EPOST	0	0	0	4	25	12
COC	2	PT/A	EPOST						

### ARGENT

OPTION+	3	OZ/A	EPOST	0	0	0	0	24	3
CALLISTO+	3	OZ/A	EPOST						
MSO+	1.88	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						

### SWEET CHORUS

OPTION+	3	OZ/A	EPOST	0	0	1	23	24	13
CALLISTO+	3	OZ/A	EPOST						
MSO+	1.88	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						

# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

Trial ID: SCDEFOPTIONW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
PLANT	LEAF	PLANT	PLANT	PLANT	EARS
BURN	WRINKLE	STACK	TILLR INCR	STAND CT	SYNG FANCY
%	%	%	%	POSTTHIN	NO/PLOT
7/22/04	7/22/04	7/22/04	7/22/04	7/22/04	8/6/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	54	55	56	57	58	59
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### ARGENT

OPTION+	3	OZ/A	EPOST	0	0	0	0	25	5
CALLISTO+	1.5	OZ/A	EPOST						
MSO+	1.88	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						

### SWEET CHORUS

OPTION+	3	OZ/A	EPOST	0	0	0	15	24	11
CALLISTO+	1.5	OZ/A	EPOST						
MSO+	1.88	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						

### ARGENT

EQUIP+	1.5	OZ/A	EPOST	0	3	0	0	27	1
MSO+	1.88	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						

### SWEET CHORUS

EQUIP+	1.5	OZ/A	EPOST	0	0	0	5	26	13
MSO+	1.88	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						

LSD (P=.05)	0	11	4	16	4	5
Standard Deviation	0	7	3	11	3	4
CV	0	357	549	327	12	57

# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

Trial ID: SCDEFPTIONW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code									
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				EARS	EARS	EARS	EARS	EARS	EARS
Rating Data Type				SYNG FANCY	US FANCY	US FANCY	TTL MKTB	TTL MKTB	TTL MKTB
Rating Unit				LBS/PLOT	NO/PLOT	LBS/PLOT	NO/PLOT	LBS/PLOT	TONS/ACRE
Rating Date				8/6/04	8/6/04	8/6/04	8/6/04	8/6/04	8/6/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	60	61	62	65	66	67
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### ARGENT

CONTROL				0.8	24	13.2	26	14	6.1
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### SWEET CHORUS

CONTROL				6.3	12	5.7	24	11.9	5.2
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### ARGENT

DEFINE+	18	OZ/A	PRE	1.7	20	10.2	23	12	5.2
AATREX	1.5	QT/A	PRE						

### SWEET CHORUS

DEFINE+	18	OZ/A	PRE	5.4	15	6.7	26	12.1	5.3
AATREX	1.5	QT/A	PRE						

### ARGENT

DEFINE+	14	OZ/A	PRE	0.7	18	8	19	8.8	3.8
AATREX	1	QT/A	PRE						
OPTION+	1.5	OZ/A	LPOST						
CALLISTO+	1	OZ/A	LPOST						
MSO+	3.76	PT/A	LPOST						
UAN	1.88	QT/A	LPOST						

### SWEET CHORUS

DEFINE+	14	OZ/A	PRE	1.6	18	7.8	22	9.4	4.1
AATREX	1	QT/A	PRE						
OPTION+	1.5	OZ/A	LPOST						
CALLISTO+	1	OZ/A	LPOST						
MSO+	3.76	PT/A	LPOST						
UAN	1.88	QT/A	LPOST						

### ARGENT

DEFINE+	12	OZ/A	EPOST	1.9	22	11.2	26	13.1	5.7
AATREX	1	QT/A	EPOST						
OPTION+	1.5	OZ/A	EPOST						
MSO+	3.76	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						

# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

Trial ID: SCDEFOPTIONW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code									
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				EARS	EARS	EARS	EARS	EARS	EARS
Rating Data Type				SYNG FANCY	US FANCY	US FANCY	TTL MKTB	TTL MKTB	TTL MKTB
Rating Unit				LBS/PLOT	NO/PLOT	LBS/PLOT	NO/PLOT	LBS/PLOT	TONS/ACRE
Rating Date				8/6/04	8/6/04	8/6/04	8/6/04	8/6/04	8/6/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	60	61	62	65	66	67
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### SWEET CHORUS

DEFINE+	12	OZ/A	EPOST	4.5	16	6.8	25	11.3	4.9
AATREX	1	QT/A	EPOST						
OPTION+	1.5	OZ/A	EPOST						
MSO+	3.76	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						

### ARGENT

OPTION+	3	OZ/A	EPOST	2.5	16	8.1	20	10.6	4.6
MSO+	1.88	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						

### SWEET CHORUS

OPTION+	3	OZ/A	EPOST	5.5	11	5.1	22	10.6	4.6
MSO+	1.88	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						

### ARGENT

CALLISTO+	3	OZ/A	EPOST	0.9	23	11.6	24	12.5	5.4
COC	2	PT/A	EPOST						

### SWEET CHORUS

CALLISTO+	3	OZ/A	EPOST	6.6	16	7.1	28	13.8	6
COC	2	PT/A	EPOST						

### ARGENT

OPTION+	3	OZ/A	EPOST	1.4	21	11.2	24	12.5	5.5
CALLISTO+	3	OZ/A	EPOST						
MSO+	1.88	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						

### SWEET CHORUS

OPTION+	3	OZ/A	EPOST	6.3	11	5	24	11.3	4.9
CALLISTO+	3	OZ/A	EPOST						
MSO+	1.88	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						

# The Ohio State University

## SWEET CORN - RESPONSE OF TWO VARIETIES TO OPTION AND DEFINE

Trial ID: SCDEFOPTIONW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code									
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				EARS	EARS	EARS	EARS	EARS	EARS
Rating Data Type				SYNG FANCY	US FANCY	US FANCY	TTL MKTB	TTL MKTB	TTL MKTB
Rating Unit				LBS/PLOT	NO/PLOT	LBS/PLOT	NO/PLOT	LBS/PLOT	TONS/ACRE
Rating Date				8/6/04	8/6/04	8/6/04	8/6/04	8/6/04	8/6/04
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	60	61	62	65	66	67
<b>ARGENT</b>									
OPTION+	3	OZ/A	EPOST	2.4	20	10	24	12.4	5.4
CALLISTO+	1.5	OZ/A	EPOST						
MSO+	1.88	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						
<b>SWEET CHORUS</b>									
OPTION+	3	OZ/A	EPOST	5.7	11	4.8	22	10.5	4.6
CALLISTO+	1.5	OZ/A	EPOST						
MSO+	1.88	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						
<b>ARGENT</b>									
EQUIP+	1.5	OZ/A	EPOST	0.7	23	11.4	24	12.1	5.3
MSO+	1.88	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						
<b>SWEET CHORUS</b>									
EQUIP+	1.5	OZ/A	EPOST	6.3	11	5.1	23	11.4	5
MSO+	1.88	PT/A	EPOST						
UAN	1.88	QT/A	EPOST						
LSD (P=.05)				2.7	7	3.3	6	3.0	1.3
Standard Deviation				1.9	5	2.3	4	2.1	0.9
CV				55.8	28	28.1	18	18.2	18.2

# The Ohio State University

## TOMATOES- HERBICIDE PROGRAMS FOR TRANSPLANTED PROCESSING TOMATOES

Trial ID: TOMHPTPFRE 2004      Study Dir: Douglas Doohan and T.Koch  
Location: Fremont, Ohio      Investigator: Douglas Doohan

### TRIAL LOCATION

City: Fremont      Trial Status: Final  
State/Prov: Ohio      Trial Reliability: Reliable  
Postal Code: 432420      Initiation Date: 05/28/04  
Planned Completion Date: 12/01/04

Objective: To evaluate herbicides for control of Eastern black nightshade and other weeds in processing tomatoes.

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	CHEAL	common lambsquarter	<i>Chenopodium album</i> L.
2	SOLPT	Eastern black nightshade	<i>Solanum ptycanthum</i> Dun.
3	POROL	common purslane	<i>Portulaca oleracea</i> L.
4	ABUTH	velvetleaf	<i>Abutilon theophrasti medicus</i>
5	AMAXX	pigweed species	<i>Amaranth</i> spp.
6	AGRASS	foxtail and crabgrass species	<i>Setaria</i> spp. and <i>Digitaria</i> spp.
7	POLPY	Pennsylvania smartweed	<i>Polygonum pennsylvanicum</i> L.

Crop 1: LYPES PROCESSING TOMATO Variety: PETO 696  
Planting Date: 05/28/04      Planting Method: CONVENTIONAL  
Rate: 12 IN      Depth: 2 IN  
Row Spacing: 5 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: 19.1      % OM: 4.4      Texture: SILTY CLAY LOAM  
% Silt: 39.2      pH: 6.6      Soil Name: HOYTVILLE  
% Clay: 37.3      CEC: 27      Fert. Level: MODERATE

### APPLICATION DESCRIPTION

	A	B
Application Date:	5/28/2004	6/23/2004
Time of Day:	10-12 AM	8-9 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRETRANSPL	POST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	69 F	63 F
% Relative Humidity:	83	62
Wind Velocity, Unit:	3 S	2.1 W
Dew Presence (Y/N):	N	N
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	80	0



# The Ohio State University

## TOMATOES- HERBICIDE PROGRAMS FOR TRANSPLANTED PROCESSING TOMATOES

### CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	LYPES PRE	LYPES POST
Stage Scale:	NONE	VEGETATIVE
Height, Unit:	0 IN	12 IN

### WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	CHEAL PRE	CHEAL POST
Stage Scale:	.	6 IN
Density, Unit:	. .	LOW
Weed 2 Code, Stage:	SOLPT PRE	SOLPT POST
Stage Scale:	.	1 IN
Density, Unit:	. .	LOW
Weed 3 Code, Stage:	POROL PRE	POROL POST
Stage Scale:	.	4 IN
Density, Unit:	. .	HIGH
Weed 4 Code, Stage:	ABUTH PRE	ABUTH POST
Stage Scale:	.	4 IN
Density, Unit:	. .	LOW
Weed 5 Code, Stage:	AMAXX PRE	AMAXX POST
Stage Scale:	.	5 IN
Density, Unit:	. .	MEDIUM
Weed 6 Code, Stage:	AGRAS PRE	AGRAS POST
Stage Scale:	.	12 IN
Density, Unit:	. .	HIGH
Weed 7 Code, Stage:	POLPY PRE	POLPY POST
Stage Scale:	.	6 IN
Density, Unit:	. .	LOW

### APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	TRACTOR	CO2 BACKPACK
Operating Pressure:	30	35
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8002VS	8002VS
Nozzle Spacing, Unit:	12 IN	15 IN
Nozzles/Row:	10	4
Band Width, Unit:	10 FT	5 FT
Boom Height, Unit:	15 IN	15 IN
Ground Speed, Unit:	3 MPH	3 MPH
Incorporation Equip.:	TILLER	
Spray Volume, Unit:	25 GPA	25 GPA

#### Trial Comments

Due to heavy rains, rep 4 plots were not rated after July1.

Plant injury in treatment 1 is due to weed pressure, not herbicide injury.

# The Ohio State University

## TOMATOES- HERBICIDE PROGRAMS FOR TRANSPLANTED PROCESSING TOMATOES

Trial ID: TOMHPTPFRE 2004

Study Dir: Douglas Doohan and T. Koch

Location: Fremont, Ohio

Investigator: Douglas Doohan

Weed Code				AGRASS	SOLPT	CHEAL	AMAXX	POROL	
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	
Part Rated				PLANT	WEED	WEED	WEED	WEED	
Rating Data Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit				%	%	%	%	%	
Rating Date				6/10/04	6/10/04	6/10/04	6/10/04	6/10/04	
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	99	99	99	99	99
DUAL MAGNUM+ SANDEA	1.33 0.5	PT/A OZ/A	PRE PRE	0	99	99	99	99	99
DUAL MAGNUM+ SANDEA	1.33 1	PT/A OZ/A	PRE PRE	0	99	99	99	99	99
DUAL MAGNUM SANDEA+ NIS	1.33 0.5 0.5	PT/A OZ/A PT/A	PRE POST POST	0	99	96	91	99	99
DUAL MAGNUM SANDEA+ NIS	1.33 0.66 0.5	PT/A OZ/A PT/A	PRE POST POST	0	99	97	90	99	99
DUAL MAGNUM SANDEA+ NIS+ SENCOR	1.33 0.5 0.5 2	PT/A OZ/A PT/A OZ/A	PRE POST POST POST	0	99	99	92	99	97
DUAL MAGNUM+ SENCOR	1.33 10	PT/A OZ/A	PRE POST	0	99	98	89	99	85
DUAL MAGNUM; SENCOR+ MATRIX+ NIS	1.33 2 1 0.5	PT/A OZ/A OZ/A PT/A	PPI POST POST POST	0	99	97	84	99	95
DUAL MAGNUM; SENCOR+ MATRIX+ NIS	1.33 2 2 0.5	PT/A OZ/A OZ/A PT/A	PPI POST POST POST	0	99	92	84	99	90
LSD (P=.05)				0	0	6	6	0	6
Standard Deviation				0	0	4	4	0	4
CV				0	0	5	5	0	5

# The Ohio State University

## TOMATOES- HERBICIDE PROGRAMS FOR TRANSPLANTED PROCESSING TOMATOES

Trial ID: TOMHPTPFRE 2004

Study Dir: Douglas Doohan and T. Koch

Location: Fremont, Ohio

Investigator: Douglas Doohan

Weed Code	POLPY	ABUTH		AGRASS	SOLPT	CHEAL			
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES			
Part Rated	WEED	WEED	PLANT	WEED	WEED	WEED			
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL			
Rating Unit	%	%	%	%	%	%			
Rating Date	6/10/04	6/10/04	6/23/04	6/23/04	6/23/04	6/23/04			
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
WEEDY CONTROL				0	25	0	0	0	0
WEED FREE CONTROL				99	99	0	74	74	74
DUAL MAGNUM+ SANDEA	1.33 0.5	PT/A OZ/A	PRE PRE	99	99	0	84	98	92
DUAL MAGNUM+ SANDEA	1.33 1	PT/A OZ/A	PRE PRE	99	99	0	81	90	97
DUAL MAGNUM SANDEA+ NIS	1.33 0.5 0.5	PT/A OZ/A PT/A	PRE POST POST	99	99	0	81	90	90
DUAL MAGNUM SANDEA+ NIS	1.33 0.66 0.5	PT/A OZ/A PT/A	PRE POST POST	99	99	0	84	97	89
DUAL MAGNUM SANDEA+ NIS+ SENCOR	1.33 0.5 0.5 2	PT/A OZ/A PT/A OZ/A	PRE POST POST POST	99	96	0	81	97	91
DUAL MAGNUM+ SENCOR	1.33 10	PT/A OZ/A	PRE POST	99	99	0	75	67	75
DUAL MAGNUM; SENCOR+ MATRIX+ NIS	1.33 2 1 0.5	PT/A OZ/A OZ/A PT/A	PPI POST POST POST	99	99	0	88	96	83
DUAL MAGNUM; SENCOR+ MATRIX+ NIS	1.33 2 2 0.5	PT/A OZ/A OZ/A PT/A	PPI POST POST POST	99	99	0	87	96	83
LSD (P=.05)				0	23	0	27	31	26
Standard Deviation				0	16	0	19	21	18
CV				0	17	0	25	26	23

# The Ohio State University

## TOMATOES- HERBICIDE PROGRAMS FOR TRANSPLANTED PROCESSING TOMATOES

Trial ID: TOMHPTPFRE 2004

Study Dir: Douglas Doohan and T. Koch

Location: Fremont, Ohio

Investigator: Douglas Doohan

Weed Code	AMAXX	POROL	POLPY	ABUTH	AGRASS			
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	6/23/04	6/23/04	6/23/04	6/23/04	7/1/04			
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17
WEEDY CONTROL				0	0	0	0	0
WEED FREE CONTROL				74	74	74	74	99
DUAL MAGNUM+ SANDEA	1.33 0.5	PT/A OZ/A	PRE PRE	99	91	99	74	84
DUAL MAGNUM+ SANDEA	1.33 1	PT/A OZ/A	PRE PRE	99	92	99	88	73
DUAL MAGNUM SANDEA+ NIS	1.33 0.5 0.5	PT/A OZ/A PT/A	PRE POST POST	99	86	99	74	75
DUAL MAGNUM SANDEA+ NIS	1.33 0.66 0.5	PT/A OZ/A PT/A	PRE POST POST	99	90	99	74	88
DUAL MAGNUM SANDEA+ NIS+ SENCOR	1.33 0.5 0.5 2	PT/A OZ/A PT/A OZ/A	PRE POST POST POST	99	88	99	99	79
DUAL MAGNUM+ SENCOR	1.33 10	PT/A OZ/A	PRE POST	99	79	99	74	69
DUAL MAGNUM; SENCOR+ MATRIX+ NIS	1.33 2 1 0.5	PT/A OZ/A OZ/A PT/A	PPI POST POST POST	99	79	99	98	94
DUAL MAGNUM; SENCOR+ MATRIX+ NIS	1.33 2 2 0.5	PT/A OZ/A OZ/A PT/A	PPI POST POST POST	99	86	99	73	96
LSD (P=.05)				23	25	23	39	15
Standard Deviation				16	17	16	27	11
CV				18	22	18	37	14

# The Ohio State University

## TOMATOES- HERBICIDE PROGRAMS FOR TRANSPLANTED PROCESSING TOMATOES

Trial ID: TOMHPTPFRE 2004

Study Dir: Douglas Doohan and T. Koch

Location: Fremont, Ohio

Investigator: Douglas Doohan

Weed Code	SOLPT	CHEAL	AMAXX	POROL	POLPY	ABUTH			
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES			
Part Rated	WEED	WEED	WEED	WEED	WEED	WEED			
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	%	%	%	%	%	%			
Rating Date	7/1/04	7/1/04	7/1/04	7/1/04	7/1/04	7/1/04			
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	18	19	20	21	22	23
WEEDY CONTROL				0	0	0	0	0	0
WEED FREE CONTROL				99	99	99	99	99	99
DUAL MAGNUM+ SANDEA	1.33 0.5	PT/A OZ/A	PRE PRE	92	97	99	73	99	98
DUAL MAGNUM+ SANDEA	1.33 1	PT/A OZ/A	PRE PRE	85	99	99	88	99	99
DUAL MAGNUM SANDEA+ NIS	1.33 0.5 0.5	PT/A OZ/A PT/A	PRE POST POST	91	96	99	71	99	97
DUAL MAGNUM SANDEA+ NIS	1.33 0.66 0.5	PT/A OZ/A PT/A	PRE POST POST	91	95	99	71	99	99
DUAL MAGNUM SANDEA+ NIS+ SENCOR	1.33 0.5 0.5 2	PT/A OZ/A PT/A OZ/A	PRE POST POST POST	93	98	99	98	99	99
DUAL MAGNUM+ SENCOR	1.33 10	PT/A OZ/A	PRE POST	95	97	99	99	99	99
DUAL MAGNUM; SENCOR+ MATRIX+ NIS	1.33 2 1 0.5	PT/A OZ/A OZ/A PT/A	PPI POST POST POST	85	98	99	99	99	99
DUAL MAGNUM; SENCOR+ MATRIX+ NIS	1.33 2 2 0.5	PT/A OZ/A OZ/A PT/A	PPI POST POST POST	94	99	99	99	99	99
LSD (P=.05)				12	4	0	12	0	2
Standard Deviation				8	3	0	8	0	2
CV				10	3	0	10	0	2

# The Ohio State University

## TOMATOES- HERBICIDE PROGRAMS FOR TRANSPLANTED PROCESSING TOMATOES

Trial ID: TOMHPTPFRE 2004

Study Dir: Douglas Doohan and T. Koch

Location: Fremont, Ohio

Investigator: Douglas Doohan

Weed Code				AGRASS	SOLPT	AMBEL	CHEAL	AMAXX	
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	
Part Rated				PLANT	WEED	WEED	WEED	WEED	
Rating Data Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit				%	%	%	%	%	
Rating Date				7/1/04	7/15/04	7/15/04	7/15/04	7/15/04	
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	24	25	26	27	28	29
WEEDY CONTROL				0	0	0	0	0	0
WEED FREE CONTROL				0	99	99	99	99	99
DUAL MAGNUM+ SANDEA	1.33 0.5	PT/A OZ/A	PRE PRE	3	82	93	99	95	99
DUAL MAGNUM+ SANDEA	1.33 1	PT/A OZ/A	PRE PRE	0	68	90	99	98	99
DUAL MAGNUM SANDEA+ NIS	1.33 0.5 0.5	PT/A OZ/A PT/A	PRE POST POST	0	68	93	99	98	99
DUAL MAGNUM SANDEA+ NIS	1.33 0.66 0.5	PT/A OZ/A PT/A	PRE POST POST	0	85	90	99	93	99
DUAL MAGNUM SANDEA+ NIS+ SENCOR	1.33 0.5 0.5 2	PT/A OZ/A PT/A OZ/A	PRE POST POST POST	0	73	96	99	99	99
DUAL MAGNUM+ SENCOR	1.33 10	PT/A OZ/A	PRE POST	8	62	96	99	96	99
DUAL MAGNUM; SENCOR+ MATRIX+ NIS	1.33 2 1 0.5	PT/A OZ/A OZ/A PT/A	PPI POST POST POST	5	95	93	99	99	99
DUAL MAGNUM; SENCOR+ MATRIX+ NIS	1.33 2 2 0.5	PT/A OZ/A OZ/A PT/A	PPI POST POST POST	8	99	94	99	99	99
LSD (P=.05)				8	13	7	0	3	0
Standard Deviation				5	9	5	0	2	0
CV				239	12	5	0	2	0

# The Ohio State University

## TOMATOES- HERBICIDE PROGRAMS FOR TRANSPLANTED PROCESSING TOMATOES

Trial ID: TOMHPTPFRE 2004

Study Dir: Douglas Doohan and T. Koch

Location: Fremont, Ohio

Investigator: Douglas Doohan

Weed Code				POROL	POLPY	ABUTH		AGRASS	SOLPT
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				WEED	WEED	WEED	PLANT	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/15/04	7/15/04	7/15/04	7/15/04	8/5/04	8/5/04
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	30	31	32	33	34	35
WEEDY CONTROL				0	0	0	42	0	0
WEED FREE CONTROL				99	99	99	0	99	98
DUAL MAGNUM+ SANDEA	1.33 0.5	PT/A OZ/A	PRE PRE	72	99	98	5	75	95
DUAL MAGNUM+ SANDEA	1.33 1	PT/A OZ/A	PRE PRE	78	99	93	0	67	93
DUAL MAGNUM SANDEA+ NIS	1.33 0.5 0.5	PT/A OZ/A PT/A	PRE POST POST	57	99	99	0	77	95
DUAL MAGNUM SANDEA+ NIS	1.33 0.66 0.5	PT/A OZ/A PT/A	PRE POST POST	60	99	99	0	85	95
DUAL MAGNUM SANDEA+ NIS+ SENCOR	1.33 0.5 0.5 2	PT/A OZ/A PT/A OZ/A	PRE POST POST POST	96	99	99	0	65	95
DUAL MAGNUM+ SENCOR	1.33 10	PT/A OZ/A	PRE POST	99	99	99	8	72	93
DUAL MAGNUM; SENCOR+ MATRIX+ NIS	1.33 2 1 0.5	PT/A OZ/A OZ/A PT/A	PPI POST POST POST	99	99	99	2	98	96
DUAL MAGNUM; SENCOR+ MATRIX+ NIS	1.33 2 2 0.5	PT/A OZ/A OZ/A PT/A	PPI POST POST POST	99	99	99	5	99	91
LSD (P=.05)				9	0	4	14	13	4
Standard Deviation				6	0	3	10	9	3
CV				8	0	3	159	13	4

# The Ohio State University

## TOMATOES- HERBICIDE PROGRAMS FOR TRANSPLANTED PROCESSING TOMATOES

Trial ID: TOMHPTPFRE 2004

Study Dir: Douglas Doohan and T. Koch

Location: Fremont, Ohio

Investigator: Douglas Doohan

Weed Code	A MBEL	CHEAL	AMAXX	POROL	POLPY	ABUTH			
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES			
Part Rated	WEED	WEED	WEED	WEED	WEED	WEED			
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	%	%	%	%	%	%			
Rating Date	8/5/04	8/5/04	8/5/04	8/5/04	8/5/04	8/5/04			
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	36	37	38	39	40	41
WEEDY CONTROL				0	0	0	0	0	0
WEED FREE CONTROL				99	98	99	96	99	99
DUAL MAGNUM+ SANDEA	1.33 0.5	PT/A OZ/A	PRE PRE	99	95	99	72	99	99
DUAL MAGNUM+ SANDEA	1.33 1	PT/A OZ/A	PRE PRE	99	98	99	82	99	99
DUAL MAGNUM SANDEA+ NIS	1.33 0.5 0.5	PT/A OZ/A PT/A	PRE POST POST	99	93	99	85	99	99
DUAL MAGNUM SANDEA+ NIS	1.33 0.66 0.5	PT/A OZ/A PT/A	PRE POST POST	99	88	99	75	99	99
DUAL MAGNUM SANDEA+ NIS+ SENCOR	1.33 0.5 0.5 2	PT/A OZ/A PT/A OZ/A	PRE POST POST POST	99	98	99	98	99	99
DUAL MAGNUM+ SENCOR	1.33 10	PT/A OZ/A	PRE POST	99	95	99	99	99	99
DUAL MAGNUM; SENCOR+ MATRIX+ NIS	1.33 2 1 0.5	PT/A OZ/A OZ/A PT/A	PPI POST POST POST	99	99	99	99	99	99
DUAL MAGNUM; SENCOR+ MATRIX+ NIS	1.33 2 2 0.5	PT/A OZ/A OZ/A PT/A	PPI POST POST POST	99	99	99	99	99	99
LSD (P=.05)				0	4	0	12	0	0
Standard Deviation				0	3	0	9	0	0
CV				0	3	0	11	0	0



# The Ohio State University

## TOMATOES- HERBICIDE PROGRAMS FOR TRANSPLANTED PROCESSING TOMATOES

Trial ID: TOMHPTPFRE 2004

Study Dir: Douglas Doohan and T. Koch

Location: Fremont, Ohio

Investigator: Douglas Doohan

Weed Code									
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	
Part Rated				PLANT	YIELD	YIELD	YIELD	YIELD	
Rating Data Type				INJURY	MKTB RED	GREEN	MKTB RED	GREEN	WT
Rating Unit				%	LBS	LBS	TONS/ACRE	TONS/ACRE	
Rating Date				8/5/04	9/15/04	9/15/04	9/15/04	9/15/04	9/15/04
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	42	43	44	46	47	
WEEDY CONTROL				53	36.8	3.3	6.4	0.6	
WEED FREE CONTROL				0	199	54.8	34.7	9.6	
DUAL MAGNUM+ SANDEA	1.33 0.5	PT/A OZ/A	PRE PRE	0	147.5	39.8	25.7	6.9	
DUAL MAGNUM+ SANDEA	1.33 1	PT/A OZ/A	PRE PRE	0	140.2	68.3	24.4	11.9	
DUAL MAGNUM SANDEA+ NIS	1.33 0.5 0.5	PT/A OZ/A PT/A	PRE POST POST	0	145.8	57.5	25.4	10	
DUAL MAGNUM SANDEA+ NIS	1.33 0.66 0.5	PT/A OZ/A PT/A	PRE POST POST	0	160.8	56.8	28	9.9	
DUAL MAGNUM SANDEA+ NIS+ SENCOR	1.33 0.5 0.5 2	PT/A OZ/A PT/A OZ/A	PRE POST POST POST	0	161.7	61.8	28.2	10.8	
DUAL MAGNUM+ SENCOR	1.33 10	PT/A OZ/A	PRE POST	0	142	61.4	24.7	10.7	
DUAL MAGNUM; SENCOR+ MATRIX+ NIS	1.33 2 1 0.5	PT/A OZ/A OZ/A PT/A	PPI POST POST POST	0	165.5	89.7	28.8	15.6	
DUAL MAGNUM; SENCOR+ MATRIX+ NIS	1.33 2 2 0.5	PT/A OZ/A OZ/A PT/A	PPI POST POST POST	0	205.3	82.8	35.8	14.4	
LSD (P=.05)				13	30.5	29.3	5.3	5.1	
Standard Deviation				9	21.0	20.2	3.7	3.5	
CV				170	14.0	35.0	14.0	35.0	

# The Ohio State University

## TOMATOES - HERBICIDES FOR TRIAZINE RESISTANT LAMBSQUARTERS 1

Trial ID: TOMTRIARESLO 2004      Study Dir: Douglas Doohan and T.Koch  
Location: Wooster, Ohio      Investigator: Douglas Doohan

### TRIAL LOCATION

City: Wooster      Trial Status: Final  
State/Prov: Ohio      Trial Reliability: Reliable  
Postal Code: 44691      Initiation Date: 06/02/04  
Planned Completion Date: 12/01/04

Objective: To evaluate Sandea, Matrix, and Harmony, (PRE and POST) on processing tomatoes for control of triazine resistant lambsquarters.

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	CHEAL	common lambsquarter	<i>Chenopodium album</i> L.
2	SOLPT	Eastern black nightshade	<i>Solanum ptycanthum</i> Dun.
3	AMAXX	pigweed species	<i>Amaranth</i> spp.
4	AMBTR	giant ragweed	<i>Ambrosia trifida</i> L.
5	AGRASS	annual grasses (various)	<i>Setaria</i> spp.and <i>Digitaria</i> spp.

Crop 1: LYPES PROCESSING TOMATO      Variety: Red Gold, Inc. #111 (20011-02)  
Planting Date: 06/02/04      Planting Method: CONVENTIONAL  
Rate: 12 IN      Depth: 2 IN  
Row Spacing: 5 FT      Seed Bed: CONVENTIONAL  
Soil Moisture: MOIST

### SITE AND DESIGN

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

### SOIL DESCRIPTION

% Sand: 10.7      % OM: 3      Texture: SILT LOAM  
% Silt: 72.8      pH: 6.0      Soil Name: WOOSTER SILT LOAM  
% Clay: 13.6      CEC: 13      Fert. Level: MODERATE

### APPLICATION DESCRIPTION

	A	B
Application Date:	6/2/2004	6/29/2004
Time of Day:	9-10 AM	9-10 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	65 F	63 F
% Relative Humidity:	61	94
Wind Velocity, Unit:	6 MPH	2 MPH
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	80	50

### CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	LYPES PRE	LYPES POST
Stage Scale:	NONE	VEGETATIVE
Height, Unit:	0 IN	12 IN

# The Ohio State University

## TOMATOES - HERBICIDES FOR TRIAZINE RESISTANT LAMBSQUARTERS 1

### WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	CHEAL PRE	CHEAL POST
Stage Scale:	.	4 IN
Density, Unit:	. .	MEDIUM
Weed 2 Code, Stage:	SOLPT PRE	SOLPT POST
Stage Scale:	.	4 IN
Density, Unit:	. .	LOW
Weed 3 Code, Stage:	AMAXX PRE	AMAXX POST
Stage Scale:	.	4 IN
Density, Unit:	. .	MEDIUM
Weed 4 Code, Stage:	AMBTR PRE	AMBTR POST
Stage Scale:	.	15 IN
Density, Unit:	. .	HIGH
Weed 5 Code, Stage:	AGRAS	AGRASS
Stage Scale:	.	15 IN
Density, Unit:	. .	HIGH

### APPLICATION EQUIPMENT

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

### Trial Comments

No tomato harvest due to high giant ragweed pressure.

# The Ohio State University

## TOMATOES - HERBICIDES FOR TRIAZINE RESISTANT LAMBSQUARTERS 1

Trial ID: TOMTRIARESLO 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code				AGRASS	AMBTR	CHEAL	SOLPT	TAROF		
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	WEED	WEED	WEED	WEED	WEED	PLANT
Rating Data Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit				%	%	%	%	%	%	%
Rating Date				6/9/04	6/9/04	6/9/04	6/9/04	6/9/04	6/9/04	6/16/04
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6	7
CONTROL				0	0	0	0	0	0	0
SANDEA	0.5	OZ/A	PRE	0	0	0	0	0	0	0
MATRIX	1	OZ/A	PRE	0	0	0	0	0	0	10
HARMONY	5.5	G/HA	PRE	0	0	0	0	0	0	0
SANDEA+ NIS	0.5 0.5	OZ/A PT/A	POST POST	0	0	0	0	0	0	0
MATRIX+ NIS	1 0.5	OZ/A PT/A	POST POST	0	0	0	0	0	0	0
HARMONY+ NIS	5.5 0.5	G/HA PT/A	POST POST	0	0	0	0	0	0	0
LSD (P=.05)				0	0	0	0	0	0	0
Standard Deviation				0	0	0	0	0	0	0
CV				0	0	0	0	0	0	0

# The Ohio State University

## TOMATOES - HERBICIDES FOR TRIAZINE RESISTANT LAMBSQUARTERS 1

Trial ID: TOMTRIARESLO 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code	AGRASS	AMBTR	CHEAL	SOLPT	TAROF				
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES			
Part Rated	WEED	WEED	WEED	WEED	WEED	PLANT			
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY			
Rating Unit	%	%	%	%	%	%			
Rating Date	6/16/04	6/16/04	6/16/04	6/16/04	6/16/04	7/6/04			
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	8	9	10	11	12	13
CONTROL				0	0	0	0	0	0
SANDEA	0.5	OZ/A	PRE	45	70	83	80	43	19
MATRIX	1	OZ/A	PRE	0	0	46	0	0	9
HARMONY	5.5	G/HA	PRE	20	0	6	0	0	5
SANDEA+ NIS	0.5 0.5	OZ/A PT/A	POST POST	0	0	0	0	0	9
MATRIX+ NIS	1 0.5	OZ/A PT/A	POST POST	0	0	0	0	0	10
HARMONY+ NIS	5.5 0.5	G/HA PT/A	POST POST	0	0	0	0	0	9
LSD (P=.05)				22	7	22	2	7	14
Standard Deviation				15	4	15	2	5	9
CV				162	44	76	14	78	108

# The Ohio State University

## TOMATOES - HERBICIDES FOR TRIAZINE RESISTANT LAMBSQUARTERS 1

Trial ID: TOMTRIARESLO 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code	AMBTR	CHEAL	SOLPT	TAROF		AMBTR
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated	WEED	WEED	WEED	WEED	PLANT	WEED
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	%	%	%	%	%	%
Rating Date	7/6/04	7/6/04	7/6/04	7/6/04	7/20/04	7/20/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	14	15	16	17	18	19
CONTROL				0	0	0	0	0	0
SANDEA	0.5	OZ/A	PRE	73	88	0	0	0	80
MATRIX	1	OZ/A	PRE	0	0	20	0	0	0
HARMONY	5.5	G/HA	PRE	0	0	0	0	0	0
SANDEA+ NIS	0.5 0.5	OZ/A PT/A	POST POST	45	16	29	0	0	85
MATRIX+ NIS	1 0.5	OZ/A PT/A	POST POST	20	88	0	43	0	75
HARMONY+ NIS	5.5 0.5	G/HA PT/A	POST POST	43	94	0	55	0	55
LSD (P=.05)				25	4	35	4	0	25
Standard Deviation				17	3	24	3	0	17
CV				64	6	344	20	0	39

# The Ohio State University

## TOMATOES - HERBICIDES FOR TRIAZINE RESISTANT LAMBSQUARTERS 1

Trial ID: TOMTRIARESLO 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code	CHEAL	SOLPT	TAROF	AMBTR	CHEAL	SOLPT	TAROF
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated	WEED	WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%	%
Rating Date	7/20/04	7/20/04	7/20/04	8/10/04	8/10/04	8/10/04	8/10/04

Treatment	Product	Product	Grow							
Name	Rate	Rate Unit	Stg	20	21	22	23	24	25	26
CONTROL				0	0	0	0	0	0	0
SANDEA	0.5	OZ/A	PRE	81	0	0	73	89	0	28
MATRIX	1	OZ/A	PRE	0	0	0	3	0	90	0
HARMONY	5.5	G/HA	PRE	0	65	0	0	0	0	0
SANDEA+ NIS	0.5 0.5	OZ/A PT/A	POST POST	5	60	61	89	40	60	55
MATRIX+ NIS	1 0.5	OZ/A PT/A	POST POST	79	10	79	63	75	26	85
HARMONY+ NIS	5.5 0.5	G/HA PT/A	POST POST	98	18	14	39	98	25	18
LSD (P=.05)				8	20	8	29	11	35	17
Standard Deviation				5	13	5	19	7	23	12
CV				14	61	24	51	17	81	44

# The Ohio State University

## TOMATOES - HERBICIDES FOR TRIAZINE RESISTANT LAMBSQUARTERS 2

Trial ID: TOMTRIAZLQ2 2004      Study Dir: Douglas Doohan and T. Koch  
Location: Wooster, Ohio      Investigator: Douglas Doohan

### TRIAL LOCATION

City: Wooster      Trial Status: Final  
State/Prov: Ohio      Trial Reliability: Reliable  
Postal Code: 44691      Initiation Date: 06/02/04  
Planned Completion Date: 12/01/04

Objective: To evaluate Sandea, Matrix, and Harmony, (PRE and POST), on processing tomatoes for control of triazine resistant lambsquarters.

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	CHEAL	common lambsquarter	<i>Chenopodium album</i> L.
2	SOLPT	Eastern black nightshade	<i>Solanum ptycanthum</i> Dun.
3	AMAXX	pigweed species	<i>Amaranth</i> spp.
4	CIRAR	Canada thistle	<i>Cirsium arvense</i> (L.) Scop.
5	TAROF	dandelion	<i>Taraxacum officinale</i> Weber
6	MELAL	white campion	<i>Silene alba</i> (Mill.) E.H.L.Krause

Crop 1: LYPES PROCESSING TOMATO Variety: Red Gold, Inc. #111 (20011-02)  
Planting Date: 06/21/04      Planting Method: HAND TRANSPLANTED  
Rate: 12 IN      Depth: 2 IN  
Row Spacing: 5 FT      Seed Bed: CONVENTIONAL  
Soil Moisture: MOIST

### 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

### SOIL DESCRIPTION

% Sand: 10.7      % OM: 3      Texture: SILT LOAM  
% Silt: 72.8      pH: 6.0      Soil Name: WOOSTER SILT LOAM  
% Clay: 13.6      CEC: 3      Fert. Level: MODERATE

### APPLICATION DESCRIPTION

	A	B
Application Date:	6/18/2004	7/30/2004
Time of Day:	8-9 AM	12-1 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	70 F	81 F
% Relative Humidity:	92	80
Wind Velocity, Unit:	2 MPH	2 MPH

### CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	LYPES PRE	LYPES POST
Stage Scale:	.	VEGETATIVE
Height, Unit:	0 IN	15 IN



# The Ohio State University

## TOMATOES - HERBICIDES FOR TRIAZINE RESISTANT LAMBSQUARTERS 2

### WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	CHEAL PRE	CHEAL POST
Stage Scale:	.	7 IN
Density, Unit:	. .	HIGH
Weed 2 Code, Stage:	SOLPT PRE	SOLPT POST
Stage Scale:	.	6 LEAF
Density, Unit:	. .	HIGH
Weed 3 Code, Stage:	AMAXX PRE	AMAXX POST
Stage Scale:	.	15 LEAF
Density, Unit:	. .	MEDIUM
Weed 4 Code, Stage:	CIRAR PRE	CIRAR POST
Stage Scale:	.	5 IN
Density, Unit:	. .	MEDIUM
Weed 5 Code, Stage:	TAROF PRE	TAROF POST
Stage Scale:	.	4 IN DIAMETER
Density, Unit:	. .	LOW
Weed 6 Code, Stage:	MELAL PRE	MELAL POST
Stage Scale:	.	2 IN
Density, Unit:	. .	MEDIUM

### APPLICATION EQUIPMENT

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

### Trial Comments

Yields were taken on 5 plants per plot. They were graded into red marketable, and green fruit.

# The Ohio State University

## TOMATOES - HERBICIDES FOR TRIAZINE RESISTANT LAMBSQUARTERS 2

Trial ID: TOMTRIAZLQ2 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code		AGRASS	CHEAL	SOLPT	TAROF		AGRASS
Crop Code		LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated		PLANT	WEED	WEED	WEED	PLANT	WEED
Rating Data Type		INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit		%	%	%	%	%	%
Rating Date		7/9/04	7/9/04	7/9/04	7/9/04	7/30/04	7/30/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6	7
CONTROL				0	0	0	0	0	0	0
SANDEA	0.5	OZ/A	PRE	0	0	73	0	0	0	0
MATRIX	1	OZ/A	PRE	0	75	75	81	0	6	85
HARMONY	0.475	OZ/A	PRE	0	0	0	0	0	0	0
HARMONY+ NIS	2.5 0.5	G/HA PT/A	POST POST	0	0	0	0	0	0	0
HARMONY+ NIS	5.5 0.5	G/HA PT/A	POST POST	0	0	0	0	0	0	0
HARMONY+ NIS	11 0.5	G/HA PT/A	POST POST	0	0	0	0	0	0	0
LSD (P=.05)				0	2	3	1	0	7	0
Standard Deviation				0	2	2	1	0	5	0
CV				0	14	9	8	0	529	0

# The Ohio State University

## TOMATOES - HERBICIDES FOR TRIAZINE RESISTANT LAMBSQUARTERS 2

Trial ID: TOMTRIAZLQ2 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code	CHEAL	SOLPT	TAROF		CHEAL	SOLPT			
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES			
Part Rated	WEED	WEED	WEED	PLANT	WEED	WEED			
Rating Data Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL			
Rating Unit	%	%	%	%	%	%			
Rating Date	7/30/04	7/30/04	7/30/04	8/6/04	8/6/04	8/6/04			
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	8	9	10	11	12	13
CONTROL				0	0	0	0	0	0
SANDEA	0.5	OZ/A	PRE	85	0	0	0	48	0
MATRIX	1	OZ/A	PRE	86	85	0	0	83	24
HARMONY	0.475	OZ/A	PRE	0	0	0	0	3	0
HARMONY+ NIS	2.5 0.5	G/HA PT/A	POST POST	0	0	0	0	36	0
HARMONY+ NIS	5.5 0.5	G/HA PT/A	POST POST	0	0	0	0	50	3
HARMONY+ NIS	11 0.5	G/HA PT/A	POST POST	0	0	0	0	64	29
LSD (P=.05)				8	3	0	0	21	35
Standard Deviation				5	2	0	0	14	24
CV				21	18	0	0	35	304

# The Ohio State University

## TOMATOES - HERBICIDES FOR TRIAZINE RESISTANT LAMBSQUARTERS 2

Trial ID: TOMTRIAZLQ2 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code	TAROF	AMAXX	MELAL	CIRAR		CHEAL	SOLPT
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated	WEED	WEED	WEED	WEED	PLANT	WEED	WEED
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%	%
Rating Date	8/6/04	8/6/04	8/6/04	8/6/04	8/20/04	8/20/04	8/20/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	14	15	16	17	18	19	20
CONTROL				0	0	0	0	0	0	0
SANDEA	0.5	OZ/A	PRE	4	56	78	15	3	50	10
MATRIX	1	OZ/A	PRE	30	99	99	78	5	61	28
HARMONY	0.475	OZ/A	PRE	0	74	77	11	3	30	20
HARMONY+ NIS	2.5 0.5	G/HA PT/A	POST POST	18	62	21	18	0	78	18
HARMONY+ NIS	5.5 0.5	G/HA PT/A	POST POST	24	50	30	25	5	97	24
HARMONY+ NIS	11 0.5	G/HA PT/A	POST POST	28	49	31	31	3	91	21
LSD (P=.05)				27	57	36	25	10	31	55
Standard Deviation				18	38	24	17	7	21	37
CV				124	69	51	66	264	36	216

# The Ohio State University

## TOMATOES - HERBICIDES FOR TRIAZINE RESISTANT LAMBSQUARTERS 2

Trial ID: TOMTRIAZLQ2 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code	TAROF	AMAXX	MELAL	CIRAR		CHEAL	SOLPT
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated	WEED	WEED	WEED	WEED	PLANT	WEED	WEED
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%	%
Rating Date	8/20/04	8/20/04	8/20/04	8/20/04	9/10/04	9/10/04	9/10/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	21	22	23	24	25	26	27
CONTROL				0	0	0	0	0	0	0
SANDEA	0.5	OZ/A	PRE	63	74	99	42	0	60	0
MATRIX	1	OZ/A	PRE	57	99	99	80	0	68	4
HARMONY	0.475	OZ/A	PRE	15	57	74	23	0	33	0
HARMONY+ NIS	2.5 0.5	G/HA PT/A	POST POST	24	74	47	15	0	85	5
HARMONY+ NIS	5.5 0.5	G/HA PT/A	POST POST	0	99	24	10	0	94	20
HARMONY+ NIS	11 0.5	G/HA PT/A	POST POST	0	74	25	46	0	95	0
LSD (P=.05)				47	57	57	49	0	29	23
Standard Deviation				31	38	39	33	0	20	16
CV				139	56	73	107	0	32	380

# The Ohio State University

## TOMATOES - HERBICIDES FOR TRIAZINE RESISTANT LAMBSQUARTERS 2

Trial ID: TOMTRIAZLQ2 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code	TAROF	AMAXX	MELAL	CIRAR				
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated	WEED	WEED	WEED	WEED	YIELD	YIELD	YIELD	
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	50 FRUIT	MKTB RED	GREEN	
Rating Unit	%	%	%	%	KG	KG	KG	
Rating Date	9/10/04	9/10/04	9/10/04	9/10/04	9/30/04	9/30/04	9/30/04	

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	28	29	30	31	32	33	34
CONTROL				0	0	0	0	3.4	7.6	3.8
SANDEA	0.5	OZ/A	PRE	89	99	93	28	3.3	10.9	3.6
MATRIX	1	OZ/A	PRE	45	99	72	47	3.3	9	5
HARMONY	0.475	OZ/A	PRE	0	0	0	0	3.3	9.7	2.5
HARMONY+ NIS	2.5 0.5	G/HA PT/A	POST POST	0	99	20	0	3.3	11	4.8
HARMONY+ NIS	5.5 0.5	G/HA PT/A	POST POST	0	99	0	0	3.4	11.5	5.3
HARMONY+ NIS	11 0.5	G/HA PT/A	POST POST	0	99	20	20	3.4	11.8	3.5
LSD (P=.05)				29	0	41	42	0.3	5.7	2.7
Standard Deviation				20	0	27	28	0.2	3.8	1.8
CV				103	0	93	207	5.2	37.5	44.4

# The Ohio State University

## TOMATOES - RESPONSE OF VARIETIES TO HARMONY AND SANDEA

Trial ID: TOMGHSCREENW 2004 Study Dir: Douglas Doohan and T. Koch  
Location: Wooster, Ohio Investigator: Douglas Doohan

### TRIAL LOCATION

City: Wooster Trial Status: Final  
State/Prov: Ohio Trial Reliability: Reliable  
Postal Code: 44691 Initiation Date: 07/12/04  
Planned Completion Date: 12/01/04

Objective: To evaluate crop tolerance to Sandea and Harmony GT on greenhouse grown processing tomato varieties

Crop 1: LYPES PROCESSING TOMATO Variety: 18 Processing varieties  
Planting Date: 05/10/04 Planting Method: GREENHOUSE GROWN

### SITE AND DESIGN

Plot Width, Unit: 10 FT Plot Length, Unit: 20 FT  
Study Design: SPLIT-PLOT Reps: 3

### SOIL DESCRIPTION

Texture: PEAT/PERLITE  
Soil Name: PRO MIX BX  
Fert. Level: HIGH

### APPLICATION DESCRIPTION

A  
Application Date: 7/12/2004  
Time of Day: 11-12 AM  
Application Method: SPRAY  
Application Timing: POST  
Applic. Placement: BROADCAST  
Air Temp., Unit: 80 F  
% Relative Humidity: 85  
Wind Velocity, Unit: 0 MPH  
% Cloud Cover: 0

### CROP STAGE AT EACH APPLICATION

A  
Crop 1 Code, Stage: LYPES POST  
Stage Scale: VEGETATIVE  
Height, Unit: 10 IN

### APPLICATION EQUIPMENT

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

# The Ohio State University

## TOMATOES - RESPONSE OF VARIETIES TO HARMONY AND SANDEA

### Trial Comments

Plants were seeded and grown in flats using Pro-Mix BX under standard greenhouse conditions for tomatoes. They were shifted to a larger flat size on 6/17, until they were approximately 8-10" tall. On 7/12, the flats of tomatoes were taken to the field and sprayed conventionally with a tractor. They were then taken back to the greenhouse and rated weekly. On 8/2, plants were cut at the soil line, bagged, dried, and weighed. There was one plant per rep. Injury values reported are relative to an untreated control.

Varieties tested were: \* denotes an Ohio breeding line

- 1) TSH 18
- 2) 8556\*
- 3) 2K1-2019\*
- 4) 97704\*
- 5) 7814\*
- 6) 8243\*
- 7) Heinz 9242
- 8) 2K1-1439\*
- 9) 2K1-2030\*
- 10) 2K-2641\*
- 11) 9241\*
- 12) 2K-2603\*
- 13) E3259\*
- 14) 2K1-2054\*
- 15) 987034\*
- 16) 2K-2606\*
- 17) SUPER SWEET
- 18) BIG BOY



# The Ohio State University

## TOMATOES - RESPONSE OF VARIETIES TO HARMONY AND SANDEA

Trial ID: TOMGHSCREENW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
PLANT	PLANT	LEAF	LEAF	PLANT	PLANT	LEAF
CHLOROSIS	STUNT	CURL	BURN	CHLOROSIS	STUNT	CURL
%	%	%	%	%	%	%
7/19/04	7/19/04	7/19/04	7/19/04	7/26/04	7/26/04	7/26/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6	7
<b>TSH 18</b>										
SANDEA+	0.5	OZ/A	POST	7	3	7	0	0	5	0
NIS	0.5	PT/A								
<b>8556</b>										
SANDEA+	0.5	OZ/A	POST	17	2	3	0	0	30	0
NIS	0.5	PT/A								
<b>2K1-2019</b>										
SANDEA+	0.5	OZ/A	POST	4	2	0	0	0	0	0
NIS	0.5	PT/A								
<b>97704</b>										
SANDEA+	0.5	OZ/A	POST	17	0	2	0	0	0	0
NIS	0.5	PT/A								
<b>7814</b>										
SANDEA+	0.5	OZ/A	POST	20	5	0	0	0	0	0
NIS	0.5	PT/A								
<b>8243</b>										
SANDEA+	0.5	OZ/A	POST	20	13	0	0	0	18	6
NIS	0.5	PT/A								
<b>9242</b>										
SANDEA+	0.5	OZ/A	POST	8	0	0	0	0	0	0
NIS	0.5	PT/A								
<b>2K1-1439</b>										
SANDEA+	0.5	OZ/A	POST	15	2	3	5	0	8	0
NIS	0.5	PT/A								
<b>2K1-2030</b>										
SANDEA+	0.5	OZ/A	POST	3	0	0	0	0	0	0
NIS	0.5	PT/A								
<b>2K-2641</b>										
SANDEA+	0.5	OZ/A	POST	25	0	0	0	0	5	0
NIS	0.5	PT/A								

# The Ohio State University

## TOMATOES - RESPONSE OF VARIETIES TO HARMONY AND SANDEA

Trial ID: TOMGHSCREENW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
	PLANT	PLANT	LEAF	LEAF	PLANT	PLANT	LEAF
	CHLOROSIS	STUNT	CURL	BURN	CHLOROSIS	STUNT	CURL
	%	%	%	%	%	%	%
	7/19/04	7/19/04	7/19/04	7/19/04	7/26/04	7/26/04	7/26/04

Treatment	Product	Product	Grow							
Name	Rate	Rate Unit	Stg	1	2	3	4	5	6	7
<b>9241</b>										
SANDEA+	0.5	OZ/A	POST	6	5	2	0	0	0	0
NIS	0.5	PT/A								
<b>2K-2603</b>										
SANDEA+	0.5	OZ/A	POST	15	5	0	0	5	5	2
NIS	0.5	PT/A								
<b>E3259</b>										
SANDEA+	0.5	OZ/A	POST	12	3	0	0	0	8	3
NIS	0.5	PT/A								
<b>2K1-2054</b>										
SANDEA+	0.5	OZ/A	POST	20	0	3	0	0	3	0
NIS	0.5	PT/A								
<b>987034</b>										
SANDEA+	0.5	OZ/A	POST	8	7	2	0	0	5	2
NIS	0.5	PT/A								
<b>2K-2606</b>										
SANDEA+	0.5	OZ/A	POST	28	7	0	0	0	7	2
NIS	0.5	PT/A								
<b>SUPER SWEET</b>										
SANDEA+	0.5	OZ/A	POST	4	2	0	0	0	13	0
NIS	0.5	PT/A								
<b>BIGBOY</b>										
SANDEA+	0.5	OZ/A	POST	18	7	3	0	5	5	5
NIS	0.5	PT/A								
<b>TSH 18</b>										
HARMONY GT+	5.5	G/HA	POST	3	2	13	0	0	22	30
NIS	0.5	PT/A								
<b>8556</b>										
HARMONY GT+	5.5	G/HA	POST	30	2	0	5	5	45	10
NIS	0.5	PT/A								

# The Ohio State University

## TOMATOES - RESPONSE OF VARIETIES TO HARMONY AND SANDEA

Trial ID: TOMGHSCREENW 2004  
 Study Dir: Douglas Doohan and T. Koch  
 Location: Wooster, Ohio  
 Investigator: Douglas Doohan

Weed Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Crop Code				PLANT	PLANT	LEAF	LEAF	PLANT	PLANT	LEAF
Part Rated				CHLOROSIS	STUNT	CURL	BURN	CHLOROSIS	STUNT	CURL
Rating Data Type				%	%	%	%	%	%	%
Rating Unit				7/19/04	7/19/04	7/19/04	7/19/04	7/26/04	7/26/04	7/26/04
Treatment	Product	Product	Grow							
Name	Rate	Rate Unit	Stg	1	2	3	4	5	6	7
<b>2K1-2019</b>										
HARMONY GT+	5.5	G/HA	POST	4	2	3	0	0	17	0
NIS	0.5	PT/A								
<b>97704</b>										
HARMONY GT+	5.5	G/HA	POST	17	0	0	7	5	43	2
NIS	0.5	PT/A								
<b>7814</b>										
HARMONY GT+	5.5	G/HA	POST	20	8	0	0	5	50	3
NIS	0.5	PT/A								
<b>8243</b>										
HARMONY GT+	5.5	G/HA	POST	13	5	0	0	5	53	19
NIS	0.5	PT/A								
<b>9242</b>										
HARMONY GT+	5.5	G/HA	POST	8	0	12	0	2	22	0
NIS	0.5	PT/A								
<b>2K1-1439</b>										
HARMONY GT+	5.5	G/HA	POST	22	10	0	5	2	45	0
NIS	0.5	PT/A								
<b>2K1-2030</b>										
HARMONY GT+	5.5	G/HA	POST	5	3	3	5	2	15	3
NIS	0.5	PT/A								
<b>2K-2641</b>										
HARMONY GT+	5.5	G/HA	POST	12	7	0	2	25	33	16
NIS	0.5	PT/A								
<b>9241</b>										
HARMONY GT+	5.5	G/HA	POST	7	5	0	0	0	20	0
NIS	0.5	PT/A								
<b>2K-2603</b>										
HARMONY GT+	5.5	G/HA	POST	15	8	0	0	12	28	10
NIS	0.5	PT/A								

# The Ohio State University

## TOMATOES - RESPONSE OF VARIETIES TO HARMONY AND SANDEA

Trial ID: TOMGHSCREENW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

Treatment	Product	Product	Grow	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Name	Rate	Rate Unit	Stg	PLANT	PLANT	LEAF	LEAF	PLANT	PLANT	LEAF
				CHLOROSIS	STUNT	CURL	BURN	CHLOROSIS	STUNT	CURL
				%	%	%	%	%	%	%
				7/19/04	7/19/04	7/19/04	7/19/04	7/26/04	7/26/04	7/26/04
				1	2	3	4	5	6	7
<b>E3259</b>										
HARMONY GT+	5.5	G/HA	POST	13	5	0	8	0	18	8
NIS	0.5	PT/A								
<b>2K1-2054</b>										
HARMONY GT+	5.5	G/HA	POST	17	7	0	3	12	30	2
NIS	0.5	PT/A								
<b>987034</b>										
HARMONY GT+	5.5	G/HA	POST	11	17	0	3	5	28	3
NIS	0.5	PT/A								
<b>2K-2606</b>										
HARMONY GT+	5.5	G/HA	POST	23	12	0	15	8	27	30
NIS	0.5	PT/A								
<b>SUPER SWEET</b>										
HARMONY GT+	5.5	G/HA	POST	8	7	0	0	0	15	0
NIS	0.5	PT/A								
<b>BIGBOY</b>										
HARMONY GT+	5.5	G/HA	POST	13	2	0	3	0	57	20
NIS	0.5	PT/A								
LSD (P=.05)				11	8	4	7	2	8	9
Standard Deviation				7	5	2	4	1	5	6
CV				83	173	254	339	65	42	166

# The Ohio State University

## TOMATOES - RESPONSE OF VARIETIES TO HARMONY AND SANDEA

Trial ID: TOMGHSCREENW 2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

LYPES

LYPES

LYPES

LYPES

LYPES

LYPES

LEAF

PLANT

PLANT

LEAF

LEAF

PLANT DRY WEIGHT

BURN

CHLOROSIS

STUNT

CURL

BURN

% OF CONTROL

%

%

%

%

%

GRAMS

7/26/04

8/2/04

8/2/04

8/2/04

8/2/04

8/2/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	8	9	10	11	12	13
<b>TSH 18</b>									
SANDEA+	0.5	OZ/A	POST	0	0	3	7	0	100
NIS	0.5	PT/A							
<b>8556</b>									
SANDEA+	0.5	OZ/A	POST	0	0	3	2	2	91
NIS	0.5	PT/A							
<b>2K1-2019</b>									
SANDEA+	0.5	OZ/A	POST	0	0	0	0	5	100
NIS	0.5	PT/A							
<b>97704</b>									
SANDEA+	0.5	OZ/A	POST	0	0	0	0	0	100
NIS	0.5	PT/A							
<b>7814</b>									
SANDEA+	0.5	OZ/A	POST	0	0	0	0	0	100
NIS	0.5	PT/A							
<b>8243</b>									
SANDEA+	0.5	OZ/A	POST	0	0	0	0	0	97
NIS	0.5	PT/A							
<b>9242</b>									
SANDEA+	0.5	OZ/A	POST	0	0	0	0	0	100
NIS	0.5	PT/A							
<b>2K1-1439</b>									
SANDEA+	0.5	OZ/A	POST	0	0	0	3	5	89
NIS	0.5	PT/A							
<b>2K1-2030</b>									
SANDEA+	0.5	OZ/A	POST	0	0	0	10	2	93
NIS	0.5	PT/A							
<b>2K-2641</b>									
SANDEA+	0.5	OZ/A	POST	0	3	3	3	3	100
NIS	0.5	PT/A							

# The Ohio State University

## TOMATOES - RESPONSE OF VARIETIES TO HARMONY AND SANDEA

Trial ID: TOMGHSCREENW 2004  
 Study Dir: Douglas Doohan and T. Koch  
 Location: Wooster, Ohio  
 Investigator: Douglas Doohan

Weed Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Crop Code				LEAF	PLANT	PLANT	LEAF	LEAF	PLANT DRY WEIGHT
Part Rated				BURN	CHLOROSIS	STUNT	CURL	BURN	% OF CONTROL
Rating Data Type				%	%	%	%	%	GRAMS
Rating Unit				7/26/04	8/2/04	8/2/04	8/2/04	8/2/04	8/2/04
Treatment	Product	Product	Grow						
Name	Rate	Rate Unit	Stg	8	9	10	11	12	13
<b>9241</b>									
SANDEA+	0.5	OZ/A	POST	0	0	5	2	3	100
NIS	0.5	PT/A							
<b>2K-2603</b>									
SANDEA+	0.5	OZ/A	POST	0	0	0	3	5	93
NIS	0.5	PT/A							
<b>E3259</b>									
SANDEA+	0.5	OZ/A	POST	0	0	0	0	0	94
NIS	0.5	PT/A							
<b>2K1-2054</b>									
SANDEA+	0.5	OZ/A	POST	0	0	2	0	0	68
NIS	0.5	PT/A							
<b>987034</b>									
SANDEA+	0.5	OZ/A	POST	0	0	3	0	5	89
NIS	0.5	PT/A							
<b>2K-2606</b>									
SANDEA+	0.5	OZ/A	POST	0	7	0	8	3	95
NIS	0.5	PT/A							
<b>SUPER SWEET</b>									
SANDEA+	0.5	OZ/A	POST	0	0	5	0	0	86
NIS	0.5	PT/A							
<b>BIGBOY</b>									
SANDEA+	0.5	OZ/A	POST	2	0	3	7	5	97
NIS	0.5	PT/A							
<b>TSH 18</b>									
HARMONY GT+	5.5	G/HA	POST	0	0	8	18	0	86
NIS	0.5	PT/A							
<b>8556</b>									
HARMONY GT+	5.5	G/HA	POST	5	0	32	8	8	63
NIS	0.5	PT/A							

# The Ohio State University

## TOMATOES - RESPONSE OF VARIETIES TO HARMONY AND SANDEA

Trial ID: TOMGHSCREENW 2004  
 Study Dir: Douglas Doohan and T. Koch  
 Location: Wooster, Ohio  
 Investigator: Douglas Doohan

Weed Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Crop Code				LEAF	PLANT	PLANT	LEAF	LEAF	PLANT DRY WEIGHT
Part Rated				BURN	CHLOROSIS	STUNT	CURL	BURN	% OF CONTROL
Rating Data Type				%	%	%	%	%	GRAMS
Rating Unit				7/26/04	8/2/04	8/2/04	8/2/04	8/2/04	8/2/04
Rating Date									
Treatment	Product	Product	Grow						
Name	Rate	Rate Unit	Stg	8	9	10	11	12	13
<b>2K1-2019</b>									
HARMONY GT+	5.5	G/HA	POST	0	0	0	7	2	93
NIS	0.5	PT/A							
<b>97704</b>									
HARMONY GT+	5.5	G/HA	POST	7	7	23	7	12	79
NIS	0.5	PT/A							
<b>7814</b>									
HARMONY GT+	5.5	G/HA	POST	0	0	40	0	0	70
NIS	0.5	PT/A							
<b>8243</b>									
HARMONY GT+	5.5	G/HA	POST	0	0	40	0	5	75
NIS	0.5	PT/A							
<b>9242</b>									
HARMONY GT+	5.5	G/HA	POST	0	0	0	0	0	95
NIS	0.5	PT/A							
<b>2K1-1439</b>									
HARMONY GT+	5.5	G/HA	POST	0	0	20	3	3	70
NIS	0.5	PT/A							
<b>2K1-2030</b>									
HARMONY GT+	5.5	G/HA	POST	0	0	18	5	7	77
NIS	0.5	PT/A							
<b>2K-2641</b>									
HARMONY GT+	5.5	G/HA	POST	0	20	45	15	10	76
NIS	0.5	PT/A							
<b>9241</b>									
HARMONY GT+	5.5	G/HA	POST	0	0	12	0	3	88
NIS	0.5	PT/A							
<b>2K-2603</b>									
HARMONY GT+	5.5	G/HA	POST	0	3	15	7	10	68
NIS	0.5	PT/A							

# The Ohio State University

## TOMATOES - RESPONSE OF VARIETIES TO HARMONY AND SANDEA

Trial ID: TOMGHSCREENW 2004  
 Study Dir: Douglas Doohan and T. Koch  
 Location: Wooster, Ohio  
 Investigator: Douglas Doohan

Weed Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Crop Code				LEAF	PLANT	PLANT	LEAF	LEAF	PLANT DRY WEIGHT
Part Rated				BURN	CHLOROSIS	STUNT	CURL	BURN	% OF CONTROL
Rating Data Type				%	%	%	%	%	GRAMS
Rating Unit				7/26/04	8/2/04	8/2/04	8/2/04	8/2/04	8/2/04
Rating Date									
Treatment	Product	Product	Grow						
Name	Rate	Rate Unit	Stg	8	9	10	11	12	13
<b>E3259</b>									
HARMONY GT+	5.5	G/HA	POST	8	5	3	3	8	78
NIS	0.5	PT/A							
<b>2K1-2054</b>									
HARMONY GT+	5.5	G/HA	POST	8	2	30	0	8	49
NIS	0.5	PT/A							
<b>987034</b>									
HARMONY GT+	5.5	G/HA	POST	7	0	18	7	10	70
NIS	0.5	PT/A							
<b>2K-2606</b>									
HARMONY GT+	5.5	G/HA	POST	15	2	25	13	15	78
NIS	0.5	PT/A							
<b>SUPER SWEET</b>									
HARMONY GT+	5.5	G/HA	POST	0	0	15	0	2	80
NIS	0.5	PT/A							
<b>BIGBOY</b>									
HARMONY GT+	5.5	G/HA	POST	43	12	62	17	52	50
NIS	0.5	PT/A							
LSD (P=.05)				3	4	8	4	7	0.7
Standard Deviation				2	2	5	2	4	0.4
CV				124	215	65	84	121	9.4



# The Ohio State University

## TOMATOES - SANDEA ON PROCESSING TOMATO VARIETIES

Trial ID: TOMSANDEAVARW2004 Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

### TRIAL LOCATION

City: Wooster

Trial Status: Final

State/Prov: Ohio

Trial Reliability: Reliable

Postal Code: 44691

Initiation Date: 06/02/04

Planned Completion Date: 12/01/04

Objective: To evaluate rates of Sandea on seven varieties of processing tomatoes for possible injury or crop reduction.

Crop 1: LYPES PROCESSING TOMATOES Variety: 7 VARIETIES

Planting Date: 06/03/04

Planting Method: CONVENTIONAL

Rate: 12 IN

Depth: 2 IN

Row Spacing: 5 FT

Seed Bed: CONVENTIONAL

Soil Moisture: MOIST

### SITE AND DESIGN

Plot Width, Unit: 10 FT

Plot Length, Unit: 35 FT

Site Type: LEVEL FIELD

Reps: 4

Tillage Type: CONVENTIONAL

Study Design: SPLIT-PLOT

### SOIL DESCRIPTION

% Sand: 10.7

% OM: 3

Texture: SILT LOAM

% Silt: 72.8

pH: 6.0

Soil Name: WOOSTER SILT LOAM

% Clay: 13.6

CEC: 13

Fert. Level: MODERATE

### APPLICATION DESCRIPTION

A

Application Date: 7/12/2004

Time of Day: 11-12 AM

Application Method: SPRAY

Application Timing: POST

Applic. Placement: BROADCAST

Air Temp., Unit: 80 F

% Relative Humidity: 85

Wind Velocity, Unit: 0 MPH

% Cloud Cover: 0

### CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage: LYPES POST

Stage Scale: VEGETATIV

Height, Unit: 12 IN

# The Ohio State University

## TOMATOES - SANDEA ON PROCESSING TOMATO VARIETIES

### APPLICATION EQUIPMENT

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

### Trial Comments

This trial targeted tomato injury, not weed control. We experienced damage from woodchuck feeding, resulting in subsequent plant loss indicated by missing data. Yield data is based on one plant in plot center. We separated the fruit into marketable reds and greens. We also took a 50 fruit subsample of the red marketable tomato category. The tomatoes were weighed in pounds.

The seven varieties used were: 1) 8245; Ohio breeding line  
2) 7983; Ohio breeding line  
3) PS696; Peto Seed = Seminal Hypeel 696 (Hybrid)  
4) M82; inbred  
5) 9423; Heinz inbred  
6) E6203; Harris Moran inbred  
7) H722; Heinz inbred

"MKTB RED" = Marketable red weight

# The Ohio State University

## TOMATOES - SANDEA ON PROCESSING TOMATO VARIETIES

Trial ID: TOMSANDEAVARW2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated	PLANT	PLANT	LEAF	LEAF	PLANT	PLANT	LEAF
Rating Data Type	CHLOROSIS	STUNT	CURL	BURN	CHLOROSIS	STUNT	CURL
Rating Unit	%	%	%	%	%	%	%
Rating Date	7/13/04	7/13/04	7/13/04	7/13/04	7/20/04	7/20/04	7/20/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6	7
<b>8245</b>										
CONTROL				0	0	0	0	0	0	0
<b>7983</b>										
CONTROL				0	0	0	0	0	0	0
<b>PS696</b>										
CONTROL				0	0	0	0	0	0	0
<b>M82</b>										
CONTROL				0	0	0	0	0	0	0
<b>9423</b>										
CONTROL				0	0	0	0	0	0	0
<b>E6203</b>										
CONTROL				0	0	0	0	0	0	0
<b>H722</b>										
CONTROL				0	0	0	0	0	0	0
<b>8245</b>										
SANDEA + NIS	0.5 0.5	OZ/A PT/A	POST	5	0	0	3	0	0	0
<b>7983</b>										
SANDEA + NIS	0.5 0.5	OZ/A PT/A	POST	25	5	3	0	4	3	3
<b>PS696</b>										
SANDEA + NIS	0.5 0.5	OZ/A PT/A	POST	5	1	0	0	0	0	0
<b>M82</b>										
SANDEA + NIS	0.5 0.5	OZ/A PT/A	POST	5	0	0	0	3	0	0

# The Ohio State University

## TOMATOES - SANDEA ON PROCESSING TOMATO VARIETIES

Trial ID: TOMSANDEAVARW2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
PLANT	PLANT	LEAF	LEAF	PLANT	PLANT	LEAF
CHLOROSIS	STUNT	CURL	BURN	CHLOROSIS	STUNT	CURL
%	%	%	%	%	%	%
7/13/04	7/13/04	7/13/04	7/13/04	7/20/04	7/20/04	7/20/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6	7
<b>9423</b>										
SANDEA +	0.5	OZ/A	POST	10	0	1	0	1	0	0
NIS	0.5	PT/A								
<b>E6203</b>										
SANDEA +	0.5	OZ/A	POST	31	10	61	0	4	0	9
NIS	0.5	PT/A								
<b>H722</b>										
SANDEA +	0.5	OZ/A	POST	5	3	0	0	0	0	0
NIS	0.5	PT/A								
<b>8245</b>										
SANDEA +	0.66	OZ/A	POST	4	0	1	1	0	0	0
NIS	0.5	PT/A								
<b>7983</b>										
SANDEA +	0.66	OZ/A	POST	34	8	4	0	1	0	0
NIS	0.5	PT/A								
<b>PS696</b>										
SANDEA +	0.66	OZ/A	POST	3	0	0	0	0	0	0
NIS	0.5	PT/A								
<b>M82</b>										
SANDEA +	0.66	OZ/A	POST	8	1	0	0	0	0	0
NIS	0.5	PT/A								
<b>9423</b>										
SANDEA +	0.66	OZ/A	POST	6	0	3	0	1	0	1
NIS	0.5	PT/A								
<b>E6203</b>										
SANDEA +	0.66	OZ/A	POST	43	4	38	0	4	0	4
NIS	0.5	PT/A								

# The Ohio State University

## TOMATOES - SANDEA ON PROCESSING TOMATO VARIETIES

Trial ID: TOMSANDEAVARW2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
	PLANT	PLANT	LEAF	LEAF	PLANT	PLANT	LEAF
	CHLOROSIS	STUNT	CURL	BURN	CHLOROSIS	STUNT	CURL
	%	%	%	%	%	%	%
	7/13/04	7/13/04	7/13/04	7/13/04	7/20/04	7/20/04	7/20/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6	7
<b>H722</b>										
SANDEA +	0.66	OZ/A	POST	5	0	1	0	1	0	0
NIS	0.5	PT/A								
<b>8245</b>										
SANDEA +	1.33	OZ/A	POST	3	0	0	1	0	0	0
NIS	0.5	PT/A								
<b>7983</b>										
SANDEA +	1.33	OZ/A	POST	41	19	25	0	4	0	1
NIS	0.5	PT/A								
<b>PS696</b>										
SANDEA +	1.33	OZ/A	POST	6	1	0	0	0	0	0
NIS	0.5	PT/A								
<b>M82</b>										
SANDEA +	1.33	OZ/A	POST	6	0	0	0	0	0	0
NIS	0.5	PT/A								
<b>9423</b>										
SANDEA +	1.33	OZ/A	POST	9	0	3	0	0	0	0
NIS	0.5	PT/A								
<b>E6203</b>										
SANDEA +	1.33	OZ/A	POST	41	16	50	0	6	3	8
NIS	0.5	PT/A								
<b>H722</b>										
SANDEA	1.33	OZ/A	POST	5	0	0	0	1	0	0
NIS	0.5	PT/A								
LSD (P=.05)				5	4	9	1	4	2	3
Standard Deviation				4	3	6	1	3	1	2
CV				33	111	93	492	256	753	255

# The Ohio State University

## TOMATOES - SANDEA ON PROCESSING TOMATO VARIETIES

Trial ID: TOMSANDEAVARW2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated	LEAF	PLANT	PLANT	LEAF	LEAF	PLANT
Rating Data Type	BURN	CHLOROSIS	STUNT	CURL	BURN	CHLOROSIS
Rating Unit	%	%	%	%	%	%
Rating Date	7/20/04	7/30/04	7/30/04	7/30/04	7/30/04	8/20/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	8	9	10	11	12	13
<b>8245</b>									
CONTROL				0	0	0	0	0	0
<b>7983</b>									
CONTROL				0	0	0	0	0	0
<b>PS696</b>									
CONTROL				0	0	0	0	0	0
<b>M82</b>									
CONTROL				0	0	0	0	0	0
<b>9423</b>									
CONTROL				0	0	0	0	0	0
<b>E6203</b>									
CONTROL				0	0	0	0	0	0
<b>H722</b>									
CONTROL				0	0	0	0	0	0
<b>8245</b>									
SANDEA + NIS	0.5	OZ/A	POST	0	0	0	0	0	0
	0.5	PT/A							
<b>7983</b>									
SANDEA + NIS	0.5	OZ/A	POST	3	3	3	3	3	0
	0.5	PT/A							
<b>PS696</b>									
SANDEA + NIS	0.5	OZ/A	POST	0	0	0	0	0	0
	0.5	PT/A							
<b>M82</b>									
SANDEA + NIS	0.5	OZ/A	POST	0	1	0	0	0	0
	0.5	PT/A							

# The Ohio State University

## TOMATOES - SANDEA ON PROCESSING TOMATO VARIETIES

Trial ID: TOMSANDEAVARW2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
LEAF	PLANT	PLANT	LEAF	LEAF	PLANT
BURN	CHLOROSIS	STUNT	CURL	BURN	CHLOROSIS
%	%	%	%	%	%
7/20/04	7/30/04	7/30/04	7/30/04	7/30/04	8/20/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	8	9	10	11	12	13
<b>9423</b>									
SANDEA +	0.5	OZ/A	POST	0	1	1	1	3	1
NIS	0.5	PT/A							
<b>E6203</b>									
SANDEA +	0.5	OZ/A	POST	0	1	0	5	0	0
NIS	0.5	PT/A							
<b>H722</b>									
SANDEA +	0.5	OZ/A	POST	0	0	0	0	0	0
NIS	0.5	PT/A							
<b>8245</b>									
SANDEA +	0.66	OZ/A	POST	0	0	0	0	0	0
NIS	0.5	PT/A							
<b>7983</b>									
SANDEA +	0.66	OZ/A	POST	0	0	0	0	0	0
NIS	0.5	PT/A							
<b>PS696</b>									
SANDEA +	0.66	OZ/A	POST	0	0	0	0	0	0
NIS	0.5	PT/A							
<b>M82</b>									
SANDEA +	0.66	OZ/A	POST	0	0	0	0	0	0
NIS	0.5	PT/A							
<b>9423</b>									
SANDEA +	0.66	OZ/A	POST	0	0	0	1	0	1
NIS	0.5	PT/A							
<b>E6203</b>									
SANDEA +	0.66	OZ/A	POST	0	4	0	4	1	3
NIS	0.5	PT/A							

# The Ohio State University

## TOMATOES - SANDEA ON PROCESSING TOMATO VARIETIES

Trial ID: TOMSANDEAVARW2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
LEAF	PLANT	PLANT	LEAF	LEAF	PLANT
BURN	CHLOROSIS	STUNT	CURL	BURN	CHLOROSIS
%	%	%	%	%	%
7/20/04	7/30/04	7/30/04	7/30/04	7/30/04	8/20/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	8	9	10	11	12	13
<b>H722</b>									
SANDEA +	0.66	OZ/A	POST	0	0	0	0	0	1
NIS	0.5	PT/A							
<b>8245</b>									
SANDEA +	1.33	OZ/A	POST	0	0	0	0	0	0
NIS	0.5	PT/A							
<b>7983</b>									
SANDEA +	1.33	OZ/A	POST	1	3	0	1	1	1
NIS	0.5	PT/A							
<b>PS696</b>									
SANDEA +	1.33	OZ/A	POST	0	0	0	1	0	0
NIS	0.5	PT/A							
<b>M82</b>									
SANDEA +	1.33	OZ/A	POST	0	0	1	0	0	0
NIS	0.5	PT/A							
<b>9423</b>									
SANDEA +	1.33	OZ/A	POST	0	0	0	1	1	1
NIS	0.5	PT/A							
<b>E6203</b>									
SANDEA +	1.33	OZ/A	POST	0	4	1	8	0	1
NIS	0.5	PT/A							
<b>H722</b>									
SANDEA	1.33	OZ/A	POST	0	3	0	1	1	3
NIS	0.5	PT/A							
LSD (P=.05)				2	2	1	2	2	2
Standard Deviation				1	2	1	2	1	1
CV				793	244	437	179	345	308



# The Ohio State University

## TOMATOES - SANDEA ON PROCESSING TOMATO VARIETIES

Trial ID: TOMSANDEAVARW2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated	PLANT	LEAF	LEAF	YIELD	YIELD	YIELD	YIELD
Rating Data Type	STUNT	CURL	BURN	PLANTS	50 FRUIT	MKTB RED	GREEN
Rating Unit	%	%	%	PER PLOT	LBS	LBS	LBS
Rating Date	8/20/04	8/20/04	8/20/04	9/15/04	9/15/04	9/15/04	9/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	14	15	16	17	18	19	20
<b>8245</b>										
CONTROL				0	0	0	1	8.1	6.3	1.5
<b>7983</b>										
CONTROL				0	0	0	1	7.4	6.3	0.5
<b>PS696</b>										
CONTROL				0	0	0	1	7.7	10.5	1.7
<b>M82</b>										
CONTROL				0	0	0	1	5.5	13.6	1.6
<b>9423</b>										
CONTROL				0	0	0	1	7.3	8.3	0.5
<b>E6203</b>										
CONTROL				0	0	0	0	0	0	0
<b>H722</b>										
CONTROL				0	0	0	1	5.5	4.4	1.7
<b>8245</b>										
SANDEA + NIS	0.5 0.5	OZ/A PT/A	POST	0	0	0	1	6	7	0.8
<b>7983</b>										
SANDEA + NIS	0.5 0.5	OZ/A PT/A	POST	3	1	1	1	4.9	5.7	0.6
<b>PS696</b>										
SANDEA + NIS	0.5 0.5	OZ/A PT/A	POST	0	0	1	1	8	11	1.9
<b>M82</b>										
SANDEA + NIS	0.5 0.5	OZ/A PT/A	POST	0	0	0	1	7.7	8	1.1

# The Ohio State University

## TOMATOES - SANDEA ON PROCESSING TOMATO VARIETIES

Trial ID: TOMSANDEAVARW2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code

Part Rated

Rating Data Type

Rating Unit

Rating Date

LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
PLANT	LEAF	LEAF	YIELD	YIELD	YIELD	YIELD
STUNT	CURL	BURN	PLANTS	50 FRUIT	MKTB RED	GREEN
%	%	%	PER PLOT	LBS	LBS	LBS
8/20/04	8/20/04	8/20/04	9/15/04	9/15/04	9/15/04	9/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	14	15	16	17	18	19	20
<b>9423</b>										
SANDEA +	0.5	OZ/A	POST	3	1	3	1	7.6	10.1	1
NIS	0.5	PT/A								
<b>E6203</b>										
SANDEA +	0.5	OZ/A	POST	0	3	0	1	7	11.5	2.2
NIS	0.5	PT/A								
<b>H722</b>										
SANDEA +	0.5	OZ/A	POST	0	0	0	1	4.5	3.3	2
NIS	0.5	PT/A								
<b>8245</b>										
SANDEA +	0.66	OZ/A	POST	0	1	0	1	5.7	9	1.4
NIS	0.5	PT/A								
<b>7983</b>										
SANDEA +	0.66	OZ/A	POST	0	1	4	1	7.1	7.9	0.7
NIS	0.5	PT/A								
<b>PS696</b>										
SANDEA +	0.66	OZ/A	POST	0	1	0	1	7.4	11.3	2.4
NIS	0.5	PT/A								
<b>M82</b>										
SANDEA +	0.66	OZ/A	POST	0	0	0	1	7.5	9.2	0.8
NIS	0.5	PT/A								
<b>9423</b>										
SANDEA +	0.66	OZ/A	POST	0	4	0	1	7.6	9.8	0.8
NIS	0.5	PT/A								
<b>E6203</b>										
SANDEA +	0.66	OZ/A	POST	0	4	1	1	7.1	12.4	0.7
NIS	0.5	PT/A								

# The Ohio State University

## TOMATOES - SANDEA ON PROCESSING TOMATO VARIETIES

Trial ID: TOMSANDEAVARW2004

Study Dir: Douglas Doohan and T. Koch

Location: Wooster, Ohio

Investigator: Douglas Doohan

Weed Code

Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated	PLANT	LEAF	LEAF	YIELD	YIELD	YIELD	YIELD
Rating Data Type	STUNT	CURL	BURN	PLANTS	50 FRUIT	MKTB RED	GREEN
Rating Unit	%	%	%	PER PLOT	LBS	LBS	LBS
Rating Date	8/20/04	8/20/04	8/20/04	9/15/04	9/15/04	9/15/04	9/15/04

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	14	15	16	17	18	19	20
<b>H722</b>										
SANDEA +	0.66	OZ/A	POST	0	0	3	1	6.1	9.4	2.8
NIS	0.5	PT/A								
<b>8245</b>										
SANDEA +	1.33	OZ/A	POST	0	1	0	1	7.9	11	2.4
NIS	0.5	PT/A								
<b>7983</b>										
SANDEA +	1.33	OZ/A	POST	0	1	1	1	6.5	6.9	2.2
NIS	0.5	PT/A								
<b>PS696</b>										
SANDEA +	1.33	OZ/A	POST	0	4	0	1	7.8	11.2	1
NIS	0.5	PT/A								
<b>M82</b>										
SANDEA +	1.33	OZ/A	POST	3	0	0	1	7.3	10.3	0.9
NIS	0.5	PT/A								
<b>9423</b>										
SANDEA +	1.33	OZ/A	POST	0	8	1	1	7.1	7.5	1.5
NIS	0.5	PT/A								
<b>E6203</b>										
SANDEA +	1.33	OZ/A	POST	0	10	1	1	8.2	6.7	0.3
NIS	0.5	PT/A								
<b>H722</b>										
SANDEA	1.33	OZ/A	POST	0	3	3	1	6.2	8.5	2.6
NIS	0.5	PT/A								
LSD (P=.05)				2	4	2	1	3.3	9.1	3.2
Standard Deviation				2	3	2	1	2.3	6.4	2.3
CV				608	181	234	34	34.8	41.0	89.8