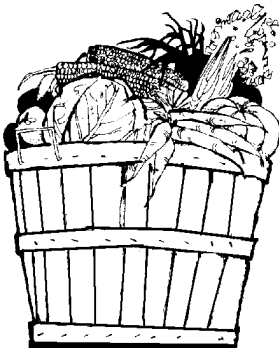


# Weed Management in Horticultural Crops

## 2001 Results



**Douglas J. Doohan  
Timothy Koch  
Joel Felix**



**The Ohio State University  
Ohio Agricultural Research and Development Center  
Ohio State University Extension**

This report contains the results of field plot research on vegetable weed management in Ohio for the summer 2001. 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 copy of commercial advertisement that will contain data from these results are subject to the author's approval before publication.

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**Ohio Fruit Growers Assoc.**

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**Stokes Seeds,Inc.**

**Syngenta Crop Protection,Inc.**

**United Agri-Products Co.**

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**Valent USA Corporation**

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

ALLCE = Dry bulb and green onion  
BRSOL = Cabbage  
CUUPE = Pumpkin  
CUMSA = Cucumber  
FRAAN = Strawberry  
GLXMA = Volunteer soybeans  
LACSA = Lettuce  
LYPES = Tomato  
MABSD = Apple  
SOLTU = Potato  
VITLA = American Grape  
ZEAMS = Sweet corn  
ZEAMX = Field corn

**A PARTIAL LIST OF RATING CODES USED IN THIS REPORT:**

CHLOROSIS = Yellow color  
CONTROL = Weed efficacy  
DEFOLIAT = Defoliation  
INJURY = Composite assessment of stunting, chlorosis, and other visible effects  
MAR BURN = Marginal burn  
STUNT = Reduction in height growth  
TWIST = Leaf and/or stem curl

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

BAYER CODE	COMMON NAME	BOTANICAL NAME
ABUTH	velvetleaf	<i>Abutilon theophrasti</i> Medicus
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 species	<i>Amaranth</i> spp.
AMBEL	common ragweed	<i>Ambrosia artemisiifolia</i> L.
CHEAL	common lambsquarters	<i>Chenopodium album</i> L.
CIRAR	Canada thistle	<i>Cirsium arvense</i> (L) Scop.
DIGSA	large crabgrass	<i>Digitaria sanguinalis</i> (L) Scop.
GASCI	hairy galinsoga	<i>Galinsoga ciliata</i> (RAF) Blake
GLYXMA	volunteer soybeans	<i>Glycine max</i>
MORAL	white mulberry	<i>Morus alba</i>
OXAST	yellow woodsorrel	<i>Oxalis stricta</i> L.
PANDI	fall panicum	<i>Panicum dichotomiflorum</i> Michx.
PHTAM	common pokeweed	<i>Phytolacca americana</i> L.
PLAMA	broadleaf plantain	<i>Plantago major</i> L.
POLPY	Pennsylvania smartweed	<i>Polygonum pensylvanicum</i> L.
POROL	common purslane	<i>Portulaca oleracea</i> L.
RHUGL	smooth sumac	<i>Rhus glabra</i> L.
SENVU	common groundsel	<i>Senecio vulgaris</i> L.
SETFA	giant foxtail	<i>Setaria faberi</i> Herrm.
SOLCA	horsenettle	<i>Solanum carolinense</i> L.
STEME	common chickweed	<i>Stellaria media</i> (L.) Vill.
TAROF	common dandelion	<i>Taraxacum officinale</i> weber in Wiggers

## CHEMICAL LIST

TRADE NAME	COMMON NAME	FORMULATION	MANUFACTURER
AIM	carfentrazone	40 DF	FMC
AUTHORITY	sulfentrazone	75 DF	DuPont
BASAGRAN	bentazon	4 SL	BASF
CALLISTO	mesotrione	4.0 SC	SYNGENTA
COMMAND	clomazone	3 ME	FMC
CURBIT	ethafluralin	3.0 EC	UAP
DISTINCT	55% dicamba + 21.4% diflufenzopyr	76.4 DF	BASF
DUAL	s-metolachlor	7.64 L	NOVARTIS
DUAL II MAGNUM	s-metolachlor + safener	7.62 EC	NOVARTIS
GOAL 2XL	oxyfluoren	2 SL	ROHM and HAAS
GUARDSMAN-MAX	24.8% dimethenamid + 28.4% atrazine	5.0 L	BASF
KARMEX	diuron	80 WP	GRIFFEN
KERB	pronamide	50 WP	ROHM&HAAS
MARKSMAN	13.42% dicamba + 22.23% atrazine	3.2 L	BASF
MATRIX	rimsulfuron	25 DF	DuPont
MILESTONE	azafenidin	80 DF	DuPont
OPTION 360	30% foramsulfuron, 30% isoxadifen-ethyl, and 1 or 2% iodosulfuron	61 WP	AGREVO
OUTLOOK	dimethenamid	6.0 L	BASF
PERMIT	halosulfuron	75 DF	MONSANTO
PRINCEP	simazine	4.0 l	NOVARTIS
PROWL	pendimethalin	3.3 EC	BASF
SANDEA	halosulfuron	75 DF	MONSANTO
SENCOR	metribuzin	75 DF	BAYER
SINBAR	terbacil	80 WP	DuPont
SOLICAM	norflurazon	80 DF	NOVARTIS
STRATEGY	18.2% ethafluralin + 5.6% clomazone	2.1 EC	PLATTE CHEM. CO.
VALOR	flumioxazin	50 DF	VALENT

## 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 soln.



**Daily Weather Summary for 4/1/2001 to 8/31/2001 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
4/1/01	.	.	.	5/1/01	0.02	50	84	6/1/01	0.19	50	67	7/1/01	0.55	57	76	8/1/01	0	60	94
4/2/01	.	.	.	5/2/01	0	55	83	6/2/01	0.22	50	66	7/2/01	0	49	70	8/2/01	0.49	68	92
4/3/01	0.06	27	49	5/3/01	0	53	86	6/3/01	0	49	58	7/3/01	0	53	72	8/3/01	1.08	70	82
4/4/01	0	23	56	5/4/01	0	57	84	6/4/01	0.01	40	64	7/4/01	0.06	61	78	8/4/01	0	70	72
4/5/01	0	25	68	5/5/01	0	54	70	6/5/01	0.02	42	71	7/5/01	0	53	77	8/5/01	0	63	86
4/6/01	1.35	55	69	5/6/01	0	50	78	6/6/01	0.58	56	62	7/6/01	0	45	77	8/6/01	0	63	88
4/7/01	0	58	78	5/7/01	0	61	69	6/7/01	0	54	72	7/7/01	0	54	77	8/7/01	0	65	89
4/8/01	0	59	80	5/8/01	0.3	52	71	6/8/01	0	54	74	7/8/01	0	68	88	8/8/01	0	76	95
4/9/01	0.02	47	77	5/9/01	0	49	76	6/9/01	0	45	79	7/9/01	0.04	58	90	8/9/01	0.42	70	90
4/10/01	0.31	44	62	5/10/01	0	52	81	6/10/01	0	53	81	7/10/01	0	63	91	8/10/01	0	65	82
4/11/01	0.21	51	74	5/11/01	0.17	63	82	6/11/01	0	66	86	7/11/01	0	61	78	8/11/01	0	58	86
4/12/01	0.03	54	76	5/12/01	0.43	45	63	6/12/01	0	66	87	7/12/01	0	53	78	8/12/01	0.21	65	79
4/13/01	0	43	61	5/13/01	0	33	62	6/13/01	0	63	87	7/13/01	0	49	78	8/13/01	0.01	59	82
4/14/01	0	36	66	5/14/01	0	38	72	6/14/01	0	65	89	7/14/01	0	50	82	8/14/01	0	51	76
4/15/01	0.06	39	48	5/15/01	0.52	54	62	6/15/01	0.22	69	89	7/15/01	0	52	87	8/15/01	0	48	49
4/16/01	0.03	32	46	5/16/01	0.55	55	70	6/16/01	0.02	62	80	7/16/01	0	59	88	8/16/01	0.14	65	82
4/17/01	0.04	28	41	5/17/01	0	63	75	6/17/01	0	60	80	7/17/01	0.06	60	85	8/17/01	0	62	81
4/18/01	0	29	49	5/18/01	0.21	60	68	6/18/01	0	57	85	7/18/01	0	67	87	8/18/01	0.54	60	78
4/19/01	0	28	59	5/19/01	0	53	73	6/19/01	0.18	70	93	7/19/01	0	63	90	8/19/01	0.02	61	73
4/20/01	0.46	47	56	5/20/01	0	46	78	6/20/01	0.18	66	79	7/20/01	0	64	90	8/20/01	0.01	60	72
4/21/01	0.01	55	73	5/21/01	0.12	63	76	6/21/01	0.65	64	76	7/21/01	0.56	67	67	8/21/01	0.01	53	80
4/22/01	0.01	62	75	5/22/01	0.1	50	63	6/22/01	0.21	58	70	7/22/01	0	68	89	8/22/01	0.36	57	74
4/23/01	0	62	78	5/23/01	0	45	61	6/23/01	0	53	74	7/23/01	0	71	92	8/23/01	0.09	62	74
4/24/01	0	40	66	5/24/01	0.12	48	61	6/24/01	0	51	80	7/24/01	0	74	94	8/24/01	0.01	63	80
4/25/01	0	35	65	5/25/01	0.02	48	64	6/25/01	0	52	82	7/25/01	0.16	69	84	8/25/01	0	58	85
4/26/01	0	30	67	5/26/01	0.3	49	63	6/26/01	0	57	86	7/26/01	0	60	78	8/26/01	0.26	69	80
4/27/01	0.01	42	67	5/27/01	0.03	51	60	6/27/01	0.02	62	86	7/27/01	0	53	81	8/27/01	0.01	59	81
4/28/01	0	29	60	5/28/01	0	51	66	6/28/01	0	60	88	7/28/01	0	55	84	8/28/01	0	58	81
4/29/01	0	27	69	5/29/01	0.24	51	69	6/29/01	0	64	89	7/29/01	0	68	87	8/29/01	0	51	82
4/30/01	0	36	80	5/30/01	0	44	62	6/30/01	0.54	66	84	7/30/01	0	66	88	8/30/01	0	55	85
				5/31/01	0	38	67					7/31/01	0	60	91	8/31/01	0.07	64	78

**Daily Weather Summary for 4/1/2001 to 8/31/2001 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
4/1/01	0.04	33	46	5/1/01	0.00	49	81	6/1/01	0.08	49	69	7/1/01	0.00	70	90	8/1/01	0.00	59	86
4/2/01	0.00	26	44	5/2/01	0.00	57	84	6/2/01	0.06	49	63	7/2/01	0.09	48	80	8/2/01	0.00	63	92
4/3/01	0.24	31	56	5/3/01	0.00	59	85	6/3/01	0.37	48	69	7/3/01	0.00	51	70	8/3/01	0.24	63	92
4/4/01	0.00	26	47	5/4/01	0.00	57	87	6/4/01	0.00	42	61	7/4/01	0.10	55	76	8/4/01	0.04	60	84
4/5/01	0.00	29	53	5/5/01	0.00	35	86	6/5/01	0.01	53	65	7/5/01	0.10	59	83	8/5/01	0.00	57	85
4/6/01	1.36	35	65	5/6/01	0.00	34	64	6/6/01	0.24	50	66	7/6/01	0.00	45	78	8/6/01	0.00	54	85
4/7/01	0.00	34	72	5/7/01	0.00	55	70	6/7/01	0.42	49	60	7/7/01	0.00	53	79	8/7/01	0.00	59	93
4/8/01	0.12	54	81	5/8/01	0.28	52	73	6/8/01	0.00	56	73	7/8/01	0.00	63	80	8/8/01	0.00	67	95
4/9/01	0.15	49	80	5/9/01	0.01	51	74	6/9/01	0.00	49	74	7/9/01	0.22	60	86	8/9/01	0.00	70	97
4/10/01	0.22	42	73	5/10/01	0.00	54	78	6/10/01	0.00	55	94	7/10/01	0.04	64	92	8/10/01	1.00	68	90
4/11/01	0.07	42	52	5/11/01	0.00	63	83	6/11/01	0.00	64	82	7/11/01	0.00	59	91	8/11/01	0.72	61	82
4/12/01	0.07	45	75	5/12/01	0.29	50	82	6/12/01	0.00	64	87	7/12/01	0.00	55	79	8/12/01	0.00	59	84
4/13/01	0.00	43	76	5/13/01	0.03	34	61	6/13/01	0.00	63	87	7/13/01	0.00	49	79	8/13/01	0.00	58	79
4/14/01	0.00	36	63	5/14/01	0.00	40	64	6/14/01	0.00	63	92	7/14/01	0.00	52	78	8/14/01	0.00	54	81
4/15/01	0.00	39	68	5/15/01	0.63	50	72	6/15/01	0.00	69	93	7/15/01	0.00	53	83	8/15/01	0.00	48	76
4/16/01	0.36	37	51	5/16/01	0.62	53	66	6/16/01	0.00	62	93	7/16/01	0.00	59	89	8/16/01	0.00	52	82
4/17/01	0.00	27	48	5/17/01	0.01	55	77	6/17/01	0.00	63	84	7/17/01	0.00	59	90	8/17/01	0.04	58	77
4/18/01	0.05	27	45	5/18/01	0.00	61	77	6/18/01	0.00	60	83	7/18/01	0.00	64	86	8/18/01	0.00	57	80
4/19/01	0.00	27	52	5/19/01	0.00	37	70	6/19/01	0.00	66	90	7/19/01	0.00	62	85	8/19/01	0.15	62	80
4/20/01	0.24	34	62	5/20/01	0.00	48	73	6/20/01	0.00	62	94	7/20/01	0.00	63	90	8/20/01	0.00	60	78
4/21/01	0.00	31	61	5/21/01	0.23	55	74	6/21/01	0.00	61	83	7/21/01	0.00	66	90	8/21/01	0.02	52	75
4/22/01	0.41	60	76	5/22/01	0.31	57	79	6/22/01	0.13	57	77	7/22/01	1.52	65	91	8/22/01	0.00	53	81
4/23/01	0.05	62	75	5/23/01	0.09	45	66	6/23/01	0.00	54	74	7/23/01	0.00	69	91	8/23/01	0.59	62	71
4/24/01	0.02	45	81	5/24/01	0.00	46	65	6/24/01	0.00	61	76	7/24/01	0.00	71	93	8/24/01	0.08	60	79
4/25/01	0.00	34	58	5/25/01	0.26	49	65	6/25/01	0.00	52	82	7/25/01	0.00	69	94	8/25/01	0.00	58	82
4/26/01	0.00	34	58	5/26/01	0.26	48	66	6/26/01	0.00	58	82	7/26/01	1.05	64	84	8/26/01	0.00	60	86
4/27/01	0.00	42	68	5/27/01	0.63	48	64	6/27/01	0.00	61	87	7/27/01	0.00	55	78	8/27/01	0.00	60	82
4/28/01	0.00	35	66	5/28/01	0.02	48	60	6/28/01	0.09	64	87	7/28/01	0.00	54	75	8/28/01	0.00	64	85
4/29/01	0.00	31	58	5/29/01	0.00	50	69	6/29/01	0.00	64	89	7/29/01	0.00	60	85	8/29/01	0.00	51	80
4/30/01	0.00	36	66	5/30/01	0.02	45	70	6/30/01	0.00	67	89	7/30/01	0.28	60	86	8/30/01	0.00	52	80
				5/31/01	0.00	43	66					7/31/01	0.00	61	87	8/31/01	0.00	52	87

**Daily Weather Summary for 4/1/2000 to 8/31/2000 at OARDC - Grape Research Branch, Kingsville, OH.  
Ashtabula County, 1 mile west of Kingsville; Latitude: 41° 53' N; Longitude: 80° 04' W; Elevation: 789 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
4/1/00	0	29	64	5/1/00	0.69	45	69	6/1/00	0	61	83	7/1/00	0	56	79	8/1/00	0.31	68	83
4/2/00	0.31	46	57	5/2/00	0	38	58	6/2/00	0.07	54	82	7/2/00	0	60	86	8/2/00	2.16	65	84
4/3/00	1.04	46	66	5/3/00	0	36	64	6/3/00	0	44	61	7/3/00	1.44	66	77	8/3/00	0.01	62	69
4/4/00	0.54	31	51	5/4/00	0.07	46	78	6/4/00	0	42	66	7/4/00	0.01	58	74	8/4/00	0	55	70
4/5/00	0.01	31	47	5/5/00	0	61	78	6/5/00	0.86	52	58	7/5/00	0	57	75	8/5/00	0	52	75
4/6/00	0	35	57	5/6/00	0	62	81	6/6/00	0.67	46	62	7/6/00	0.02	54	74	8/6/00	1.1	58	79
4/7/00	1.17	29	51	5/7/00	0.03	64	84	6/7/00	0.01	44	73	7/7/00	0	50	70	8/7/00	0	68	80
4/8/00	0.99	31	48	5/8/00	0.02	64	86	6/8/00	0.01	60	81	7/8/00	0	47	74	8/8/00	0	65	85
4/9/00	0.1	33	40	5/9/00	0	62	86	6/9/00	0	65	88	7/9/00	1.87	57	84	8/9/00	0.36	64	86
4/10/00	0	33	38	5/10/00	0.54	47	68	6/10/00	0.01	64	89	7/10/00	0	63	79	8/10/00	0	61	76
4/11/00	0.05	31	40	5/11/00	0	47	72	6/11/00	0.07	70	86	7/11/00	0	56	76	8/11/00	0	58	74
4/12/00	0	27	43	5/12/00	0	63	83	6/12/00	0.53	57	71	7/12/00	0	53	77	8/12/00	0	54	74
4/13/00	0	25	54	5/13/00	0.08	50	77	6/13/00	0.15	61	82	7/13/00	0	57	78	8/13/00	0	55	75
4/14/00	0	42	74	5/14/00	0	48	58	6/14/00	0.58	66	92	7/14/00	0.39	59	74	8/14/00	0	56	79
4/15/00	0	52	72	5/15/00	0	37	61	6/15/00	0.14	63	82	7/15/00	0.01	60	74	8/15/00	0	64	87
4/16/00	0	42	58	5/16/00	0	39	69	6/16/00	0.09	64	86	7/16/00	0.31	61	72	8/16/00	0	61	77
4/17/00	0	39	46	5/17/00	0.28	52	79	6/17/00	0.11	59	74	7/17/00	0	60	83	8/17/00	0.06	50	65
4/18/00	0	40	52	5/18/00	1.88	51	76	6/18/00	0.31	50	63	7/18/00	0	54	73	8/18/00	0	57	71
4/19/00	0	44	62	5/19/00	0.4	45	52	6/19/00	0	48	72	7/19/00	0	53	68	8/19/00	0	55	70
4/20/00	2.06	48	63	5/20/00	0.03	47	50	6/20/00	0	55	84	7/20/00	0	51	75	8/20/00	0	47	68
4/21/00	0.12	44	57	5/21/00	0.01	43	59	6/21/00	0.32	68	80	7/21/00	0.43	60	72	8/21/00	0	44	73
4/22/00	0.02	42	45	5/22/00	0	42	67	6/22/00	0	61	80	7/22/00	0	54	70	8/22/00	0	54	80
4/23/00	0	40	57	5/23/00	0.04	57	70	6/23/00	0	55	77	7/23/00	0	51	71	8/23/00	1.14	62	77
4/24/00	0	37	59	5/24/00	0.19	55	77	6/24/00	0.16	63	90	7/24/00	0	50	73	8/24/00	0.01	55	76
4/25/00	0	35	53	5/25/00	0	48	66	6/25/00	0.19	65	78	7/25/00	0	57	80	8/25/00	0	53	76
4/26/00	0	30	53	5/26/00	0	42	68	6/26/00	0.3	61	87	7/26/00	0	62	86	8/26/00	0	56	79
4/27/00	0	31	53	5/27/00	0	48	65	6/27/00	0.01	58	76	7/27/00	0	62	87	8/27/00	0.03	61	73
4/28/00	0	31	61	5/28/00	0	49	60	6/28/00	0	57	76	7/28/00	0	64	86	8/28/00	0.01	59	82
4/29/00	0	35	65	5/29/00	0	48	68	6/29/00	0.22	55	71	7/29/00	0	61	81	8/29/00	0	64	85
4/30/00	0	38	59	5/30/00	0	50	74	6/30/00	0	53	75	7/30/00	0.26	68	86	8/30/00	0	66	84
				5/31/00	0	58	87					7/31/00	0	69	86	8/31/00	0	65	89

**Daily Weather Summary for 4/1/2001 to 8/31/2001 at OARDC - Grape Research Branch, Kingsville, OH.  
Ashtabula County, 1 mile west of Kingsville; Latitude: 41° 53' N; Longitude: 80° 04' W; Elevation: 789 ft.**

Horticulture and Crop Science, Series No. 719

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The Ohio State University

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
4/1/01	0.02	27	44	5/1/01	0	48	83	6/1/01	0.51	51	72	7/1/01	0.14	54	75	8/1/01	0	60	88
4/2/01	0.01	33	48	5/2/01	0	57	78	6/2/01	0.15	52	63	7/2/01	0	49	71	8/2/01	0	71	89
4/3/01	0.05	32	46	5/3/01	0	59	80	6/3/01	0.43	49	57	7/3/01	0.03	48	77	8/3/01	2.05	68	80
4/4/01	0	25	52	5/4/01	0	57	81	6/4/01	0	45	62	7/4/01	0	62	80	8/4/01	0.01	62	80
4/5/01	0	27	58	5/5/01	0	49	61	6/5/01	0	42	61	7/5/01	0	52	74	8/5/01	0	63	84
4/6/01	0.52	46	67	5/6/01	0	47	69	6/6/01	0.01	54	63	7/6/01	0	51	75	8/6/01	0	61	85
4/7/01	0.06	46	80	5/7/01	0	54	77	6/7/01	0	52	70	7/7/01	0.05	57	73	8/7/01	0.27	70	88
4/8/01	0	56	80	5/8/01	0.3	53	66	6/8/01	0	50	73	7/8/01	0	58	79	8/8/01	0	71	90
4/9/01	0.43	40	72	5/9/01	0	50	74	6/9/01	0	46	75	7/9/01	0	57	85	8/9/01	0	74	90
4/10/01	0.01	40	57	5/10/01	0	55	79	6/10/01	0.16	56	78	7/10/01	0.05	63	83	8/10/01	0	59	78
4/11/01	0.02	41	69	5/11/01	0.24	57	80	6/11/01	0.22	59	75	7/11/01	0	56	72	8/11/01	0	55	77
4/12/01	0	53	84	5/12/01	1.17	44	57	6/12/01	0	59	82	7/12/01	0	53	71	8/12/01	0.07	58	76
4/13/01	0	39	55	5/13/01	0	34	57	6/13/01	0	59	84	7/13/01	0	49	73	8/13/01	0	59	79
4/14/01	0	34	60	5/14/01	0.07	41	64	6/14/01	0	64	93	7/14/01	0	52	75	8/14/01	0	54	75
4/15/01	0.45	40	49	5/15/01	0	44	68	6/15/01	0	72	90	7/15/01	0	52	82	8/15/01	0	53	81
4/16/01	0.42	33	54	5/16/01	0	46	73	6/16/01	0.73	61	75	7/16/01	0	64	85	8/16/01	0.08	61	80
4/17/01	0.04	32	41	5/17/01	0.01	55	75	6/17/01	0	57	74	7/17/01	0	66	82	8/17/01	0	63	78
4/18/01	0	29	43	5/18/01	0	52	77	6/18/01	0	56	85	7/18/01	0	65	84	8/18/01	0	62	76
4/19/01	0	25	51	5/19/01	0	44	71	6/19/01	0	66	92	7/19/01	0	68	87	8/19/01	0.29	63	78
4/20/01	0.41	42	53	5/20/01	0	47	73	6/20/01	0.1	63	76	7/20/01	0	68	90	8/20/01	0.31	59	72
4/21/01	0.22	51	70	5/21/01	0.32	60	71	6/21/01	0.78	62	79	7/21/01	0	66	90	8/21/01	0.01	57	76
4/22/01	0.16	56	71	5/22/01	0.82	49	64	6/22/01	0.34	58	66	7/22/01	0	69	87	8/22/01	0.09	57	80
4/23/01	0	62	83	5/23/01	0.04	46	70	6/23/01	0	54	71	7/23/01	2.43	71	91	8/23/01	0.37	65	74
4/24/01	0.1	38	72	5/24/01	0.41	49	74	6/24/01	0	53	73	7/24/01	0	71	90	8/24/01	0.01	62	77
4/25/01	0	30	51	5/25/01	0.25	49	63	6/25/01	0	52	77	7/25/01	0.17	68	91	8/25/01	0	56	84
4/26/01	0	29	64	5/26/01	0	46	70	6/26/01	0	57	87	7/26/01	0	57	73	8/26/01	0.55	68	85
4/27/01	0.01	43	62	5/27/01	0.31	51	65	6/27/01	0	62	84	7/27/01	0	49	73	8/27/01	0	60	82
4/28/01	0	32	52	5/28/01	0.18	50	65	6/28/01	0	62	84	7/28/01	0	58	84	8/28/01	0.27	59	76
4/29/01	0	29	61	5/29/01	0.02	41	60	6/29/01	0	62	90	7/29/01	0	62	80	8/29/01	0	52	74
4/30/01	0	42	74	5/30/01	0	39	59	6/30/01	0	70	85	7/30/01	0	59	78	8/30/01	0	53	85
				5/31/01	0	37	61					7/31/01	0	60	82	8/31/01	0.14	63	76

**Daily Weather Summary for 4/1/2000 to 8/31/2000 at OARDC, WOOSTER.**  
**Wayne County, one mile south of Wooster; Latitude: 40° 47' N; Longitude: 81° 55' W; Elevation: 1020 ft.**

Horticulture and Crop Science, Series No. 719

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The Ohio State University

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
4/1/00	0.04	28	68	5/1/00	0.64	44	71	6/1/00	0.00	63	87	7/1/00	0.00	51	81	8/1/00	0.01	67	84
4/2/00	0.68	47	55	5/2/00	0.00	43	65	6/2/00	0.10	59	85	7/2/00	0.00	55	81	8/2/00	0.00	66	85
4/3/00	0.81	51	65	5/3/00	0.00	37	75	6/3/00	0.00	47	65	7/3/00	0.77	68	74	8/3/00	0.00	60	79
4/4/00	0.22	32	52	5/4/00	0.19	47	78	6/4/00	0.00	42	69	7/4/00	0.00	62	81	8/4/00	0.00	52	75
4/5/00	0.00	28	50	5/5/00	0.01	56	81	6/5/00	1.14	53	61	7/5/00	0.00	59	83	8/5/00	0.00	48	80
4/6/00	0.00	43	62	5/6/00	0.00	58	85	6/6/00	0.02	46	64	7/6/00	0.00	56	78	8/6/00	1.23	60	85
4/7/00	1.31	39	50	5/7/00	0.00	62	86	6/7/00	0.00	42	78	7/7/00	0.00	51	75	8/7/00	0.13	66	83
4/8/00	0.39	29	52	5/8/00	0.05	65	83	6/8/00	0.01	59	81	7/8/00	0.00	48	79	8/8/00	0.00	64	82
4/9/00	0.02	28	50	5/9/00	0.00	71	83	6/9/00	0.00	63	87	7/9/00	0.00	58	85	8/9/00	0.00	67	81
4/10/00	0.00	29	48	5/10/00	0.11	48	73	6/10/00	0.04	65	89	7/10/00	0.04	64	81	8/10/00	0.00	60	82
4/11/00	0.04	33	51	5/11/00	0.00	45	72	6/11/00	0.14	70	86	7/11/00	0.00	60	81	8/11/00	0.00	56	78
4/12/00	0.00	31	46	5/12/00	0.01	66	86	6/12/00	0.17	69	82	7/12/00	0.00	51	80	8/12/00	0.00	56	77
4/13/00	0.00	27	59	5/13/00	0.08	50	76	6/13/00	0.02	67	85	7/13/00	0.00	55	84	8/13/00	0.00	54	80
4/14/00	0.00	36	74	5/14/00	0.00	42	63	6/14/00	0.08	65	90	7/14/00	0.18	58	83	8/14/00	0.00	54	83
4/15/00	0.00	53	78	5/15/00	0.00	36	65	6/15/00	0.00	65	81	7/15/00	0.17	58	77	8/15/00	0.00	61	86
4/16/00	0.00	50	74	5/16/00	0.01	34	70	6/16/00	0.73	68	83	7/16/00	0.19	60	78	8/16/00	0.00	56	77
4/17/00	0.00	45	64	5/17/00	0.03	45	78	6/17/00	0.06	64	76	7/17/00	0.00	60	83	8/17/00	0.08	55	65
4/18/00	0.01	43	50	5/18/00	0.21	58	79	6/18/00	0.12	53	69	7/18/00	0.07	59	78	8/18/00	0.21	57	72
4/19/00	0.00	47	62	5/19/00	1.22	48	73	6/19/00	0.00	48	80	7/19/00	0.05	53	69	8/19/00	0.01	52	74
4/20/00	0.24	47	78	5/20/00	0.00	47	55	6/20/00	0.00	52	83	7/20/00	0.00	53	77	8/20/00	0.00	47	72
4/21/00	0.11	45	57	5/21/00	0.00	47	67	6/21/00	0.31	68	81	7/21/00	0.18	56	77	8/21/00	0.00	45	80
4/22/00	0.01	41	46	5/22/00	0.00	51	72	6/22/00	0.00	63	80	7/22/00	0.00	53	74	8/22/00	0.00	49	83
4/23/00	0.01	36	60	5/23/00	0.55	58	68	6/23/00	0.00	59	83	7/23/00	0.00	53	75	8/23/00	1.02	66	81
4/24/00	0.00	38	67	5/24/00	0.00	59	79	6/24/00	0.17	62	87	7/24/00	0.00	50	78	8/24/00	0.00	60	82
4/25/00	0.00	39	63	5/25/00	0.00	50	71	6/25/00	0.20	64	80	7/25/00	0.00	56	81	8/25/00	0.04	53	80
4/26/00	0.00	35	58	5/26/00	0.01	43	75	6/26/00	0.00	61	86	7/26/00	0.00	59	84	8/26/00	0.00	57	81
4/27/00	0.00	29	62	5/27/00	0.12	56	64	6/27/00	0.00	61	80	7/27/00	0.00	60	86	8/27/00	0.64	61	76
4/28/00	0.00	35	67	5/28/00	1.27	53	58	6/28/00	0.00	56	76	7/28/00	0.00	62	85	8/28/00	0.01	59	80
4/29/00	0.00	40	69	5/29/00	0.00	51	68	6/29/00	0.13	56	74	7/29/00	0.12	64	81	8/29/00	0.00	59	84
4/30/00	0.00	37	69	5/30/00	0.00	48	73	6/30/00	0.00	52	77	7/30/00	0.00	67	82	8/30/00	0.00	62	86
				5/31/00	0.00	58	86					7/31/00	0.07	68	83	8/31/00	0.00	65	86

**Daily Weather Summary for 4/1/2001 to 8/31/2001 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. (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
4/1/01	0.07	29	49	5/1/01	0.39	45	82	6/1/01	0.36	51	70	7/1/01	0.48	54	80	8/1/01	0	63	95
4/2/01	0	25	54	5/2/01	0	52	82	6/2/01	0.28	51	63	7/2/01	0	45	72	8/2/01	0.09	68	91
4/3/01	0	31	58	5/3/01	0	54	78	6/3/01	0.01	48	63	7/3/01	0	47	74	8/3/01	0.25	71	80
4/4/01	0	30	57	5/4/01	0	56	85	6/4/01	0.04	42	67	7/4/01	0.19	61	78	8/4/01	0	65	86
4/5/01	0	30	70	5/5/01	0	53	74	6/5/01	0	45	74	7/5/01	0	51	78	8/5/01	0	62	90
4/6/01	0.83	53	69	5/6/01	0	52	75	6/6/01	0.43	57	64	7/6/01	0	47	78	8/6/01	0	62	91
4/7/01	0	57	82	5/7/01	0	56	71	6/7/01	0	52	74	7/7/01	0.03	51	79	8/7/01	0	61	93
4/8/01	0.12	62	78	5/8/01	0.39	53	71	6/8/01	0	50	75	7/8/01	0.01	63	86	8/8/01	0	73	95
4/9/01	0.43	50	78	5/9/01	0	47	76	6/9/01	0	46	78	7/9/01	0	57	91	8/9/01	1.57	71	95
4/10/01	0.2	47	74	5/10/01	0	46	80	6/10/01	0	50	81	7/10/01	0	63	87	8/10/01	0	65	84
4/11/01	0.32	56	78	5/11/01	0.53	59	81	6/11/01	0	64	84	7/11/01	0	57	76	8/11/01	0	60	85
4/12/01	0.06	55	80	5/12/01	0.24	41	61	6/12/01	0	63	86	7/12/01	0	52	78	8/12/01	0.87	64	79
4/13/01	0	42	62	5/13/01	0	34	62	6/13/01	0	60	91	7/13/01	0	51	77	8/13/01	0	64	83
4/14/01	0	37	67	5/14/01	0	36	68	6/14/01	0	63	91	7/14/01	0	51	79	8/14/01	0	53	77
4/15/01	0.59	40	53	5/15/01	0.29	53	58	6/15/01	0.01	69	91	7/15/01	0	52	86	8/15/01	0	49	83
4/16/01	0.04	30	53	5/16/01	0.42	52	62	6/16/01	0.05	60	80	7/16/01	0	57	88	8/16/01	0.06	62	83
4/17/01	0.01	27	40	5/17/01	0	59	73	6/17/01	0	57	79	7/17/01	0.1	61	85	8/17/01	0	62	79
4/18/01	0	29	49	5/18/01	0.19	60	71	6/18/01	0	53	86	7/18/01	0	67	87	8/18/01	0.05	58	78
4/19/01	0	28	60	5/19/01	0	51	74	6/19/01	0	61	90	7/19/01	0.12	64	86	8/19/01	0.32	61	76
4/20/01	0.5	46	54	5/20/01	0	46	79	6/20/01	0.05	65	81	7/20/01	0	64	89	8/20/01	0.02	60	71
4/21/01	0	54	75	5/21/01	0.51	63	78	6/21/01	0.11	65	82	7/21/01	0	66	89	8/21/01	0	57	81
4/22/01	0.24	62	79	5/22/01	0.29	48	62	6/22/01	0.08	59	69	7/22/01	0	67	91	8/22/01	0.04	53	76
4/23/01	0	60	81	5/23/01	0.01	42	66	6/23/01	0	55	74	7/23/01	0	70	94	8/23/01	0.06	63	73
4/24/01	0.01	37	67	5/24/01	0.05	45	64	6/24/01	0	53	78	7/24/01	0	73	94	8/24/01	0	65	82
4/25/01	0	31	58	5/25/01	0.11	46	66	6/25/01	0	51	82	7/25/01	0	69	86	8/25/01	0	61	86
4/26/01	0	28	66	5/26/01	0.36	43	68	6/26/01	0	57	87	7/26/01	0.14	59	81	8/26/01	0.8	68	81
4/27/01	0.02	41	69	5/27/01	0.17	50	64	6/27/01	0	63	89	7/27/01	0	56	81	8/27/01	0	60	84
4/28/01	0	32	58	5/28/01	0	49	67	6/28/01	0	61	89	7/28/01	0	55	85	8/28/01	0	60	81
4/29/01	0	28	70	5/29/01	0.04	46	70	6/29/01	0	62	89	7/29/01	0	66	83	8/29/01	0	53	81
4/30/01	0	37	81	5/30/01	0	42	63	6/30/01	0.03	67	86	7/30/01	0	61	88	8/30/01	0.02	53	84
				5/31/01	0	37	68					7/31/01	0	63	91	8/31/01	0.98	62	74

# The Ohio State University

## HERBICIDE TEST ON CURCUBITS- CUCUMBERS AND PUMPKINS

Trial ID: CURCFRE 2001  
Location: FREMONT

Study Dir.: DR.DOUGLAS J.DOOHAN AND T.KOCH  
Investigator: DR. DOUGLAS J. DOOHAN

### GENERAL TRIAL INFORMATION

**Study Director:** DR. DOUGLAS J. DOOHAN AND T.KOCH      **Title:** ASST. PROFESSOR  
**Affiliation:** OARDC/ THE OHIO STATE UNIVERSITY  
**Postal Code:** 44691  
**Investigator:** DR. DOUGLAS J. DOOHAN      **Title:** ASST. PROFESSOR  
**Affiliation:** OARDC/ THE OHIO STATE UNIVERSITY  
**Postal Code:** 44691

### TRIAL LOCATION

**City:** FREMONT      **Trial Status:** COMPLETE  
**State/Prov.:** OHIO      **Trial Reliability:** RELIABLE  
**Postal Code:** 43420      **Initiation Date:** Jun-13-01  
**Country:** USA      **Planned Completion Date:** Sep-15-01  
**Directions:** CORNER OF CR 43 AND SR 53, SOUTH WEST OF FREMONT, OHIO (SANDUSKY COUNTY)

### COOPERATOR/LANDOWNER

**Cooperator:** MATT HOFELICH      **Country:** USA  
**Org:** OARDC VEG. CROPS RESEARCH BRANCH      **Phone No:** 419-332-5142  
**Address 1:** 1165 CR 43  
**City:** FREMONT  
**State/Prov:** OHIO  
**Postal Code:** 43420

**Conducted Under GLP (Y/N):** N

**Conducted Under GEP (Y/N):** N

**Objective:** EVALUATE 10 HERBICIDE TREATMENTS ON PUMPKINS & PICKLES

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	AMAXX	PIGWEEED SPECIES	AMARANTHUS SPP.
2.	CHEAL	COMMON LAMBSQUARTERS	CHENOPODIUM ALBUM L.
3.	SETFA	GIANT FOXTAIL	SETARIA FABERI HERRM.

**Crop 1:** CUUPE PUMPKIN

**Variety:** APPALACHIAN

**Planting Date:** Jun-11-01

**Planting Method:** CONVENTIONAL

**Rate:** 2 SEEDS/9"

**Depth:** 1.5 "

**Row Spacing:** 7.5 FT.

**Seed Bed:** CONVENTIONAL

**Soil Moisture:** DRY

**Crop 2:** CUMSA PICKLE

**Variety:** EUREKA

**Planting Date:** Jun-11-01

**Planting Method:** CONVENTIONAL

**Rate:** 2 SEEDS/9"

**Depth:** 1 "

**Row Spacing:** 30 "

**Seed Bed:** CONVENTIONAL

**Soil Moisture:** DRY

# The Ohio State University

## SITE AND DESIGN

Plot Width, Unit: 7.5 FT Plot Length, Unit: 15 FT Reps: 4

Site Type: WELL-DRAINED

Tillage Type: CONVENTIONAL Study Design: RANDOMIZED COMPLETE BLOCK

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.	Oct-25-00	FALL CHISEL PLOW					
2.	May-01-01	FERTIZER APPLIED :155#/A (45-0-0)					
3.	May-03-01	" :350#(0-0-60) & 150#/A(0-46-0)					
4.	May-08-01	WORKED FIELD W/CULTIV.& PACKER					
5.	Jun-05-01	BURNDN.W/ROUNDUP @1.5 PT./A					
6.	Jun-11-01	PLANTED CROPS					
7.	Jun-22-01	IRRIGATED WITH .75" WATER					
8.	Jul-02-01	HOED & WEEDED PLOTS					
9.	Jul-13-01	SPRAYED DIAZINON AG500 @ 1PT/A					
10.	Jul-19-01	" BRAVO@1.5PT & ASANA XL@ 9OZ./A					
11.	Jul-20-01	HOED&WEEDED PLOTS&START PICKLE HARV					
12.	Aug-13-01	FINISH PICKLE HARV. ( 8TH TIME)					
13.	Aug-15-01	SAME AS #10 + CHAMP2@1.5PT (PUMPKIN					
14.	Aug-22-01	SPRAYED SEVIN XLR @1QT. (PUMPKIN)					
15.	Aug-28-01	BRAVO 1.5PT;SEVIN XLR@1QT. (PUMPKIN)					
16.	Sep-07-01	SAME AS ABOVE					
17.	Sep-13-01	SPRAYED PUMPKINS W/12.3 OZ. QUADRIS					
18.	Oct-08-01	HARVESTED PUMPKINS					

## SOIL DESCRIPTION

% OM: 3 Texture: FINE SANDY LOAM  
 pH: 5.8 Soil Name: COLWOOD  
 CEC: 7.6 Fert. Level: MODERATE

## APPLICATION DESCRIPTION

	A
Application Date:	Jun-14-01
Time of Day:	11:30 AM
Application Method:	SPRAY
Application Timing:	PRE
Applic. Placement:	BDCST
Air Temp., Unit:	89 F
% Relative Humidity:	90
Wind Velocity, Unit:	2 MPH
Dew Presence (Y/N):	N
Soil Moisture:	DRY
% Cloud Cover:	40



# The Ohio State University

## CROP STAGE AT EACH APPLICATION

A	
Crop 1 Code, Stage:	CUUPE PREEM
Stage Scale:	.
Height, Unit:	0. .
Crop 2 Code, Stage:	CUMSA PREEM
Stage Scale:	.
Height, Unit:	0. .

## WEED STAGE AT EACH APPLICATION

A	
Weed 1 Code, Stage:	AMAXX PREEM
Stage Scale:	.
Density, Unit:	. .
Weed 2 Code, Stage:	CHEAL PREEM
Stage Scale:	.
Density, Unit:	. .
Weed 3 Code, Stage:	SETFA PREEM
Stage Scale:	.
Density, Unit:	. .

## APPLICATION EQUIPMENT

A	
Appl. Equipment:	BACKPACK
Operating Pressure:	30 PSI
Nozzle Type:	FFAN
Nozzle Size:	8002 VS
Nozzle Spacing, Unit:	18 IN
Nozzles/Row:	4
Band Width, Unit:	60 IN
Boom Height, Unit:	18 IN
Ground Speed, Unit:	3 MPH
Carrier:	WATER
Spray Volume, Unit:	20 GPA
Propellant:	CO2

# The Ohio State University

## HERBICIDE TEST ON CURCUBITS- CUCUMBERS AND PUMPKINS

Trial ID: CURCFRE 2001

Study Dir.: DR.DOUGLAS J.DOOHAN AND T.KOCH

Location: FREMONT

Investigator: DR. DOUGLAS J. DOOHAN

### Trial Comments

RAINFALL WAS LIGHT (BORDERING ON DROUGHT CONDITIONS); CHEMICALS MAY NOT HAVE BEEN FULLY ACTIVATED. CONTROL OF LAMBSQUARTER AND PIGWEED WAS BEST WITH SANDEA , AUTHORITY , AND PROWL.

#### ABBREVIATIONS USED IN PLOT DATA:

YLD.= YIELD

CULL= NON-MARKETABLE FRUIT

MKT.WT.= MARKETABLE WEIGHT

LBS.= POUNDS

TOT.CULL= TOTAL WEIGHT IN POUNDS OF CULL FRUIT

TOT.MKT.=TOTAL WEIGHT IN POUNDS OF MARKETABLE

FRUIT

# The Ohio State University

## HERBICIDE TEST ON CURCUBITS- CUCUMBERS AND PUMPKINS

Trial ID: CURCFRE 2001

Study Dir.: DR.DOUGLAS J.DOOHAN AND T.KOCH

Location: FREMONT

Investigator: DR. DOUGLAS J. DOOHAN

Weed Code				CUMSA	CUMSA	CHEAL	AMAXX	
Crop Code				INJURY	STUNT	CUMSA	CUMSA	
Rating Data Type				PERCENT	PERCENT	CONTROL	CONTROL	
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	
Rating Date				Jul-05-01	Jul-05-01	Jul-05-01	Jul-05-01	
# Subsamples, Dec.				0	0	0	0	
Trt No.	Treatment Name	Product Rate	Product Unit	Grow Stg	1	2	3	4
1	WEEDY CONTROL				0 b	0 c	0 d	0 c
2	WEED-FREE CONTROL				0 b	0 c	98 a	98 a
3	CURBIT	3.0	PT/A	PRE	0 b	0 c	84 c	91 b
4	PCC 170	3.0	PT/A	PRE	0 b	3 bc	84 c	96 ab
5	PCC 170	4.0	PT/A	PRE	3 b	4 bc	83 c	98 a
6	PCC 170	5.0	PT/A	PRE	1 b	4 bc	89 bc	92 ab
7	CURBIT+	3.0	PT/A	PRE	0 b	4 bc	91 ab	98 a
	COMMAND	0.67	PT/A	PRE				
8	PROWL	2.0	PT/A	PRE	9 a	10 a	88 bc	93 ab
9	CURBIT+	3.0	PT/A	PRE	3 b	6 ab	97 a	95 ab
	COMMAND+	0.67	PT/A	PRE				
	AUTHORITY	1.81	OZ/A	PRE				
10	CURBIT+	3.0	PT/A	PRE	1 b	4 bc	96 a	98 a
	COMMAND+	0.67	PT/A	PRE				
	SANDEA	0.43	OZ/A	PRE				
LSD (P=.05)					3.1	4.4	7.0	6.8
Standard Deviation					2.1	3.1	4.8	4.7
CV					132.08	90.5	5.96	5.42

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code				SETFA	CUUPE	CHEAL	AMAXX	
Crop Code				CUMSA	CUUPE	CUUPE	CUUPE	
Rating Data Type				CONTROL	STUNT	CONTROL	CONTROL	
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	
Rating Date				Jul-05-01	Jul-05-01	Jul-05-01	Jul-05-01	
# Subsamples, Dec.				0	0	0	0	
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	5	6	7	8
1	WEEDY CONTROL				0 d	0 a	0 f	0 d
2	WEED-FREE CONTROL				98 a	0 a	99 a	99 a
3	CURBIT	3.0	PT/A	PRE	83 c	3 a	88 cd	98 ab
4	PCC 170	3.0	PT/A	PRE	95 ab	4 a	85 de	86 c
5	PCC 170	4.0	PT/A	PRE	95 ab	23 a	78 e	89 c
6	PCC 170	5.0	PT/A	PRE	92 ab	19 a	91 a-d	91 bc
7	CURBIT+	3.0	PT/A	PRE	97 a	25 a	94 abc	97 ab
	COMMAND	0.67	PT/A	PRE				
8	PROWL	2.0	PT/A	PRE	89 bc	13 a	89 bcd	93 abc
9	CURBIT+	3.0	PT/A	PRE	92 ab	6 a	96 ab	99 a
	COMMAND+	0.67	PT/A	PRE				
	AUTHORITY	1.81	OZ/A	PRE				
10	CURBIT+	3.0	PT/A	PRE	92 ab	8 a	94 abc	97 ab
	COMMAND+	0.67	PT/A	PRE				
	SANDEA	0.43	OZ/A	PRE				
LSD (P=.05)					6.3	23.3	7.9	7.4
Standard Deviation					4.4	16.1	5.5	5.1
CV					5.24	162.87	6.74	6.0

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code				SETFA		CHEAL	AMAXX	
Crop Code				CUUPE	CUMSA	CUMSA	CUMSA	
Rating Data Type				CONTROL	INJURY	CONTROL	CONTROL	
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	
Rating Date				Jul-05-01	Jul-11-01	Jul-11-01	Jul-11-01	
# Subsamples, Dec.				0	0	0	0	
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	9	10	11	12
1	WEEDY CONTROL				0 e	0 a	0 f	0 f
2	WEED-FREE CONTROL				99 a	0 a	99 a	99 a
3	CURBIT	3.0	PT/A	PRE	89 cd	1 a	78 cde	99 a
4	PCC 170	3.0	PT/A	PRE	83 d	0 a	70 e	75 e
5	PCC 170	4.0	PT/A	PRE	93 abc	1 a	75 de	88 cd
6	PCC 170	5.0	PT/A	PRE	97 ab	1 a	83 cd	81 de
7	CURBIT+ COMMAND	3.0 0.67	PT/A PT/A	PRE PRE	92 bc	0 a	85 bc	90 bc
8	PROWL	2.0	PT/A	PRE	92 bc	0 a	75 de	89 bc
9	CURBIT+ COMMAND+ AUTHORITY	3.0 0.67 1.81	PT/A PT/A OZ/A	PRE PRE PRE	95 abc	3 a	91 b	91 bc
10	CURBIT+ COMMAND+ SANDEA	3.0 0.67 0.43	PT/A PT/A OZ/A	PRE PRE PRE	92 bc	1 a	92 ab	96 ab
LSD (P=.05)					6.5	3.3	7.8	7.4
Standard Deviation					4.5	2.3	5.4	5.1
CV					5.4	306.31	7.18	6.29

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code				SETFA		CHEAL	AMAXX	
Crop Code				CUMSA	CUUPE	CUUPE	CUUPE	
Rating Data Type				CONTROL	INJURY	CONTROL	CONTROL	
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	
Rating Date				Jul-11-01	Jul-11-01	Jul-11-01	Jul-11-01	
# Subsamples, Dec.				0	0	0	0	
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16
1	WEEDY CONTROL				0 d	0 a	0 e	0 d
2	WEED-FREE CONTROL				99 a	0 a	99 a	99 a
3	CURBIT	3.0	PT/A	PRE	84 bc	14 a	76 cd	85 bc
4	PCC 170	3.0	PT/A	PRE	80 c	6 a	74 d	83 bc
5	PCC 170	4.0	PT/A	PRE	90 b	21 a	71 d	74 c
6	PCC 170	5.0	PT/A	PRE	88 bc	18 a	79 cd	76 c
7	CURBIT+	3.0	PT/A	PRE	88 bc	16 a	85 bc	90 ab
	COMMAND	0.67	PT/A	PRE				
8	PROWL	2.0	PT/A	PRE	80 c	6 a	86 bc	94 ab
9	CURBIT+	3.0	PT/A	PRE	88 bc	5 a	91 ab	89 ab
	COMMAND+	0.67	PT/A	PRE				
	AUTHORITY	1.81	OZ/A	PRE				
10	CURBIT+	3.0	PT/A	PRE	90 b	34 a	90 ab	90 ab
	COMMAND+	0.67	PT/A	PRE				
	SANDEA	0.43	OZ/A	PRE				
LSD (P=.05)					8.4	26.2	10.1	11.8
Standard Deviation					5.8	18.0	7.0	8.2
CV					7.34	152.54	9.27	10.48

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code				SETFA	CUMSA	CHEAL	AMAXX	
Crop Code				CUUPE	CUMSA	CUMSA	CUMSA	
Rating Data Type				CONTROL	INJURY	CONTROL	CONTROL	
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	
Rating Date				Jul-11-01	Aug-01-01	Aug-01-01	Aug-01-01	
# Subsamples, Dec.				0	0	0	0	
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	17	18	19	20
1	WEEDY CONTROL				0 c	0 d	0 d	0 f
2	WEED-FREE CONTROL				99 a	0 d	99 a	99 a
3	CURBIT	3.0	PT/A	PRE	85 ab	0 d	87 bc	84 cde
4	PCC 170	3.0	PT/A	PRE	80 ab	0 d	96 ab	80 de
5	PCC 170	4.0	PT/A	PRE	95 a	1 cd	93 ab	90 abc
6	PCC 170	5.0	PT/A	PRE	87 ab	0 d	80 c	78 e
7	CURBIT+	3.0	PT/A	PRE	90 a	4 bc	88 bc	89 bcd
	COMMAND	0.67	PT/A	PRE				
8	PROWL	2.0	PT/A	PRE	66 b	0 d	86 bc	94 ab
9	CURBIT+	3.0	PT/A	PRE	90 a	5 ab	91 ab	90 abc
	COMMAND+	0.67	PT/A	PRE				
	AUTHORITY	1.81	OZ/A	PRE				
10	CURBIT+	3.0	PT/A	PRE	93 a	8 a	95 ab	99 a
	COMMAND+	0.67	PT/A	PRE				
	SANDEA	0.43	OZ/A	PRE				
LSD (P=.05)					22.0	2.8	9.8	9.7
Standard Deviation					15.1	1.9	6.8	6.7
CV					19.3	109.97	8.29	8.38

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					SETFA		CHEAL	AMAXX
Crop Code					CUMSA	CUUPE	CUUPE	CUUPE
Rating Data Type					CONTROL	INJURY	CONTROL	CONTROL
Rating Unit					PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					Aug-01-01	Aug-01-01	Aug-01-01	Aug-01-01
# Subsamples, Dec.					0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	21	22	23	24
1	WEEDY CONTROL				0 e	0 a	0 c	0 d
2	WEED-FREE CONTROL				99 a	0 a	99 a	99 a
3	CURBIT	3.0	PT/A	PRE	80 d	3 a	87 a	83 abc
4	PCC 170	3.0	PT/A	PRE	85 cd	1 a	84 ab	80 bc
5	PCC 170	4.0	PT/A	PRE	86 cd	4 a	65 b	65 c
6	PCC 170	5.0	PT/A	PRE	90 bc	6 a	80 ab	80 bc
7	CURBIT+	3.0	PT/A	PRE	90 bc	6 a	84 ab	85 ab
	COMMAND	0.67	PT/A	PRE				
8	PROWL	2.0	PT/A	PRE	84 cd	1 a	92 a	91 ab
9	CURBIT+	3.0	PT/A	PRE	95 ab	0 a	99 a	96 ab
	COMMAND+	0.67	PT/A	PRE				
	AUTHORITY	1.81	OZ/A	PRE				
10	CURBIT+	3.0	PT/A	PRE	90 bc	3 a	97 a	97 ab
	COMMAND+	0.67	PT/A	PRE				
	SANDEA	0.43	OZ/A	PRE				
LSD (P=.05)					7.3	5.7	19.9	19.1
Standard Deviation					5.0	4.0	13.7	13.2
CV					6.31	166.44	17.45	17.02

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.



# The Ohio State University

Weed Code					SETFA	CUMSA	CUMSA	CUMSA
Crop Code					CUUPE	MKT.WT.	CULL WT.	MKT.WT.
Rating Data Type					CONTROL	LBS.	LBS.	LBS.
Rating Unit					PERCENT			
Rating Date					Aug-01-01	Jul-20-01	Jul-20-01	Jul-23-01
# Subsamples, Dec.					0			
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	25	26	27	28
1	WEEDY CONTROL				0 c	1.20 a	0.03 a	3.53 a
2	WEED-FREE CONTROL				99 a	1.38 a	0.08 a	2.53 a
3	CURBIT	3.0	PT/A	PRE	79 b	1.75 a	0.08 a	3.22 a
4	PCC 170	3.0	PT/A	PRE	85 ab	1.92 a	0.08 a	3.33 a
5	PCC 170	4.0	PT/A	PRE	90 ab	1.70 a	0.13 a	4.03 a
6	PCC 170	5.0	PT/A	PRE	82 ab	1.53 a	0.08 a	3.28 a
7	CURBIT+	3.0	PT/A	PRE	90 ab	1.70 a	0.08 a	3.22 a
	COMMAND	0.67	PT/A	PRE				
8	PROWL	2.0	PT/A	PRE	96 ab	1.23 a	0.05 a	2.88 a
9	CURBIT+	3.0	PT/A	PRE	97 ab	1.15 a	0.00 a	1.90 a
	COMMAND+	0.67	PT/A	PRE				
	AUTHORITY	1.81	OZ/A	PRE				
10	CURBIT+	3.0	PT/A	PRE	95 ab	2.33 a	0.15 a	2.60 a
	COMMAND+	0.67	PT/A	PRE				
	SANDEA	0.43	OZ/A	PRE				
LSD (P=.05)					18.6	0.901	0.131	1.930
Standard Deviation					12.8	0.621	0.091	1.330
CV					15.82	39.13	125.0	43.6

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					CUMSA	CUMSA	CUMSA	CUMSA
Crop Code					CULL WT.	MKT.WT.	CULL WT.	MKT.WT.
Rating Data Type					LBS.	LBS.	LBS.	LBS.
Rating Unit					Jul-23-01	Jul-26-01	Jul-26-01	Jul-30-01
Rating Date								
# Subsamples, Dec.								
Trt	Treatment	Product	Product	Grow				
No.	Name	Rate	Rate Unit	Stg	29	30	31	32
1	WEEDY CONTROL				0.20 a	2.50 a	0.25 a	3.45 a
2	WEED-FREE CONTROL				0.08 a	2.72 a	0.30 a	2.60 a
3	CURBIT	3.0	PT/A	PRE	0.20 a	3.05 a	0.22 a	3.80 a
4	PCC 170	3.0	PT/A	PRE	0.08 a	3.60 a	0.25 a	4.10 a
5	PCC 170	4.0	PT/A	PRE	0.10 a	2.85 a	0.33 a	4.60 a
6	PCC 170	5.0	PT/A	PRE	0.10 a	4.10 a	0.15 a	4.90 a
7	CURBIT+	3.0	PT/A	PRE	0.08 a	3.47 a	0.28 a	3.93 a
	COMMAND	0.67	PT/A	PRE				
8	PROWL	2.0	PT/A	PRE	0.08 a	3.28 a	0.28 a	4.25 a
9	CURBIT+	3.0	PT/A	PRE	0.15 a	2.75 a	0.15 a	3.25 a
	COMMAND+	0.67	PT/A	PRE				
	AUTHORITY	1.81	OZ/A	PRE				
10	CURBIT+	3.0	PT/A	PRE	0.10 a	4.53 a	0.08 a	4.22 a
	COMMAND+	0.67	PT/A	PRE				
	SANDEA	0.43	OZ/A	PRE				
LSD (P=.05)					0.135	1.549	0.235	1.504
Standard Deviation					0.093	1.067	0.162	1.036
CV					81.12	32.49	71.12	26.51

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					CUMSA	CUMSA	CUMSA	CUMSA
Crop Code					CULL WT.	MKT.WT.	CULL WT.	MKT.WT.
Rating Data Type					LBS.	LBS.	LBS.	LBS.
Rating Unit					Jul-30-01	Aug-02-01	Aug-02-01	Aug-06-01
Rating Date								
# Subsamples, Dec.								
Trt No.	Treatment Name	Product Rate	Product Unit	Grow Stg	33	34	35	36
1	WEEDY CONTROL				0.10 a	4.92 a	0.25 a	4.72 a
2	WEED-FREE CONTROL				0.10 a	4.95 a	0.28 a	4.43 a
3	CURBIT	3.0	PT/A	PRE	0.18 a	5.98 a	0.25 a	5.47 a
4	PCC 170	3.0	PT/A	PRE	0.18 a	4.55 a	0.35 a	6.40 a
5	PCC 170	4.0	PT/A	PRE	0.23 a	5.72 a	0.35 a	4.57 a
6	PCC 170	5.0	PT/A	PRE	0.22 a	5.68 a	0.43 a	5.75 a
7	CURBIT+	3.0	PT/A	PRE	0.10 a	5.75 a	0.47 a	4.65 a
	COMMAND	0.67	PT/A	PRE				
8	PROWL	2.0	PT/A	PRE	0.30 a	5.53 a	0.40 a	4.88 a
9	CURBIT+	3.0	PT/A	PRE	0.08 a	5.23 a	0.40 a	4.68 a
	COMMAND+	0.67	PT/A	PRE				
	AUTHORITY	1.81	OZ/A	PRE				
10	CURBIT+	3.0	PT/A	PRE	0.22 a	6.10 a	0.33 a	5.95 a
	COMMAND+	0.67	PT/A	PRE				
	SANDEA	0.43	OZ/A	PRE				
LSD (P=.05)					0.206	1.995	0.356	1.911
Standard Deviation					0.142	1.375	0.246	1.317
CV					83.42	25.28	70.16	25.57

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code				CUMSA	CUMSA	CUMSA	CUMSA	
Crop Code				CULL WT.	MKT.WT.	CULL WT.	MKT.WT.	
Rating Data Type				LBS.	LBS.	LBS.	LBS.	
Rating Unit				Aug-06-01	Aug-09-01	Aug-09-01	Aug-13-01	
Rating Date								
# Subsamples, Dec.								
Trt No.	Treatment Name	Product Rate	Product Unit	Grow Stg				
					37	38	39	40
1	WEEDY CONTROL				0.82 a	4.32 a	1.02 a	2.90 c
2	WEED-FREE CONTROL				0.77 a	3.38 a	1.30 a	3.83 c
3	CURBIT	3.0	PT/A	PRE	0.60 a	5.22 a	1.10 a	3.95 bc
4	PCC 170	3.0	PT/A	PRE	0.80 a	4.38 a	0.75 a	5.93 a
5	PCC 170	4.0	PT/A	PRE	1.27 a	3.75 a	1.33 a	3.05 c
6	PCC 170	5.0	PT/A	PRE	0.78 a	4.18 a	1.20 a	3.45 c
7	CURBIT+	3.0	PT/A	PRE	1.00 a	5.07 a	1.18 a	5.63 ab
	COMMAND	0.67	PT/A	PRE				
8	PROWL	2.0	PT/A	PRE	1.10 a	4.95 a	1.10 a	3.30 c
9	CURBIT+	3.0	PT/A	PRE	0.45 a	3.67 a	1.13 a	3.55 c
	COMMAND+	0.67	PT/A	PRE				
	AUTHORITY	1.81	OZ/A	PRE				
10	CURBIT+	3.0	PT/A	PRE	1.02 a	4.68 a	1.30 a	4.28 abc
	COMMAND+	0.67	PT/A	PRE				
	SANDEA	0.43	OZ/A	PRE				
LSD (P=.05)					0.842	1.472	0.818	1.757
Standard Deviation					0.580	1.015	0.564	1.211
CV					67.3	23.28	49.47	30.39

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					CUMSA	CUMSA	CUMSA	CUUPE
Crop Code					CULL WT.	TOT.MKT.	TOT.CULL	MKT.NO.
Rating Data Type					LBS.	WT./LBS	WT./LBS	EACH
Rating Unit					Aug-13-01			Oct-08-01
Rating Date								0
# Subsamples, Dec.								
Trt	Treatment	Product	Product	Grow				
No.	Name	Rate	Rate Unit	Stg	41	42	43	44
1	WEEDY CONTROL				0.75 a	27.55 a	3.42 a	8 a
2	WEED-FREE CONTROL				0.85 a	25.80 a	3.75 a	10 a
3	CURBIT	3.0	PT/A	PRE	1.35 a	32.45 a	3.97 a	10 a
4	PCC 170	3.0	PT/A	PRE	0.90 a	34.20 a	3.38 a	8 a
5	PCC 170	4.0	PT/A	PRE	0.65 a	30.27 a	4.38 a	8 a
6	PCC 170	5.0	PT/A	PRE	1.08 a	32.85 a	3.83 a	11 a
7	CURBIT+	3.0	PT/A	PRE	0.77 a	33.43 a	3.72 a	7 a
	COMMAND	0.67	PT/A	PRE				
8	PROWL	2.0	PT/A	PRE	1.45 a	30.28 a	4.75 a	11 a
9	CURBIT+	3.0	PT/A	PRE	1.17 a	26.17 a	3.53 a	11 a
	COMMAND+	0.67	PT/A	PRE				
	AUTHORITY	1.81	OZ/A	PRE				
10	CURBIT+	3.0	PT/A	PRE	1.08 a	34.67 a	4.28 a	9 a
	COMMAND+	0.67	PT/A	PRE				
	SANDEA	0.43	OZ/A	PRE				
LSD (P=.05)					0.741	7.220	1.783	5.2
Standard Deviation					0.511	4.976	1.229	3.6
CV					50.8	16.17	31.5	38.79

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					CUUPE	CUUPE	CUUPE
Crop Code					MKT.WT.	CULL NO.	CULL WT.
Rating Data Type					LBS.		LBS.
Rating Unit					Oct-08-01	Oct-08-01	Oct-08-01
Rating Date						0	
# Subsamples, Dec.							
Trt	Treatment	Product	Product	Grow			
No.	Name	Rate	Rate Unit	Stg	45	46	47
1	WEEDY CONTROL				111.00 a	1 a	2.97 a
2	WEED-FREE CONTROL				158.98 a	1 a	4.30 a
3	CURBIT	3.0	PT/A	PRE	170.55 a	2 a	14.80 a
4	PCC 170	3.0	PT/A	PRE	120.82 a	3 a	31.85 a
5	PCC 170	4.0	PT/A	PRE	115.15 a	2 a	15.52 a
6	PCC 170	5.0	PT/A	PRE	152.85 a	2 a	17.15 a
7	CURBIT+	3.0	PT/A	PRE	108.65 a	1 a	9.85 a
	COMMAND	0.67	PT/A	PRE			
8	PROWL	2.0	PT/A	PRE	175.00 a	1 a	1.67 a
9	CURBIT+	3.0	PT/A	PRE	173.70 a	1 a	5.30 a
	COMMAND+	0.67	PT/A	PRE			
	AUTHORITY	1.81	OZ/A	PRE			
10	CURBIT+	3.0	PT/A	PRE	133.70 a	1 a	8.63 a
	COMMAND+	0.67	PT/A	PRE			
	SANDEA	0.43	OZ/A	PRE			
LSD (P=.05)					74.381	2.1	25.220
Standard Deviation					51.263	1.5	17.381
CV					36.09	105.5	155.12

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

IMPROVING WEED CONTROL IN LETTUCE BY ACTIVATING KERB WITH TIMELY IRRIGATION (>

Trial ID: KERBIRR#1CV 2001      Study Dir.: DR.DOUGLAS J.DOOHAN AND T.KOCH  
Location: CELERYVILLE,OHIO      Investigator: DR. DOUGLAS J. DOOHAN

## GENERAL TRIAL INFORMATION

**Study Director:** DR. DOUGLAS J. DOOHAN AND T.KOCH      **Title:** ASST. PROFESSOR  
**Affiliation:** OARDC/ THE OHIO STATE UNIVERSITY  
**Postal Code:** 44691  
**Investigator:** DR. DOUGLAS J. DOOHAN      **Title:** ASST. PROFESSOR  
**Affiliation:** OARDC / THE OHIO STATE UNIVERSITY  
**Postal Code:** 44691

## TRIAL LOCATION

**City:** CELERYVILLE; PO (WILLARD)      **Trial Status:** COMPLETE  
**State/Prov.:** OHIO      **Trial Reliability:** RELIABLE  
**Postal Code:** 44890      **Initiation Date:** Jun-05-01  
**Country:** USA      **Planned Completion Date:** Aug-15-01  
**Directions:** FROM WOOSTER: TAKE SR 250 NORTH TO SR 224 WEST TO WILLARD; THEN SR 101 SOUTH APPROX. 3 MI. TO MUCK CROPS BRANCH.

## COOPERATOR/LANDOWNER

**Cooperator:** RICK CALLENDER, MGR.      **Country:** USA  
**Org:** OARDC, MUCK CROPS BRANCH      **Phone No:** 419-935-1201  
**Address 1:** SR 101 SOUTH  
**City:** WILLARD  
**State/Prov:** OHIO  
**Postal Code:** 44890

**Conducted Under GLP (Y/N):** N      **Conducted Under GEP (Y/N):** N

**Objective:** TO EVALUATE KERB RATES WITH IRRIGATION TIMINGS AND SUBSEQUENT WEED CONTROL.

## CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	AMAXX	PIGWEEED SPECIES	AMARANTH SPP.
2.	POROL	COMMON PURSLANE	PORTULACA OLERACEA L.
3.	DIGSA	LARGE CRABGRASS	DIGITARIA SANGUINALIS L.SCOP.
4.	AMABL	PROSTRATE PIGWEED	AMARANTHUS BLITOIDES S. WATS.
5.	AMARE	REDROOT PIGWEED	AMARANTHUS RETROFLEXUS L.

**Crop 1:** LACSA LETTUCE      **Variety:** CAPISTRANO  
**Planting Date:** Jun-05-01      **Planting Method:** CONVENTIONAL SEEDER  
**Rate:** 4 SEEDS/FT.      **Depth:** 0.5 "  
**Row Spacing:** 19 "      **Seed Bed:** CONVENTIONAL  
**Soil Moisture:** MOIST      **Emergence Date:** Jun-10-01

## SITE AND DESIGN

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

# The Ohio State University

## SOIL DESCRIPTION

% OM: 45                      Texture: MUCK  
 pH: 5.62                      Soil Name: LINWOOD MUCK  
                                     Fert. Level: HIGH

## APPLICATION DESCRIPTION

	A
Application Date:	Jun-05-01
Time of Day:	10:30 AM
Application Method:	SPRAY
Application Timing:	PREEM
Applic. Placement:	BDCST
Air Temp., Unit:	20 C
% Relative Humidity:	68
Wind Velocity, Unit:	1 MPH
Dew Presence (Y/N):	N
Water Hardness:	SOFT
Soil Moisture:	MOIST
% Cloud Cover:	60

## CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	LACSA PREEM
Stage Scale:	.
Height, Unit:	0. .

## WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	AMAXX PREEM
Stage Scale:	.
Density, Unit:	. .
Weed 2 Code, Stage:	POROL PREEM
Stage Scale:	.
Density, Unit:	. .
Weed 3 Code, Stage:	DIGSA PREEM
Stage Scale:	.
Density, Unit:	. .



# The Ohio State University

## APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	30 PSI
Nozzle Type:	FFAN
Nozzle Size:	8002 VS
Nozzle Spacing, Unit:	18 IN
Nozzles/Row:	4
Band Width, Unit:	60 IN
Boom Length, Unit:	54 IN
Boom Height, Unit:	18 IN
Ground Speed, Unit:	3 MPH
Incorporation Equip.:	NONE
Hours to Incorp.:	0
Incorp. Depth, Unit:	0
Carrier:	WATER
Spray Volume, Unit:	20 GPA
Propellant:	CO2
Tank Mix (Y/N):	N

# The Ohio State University

IMPROVING WEED CONTROL IN LETTUCE BY ACTIVATING KERB WITH TIMELY IRRIGATION (>

Trial ID: KERBIRR#1CV 2001

Study Dir.: DR.DOUGLAS J.DOOHAN AND T.KOCH

Location: CELERYVILLE,OHIO

Investigator: DR. DOUGLAS J. DOOHAN

## Trial Comments

WEED COUNTS WERE TAKEN IN PLOT CENTERS, USING THREE (12" X 12") QUADRATS AT RANDOM. WEED SPECIES WERE THEN IDENTIFIED AND CLASSIFIED INTO 3 GROUPS:

SEEDLING

1) COTY = COTYLEDON

2) C-1/2" = COTYLEDON TO 1/2" TALL WEED

3) > 1/2" = WEED SEEDLINGS TALLER THAN 1/2"

WE HAD POOR LETTUCE GERMINATION . IRRIGATION IMMEDIATELY AFTER HERBICIDE APPLICATION IMPROVED CONTROL OF PURSLANE AT 2, 4, AND 8 POUNDS PER ACRE.

# The Ohio State University

**IMPROVING WEED CONTROL IN LETTUCE BY ACTIVATING KERB WITH TIMELY IRRIGATION (>**

Trial ID: KERBIRR#1CV 2001  
 Location: CELERYVILLE, OHIO

Study Dir.: DR.DOUGLAS J.DOOHAN AND T.KOCH  
 Investigator: DR. DOUGLAS J. DOOHAN

Weed Code		POROL LACSA	AMAXX LACSA	POROL LACSA COTY WEED COUNT
Crop Code				
Part Rated				
Rating Data Type		CONTROL PERCENT	CONTROL PERCENT	
Rating Unit				
Rating Date		Jun-20-01	Jun-20-01	Jun-22-01
Trt-Eval Interval		15 DA-A	15 DA-A	
# Subsamples, Dec.		0	0	0
Trt Treatment	Product	Product	Grow	
No. Name	Rate	Rate Unit	Stg	
				1
				2
				3
1 CONTROL-IRR.0 HR.AFT APP				0 e
2 CONTROL-IRR.72 HR.AFT APP				0 e
3 KERB-IRR.0 HR.AFTER APPL	2 LB/A	PRE		88 abc
4 KERB-IRR.72 HR.AFTER APPL	2 LB/A	PRE		78 d
5 KERB-IRR 0 HR.AFTER APPL	4 LB/A	PRE		90 abc
6 KERB-IRR.72 HR.AFTER APPL	4 LB/A	PRE		85 bcd
7 KERB-IRR 0 HR.AFTER APPL	8 LB/A	PRE		94 a
8 KERB-IRR.72 HR.AFTER APPL	8 LB/A	PRE		84 cd
9 KERB-IRR 0 HR.AFTER APPL	12 LB/A	PRE		95 a
10 KERB-IRR.72 HR.AFTER APPL	12 LB/A	PRE		93 ab
LSD (P=.05)				8.0
Standard Deviation				5.5
CV				7.8
				26.5
				18.3
				26.7
				12.8
				8.8
				43.98

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code		POROL	POROL	AMAXX
Crop Code		LACSA	LACSA	LACSA
Part Rated		C-1/2"	>1/2"	COTY
Rating Data Type		WEED	WEED	WEED
Rating Unit		COUNT	COUNT	COUNT
Rating Date		Jun-22-01	Jun-22-01	Jun-22-01
Trt-Eval Interval				
# Subsamples, Dec.		0	0	0
Trt Treatment	Product	Product	Grow	
No. Name	Rate	Rate Unit	Stg	
				4
				5
				6
1 CONTROL-IRR.0 HR.AFT APP				16 a
2 CONTROL-IRR.72 HR.AFT APP				16 a
3 KERB-IRR.0 HR.AFTER APPL	2 LB/A	PRE		12 ab
4 KERB-IRR.72 HR.AFTER APPL	2 LB/A	PRE		16 a
5 KERB-IRR 0 HR.AFTER APPL	4 LB/A	PRE		10 abc
6 KERB-IRR.72 HR.AFTER APPL	4 LB/A	PRE		15 a
7 KERB-IRR 0 HR.AFTER APPL	8 LB/A	PRE		2 c
8 KERB-IRR.72 HR.AFTER APPL	8 LB/A	PRE		3 bc
9 KERB-IRR 0 HR.AFTER APPL	12 LB/A	PRE		3 bc
10 KERB-IRR.72 HR.AFTER APPL	12 LB/A	PRE		4 bc
LSD (P=.05)				9.6
Standard Deviation				6.6
CV				68.1
				5.4
				3.7
				7.1
				4.9
				65.28

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.



# The Ohio State University

Weed Code	DIGSA	DIGSA	
Crop Code	LACSA	LACSA	LACSA
Part Rated	C-1/2"	>1/2"	
Rating Data Type	WEED	WEED	INJURY
Rating Unit	COUNT	COUNT	PERCENT
Rating Date	Jun-22-01	Jun-22-01	Jul-11-01
Trt-Eval Interval			
# Subsamples, Dec.	0	0	0
Trt Treatment	Product	Product	Grow
No. Name	Rate	Rate Unit	Stg
	10	11	12
1 CONTROL-IRR.0 HR.AFT APP			1 cd
2 CONTROL-IRR.72 HR.AFT APP			0 d
3 KERB-IRR.0 HR.AFTER APPL	2 LB/A	PRE	0 d
4 KERB-IRR.72 HR.AFTER APPL	2 LB/A	PRE	1 cd
5 KERB-IRR 0 HR.AFTER APPL	4 LB/A	PRE	1 bcd
6 KERB-IRR.72 HR.AFTER APPL	4 LB/A	PRE	2 abc
7 KERB-IRR 0 HR.AFTER APPL	8 LB/A	PRE	2 ab
8 KERB-IRR.72 HR.AFTER APPL	8 LB/A	PRE	1 bcd
9 KERB-IRR 0 HR.AFTER APPL	12 LB/A	PRE	1 cd
10 KERB-IRR.72 HR.AFTER APPL	12 LB/A	PRE	2 a
LSD (P=.05)	1.2	1.3	0.0
Standard Deviation	0.8	0.9	0.0
CV	82.43	135.68	0.0

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code				AMABL	AMARE
Crop Code				LACSA	LACSA
Part Rated					
Rating Data Type				CONTROL	CONTROL
Rating Unit				PERCENT	PERCENT
Rating Date				Jul-11-01	Jul-11-01
Trt-Eval Interval					
# Subsamples, Dec.				0	0
Trt Treatment	Product	Product	Grow		
No. Name	Rate	Rate Unit	Stg	13	14
1 CONTROL-IRR.0 HR.AFT APP				0 a	0 a
2 CONTROL-IRR.72 HR.AFT APP				0 a	0 a
3 KERB-IRR.0 HR.AFTER APPL	2 LB/A		PRE	7 a	0 a
4 KERB-IRR.72 HR.AFTER APPL	2 LB/A		PRE	4 a	0 a
5 KERB-IRR 0 HR.AFTER APPL	4 LB/A		PRE	0 a	0 a
6 KERB-IRR.72 HR.AFTER APPL	4 LB/A		PRE	0 a	0 a
7 KERB-IRR 0 HR.AFTER APPL	8 LB/A		PRE	1 a	3 a
8 KERB-IRR.72 HR.AFTER APPL	8 LB/A		PRE	0 a	4 a
9 KERB-IRR 0 HR.AFTER APPL	12 LB/A		PRE	0 a	7 a
10 KERB-IRR.72 HR.AFTER APPL	12 LB/A		PRE	0 a	0 a
LSD (P=.05)				5.5	6.3
Standard Deviation				3.8	4.3
CV				314.96	325.13

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

## CONTROLLING WEEDS IN LETTUCE WITH SPLIT APPLICATIONS OF KERB

Trial ID: KERBTILLC 2001      Study Dir.: DR.DOUGLAS AND T.KOCH  
 Location: CELERYVILLE,OHIO      Investigator: DR. DOUGLAS J. DOOHAN

### GENERAL TRIAL INFORMATION

**Study Director:** DR. DOUGLAS J. DOOHAN AND T.KOCH      **Title:** ASST. PROFESSOR  
**Affiliation:** OARDC/THE OHIO STATE UNIVERSITY  
**Postal Code:** 44691  
**Investigator:** DR. DOUGLAS J. DOOHAN      **Title:** ASST. PROFESSOR  
**Affiliation:** OARDC/ THE OHIO STATE UNIVERSITY  
**Postal Code:** 44691

### TRIAL LOCATION

**City:** CELERYVILLE;PO (WILLARD)  
**State/Prov.:** OHIO  
**Postal Code:** 44890  
**Country:** USA  
**Directions:** FROM WOOSTER, TAKE ST 250 NORTH TO SR 224. THEN SR 224 WEST TO WILLARD; THEN SR 101 SOUTH APPROX.3 MI. TO MICK CROPS BRANCH

### COOPERATOR/LANDOWNER

**Cooperator:** RICK CALLENDER, MGR.      **Country:** USA  
**Org:** OARDC, MUCK CROPS BRANCH      **Phone No:** 419-935-1201  
**Address 1:** SR 101 SOUTH  
**City:** WILLARD  
**State/Prov:** OHIO  
**Postal Code:** 44890

**Conducted Under GLP (Y/N):** N      **Conducted Under GEP (Y/N):** N

**Objective:** TO EVALUATE WEED CONTROL USING VARIOUS RATES, TIMINGS & CULTIVATION

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	AMAXX	PIGWEEED SPECIES	AMARANTH SPP.
2.	POROL	COMMON PURSLANE	PORTULACA OLERACEA L.
3.	DIGSA	LARGE CRABGRASS	DIGITARIA SANGUINALIS L. SCOP.

**Crop 1:** LACSA LETTUCE      **Variety:** GREEN TOWERS MI  
**Planting Date:** Jul-12-01      **Planting Method:** CONVENTIONAL  
**Rate:** 4 SEEDS/FT.      **Depth:** 1.5 "  
**Row Spacing:** 18 INCH      **Seed Bed:** CONVENTIONAL  
**Soil Moisture:** DRY      **Emergence Date:** Jul-19-01

### SITE AND DESIGN

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

### MAINTENANCE

**Field Prep./Maintenance:** PLOWED 4/17/01, FERTILIZED WITH 17-17-17 @ 500#/A. DISKED, LEVELED, & CULTIPACKED ON 7/11/01; ALSO ADDED .50" OF IRRIGATION (GROUND WAS SO DRY AFRAID GERMINATION OF SEED IN DANGER. ON 7/12/01 ADDED 1" IRRIGATION+ TO SET KERB.



# The Ohio State University

## SOIL DESCRIPTION

% OM: 45                      **Texture:** MUCK  
       pH: 5.62               **Soil Name:** LINWOOD MUCK  
                                  **Fert. Level:** HIGH

## APPLICATION DESCRIPTION

	A	B
<b>Application Date:</b>	Jul-11-01	Aug-01-01
<b>Time of Day:</b>	10:00 AM	11 AM
<b>Application Method:</b>	SPRAY	SPRAY
<b>Application Timing:</b>	PRE	2 WK. LAT
<b>Applic. Placement:</b>	BDCST	BDCST
<b>Air Temp., Unit:</b>	22.1 C	28.9 C
<b>% Relative Humidity:</b>		63
<b>Wind Velocity, Unit:</b>	3 MPH	1.5 MPH
<b>Dew Presence (Y/N):</b>	N	N
<b>Water Hardness:</b>	SOFT	SOFT
<b>Soil Moisture:</b>	DRY	DRY
<b>% Cloud Cover:</b>	50	10

## CROP STAGE AT EACH APPLICATION

	A	B
<b>Crop 1 Code, Stage:</b>	LACSA PREEM	LACSA 2 WK. LAT
<b>Stage Scale:</b>	.	VEGET.
<b>Height, Unit:</b>	0. .	<3"

## WEED STAGE AT EACH APPLICATION

	A	B
<b>Weed 1 Code, Stage:</b>	AMAXX RREEM	AMAXX 2 WK.LATE
<b>Stage Scale:</b>	'	'
<b>Density, Unit:</b>	' '	' '
<b>Weed 2 Code, Stage:</b>	POROL PREEM	POROL 2 WK.LATE
<b>Stage Scale:</b>	'	'
<b>Density, Unit:</b>	' '	' '
<b>Weed 3 Code, Stage:</b>	DIGSA PREEM	DIGSA 2 WK.LATE
<b>Stage Scale:</b>	'	'
<b>Density, Unit:</b>	' '	' '

# The Ohio State University

## APPLICATION EQUIPMENT

	A	B
<b>Appl. Equipment:</b>	BACKPACK	BACKPACK
<b>Operating Pressure:</b>	30 PSI	30 PSI
<b>Nozzle Type:</b>	FFAN	FFAN
<b>Nozzle Size:</b>	8002 VS	8002VS
<b>Nozzle Spacing, Unit:</b>	18 IN	18 IN
<b>Nozzles/Row:</b>	4	4
<b>Band Width, Unit:</b>	54 IN	54 IN
<b>Boom Height, Unit:</b>	18 IN	18 IN
<b>Ground Speed, Unit:</b>	3 MPH	3 MPH
<b>Carrier:</b>	WATER	WATER
<b>Spray Volume, Unit:</b>	20 GPA	20 GPA
<b>Propellant:</b>	CO2	CO2

# The Ohio State University

## CONTROLLING WEEDS IN LETTUCE WITH SPLIT APPLICATIONS OF KERB

Trial ID: KERBTILLC 2001

Study Dir.: DR.DOUGLAS AND T.KOCH

Location: CELERYVILLE, OHIO

Investigator: DR. DOUGLAS J. DOOHAN

### Trial Comments

THIS IS A ROMAINE TYPE LETTUCE ; SEED IS TREATED & COATED. WE HAD VERY POOR LETTUCE EMERGENCE & STAND .

WEED COUNTS WERE TAKEN RANDOMLY WITHIN PLOT USING THREE ( 10" X 10" ) QUADRATS PER PLOT.

THE BIOMASS WEED DATA ( WEED NUMBERS AND WEIGHTS ) WERE BASED ON TOTAL PLOT AREA, ( 10' X 10' )

KEY: # = NUMBER ; WEIGHTS ARE IN KILOGRAMS ( KG.)

SPLIT APPLICATIONS OF ( 6+ 6 LBS./ACRE ) AND ( 8+ 4 LBS./ACRE ) GAVE BEST CONTROL. KERB IS MORE EFFECTIVE ON PURSLANE THAN PIGWEED.

# The Ohio State University

## CONTROLLING WEEDS IN LETTUCE WITH SPLIT APPLICATIONS OF KERB

Trial ID: KERBTILLC 2001

Study Dir.: DR.DOUGLAS AND T.KOCH

Location: CELERYVILLE,OHIO

Investigator: DR. DOUGLAS J. DOOHAN

Weed Code	AMAXX	POROL	DIGSA	
Crop Code	LACSA	LACSA	LACSA	LACSA
Part Rated				
Rating Data Type	WEED	WEED	WEED	INJURY
Rating Unit	COUNT	COUNT	COUNT	PERCENT
Rating Date	Jul-24-01	Jul-24-01	Jul-24-01	Aug-08-01
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	28 DA-A
# Subsamples, Dec.	0	0	0	0
Trt Treatment	Product	Product	Grow	
No. Name	Rate	Rate Unit	Stg	
				1
				2
				3
				4
1 KERB +	2 LB/A	PRE		3 a
KERB 2 WK. LATER	2 LB/A	POST		30 a
2 KERB +	4 LB/A	PRE		5 a
KERB 2 WK. LATER	4 LB/A	POST		28 a
3 KERB +	6 LB/A	PRE		5 a
KERB 2 WK. LATER	6 LB/A	POST		21 a
4 KERB +	8 LB/A	PRE		6 a
KERB 2 WK. LATER	4 LB/A	POST		15 a
LSD (P=.05)				5.0
Standard Deviation				3.1
CV				68.37
				12.8
				8.0
				0.7
				0.4
				0.0
				0.0

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

## The Ohio State University

Weed Code					AMAXX	POROL	AMAXX	POROL
Crop Code					LACSA	LACSA	LACSA	LACSA
Part Rated								
Rating Data Type					CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit					PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					Aug-08-01	Aug-08-01	Aug-17-01	Aug-17-01
Trt-Eval Interval					28 DA-A	28 DA-A		
# Subsamples, Dec.					0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	5	6	7	8
1	KERB + KERB 2 WK. LATER	2 LB/A	LB/A	PRE POST	81 b	63 b	84 b	61 c
2	KERB + KERB 2 WK. LATER	4 LB/A	LB/A	PRE POST	90 ab	89 a	85 b	85 ab
3	KERB + KERB 2 WK. LATER	6 LB/A	LB/A	PRE POST	93 a	89 a	91 a	89 a
4	KERB + KERB 2 WK. LATER	8 LB/A	LB/A	PRE POST	95 a	84 a	95 a	80 b
LSD (P=.05)					9.6	12.2	5.9	6.5
Standard Deviation					6.0	7.6	3.7	4.1
CV					6.72	9.45	4.13	5.18

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

## The Ohio State University

Weed Code				AMAXX	POROL	AMAXX	POROL
Crop Code				LACSA	LACSA	LACSA	LACSA
Part Rated							
Rating Data Type				WEED	WEED	CONTROL	CONTROL
Rating Unit				COUNT	COUNT	PERCENT	PERCENT
Rating Date				Aug-17-01	Aug-17-01	Sep-13-01	Sep-13-01
Trt-Eval Interval							
# Subsamples, Dec.				0	0	0	0
Trt Treatment	Product	Product	Grow				
No. Name	Rate	Rate Unit	Stg	9	10	11	12
1 KERB +	2 LB/A	LB/A	PRE	0 a	10 a	81 a	69 a
KERB 2 WK. LATER	2 LB/A	LB/A	POST				
2 KERB +	4 LB/A	LB/A	PRE	0 a	5 bc	54 b	59 a
KERB 2 WK. LATER	4 LB/A	LB/A	POST				
3 KERB +	6 LB/A	LB/A	PRE	0 a	3 c	29 c	53 a
KERB 2 WK. LATER	6 LB/A	LB/A	POST				
4 KERB +	8 LB/A	LB/A	PRE	1 a	7 ab	48 bc	68 a
KERB 2 WK. LATER	4 LB/A	LB/A	POST				
LSD (P=.05)				0.8	3.7	24.6	36.6
Standard Deviation				0.5	2.3	15.4	22.9
CV				153.19	37.8	29.11	36.96

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

## The Ohio State University

Weed Code				POROL	POROL	AMAXX	AMAXX
Crop Code				LACSA	LACSA	LACSA	LACSA
Part Rated							
Rating Data Type				BIOMASS	BIOMASS	BIOMASS	BIOMASS
Rating Unit				WEED #	WT./KG.	WEED #	WT./KG.
Rating Date				Sep-13-01	Sep-13-01	Sep-13-01	Sep-13-01
Trt-Eval Interval							
# Subsamples, Dec.				0		0	
Trt Treatment	Product	Product	Grow				
No. Name	Rate	Rate Unit	Stg	13	14	15	16
1 KERB +	2 LB/A	LB/A	PRE	76 a	3.65 a	24 a	11.10 a
KERB 2 WK. LATER	2 LB/A	LB/A	POST				
2 KERB +	4 LB/A	LB/A	PRE	40 b	1.85 a	17 a	7.22 a
KERB 2 WK. LATER	4 LB/A	LB/A	POST				
3 KERB +	6 LB/A	LB/A	PRE	40 b	1.88 a	14 a	5.25 a
KERB 2 WK. LATER	6 LB/A	LB/A	POST				
4 KERB +	8 LB/A	LB/A	PRE	43 b	2.88 a	13 a	4.47 a
KERB 2 WK. LATER	4 LB/A	LB/A	POST				
LSD (P=.05)				25.6	1.926	17.5	6.638
Standard Deviation				16.0	1.204	10.9	4.150
CV				32.24	47.0	64.6	59.18

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

## The Ohio State University

Weed Code					LACSA	LACSA
Crop Code					LETTUC	LETTUC
Part Rated					YIELD	YIELD
Rating Data Type					# HEADS	WT./KG.
Rating Unit					Sep-13-01	Sep-13-01
Rating Date						
Trt-Eval Interval						
# Subsamples, Dec.					0	
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	17	18
1	KERB + KERB 2 WK. LATER	2 LB/A	LB/A	PRE POST	13 a	7.765 a
2	KERB + KERB 2 WK. LATER	4 LB/A	LB/A	PRE POST	17 a	8.200 a
3	KERB + KERB 2 WK. LATER	6 LB/A	LB/A	PRE POST	17 a	9.875 a
4	KERB + KERB 2 WK. LATER	8 LB/A	LB/A	PRE POST	24 a	8.675 a
LSD (P=.05)					15.2	9.1599
Standard Deviation					9.5	5.7268
CV					54.46	66.37

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.



# The Ohio State University

## WEED CONTROL IN GREEN ONIONS WITH PROWL

Trial ID: ONIONCV 2001                      Study Dir.: DR.DOUGLAS J. DOOHAN AND T.KOCH  
 Location: CELERYVILLE,OHIO              Investigator: DR. DOUGLAS J. DOOHAN

### GENERAL TRIAL INFORMATION

**Study Director:** DR.DOUGLAS J. DOOHAN AND T.KOCH                      **Title:** ASST. PROFESSOR  
**Affiliation:** OARDC/ THE OHIO STATE UNIVERSITY  
**Postal Code:** 44691  
**Investigator:** DR. DOUGLAS J. DOOHAN    **Title:** ASST. PROFESSOR  
**Affiliation:** OARDC /THE OHIO STATE UNIVERSITY  
**Postal Code:** 44691

### TRIAL LOCATION

**City:** CELERYVILLE; PO (WILLARD)                      **Trial Status:** FINAL  
**State/Prov.:** OHIO    **Trial Reliability:** RELIABLE  
**Postal Code:** 44890    **Initiation Date:** May-07-01  
**Country:** USA    **Planned Completion Date:** Aug-15-01  
**Directions:** FROM WOOSTER: TAKE ST 250 NORTH TO SR 224. THEN SR 224 WEST TO WILLARD; THEN SR 101 SOUTH APPROX. 3 MI. TO MUCK CROPS BRANCH

### COOPERATOR/LANDOWNER

**Cooperator:** RICK CALLENDER, MGR.    **Country:** USA  
**Org:** OARDC, MUCK CROPS BRANCH    **Phone No:** 419-935-1201  
**Address 1:** SR 101 SOUTH  
**City:** WILLARD  
**State/Prov:** OHIO  
**Postal Code:** 44890

**Conducted Under GLP (Y/N):** N    **Conducted Under GEP (Y/N):** N

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	AMAXX	PIGWEEED SPECIES	AMARANTHUS SPP.
2.	DIGSA	LARGE CRABGRASS	DIGITARIA SANGUINALIS (L.) SCOP.
3.	POLPY	PENNSYLVANIA SMARTWEED	POLYGONUM PENSYLVANICUM (L.)
4.	POROL	COMMON PURSLANE	PORTULACA OLERACEA L.
5.	CHEAL	COMMON LAMBSQUARTER	CHENOPODIUM ALBUM L.
6.	GASCI	HAIRY GALINSOGA	GALINSOGA CILIATA (RAF.) BLAKE

**Crop 1:** ALLCE GREEN ONION    **Variety:** ISHIKURA IMPROVED  
**Planting Date:** May-07-01    **Planting Method:** CONVENTIONAL  
**Rate:** 15 SEEDS/FOOT    **Depth:** 0.50 IN  
**Row Spacing:** 16 IN    **Seed Bed:** CONVENTIONAL  
**Soil Moisture:** MEDIUM    **Emergence Date:** May-20-01

### SITE AND DESIGN

**Plot Width, Unit:** 8 FT    **Plot Length, Unit:** 30 FT    **Reps:** 4  
**Site Type:** LEVEL MUCK FIELD  
**Tillage Type:** CONVENTIONAL    **Study Design:** RANDOMIZED COMPLETE BLOCK

### MAINTENANCE

**Field Prep./Maintenance:** FIELD DISKED MAY 7 ,THEN PLANTED.DRENCH OF LORSBAN 4E APPLIED IN FURROW FOR ONION MAGGOT CONTROL AT PLANTING.THE " HAND-WEEDED CONTROL PLOTS", (102,214,303, & 406) , WERE HOED 6/15-6/17/01.

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## SOIL DESCRIPTION

% Sand: 63.7    % OM: 70    Texture: MUCK  
 % Silt: 30.7    pH: 5.62    Soil Name: LINWOOD MUCK  
 % Clay: 5.0    Fert. Level: HIGH

## APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	May-09-01	May-22-01	May-31-01	Jun-20-01
Time of Day:	9:30 AM	9:30 AM	9:30 AM	10:30 AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	LOOP/FLAG	E POST	LATE POST
Applic. Placement:	BDCST	BDCST	BDCST	BDCST
Air Temp., Unit:	22 C	13 C	16.7 C	23.7 C
% Relative Humidity:	43	88	44	81
Wind Velocity, Unit:	8 MPH	2 MPH	2 MPH	2 MPH
Dew Presence (Y/N):	N	N	N	N
Water Hardness:	SOFT	SOFT	SOFT	SOFT
Soil Moisture:	MOIST	MOIST	MOIST	MOIST
% Cloud Cover:	70	70	20	70

## CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ALLCE PREEM	ALLCE LOOP	ALLCE EPOST
Stage Scale:	.	LOOP/FLAG	75%-2LF
Height, Unit:	0 IN	2 IN	3 IN
	D		
Crop 1 Code, Stage:	ALLCE LPOST		
Stage Scale:	2-LF		
Height, Unit:	7 IN		

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## WEED STAGE AT EACH APPLICATION

	A	B	C
<b>Weed 1 Code, Stage:</b>	AMAXX PREEM	AMAXX LOOP	AMAXX EPOST
<b>Stage Scale:</b>	.	COTY-1 TR	COTY-1 TR
<b>Density, Unit:</b>	. .	MED	MED
<b>Weed 2 Code, Stage:</b>	DIGSA PREEM	DIGSA LOOP	DIGSA EPOST
<b>Stage Scale:</b>	.	COTY-1 TR	1 TR-.5"
<b>Density, Unit:</b>	. .	MED	M
<b>Weed 3 Code, Stage:</b>	POLPY PREEM	POLPY LOOP	POLPY EPOST
<b>Stage Scale:</b>	'	COTY	COTY-1 TR
<b>Density, Unit:</b>	' '	M-HI	M-HI
<b>Weed 4 Code, Stage:</b>	POROL PREEM	POROL LOOP	POROL EPOST
<b>Stage Scale:</b>	.	COTY-1T.	COTY
<b>Density, Unit:</b>	. .	MED	MED
<b>Weed 5 Code, Stage:</b>	CHEAL PREEM	CHEAL LOOP	CHEAL
<b>Stage Scale:</b>	.	COTY-1T.	COTY-1T.
<b>Density, Unit:</b>	. .	MED	MED
	<b>D</b>		
<b>Weed 1 Code, Stage:</b>	AMAXX LPOST		
<b>Stage Scale:</b>	< 1"		
<b>Density, Unit:</b>	MED		
<b>Weed 2 Code, Stage:</b>	DIGSA LPOST		
<b>Stage Scale:</b>	< 1"		
<b>Density, Unit:</b>	M		
<b>Weed 3 Code, Stage:</b>	POLPY LPOST		
<b>Stage Scale:</b>	< 1"		
<b>Density, Unit:</b>	M-H		
<b>Weed 4 Code, Stage:</b>	POROL LPOST		
<b>Stage Scale:</b>	<1"		
<b>Density, Unit:</b>	MED		
<b>Weed 5 Code, Stage:</b>	CHEAL LPOST		
<b>Stage Scale:</b>	<1"		
<b>Density, Unit:</b>	M		

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## APPLICATION EQUIPMENT

	A	B	C	D
<b>Appl. Equipment:</b>	BACKPACK	BACKPACK	BACKPACK	BACKPACK
<b>Operating Pressure:</b>	30 PSI	30 PSI	30 PSI	30 PSI
<b>Nozzle Type:</b>	FFAN	FFAN	FFAN	FFAN
<b>Nozzle Size:</b>	8002VS	8002VS	8002VS	8002VS
<b>Nozzle Spacing, Unit:</b>	18 IN	18 IN	18 IN	18 IN
<b>Nozzles/Row:</b>	4	4	4	4
<b>Band Width, Unit:</b>	60 IN	60 IN	60 IN	60 IN
<b>Boom Height, Unit:</b>	18 IN	18 IN	18 IN	18 IN
<b>Ground Speed, Unit:</b>	3 MPH	3 MPH	3 MPH	3 MPH
<b>Carrier:</b>	WATER			
<b>Spray Volume, Unit:</b>	20 GPA	20 GPA	20 GPA	20 GPA
<b>Propellant:</b>	CO2	CO2	CO2	CO2
<b>Tank Mix (Y/N):</b>	Y	Y	Y	Y

# The Ohio State University

## WEED CONTROL IN GREEN ONIONS WITH PROWL

Trial ID: ONIONCV 2001

Study Dir.: DR.DOUGLAS J. DOOHAN AND T.KOCH

Location: CELERYVILLE, OHIO

Investigator: DR. DOUGLAS J. DOOHAN

### Trial Comments

PLOTS WERE 3 ROWS WIDE BY 10' LONG. WEED COUNTS CONSISTED OF TAKING 3 QUADRATS, ( 12" X 12 " ) RANDOMLY IN PLOT CENTER . WEEDS WERE THEN IDENTIFIED, COUNTED, AND CLASSIFIED ACCORDING TO HEIGHT. WE HAD 3 HEIGHT CLASSES: 1) COTYLEDON ; 2) COTYLEDON - .50" TALL; 3) WEEDS TALLER THAN .50" . STAND COUNTS WERE BASED ON TWO LINEAR FEET OF ROW ; HARVEST DATA WAS BASED ON TEN LINEAR FEET OF ROW IN PLOT CENTER. WEIGHT IN POUNDS.

# The Ohio State University

## WEED CONTROL IN GREEN ONIONS WITH PROWL

Trial ID: ONIONCV 2001

Study Dir.: DR.DOUGLAS J. DOOHAN AND T.KOCH

Location: CELERYVILLE, OHIO

Investigator: DR. DOUGLAS J. DOOHAN

Weed Code					ALLCE	AMAXX ALLCE	POROL ALLCE
Crop Code							
Part Rated							
Rating Data Type					INJURY	CONTROL	CONTROL
Rating Unit					PERCENT	PERCENT	PERCENT
Rating Date					May-17-01	May-17-01	May-17-01
Crop Stage					1 LF	1 LF	1 LF
# Subsamples, Dec.					0	0	0
Trt	Treatment	Product	Product	Grow			
No.	Name	Rate	Rate Unit	Stg	1	2	3
1	WEEDY CONTROL				0 b	25 b	25 b
2	HAND WEEDED CONTROL				0 b	74 a	74 a
3	PROWL	3.2	PT/A	PRE	0 b	84 a	83 a
	PROWL	3.2	PT/A	EPOST			
4	PROWL	4.0	PT/A	PRE	1 a	89 a	89 a
	PROWL	4.0	PT/A	EPOST			
5	PROWL	4.8	PT/A	PRE	1 a	90 a	94 a
	PROWL	4.8	PT/A	EPOST			
6	PROWL	3.2	PT/A	LOOP	0 b	0 b	0 b
	PROWL	3.2	PT/A	EPOST			
7	PROWL	4.0	PT/A	LOOP	0 b	0 b	0 b
	PROWL	4.0	PT/A	EPOST			
8	PROWL	4.8	PT/A	LOOP	0 b	0 b	0 b
	PROWL	4.8	PT/A	EPOST			
9	PROWL	3.2	PT/A	PRE	0 b	83 a	83 a
	PROWL	3.2	PT/A	EPOST			
	PROWL	3.2	PT/A	LPOST			
10	PROWL	4.0	PT/A	PRE	1 a	90 a	89 a
	PROWL	4.0	PT/A	EPOST			
	PROWL	4.0	PT/A	LPOST			
11	PROWL	4.8	PT/A	PRE	1 a	93 a	94 a
	PROWL	4.8	PT/A	EPOST			
	PROWL	4.8	PT/A	LPOST			
12	PROWL	3.2	PT/A	LOOP	0 b	0 b	0 b
	PROWL	3.2	PT/A	EPOST			
	PROWL	3.2	PT/A	LPOST			
13	PROWL	4.0	PT/A	LOOP	0 b	0 b	0 b
	PROWL	4.0	PT/A	EPOST			
	PROWL	4.0	PT/A	LPOST			
14	PROWL	4.8	PT/A	LOOP	0 b	0 b	0 b
	PROWL	4.8	PT/A	EPOST			
	PROWL	4.8	PT/A	LPOST			
LSD (P=.05)					0.0	27.9	27.9
Standard Deviation					0.0	19.5	19.5
CV					0.0	43.58	43.45

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					POLPY	ALLCE	POROL
Crop Code					ALLCE	ALLCE	ALLCE
Part Rated					CONTROL	2 FEET	CONTROL
Rating Data Type					PERCENT	STAND	PERCENT
Rating Unit					May-17-01	May-21-01	May-31-01
Rating Date					1 LF	1-2 LF	2 LF
Crop Stage					0	0	0
# Subsamples, Dec.							
Trt	Treatment	Product	Product	Grow			
No.	Name	Rate	Rate Unit	Stg	4	5	6
1	WEEDY CONTROL				25 b	43 a	0 d
2	HAND WEEDED CONTROL				74 a	44 a	99 a
3	PROWL	3.2	PT/A	PRE	84 a	44 a	83 ab
	PROWL	3.2	PT/A	EPOST			
4	PROWL	4.0	PT/A	PRE	90 a	44 a	91 a
	PROWL	4.0	PT/A	EPOST			
5	PROWL	4.8	PT/A	PRE	94 a	44 a	94 a
	PROWL	4.8	PT/A	EPOST			
6	PROWL	3.2	PT/A	LOOP	0 b	44 a	38 c
	PROWL	3.2	PT/A	EPOST			
7	PROWL	4.0	PT/A	LOOP	0 b	45 a	59 bc
	PROWL	4.0	PT/A	EPOST			
8	PROWL	4.8	PT/A	LOOP	0 b	44 a	44 c
	PROWL	4.8	PT/A	EPOST			
9	PROWL	3.2	PT/A	PRE	88 a	47 a	83 ab
	PROWL	3.2	PT/A	EPOST			
	PROWL	3.2	PT/A	LPOST			
10	PROWL	4.0	PT/A	PRE	90 a	45 a	93 a
	PROWL	4.0	PT/A	EPOST			
	PROWL	4.0	PT/A	LPOST			
11	PROWL	4.8	PT/A	PRE	95 a	42 a	95 a
	PROWL	4.8	PT/A	EPOST			
	PROWL	4.8	PT/A	LPOST			
12	PROWL	3.2	PT/A	LOOP	0 b	44 a	61 bc
	PROWL	3.2	PT/A	EPOST			
	PROWL	3.2	PT/A	LPOST			
13	PROWL	4.0	PT/A	LOOP	0 b	45 a	46 c
	PROWL	4.0	PT/A	EPOST			
	PROWL	4.0	PT/A	LPOST			
14	PROWL	4.8	PT/A	LOOP	0 b	45 a	59 bc
	PROWL	4.8	PT/A	EPOST			
	PROWL	4.8	PT/A	LPOST			
LSD (P=.05)					27.8	5.1	25.1
Standard Deviation					19.5	3.6	17.6
CV					42.68	8.05	26.1

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code				AMAXX	CHEAL	POLPY	
Crop Code				ALLCE	ALLCE	ALLCE	
Part Rated							
Rating Data Type				CONTROL	CONTROL	CONTROL	
Rating Unit				PERCENT	PERCENT	PERCENT	
Rating Date				May-31-01	May-31-01	May-31-01	
Crop Stage				2 LF	2 LF	2 LF	
# Subsamples, Dec.				0	0	0	
Trt No.	Treatment Name	Product Rate	Product Unit	Grow Stg	7	8	9
1	WEEDY CONTROL				0 e	0 f	0 d
2	HAND WEEDED CONTROL				99 a	99 a	77 a
3	PROWL	3.2	PT/A	PRE	83 abc	21 ef	55 abc
	PROWL	3.2	PT/A	EPOST			
4	PROWL	4.0	PT/A	PRE	88 abc	45 c-f	69 a
	PROWL	4.0	PT/A	EPOST			
5	PROWL	4.8	PT/A	PRE	91 ab	69 a-d	65 ab
	PROWL	4.8	PT/A	EPOST			
6	PROWL	3.2	PT/A	LOOP	50 d	23 def	15 cd
	PROWL	3.2	PT/A	EPOST			
7	PROWL	4.0	PT/A	LOOP	65 cd	59 a-e	19 cd
	PROWL	4.0	PT/A	EPOST			
8	PROWL	4.8	PT/A	LOOP	51 d	40 def	18 cd
	PROWL	4.8	PT/A	EPOST			
9	PROWL	3.2	PT/A	PRE	84 abc	88 abc	66 ab
	PROWL	3.2	PT/A	EPOST			
	PROWL	3.2	PT/A	LPOST			
10	PROWL	4.0	PT/A	PRE	89 abc	48 b-e	68 ab
	PROWL	4.0	PT/A	EPOST			
	PROWL	4.0	PT/A	LPOST			
11	PROWL	4.8	PT/A	PRE	89 abc	93 ab	65 ab
	PROWL	4.8	PT/A	EPOST			
	PROWL	4.8	PT/A	LPOST			
12	PROWL	3.2	PT/A	LOOP	66 bcd	54 a-e	40 a-d
	PROWL	3.2	PT/A	EPOST			
	PROWL	3.2	PT/A	LPOST			
13	PROWL	4.0	PT/A	LOOP	48 d	24 def	24 bcd
	PROWL	4.0	PT/A	EPOST			
	PROWL	4.0	PT/A	LPOST			
14	PROWL	4.8	PT/A	LOOP	64 cd	60 a-e	36 a-d
	PROWL	4.8	PT/A	EPOST			
	PROWL	4.8	PT/A	LPOST			
LSD (P=.05)				25.2	46.6	44.8	
Standard Deviation				17.7	32.6	31.4	
CV				25.62	63.43	71.41	

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.



# The Ohio State University

Weed Code					ALLCE	ALLCE	ALLCE
Crop Code						2 FEET	
Part Rated						STAND	HEIGHT
Rating Data Type					INJURY	COUNT	INCHES
Rating Unit					PERCENT		
Rating Date					May-31-01	Jun-05-01	Jun-05-01
Crop Stage					2 LF	2-LF	2 LF
# Subsamples, Dec.					0	0	0
Trt	Treatment	Product	Product	Grow			
No.	Name	Rate	Rate Unit	Stg	10	11	12
1	WEEDY CONTROL				0 a	42 a	4 a
2	HAND WEEDED CONTROL				0 a	41 a	3 a
3	PROWL	3.2	PT/A	PRE	0 a	44 a	3 a
	PROWL	3.2	PT/A	EPOST			
4	PROWL	4.0	PT/A	PRE	0 a	42 a	4 a
	PROWL	4.0	PT/A	EPOST			
5	PROWL	4.8	PT/A	PRE	0 a	43 a	4 a
	PROWL	4.8	PT/A	EPOST			
6	PROWL	3.2	PT/A	LOOP	0 a	40 a	3 a
	PROWL	3.2	PT/A	EPOST			
7	PROWL	4.0	PT/A	LOOP	0 a	41 a	4 a
	PROWL	4.0	PT/A	EPOST			
8	PROWL	4.8	PT/A	LOOP	0 a	41 a	4 a
	PROWL	4.8	PT/A	EPOST			
9	PROWL	3.2	PT/A	PRE	0 a	45 a	4 a
	PROWL	3.2	PT/A	EPOST			
	PROWL	3.2	PT/A	LPOST			
10	PROWL	4.0	PT/A	PRE	0 a	41 a	3 a
	PROWL	4.0	PT/A	EPOST			
	PROWL	4.0	PT/A	LPOST			
11	PROWL	4.8	PT/A	PRE	0 a	43 a	4 a
	PROWL	4.8	PT/A	EPOST			
	PROWL	4.8	PT/A	LPOST			
12	PROWL	3.2	PT/A	LOOP	0 a	45 a	4 a
	PROWL	3.2	PT/A	EPOST			
	PROWL	3.2	PT/A	LPOST			
13	PROWL	4.0	PT/A	LOOP	0 a	42 a	4 a
	PROWL	4.0	PT/A	EPOST			
	PROWL	4.0	PT/A	LPOST			
14	PROWL	4.8	PT/A	LOOP	0 a	42 a	3 a
	PROWL	4.8	PT/A	EPOST			
	PROWL	4.8	PT/A	LPOST			
LSD (P=.05)					0.0	4.8	0.5
Standard Deviation					0.0	3.4	0.4
CV					0.0	8.03	10.27

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					ALLCE	POROL	AMAXX
Crop Code					ALLCE	ALLCE	ALLCE
Part Rated							
Rating Data Type					INJURY	CONTROL	CONTROL
Rating Unit					PERCENT	PERCENT	PERCENT
Rating Date					Jun-15-01	Jun-15-01	Jun-15-01
Crop Stage					6 INCHES	6 INCHES	6 INCHES
# Subsamples, Dec.					0	0	0
Trt	Treatment	Product	Product	Grow			
No.	Name	Rate	Rate Unit	Stg	13	14	15
1	WEEDY CONTROL				0 a	0 c	0 c
2	HAND WEEDED CONTROL				0 a	0 c	0 c
3	PROWL	3.2	PT/A	PRE	3 a	89 b	86 b
	PROWL	3.2	PT/A	EPOST			
4	PROWL	4.0	PT/A	PRE	1 a	93 ab	96 a
	PROWL	4.0	PT/A	EPOST			
5	PROWL	4.8	PT/A	PRE	4 a	94 ab	98 a
	PROWL	4.8	PT/A	EPOST			
6	PROWL	3.2	PT/A	LOOP	6 a	94 ab	97 a
	PROWL	3.2	PT/A	EPOST			
7	PROWL	4.0	PT/A	LOOP	1 a	96 a	99 a
	PROWL	4.0	PT/A	EPOST			
8	PROWL	4.8	PT/A	LOOP	3 a	95 a	99 a
	PROWL	4.8	PT/A	EPOST			
9	PROWL	3.2	PT/A	PRE	4 a	92 ab	96 a
	PROWL	3.2	PT/A	EPOST			
	PROWL	3.2	PT/A	LPOST			
10	PROWL	4.0	PT/A	PRE	5 a	93 ab	96 a
	PROWL	4.0	PT/A	EPOST			
	PROWL	4.0	PT/A	LPOST			
11	PROWL	4.8	PT/A	PRE	3 a	94 ab	96 a
	PROWL	4.8	PT/A	EPOST			
	PROWL	4.8	PT/A	LPOST			
12	PROWL	3.2	PT/A	LOOP	1 a	94 ab	98 a
	PROWL	3.2	PT/A	EPOST			
	PROWL	3.2	PT/A	LPOST			
13	PROWL	4.0	PT/A	LOOP	4 a	91 ab	97 a
	PROWL	4.0	PT/A	EPOST			
	PROWL	4.0	PT/A	LPOST			
14	PROWL	4.8	PT/A	LOOP	1 a	94 ab	98 a
	PROWL	4.8	PT/A	EPOST			
	PROWL	4.8	PT/A	LPOST			
LSD (P=.05)					4.5	5.7	4.8
Standard Deviation					3.1	4.0	3.4
CV					124.74	4.96	4.07

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					CHEAL	DIGSA	POLPY
Crop Code					ALLCE	ALLCE	ALLCE
Part Rated							
Rating Data Type					CONTROL	CONTROL	CONTROL
Rating Unit					PERCENT	PERCENT	PERCENT
Rating Date					Jun-15-01	Jun-15-01	Jun-15-01
Crop Stage					6 INCHES	6 INCHES	6 INCHES
# Subsamples, Dec.					0	0	0
Trt No.	Treatment Name	Product Rate	Product Unit	Grow Stg	16	17	18
1	WEEDY CONTROL				0 c	0 c	0 c
2	HAND WEEDED CONTROL				0 c	0 c	0 c
3	PROWL	3.2	PT/A	PRE	99 a	93 b	84 ab
	PROWL	3.2	PT/A	EPOST			
4	PROWL	4.0	PT/A	PRE	73 b	97 ab	94 a
	PROWL	4.0	PT/A	EPOST			
5	PROWL	4.8	PT/A	PRE	99 a	97 ab	88 ab
	PROWL	4.8	PT/A	EPOST			
6	PROWL	3.2	PT/A	LOOP	98 a	97 ab	99 a
	PROWL	3.2	PT/A	EPOST			
7	PROWL	4.0	PT/A	LOOP	98 a	99 a	99 a
	PROWL	4.0	PT/A	EPOST			
8	PROWL	4.8	PT/A	LOOP	99 a	97 ab	72 b
	PROWL	4.8	PT/A	EPOST			
9	PROWL	3.2	PT/A	PRE	98 a	95 ab	94 a
	PROWL	3.2	PT/A	EPOST			
	PROWL	3.2	PT/A	LPOST			
10	PROWL	4.0	PT/A	PRE	98 a	97 ab	92 ab
	PROWL	4.0	PT/A	EPOST			
	PROWL	4.0	PT/A	LPOST			
11	PROWL	4.8	PT/A	PRE	99 a	98 a	90 ab
	PROWL	4.8	PT/A	EPOST			
	PROWL	4.8	PT/A	LPOST			
12	PROWL	3.2	PT/A	LOOP	99 a	98 a	95 a
	PROWL	3.2	PT/A	EPOST			
	PROWL	3.2	PT/A	LPOST			
13	PROWL	4.0	PT/A	LOOP	99 a	99 a	94 a
	PROWL	4.0	PT/A	EPOST			
	PROWL	4.0	PT/A	LPOST			
14	PROWL	4.8	PT/A	LOOP	99 a	99 a	96 a
	PROWL	4.8	PT/A	EPOST			
	PROWL	4.8	PT/A	LPOST			
LSD (P=.05)					18.7	4.4	20.4
Standard Deviation					13.1	3.1	14.3
CV					15.84	3.72	18.31

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					GASCI	POROL	POROL
Crop Code					ALLCE	ALLCE	ALLCE
Part Rated					CONTROL	COTY	C- 1/2
Rating Data Type					WEED	WEED	WEED
Rating Unit					PERCENT	COUNT	COUNT
Rating Date					Jun-15-01	Jun-22-01	Jun-22-01
Crop Stage					6 INCHES	6-8"	6-8"
# Subsamples, Dec.					0	0	0
Trt	Treatment	Product	Product	Grow			
No.	Name	Rate	Rate Unit	Stg	19	20	21
1	WEEDY CONTROL				99 a	1 a	12 a
2	HAND WEEDED CONTROL				99 a	13 a	2 b
3	PROWL	3.2	PT/A	PRE	97 a	24 a	3 b
	PROWL	3.2	PT/A	EPOST			
4	PROWL	4.0	PT/A	PRE	99 a	15 a	4 b
	PROWL	4.0	PT/A	EPOST			
5	PROWL	4.8	PT/A	PRE	99 a	11 a	2 b
	PROWL	4.8	PT/A	EPOST			
6	PROWL	3.2	PT/A	LOOP	99 a	20 a	1 b
	PROWL	3.2	PT/A	EPOST			
7	PROWL	4.0	PT/A	LOOP	99 a	12 a	3 b
	PROWL	4.0	PT/A	EPOST			
8	PROWL	4.8	PT/A	LOOP	99 a	27 a	1 b
	PROWL	4.8	PT/A	EPOST			
9	PROWL	3.2	PT/A	PRE	97 a	17 a	1 b
	PROWL	3.2	PT/A	EPOST			
	PROWL	3.2	PT/A	LPOST			
10	PROWL	4.0	PT/A	PRE	99 a	24 a	2 b
	PROWL	4.0	PT/A	EPOST			
	PROWL	4.0	PT/A	LPOST			
11	PROWL	4.8	PT/A	PRE	97 a	7 a	1 b
	PROWL	4.8	PT/A	EPOST			
	PROWL	4.8	PT/A	LPOST			
12	PROWL	3.2	PT/A	LOOP	99 a	12 a	1 b
	PROWL	3.2	PT/A	EPOST			
	PROWL	3.2	PT/A	LPOST			
13	PROWL	4.0	PT/A	LOOP	99 a	9 a	1 b
	PROWL	4.0	PT/A	EPOST			
	PROWL	4.0	PT/A	LPOST			
14	PROWL	4.8	PT/A	LOOP	99 a	14 a	1 b
	PROWL	4.8	PT/A	EPOST			
	PROWL	4.8	PT/A	LPOST			
LSD (P=.05)					3.0	21.9	3.3
Standard Deviation					2.1	15.4	2.3
CV					2.1	105.52	100.54

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					POROL	AMAXX	AMAXX	AMAXX
Crop Code					ALLCE	ALLCE	ALLCE	ALLCE
Part Rated					>1/2	COTY	C- 1/2	>1/2
Rating Data Type					WEED	WEED	WEED	WEED
Rating Unit					COUNT	COUNT	COUNT	COUNT
Rating Date					Jun-22-01	Jun-22-01	Jun-22-01	Jun-22-01
Crop Stage					6-8"	6-8"	6-8"	6-8"
# Subsamples, Dec.					0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Unit	Grow Stg	22	23	24	25
1	WEEDY CONTROL				20 a	0 a	0 a	9 a
2	HAND WEEDED CONTROL				1 b	3 a	0 a	0 b
3	PROWL	3.2	PT/A	PRE	2 b	5 a	2 a	3 b
	PROWL	3.2	PT/A	EPOST				
4	PROWL	4.0	PT/A	PRE	3 b	2 a	0 a	0 b
	PROWL	4.0	PT/A	EPOST				
5	PROWL	4.8	PT/A	PRE	1 b	3 a	1 a	1 b
	PROWL	4.8	PT/A	EPOST				
6	PROWL	3.2	PT/A	LOOP	2 b	8 a	2 a	1 b
	PROWL	3.2	PT/A	EPOST				
7	PROWL	4.0	PT/A	LOOP	1 b	2 a	0 a	0 b
	PROWL	4.0	PT/A	EPOST				
8	PROWL	4.8	PT/A	LOOP	2 b	1 a	1 a	0 b
	PROWL	4.8	PT/A	EPOST				
9	PROWL	3.2	PT/A	PRE	1 b	2 a	1 a	1 b
	PROWL	3.2	PT/A	EPOST				
	PROWL	3.2	PT/A	LPOST				
10	PROWL	4.0	PT/A	PRE	0 b	3 a	0 a	1 b
	PROWL	4.0	PT/A	EPOST				
	PROWL	4.0	PT/A	LPOST				
11	PROWL	4.8	PT/A	PRE	1 b	2 a	0 a	0 b
	PROWL	4.8	PT/A	EPOST				
	PROWL	4.8	PT/A	LPOST				
12	PROWL	3.2	PT/A	LOOP	0 b	1 a	1 a	0 b
	PROWL	3.2	PT/A	EPOST				
	PROWL	3.2	PT/A	LPOST				
13	PROWL	4.0	PT/A	LOOP	1 b	3 a	1 a	0 b
	PROWL	4.0	PT/A	EPOST				
	PROWL	4.0	PT/A	LPOST				
14	PROWL	4.8	PT/A	LOOP	0 b	2 a	1 a	1 b
	PROWL	4.8	PT/A	EPOST				
	PROWL	4.8	PT/A	LPOST				
LSD (P=.05)					3.8	5.4	1.7	3.1
Standard Deviation					2.6	3.8	1.2	2.2
CV					116.63	143.96	173.46	186.65

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					DIGSA	DIGSA	DIGSA
Crop Code					ALLCE	ALLCE	ALLCE
Part Rated					COTY	C- 1/2	>1/2
Rating Data Type					WEED	WEED	WEED
Rating Unit					COUNT	COUNT	COUNT
Rating Date					Jun-22-01	Jun-22-01	Jun-22-01
Crop Stage					6-8"	6-8"	6-8"
# Subsamples, Dec.					0	0	0
Trt No.	Treatment Name	Product Rate	Product Unit	Grow Stg	26	27	28
1	WEEDY CONTROL				0 a	0 a	0 b
2	HAND WEEDED CONTROL				0 a	0 a	0 b
3	PROWL	3.2	PT/A	PRE	0 a	0 a	0 b
	PROWL	3.2	PT/A	EPOST			
4	PROWL	4.0	PT/A	PRE	0 a	0 a	0 b
	PROWL	4.0	PT/A	EPOST			
5	PROWL	4.8	PT/A	PRE	1 a	0 a	0 b
	PROWL	4.8	PT/A	EPOST			
6	PROWL	3.2	PT/A	LOOP	1 a	1 a	0 b
	PROWL	3.2	PT/A	EPOST			
7	PROWL	4.0	PT/A	LOOP	0 a	0 a	0 b
	PROWL	4.0	PT/A	EPOST			
8	PROWL	4.8	PT/A	LOOP	0 a	0 a	1 b
	PROWL	4.8	PT/A	EPOST			
9	PROWL	3.2	PT/A	PRE	1 a	0 a	1 b
	PROWL	3.2	PT/A	EPOST			
	PROWL	3.2	PT/A	LPOST			
10	PROWL	4.0	PT/A	PRE	0 a	0 a	2 a
	PROWL	4.0	PT/A	EPOST			
	PROWL	4.0	PT/A	LPOST			
11	PROWL	4.8	PT/A	PRE	0 a	0 a	0 b
	PROWL	4.8	PT/A	EPOST			
	PROWL	4.8	PT/A	LPOST			
12	PROWL	3.2	PT/A	LOOP	1 a	0 a	0 b
	PROWL	3.2	PT/A	EPOST			
	PROWL	3.2	PT/A	LPOST			
13	PROWL	4.0	PT/A	LOOP	0 a	0 a	0 b
	PROWL	4.0	PT/A	EPOST			
	PROWL	4.0	PT/A	LPOST			
14	PROWL	4.8	PT/A	LOOP	0 a	0 a	0 b
	PROWL	4.8	PT/A	EPOST			
	PROWL	4.8	PT/A	LPOST			
LSD (P=.05)					1.1	0.5	0.8
Standard Deviation					0.7	0.3	0.6
CV					345.34	467.95	247.85

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					ALLCE	DIGSA	POROL
Crop Code					ALLCE	ALLCE	ALLCE
Part Rated							
Rating Data Type					INJURY	CONTROL	CONTROL
Rating Unit					PERCENT	PERCENT	PERCENT
Rating Date					Jul-05-01	Jul-05-01	Jul-05-01
Crop Stage					PRE-HAR	PRE-HAR	PRE-HAR
# Subsamples, Dec.					0	0	0
Trt	Treatment	Product	Product	Grow			
No.	Name	Rate	Rate Unit	Stg	29	30	31
1	WEEDY CONTROL				0 a	0 c	0 e
2	HAND WEEDED CONTROL				0 a	71 b	79 c
3	PROWL	3.2	PT/A	PRE	0 a	99 a	53 d
	PROWL	3.2	PT/A	EPOST			
4	PROWL	4.0	PT/A	PRE	0 a	98 a	78 c
	PROWL	4.0	PT/A	EPOST			
5	PROWL	4.8	PT/A	PRE	0 a	92 a	83 abc
	PROWL	4.8	PT/A	EPOST			
6	PROWL	3.2	PT/A	LOOP	0 a	87 ab	78 c
	PROWL	3.2	PT/A	EPOST			
7	PROWL	4.0	PT/A	LOOP	0 a	99 a	81 bc
	PROWL	4.0	PT/A	EPOST			
8	PROWL	4.8	PT/A	LOOP	0 a	94 a	84 abc
	PROWL	4.8	PT/A	EPOST			
9	PROWL	3.2	PT/A	PRE	0 a	86 ab	95 a
	PROWL	3.2	PT/A	EPOST			
	PROWL	3.2	PT/A	LPOST			
10	PROWL	4.0	PT/A	PRE	0 a	97 a	90 abc
	PROWL	4.0	PT/A	EPOST			
	PROWL	4.0	PT/A	LPOST			
11	PROWL	4.8	PT/A	PRE	0 a	94 a	93 ab
	PROWL	4.8	PT/A	EPOST			
	PROWL	4.8	PT/A	LPOST			
12	PROWL	3.2	PT/A	LOOP	0 a	93 a	89 abc
	PROWL	3.2	PT/A	EPOST			
	PROWL	3.2	PT/A	LPOST			
13	PROWL	4.0	PT/A	LOOP	0 a	97 a	93 ab
	PROWL	4.0	PT/A	EPOST			
	PROWL	4.0	PT/A	LPOST			
14	PROWL	4.8	PT/A	LOOP	0 a	99 a	95 a
	PROWL	4.8	PT/A	EPOST			
	PROWL	4.8	PT/A	LPOST			
LSD (P=.05)					0.0	19.1	13.2
Standard Deviation					0.0	13.3	9.2
CV					0.0	15.49	11.9

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					AMAXX	GASCI	
Crop Code					ALLCE	ALLCE	ALLCE
Part Rated							
Rating Data Type					CONTROL	CONTROL	STAND
Rating Unit					PERCENT	PERCENT	PER 10'
Rating Date					Jul-05-01	Jul-05-01	Jul-17-01
Crop Stage					PRE-HAR	PRE-HAR	HARVEST
# Subsamples, Dec.					0	0	0
Trt	Treatment	Product	Product	Grow			
No.	Name	Rate	Rate Unit	Stg	32	33	34
1	WEEDY CONTROL				25 b	0 b	149 b
2	HAND WEEDED CONTROL				86 a	99 a	240 a
3	PROWL	3.2	PT/A	PRE	38 b	99 a	247 a
	PROWL	3.2	PT/A	EPOST			
4	PROWL	4.0	PT/A	PRE	84 a	99 a	237 a
	PROWL	4.0	PT/A	EPOST			
5	PROWL	4.8	PT/A	PRE	84 a	99 a	244 a
	PROWL	4.8	PT/A	EPOST			
6	PROWL	3.2	PT/A	LOOP	81 a	99 a	250 a
	PROWL	3.2	PT/A	EPOST			
7	PROWL	4.0	PT/A	LOOP	83 a	99 a	237 a
	PROWL	4.0	PT/A	EPOST			
8	PROWL	4.8	PT/A	LOOP	85 a	99 a	254 a
	PROWL	4.8	PT/A	EPOST			
9	PROWL	3.2	PT/A	PRE	94 a	96 a	282 a
	PROWL	3.2	PT/A	EPOST			
	PROWL	3.2	PT/A	LPOST			
10	PROWL	4.0	PT/A	PRE	84 a	97 a	260 a
	PROWL	4.0	PT/A	EPOST			
	PROWL	4.0	PT/A	LPOST			
11	PROWL	4.8	PT/A	PRE	70 a	96 a	241 a
	PROWL	4.8	PT/A	EPOST			
	PROWL	4.8	PT/A	LPOST			
12	PROWL	3.2	PT/A	LOOP	93 a	97 a	280 a
	PROWL	3.2	PT/A	EPOST			
	PROWL	3.2	PT/A	LPOST			
13	PROWL	4.0	PT/A	LOOP	91 a	99 a	252 a
	PROWL	4.0	PT/A	EPOST			
	PROWL	4.0	PT/A	LPOST			
14	PROWL	4.8	PT/A	LOOP	96 a	99 a	279 a
	PROWL	4.8	PT/A	EPOST			
	PROWL	4.8	PT/A	LPOST			
LSD (P=.05)					28.3	4.0	47.4
Standard Deviation					19.8	2.8	33.2
CV					25.42	3.06	13.45

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.



# The Ohio State University

Weed Code					ALLCE	ALLCE
Crop Code					ALLCE	ALLCE
Part Rated						
Rating Data Type					WEIGHT	HEIGHT
Rating Unit					LBS/10'	INCHES
Rating Date					Jul-17-01	Jul-17-01
Crop Stage					HARVEST	HARVEST
# Subsamples, Dec.						0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	35	36
1	WEEDY CONTROL				1.250 e	12 c
2	HAND WEEDED CONTROL				8.705 cd	21 ab
3	PROWL	3.2	PT/A	PRE	8.280 d	21 ab
	PROWL	3.2	PT/A	EPOST		
4	PROWL	4.0	PT/A	PRE	9.705 a-d	20 ab
	PROWL	4.0	PT/A	EPOST		
5	PROWL	4.8	PT/A	PRE	8.892 bcd	21 ab
	PROWL	4.8	PT/A	EPOST		
6	PROWL	3.2	PT/A	LOOP	10.405 abc	18 b
	PROWL	3.2	PT/A	EPOST		
7	PROWL	4.0	PT/A	LOOP	9.655 a-d	21 ab
	PROWL	4.0	PT/A	EPOST		
8	PROWL	4.8	PT/A	LOOP	9.480 a-d	21 ab
	PROWL	4.8	PT/A	EPOST		
9	PROWL	3.2	PT/A	PRE	10.905 a	21 ab
	PROWL	3.2	PT/A	EPOST		
	PROWL	3.2	PT/A	LPOST		
10	PROWL	4.0	PT/A	PRE	10.930 a	20 ab
	PROWL	4.0	PT/A	EPOST		
	PROWL	4.0	PT/A	LPOST		
11	PROWL	4.8	PT/A	PRE	10.605 ab	22 ab
	PROWL	4.8	PT/A	EPOST		
	PROWL	4.8	PT/A	LPOST		
12	PROWL	3.2	PT/A	LOOP	11.275 a	21 ab
	PROWL	3.2	PT/A	EPOST		
	PROWL	3.2	PT/A	LPOST		
13	PROWL	4.0	PT/A	LOOP	10.425 abc	22 a
	PROWL	4.0	PT/A	EPOST		
	PROWL	4.0	PT/A	LPOST		
14	PROWL	4.8	PT/A	LOOP	10.450 abc	21 ab
	PROWL	4.8	PT/A	EPOST		
	PROWL	4.8	PT/A	LPOST		
LSD (P=.05)					1.8396	4.0
Standard Deviation					1.2873	2.8
CV					13.76	14.06

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

## POTATO CULTIVATION STUDY

Trial ID: POTCULTW 2001  
Location: WOOSTER

Study Dir.: DR .DOUGLAS DOOHAN AND T.KOCH  
Investigator: DR. DOUGLAS J. DOOHAN

### GENERAL TRIAL INFORMATION

**Study Director:** DR .DOUGLAS DOOHAN AND T.KOCH **Title:** ASST.PROFESSOR  
**Affiliation:** OARDC/THE OHIO STATE UNIVERSITY  
**Postal Code:** 44691  
**Investigator:** DR. DOUGLAS J. DOOHAN **Title:** ASST.PROFESSOR  
**Affiliation:** OARDC/THE OHIO STATE UNIVERSITY  
**Postal Code:** 44691

### TRIAL LOCATION

**City:** WOOSTER **Trial Status:** COMPLETE  
**State/Prov.:** OHIO **Trial Reliability:** RELIABLE  
**Postal Code:** 44691 **Initiation Date:** May-14-01  
**Country:** USA **Planned Completion Date:** Sep-28-01  
**Directions:** LOCATED AT UNIT #1 HORTICULTURE FARM ON SR 250 JUST EAST OF THE MAIN CAMPUS OF OARDC.

**Conducted Under GLP (Y/N):** N

**Conducted Under GEP (Y/N):** N

**Objective:** TO DETERMINE RELATIVE EFFECTIVNESS OF CULTIVATION ( WITH OR WITHOUT HERBICIDE ) AT ZERO, FIFTEEN, THIRTY, AND SIXTY PERCENT EMERGENCE FOR CONTROL OF COMMON LAMBSQUARTERS AND TO EVALUATE PREDICTION ACCURACY OF " WEEDCAST " FOR THIS SPECIES IN ND., OH., AND PA.

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	SETFA	GIANT FOXTAIL	SETARIA FABERI HERRM.
2.	AMAXX	PIGWEEED SPECIES	AMARANTHUS SPP.
3.	CHEAL	COMMON LAMBSQUARTER	CHENOPODIUM ALBUM L.

**Crop 1:** SOLTU POTATO

**Variety:** SNOWDEN

**Planting Date:** May-14-01

**Planting Method:** CONVENTIONAL

**Rate:** 15 CWT./A

**Depth:** 3 "

**Row Spacing:** 36 "

**Seed Bed:** CONVENTIONAL

**Soil Temperature:** 45

**F Soil Moisture:** MOIST

**Emergence Date:** Jun-14-01

### SITE AND DESIGN

**Plot Width, Unit:** 10 FT

**Plot Length, Unit:** 20 FT

**Reps:** 4

**Site Type:** LEVEL FIELD

**Tillage Type:** CONVENTIONAL

**Study Design:** SPLIT-PLOT

### MAINTENANCE

**Field Prep./Maintenance:** FIELD PREP./MAINTENANCE: PLOWED & DISKED EARLY MAY . PLANTED, FERTILIZED WITH 10-20-20 @ 600#/A, ( PRE-PLANT) ON MAY 14, 2001. "ADMIRE", (INSECTICIDE FOR FLEA BEETLE/CPB) APPLIED AT PLANTING @ 1 PT./A, AS WELL AS 600# 10-20-20 IN THE FURROW. SPRAYED DUAL 2 MAGNUM/SENCOR ON DESIGNATED PLOTS.

DITHANE/MANCOZEB WERE USED FOR DISEASE CONTROL THRU THE SUMMER , AND BAYTHROID/ THIODAN FOR INSECT CONTROL.

# The Ohio State University

## SOIL DESCRIPTION

% Sand: 11	% OM: 3	Texture: SILT LOAM
% Silt: 75	pH: 6.0	Soil Name: WOOSTER SILT LOAM
% Clay: 14	CEC: 13	Fert. Level: MODERATE

## APPLICATION DESCRIPTION

	A
Application Date:	May-14-01
Time of Day:	3-4PM
Application Method:	SPRAY
Application Timing:	PREEM
Applic. Placement:	BDCST
Air Temp., Unit:	66 F
% Relative Humidity:	58
Wind Velocity, Unit:	2 MPH
Dew Presence (Y/N):	N
Soil Moisture:	MOIST
% Cloud Cover:	30

## CROP STAGE AT EACH APPLICATION

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

## WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	SETFA .
Stage Scale:	.
Density, Unit:	. .
Weed 2 Code, Stage:	AMAXX .
Stage Scale:	.
Density, Unit:	. .
Weed 3 Code, Stage:	CHEAL .
Stage Scale:	.
Density, Unit:	. .

# The Ohio State University

## APPLICATION EQUIPMENT

	A
Appl. Equipment:	CO2 PLOT
Operating Pressure:	35 PSI
Nozzle Type:	FFAN
Nozzle Size:	8002VS
Nozzle Spacing, Unit:	12 "
Nozzles/Row:	10
Band Width, Unit:	10 FT
Boom Height, Unit:	18 "
Ground Speed, Unit:	4 MPH
Carrier:	WATER
Spray Volume, Unit:	20 GPA
Propellant:	CO2

# The Ohio State University

## POTATO CULTIVATION STUDY

Trial ID: POTCULTW 2001  
Location: WOOSTER

Study Dir.: DR .DOUGLAS DOOHAN AND T.KOCH  
Investigator: DR. DOUGLAS J. DOOHAN

### Trial Comments

DATA WAS TAKEN FROM THE 2 CENTER ROWS (20') LONG . WEED COUNTS CONSISTED OF THREE RANDOM . QUADRATS ( 25 X 25 CM. ), PER PLOT IN PLOT CENTER..YIELDS WERE TAKEN IN LBS. AND FROM THE 2 CENTER ROWS OF A 4 ROW PLOT.

POTATOES WERE GRADED USING THE " CHIPPING (ROUND) POTATO GRADE AND YIELD EVALUATION GUIDELINES PROOCOLS NA98P2D008 AND NA98 M2A016 "

THE MARKETABLE GRADE POTATOES WERE SEPERATED BY SIZE (DIAMETER) INTO AN "A" OR "B" CLASS;

"A"= GREATER THAN 3.25"

"B"= 1.78 " TO 3.25 "

" CULLS " = WERE MISSHAPEN, DISEASED ,OR OTHERWISE NOT MARKETABLE

THE "WEEDCAST " MODEL WAS USED TO PREDICT LAMBSQUARTERS GERMINATION . PLOTS WERE CULTIVATED

AT ( 15 ) , ( 30 ) , OR ( 60 % ) GERMINATION . TREATMENTS # 3 , #4 , # 5 , AND # 6 , WERE CULTIVATED ON MAY 30,2001 .

TREATMENTS # 3 AND # 4 WERE CULTIVATED AGAIN ON JUNE 12 , 2001 , WHEN 15 % GERMINATION WAS PREDICTED AGAIN. TREATMENTS #7 AND #8 WERE CULTIVATED ON JUNE 8 ,2001 WHEN 60% GERMINATION WAS PREDICTED . ALL PLOTS WERE HILLED ON JUNE 29,2001.

# The Ohio State University

POTATO CULTIVATION STUDY								
Trial ID: POTCULTW 2001		Study Dir.: DR .DOUGLAS DOOHAN AND T.KOCH						
Location: WOOSTER		Investigator: DR. DOUGLAS J. DOOHAN						
Weed Code		CHEAL	AMAXX	CHEAL	AMAXX			
Crop Code		SOLTU	SOLTU	SOLTU	SOLTU			
Rating Data Type		WEED	WEED	WEED	WEED			
Rating Unit		COUNTS	COUNTS	COUNTS	COUNTS			
Rating Date		May-25-01	May-25-01	May-29-01	May-29-01			
Crop Stage								
# Subsamples, Dec.		0	0	0	0			
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4
1	NO CULTIVATION NO HERBICIDE				5 ab	0 a	1 a	9 a
2	NO CULTIVATION SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 c	0 a	0 a	6 a
3	CULTIVATION AT 15% LQ. EMERGENCE				8 a	0 a	0 a	9 a
4	CULT.AT 15% LQ.EMERG. + SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 c	0 a	0 a	5 a
5	CULTIVATION AT 30% LQ. EMERGENCE				5 ab	0 a	0 a	8 a
6	CULT.AT 30% LQ.EMERG. + SENCOR+ DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 c	0 a	0 a	0 a
7	CULTIVATION AT 60% LQ. EMERGENCE				3 bc	0 a	0 a	8 a
8	CULT.AT 60% LQ. EMERG. + SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 c	0 a	0 a	1 a
LSD (P=.05)					3.6	0.0	0.6	11.2
Standard Deviation					2.5	0.0	0.4	7.6
CV					93.96	0.0	338.06	136.46

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					CHEAL	AMAXX	CHEAL	AMAXX
Crop Code					SOLTU	SOLTU	SOLTU	SOLTU
Rating Data Type					WEED	WEED	WEED	WEED
Rating Unit					COUNTS	COUNTS	COUNTS	COUNTS
Rating Date					Jun-01-01	Jun-01-01	Jun-04-01	Jun-04-01
Crop Stage								
# Subsamples, Dec.					0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	5	6	7	8
1	NO CULTIVATION NO HERBICIDE				0 a	12 a	0 a	14 a
2	NO CULTIVATION SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 a	0 b	0 a	0 bc
3	CULTIVATION AT 15% LQ. EMERGENCE				0 a	1 b	0 a	0 c
4	CULT.AT 15% LQ,.EMERG. + SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 a	0 b	0 a	2 bc
5	CULTIVATION AT 30% LQ. EMERGENCE				0 a	1 b	0 a	0 bc
6	CULT.AT 30% LQ.EMERG. + SENCOR+ DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 a	0 b	0 a	0 c
7	CULTIVATION AT 60% LQ. EMERGENCE				0 a	11 a	0 a	7 ab
8	CULT.AT 60% LQ. EMERG. + SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 a	0 b	0 a	0 c
LSD (P=.05)					0.4	6.5	0.3	7.0
Standard Deviation					0.3	4.4	0.2	4.8
CV					409.41	146.06	565.69	162.52

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					CHEAL	AMAXX	CHEAL	AMAXX
Crop Code					SOLTU	SOLTU	SOLTU	SOLTU
Rating Data Type					WEED	WEED	WEED	WEED
Rating Unit					COUNTS	COUNTS	COUNTS	COUNTS
Rating Date					Jun-08-01	Jun-08-01	Jun-12-01	Jun-12-01
Crop Stage								
# Subsamples, Dec.					0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	9	10	11	12
1	NO CULTIVATION NO HERBICIDE				0 a	7 a	0 a	8 a
2	NO CULTIVATION SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 a	0 b	0 a	0 d
3	CULTIVATION AT 15% LQ. EMERGENCE				0 a	0 b	2 a	4 b
4	CULT.AT 15% LQ.,EMERG. + SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 a	0 b	1 a	0 cd
5	CULTIVATION AT 30% LQ. EMERGENCE				0 a	0 b	0 a	3 bc
6	CULT.AT 30% LQ.EMERG. + SENCOR+ DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 a	0 b	0 a	0 d
7	CULTIVATION AT 60% LQ. EMERGENCE				0 a	6 a	0 a	0 d
8	CULT.AT 60% LQ. EMERG. + SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 a	0 b	0 a	0 d
LSD (P=.05)					0.3	3.7	1.4	3.2
Standard Deviation					0.2	2.5	1.0	2.1
CV					565.69	169.19	255.31	116.21

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.



# The Ohio State University

Weed Code					CHEAL	AMAXX	CHEAL	AMAXX
Crop Code					SOLTU	SOLTU	SOLTU	SOLTU
Rating Data Type					WEED	WEED	WEED	WEED
Rating Unit					COUNTS	COUNTS	COUNTS	COUNTS
Rating Date					Jun-15-01	Jun-15-01	Jun-18-01	Jun-18-01
Crop Stage								
# Subsamples, Dec.					0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16
1	NO CULTIVATION NO HERBICIDE				0 b	7 a	0 a	9 a
2	NO CULTIVATION SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 b	0 b	0 a	0 b
3	CULTIVATION AT 15% LQ. EMERGENCE				0 b	0 b	0 a	0 b
4	CULT.AT 15% LQ.,EMERG. + SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 b	0 b	0 a	0 b
5	CULTIVATION AT 30% LQ. EMERGENCE				1 a	1 b	0 a	1 b
6	CULT.AT 30% LQ.EMERG. + SENCOR+ DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 b	0 b	0 a	1 b
7	CULTIVATION AT 60% LQ. EMERGENCE				0 b	0 b	0 a	0 b
8	CULT.AT 60% LQ. EMERG. + SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 b	0 b	0 a	0 b
LSD (P=.05)					0.4	4.2	0.3	3.4
Standard Deviation					0.3	2.8	0.2	2.3
CV					230.94	244.73	565.69	172.37

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					CHEAL	AMAXX	CHEAL	AMAXX
Crop Code					SOLTU	SOLTU	SOLTU	SOLTU
Rating Data Type					WEED	WEED	CONTROL	CONTROL
Rating Unit					COUNTS	COUNTS	PERCENT	PERCENT
Rating Date					Jun-21-01	Jun-21-01	Jun-26-01	Jun-26-01
Crop Stage								
# Subsamples, Dec.					0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	17	18	19	20
1	NO CULTIVATION NO HERBICIDE				0 a	19 a	0 c	0 c
2	NO CULTIVATION SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 a	0 b	100 a	100 a
3	CULTIVATION AT 15% LQ. EMERGENCE				0 a	0 b	97 a	90 a
4	CULT.AT 15% LQ.,EMERG. + SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 a	0 b	100 a	100 a
5	CULTIVATION AT 30% LQ. EMERGENCE				0 a	6 b	98 a	64 b
6	CULT.AT 30% LQ.EMERG. + SENCOR+ DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 a	0 b	100 a	98 a
7	CULTIVATION AT 60% LQ. EMERGENCE				0 a	2 b	71 b	60 b
8	CULT.AT 60% LQ. EMERG. + SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 a	0 b	100 a	96 a
LSD (P=.05)					0.0	7.9	15.6	12.5
Standard Deviation					0.0	5.4	10.6	8.5
CV					0.0	158.34	12.71	11.21

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					CHEAL	AMAXX	CHEAL	AMAXX
Crop Code					SOLTU	SOLTU	SOLTU	SOLTU
Rating Data Type					WEED	WEED	WEED	WEED
Rating Unit					COUNTS	COUNTS	COUNTS	COUNTS
Rating Date					Jun-26-01	Jun-26-01	Jul-20-01	Jul-20-01
Crop Stage								
# Subsamples, Dec.					0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	21	22	23	24
1	NO CULTIVATION NO HERBICIDE				0 a	15 a	0 a	0 a
2	NO CULTIVATION SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 a	0 c	0 a	2 a
3	CULTIVATION AT 15% LQ. EMERGENCE				0 a	1 bc	1 a	1 a
4	CULT.AT 15% LQ,.EMERG. + SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 a	0 c	0 a	0 a
5	CULTIVATION AT 30% LQ. EMERGENCE				0 a	6 b	0 a	0 a
6	CULT.AT 30% LQ.EMERG. + SENCOR+ DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 a	1 bc	0 a	0 a
7	CULTIVATION AT 60% LQ. EMERGENCE				0 a	3 bc	0 a	0 a
8	CULT.AT 60% LQ. EMERG. + SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 a	1 bc	0 a	0 a
LSD (P=.05)					0.0	5.7	0.6	2.2
Standard Deviation					0.0	3.9	0.4	1.5
CV					0.0	125.06	338.06	359.96

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					CHEAL	AMAXX		CHEAL
Crop Code					SOLTU	SOLTU	SOLTU	SOLTU
Rating Data Type					WEED	WEED	HEIGHTS	CONTROL
Rating Unit					COUNTS	COUNTS	CM.	PERCENT
Rating Date					Aug-02-01	Aug-02-01	Aug-02-01	Aug-02-01
Crop Stage								
# Subsamples, Dec.					0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	25	26	27	28
1	NO CULTIVATION NO HERBICIDE				0 a	12 a	23 cd	25 c
2	NO CULTIVATION SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 a	0 b	23 d	99 a
3	CULTIVATION AT 15% LQ. EMERGENCE				0 a	2 b	25 abc	65 b
4	CULT.AT 15% LQ.,EMERG. + SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 a	0 b	24 bcd	99 a
5	CULTIVATION AT 30% LQ. EMERGENCE				0 a	4 b	24 a-d	82 ab
6	CULT.AT 30% LQ.EMERG. + SENCOR+ DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 a	0 b	25 ab	99 a
7	CULTIVATION AT 60% LQ. EMERGENCE				0 a	1 b	25 ab	57 b
8	CULT.AT 60% LQ. EMERG. + SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	0 a	0 b	26 a	99 a
LSD (P=.05)					0.0	5.4	2.0	27.0
Standard Deviation					0.0	3.6	1.3	18.3
CV					0.0	159.82	5.54	23.47

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					AMAXX	CHEAL	AMAXX
Crop Code					SOLTU	SOLTU	SOLTU
Rating Data Type					CONTROL	CONTROL	CONTROL
Rating Unit					PERCENT	PERCENT	PERCENT
Rating Date					Aug-02-01	Aug-28-01	Aug-28-01
Crop Stage							
# Subsamples, Dec.					0	0	0
Trt	Treatment	Product	Product	Grow			
No.	Name	Rate	Rate Unit	Stg	29	30	31
1	NO CULTIVATION NO HERBICIDE				33 b	77 b	23 e
2	NO CULTIVATION SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	99 a	99 a	98 a
3	CULTIVATION AT 15% LQ. EMERGENCE				28 b	79 b	53 cd
4	CULT.AT 15% LQ,.EMERG. + SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	99 a	99 a	92 a
5	CULTIVATION AT 30% LQ. EMERGENCE				40 b	99 a	65 bc
6	CULT.AT 30% LQ.EMERG. + SENCOR+ DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	97 a	97 a	89 ab
7	CULTIVATION AT 60% LQ. EMERGENCE				38 b	80 b	33 de
8	CULT.AT 60% LQ. EMERG. + SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	98 a	99 a	96 a
LSD (P=.05)					23.1	16.8	26.8
Standard Deviation					15.7	11.4	18.2
CV					23.69	12.56	26.66

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					SETFA		
Crop Code					SOLTU	SOLTU	SOLTU
Rating Data Type					CONTROL	INJURY	"A " 'S
Rating Unit					PERCENT	PERCENT	POUNDS
Rating Date					Aug-28-01	Aug-28-01	Sep-26-01
Crop Stage							HARVEST
# Subsamples, Dec.					0	0	
Trt	Treatment	Product	Product	Grow			
No.	Name	Rate	Rate Unit	Stg	32	33	34
1	NO CULTIVATION NO HERBICIDE				68 d	0 a	27.70 c
2	NO CULTIVATION SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	99 a	4 a	66.22 ab
3	CULTIVATION AT 15% LQ. EMERGENCE				90 ab	0 a	61.63 b
4	CULT.AT 15% LQ,.EMERG. + SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	98 a	0 a	83.20 a
5	CULTIVATION AT 30% LQ. EMERGENCE				80 bc	1 a	52.60 b
6	CULT.AT 30% LQ.EMERG. + SENCOR+ DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	95 a	5 a	61.65 b
7	CULTIVATION AT 60% LQ. EMERGENCE				74 cd	0 a	55.27 b
8	CULT.AT 60% LQ. EMERG. + SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	96 a	9 a	79.38 a
LSD (P=.05)					11.6	6.1	17.501
Standard Deviation					7.9	4.2	11.899
CV					9.07	178.22	19.52

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					SOLTU	SOLTU
Crop Code					"B " 'S	CULLS
Rating Data Type					POUNDS	POUNDS
Rating Unit					Sep-26-01	Sep-26-01
Rating Date					HARVEST	HARVEST
Crop Stage						
# Subsamples, Dec.						
Trt	Treatment	Product	Product	Grow		
No.	Name	Rate	Rate Unit	Stg	35	36
1	NO CULTIVATION NO HERBICIDE				3.15 c	6.15 c
2	NO CULTIVATION SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	5.85 a	17.55 a
3	CULTIVATION AT 15% LQ. EMERGENCE				3.03 c	10.85 bc
4	CULT.AT 15% LQ,.EMERG. + SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	4.88 ab	15.58 ab
5	CULTIVATION AT 30% LQ. EMERGENCE				3.00 c	9.70 c
6	CULT.AT 30% LQ.EMERG. + SENCOR+ DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	4.65 ab	18.73 a
7	CULTIVATION AT 60% LQ. EMERGENCE				3.78 bc	9.92 c
8	CULT.AT 60% LQ. EMERG. + SENCOR + DUAL	0.595 LB/A 1.57 PT/A		PRE PRE	5.20 a	18.40 a
LSD (P=.05)					1.353	5.014
Standard Deviation					0.920	3.409
CV					21.96	25.52

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

## SWEET CORN TOLERANCE AND WEED CONTROL WITH DISTINCT TANK MIXES

Trial ID: SWCNTOLWC 2001

Study Dir.: DR.DOUG DOOHAN AND TIM KOCH

Location: WOOSTER

Investigator: DR. DOUGLAS J. DOOHAN

### GENERAL TRIAL INFORMATION

**Study Director:** DR.DOUGLAS J.DOOHAN AND T.KOCH **Title:** ASST.PROFESSOR

**Affiliation:** OARDC/THE OHIO STATE UNIVERSITY

**Postal Code:** 44691

**Investigator:** DR. DOUGLAS J. DOOHAN **Title:** ASST.PROFESSOR

**Affiliation:** OARDC/THE OHIO STATE UNIVERSITY

**Postal Code:** 44691

### TRIAL LOCATION

**City:** WOOSTER

**Trial Status:** FINAL

**State/Prov.:** OHIO

**Trial Reliability:** RELIABLE

**Postal Code:** 44691

**Initiation Date:** Jun-11-01

**Country:** USA

**Planned Completion Date:** Sep-30-01

**Directions:** TAKE SR 250 EAST OF WOOSTER TO OIL CITY RD., THEN SOUTH ON OIL CITY 4 MILES TO HORT UNIT 2

### COOPERATOR/LANDOWNER

**Cooperator:** JOHN ELLIOT MGR.

**Country:** USA

**Org:** OARDC

**Phone No:** (330)263-3940

**Address 1:** HORT UNIT 1,1628 DOVER RD.

**City:** WOOSTER

**State/Prov:** OHIO

**Postal Code:** 44691

**Conducted Under GLP (Y/N):** N

**Conducted Under GEP (Y/N):** N

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	PANDI	FALL PANICUM	PANICUM DICHOTOMIFLORUM (MICHX.)
2.	CIRAR	CANADA THISTLE	CIRSIUM ARVENSE (L.) SCOP.

**Crop 1:** ZEAMS SWEET CORN  
ATTRIBUTE

**Variety:** ROGERS BC-0801

**Planting Date:** Jun-11-01

**Planting Method:** CONVENTIONAL

**Rate:** 28000 K

**Depth:** 2 "

**Row Spacing:** 30 "

**Seed Bed:** CONVENTIONAL

**Soil Moisture:** HIGH

**Emergence Date:** Jun-18-01

### SITE AND DESIGN

**Plot Width, Unit:** 10 FT

**Plot Length, Unit:** 25 FT

**Reps:** 3

**Site Type:** LEVEL FIELD

**Tillage Type:** CONVENTIONAL

**Study Design:** RANDOMIZED COMPLETE BLOCK

### MAINTENANCE

**Field Prep./Maintenance:** PLOWING AND DISKING WAS DONE LATE APRIL.FERTILIZER WAS BROADCAST (19-19-19) @ 300#/A ON MAY 7.ROUNDUP WAS APPLIED @ 1QT./A ON JUNE 13.

### SOIL DESCRIPTION

**% Sand:** 11

**% OM:** 3

**Texture:** SILT LOAM

**% Silt:** 75

**pH:** 6.0

**Soil Name:** WOOSTER SILT LOAM

**% Clay:** 14

**CEC:** 13

**Fert. Level:** MODERATE



# The Ohio State University

## APPLICATION DESCRIPTION

	A	B	C	D
<b>Application Date:</b>	Jun-13-01	Jun-18-01	Jul-06-01	Jul-19-01
<b>Time of Day:</b>	10-11 AM	11-12 AM	11-12 AM	10-11 AM
<b>Application Method:</b>	SPRAY	SPRAY	SPRAY	SPRAY
<b>Application Timing:</b>	PREEM	SPIKE	MID-POST	LATE-POST
<b>Applic. Placement:</b>	BDCST	BDCST	BDCST	BDCST
<b>Air Temp., Unit:</b>	75 F	72 F	70 F	80 F
<b>% Relative Humidity:</b>	75	67	66	88
<b>Wind Velocity, Unit:</b>	2 MPH	3 MPH	2 MPH	1 MPH
<b>Dew Presence (Y/N):</b>	N	N	N	N
<b>Soil Moisture:</b>	MOIST	DRY	DRY	DRY
<b>% Cloud Cover:</b>	15	85	20	70

## CROP STAGE AT EACH APPLICATION

	A	B	C
<b>Crop 1 Code, Stage:</b>	ZEAMS PREEM	ZEAMS SPIKE	ZEAMS MID-POST
<b>Stage Scale:</b>	.	SEEDLING	3-COLLAR
<b>Height, Unit:</b>	0. .	1 INCH	10 INCH
	<b>D</b>		
<b>Crop 1 Code, Stage:</b>	ZEAMS LATE-POST		
<b>Stage Scale:</b>	> 3- COLL		
<b>Height, Unit:</b>	20 INCH		

## WEED STAGE AT EACH APPLICATION

	A	B	C
<b>Weed 1 Code, Stage:</b>	PANDI PREEM	PANDI SPIKE	PANDI MID-POST
<b>Stage Scale:</b>	.	.	.
<b>Density, Unit:</b>	. .	. .	. .
	<b>D</b>		
<b>Weed 1 Code, Stage:</b>	PANDI LATEPOST		
<b>Stage Scale:</b>	6"		
<b>Density, Unit:</b>	MED. .		

# The Ohio State University

## APPLICATION EQUIPMENT

	A	B	C	D
<b>Appl. Equipment:</b>	CO2 PLOT	CO2 PLOT	CO2 PLOT	CO2 PLOT
<b>Operating Pressure:</b>	35 PSI	35 PSI	35 PSI	35 PSI
<b>Nozzle Type:</b>	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN
<b>Nozzle Size:</b>	8002 VS	8002 VS	8002 VS	8002 VS
<b>Nozzle Spacing, Unit:</b>	12 "	12 "	12 "	12 "
<b>Nozzles/Row:</b>	10	10	10	10
<b>Band Width, Unit:</b>	10 FEET	10 FEET	10 FEET	10 FEET
<b>Boom Height, Unit:</b>	18 INCH	18 INCH	18 INCH	18 INCH
<b>Ground Speed, Unit:</b>	4.0 MPH	4.0 MPH	4.0 MPH	4.0 MPH
<b>Carrier:</b>	WATER	WATER	WATER	WATER
<b>Spray Volume, Unit:</b>	20 GPA	20 GPA	20 GPA	20 GPA
<b>Propellant:</b>	CO2	CO2	CO2	CO2
<b>Tank Mix (Y/N):</b>	Y	Y	Y	Y

# The Ohio State University

## SWEET CORN TOLERANCE AND WEED CONTROL WITH DISTINCT TANK MIXES

Trial ID: SWCNTOLWC 2001

Study Dir.: DR.DOUG DOOHAN AND TIM KOCH

Location: WOOSTER

Investigator: DR. DOUGLAS J. DOOHAN

### Trial Comments

EACH PLOT WAS 10' WIDE X 25' LONG. (FOUR 30" ROWS WIDE) . ALL DATA WAS TAKEN FROM THE TWO CENTER ROWS , INCLUDING STAND COUNTS,YIELD,ETC... ALL EARS ON THE TWO CENTER ROWS OF EACH PLOT WERE THEN COUNTED AND WEIGHED . THE MARKETABLE EARS WERE THEN SEPERATED OUT ,COUNTED AND WEIGHED.WE EXPERIENCED DROUGHT CONDITIONS THIS SUMMER WHICH AFFECTED CORN GROWTH AND YIELD.

# The Ohio State University

## SWEET CORN TOLERANCE AND WEED CONTROL WITH DISTINCT TANK MIXES

Trial ID: SWCNTOLWC 2001

Study Dir.: DR.DOUG DOOHAN AND TIM KOCH

Location: WOOSTER

Investigator: DR. DOUGLAS J. DOOHAN

Weed Code					ZEAMS	ZEAMS	ZEAMS	ZEAMS
Crop Code								
Part Rated								
Rating Data Type					INJURY	STUNT	STAND	INJURY
Rating Unit					PERCENT	PERCENT	COUNT	PERCENT
Rating Date					Jun-22-01	Jun-22-01	Jun-29-01	Jul-09-01
Crop Stage								
# Subsamples, Dec.					0	0	0	0
Trt	Treatment	Product	Product	Grow				
No.	Name	Rate	Rate Unit	Stg	1	2	3	4
1	WEEDY CHECK				0 c	0 a	27 a	0 c
2	OUTLOOK	16 OZ/A		PREEM	0 c	0 a	27 a	0 c
3	GUARDSMAN MAX	2.6 PT/A		PREEM	0 c	0 a	27 a	0 c
4	GUARDSMAN MAX	3.6 PT/A		PREEM	0 c	0 a	26 a	0 c
5	GUARDSMAN MAX	4.6 PT/A		PREEM	3 c	0 a	26 a	0 c
6	PROWL + ATRAZINE	2.5 PT/A 1.0 QT/A		SPIKE SPIKE	12 b	0 a	27 a	0 c
7	PROWL + GUARDSMAN MAX	2.0 PT/A 3.0 PT/A		SPIKE SPIKE	18 a	0 a	27 a	0 c
8	PROWL + ATRAZINE + DISTINCT + NIS + AMS	2.5 PT/A 1.0 QT/A 4.0 OZ/A 0.25 %V/V 5 LB A/100 GAL		SPIKE SPIKE MP 10 MP 10 MP 10	17 ab	0 a	22 a	2 bc
9	PROWL + ATRAZINE + DISTINCT+ NIS + AMS	2.5 PT/A 1.0 QT/A 2.0 OZ/A 0.25 % V/V 5 LB A/100 GAL		MP 10 MP 10 MP 10 MP 10 MP 10	0 c	0 a	27 a	7 a
10	PROWL + ATRAZINE+ DISTINCT+ NIS + AMS	2.5 PT/A 1.0 QT/A 4.0 OZ/A 0.25 % V/V 5 LB A/100 GAL		MP 10 MP 10 MP 10 MP 10 MP 10	0 c	0 a	29 a	3 b
11	OUTLOOK+ DISTINCT+ NIS + AMS	16 OZ/A 4 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM MP 10 MP 10 MP 10	2 c	0 a	25 a	0 c
12	OUTLOOK+ DISTINCT+ NIS + AMS	16 OZ/A 2 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM MP 10 MP 10 MP 10	0 c	0 a	30 a	0 c
13	OUTLOOK+ DISTINCT+ NIS + AMS	16 OZ/A 2 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM LP 20 LP 20 LP 20	0 c	0 a	24 a	0 c
14	OUTLOOK+ PROWL+ DISTINCT+ NIS + AMS	12 OZ/A 2 PT/A 2 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM SPIKE MP 10 MP 10 MP 10	0 c	0 a	23 a	0 c

# The Ohio State University

Weed Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	
Crop Code								
Part Rated								
Rating Data Type				INJURY	STUNT	STAND	INJURY	
Rating Unit				PERCENT	PERCENT	COUNT	PERCENT	
Rating Date				Jun-22-01	Jun-22-01	Jun-29-01	Jul-09-01	
Crop Stage								
# Subsamples, Dec.				0	0	0	0	
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4
15	OUTLOOK+	16	OZ/A	PREEM	0 c	0 a	26 a	0 c
	MARKSMAN+	3.5	PT/A	PREEM				
	UAN 28%	2.5	% V/V	PREEM				
16	GUARDSMAN MAX+	3	PT/A	PREEM	0 c	0 a	26 a	0 c
	DISTINCT+	2	OZ/A	MP 10				
	NIS+	0.25	% V/V	MP 10				
	AMS	5	LB A/100 GAL	MP 10				
17	GUARDSMAN MAX+	3	PT/A	PREEM	0 c	0 a	25 a	0 c
	DISTINCT+	4	OZ/A	MP 10				
	NIS+	0.25	% V/V	MP 10				
	AMS	5	LB A/100 GAL	MP 10				
18	DUAL 2 MAGNUM+	1.3	PT/A	PREEM	0 c	0 a	26 a	0 c
	ATRAZINE	1	QT/A	PREEM				
19	DUAL 2 MAGNUM+	1.3	PT/A	PREEM	0 c	0 a	27 a	0 c
	ATRAZINE+	1	QT/A	PREEM				
	DISTINCT+	2	OZ/A	MP 10				
	NIS+	0.25	% V/V	MP 10				
	AMS	5	LB A/100 GAL	MP 10				
20	DUAL 2 MAGNUM+	1.3	PT/A	PREEM	0 c	0 a	25 a	0 c
	ATRAZINE+	1	QT/A	PREEM				
	DISTINCT+	4	OZ/A	MP 10				
	NIS+	0.25	% V/V	MP 10				
	AMS	5	LB A/100 GAL	MP 10				
LSD (P=.05)				5.8	0.0	6.3	3.1	
Standard Deviation				3.5	0.0	3.8	1.9	
CV				135.77	0.0	14.61	322.12	

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					ZEAMS	PANDI ZEAMS	CIRAR ZEAMS
Crop Code							
Part Rated							
Rating Data Type					STUNT	CONTROL	CONTROL
Rating Unit					PERCENT	PERCENT	PERCENT
Rating Date					Jul-09-01	Jul-09-01	Jul-09-01
Crop Stage							
# Subsamples, Dec.					0	0	0
Trt	Treatment	Product	Product	Grow			
No.	Name	Rate	Rate Unit	Stg	5	6	7
1	WEEDY CHECK				0 a	0 a	0 c
2	OUTLOOK	16 OZ/A		PREEM	0 a	58 a	99 a
3	GUARDSMAN MAX	2.6 PT/A		PREEM	0 a	73 a	93 b
4	GUARDSMAN MAX	3.6 PT/A		PREEM	0 a	77 a	99 a
5	GUARDSMAN MAX	4.6 PT/A		PREEM	0 a	57 a	99 a
6	PROWL + ATRAZINE	2.5 PT/A 1.0 QT/A		SPIKE SPIKE	0 a	73 a	99 a
7	PROWL + GUARDSMAN MAX	2.0 PT/A 3.0 PT/A		SPIKE SPIKE	2 a	88 a	93 b
8	PROWL + ATRAZINE + DISTINCT + NIS + AMS	2.5 PT/A 1.0 QT/A 4.0 OZ/A 0.25 %V/V 5 LB A/100 GAL		SPIKE SPIKE MP 10 MP 10 MP 10	2 a	75 a	99 a
9	PROWL + ATRAZINE + DISTINCT+ NIS + AMS	2.5 PT/A 1.0 QT/A 2.0 OZ/A 0.25 % V/V 5 LB A/100 GAL		MP 10 MP 10 MP 10 MP 10 MP 10	0 a	28 a	99 a
10	PROWL + ATRAZINE+ DISTINCT+ NIS + AMS	2.5 PT/A 1.0 QT/A 4.0 OZ/A 0.25 % V/V 5 LB A/100 GAL		MP 10 MP 10 MP 10 MP 10 MP 10	0 a	50 a	98 a
11	OUTLOOK+ DISTINCT+ NIS + AMS	16 OZ/A 4 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM MP 10 MP 10 MP 10	0 a	77 a	96 ab
12	OUTLOOK+ DISTINCT+ NIS + AMS	16 OZ/A 2 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM MP 10 MP 10 MP 10	0 a	62 a	99 a
13	OUTLOOK+ DISTINCT+ NIS + AMS	16 OZ/A 2 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM LP 20 LP 20 LP 20	0 a	83 a	96 ab
14	OUTLOOK+ PROWL+ DISTINCT+ NIS + AMS	12 OZ/A 2 PT/A 2 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM SPIKE MP 10 MP 10 MP 10	2 a	87 a	99 a
15	OUTLOOK+ MARKSMAN+ UAN 28%	16 OZ/A 3.5 PT/A 2.5 % V/V		PREEM PREEM PREEM	0 a	85 a	99 a

# The Ohio State University

Weed Code				ZEAMS	PANDI ZEAMS	CIRAR ZEAMS
Crop Code						
Part Rated						
Rating Data Type				STUNT	CONTROL	CONTROL
Rating Unit				PERCENT	PERCENT	PERCENT
Rating Date				Jul-09-01	Jul-09-01	Jul-09-01
Crop Stage						
# Subsamples, Dec.				0	0	0
Trt	Treatment	Product	Product	Grow		
No.	Name	Rate	Rate Unit	Stg	5	6
16	GUARDSMAN MAX+	3	PT/A	PREEM	0 a	60 a
	DISTINCT+	2	OZ/A	MP 10		98 a
	NIS+	0.25	% V/V	MP 10		
	AMS	5	LB A/100 GAL	MP 10		
17	GUARDSMAN MAX+	3	PT/A	PREEM	0 a	57 a
	DISTINCT+	4	OZ/A	MP 10		99 a
	NIS+	0.25	% V/V	MP 10		
	AMS	5	LB A/100 GAL	MP 10		
18	DUAL 2 MAGNUM+	1.3	PT/A	PREEM	0 a	77 a
	ATRAZINE	1	QT/A	PREEM		99 a
19	DUAL 2 MAGNUM+	1.3	PT/A	PREEM	0 a	55 a
	ATRAZINE+	1	QT/A	PREEM		99 a
	DISTINCT+	2	OZ/A	MP 10		
	NIS+	0.25	% V/V	MP 10		
	AMS	5	LB A/100 GAL	MP 10		
20	DUAL 2 MAGNUM+	1.3	PT/A	PREEM	0 a	85 a
	ATRAZINE+	1	QT/A	PREEM		99 a
	DISTINCT+	4	OZ/A	MP 10		
	NIS+	0.25	% V/V	MP 10		
	AMS	5	LB A/100 GAL	MP 10		
LSD (P=.05)				1.8	45.9	4.6
Standard Deviation				1.1	27.8	2.8
CV				447.21	42.61	3.03

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					ZEAMS	ZEAMS	PANDI
Crop Code							ZEAMS
Part Rated							
Rating Data Type					INJURY	STUNT	CONTROL
Rating Unit					PERCENT	PERCENT	PERCENT
Rating Date					Jul-17-01	Jul-17-01	Jul-17-01
Crop Stage							
# Subsamples, Dec.					0	0	0
Trt	Treatment	Product	Product	Grow			
No.	Name	Rate	Rate Unit	Stg	8	9	10
1	WEEDY CHECK				0 b	0 a	0 d
2	OUTLOOK	16 OZ/A		PREEM	0 b	2 a	78 abc
3	GUARDSMAN MAX	2.6 PT/A		PREEM	0 b	0 a	75 abc
4	GUARDSMAN MAX	3.6 PT/A		PREEM	0 b	3 a	82 abc
5	GUARDSMAN MAX	4.6 PT/A		PREEM	0 b	2 a	63 bc
6	PROWL + ATRAZINE	2.5 PT/A 1.0 QT/A		SPIKE SPIKE	0 b	5 a	78 abc
7	PROWL + GUARDSMAN MAX	2.0 PT/A 3.0 PT/A		SPIKE SPIKE	0 b	5 a	87 a
8	PROWL + ATRAZINE + DISTINCT + NIS + AMS	2.5 PT/A 1.0 QT/A 4.0 OZ/A 0.25 %V/V 5 LB A/100 GAL		SPIKE SPIKE MP 10 MP 10 MP 10	0 b	10 a	88 a
9	PROWL + ATRAZINE + DISTINCT+ NIS + AMS	2.5 PT/A 1.0 QT/A 2.0 OZ/A 0.25 % V/V 5 LB A/100 GAL		MP 10 MP 10 MP 10 MP 10 MP 10	8 a	5 a	83 abc
10	PROWL + ATRAZINE+ DISTINCT+ NIS + AMS	2.5 PT/A 1.0 QT/A 4.0 OZ/A 0.25 % V/V 5 LB A/100 GAL		MP 10 MP 10 MP 10 MP 10 MP 10	0 b	0 a	85 ab
11	OUTLOOK+ DISTINCT+ NIS + AMS	16 OZ/A 4 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM MP 10 MP 10 MP 10	0 b	5 a	77 abc
12	OUTLOOK+ DISTINCT+ NIS + AMS	16 OZ/A 2 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM MP 10 MP 10 MP 10	0 b	3 a	85 ab
13	OUTLOOK+ DISTINCT+ NIS + AMS	16 OZ/A 2 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM LP 20 LP 20 LP 20	0 b	0 a	83 abc
14	OUTLOOK+ PROWL+ DISTINCT+ NIS + AMS	12 OZ/A 2 PT/A 2 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM SPIKE MP 10 MP 10 MP 10	0 b	5 a	88 a
15	OUTLOOK+ MARKSMAN+ UAN 28%	16 OZ/A 3.5 PT/A 2.5 % V/V		PREEM PREEM PREEM	0 b	3 a	88 a



# The Ohio State University

Weed Code					ZEAMS	ZEAMS	PANDI
Crop Code							ZEAMS
Part Rated							
Rating Data Type					INJURY	STUNT	CONTROL
Rating Unit					PERCENT	PERCENT	PERCENT
Rating Date					Jul-17-01	Jul-17-01	Jul-17-01
Crop Stage							
# Subsamples, Dec.					0	0	0
Trt	Treatment	Product	Product	Grow			
No.	Name	Rate	Rate Unit	Stg	8	9	10
16	GUARDSMAN MAX+	3	PT/A	PREEM	0 b	0 a	80 abc
	DISTINCT+	2	OZ/A	MP 10			
	NIS+	0.25	% V/V	MP 10			
	AMS	5	LB A/100 GAL	MP 10			
17	GUARDSMAN MAX+	3	PT/A	PREEM	0 b	5 a	73 abc
	DISTINCT+	4	OZ/A	MP 10			
	NIS+	0.25	% V/V	MP 10			
	AMS	5	LB A/100 GAL	MP 10			
18	DUAL 2 MAGNUM+	1.3	PT/A	PREEM	0 b	3 a	80 abc
	ATRAZINE	1	QT/A	PREEM			
19	DUAL 2 MAGNUM+	1.3	PT/A	PREEM	0 b	3 a	62 c
	ATRAZINE+	1	QT/A	PREEM			
	DISTINCT+	2	OZ/A	MP 10			
	NIS+	0.25	% V/V	MP 10			
	AMS	5	LB A/100 GAL	MP 10			
20	DUAL 2 MAGNUM+	1.3	PT/A	PREEM	0 b	3 a	83 abc
	ATRAZINE+	1	QT/A	PREEM			
	DISTINCT+	4	OZ/A	MP 10			
	NIS+	0.25	% V/V	MP 10			
	AMS	5	LB A/100 GAL	MP 10			
LSD (P=.05)					1.1	6.8	22.5
Standard Deviation					0.6	4.1	13.6
CV					154.92	130.35	17.95

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					CIRAR	ZEAMS	ZEAMS
Crop Code					ZEAMS	ZEAMS	ZEAMS
Part Rated							
Rating Data Type					CONTROL	INJURY	STUNT
Rating Unit					PERCENT	PERCENT	PERCENT
Rating Date					Jul-17-01	Aug-03-01	Aug-03-01
Crop Stage							
# Subsamples, Dec.					0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13
1	WEEDY CHECK				0 c	0 c	0 a
2	OUTLOOK	16 OZ/A		PREEM	62 b	0 c	3 a
3	GUARDSMAN MAX	2.6 PT/A		PREEM	82 ab	0 c	2 a
4	GUARDSMAN MAX	3.6 PT/A		PREEM	85 ab	0 c	3 a
5	GUARDSMAN MAX	4.6 PT/A		PREEM	73 ab	0 c	3 a
6	PROWL + ATRAZINE	2.5 PT/A 1.0 QT/A		SPIKE SPIKE	95 a	0 c	0 a
7	PROWL + GUARDSMAN MAX	2.0 PT/A 3.0 PT/A		SPIKE SPIKE	88 ab	0 c	7 a
8	PROWL + ATRAZINE + DISTINCT + NIS + AMS	2.5 PT/A 1.0 QT/A 4.0 OZ/A 0.25 %V/V 5 LB A/100 GAL		SPIKE SPIKE MP 10 MP 10 MP 10	93 ab	2 bc	7 a
9	PROWL + ATRAZINE + DISTINCT+ NIS + AMS	2.5 PT/A 1.0 QT/A 2.0 OZ/A 0.25 % V/V 5 LB A/100 GAL		MP 10 MP 10 MP 10 MP 10 MP 10	94 a	10 a	2 a
10	PROWL + ATRAZINE+ DISTINCT+ NIS + AMS	2.5 PT/A 1.0 QT/A 4.0 OZ/A 0.25 % V/V 5 LB A/100 GAL		MP 10 MP 10 MP 10 MP 10 MP 10	90 ab	0 c	0 a
11	OUTLOOK+ DISTINCT+ NIS + AMS	16 OZ/A 4 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM MP 10 MP 10 MP 10	83 ab	3 b	3 a
12	OUTLOOK+ DISTINCT+ NIS + AMS	16 OZ/A 2 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM MP 10 MP 10 MP 10	96 a	0 c	2 a
13	OUTLOOK+ DISTINCT+ NIS + AMS	16 OZ/A 2 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM LP 20 LP 20 LP 20	85 ab	0 c	0 a
14	OUTLOOK+ PROWL+ DISTINCT+ NIS + AMS	12 OZ/A 2 PT/A 2 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM SPIKE MP 10 MP 10 MP 10	94 a	0 c	3 a
15	OUTLOOK+ MARKSMAN+ UAN 28%	16 OZ/A 3.5 PT/A 2.5 % V/V		PREEM PREEM PREEM	94 a	0 c	2 a

# The Ohio State University

Weed Code					CIRAR	ZEAMS	ZEAMS
Crop Code					ZEAMS	ZEAMS	ZEAMS
Part Rated							
Rating Data Type					CONTROL	INJURY	STUNT
Rating Unit					PERCENT	PERCENT	PERCENT
Rating Date					Jul-17-01	Aug-03-01	Aug-03-01
Crop Stage							
# Subsamples, Dec.					0	0	0
Trt	Treatment	Product	Product	Grow			
No.	Name	Rate	Rate Unit	Stg	11	12	13
16	GUARDSMAN MAX+	3	PT/A	PREEM	90 ab	0 c	0 a
	DISTINCT+	2	OZ/A	MP 10			
	NIS+	0.25	% V/V	MP 10			
	AMS	5	LB A/100 GAL	MP 10			
17	GUARDSMAN MAX+	3	PT/A	PREEM	83 ab	2 bc	5 a
	DISTINCT+	4	OZ/A	MP 10			
	NIS+	0.25	% V/V	MP 10			
	AMS	5	LB A/100 GAL	MP 10			
18	DUAL 2 MAGNUM+	1.3	PT/A	PREEM	83 ab	0 c	3 a
	ATRAZINE	1	QT/A	PREEM			
19	DUAL 2 MAGNUM+	1.3	PT/A	PREEM	73 ab	0 c	3 a
	ATRAZINE+	1	QT/A	PREEM			
	DISTINCT+	2	OZ/A	MP 10			
	NIS+	0.25	% V/V	MP 10			
	AMS	5	LB A/100 GAL	MP 10			
20	DUAL 2 MAGNUM+	1.3	PT/A	PREEM	94 a	0 c	3 a
	ATRAZINE+	1	QT/A	PREEM			
	DISTINCT+	4	OZ/A	MP 10			
	NIS+	0.25	% V/V	MP 10			
	AMS	5	LB A/100 GAL	MP 10			
LSD (P=.05)					32.4	3.3	6.1
Standard Deviation					19.6	2.0	3.7
CV					23.97	237.75	142.85

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					PANDI	CIRAR	
Crop Code					ZEAMS	ZEAMS	ZEAMS
Part Rated							
Rating Data Type					CONTROL	CONTROL	HEIGHT
Rating Unit					PERCENT	PERCENT	INCHES
Rating Date					Aug-03-01	Aug-03-01	Aug-14-01
Crop Stage							
# Subsamples, Dec.					0	0	0
Trt	Treatment	Product	Product	Grow			
No.	Name	Rate	Rate Unit	Stg	14	15	16
1	WEEDY CHECK				0 a	0 c	51 a
2	OUTLOOK	16 OZ/A		PREEM	57 a	63 b	50 a
3	GUARDSMAN MAX	2.6 PT/A		PREEM	52 a	89 ab	53 a
4	GUARDSMAN MAX	3.6 PT/A		PREEM	62 a	69 ab	51 a
5	GUARDSMAN MAX	4.6 PT/A		PREEM	48 a	99 a	48 a
6	PROWL + ATRAZINE	2.5 PT/A 1.0 QT/A		SPIKE SPIKE	72 a	99 a	50 a
7	PROWL + GUARDSMAN MAX	2.0 PT/A 3.0 PT/A		SPIKE SPIKE	82 a	99 a	51 a
8	PROWL + ATRAZINE + DISTINCT + NIS + AMS	2.5 PT/A 1.0 QT/A 4.0 OZ/A 0.25 %V/V 5 LB A/100 GAL		SPIKE SPIKE MP 10 MP 10 MP 10	77 a	99 a	45 a
9	PROWL + ATRAZINE + DISTINCT+ NIS + AMS	2.5 PT/A 1.0 QT/A 2.0 OZ/A 0.25 % V/V 5 LB A/100 GAL		MP 10 MP 10 MP 10 MP 10 MP 10	67 a	99 a	52 a
10	PROWL + ATRAZINE+ DISTINCT+ NIS + AMS	2.5 PT/A 1.0 QT/A 4.0 OZ/A 0.25 % V/V 5 LB A/100 GAL		MP 10 MP 10 MP 10 MP 10 MP 10	72 a	99 a	53 a
11	OUTLOOK+ DISTINCT+ NIS + AMS	16 OZ/A 4 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM MP 10 MP 10 MP 10	67 a	99 a	51 a
12	OUTLOOK+ DISTINCT+ NIS + AMS	16 OZ/A 2 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM MP 10 MP 10 MP 10	72 a	99 a	51 a
13	OUTLOOK+ DISTINCT+ NIS + AMS	16 OZ/A 2 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM LP 20 LP 20 LP 20	78 a	96 a	52 a
14	OUTLOOK+ PROWL+ DISTINCT+ NIS + AMS	12 OZ/A 2 PT/A 2 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM SPIKE MP 10 MP 10 MP 10	83 a	99 a	49 a
15	OUTLOOK+ MARKSMAN+ UAN 28%	16 OZ/A 3.5 PT/A 2.5 % V/V		PREEM PREEM PREEM	85 a	99 a	54 a

# The Ohio State University

Weed Code					PANDI	CIRAR	
Crop Code					ZEAMS	ZEAMS	ZEAMS
Part Rated							
Rating Data Type					CONTROL	CONTROL	HEIGHT
Rating Unit					PERCENT	PERCENT	INCHES
Rating Date					Aug-03-01	Aug-03-01	Aug-14-01
Crop Stage							
# Subsamples, Dec.					0	0	0
Trt	Treatment	Product	Product	Grow			
No.	Name	Rate	Rate Unit	Stg	14	15	16
16	GUARDSMAN MAX+	3	PT/A	PREEM	62 a	99 a	57 a
	DISTINCT+	2	OZ/A	MP 10			
	NIS+	0.25	% V/V	MP 10			
	AMS	5	LB A/100 GAL	MP 10			
17	GUARDSMAN MAX+	3	PT/A	PREEM	58 a	99 a	47 a
	DISTINCT+	4	OZ/A	MP 10			
	NIS+	0.25	% V/V	MP 10			
	AMS	5	LB A/100 GAL	MP 10			
18	DUAL 2 MAGNUM+	1.3	PT/A	PREEM	65 a	69 ab	48 a
	ATRAZINE	1	QT/A	PREEM			
19	DUAL 2 MAGNUM+	1.3	PT/A	PREEM	53 a	99 a	44 a
	ATRAZINE+	1	QT/A	PREEM			
	DISTINCT+	2	OZ/A	MP 10			
	NIS+	0.25	% V/V	MP 10			
	AMS	5	LB A/100 GAL	MP 10			
20	DUAL 2 MAGNUM+	1.3	PT/A	PREEM	65 a	99 a	50 a
	ATRAZINE+	1	QT/A	PREEM			
	DISTINCT+	4	OZ/A	MP 10			
	NIS+	0.25	% V/V	MP 10			
	AMS	5	LB A/100 GAL	MP 10			
LSD (P=.05)					38.7	33.0	6.7
Standard Deviation					23.5	20.0	4.0
CV					36.78	22.55	8.02

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					ZEAMS STAND COUNT Sep-07-01	ZEAMS EARS TOTAL NUMBER Sep-07-01 HARVEST	ZEAMS EARS TOTAL WT./LBS Sep-07-01 HARVEST
Crop Code							
Part Rated							
Rating Data Type							
Rating Unit							
Rating Date							
Crop Stage							
# Subsamples, Dec.							
Trt	Treatment	Product	Product	Grow			
No.	Name	Rate	Rate Unit	Stg	17	18	19
1	WEEDY CHECK				27 a	24 a	11.47 a
2	OUTLOOK	16 OZ/A		PREEM	27 a	26 a	14.87 a
3	GUARDSMAN MAX	2.6 PT/A		PREEM	28 a	26 a	16.40 a
4	GUARDSMAN MAX	3.6 PT/A		PREEM	27 a	26 a	15.03 a
5	GUARDSMAN MAX	4.6 PT/A		PREEM	27 a	22 a	12.63 a
6	PROWL + ATRAZINE	2.5 PT/A 1.0 QT/A		SPIKE SPIKE	24 a	22 a	11.80 a
7	PROWL + GUARDSMAN MAX	2.0 PT/A 3.0 PT/A		SPIKE SPIKE	29 a	29 a	16.20 a
8	PROWL + ATRAZINE + DISTINCT + NIS + AMS	2.5 PT/A 1.0 QT/A 4.0 OZ/A 0.25 %V/V 5 LB A/100 GAL		SPIKE SPIKE MP 10 MP 10 MP 10	24 a	23 a	14.37 a
9	PROWL + ATRAZINE + DISTINCT+ NIS + AMS	2.5 PT/A 1.0 QT/A 2.0 OZ/A 0.25 % V/V 5 LB A/100 GAL		MP 10 MP 10 MP 10 MP 10 MP 10	24 a	22 a	13.37 a
10	PROWL + ATRAZINE+ DISTINCT+ NIS + AMS	2.5 PT/A 1.0 QT/A 4.0 OZ/A 0.25 % V/V 5 LB A/100 GAL		MP 10 MP 10 MP 10 MP 10 MP 10	31 a	30 a	17.80 a
11	OUTLOOK+ DISTINCT+ NIS + AMS	16 OZ/A 4 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM MP 10 MP 10 MP 10	27 a	27 a	15.97 a
12	OUTLOOK+ DISTINCT+ NIS + AMS	16 OZ/A 2 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM MP 10 MP 10 MP 10	29 a	27 a	15.57 a
13	OUTLOOK+ DISTINCT+ NIS + AMS	16 OZ/A 2 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM LP 20 LP 20 LP 20	25 a	24 a	15.53 a
14	OUTLOOK+ PROWL+ DISTINCT+ NIS + AMS	12 OZ/A 2 PT/A 2 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM SPIKE MP 10 MP 10 MP 10	26 a	26 a	14.90 a
15	OUTLOOK+ MARKSMAN+ UAN 28%	16 OZ/A 3.5 PT/A 2.5 % V/V		PREEM PREEM PREEM	24 a	21 a	12.83 a

# The Ohio State University

Weed Code				ZEAMS	ZEAMS	ZEAMS
Crop Code				STAND	EARS	EARS
Part Rated				COUNT	TOTAL	TOTAL
Rating Data Type				Sep-07-01	NUMBER	WT./LBS
Rating Unit				0	SEP-07-01	SEP-07-01
Rating Date				0	HARVEST	HARVEST
Crop Stage				0	0	0
# Subsamples, Dec.				0	0	0
Trt	Treatment	Product	Product	Grow		
No.	Name	Rate	Rate Unit	Stg	17	18
16	GUARDSMAN MAX+	3	PT/A	PREEM	29 a	26 a
	DISTINCT+	2	OZ/A	MP 10		
	NIS+	0.25	% V/V	MP 10		
	AMS	5	LB A/100 GAL	MP 10		
17	GUARDSMAN MAX+	3	PT/A	PREEM	26 a	24 a
	DISTINCT+	4	OZ/A	MP 10		
	NIS+	0.25	% V/V	MP 10		
	AMS	5	LB A/100 GAL	MP 10		
18	DUAL 2 MAGNUM+	1.3	PT/A	PREEM	24 a	24 a
	ATRAZINE	1	QT/A	PREEM		
19	DUAL 2 MAGNUM+	1.3	PT/A	PREEM	25 a	23 a
	ATRAZINE+	1	QT/A	PREEM		
	DISTINCT+	2	OZ/A	MP 10		
	NIS+	0.25	% V/V	MP 10		
	AMS	5	LB A/100 GAL	MP 10		
20	DUAL 2 MAGNUM+	1.3	PT/A	PREEM	27 a	23 a
	ATRAZINE+	1	QT/A	PREEM		
	DISTINCT+	4	OZ/A	MP 10		
	NIS+	0.25	% V/V	MP 10		
	AMS	5	LB A/100 GAL	MP 10		
LSD (P=.05)					7.3	7.5
Standard Deviation					4.4	4.5
CV					16.69	18.25
						5.439
						3.296
						22.99

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					ZEAMS	ZEAMS
Crop Code					EARS	EARS
Part Rated					MARKETAB	MARKETAB
Rating Data Type					NUMBER	WT./LBS.
Rating Unit					Sep-07-01	Sep-07-01
Rating Date					HARVEST	HARVEST
Crop Stage						
# Subsamples, Dec.					0	
Trt	Treatment	Product	Product	Grow		
No.	Name	Rate	Rate Unit	Stg	20	21
1	WEEDY CHECK				7 a	4.53 a
2	OUTLOOK	16 OZ/A		PREEM	10 a	8.03 a
3	GUARDSMAN MAX	2.6 PT/A		PREEM	15 a	10.67 a
4	GUARDSMAN MAX	3.6 PT/A		PREEM	13 a	9.57 a
5	GUARDSMAN MAX	4.6 PT/A		PREEM	11 a	8.10 a
6	PROWL + ATRAZINE	2.5 PT/A 1.0 QT/A		SPIKE SPIKE	9 a	6.43 a
7	PROWL + GUARDSMAN MAX	2.0 PT/A 3.0 PT/A		SPIKE SPIKE	16 a	10.63 a
8	PROWL + ATRAZINE + DISTINCT + NIS + AMS	2.5 PT/A 1.0 QT/A 4.0 OZ/A 0.25 %V/V 5 LB A/100 GAL		SPIKE SPIKE MP 10 MP 10 MP 10	15 a	10.60 a
9	PROWL + ATRAZINE + DISTINCT+ NIS + AMS	2.5 PT/A 1.0 QT/A 2.0 OZ/A 0.25 % V/V 5 LB A/100 GAL		MP 10 MP 10 MP 10 MP 10 MP 10	9 a	7.63 a
10	PROWL + ATRAZINE+ DISTINCT+ NIS + AMS	2.5 PT/A 1.0 QT/A 4.0 OZ/A 0.25 % V/V 5 LB A/100 GAL		MP 10 MP 10 MP 10 MP 10 MP 10	17 a	12.50 a
11	OUTLOOK+ DISTINCT+ NIS + AMS	16 OZ/A 4 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM MP 10 MP 10 MP 10	14 a	10.37 a
12	OUTLOOK+ DISTINCT+ NIS + AMS	16 OZ/A 2 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM MP 10 MP 10 MP 10	13 a	10.13 a
13	OUTLOOK+ DISTINCT+ NIS + AMS	16 OZ/A 2 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM LP 20 LP 20 LP 20	17 a	12.23 a
14	OUTLOOK+ PROWL+ DISTINCT+ NIS + AMS	12 OZ/A 2 PT/A 2 OZ/A 0.25 % V/V 5 LB A/100 GAL		PREEM SPIKE MP 10 MP 10 MP 10	13 a	9.50 a
15	OUTLOOK+ MARKSMAN+ UAN 28%	16 OZ/A 3.5 PT/A 2.5 % V/V		PREEM PREEM PREEM	10 a	7.33 a



# The Ohio State University

Weed Code				ZEAMS	ZEAMS
Crop Code				EARS	EARS
Part Rated				MARKETAB	MARKETAB
Rating Data Type				NUMBER	WT./LBS.
Rating Unit				Sep-07-01	Sep-07-01
Rating Date				HARVEST	HARVEST
Crop Stage					
# Subsamples, Dec.				0	
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	
16	GUARDSMAN MAX+	3	PT/A	PREEM	15 a
	DISTINCT+	2	OZ/A	MP 10	
	NIS+	0.25	% V/V	MP 10	
	AMS	5	LB A/100 GAL	MP 10	
17	GUARDSMAN MAX+	3	PT/A	PREEM	10 a
	DISTINCT+	4	OZ/A	MP 10	
	NIS+	0.25	% V/V	MP 10	
	AMS	5	LB A/100 GAL	MP 10	
18	DUAL 2 MAGNUM+	1.3	PT/A	PREEM	12 a
	ATRAZINE	1	QT/A	PREEM	
19	DUAL 2 MAGNUM+	1.3	PT/A	PREEM	8 a
	ATRAZINE+	1	QT/A	PREEM	
	DISTINCT+	2	OZ/A	MP 10	
	NIS+	0.25	% V/V	MP 10	
	AMS	5	LB A/100 GAL	MP 10	
20	DUAL 2 MAGNUM+	1.3	PT/A	PREEM	9 a
	ATRAZINE+	1	QT/A	PREEM	
	DISTINCT+	4	OZ/A	MP 10	
	NIS+	0.25	% V/V	MP 10	
	AMS	5	LB A/100 GAL	MP 10	
LSD (P=.05)				8.4	6.804
Standard Deviation				5.1	4.123
CV				41.75	45.74

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

## EVALUATION OF AIM, OPTION 360, AND CALLISTO IN SWEET CORN

Trial ID: AIM 2001 Study Dir.: DR. DOUGLAS DOOHAN AND T.KOCH  
 Location: HORT UNIT 2 WOOSTER Investigator: DR. DOUGLAS J. DOOHAN

### GENERAL TRIAL INFORMATION

**Study Director:** DR. DOUGLAS DOOHAN AND T.KOCH **Title:** ASST. PROFESSOR  
**Affiliation:** OARDC/ THE OHIO STATE UNIVERSITY  
**Postal Code:** 44691  
**Investigator:** DR. DOUGLAS J. DOOHAN **Title:** ASST. PROFESSOR  
**Affiliation:** OARDC/THE OHIO STATE UNIVERSITY  
**Postal Code:** 44691

### TRIAL LOCATION

**City:** WOOSTER **Trial Status:** FINAL  
**State/Prov.:** OHIO **Trial Reliability:** RELIABLE  
**Postal Code:** 44691 **Initiation Date:** Jun-11-01  
**Country:** USA **Planned Completion Date:** Sep-15-01  
**Directions:** FROM WOOSTER, TAKE SR 250 EAST TO OIL CITY RD. THEN 4 MILES SOUTH TO HORT UNIT 2.

### COOPERATOR/LANDOWNER

**Cooperator:** JOHN ELLIOT, MANAGER **Country:** USA  
**Org:** OARDC , HORT UNIT 1 **Phone No:** (330) 264-3786  
**Address 1:** 1628 DOVER RD. **Fax No:** ELLIOT.5@OSU.EDU  
**City:** WOOSTER  
**State/Prov:** OHIO  
**Postal Code:** 44691

**Conducted Under GLP (Y/N):** N **Conducted Under GEP (Y/N):** N

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	PANDI	FALL PANICUM	PANICUM DICHOTOMIFLORUM ( MICHX. )
2.	GLXMA	VOLUNTEER SOYBEANS	GLYCINE MAX.

**Crop 1:** ZEAMS SWEET CORN **Variety:** INCREDIBLE  
**Planting Date:** Jun-11-01 **Planting Method:** CONVENTIONAL  
**Rate:** 28000 SEEDS/ACRE **Depth:** 2 "  
**Row Spacing:** 30 " **Seed Bed:** COARSE  
**Soil Moisture:** MED **Emergence Date:** Jun-18-01

### SITE AND DESIGN

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

### MAINTENANCE

**Field Prep./Maintenance:** PLOT PLOWED AND DISKED LATE APRIL. FERTILIZER (20-20-20) BROADCAST AND DISKED ON APRIL 30. DUAL MAGNUM @ 1.3 QTS/A AND ROUNDUP @ 1 QT./A APPLIED TOGETHER ON JUNE 13. "WARRIOR" INSECTICIDE FOR FLEABEETLES APPLIED ON 6/23 AND 7/3 AT 3 OZ. AND 6 OZ./A RESPECTIVELY. WARRIOR WAS ALSO APPLIED ON 8/8 AND 8/15 AT 3 OZ/A FOR CORN EARWORM.

# The Ohio State University

## SOIL DESCRIPTION

% Sand: 11	% OM: 3	Texture: SILT LOAM
% Silt: 75	pH: 5.5	Soil Name: WOOSTER
% Clay: 14	CEC: 13	Fert. Level: MODERATE

## APPLICATION DESCRIPTION

A	
Application Date:	Jul-02-01
Time of Day:	11-12:30
Application Method:	SPRAY
Application Timing:	POST
Applic. Placement:	BDCST
Air Temp., Unit:	68 F
% Relative Humidity:	71
Wind Velocity, Unit:	3 MPH
Dew Presence (Y/N):	N
Soil Moisture:	MOIST
% Cloud Cover:	20

## CROP STAGE AT EACH APPLICATION

A	
Crop 1 Code, Stage:	ZEAMS POST
Stage Scale:	6-7 LF
Height, Unit:	8 INCH

## WEED STAGE AT EACH APPLICATION

A	
Weed 1 Code, Stage:	PANDI POST
Stage Scale:	.
Density, Unit:	. .
Weed 2 Code, Stage:	GLXMA POST
Stage Scale:	.
Density, Unit:	. .

# The Ohio State University

## APPLICATION EQUIPMENT

	<b>A</b>
<b>Appl. Equipment:</b>	CO2 PLOT
<b>Operating Pressure:</b>	35
<b>Nozzle Type:</b>	FFAN
<b>Nozzle Size:</b>	8002VS
<b>Nozzle Spacing, Unit:</b>	12 "
<b>Nozzles/Row:</b>	10
<b>Band Width, Unit:</b>	10 FT
<b>Boom Height, Unit:</b>	18 "
<b>Ground Speed, Unit:</b>	4.0 MPH
<b>Carrier:</b>	H2O
<b>Spray Volume, Unit:</b>	20 GPA
<b>Propellant:</b>	CO2
<b>Tank Mix (Y/N) :</b>	Y

# The Ohio State University

## EVALUATION OF AIM, OPTION 360, AND CALLISTO IN SWEET CORN

Trial ID: AIM 2001

Study Dir.: DR. DOUGLAS DOOHAN AND T.KOCH

Location: HORT UNIT 2 WOOSTER Investigator: DR. DOUGLAS J. DOOHAN

### Trial Comments

ANNUAL GRASSES CONSISTED MAINLY OF FALL PANICUM , WHICH EMERGED AFTER IRRIGATION IN MID --JULY..BROADLEAF WEEDS WERE ALMOST NON-EXISTANT DUE TO LATE PLANTING AND A BURNDOWN APPLICATION AT THE SAME TIME.

WE DID HAVE A NICE CONSISTENT STAND OF VOLUNTEER SOYBEANS , WHICH WAS A GOOD INDICATOR FOR BROADLEAF CONTROL AS THEY ARE HARD TO KILL OFF.

WHEN THE "POST" TREATMENTS WERE APPLIED ON 7/2/01, THERE WERE NO WEEDS PRESENT BECAUSE OF THE FAIRLY RECENT BURNDOWN. THE CORN WAS FROM 5.5-10" TALL, ( 6- 7 LEAF STAGE)

EACH PLOT WAS 10' WIDE AND 25' LONG ,( FOUR ROWS WIDE,30" APART). ALL DATA WAS TAKEN ON THE TWO CENTER ROWS. ALL EARS FROM THE TWO CENTER ROWS OF EACH PLOT WERE HARVESTED , COUNTED AND WEIGHED. THE MARKETABLE EARS WERE THEN SELECTED FROM THESE , COUNTED AND WEIGHED. WEIGHTS ARE IN POUNDS/ 50' OF ROW.

# The Ohio State University

## EVALUATION OF AIM, OPTION 360, AND CALLISTO IN SWEET CORN

Trial ID: AIM 2001

Study Dir.: DR. DOUGLAS DOOHAN AND T. KOCH

Location: HORT UNIT 2 WOOSTER Investigator: DR. DOUGLAS J. DOOHAN

Weed Code				PANDI	GLXMA				
Crop Code				ZEAMS	ZEAMS	ZEAMS			
Part Rated									
Rating Data Type				CONTROL	CONTROL	INJURY			
Rating Unit				PERCENT	PERCENT	PERCENT			
Rating Date				Jul-13-01	Jul-13-01	Aug-02-01			
Crop Stage									
Trt-Eval Interval				11 DA-A	11 DA-A	31 DA-A			
# Subsamples, Dec.				0	0	0			
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
1	CONTROL				0 b	0 a	0 e	0 d	0 a
2	AIM + NIS	0.33 OZ/A 0.4 PT/A		POST	11 a	1 a	46 d	38 c	0 a
3	AIM + BASAGRAN + NIS	0.33 OZ/A 2 PT/A 0.4 PT/A		POST	10 a	5 a	69 c	60 b	1 a
4	AEF 130360 + MSO + 28% N	1.5 OZ/A 1.5 PT/A 2 QT/A		POST	1 b	6 a	81 abc	88 a	3 a
5	AEF 130360 + MSO + 28% N	1.75 OZ/A 1.5 PT/A 2 QT/A		POST	1 b	13 a	95 a	95 a	3 a
6	AEF 130360 + MSO + 28% N	1.5 OZ/A 1.5 PT/A 2 QT/A		POST	0 b	6 a	93 ab	88 a	1 a
7	ZA 1296 NIS	6 OZ/A 0.4 PT/A		POST POST	10 a	8 a	83 abc	93 a	3 a
8	ZA 1296 NIS	3 OZ/A 0.4 PT/A		POST POST	1 b	5 a	74 bc	89 a	3 a
9	ZA 1296 + PERMIT + NIS	3 OZ/A 0.66 OZ/A 0.4 PT/A		POST	0 b	4 a	71 c	88 a	3 a
10	PERMIT + DISTINCT + NIS	0.66 OZ/A 4 OZ/A 0.4 PT/A		POST	0 b	5 a	84 abc	88 a	5 a
	LSD (P=.05)				2.3	7.8	21.1	18.1	4.4
	Standard Deviation				1.6	5.4	14.6	12.5	3.0
	CV				46.0	100.55	20.97	17.25	151.38

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					ZEAMS	PANDI ZEAMS	GLXMA ZEAMS	ZEAMS	ZEAMS
Crop Code									
Part Rated									
Rating Data Type					STUNT	CONTROL	CONTROL	INJURY	STUNT
Rating Unit					PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					Aug-02-01	Aug-02-01	Aug-02-01	Aug-22-01	Aug-22-01
Crop Stage									
Trt-Eval Interval					31 DA-A	31 DA-A	31 DA-A	51 DA-A	51 DA-A
# Subsamples, Dec.					0	0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
1	CONTROL				0 a	0 e	0 f	0 a	0 d
2	AIM + NIS	0.33 OZ/A 0.4 PT/A		POST	0 a	45 cd	58 e	0 a	3 bcd
3	AIM + BASAGRAN + NIS	0.33 OZ/A 2 PT/A 0.4 PT/A		POST	1 a	40 d	66 de	0 a	1 cd
4	AEF 130360 + MSO + 28% N	1.5 OZ/A 1.5 PT/A 2 QT/A		POST	5 a	91 a	86 abc	0 a	1 cd
5	AEF 130360 + MSO + 28% N	1.75 OZ/A 1.5 PT/A 2 QT/A		POST	3 a	91 a	90 ab	0 a	0 d
6	AEF 130360 + MSO + 28% N	1.5 OZ/A 1.5 PT/A 2 QT/A		POST	5 a	93 a	84 abc	0 a	1 cd
7	ZA 1296 NIS	6 OZ/A 0.4 PT/A		POST POST	5 a	69 abc	79 bcd	0 a	3 bcd
8	ZA 1296 NIS	3 OZ/A 0.4 PT/A		POST POST	4 a	56 bcd	71 cde	0 a	9 a
9	ZA 1296 + PERMIT + NIS	3 OZ/A 0.66 OZ/A 0.4 PT/A		POST POST	3 a	59 bcd	90 ab	0 a	6 abc
10	PERMIT + DISTINCT + NIS	0.66 OZ/A 4 OZ/A 0.4 PT/A		POST POST	5 a	74 ab	99 a	0 a	8 ab
LSD (P=.05)					4.7	24.6	15.3	0.0	5.3
Standard Deviation					3.2	17.0	10.6	0.0	3.6
CV					107.82	27.46	14.62	0.0	116.34

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date Crop Stage Trt-Eval Interval # Subsamples, Dec.					PANDI ZEAMS  CONTROL PERCENT Aug-22-01  51 DA-A 0	GLXMA ZEAMS  CONTROL PERCENT Aug-22-01  51 DA-A 0	ZEAMS PLANT STAND COUNT Sep-10-01  70 DA-A 0	ZEAMS EARS TOTAL NUMBER Sep-10-01 HARVEST 70 DA-A 0	ZEAMS EARS TOTAL WT./LBS. Sep-10-01 HARVEST 70 DA-A
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
1	CONTROL				0 f	0 f	27 a	21 a	5.55 c
2	AIM + NIS	0.33 OZ/A 0.4 PT/A		POST	26 e	29 e	30 a	24 a	6.75 c
3	AIM + BASAGRAN + NIS	0.33 OZ/A 2 PT/A 0.4 PT/A		POST	35 de	56 d	32 a	29 a	7.95 c
4	AEF 130360 + MSO + 28% N	1.5 OZ/A 1.5 PT/A 2 QT/A		POST	89 a	84 ab	35 a	34 a	15.33 a
5	AEF 130360 + MSO + 28% N	1.75 OZ/A 1.5 PT/A 2 QT/A		POST	89 a	90 a	34 a	32 a	13.65 ab
6	AEF 130360 + MSO + 28% N	1.5 OZ/A 1.5 PT/A 2 QT/A		POST	90 a	80 abc	33 a	31 a	13.00 ab
7	ZA 1296 NIS	6 OZ/A 0.4 PT/A		POST POST	61 bc	64 cd	33 a	31 a	9.05 bc
8	ZA 1296 NIS	3 OZ/A 0.4 PT/A		POST POST	36 cde	65 bcd	29 a	26 a	6.52 c
9	ZA 1296 + PERMIT + NIS	3 OZ/A 0.66 OZ/A 0.4 PT/A		POST	53 bcd	80 abc	30 a	28 a	8.05 c
10	PERMIT + DISTINCT + NIS	0.66 OZ/A 4 OZ/A 0.4 PT/A		POST	70 ab	97 a	30 a	30 a	9.43 bc
LSD (P=.05)					25.3	19.9	8.0	9.5	4.839
Standard Deviation					17.4	13.7	5.5	6.6	3.335
CV					31.73	21.32	17.72	23.08	35.0

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.



# The Ohio State University

Weed Code					ZEAMS	ZEAMS
Crop Code					EARS	EARS
Part Rated					MARKETAB	MARKETAB
Rating Data Type					NUMBER	WT./LBS.
Rating Unit					Sep-10-01	Sep-10-01
Rating Date					HARVEST	HARVEST
Crop Stage					70 DA-A	70 DA-A
Trt-Eval Interval					0	0
# Subsamples, Dec.						
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	16	17
1	CONTROL				3 bc	1.95 bc
2	AIM + NIS	0.33 0.4	OZ/A PT/A	POST	1 c	0.30 c
3	AIM + BASAGRAN + NIS	0.33 2 0.4	OZ/A PT/A PT/A	POST	1 c	0.48 c
4	AEF 130360 + MSO + 28% N	1.5 1.5 2	OZ/A PT/A QT/A	POST	10 a	6.32 a
5	AEF 130360 + MSO + 28% N	1.75 1.5 2	OZ/A PT/A QT/A	POST	7 ab	4.30 ab
6	AEF 130360 + MSO + 28% N	1.5 1.5 2	OZ/A PT/A QT/A	POST	6 ab	4.00 ab
7	ZA 1296 NIS	6 0.4	OZ/A PT/A	POST POST	3 bc	2.00 bc
8	ZA 1296 NIS	3 0.4	OZ/A PT/A	POST POST	0 c	0.13 c
9	ZA 1296 + PERMIT + NIS	3 0.66 0.4	OZ/A OZ/A PT/A	POST	2 bc	1.20 bc
10	PERMIT + DISTINCT + NIS	0.66 4 0.4	OZ/A OZ/A PT/A	POST	3 bc	2.03 bc
LSD (P=.05)					5.1	3.325
Standard Deviation					3.5	2.291
CV					100.19	100.93

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

## TOLERANCE OF FIFTEEN SWEET CORN VARIETIES TO PERMIT

Trial ID: PERMSCW 2001  
Location: WOOSTER, OHIO

Study Dir.: DR.DOUGLAS DOOHAN AND T.KOCH  
Investigator: DR. DOUGLAS J. DOOHAN

### GENERAL TRIAL INFORMATION

**Study Director:** DR. DOUGLAS J.DOOHAN AND T.KOCH      **Title:** ASST. PROFESSOR  
**Affiliation:** OARDC/ THE OHIO STATE UNIVERSITY  
**Postal Code:** 44691  
**Investigator:** DR. DOUGLAS J. DOOHAN      **Title:** ASST. PROFESSOR  
**Affiliation:** OARDC  
**Postal Code:** 44691

### TRIAL LOCATION

**City:** WOOSTER      **Trial Status:** COMPLETE  
**State/Prov.:** OHIO      **Trial Reliability:** RELIABLE  
**Postal Code:** 44691      **Initiation Date:** Jun-29-01  
**Country:** USA  
**Directions:** FROM WOOSTER, TAKE RT. 250 EAST APPROX. 3 MILES TO OIL CITY RD.  
TURN SOUTH ON OIL CILY APPROX. 4 MI. TO FARM

### COOPERATOR/LANDOWNER

**Cooperator:** JOHN ELLIOT, FARM MGR.      **Country:** USA  
**Org:** OARDC, HORT UNIT 2      **Phone No:** 330-263-3940  
**Address 1:** 5082 OIL CITY RD.  
**City:** WOOSTER  
**State/Prov:** OHIO  
**Postal Code:** 44691

**Conducted Under GLP (Y/N):** N

**Conducted Under GEP (Y/N):** N

**Objective:** TO EVALUATE POSSIBLE INJURY TO SWEET CORN VARIETIES WITH TWO LEVELS OF "PERMIT"

**Crop 1:** ZEAMX SWEET CORN      **Variety:** VARIOUS  
**Planting Date:** Jun-11-01      **Planting Method:** CONVENTIONAL  
**Rate:** 28000 SEEDS/A      **Depth:** 2 IN  
**Row Spacing:** 30 IN      **Seed Bed:** CONVENTIONAL  
**Soil Moisture:** DRY

### SITE AND DESIGN

**Plot Width, Unit:** 10 FT      **Plot Length, Unit:** 40 FT      **Reps:** 3  
**Site Type:** FIELD  
**Tillage Type:** CONVENTIONAL      **Study Design:** SPLIT-PLOT

### MAINTENANCE

**Field Prep./Maintenance:** PLOT PLOWED AND DISCED LATE APRIL.FERTILIZED WITH 20-20-20-  
@500#/A. AATREX @1 QT./A & DUAL MAGNUM @ 1.3 QTS./A, AND ROUNDUP @ 1 QT/A APPLIED TOGETHER ON 6/13/01. "WARRIOR" APPLIED ON 6/23 & 7/3 @ 3 & 6 OZ. RESPECTIVELY.  
ALSO ON 8/8 & 8/15 @ 3OZ./A FOR CORN EARWORM.

### SOIL DESCRIPTION

**% Sand:** 11      **% OM:** 3      **Texture:** SILT LOAM  
**% Silt:** 75      **pH:** 6      **Soil Name:** WOOSTER  
**% Clay:** 14      **CEC:** 13      **Fert. Level:** MODERATE

# The Ohio State University

## APPLICATION DESCRIPTION

	<b>A</b>
Application Date:	Jun-29-01
Time of Day:	11-12 AM
Application Method:	SPRAY
Application Timing:	E.MIDPOST
Applic. Placement:	BDCST
Air Temp., Unit:	85
% Relative Humidity:	76
Wind Velocity, Unit:	3 MPH
Dew Presence (Y/N):	N
Soil Moisture:	DRY
% Cloud Cover:	50

## CROP STAGE AT EACH APPLICATION

	<b>A</b>
Crop 1 Code, Stage:	ZEAMX M-POST
Stage Scale:	4-6 LF
Height, Unit:	7 INCH

## WEED STAGE AT EACH APPLICATION

	<b>A</b>
	MID-POST
Stage Scale:	NONE
Density, Unit:	NONE NONE

## APPLICATION EQUIPMENT

	<b>A</b>
Appl. Equipment:	CO2 PLOT
Operating Pressure:	35 PSI
Nozzle Type:	FFAN
Nozzle Size:	8002VS
Nozzle Spacing, Unit:	12 IN
Nozzles/Row:	10
Band Width, Unit:	10 FT
Boom Height, Unit:	18 IN
Ground Speed, Unit:	4 MPH
Carrier:	H2O
Spray Volume, Unit:	20 GPA
Propellant:	CO2

# The Ohio State University

## TOLERANCE OF FIFTEEN SWEET CORN VARIETIES TO PERMIT

Trial ID: PERMSCW 2001  
Location: WOOSTER, OHIO

Study Dir.: DR.DOUGLAS DOOHAN AND T.KOCH  
Investigator: DR. DOUGLAS J. DOOHAN

### Trial Comments

50% TASSLING = % OF ROW THAT IS 50% TASSLED OR GREATER WE EXPERIENCED DROUGHT CONDITIONS ALL SUMMER WHICH AFFECTED PLANT STAND & YIELD  
. PLANT HEIGHT AND TILLER NUMBER CONSISTS OF THE AVERAGE OF SIX CORN PLANTS CHOSEN AT FIXED INTERVALS IN THE PLOT CENTER. THE TOTAL EAR NUMBER AND TOTAL WEIGHT ON " SENECA DAYBREAK" WERE NOT TAKEN ( BY MISTAKE ) YIELDS ARE BASED ON 40 LINEAR FEET OF ROW. ALL EARS WERE HARVESTED , COUNTED AND WEIGHED. THE MARKETABLE EARS ( MKTB. ) WERE THEN SELECTED FROM THESE , COUNTED AND WEIGHED ( WITH HUSKS ) WEIGHTS ARE IN POUNDS.

# The Ohio State University

## TOLERANCE OF FIFTEEN SWEET CORN VARIETIES TO PERMIT

Trial ID: PERMSCW 2001

Study Dir.: DR.DOUGLAS DOOHAN AND T.KOCH

Location: WOOSTER, OHIO

Investigator: DR. DOUGLAS J. DOOHAN

Crop Code					ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated								
Rating Data Type					STAND	CHLOROS	STUNT	TWIST
Rating Unit					COUNT	PERCENT	PERCENT	PERCENT
Rating Date					Jul-06-01	Jul-13-01	Jul-13-01	Jul-13-01
Crop Stage								
# Subsamples, Dec.					0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4
1	CONTROL SENECA DANCER				24 a	0 f	0 e	0 f
2	CONTROL TEMPTATION				29 a	0 f	0 e	0 f
3	CONTROL SWEET RHYTHM				28 a	0 f	0 e	0 f
4	CONTROL AMAZINGLY SWEET				29 a	0 f	0 e	0 f
5	CONTROL KANDY KING				33 a	0 f	0 e	0 f
6	CONTROL IMACULATA				29 a	0 f	0 e	0 f
7	CONTROL FORTUNE				30 a	0 f	0 e	0 f
8	CONTROL CONFECTION				27 a	0 f	0 e	0 f
9	CONTROL BANDIT				30 a	0 f	0 e	0 f
10	CONTROL SENECA DAYBREAK				29 a	0 f	0 e	0 f
11	CONTROL SENSOR				27 a	0 f	0 e	0 f
12	CONTROL ICE QUEEN				28 a	0 f	0 e	0 f
13	CONTROL XTRA TENDER				27 a	0 f	0 e	0 f
14	CONTROL CANDY CORNER				32 a	0 f	0 e	0 f
15	CONTROL SILVER KING				29 a	0 f	0 e	0 f
16	PERMIT LOW SENECA DANCER	0.67 OZ/A		POST	19 a	3 def	0 e	7 cde
17	PERMIT LOW TEMPTATION	0.67 OZ/A		POST	29 a	5 c-f	0 e	8 b-e
18	PERMIT LOW SWEET RHYTHM	0.67 OZ/A		POST	32 a	2 ef	0 e	7 cde
19	PERMIT LOW AMAZINGLY SWEET	0.67 OZ/A		POST	27 a	3 def	2 de	3 ef
20	PERMIT LOW KANDY KING	0.67 OZ/A		POST	27 a	3 def	12 ab	7 cde
21	PERMIT LOW IMACULATA	0.67 OZ/A		POST	24 a	5 c-f	5 b-e	5 def

# The Ohio State University

Crop Code					ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated								
Rating Data Type					STAND	CHLOROS	STUNT	TWIST
Rating Unit					COUNT	PERCENT	PERCENT	PERCENT
Rating Date					Jul-06-01	Jul-13-01	Jul-13-01	Jul-13-01
Crop Stage								
# Subsamples, Dec.					0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4
22	PERMIT LOW FORTUNE	0.67	OZ/A	POST	32 a	5 c-f	0 e	12 abc
23	PERMIT LOW CONFECTION	0.67	OZ/A	POST	27 a	5 c-f	3 cde	8 b-e
24	PERMIT LOW BANDIT	0.67	OZ/A	POST	28 a	2 ef	0 e	7 cde
25	PERMIT LOW SENECA DAYBREAK	0.67	OZ/A	POST	25 a	0 f	0 e	8 b-e
26	PERMIT LOW SENSOR	0.67	OZ/A	POST	26 a	7 b-e	5 b-e	10 a-d
27	PERMIT LOW ICE QUEEN	0.67	OZ/A	POST	30 a	12 ab	0 e	10 a-d
28	PERMIT LOW XTRA TENDER	0.67	OZ/A	POST	28 a	7 b-e	7 a-e	10 a-d
29	PERMIT LOW CANDY CORNER	0.67	OZ/A	POST	29 a	5 c-f	2 de	8 b-e
30	PERMIT LOW SILVER KING	0.67	OZ/A	POST	27 a	8 a-d	2 de	13 ab
31	PERMIT HIGH SENECA DANCER	1.33	OZ/A	POST	28 a	3 def	0 e	7 cde
32	PERMIT HIGH TEMPTATION	1.33	OZ/A	POST	28 a	10 abc	3 cde	10 a-d
33	PERMIT HIGH SWEET RHYTHM	1.33	OZ/A	POST	30 a	5 c-f	3 cde	7 cde
34	PERMIT HIGH AMAZINGLY SWEET	1.33	OZ/A	POST	24 a	3 def	7 a-e	5 def
35	PERMIT HIGH KANDY KING	1.33	OZ/A	POST	31 a	13 a	13 a	10 a-d
36	PERMIT HIGH IMACULATA	1.33	OZ/A	POST	25 a	5 c-f	8 a-d	3 ef
37	PERMIT HIGH FORTUNE	1.33	OZ/A	POST	30 a	10 abc	10 abc	15 a
38	PERMIT HIGH CONFECTION	1.33	OZ/A	POST	29 a	10 abc	5 b-e	8 b-e
39	PERMIT HIGH BANDIT	1.33	OZ/A	POST	27 a	7 b-e	7 a-e	5 def
40	PERMIT HIGH SENECA DAYBREAK	1.33	OZ/A	POST	24 a	3 def	7 a-e	7 cde
41	PERMIT HIGH SENSOR	1.33	OZ/A	POST	29 a	12 ab	10 abc	12 abc
42	PERMIT HIGH ICE QUEEN	1.33	OZ/A	POST	29 a	13 a	3 cde	15 a
43	PERMIT HIGH XTRA TENDER	1.33	OZ/A	POST	25 a	8 a-d	3 cde	13 ab
44	PERMIT HIGH CANDY CORNER	1.33	OZ/A	POST	30 a	13 a	3 cde	10 a-d

# The Ohio State University

Crop Code					ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated								
Rating Data Type					STAND	CHLOROS	STUNT	TWIST
Rating Unit					COUNT	PERCENT	PERCENT	PERCENT
Rating Date					Jul-06-01	Jul-13-01	Jul-13-01	Jul-13-01
Crop Stage								
# Subsamples, Dec.					0	0	0	0
Trt	Treatment	Product	Product	Grow				
No.	Name	Rate	Rate Unit	Stg	1	2	3	4
45	PERMIT HIGH SILVER KING	1.33	OZ/A	POST	24 a	10 abc	3 cde	15 a
LSD (P=.05)					7.4	5.9	8.0	5.6
Standard Deviation					4.5	3.6	4.9	3.5
CV					16.36	82.44	178.36	58.63

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Crop Code					ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated					CHLOROS	STUNT	TWIST	50% & >
Rating Data Type					PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit					Jul-31-01	Jul-31-01	Jul-31-01	Jul-31-01
Rating Date								
Crop Stage								TASSLE
# Subsamples, Dec.					0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	5	6	7	8
1	CONTROL SENECA DANCER				0 a	0 d	0 f	0 i
2	CONTROL TEMPTATION				0 a	0 d	5 cde	23 d-i
3	CONTROL SWEET RHYTHM				0 a	0 d	0 f	27 d-i
4	CONTROL AMAZINGLY SWEET				0 a	0 d	0 f	0 i
5	CONTROL KANDY KING				0 a	0 d	0 f	95 ab
6	CONTROL IMACULATA				0 a	0 d	0 f	47 c-f
7	CONTROL FORTUNE				0 a	0 d	0 f	8 ghi
8	CONTROL CONFECTION				0 a	0 d	0 f	20 e-i
9	CONTROL BANDIT				0 a	0 d	0 f	0 i
10	CONTROL SENECA DAYBREAK				0 a	0 d	0 f	100 a
11	CONTROL SENSOR				0 a	0 d	0 f	15 f-i
12	CONTROL ICE QUEEN				0 a	0 d	0 f	32 c-i
13	CONTROL XTRA TENDER				0 a	0 d	0 f	0 i
14	CONTROL CANDY CORNER				0 a	0 d	0 f	2 i
15	CONTROL SILVER KING				0 a	0 d	0 f	0 i
16	PERMIT LOW SENECA DANCER	0.67 OZ/A		POST	0 a	0 d	0 f	0 i
17	PERMIT LOW TEMPTATION	0.67 OZ/A		POST	2 a	0 d	2 ef	45 c-g
18	PERMIT LOW SWEET RHYTHM	0.67 OZ/A		POST	0 a	2 cd	0 f	58 bcd
19	PERMIT LOW AMAZINGLY SWEET	0.67 OZ/A		POST	0 a	0 d	0 f	17 f-i
20	PERMIT LOW KANDY KING	0.67 OZ/A		POST	2 a	20 a	3 def	40 c-h
21	PERMIT LOW IMACULATA	0.67 OZ/A		POST	0 a	3 cd	3 def	18 f-i
22	PERMIT LOW FORTUNE	0.67 OZ/A		POST	0 a	3 cd	3 def	57 cde
23	PERMIT LOW CONFECTION	0.67 OZ/A		POST	0 a	3 cd	2 ef	47 c-f



# The Ohio State University

Crop Code					ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated								
Rating Data Type					CHLOROS	STUNT	TWIST	50% & >
Rating Unit					PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					Jul-31-01	Jul-31-01	Jul-31-01	Jul-31-01
Crop Stage								TASSLE
# Subsamples, Dec.					0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	5	6	7	8
24	PERMIT LOW BANDIT	0.67	OZ/A	POST	0 a	2 cd	12 a	0 i
25	PERMIT LOW SENECA DAYBREAK	0.67	OZ/A	POST	0 a	2 cd	3 def	100 a
26	PERMIT LOW SENSOR	0.67	OZ/A	POST	0 a	2 cd	0 f	0 i
27	PERMIT LOW ICE QUEEN	0.67	OZ/A	POST	0 a	0 d	2 ef	20 e-i
28	PERMIT LOW XTRA TENDER	0.67	OZ/A	POST	0 a	3 cd	0 f	0 i
29	PERMIT LOW CANDY CORNER	0.67	OZ/A	POST	0 a	0 d	3 def	0 i
30	PERMIT LOW SILVER KING	0.67	OZ/A	POST	0 a	0 d	5 cde	0 i
31	PERMIT HIGH SENECA DANCER	1.33	OZ/A	POST	0 a	3 cd	7 bcd	0 i
32	PERMIT HIGH TEMPTATION	1.33	OZ/A	POST	0 a	0 d	8 abc	57 cde
33	PERMIT HIGH SWEET RHYTHM	1.33	OZ/A	POST	0 a	0 d	0 f	45 c-g
34	PERMIT HIGH AMAZINGLY SWEET	1.33	OZ/A	POST	0 a	5 bcd	0 f	23 d-i
35	PERMIT HIGH KANDY KING	1.33	OZ/A	POST	0 a	12 b	8 abc	65 abc
36	PERMIT HIGH IMACULATA	1.33	OZ/A	POST	0 a	0 d	3 def	12 f-i
37	PERMIT HIGH FORTUNE	1.33	OZ/A	POST	0 a	8 bc	10 ab	5 hi
38	PERMIT HIGH CONFECTION	1.33	OZ/A	POST	0 a	3 cd	3 def	37 c-i
39	PERMIT HIGH BANDIT	1.33	OZ/A	POST	0 a	2 cd	3 def	28 c-i
40	PERMIT HIGH SENECA DAYBREAK	1.33	OZ/A	POST	0 a	0 d	5 cde	98 a
41	PERMIT HIGH SENSOR	1.33	OZ/A	POST	0 a	2 cd	0 f	0 i
42	PERMIT HIGH ICE QUEEN	1.33	OZ/A	POST	0 a	0 d	5 cde	3 hi
43	PERMIT HIGH XTRA TENDER	1.33	OZ/A	POST	0 a	7 bcd	0 f	7 hi
44	PERMIT HIGH CANDY CORNER	1.33	OZ/A	POST	0 a	2 cd	3 def	10 f-i

# The Ohio State University

					ZEAMS	ZEAMS	ZEAMS	ZEAMS
Crop Code					CHLOROS	STUNT	TWIST	50% & >
Part Rated					PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type					Jul-31-01	Jul-31-01	Jul-31-01	Jul-31-01
Rating Unit								TASSLE
Rating Date								
Crop Stage								
# Subsamples, Dec.					0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg				
45	PERMIT HIGH SILVER KING	1.33	OZ/A	POST	5 0 a	6 0 d	7 7 bcd	8 0 i
LSD (P=.05)					1.0	7.6	4.5	37.2
Standard Deviation					0.6	4.7	2.8	22.8
CV					826.24	252.65	117.05	88.43

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Crop Code					ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated					CORN HT.	TILLER	50% & >	EARS
Rating Data Type					(CM.)	NUMBER	PERCENT	TOTAL
Rating Unit					Jul-31-01	Jul-31-01	Aug-06-01	NUMBER
Rating Date							TASSLE <th>Aug-15-01</th>	Aug-15-01
Crop Stage								HARVEST
# Subsamples, Dec.					0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	9	10	11	12
1	CONTROL SENECA DANCER				32 kl	0 a	40 c	23 f-i
2	CONTROL TEMPTATION				59 a-g	0 a	100 a	28 a-i
3	CONTROL SWEET RHYTHM				66 abc	0 a	100 a	35 a-f
4	CONTROL AMAZINGLY SWEET				37 h-l	0 a	92 ab	29 a-i
5	CONTROL KANDY KING				66 a-d	0 a	100 a	23 d-i
6	CONTROL IMACULATA				69 a	0 a	100 a	31 a-i
7	CONTROL FORTUNE				45 e-l	0 a	87 ab	31 a-i
8	CONTROL CONFECTION				53 a-j	0 a	95 a	28 a-i
9	CONTROL BANDIT				40 g-l	0 a	90 ab	22 ghi
10	CONTROL SENECA DAYBREAK				67 ab	0 a	100 a	
11	CONTROL SENSOR				66 abc	0 a	100 a	36 a-e
12	CONTROL ICE QUEEN				63 a-e	0 a	83 ab	40 a
13	CONTROL XTRA TENDER				35 i-l	0 a	88 ab	25 c-i
14	CONTROL CANDY CORNER				48 b-l	0 a	83 ab	36 a-e
15	CONTROL SILVER KING				54 a-i	0 a	70 b	31 a-i
16	PERMIT LOW SENECA DANCER	0.67 OZ/A		POST	65 a-d	0 a	97 a	22 ghi
17	PERMIT LOW TEMPTATION	0.67 OZ/A		POST	52 a-j	0 a	100 a	27 c-i
18	PERMIT LOW SWEET RHYTHM	0.67 OZ/A		POST	43 f-l	0 a	100 a	35 a-f
19	PERMIT LOW AMAZINGLY SWEET	0.67 OZ/A		POST	51 a-k	0 a	93 ab	20 hi
20	PERMIT LOW KANDY KING	0.67 OZ/A		POST	30 l	0 a	100 a	23 d-i
21	PERMIT LOW IMACULATA	0.67 OZ/A		POST	46 c-l	0 a	100 a	24 d-i
22	PERMIT LOW FORTUNE	0.67 OZ/A		POST	48 b-l	0 a	100 a	31 a-i
23	PERMIT LOW CONFECTION	0.67 OZ/A		POST	50 a-k	0 a	97 a	27 c-i

# The Ohio State University

Crop Code					ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated					CORN HT.	TILLER	50% & >	EARS
Rating Data Type					(CM.)	NUMBER	PERCENT	TOTAL
Rating Unit					Jul-31-01	Jul-31-01	Aug-06-01	NUMBER
Rating Date							TASSLE <th>Aug-15-01</th>	Aug-15-01
Crop Stage								HARVEST
# Subsamples, Dec.					0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	9	10	11	12
24	PERMIT LOW BANDIT	0.67	OZ/A	POST	55 a-h	0 a	92 ab	29 a-i
25	PERMIT LOW SENECA DAYBREAK	0.67	OZ/A	POST	33 jkl	0 a	100 a	0 j
26	PERMIT LOW SENSOR	0.67	OZ/A	POST	53 a-j	0 a	100 a	19 i
27	PERMIT LOW ICE QUEEN	0.67	OZ/A	POST	49 b-l	0 a	100 a	37 abc
28	PERMIT LOW XTRA TENDER	0.67	OZ/A	POST	50 a-l	0 a	97 a	26 c-i
29	PERMIT LOW CANDY CORNER	0.67	OZ/A	POST	53 a-j	0 a	100 a	40 ab
30	PERMIT LOW SILVER KING	0.67	OZ/A	POST	60 a-f	0 a	100 a	24 d-i
31	PERMIT HIGH SENECA DANCER	1.33	OZ/A	POST	64 a-e	0 a	97 a	27 c-i
32	PERMIT HIGH TEMPTATION	1.33	OZ/A	POST	47 c-l	0 a	100 a	27 b-i
33	PERMIT HIGH SWEET RHYTHM	1.33	OZ/A	POST	51 a-k	0 a	100 a	33 a-g
34	PERMIT HIGH AMAZINGLY SWEET	1.33	OZ/A	POST	49 a-l	0 a	97 a	23 e-i
35	PERMIT HIGH KANDY KING	1.33	OZ/A	POST	36 h-l	0 a	100 a	29 a-i
36	PERMIT HIGH IMACULATA	1.33	OZ/A	POST	58 a-g	0 a	100 a	28 a-i
37	PERMIT HIGH FORTUNE	1.33	OZ/A	POST	41 f-l	0 a	100 a	30 a-i
38	PERMIT HIGH CONFECTION	1.33	OZ/A	POST	48 b-l	0 a	100 a	33 a-h
39	PERMIT HIGH BANDIT	1.33	OZ/A	POST	50 a-k	0 a	77 ab	34 a-g
40	PERMIT HIGH SENECA DAYBREAK	1.33	OZ/A	POST	38 h-l	0 a	100 a	
41	PERMIT HIGH SENSOR	1.33	OZ/A	POST	59 a-g	0 a	100 a	23 d-i
42	PERMIT HIGH ICE QUEEN	1.33	OZ/A	POST	60 a-g	0 a	100 a	36 a-d
43	PERMIT HIGH XTRA TENDER	1.33	OZ/A	POST	46 d-l	0 a	100 a	27 c-i
44	PERMIT HIGH CANDY CORNER	1.33	OZ/A	POST	43 f-l	0 a	87 ab	29 a-i

# The Ohio State University

Crop Code					ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated								EARS
Rating Data Type					CORN HT.	TILLER	50% & >	TOTAL
Rating Unit					(CM.)	NUMBER	PERCENT	NUMBER
Rating Date					Jul-31-01	Jul-31-01	Aug-06-01	Aug-15-01
Crop Stage							TASSLE	HARVEST
# Subsamples, Dec.					0	0	0	0
Trt	Treatment	Product	Product	Grow				
No.	Name	Rate	Rate Unit	Stg	9	10	11	12
45	PERMIT HIGH SILVER KING	1.33	OZ/A	POST	59 a-g	0 a	97 a	19 i
LSD (P=.05)					20.2	0.0	24.3	12.8
Standard Deviation					12.4	0.0	14.9	7.8
CV					24.36	0.0	15.7	28.03

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Crop Code					ZEAMS	ZEAMS	ZEAMS
Part Rated					EARS	EARS	EARS
Rating Data Type					TOTAL WT	MKTB.	MKTB.WT.
Rating Unit					POUNDS	NUMBER	POUNDS
Rating Date					Aug-15-01	Aug-15-01	Aug-15-01
Crop Stage					HARVEST	HARVEST	HARVEST
# Subsamples, Dec.						0	
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15
1	CONTROL SENECA DANCER				10.43 e-i	6 hi	4.43 f-j
2	CONTROL TEMPTATION				12.47 b-i	16 a-h	8.17 b-j
3	CONTROL SWEET RHYTHM				16.33 a-e	14 a-i	9.07 a-j
4	CONTROL AMAZINGLY SWEET				14.20 a-i	9 f-i	5.27 e-j
5	CONTROL KANDY KING				11.50 d-i	14 a-i	8.67 b-j
6	CONTROL IMACULATA				18.87 abc	16 a-g	12.03 a-d
7	CONTROL FORTUNE				12.43 b-i	13 b-i	6.67 d-j
8	CONTROL CONFECTION				13.37 a-i	14 a-i	9.00 a-j
9	CONTROL BANDIT				8.30 hi	6 hi	4.17 g-j
10	CONTROL SENECA DAYBREAK					15 a-i	7.60 c-j
11	CONTROL SENSOR				18.67 abc	19 a-d	14.20 abc
12	CONTROL ICE QUEEN				16.50 a-e	12 b-i	7.63 c-j
13	CONTROL XTRA TENDER				9.07 f-i	7 ghi	3.67 hij
14	CONTROL CANDY CORNER				13.80 a-i	10 d-i	6.40 d-j
15	CONTROL SILVER KING				14.77 a-h	13 b-i	8.50 b-j
16	PERMIT LOW SENECA DANCER	0.67 OZ/A		POST	14.10 a-i	13 b-i	10.53 a-g
17	PERMIT LOW TEMPTATION	0.67 OZ/A		POST	12.10 c-i	16 a-h	8.50 b-j
18	PERMIT LOW SWEET RHYTHM	0.67 OZ/A		POST	18.53 a-d	21 ab	13.97 abc
19	PERMIT LOW AMAZINGLY SWEET	0.67 OZ/A		POST	8.33 ghi	7 ghi	4.20 g-j
20	PERMIT LOW KANDY KING	0.67 OZ/A		POST	7.67 i	6 i	2.97 j
21	PERMIT LOW IMACULATA	0.67 OZ/A		POST	12.13 c-i	11 c-i	7.20 d-j
22	PERMIT LOW FORTUNE	0.67 OZ/A		POST	14.80 a-h	16 a-h	9.73 a-i
23	PERMIT LOW CONFECTION	0.67 OZ/A		POST	14.73 a-i	19 a-e	11.50 a-e

# The Ohio State University

Crop Code					ZEAMS	ZEAMS	ZEAMS
Part Rated					EARS	EARS	EARS
Rating Data Type					TOTAL WT	MKTB.	MKTB.WT.
Rating Unit					POUNDS	NUMBER	POUNDS
Rating Date					Aug-15-01	Aug-15-01	Aug-15-01
Crop Stage					HARVEST	HARVEST	HARVEST
# Subsamples, Dec.						0	
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15
24	PERMIT LOW BANDIT	0.67	OZ/A	POST	15.77 a-f	15 a-i	10.80 a-g
25	PERMIT LOW SENECA DAYBREAK	0.67	OZ/A	POST		15 a-i	6.97 d-j
26	PERMIT LOW SENSOR	0.67	OZ/A	POST	8.80 f-i	8 f-i	4.93 e-j
27	PERMIT LOW ICE QUEEN	0.67	OZ/A	POST	19.90 a	23 a	15.47 a
28	PERMIT LOW XTRA TENDER	0.67	OZ/A	POST	10.93 e-i	6 i	3.13 ij
29	PERMIT LOW CANDY CORNER	0.67	OZ/A	POST	17.13 a-e	13 b-i	8.37 b-j
30	PERMIT LOW SILVER KING	0.67	OZ/A	POST	14.67 a-i	15 a-i	11.07 a-f
31	PERMIT HIGH SENECA DANCER	1.33	OZ/A	POST	19.43 ab	17 a-f	14.80 ab
32	PERMIT HIGH TEMPTATION	1.33	OZ/A	POST	12.87 a-i	21 abc	10.27 a-h
33	PERMIT HIGH SWEET RHYTHM	1.33	OZ/A	POST	14.80 a-h	14 a-i	8.80 a-j
34	PERMIT HIGH AMAZINGLY SWEET	1.33	OZ/A	POST	11.40 e-i	9 f-i	5.80 d-j
35	PERMIT HIGH KANDY KING	1.33	OZ/A	POST	11.90 c-i	12 b-i	6.67 d-j
36	PERMIT HIGH IMACULATA	1.33	OZ/A	POST	15.43 a-f	14 a-i	9.93 a-h
37	PERMIT HIGH FORTUNE	1.33	OZ/A	POST	11.90 c-i	11 c-i	6.07 d-j
38	PERMIT HIGH CONFECTION	1.33	OZ/A	POST	15.40 a-g	15 a-i	9.33 a-j
39	PERMIT HIGH BANDIT	1.33	OZ/A	POST	15.63 a-f	14 a-i	9.47 a-j
40	PERMIT HIGH SENECA DAYBREAK	1.33	OZ/A	POST		8 f-i	3.77 hij
41	PERMIT HIGH SENSOR	1.33	OZ/A	POST	13.57 a-i	15 a-i	10.97 a-f
42	PERMIT HIGH ICE QUEEN	1.33	OZ/A	POST	19.43 ab	21 ab	15.47 a
43	PERMIT HIGH XTRA TENDER	1.33	OZ/A	POST	10.93 e-i	9 e-i	4.80 e-j
44	PERMIT HIGH CANDY CORNER	1.33	OZ/A	POST	12.90 a-i	11 c-i	7.07 d-j

# The Ohio State University

Crop Code					ZEAMS	ZEAMS	ZEAMS
Part Rated					EARS	EARS	EARS
Rating Data Type					TOTAL WT	MKTB.	MKTB.WT.
Rating Unit					POUNDS	NUMBER	POUNDS
Rating Date					Aug-15-01	Aug-15-01	Aug-15-01
Crop Stage					HARVEST	HARVEST	HARVEST
# Subsamples, Dec.						0	
Trt	Treatment	Product	Product	Grow			
No.	Name	Rate	Rate Unit	Stg	13	14	15
45	PERMIT HIGH SILVER KING	1.33	OZ/A	POST	9.23 f-i	9 e-i	6.57 d-j
LSD (P=.05)					7.073	9.7	6.730
Standard Deviation					4.331	6.0	4.121
CV					31.63	45.54	49.51

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.



# The Ohio State University

## PROWL ON SWEET CORN STUDY

Trial ID: PROWLSCW 2001

Study Dir.: DR.DOUGLAS DOOHAN AND T.KOCH

Location: WOOSTER, OHIO

Investigator: DR. DOUGLAS J. DOOHAN

### GENERAL TRIAL INFORMATION

**Study Director:** DR. DOUGLAS J. DOOHAN AND T.KOCH**Title:** ASST. PROFESSOR**Affiliation:** OARDC/ THE OHIO STATE UNIVERSITY**Postal Code:** 44691**Investigator:** DR. DOUGLAS J. DOOHAN**Title:** ASST. PROFESSOR**Affiliation:** OARDC/THE OHIO STATE UNIVERSITY**Postal Code:** 44691

### TRIAL LOCATION

**City:** WOOSTER**State/Prov.:** OHIO**Postal Code:** 44691**Initiation Date:** Jun-12-01**Country:** USA**Directions:** FROM WOOSTER, TAKE RT. 250 EAST APPROX. 3 MILES TO OIL CITY RD. TURN SOUTH ON OIL CITY APPROX. 4 MI. TO FARM

### COOPERATOR/LANDOWNER

**Cooperator:** JOHN ELLIOT, FARM MGR.**Country:** USA**Org:** OARDC, HORT. UNIT 2**Phone No:** 330-263-3940**Address 1:** 5082 OIL CITY RD.**City:** WOOSTER**State/Prov:** OHIO**Postal Code:** 44691**Conducted Under GLP (Y/N):** N**Conducted Under GEP (Y/N):** N**Objective:** TO EVALUATE "PROWL" IN RELATION TO HERBICIDE LEVELS , DEPTH OF PLANTING AND POSSIBLE INJURY TO SWEET CORN.

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	PANDI	FALL PANICUM	PANICUM DICHOTOMIFLORUM ( MICHX. )

**Crop 1:** ZEA SWEET CORN**Variety:** TUXEDO**Planting Date:** Jun-11-01**Planting Method:** CONVENTIONAL**Rate:** 28000 SEEDS/A**Row Spacing:** 30 IN**Seed Bed:** CONVENTIONAL**Emergence Date:** Jun-18-01

### SITE AND DESIGN

**Plot Width, Unit:** 10 FT**Plot Length, Unit:** 25 FT**Reps:** 4**Site Type:** LEVEL FIELD**Tillage Type:** CONVENTIONAL**Study Design:** SPLIT-PLOT

### MAINTENANCE

**Field Prep./Maintenance:** PLOT PLOWED AND DISCED LATE

APRIL. FERTILIZER, (20-20-20)

APPLIED @ 500 #/A ON 4/30/01. AATREX @ 1 QT./A &amp; ROUNDUP ULTRA @ 1 QT./A

APPLIED TOGETHER ON 6/13/01. "WARRIOR" INSECTICIDE FOR FLEABEETLES APPLIED ON

6/23 &amp; 7/3 @ 3OZ.&amp; 6 OZ./A RESPECTIVELY. ALSO APPLIED ON 8/8 &amp; 8/15 @ 3 OZ./A

FOR CORN EARWORM CONTROL.

# The Ohio State University

## SOIL DESCRIPTION

% Sand: 11	% OM: 3	Texture: SILT LOAM
% Silt: 75	pH: 6	Soil Name: WOOSTER SILT LOAM
% Clay: 14	CEC: 13	Fert. Level: MODERATE

## APPLICATION DESCRIPTION

	A	B
Application Date:	Jun-12-01	Jun-18-01
Time of Day:	10-11 AM	11-12 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	SPIKE
Applic. Placement:	BDCST	BDCST
Air Temp., Unit:	65 F	71 F
% Relative Humidity:	85	67
Wind Velocity, Unit:	2 MPH	3 MPH
Dew Presence (Y/N):	N	N
% Cloud Cover:	50	80

## CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEA PRE	ZEA SPIKE
Stage Scale:	NONE	SPIKE/1-L
Height, Unit:	NONE	1 INCH

## WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	PANDI PRE	PANDI SPIKE
Stage Scale:	NONE	NONE
	NONE	NONE

## APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	CO2 PLOT	CO2 PLOT
Operating Pressure:	35	35
Nozzle Type:	FFAN	FFAN
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:	18 IN	18 IN
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	H2O	H2O
Spray Volume, Unit:	20 GPA	20 GPA
Propellant:	CO2	CO2

# The Ohio State University

## PROWL ON SWEET CORN STUDY

Trial ID: PROWLSCW 2001

Study Dir.: DR.DOUGLAS DOOHAN AND T.KOCH

Location: WOOSTER, OHIO

Investigator: DR. DOUGLAS J. DOOHAN

### Trial Comments

\*

STAND COUNTS AND YIELD WAS TAKEN FROM THE 2 CENTER ROWS OF THE 4 ROW PLOT (10' X 25')

YIELDS REFLECT THE SUM OF 50 LINEAR FEET OF ROW ; ALL EARS WERE HARVESTED , COUNTED AND WEIGHED ( IN POUNDS ). THE MARKETABLE EARS WERE THEN SELECTED FROM THESE , COUNTED AND WEIGHED.

EAR WEIGHTS WITH AND WITHOUT HUSKS ARE GIVEN . "M.WTS." = MARKETABLE WEIGHTS. WE EXPERIENCED

DROUGHT CONDITIONS THIS SUMMER, WHICH AFFECTED PLANT GROWTH AND YIELDS.

# The Ohio State University

## PROWL ON SWEET CORN STUDY

Trial ID: PROWLSCW 2001  
Location: WOOSTER, OHIO

Study Dir.: DR. DOUGLAS DOOHAN AND T. KOCH  
Investigator: DR. DOUGLAS J. DOOHAN

Weed Code					ZEAMS	ZEAMS	ZEAMS	ZEAMS	PANDI
Crop Code						ROOT			ZEAMS
Part Rated						DEPTH			
Rating Data Type					STAND	INCHES	INJURY	STUNT	CONTROL
Rating Unit					COUNT		PERCENT	PERCENT	PERCENT
Rating Date					Jun-29-01	Jul-09-01	Jul-15-01	Jul-15-01	Jul-15-01
# Subsamples, Dec.					0	0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
1	SURFACE CONTROL PRE				23 e	0 g	0 a	0 a	0 e
2	SURFACE CONTROL SPIKE				22 e	0 g	0 a	0 a	0 e
3	SURFACE PROWL PRE	2.42	QT/A		26 de	0 g	0 a	3 a	85 ab
4	SURFACE PROWL SPIKE	2.42	QT/A		22 e	0 g	0 a	4 a	84 abc
5	SURFACE DUAL MAGNUM PRE	1.35	QT/A		26 de	0 g	0 a	0 a	86 a
6	SURFACE DUAL MAGNUM SPIKE	1.35	QT/A		26 de	0 g	0 a	3 a	85 ab
7	ONE INCH CONTROL PRE				34 ab	1 def	0 a	0 a	0 e
8	ONE INCH CONTROL SPIKE				35 ab	1 ef	0 a	0 a	0 e
9	ONE INCH PROWL PRE	2.42	QT/A		36 a	1 f	0 a	0 a	80 cd
10	ONE INCH PROWL SPIKE	2.42	QT/A		33 abc	1 def	0 a	1 a	79 d
11	ONE INCH DUAL MAGNUM PRE	1.35	QT/A		37 a	1 f	0 a	3 a	83 a-d
12	ONE INCH DUAL MAGNUM SPIKE	1.35	QT/A		31 a-d	1 def	0 a	5 a	84 abc
13	TWO INCH CONTROL PRE				29 b-e	2 abc	0 a	0 a	0 e
14	TWO INCH CONTROL SPIKE				31 a-d	2 abc	0 a	0 a	0 e

# The Ohio State University

Weed Code					ZEAMS	ZEAMS	ZEAMS	ZEAMS	PANDI
Crop Code						ROOT			ZEAMS
Part Rated						DEPTH			
Rating Data Type					STAND	INCHES	INJURY	STUNT	CONTROL
Rating Unit					COUNT		PERCENT	PERCENT	PERCENT
Rating Date					Jun-29-01	Jul-09-01	Jul-15-01	Jul-15-01	Jul-15-01
# Subsamples, Dec.					0	0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
15	TWO INCH PROWL PRE	2.42	QT/A		31 a-d	1 cde	0 a	4 a	81 bcd
16	TWO INCH PROWL SPIKE	2.42	QT/A		27 cde	2 ab	0 a	5 a	81 bcd
17	TWO INCH DUAL MAGNUM PRE	1.35	QT/A		33 abc	2 a	0 a	0 a	84 abc
18	TWO INCH DUAL MAGNUM SPIKE	1.35	QT/A		32 a-d	1 bcd	0 a	0 a	85 ab
LSD (P=.05)					7.2	0.4	0.0	5.0	4.7
Standard Deviation					5.1	0.3	0.0	3.6	3.4
CV					17.15	28.14	0.0	244.74	6.06

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					ZEAMS	ZEAMS	PANDI ZEAMS	BROADLF. ZEAMS
Crop Code								
Part Rated								
Rating Data Type					INJURY	STUNT	CONTROL	CONTROL
Rating Unit					PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					Aug-07-01	Aug-07-01	Aug-07-01	Aug-07-01
# Subsamples, Dec.					0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9
1	SURFACE CONTROL PRE				0 a	5 a	10 c	25 b
2	SURFACE CONTROL SPIKE				0 a	5 a	0 c	0 b
3	SURFACE PROWL PRE	2.42	QT/A		0 a	3 a	75 a	99 a
4	SURFACE PROWL SPIKE	2.42	QT/A		0 a	9 a	80 a	74 a
5	SURFACE DUAL MAGNUM PRE	1.35	QT/A		0 a	5 a	79 a	99 a
6	SURFACE DUAL MAGNUM SPIKE	1.35	QT/A		0 a	8 a	80 a	99 a
7	ONE INCH CONTROL PRE				0 a	0 a	0 c	0 b
8	ONE INCH CONTROL SPIKE				0 a	0 a	0 c	0 b
9	ONE INCH PROWL PRE	2.42	QT/A		0 a	3 a	63 ab	74 a
10	ONE INCH PROWL SPIKE	2.42	QT/A		0 a	5 a	48 b	99 a
11	ONE INCH DUAL MAGNUM PRE	1.35	QT/A		0 a	3 a	61 ab	99 a
12	ONE INCH DUAL MAGNUM SPIKE	1.35	QT/A		0 a	6 a	61 ab	99 a
13	TWO INCH CONTROL PRE				0 a	0 a	13 c	25 b
14	TWO INCH CONTROL SPIKE				0 a	1 a	0 c	0 b
15	TWO INCH PROWL PRE	2.42	QT/A		0 a	8 a	63 ab	99 a

## The Ohio State University

Weed Code					ZEAMS	ZEAMS	PANDI ZEAMS	BROADLF. ZEAMS
Crop Code								
Part Rated								
Rating Data Type					INJURY	STUNT	CONTROL	CONTROL
Rating Unit					PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					Aug-07-01	Aug-07-01	Aug-07-01	Aug-07-01
# Subsamples, Dec.					0	0	0	0
Trt	Treatment	Product	Product	Grow				
No.	Name	Rate	Rate Unit	Stg	6	7	8	9
16	TWO INCH PROWL SPIKE	2.42	QT/A		1 a	5 a	65 ab	99 a
17	TWO INCH DUAL MAGNUM PRE	1.35	QT/A		0 a	4 a	80 a	99 a
18	TWO INCH DUAL MAGNUM SPIKE	1.35	QT/A		0 a	6 a	75 a	99 a
LSD (P=.05)					0.8	9.0	25.8	32.0
Standard Deviation					0.6	6.3	18.2	22.6
CV					848.53	154.67	38.57	34.3

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Crop Code					TASSLE	HEIGHT	EARS	EARS	EARS
Part Rated					PERCENT	INCHES	YIELD	YIELD	YIELD
Rating Data Type					Aug-07-01	Aug-14-01	TOTAL #	WT./LBS.	MARKET.#
Rating Unit					0	0	0	0	0
Rating Date					0	0	0	0	0
# Subsamples, Dec.					0	0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	10	11	12	13	14
1	SURFACE CONTROL PRE				80 a	47 a	16 ef	5.05 a	3 a
2	SURFACE CONTROL SPIKE				63 a	49 a	22 b-f	5.10 a	2 a
3	SURFACE PROWL PRE	2.42	QT/A		81 a	52 a	20 c-f	7.40 a	8 a
4	SURFACE PROWL SPIKE	2.42	QT/A		86 a	51 a	20 c-f	7.05 a	7 a
5	SURFACE DUAL MAGNUM PRE	1.35	QT/A		84 a	51 a	24 a-d	9.40 a	9 a
6	SURFACE DUAL MAGNUM SPIKE	1.35	QT/A		75 a	48 a	25 a-d	8.00 a	6 a
7	ONE INCH CONTROL PRE				85 a	49 a	28 ab	7.93 a	4 a
8	ONE INCH CONTROL SPIKE				84 a	53 a	25 a-d	8.10 a	7 a
9	ONE INCH PROWL PRE	2.42	QT/A		83 a	52 a	29 a	7.15 a	7 a
10	ONE INCH PROWL SPIKE	2.42	QT/A		86 a	53 a	27 abc	6.35 a	5 a
11	ONE INCH DUAL MAGNUM PRE	1.35	QT/A		91 a	55 a	26 a-d	9.02 a	8 a
12	ONE INCH DUAL MAGNUM SPIKE	1.35	QT/A		85 a	51 a	23 a-f	7.80 a	8 a
13	TWO INCH CONTROL PRE				79 a	53 a	22 a-f	6.93 a	5 a
14	TWO INCH CONTROL SPIKE				83 a	53 a	21 b-f	6.65 a	6 a
15	TWO INCH PROWL PRE	2.42	QT/A		81 a	52 a	19 def	6.45 a	6 a



## The Ohio State University

Weed Code					ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Crop Code					TASSLE	HEIGHT	EARS	EARS	EARS
Part Rated					PERCENT	INCHES	YIELD	YIELD	YIELD
Rating Data Type					Aug-07-01	Aug-14-01	Aug-29-01	Aug-29-01	Aug-29-01
Rating Unit					0	0	0	0	0
Rating Date									
# Subsamples, Dec.									
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	10	11	12	13	14
16	TWO INCH PROWL SPIKE	2.42	QT/A		79 a	49 a	16 f	4.18 a	2 a
17	TWO INCH DUAL MAGNUM PRE	1.35	QT/A		78 a	49 a	26 a-d	9.80 a	10 a
18	TWO INCH DUAL MAGNUM SPIKE	1.35	QT/A		76 a	49 a	23 a-e	8.20 a	7 a
LSD (P=.05)					22.4	7.7	7.3	4.014	5.2
Standard Deviation					15.8	5.4	5.2	2.839	3.7
CV					19.56	10.7	22.85	39.14	62.33

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					ZEAMS	ZEAMS
Crop Code					EARS	EARS
Part Rated					M.WT./LB	M.WT./LB
Rating Data Type					W/HUSK	W/O HUSK
Rating Unit					Aug-29-01	Aug-29-01
Rating Date						
# Subsamples, Dec.						
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	15	16
1	SURFACE CONTROL PRE				1.50 a	1.15 a
2	SURFACE CONTROL SPIKE				0.98 a	0.73 a
3	SURFACE PROWL PRE	2.42	QT/A		3.93 a	2.83 a
4	SURFACE PROWL SPIKE	2.42	QT/A		3.57 a	2.68 a
5	SURFACE DUAL MAGNUM PRE	1.35	QT/A		5.05 a	3.57 a
6	SURFACE DUAL MAGNUM SPIKE	1.35	QT/A		2.68 a	1.97 a
7	ONE INCH CONTROL PRE				2.05 a	1.55 a
8	ONE INCH CONTROL SPIKE				3.40 a	2.57 a
9	ONE INCH PROWL PRE	2.42	QT/A		3.38 a	2.57 a
10	ONE INCH PROWL SPIKE	2.42	QT/A		2.28 a	1.75 a
11	ONE INCH DUAL MAGNUM PRE	1.35	QT/A		3.78 a	2.90 a
12	ONE INCH DUAL MAGNUM SPIKE	1.35	QT/A		2.65 a	2.78 a
13	TWO INCH CONTROL PRE				2.30 a	1.78 a
14	TWO INCH CONTROL SPIKE				3.02 a	2.25 a
15	TWO INCH PROWL PRE	2.42	QT/A		3.00 a	2.28 a

## The Ohio State University

Weed Code					ZEAMS	ZEAMS
Crop Code					EARS	EARS
Part Rated					M.WT./LB	M.WT./LB
Rating Data Type					W/HUSK	W/O HUSK
Rating Unit					Aug-29-01	Aug-29-01
Rating Date						
# Subsamples, Dec.						
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg		
16	TWO INCH PROWL SPIKE	2.42	QT/A		15 0.88 a	16 0.63 a
17	TWO INCH DUAL MAGNUM PRE	1.35	QT/A		5.10 a	3.78 a
18	TWO INCH DUAL MAGNUM SPIKE	1.35	QT/A		3.30 a	2.55 a
LSD (P=.05)					2.941	2.182
Standard Deviation					2.080	1.543
CV					70.87	68.91

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

## HERBICIDE PROGRAMS FOR PROCESSING TOMATOES

Trial ID: TOMATFREM 2001`

Study Dir.: DR.DOUGLAS J.DOOHAN AND T.KOCH

Location: FREMONT,OHIO

Investigator: DR. DOUGLAS J. DOOHAN

### GENERAL TRIAL INFORMATION

**Study Director:** DR. DOUGLAS J.DOOHAN AND T.KOCH**Title:** ASST. PROFESSOR**Affiliation:** OARDC/ THE OHIO STATE UNIVERSITY**Postal Code:** 44691**Investigator:** DR. DOUGLAS J.DOOHAN AND T.KOCH**Title:** ASST. PROFESSOR**Affiliation:** OARDC/THE OHIO STATE UNIVERSITY**Postal Code:** 44691

### TRIAL LOCATION

**City:** FREMONT**State/Prov.:** OHIO**Postal Code:** 43420**Country:** USA**Directions:** CORNER OF CR 43 AND SR 53, SOUTHWEST OF FREMONT, OHIO (SANDUSKY COUNTY)

### COOPERATOR/LANDOWNER

**Cooperator:** MATT HOFELICH**Country:** USA**Org:** OARDC VEG. CROPS RESEARCH BRANCH**Phone No:** 419-332-5142**Address 1:** 1165 CR 43**City:** FREMONT**State/Prov:** OHIO**Postal Code:** 43420**Conducted Under GLP (Y/N):** N**Conducted Under GEP (Y/N):** N**Objective:** TO SUPPORT LABELING DUAL MAGNUM FOR PPI,POST OVER THE TOP,OR POST DIRECTED APPLICATIONS IN TRANSPLANTED TOMATOES.

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDICUS
2.	AMAXX	PIGWEEED SPECIES	AMARANTH SPP.
3.	CHEAL	LAMBSQUARTERS,COMMON	CHENOPODIUM ALBUM L.
4.	SETFA	GIANT FOXTAIL	SETARIA FABERI HERRM.
5.	POROL	PURSLANE,COMMON	PORTULACA OLERACEA L.
6.	SOLPT	NIGHTSHADE,EASTERN BLACK	SOLANUM PTYCANTHUM DUN.

**Crop 1:** LYPES PROCESSING TOMATO**Variety:** PETO 696**Planting Date:** May-31-01**Planting Method:** CONVENTIONAL**Rate:** 12 INCHES**Depth:** 2 "**Row Spacing:** 6 FEET**Seed Bed:** CONVENTIONAL

### SITE AND DESIGN

**Plot Width, Unit:** 6 FT**Plot Length, Unit:** 25 FT**Reps:** 4**Site Type:** LEVEL FIELD**Tillage Type:** CONVENTIONAL**Study Design:** RANDOMIZED COMPLETE BLOCK

### MAINTENANCE

**Field Prep./Maintenance:**

10-25-00:FALL CHISEL PLOWED

# The Ohio State University

5-01-01:COUNTRYSRINGS APPLIED 155#/A (45-0-0);INCORPORATED  
 5-03-01:COUNTRYSRINGS APPLIED 350#/A (0-0-60)& 150#/A (0-46-0)  
 5-08-01:WORKED FIELD WITH FIELD CULTIVATOR AND PACKER  
 5-09-01:DISKED BEDDED AND POWER BEDDED  
 5-21-01:SPRAYED BEDS WITH 1 PINT/A OF ROUNDUP ULTRA  
 5-31-01:PLANTED WITH 6 OZ.DIAZNON AG500 & 0.7 QT.OF(10-34-0)/50 GAL.WATER  
 6-15-01:SPRAYED TOMATOES WITH MANEX (1.5 QT.)  
 6-26-01:SPRAYED POAST @ 1.5 PTS./A  
 7-6&7-9-01:HOED AND WEEDED SELECTED TREATMENT PLOTS

## SOIL DESCRIPTION

**% OM:** 3                      **Texture:** FINE SANDY LOAM  
**pH:** 5.8                      **Soil Name:** COLWOOD  
**CEC:** 7.6                      **Fert. Level:** MODERATE

## APPLICATION DESCRIPTION

	A	B	C
<b>Application Date:</b>	May-31-01	Jun-14-01	Jun-21-01
<b>Time of Day:</b>	1-2PM	1-2PM	4-5 PM
<b>Application Method:</b>	SPRAY	SPRAY	SPRAY
<b>Application Timing:</b>	PPI	POST TP	POST <1"
<b>Applic. Placement:</b>	BDCST	DIR;BDCST	BDCST
<b>Air Temp., Unit:</b>	20.4 C	89 F	85 F
<b>% Relative Humidity:</b>	38	80	85
<b>Wind Velocity, Unit:</b>	3 MPH	1 MPH	1 MPH
<b>Dew Presence (Y/N):</b>	N	N	N
<b>Soil Moisture:</b>	M	M	D
<b>% Cloud Cover:</b>	20	15	80

## CROP STAGE AT EACH APPLICATION

	A	B	C
<b>Crop 1 Code, Stage:</b>	LYPES PPI	LYPES POST TP	LYPES POST
<b>Stage Scale:</b>	.	TRANSPLAN	PRE-BLOOM
<b>Height, Unit:</b>	0. .	10 IN.	18 IN.

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## WEED STAGE AT EACH APPLICATION

	A	B	C
<b>Weed 1 Code, Stage:</b>	ABUTH PPI	ABUTH POST TP	ABUTH POST
<b>Stage Scale:</b>	.	< 1" TALL	0-3" TALL
<b>Density, Unit:</b>	. .	MED .	MED .
<b>Weed 2 Code, Stage:</b>	AMAXX PPI	AMAXX POST TP	AMAXX POST
<b>Stage Scale:</b>	.	<1" TALL	0-3" TALL
<b>Density, Unit:</b>	. .	MED .	MED .
<b>Weed 3 Code, Stage:</b>	CHEAL PPI	CHEAL POST TP	CHEAL POST
<b>Stage Scale:</b>	.	<1" TALL	0-3" TALL
<b>Density, Unit:</b>	. .	MED .	MED .
<b>Weed 4 Code, Stage:</b>	SETFA PPI	SETFA POST TP	SETFA POST
<b>Stage Scale:</b>	.	<1" TALL	0-3" TALL
<b>Density, Unit:</b>	. .	MED .	MED .
<b>Weed 5 Code, Stage:</b>	POROL POST	POROL POST TP	POROL POST
<b>Stage Scale:</b>	.	<1" TALL	0-3" TALL
<b>Density, Unit:</b>	. .	MED .	MED .
<b>Weed 6 Code, Stage:</b>	SOLPT POST	SOLPT POST TP	SOLPT POST
<b>Stage Scale:</b>	.	<1" TALL	0-3" TALL
<b>Density, Unit:</b>	. .	MED .	MED .

## APPLICATION EQUIPMENT

	A	B	C
<b>Appl. Equipment:</b>	CO2 BACKP	CO2 BACKP	CO2 BACKP
<b>Operating Pressure:</b>	30 PSI	30 PSI	30 PSI
<b>Nozzle Type:</b>	FFAN	FFAN	FFAN
<b>Nozzle Size:</b>	8002VS	8002VS	8002VS
<b>Nozzle Spacing, Unit:</b>	18 "	18 "	18 "
<b>Nozzles/Row:</b>	4	4	
<b>Band Width, Unit:</b>	54 IN.	54 IN.	54 IN.
<b>Boom Height, Unit:</b>	18 IN.	18 IN.	18 IN.
<b>Incorp. Depth, Unit:</b>	1 INCH		
<b>Spray Volume, Unit:</b>	20 GPA	20 GPA	20 GPA

# The Ohio State University

## HERBICIDE PROGRAMS FOR PROCESSING TOMATOES

Trial ID: TOMATFREM 2001`

Study Dir.: DR.DOUGLAS J.DOOHAN AND T.KOCH

Location: FREMONT,OHIO

Investigator: DR. DOUGLAS J. DOOHAN

### Trial Comments

WE EXPERIENCED DROUGHT CONDITIONS THIS SUMMER WHICH MAY HAVE AFFECTED PLANT GROWTH.

# The Ohio State University

## HERBICIDE PROGRAMS FOR PROCESSING TOMATOES

Trial ID: TOMATFREM 2001`

Study Dir.: DR.DOUGLAS J.DOOHAN AND T.KOCH

Location: FREMONT,OHIO

Investigator: DR. DOUGLAS J. DOOHAN

Weed Code				LYPES	CHEAL	SETFA
Crop Code				LYPES	LYPES	LYPES
Rating Data Type				INJURY	CONTROL	CONTROL
Rating Unit				PERCENT	PERCENT	PERCENT
Rating Date				Jun-14-01	Jun-14-01	Jun-14-01
Trt-Eval Interval				14 DA-A	14 DA-A	14 DA-A
# Subsamples, Dec.				0	0	0
Trt Treatment	Product	Product	Grow			
No. Name	Rate	Rate Unit	Stg	1	2	3
1	HANDWEEDED CONTROL			0 a	0 c	0 c
2	WEEDY CONTROL			0 a	0 c	0 c
3	DUAL MAGNUM	1.33	PT/A PPI	0 a	88 a	94 a
4	DUAL MAGNUM	1.33	PT/A P.TP.BR.	0 a	0 c	0 c
5	DUAL MAGNUM	1.33	PT/A P.TP.DIR	0 a	0 c	0 c
6	DUAL MAGNUM+ SENCOR	1.33	PT/A P.TP.DIR	0 a	0 c	0 c
7	DUAL MAGNUM + MATRIX SENCOR	1.33	PT/A PPI	0 a	88 a	93 a
		1.0	OZ/A POST<1"			
		2.0	OZ/A POST<1"			
		0.25	% V/V POST<1"			
8	DUAL MAGNUM + MATRIX + SENCOR + NIS	1.33	PT/A PPI	0 a	66 b	70 b
		2.0	OZ/A POST<1"			
		2.0	OZ/A POST<1"			
		0.25	% V/V POST<1"			
9	DUAL MAGNUM + MATRIX + SENCOR + NIS	1.33	PT/A PPI	0 a	86 ab	94 a
		3.0	OZ/A POST<1"			
		2.0	OZ/A POST<1"			
		0.25	% V/V POST<1"			
10	MATRIX + SENCOR + NIS	2	OZ/A POST<1"	0 a	0 c	0 c
		2.0	OZ/A POST<1"			
		0.25	% V/V POST<1"			
LSD (P=.05)				0.0	20.4	21.5
Standard Deviation				0.0	14.1	14.8
CV				0.0	42.9	42.42

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.



# The Ohio State University

Weed Code					ABUTH		CHEAL
Crop Code					LYPES	LYPES	LYPES
Rating Data Type					CONTROL	INJURY	CONTROL
Rating Unit					PERCENT	PERCENT	PERCENT
Rating Date					Jun-14-01	Jul-05-01	Jul-05-01
Trt-Eval Interval					14 DA-A		
# Subsamples, Dec.					0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	4	5	6
1	HANDWEEDED CONTROL				0 c	0 a	99 a
2	WEEDY CONTROL				0 c	0 a	0 e
3	DUAL MAGNUM	1.33	PT/A	PPI	94 a	0 a	33 d
4	DUAL MAGNUM	1.33	PT/A	P.TP.BR.	0 c	6 a	15 e
5	DUAL MAGNUM	1.33	PT/A	P.TP.DIR	0 c	0 a	10 e
6	DUAL MAGNUM+ SENCOR	1.33 0.75	PT/A LB/A	P.TP.DIR	0 c	0 a	58 c
7	DUAL MAGNUM + MATRIX SENCOR NIS	1.33 1.0 2.0 0.25	PT/A OZ/A OZ/A % V/V	PPI POST<1" POST<1" POST<1"	94 a	0 a	94 a
8	DUAL MAGNUM + MATRIX + SENCOR + NIS	1.33 2.0 2.0 0.25	PT/A OZ/A OZ/A % V/V	PPI POST<1" POST<1" POST<1"	70 b	0 a	94 a
9	DUAL MAGNUM + MATRIX + SENCOR + NIS	1.33 3.0 2.0 0.25	PT/A OZ/A OZ/A % V/V	PPI POST<1" POST<1" POST<1"	94 a	1 a	85 ab
10	MATRIX + SENCOR + NIS	2 2.0 0.25	OZ/A OZ/A % V/V	POST<1" POST<1" POST<1"	0 c	3 a	76 b
LSD (P=.05)					21.3	4.3	15.7
Standard Deviation					14.7	3.0	10.8
CV					41.83	299.69	19.2

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					SETFA	POROL	SOLPT
Crop Code					LYPES	LYPES	LYPES
Rating Data Type					CONTROL	CONTROL	CONTROL
Rating Unit					PERCENT	PERCENT	PERCENT
Rating Date					Jul-05-01	Jul-05-01	Jul-05-01
Trt-Eval Interval							
# Subsamples, Dec.					0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9
1	HANDWEEDED CONTROL				99 a	99 a	99 a
2	WEEDY CONTROL				0 c	0 c	0 c
3	DUAL MAGNUM	1.33	PT/A	PPI	99 a	98 a	99 a
4	DUAL MAGNUM	1.33	PT/A	P.TP.BR.	23 b	88 a	99 a
5	DUAL MAGNUM	1.33	PT/A	P.TP.DIR	0 c	50 b	50 b
6	DUAL MAGNUM+ SENCOR	1.33 0.75	PT/A LB/A	P.TP.DIR P.TP.DIR	98 a	99 a	72 ab
7	DUAL MAGNUM + MATRIX SENCOR NIS	1.33 1.0 2.0 0.25	PT/A OZ/A OZ/A % V/V	PPI POST<1" POST<1" POST<1"	99 a	99 a	96 a
8	DUAL MAGNUM + MATRIX + SENCOR + NIS	1.33 2.0 2.0 0.25	PT/A OZ/A OZ/A % V/V	PPI POST<1" POST<1" POST<1"	99 a	99 a	91 a
9	DUAL MAGNUM + MATRIX + SENCOR + NIS	1.33 3.0 2.0 0.25	PT/A OZ/A OZ/A % V/V	PPI POST<1" POST<1" POST<1"	99 a	99 a	93 a
10	MATRIX + SENCOR + NIS	2 2.0 0.25	OZ/A OZ/A % V/V	POST<1" POST<1" POST<1"	99 a	97 a	60 b
LSD (P=.05)					20.8	26.6	28.1
Standard Deviation					14.3	18.3	19.4
CV					20.03	22.12	25.52

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					AMAXX		CHEAL
Crop Code					LYPES	LYPES	LYPES
Rating Data Type					CONTROL	INJURY	CONTROL
Rating Unit					PERCENT	PERCENT	PERCENT
Rating Date					Jul-05-01	Jul-11-01	Jul-11-01
Trt-Eval Interval							
# Subsamples, Dec.					0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	10	11	12
1	HANDWEEDED CONTROL				98 ab	0 d	0 f
2	WEEDY CONTROL				0 c	0 d	0 f
3	DUAL MAGNUM	1.33	PT/A	PPI	96 ab	0 d	53 c
4	DUAL MAGNUM	1.33	PT/A	P.TP.BR.	90 ab	13 a	16 d
5	DUAL MAGNUM	1.33	PT/A	P.TP.DIR	74 b	0 d	8 e
6	DUAL MAGNUM+ SENCOR	1.33	PT/A	P.TP.DIR	94 ab	0 d	64 b
7	DUAL MAGNUM + MATRIX	1.33	PT/A	PPI	99 a	4 c	84 a
	SENCOR	2.0	OZ/A	POST<1"			
	NIS	0.25	% V/V	POST<1"			
8	DUAL MAGNUM + MATRIX + SENCOR + NIS	1.33	PT/A	PPI	99 a	1 cd	84 a
		2.0	OZ/A	POST<1"			
		2.0	OZ/A	POST<1"			
		0.25	% V/V	POST<1"			
9	DUAL MAGNUM + MATRIX + SENCOR + NIS	1.33	PT/A	PPI	99 a	8 b	80 a
		3.0	OZ/A	POST<1"			
		2.0	OZ/A	POST<1"			
		0.25	% V/V	POST<1"			
10	MATRIX + SENCOR + NIS	2	OZ/A	POST<1"	99 a	0 d	66 b
		2.0	OZ/A	POST<1"			
		0.25	% V/V	POST<1"			
LSD (P=.05)					24.0	2.9	5.2
Standard Deviation					16.6	2.0	3.6
CV					19.54	79.93	7.84

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					SETFA	POROL	AMAXX
Crop Code					LYPES	LYPES	LYPES
Rating Data Type					CONTROL	CONTROL	CONTROL
Rating Unit					PERCENT	PERCENT	PERCENT
Rating Date					Jul-11-01	Jul-11-01	Jul-11-01
Trt-Eval Interval							
# Subsamples, Dec.					0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15
1	HANDWEEDED CONTROL				0 b	0 e	25 b
2	WEEDY CONTROL				0 b	0 e	0 c
3	DUAL MAGNUM	1.33	PT/A	PPI	96 a	90 c	99 a
4	DUAL MAGNUM	1.33	PT/A	P.TP.BR.	96 a	83 d	88 a
5	DUAL MAGNUM	1.33	PT/A	P.TP.DIR	93 a	93 bc	89 a
6	DUAL MAGNUM+ SENCOR	1.33 0.75	PT/A LB/A	P.TP.DIR	99 a	97 ab	96 a
7	DUAL MAGNUM + MATRIX SENCOR NIS	1.33 1.0 2.0 0.25	PT/A OZ/A OZ/A % V/V	PPI POST<1" POST<1" POST<1"	99 a	97 ab	98 a
8	DUAL MAGNUM + MATRIX + SENCOR + NIS	1.33 2.0 2.0 0.25	PT/A OZ/A OZ/A % V/V	PPI POST<1" POST<1" POST<1"	99 a	99 a	98 a
9	DUAL MAGNUM + MATRIX + SENCOR + NIS	1.33 3.0 2.0 0.25	PT/A OZ/A OZ/A % V/V	PPI POST<1" POST<1" POST<1"	99 a	99 a	99 a
10	MATRIX + SENCOR + NIS	2 2.0 0.25	OZ/A OZ/A % V/V	POST<1" POST<1" POST<1"	96 a	99 a	99 a
LSD (P=.05)					5.8	5.3	22.7
Standard Deviation					4.0	3.7	15.6
CV					5.16	4.85	19.8

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					SOLPT	CHEAL	SOLPT
Crop Code					LYPES	LYPES	LYPES
Rating Data Type					CONTROL	CONTROL	CONTROL
Rating Unit					PERCENT	PERCENT	PERCENT
Rating Date					Jul-11-01	Aug-01-01	Aug-01-01
Trt-Eval Interval							
# Subsamples, Dec.					0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	16	17	18
1	HANDWEEDED CONTROL				0 e	69 a	74 bc
2	WEEDY CONTROL				0 e	0 b	0 d
3	DUAL MAGNUM	1.33	PT/A	PPI	99 a	13 b	99 a
4	DUAL MAGNUM	1.33	PT/A	P.TP.BR.	99 a	13 b	99 a
5	DUAL MAGNUM	1.33	PT/A	P.TP.DIR	99 a	13 b	99 a
6	DUAL MAGNUM+ SENCOR	1.33	PT/A	P.TP.DIR	80 c	13 b	99 a
7	DUAL MAGNUM + MATRIX SENCOR NIS	1.33	PT/A	PPI	97 a	76 a	76 ab
		1.0	OZ/A	POST<1"			
		2.0	OZ/A	POST<1"			
		0.25	% V/V	POST<1"			
8	DUAL MAGNUM + MATRIX + SENCOR + NIS	1.33	PT/A	PPI	84 b	71 a	76 ab
		2.0	OZ/A	POST<1"			
		2.0	OZ/A	POST<1"			
		0.25	% V/V	POST<1"			
9	DUAL MAGNUM + MATRIX + SENCOR + NIS	1.33	PT/A	PPI	83 bc	73 a	55 bc
		3.0	OZ/A	POST<1"			
		2.0	OZ/A	POST<1"			
		0.25	% V/V	POST<1"			
10	MATRIX + SENCOR + NIS	2	OZ/A	POST<1"	46 d	55 a	53 c
		2.0	OZ/A	POST<1"			
		0.25	% V/V	POST<1"			
LSD (P=.05)					3.5	22.3	23.2
Standard Deviation					2.4	15.3	16.0
CV					3.55	38.95	21.9

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					LYPES INJURY PERCENT Aug-01-01  0
Crop Code					
Rating Data Type					
Rating Unit					
Rating Date					
Trt-Eval Interval					
# Subsamples, Dec.					
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19
1	HANDWEEDED CONTROL				0 c
2	WEEDY CONTROL				0 c
3	DUAL MAGNUM	1.33	PT/A	PPI	0 c
4	DUAL MAGNUM	1.33	PT/A	P.TP.BR.	10 a
5	DUAL MAGNUM	1.33	PT/A	P.TP.DIR	0 c
6	DUAL MAGNUM+ SENCOR	1.33 0.75	PT/A LB/A	P.TP.DIR P.TP.DIR	0 c
7	DUAL MAGNUM + MATRIX SENCOR NIS	1.33 1.0 2.0 0.25	PT/A OZ/A OZ/A % V/V	PPI POST<1" POST<1" POST<1"	5 b
8	DUAL MAGNUM + MATRIX + SENCOR + NIS	1.33 2.0 2.0 0.25	PT/A OZ/A OZ/A % V/V	PPI POST<1" POST<1" POST<1"	0 c
9	DUAL MAGNUM + MATRIX + SENCOR + NIS	1.33 3.0 2.0 0.25	PT/A OZ/A OZ/A % V/V	PPI POST<1" POST<1" POST<1"	5 b
10	MATRIX + SENCOR + NIS	2 2.0 0.25	OZ/A OZ/A % V/V	POST<1" POST<1" POST<1"	0 c
LSD (P=.05)					0.0
Standard Deviation					0.0
CV					0.0

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

## FALL WEED CONTROL IN APPLES WITH PREEMERGENCE HERBICIDES

Trial ID: APPLEWOOS 2000

Study Dir.: DR.DOUGLAS J.DOOHAN

Location: WOOSTER, OHIO

Investigator: DR. DOUGLAS J. DOOHAN

### GENERAL TRIAL INFORMATION

**Study Director:** DR.DOUGLAS J.DOOHAN AND T.KOCH **Title:** ASST.PROFESSOR  
**Affiliation:** OARDC/THE OHIO STATE UNIVERSITY  
**Postal Code:** 44691  
**Investigator:** DR.DOUGLAS J.DOOHAN **Title:** ASST.PROFESSOR  
**Affiliation:** OARDC  
**Postal Code:** 44691

### TRIAL LOCATION

**City:** WOOSTER **Trial Status:** COMPLETE  
**State/Prov.:** OHIO **Trial Reliability:** RELIABLE  
**Postal Code:** 44691 **Initiation Date:** Oct-15-99  
**Country:** USA  
**Directions:** FROM WOOSTER TAKE SR 250 EAST APPROX.3 MI. TO OIL CITY RD. THEN 4 MI. SOUTH TO 5082 OIL CITY RD.

### COOPERATOR/LANDOWNER

**Cooperator:** DR.DAVID FEREE **Country:** USA  
**Org:** OARDC **Phone No:** 330-263-3878  
**Address 1:** 5082 OIL CITY RD. **Fax No:** 330-263-3887  
**City:** WOOSTER  
**State/Prov:** OHIO  
**Postal Code:** 44691

**Conducted Under GLP (Y/N):** N**Conducted Under GEP (Y/N):** N**Objective:** PRE-EMERGENCE FALL WEED CONTROL IN NEWLY PLANTED APPLE TREES.

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISIIFOLIA L.
2.	OXAST	WOODSORREL, COMMON YELLOW	OXALIS STRICTA L.
3.	PANDI	PANICUM, FALL	PANICUM DICHOTOMIFLORUM (MICHX.)
4.	POLPY	SMARTWEED, PENNSYLVANIA	POLGONUM PENNSYLVANICUM L.
5.	DIGSA	CRABGRASS, LARGE	DIGITARIA SANGUINALIS (L.) SCOP.
6.	SENVU	GROUNDSEL, COMMON	SENECIO VULGARIS L.
7.	TAROF	DANDELION, COMMON	TARAXACUM OFFICINALE WEBER IN WIGGERS
8.	PLAMA	PLANTAIN, BROADLEAF	PLANTAGO MAJOR L.

**Crop 1:** MABSD APPLE**Variety:** SCARLET O'HARA**Planting Date:** May-01-99**Planting Method:** CONVENTIONAL**Rate:** 389 PER ACRE**Depth:** 12 IN**Perennial Age:** 1 YEAR**Row Spacing:** 12 FEET**Seed Bed:** CONVENTIONAL**Soil Temperature:** 45 F**Soil Moisture:** MOIST

### SITE AND DESIGN

**Plot Width, Unit:** 6 FT**Plot Length, Unit:** 20 FT**Reps:** 6**Site Type:** WELL-DRAINED**Tillage Type:** CONVENTIONAL**Study Design:** RANDOMIZED COMPLETE BLOCK

# The Ohio State University

## MAINTENANCE

**Field Prep./Maintenance:** LISTED BELOW BY DATES ARE THE CHEMICALS USED IN COVER SPRAYS FOR ORCHARD MAINTENANCE BY THE FARM MANAGER. (NO RATES GIVEN)

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.	Mar-23-00	DORMANT OIL					
2.	Mar-30-00	DITHANE, MANCOZEB, NOVA					
3.	Apr-14-00	DITHANE, MANCOZEB, SEVIN					
4.	Apr-19-00	DITHANE, SEVIN					
5.	Apr-29-00	DITHANE, MANCOZEB, NOVA					
6.	May-11-00	NOVA, IMIDAN					
7.	May-16-00	NOVA, IMIDAN, DITHANE					
8.	May-22-00	NOVA, PROVADOL, ZIRAM					
9.	Jun-01-00	NOVA, ZIRAM, PROVADO					
10.	Jun-17-00	NOVA, ZIRAM, IMIDAN, THIODAN					
11.	Jul-01-00	ZIRAM, PROVADO, PYRAMITE					
12.	Jul-11-00	ZIRAM, SEVIN, PYRAMITE					
13.	Jul-17-00	ZIRAM, NOVA, THIODAN, SEVIN					
14.	Aug-04-00	TOPSIN, SEVIN					
15.	Aug-11-00	TOPSIN, IMIDAN					

## SOIL DESCRIPTION

% Sand: 11	% OM: 3	Texture: SILT LOAM
% Silt: 75	pH: 6.0	Soil Name: WOOSTER
% Clay: 14	CEC: 13	Fert. Level: MODERATE

## APPLICATION DESCRIPTION

	A
Application Date:	Oct-15-99
Time of Day:	2-3PM
Application Method:	BDCST
Application Timing:	FALLPREEM
Applic. Placement:	BROSOI
Air Temp., Unit:	63 F
% Relative Humidity:	69
Wind Velocity, Unit:	5 MPH
Dew Presence (Y/N):	N
Water Hardness:	SOFT
Soil Temp., Unit:	54 F
Soil Moisture:	MOIST
% Cloud Cover:	30

## CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	MABSD LEAF-FALL
Stage Scale:	MATURE
Height, Unit:	6 FEET



# The Ohio State University

## WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	AMBEL PREEM
Stage Scale:	.
Density, Unit:	. .
Weed 2 Code, Stage:	OXAST PREEM
Stage Scale:	.
Density, Unit:	. .
Weed 3 Code, Stage:	PANDI PREEM
Stage Scale:	.
Density, Unit:	. .
Weed 4 Code, Stage:	POLPY PREEM
Stage Scale:	.
Density, Unit:	. .
Weed 5 Code, Stage:	DIGSA PREEM
Stage Scale:	.
Density, Unit:	. .
Weed 6 Code, Stage:	SENVU PREEM
Stage Scale:	.
Density, Unit:	. .
Weed 7 Code, Stage:	TAROF
Density, Unit:	. .
Weed 8 Code, Stage:	PLAMA .
Stage Scale:	.
Density, Unit:	. .

## APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	35 PSI
Nozzle Type:	FLAT FAN
Nozzle Size:	8002VS
Nozzle Spacing, Unit:	18 IN
Nozzles/Row:	4
Band Width, Unit:	60 IN.
Boom Length, Unit:	54 IN.
Boom Height, Unit:	18 IN
Ground Speed, Unit:	3 MPH
Incorporation Equip.:	0
Hours to Incorp.:	0
Incorp. Depth, Unit:	0
Carrier:	H2O
Spray Volume, Unit:	20 GPA
Propellant:	CO2
Tank Mix (Y/N):	N

# The Ohio State University

## FALL WEED CONTROL IN APPLES WITH PREEMERGENCE HERBICIDES

Trial ID: APPLEWOOS 2000

Study Dir.: DR.DOUGLAS J.DOOHAN

Location: WOOSTER, OHIO

Investigator: DR. DOUGLAS J. DOOHAN

### Trial Comments

OCTOBER 14, 1999. SPRAYED GLYPHOSATE ON ALL PLOTS (EACH TREE IS A PLOT) BEFORE SPRAYING RESIDUAL TREATMENTS.

SPRAYED THE FOLLOWING ON FRIDAY, OCTOBER 15, 1999.

REP 1-4 SPRAY GROUND

REP 5 SPRAY GROUND + BARK

REP 6 SPRAY GROUND + BARK + FOLIAGE

TREATMENTS #2, #4, #7, EXHIBITED POSSIBLE HERBICIDE CARRYOVER FROM PREVIOUS ROTATIONAL ORCHARD. WEEDS SUCH AS SMARTWEED, PIGWEED, AND ANNUAL GRASSES, HAD WHITE LEAVES WITH GREEN VEINS THAT PERSISTED, GRADUALLY FADING IN THE FALL.

THE TREES IN REPS 5 & 6, (IN WHICH EACH TREATMENT WAS APPLIED TO THE BARK AND FOILAGE), SHOWED NO INJURY THE FOLLOWING YEAR.

WEED CONTROL RATINGS BASED ON 0-100% ; ZERO CONTROL BEING POOR, AND 100% BEING EXCELLENT CONTROL.

# The Ohio State University

## FALL WEED CONTROL IN APPLES WITH PREEMERGENCE HERBICIDES

Trial ID: APPLEWOOS 2000

Study Dir.: DR.DOUGLAS J.DOOHAN

Location: WOOSTER, OHIO

Investigator: DR. DOUGLAS J. DOOHAN

Weed Code				PANDI	TAROF	AMBEL	POLPY	
Crop Code				MABSD	MABSD	MABSD	MABSD	
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	
Rating Date				May-30-00	May-30-00	May-30-00	May-30-00	
# Subsamples, Dec.				0	0	0	0	
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4
1	UNTREATED CONTROL				0 b	0 b	0 c	0 c
2	VALOR	0.75	LB/A	PRE	95 a	98 a	91 b	94 ab
3	MILESTONE	0.625	LB/A	PRE	98 a	95 a	98 ab	98 a
4	SOLICAM	4.88	LB/A	PRE	95 a	95 a	99 a	91 b
5	PRINCEP	7.3	PT/A	PRE	97 a	95 a	98 a	96 a
6	SINBAR	2	LB/A	PRE	96 a	97 a	99 a	98 a
7	KARMEX	4	LB/A	PRE	98 a	99 a	98 a	95 ab
LSD (P=.05)					4.7	4.6	6.9	4.9
Standard Deviation					4.0	3.9	5.9	4.2
CV					4.82	4.76	7.04	5.13

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

## The Ohio State University

Weed Code				OXAST	SENVU	PANDI	TAROF	
Crop Code				MABSD	MABSD	MABSD	MABSD	
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	
Rating Date				May-30-00	May-30-00	Jul-10-00	Jul-10-00	
# Subsamples, Dec.				0	0	0	0	
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	5	6	7	8
1	UNTREATED CONTROL				0 c	0 c	0 c	0 e
2	VALOR	0.75	LB/A	PRE	98 ab	99 a	30 b	72 c
3	MILESTONE	0.625	LB/A	PRE	97 ab	99 a	75 a	87 ab
4	SOLICAM	4.88	LB/A	PRE	97 ab	99 a	86 a	81 b
5	PRINCEP	7.3	PT/A	PRE	95 b	88 b	33 b	55 d
6	SINBAR	2	LB/A	PRE	97 ab	99 a	84 a	92 a
7	KARMEX	4	LB/A	PRE	98 a	97 a	87 a	91 a
LSD (P=.05)					3.0	4.9	13.6	7.2
Standard Deviation					2.5	4.2	11.6	6.1
CV					3.03	5.04	20.49	8.99

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

## The Ohio State University

Weed Code				AMBEL	POLPY	OXAST	SENVU	
Crop Code				MABSD	MABSD	MABSD	MABSD	
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	
Rating Date				Jul-10-00	Jul-10-00	Jul-10-00	Jul-10-00	
# Subsamples, Dec.				0	0	0	0	
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	9	10	11	12
1	UNTREATED CONTROL				0 b	0 c	0 c	0 c
2	VALOR	0.75	LB/A	PRE	96 a	87 a	96 a	88 a
3	MILESTONE	0.625	LB/A	PRE	94 a	88 a	99 a	89 a
4	SOLICAM	4.88	LB/A	PRE	94 a	53 b	80 b	84 a
5	PRINCEP	7.3	PT/A	PRE	99 a	94 a	99 a	63 b
6	SINBAR	2	LB/A	PRE	99 a	95 a	99 a	91 a
7	KARMEX	4	LB/A	PRE	99 a	87 a	99 a	88 a
LSD (P=.05)					8.5	17.4	10.2	8.1
Standard Deviation					7.2	14.7	8.6	6.9
CV					8.66	20.48	10.55	9.54

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

## The Ohio State University

Weed Code				PANDI	TAROF	AMBEL	POLPY	
Crop Code				MABSD	MABSD	MABSD	MABSD	
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	
Rating Date				Aug-08-00	Aug-08-00	Aug-08-00	Aug-08-00	
# Subsamples, Dec.				0	0	0	0	
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16
1	UNTREATED CONTROL				10 b	33 b	17 b	17 c
2	VALOR	0.75	LB/A	PRE	22 b	90 a	96 a	96 a
3	MILESTONE	0.625	LB/A	PRE	70 a	82 a	91 a	93 a
4	SOLICAM	4.88	LB/A	PRE	82 a	97 a	94 a	48 b
5	PRINCEP	7.3	PT/A	PRE	35 b	89 a	99 a	99 a
6	SINBAR	2	LB/A	PRE	88 a	94 a	99 a	98 a
7	KARMEX	4	LB/A	PRE	89 a	97 a	99 a	90 a
LSD (P=.05)					26.1	28.0	22.2	21.2
Standard Deviation					22.1	23.7	18.8	17.9
CV					39.24	28.56	22.18	23.3

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

## The Ohio State University

Weed Code				OXAST	SENVU	PLAMA	DIGSA	
Crop Code				MABSD	MABSD	MABSD	MABSD	
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	
Rating Date				Aug-08-00	Aug-08-00	Aug-08-00	Aug-08-00	
# Subsamples, Dec.				0	0	0	0	
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	17	18	19	20
1	UNTREATED CONTROL				8 b	33 b	33 b	51 b
2	VALOR	0.75	LB/A	PRE	99 a	92 a	96 a	96 a
3	MILESTONE	0.625	LB/A	PRE	99 a	88 a	99 a	94 a
4	SOLICAM	4.88	LB/A	PRE	84 a	81 a	99 a	99 a
5	PRINCEP	7.3	PT/A	PRE	99 a	84 a	99 a	98 a
6	SINBAR	2	LB/A	PRE	99 a	92 a	99 a	97 a
7	KARMEX	4	LB/A	PRE	99 a	90 a	97 a	99 a
LSD (P=.05)					19.8	24.6	23.8	24.6
Standard Deviation					16.8	20.9	20.2	20.8
CV					20.06	26.19	22.74	23.03

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

## The Ohio State University

Weed Code				PANDI	TAROF	AMBEL	POLPY	
Crop Code				MABSD	MABSD	MABSD	MABSD	
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	
Rating Date				Sep-27-00	Sep-27-00	Sep-27-00	Sep-27-00	
# Subsamples, Dec.				0	0	0	0	
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	21	22	23	24
1	UNTREATED CONTROL				0 d	0 c	0 c	0 c
2	VALOR	0.75	LB/A	PRE	37 bc	73 a	72 b	62 a
3	MILESTONE	0.625	LB/A	PRE	45 b	53 b	94 a	70 a
4	SOLICAM	4.88	LB/A	PRE	68 a	48 b	94 a	35 b
5	PRINCEP	7.3	PT/A	PRE	25 c	72 a	93 ab	76 a
6	SINBAR	2	LB/A	PRE	69 a	83 a	95 a	81 a
7	KARMEX	4	LB/A	PRE	74 a	84 a	88 ab	67 a
LSD (P=.05)					17.5	19.1	21.9	23.2
Standard Deviation					14.8	16.2	18.6	19.7
CV					32.57	27.46	24.26	35.32

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.



# The Ohio State University

Weed Code				OXAST	SENVU
Crop Code				MABSD	MABSD
Rating Data Type				CONTROL	CONTROL
Rating Unit				PERCENT	PERCENT
Rating Date				Sep-27-00	Sep-27-00
# Subsamples, Dec.				0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	
				25	26
1	UNTREATED CONTROL			0 c	0 b
2	VALOR	0.75	LB/A	76 a	99 a
3	MILESTONE	0.625	LB/A	72 ab	99 a
4	SOLICAM	4.88	LB/A	54 b	99 a
5	PRINCEP	7.3	PT/A	76 a	99 a
6	SINBAR	2	LB/A	87 a	99 a
7	KARMEX	4	LB/A	88 a	99 a
LSD (P=.05)				19.9	0.0
Standard Deviation				16.8	0.0
CV				26.06	0.0

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

## MILESTONE ON GRAPES 2000/2001

Trial ID: GRAPEKINGS2000/01      Study Dir.: DR.DOUGLAS J.DOOHAN AND T.KOCH  
 Location: N.KINGSVILLE,OHIO      Investigator: DR. DOUGLAS J. DOOHAN

### GENERAL TRIAL INFORMATION

**Study Director:** DR.DOUGLAS J.DOOHAN AND T.KOCH      **Title:** ASST.PROFESSOR  
**Affiliation:** OARDC/THE OHIO STATE UNIVERSITY  
**Postal Code:** 44691  
**Investigator:** DR. DOUGLAS J. DOOHAN      **Title:** ASST.PROFESSOR  
**Affiliation:** OARDC /THE OHIO STATE UNIVERSITY  
**Postal Code:** 44691

### TRIAL LOCATION

**City:** N.KINGSVILLE      **Trial Status:** COMPLETE  
**State/Prov.:** OHIO      **Trial Reliability:** RELIABLE  
**Postal Code:** 44068      **Initiation Date:** May-03-00  
**Country:** USA      **Planned Completion Date:** Nov-15-01  
**Directions:** I-90 EAST TO N KINGSVILLE;THEN TAKE SR 84 WEST FROM N.KINGSVILLE  
 APPROX.3 MILES TO GRAPE BRANCH.

### COOPERATOR/LANDOWNER

**Cooperator:** GREGORY JOHNS      **Country:** USA  
**Org:** OARDC-GRAPE RESEARCH BRANCH      **Phone No:** (440)224-0273  
**Address 1:** S.R.84  
**City:** N.KINGSVILLE  
**State/Prov:** OHIO  
**Postal Code:** 44068

**Conducted Under GLP (Y/N):** N      **Conducted Under GEP (Y/N):** N

**Objective:** TO EVALUATE APPLICATIONS OF "MILESTONE"HERBICIDE IN SEVERAL  
 FRUIT,NUT AND /OR VINE CROPS FOR CROP TOLERANCE(PRIMARILY) AND WEED EFFICACY.

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
2.	MORAL	MULBERRY	MORUS ALBA
3.	PHTAM	POKEWEED	PHYTOLACCA AMERICANA L.
4.	DIGSA	CRABGRASS, LARGE	DIGITARIA SANGUINALIS (L.) SCOP.
5.	RHUGL	SUMAC,SMOOTH	RHUS GLABRA
6.	SENVU	GROUNDSEL, COMMON	SENECIO VULGARIS L.
7.	SOLCA	HORSENETTLE	SOLANUM CAROLINENSE L.
8.	STEME	CHICKWEED, COMMON	STELLARIA MEDIA (L.) VILL.
9.	ELYRE	QUACKGRASS	AGROPYRUM REPENS L.

**Crop 1:** VITIS GRAPES      **Variety:** CONCORD  
**Planting Date:** May-05-80      **Planting Method:** CONVENTIONAL  
**Rate:** 544 ACRE      **Depth:** 8 IN      **Perennial Age:** 20 YEARS  
**Row Spacing:** 10 FEET      **Seed Bed:** CONVENTIONAL  
**Soil Temperature:** 45 F      **Soil Moisture:** MOIST

# The Ohio State University

## SITE AND DESIGN

Plot Width, Unit: 8 FT Plot Length, Unit: 25 FT Reps: 3  
 Site Type: WELL-DRAINED, LEVEL  
 Tillage Type: CONVENTIONAL Study Design: RANDOMIZED COMPLETE BLOCK

## MAINTENANCE

**Field Prep./Maintenance:** FIELD NOTES FROM BRANCH MGR.: SPRAYS APPLIED:

5/11/00: PENNCOZEB, RUBIGAN, SOYRAN, CAPTAN

6/8/00: ABOUND, SEVIN XLR

6/23/00: MANCOZEB, RUBIGAN, VANGUARD

7/7/00: MANCOZEB, RUBIGAN

7/21/00: IMIDAN, ABOUND

8/4/00: ABOUND

5/11/00:

## SOIL DESCRIPTION

% OM: 1.0 Texture: LOAMY FINE SAND  
 pH: 5.9 Soil Name: COLONIE  
 CEC: 3.0 Fert. Level: LOW-MODERATE

## APPLICATION DESCRIPTION

	A
Application Date:	May-03-00
Time of Day:	12-1PM
Application Method:	SPRAY
Application Timing:	PREEM
Applic. Placement:	BROADCAST
Air Temp., Unit:	55 F
% Relative Humidity:	69
Wind Velocity, Unit:	7 MPH
Dew Presence (Y/N):	N
Water Hardness:	SOFT
Soil Temp., Unit:	40 F
Soil Moisture:	MOIST
% Cloud Cover:	30

## CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	VITIS GRAPE
Stage Scale:	"02"STG.
Height, Unit:	6 FEET

# The Ohio State University

## WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	CHEAL PREEM
Stage Scale:	.
Density, Unit:	. .
Weed 2 Code, Stage:	MORAL PREEM
Stage Scale:	.
Density, Unit:	. .
Weed 3 Code, Stage:	PHTAM PREEM
Stage Scale:	.
Density, Unit:	. .
Weed 4 Code, Stage:	DIGSA PREEM
Stage Scale:	.
Density, Unit:	. .
Weed 5 Code, Stage:	RHUGL PREEM
Stage Scale:	.
Density, Unit:	. .
Weed 6 Code, Stage:	SENVU PREEM
Stage Scale:	.
Density, Unit:	. .
Weed 7 Code, Stage:	SOLCA PREEM
Stage Scale:	.
Density, Unit:	. .
Weed 8 Code, Stage:	STEME PREEM
Stage Scale:	.
Density, Unit:	. .
Weed 9 Code, Stage:	ELYRE PREEM
Stage Scale:	.
Density, Unit:	. .

# The Ohio State University

## APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	35 PSI
Nozzle Type:	FFAN
Nozzle Size:	8002VS
Nozzle Spacing, Unit:	18
Nozzles/Row:	4
Band Width, Unit:	60 IN
Boom Length, Unit:	54 IN
Boom Height, Unit:	18 IN
Ground Speed, Unit:	3 MPH
Incorporation Equip.:	NONE
Hours to Incorp.:	0
Incorp. Depth, Unit:	0 0
Carrier:	WATER
Spray Volume, Unit:	20 GPA
Propellant:	CO2

# The Ohio State University

## MILESTONE ON GRAPES 2000/2001

Trial ID: GRAPEKINGS2000/01      Study Dir.: DR.DOUGLAS J.DOOHAN AND T.KOCH  
Location: N.KINGSVILLE,OHIO      Investigator: DR. DOUGLAS J. DOOHAN

### Trial Comments

PLIOTS WERE FAIRLY RECENTLY SPRAYED WITH ROUNDUP (2-3 WKS AGO) .GRAPES WERE AT THE " 02" STAGE OF DEVELOPEMENT. THERE DOES NOT APPEAR TO BE ANY DAMAGE TO THE GRAPES AT ANY LEVEL TO DATE. NO LEAF INJURY OR STUNTING OF ANY KIND. THESE ARE MATURE CONCORD GRAPES.

# The Ohio State University

## MILESTONE ON GRAPES 2000/2001

Trial ID: GRAPEKINGS2000/01      Study Dir.: DR.DOUGLAS J.DOOHAN AND T.KOCH  
 Location: N.KINGSVILLE,OHIO      Investigator: DR. DOUGLAS J. DOOHAN

					SENVU	PHTAM	STEME	SOLCA	CHEAL
					VITLA	VITLA	VITLA	VITLA	VITLA
					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
					PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
					Jun-16-00	Jun-16-00	Jun-16-00	Jun-16-00	Jun-16-00
# Subsamples, Dec.					0	0	0	0	0
Trt	Treatment	Product	Product	Grow					
No.	Name	Rate	Rate Unit	Stg	1	2	3	4	5
1	MILESTONE	7.5	OZ/A	PRE	99 a	99 a	99 a	96 a	99 a
2	MILESTONE	15	OZ/A	PRE	99 a	99 a	99 a	99 a	99 a
3	MILESTONE	30	OZ/A	PRE	99 a	99 a	99 a	99 a	99 a
4	GOAL 2XL + KARMEX	38.4	OZ/A	PRE	96 b	99 a	99 a	99 a	98 a
5	CONTROL	48	OZ/A	PRE	0 c	0 b	0 b	0 b	0 b
LSD (P=.05)					1.9	0.0	0.0	4.4	1.9
Standard Deviation					1.0	0.0	0.0	2.3	1.0
CV					1.31	0.0	0.0	2.96	1.31

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

## The Ohio State University

Weed Code					DIGSA	MORAL	RHUGL		SENVU
Crop Code					VITLA	VITLA	VITLA	VITLA	VITLA
Rating Data Type					CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit					PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					Jun-16-00	Jun-16-00	Jun-16-00	Jun-16-00	Jul-19-00
# Subsamples, Dec.					0	0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
1	MILESTONE	7.5	OZ/A	PRE	99 a	99 a	99 a	0 a	94 a
2	MILESTONE	15	OZ/A	PRE	99 a	96 a	99 a	0 a	99 a
3	MILESTONE	30	OZ/A	PRE	99 a	99 a	99 a	0 a	99 a
4	GOAL 2XL + KARMEX	38.4	OZ/A	PRE	99 a	99 a	99 a	0 a	80 b
5	CONTROL	48	OZ/A	PRE	0 b	0 b	0 b	0 a	0 c
LSD (P=.05)					0.0	4.4	0.0	0.0	7.2
Standard Deviation					0.0	2.3	0.0	0.0	3.8
CV					0.0	2.96	0.0	0.0	5.13

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.



## The Ohio State University

Weed Code					PHTAM	STEME	SOLCA	CHEAL	DIGSA
Crop Code					VITLA	VITLA	VITLA	VITLA	VITLA
Rating Data Type					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit					PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					Jul-19-00	Jul-19-00	Jul-19-00	Jul-19-00	Jul-19-00
# Subsamples, Dec.					0	0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
1	MILESTONE	7.5	OZ/A	PRE	99 a	88 a	48 b	99 a	87 b
2	MILESTONE	15	OZ/A	PRE	99 a	94 a	99 a	99 a	99 a
3	MILESTONE	30	OZ/A	PRE	99 a	96 a	99 a	99 a	99 a
4	GOAL 2XL + KARMEX	38.4	OZ/A	PRE	99 a	96 a	69 ab	86 a	94 ab
5	CONTROL	48	OZ/A	PRE	0 b	0 b	0 c	0 b	0 c
LSD (P=.05)					0.0	9.7	46.8	19.0	9.1
Standard Deviation					0.0	5.1	24.8	10.1	4.9
CV					0.0	6.85	39.34	13.15	6.4

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

## The Ohio State University

Weed Code					MORAL	RHUGL		SENVU	PHTAM
Crop Code					VITLA	VITLA	VITLA	VITLA	VITLA
Rating Data Type					CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit					PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					Jul-19-00	Jul-19-00	Jul-19-00	Oct-25-00	Oct-25-00
# Subsamples, Dec.					0	0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	16	17	18	19	20
1	MILESTONE	7.5	OZ/A	PRE	99 a	99 a	0 a	98 a	100 a
2	MILESTONE	15	OZ/A	PRE	96 a	99 a	0 a	95 a	100 a
3	MILESTONE	30	OZ/A	PRE	99 a	99 a	0 a	100 a	100 a
4	GOAL 2XL + KARMEX	38.4	OZ/A	PRE	99 a	99 a	0 a	90 a	100 a
5	CONTROL	48	OZ/A	PRE	0 b	0 b	0 a	0 b	0 b
LSD (P=.05)					4.4	0.0	0.0	15.8	0.0
Standard Deviation					2.3	0.0	0.0	8.4	0.0
CV					2.96	0.0	0.0	10.95	0.0

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

## The Ohio State University

Weed Code					STEME	SOLCA	CHEAL	DIGSA	MORAL
Crop Code					VITLA	VITLA	VITLA	VITLA	VITLA
Rating Data Type					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit					PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					Oct-25-00	Oct-25-00	Oct-25-00	Oct-25-00	Oct-25-00
# Subsamples, Dec.					0	0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	21	22	23	24	25
1	MILESTONE	7.5	OZ/A	PRE	78 a	92 a	100 a	100 a	100 a
2	MILESTONE	15	OZ/A	PRE	88 a	100 a	100 a	100 a	93 a
3	MILESTONE	30	OZ/A	PRE	95 a	97 a	100 a	100 a	97 a
4	GOAL 2XL + KARMEX	38.4	OZ/A	PRE	90 a	95 a	83 a	85 a	93 a
5	CONTROL				0 b	0 b	0 b	0 b	0 b
LSD (P=.05)					20.5	8.4	17.5	15.2	10.0
Standard Deviation					10.9	4.5	9.3	8.1	5.3
CV					15.49	5.83	12.14	10.47	6.94

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

## The Ohio State University

Weed Code					RHUGL		SENVU	PHTAM	STEME
Crop Code					VITLA	VITLA	VITLA	VITLA	VITLA
Rating Data Type					CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit					PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					Oct-25-00	Oct-25-00	Jun-06-01	Jun-06-01	Jun-06-01
# Subsamples, Dec.					0	0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	26	27	28	29	30
1	MILESTONE	7.5	OZ/A	PRE	100 a	0 a	95 a	100 a	83 ab
2	MILESTONE	15	OZ/A	PRE	100 a	0 a	97 a	100 a	77 b
3	MILESTONE	30	OZ/A	PRE	100 a	0 a	98 a	100 a	83 ab
4	GOAL 2XL + KARMEX	38.4	OZ/A	PRE	100 a	0 a	93 a	100 a	88 a
5	CONTROL				0 b	0 a	0 b	0 b	0 c
LSD (P=.05)					0.0	0.0	6.2	0.0	10.8
Standard Deviation					0.0	0.0	3.3	0.0	5.7
CV					0.0	0.0	4.29	0.0	8.65

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

## The Ohio State University

Weed Code					SOLCA	CHEAL	DIGSA	MORAL	RHUGH
Crop Code					VITLA	VITLA	VITLA	VITLA	VITLA
Rating Data Type					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit					PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					Jun-06-01	Jun-06-01	Jun-06-01	Jun-06-01	Jun-06-01
# Subsamples, Dec.					0	0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	31	32	33	34	35
1	MILESTONE	7.5	OZ/A	PRE	90 b	92 ab	100 a	98 a	98 a
2	MILESTONE	15	OZ/A	PRE	98 ab	92 ab	100 a	97 a	100 a
3	MILESTONE	30	OZ/A	PRE	98 ab	100 a	100 a	97 a	100 a
4	GOAL 2XL + KARMEX	38.4	OZ/A	PRE	100 a	78 b	98 a	98 a	100 a
5	CONTROL				0 c	0 c	0 b	0 b	0 b
LSD (P=.05)					8.7	17.7	2.4	6.5	2.4
Standard Deviation					4.6	9.4	1.3	3.5	1.3
CV					5.96	12.99	1.62	4.46	1.62

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# The Ohio State University

Weed Code					ELYRE	
Crop Code					VITLA	VITLA
Rating Data Type					CONTROL	INJURY
Rating Unit					PERCENT	PERCENT
Rating Date					Jun-06-01	Jun-06-01
# Subsamples, Dec.					0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg		
					36	37
1	MILESTONE	7.5	OZ/A	PRE	87 b	0 a
2	MILESTONE	15	OZ/A	PRE	93 ab	0 a
3	MILESTONE	30	OZ/A	PRE	97 a	0 a
4	GOAL 2XL + KARMEX	38.4	OZ/A	PRE	87 b	0 a
5	CONTROL	48	OZ/A	PRE	0 c	0 a
LSD (P=.05)					8.2	0.0
Standard Deviation					4.4	0.0
CV					6.02	0.0

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.