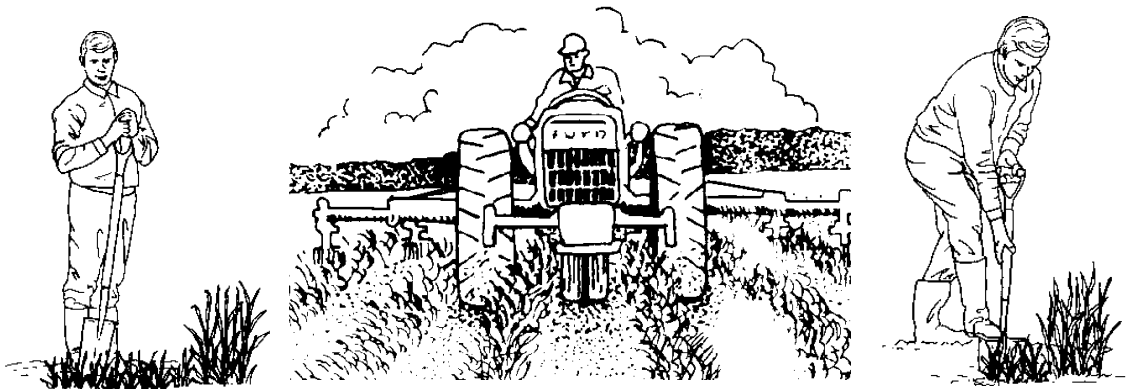


Horticulture and Crop Science  
Series No. 710

# Weed Management in Vegetable Crops

## 2000 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 2000. 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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The Scotts Co. Professional Business Group

United Phosphorus, Inc.

Valent USA Corp.

Zeneca Inc.

Ohio Fruit and Vegetable Growers Association

Ohio Fruit Growers Association

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

AMBTR = Giant Ragweed	PHTAM = Pokeweed
ABUTH = Velvetleaf	PLAMA = Broadleaf plantain
AMAXX = Pigweed species	POLPY = Smartweed
AMBEL = Common ragweed	POROL = Common purslane
AMBTR= Giant ragweed	RHUGL = Sumac
CHEAL = Common lambsquarters	SENVU = Common groundsel
DIGSA = Crabgrass	SETFA = Giant foxtail
MOLVE = Carpetweed	SOLCA = Horsenettle
MORAL = Mulberry	SOLPT = Eastern black nightshade
OXAST = Common yellow woodsorrel	STEME = Common chickweed
PANDI = Fall panicum	TAROF = Common dandelion

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

ALLCE = Dry bulb and green onion	MABSD = Apple
BRSOL = Cabbage	SOLTU = Potato
FRAAN = Strawberry	VITLA = American Grape
LACSA = Lettuce	ZEAMS = Sweet corn
LYPES = Tomato	

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

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

### **A PARTIAL LIST OF RATING INTERVALS AND OTHER CODES USED IN THIS REPORT:**

BROFOL = Broadcast, foliar	KG. = Kilogram
BROSOI = Broadcast, soil	LBS. = Pounds
EPOST = Early post	MARKETAB = Marketable fruits
POST = Post crop and weeds	MISS = Misshapen (fruit)
PPI = Preplant incorporated	MRKET. WT. = Marketable weight
C = Crop	P = Weed or insect pest
D = Diameter	WD. COUNT = Weed count
FRT. WT = Fruit weight	WT. = Weight

**Daily Weather Summary for 4/1/2000 to 8/31/2000 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
4/1/00	.	.	.	5/1/00	0.95	48	72	6/1/00	.	.	.	7/1/00	0.00	50	80	8/1/00	0.14	65	79
4/2/00	.	.	.	5/2/00	0.00	41	62	6/2/00	0.00	59	84	7/2/00	0.00	57	83	8/2/00	0.23	65	84
4/3/00	.	.	.	5/3/00	0.00	40	73	6/3/00	0.00	47	63	7/3/00	1.71	68	75	8/3/00	0.00	57	70
4/4/00	.	.	.	5/4/00	0.00	53	78	6/4/00	0.00	39	68	7/4/00	0.00	65	78	8/4/00	0.00	49	72
4/5/00	.	.	.	5/5/00	0.00	57	80	6/5/00	0.84	52	60	7/5/00	0.00	63	82	8/5/00	0.00	51	78
4/6/00	.	.	.	5/6/00	0.00	58	86	6/6/00	0.03	48	66	7/6/00	0.00	60	73	8/6/00	1.32	61	81
4/7/00	.	.	.	5/7/00	0.00	63	87	6/7/00	0.00	44	76	7/7/00	0.00	50	73	8/7/00	0.08	65	81
4/8/00	.	.	.	5/8/00	0.13	64	83	6/8/00	0.00	60	84	7/8/00	0.00	47	77	8/8/00	0.00	64	79
4/9/00	.	.	.	5/9/00	0.48	62	82	6/9/00	0.00	62	89	7/9/00	0.00	60	87	8/9/00	0.01	68	79
4/10/00	0.00	38	45	5/10/00	0.52	49	64	6/10/00	0.00	63	92	7/10/00	0.16	65	78	8/10/00	0.01	58	78
4/11/00	0.05	33	45	5/11/00	0.00	48	69	6/11/00	0.00	71	89	7/11/00	0.00	57	78	8/11/00	0.00	55	77
4/12/00	0.00	30	45	5/12/00	0.00	67	87	6/12/00	0.00	68	71	7/12/00	0.00	49	80	8/12/00	0.00	51	78
4/13/00	0.00	32	57	5/13/00	0.10	52	74	6/13/00	0.02	68	85	7/13/00	0.00	52	84	8/13/00	0.00	53	79
4/14/00	0.00	37	71	5/14/00	0.00	43	61	6/14/00	0.23	67	89	7/14/00	0.67	60	80	8/14/00	0.00	54	82
4/15/00	0.00	49	75	5/15/00	0.00	36	66	6/15/00	0.13	63	77	7/15/00	0.00	58	74	8/15/00	0.00	62	87
4/16/00	0.01	46	67	5/16/00	0.01	37	66	6/16/00	0.29	65	84	7/16/00	0.26	58	75	8/16/00	0.00	58	78
4/17/00	0.09	39	49	5/17/00	0.10	48	78	6/17/00	0.14	62	75	7/17/00	0.00	59	81	8/17/00	0.13	57	63
4/18/00	0.00	38	49	5/18/00	0.48	56	77	6/18/00	1.54	53	66	7/18/00	0.57	59	74	8/18/00	0.10	56	69
4/19/00	0.00	38	59	5/19/00	1.20	47	60	6/19/00	0.00	46	50	7/19/00	0.09	55	70	8/19/00	0.00	50	70
4/20/00	0.69	49	70	5/20/00	0.00	47	55	6/20/00	0.00	54	81	7/20/00	0.00	54	76	8/20/00	0.00	46	72
4/21/00	0.12	44	55	5/21/00	0.00	49	64	6/21/00	0.28	69	78	7/21/00	0.00	57	76	8/21/00	0.00	41	78
4/22/00	0.03	38	50	5/22/00	0.02	52	68	6/22/00	0.00	63	79	7/22/00	0.00	49	73	8/22/00	0.00	46	80
4/23/00	0.00	32	60	5/23/00	1.55	59	70	6/23/00	0.00	59	81	7/23/00	0.00	54	76	8/23/00	5.43	66	79
4/24/00	0.00	39	48	5/24/00	0.00	57	77	6/24/00	0.04	68	84	7/24/00	0.00	47	76	8/24/00	0.02	60	78
4/25/00	0.00	37	58	5/25/00	0.00	50	70	6/25/00	0.27	66	80	7/25/00	0.00	52	82	8/25/00	0.00	52	79
4/26/00	0.00	28	58	5/26/00	0.00	43	74	6/26/00	0.00	60	84	7/26/00	0.00	61	86	8/26/00	0.00	60	79
4/27/00	0.00	30	60	5/27/00	0.16	57	63	6/27/00	0.00	58	78	7/27/00	0.00	63	88	8/27/00	0.12	60	76
4/28/00	0.00	33	63	5/28/00	1.47	53	58	6/28/00	0.00	51	77	7/28/00	0.00	64	87	8/28/00	0.00	60	80
4/29/00	0.00	37	68	5/29/00	0.00	49	66	6/29/00	0.20	54	75	7/29/00	0.14	66	81	8/29/00	0.00	60	83
4/30/00	0.00	34	70	5/30/00	0.00	51	55	6/30/00	0.01	49	76	7/30/00	0.26	68	79	8/30/00	0.00	65	85
				5/31/00								7/31/00	0.39	68	80	8/31/00	0.00	65	87

**Daily Weather Summary for 4/1/1999 to 8/31/1999 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
4/1/99	0.25	49	74	5/1/99	0.00	34	66	6/1/99	0.42	61	77	7/1/99	0.00	55	78	8/1/99	0.35	67	98
4/2/99	0.00	50	62	5/2/99	0.00	34	67	6/2/99	0.05	64	77	7/2/99	0.17	62	81	8/2/99	0.00	57	85
4/3/99	0.00	53	72	5/3/99	0.00	38	74	6/3/99	0.17	50	77	7/3/99	0.00	66	88	8/3/99	0.00	52	77
4/4/99	0.03	47	78	5/4/99	0.00	38	78	6/4/99	0.00	43	70	7/4/99	0.00	72	93	8/4/99	0.00	56	83
4/5/99	0.31	32	61	5/5/99	0.00	60	81	6/5/99	0.00	50	74	7/5/99	0.00	71	96	8/5/99	0.07	54	84
4/6/99	0.01	35	58	5/6/99	0.01	59	79	6/6/99	0.00	57	89	7/6/99	0.00	71	95	8/6/99	0.00	47	79
4/7/99	0.00	34	73	5/7/99	0.00	47	80	6/7/99	0.00	70	94	7/7/99	0.04	52	93	8/7/99	0.30	47	87
4/8/99	0.00	39	70	5/8/99	0.00	44	78	6/8/99	0.00	64	94	7/8/99	0.00	55	86	8/8/99	0.32	68	85
4/9/99	1.13	43	76	5/9/99	0.11	46	68	6/9/99	0.00	60	92	7/9/99	0.00	64	86	8/9/99	0.00	46	76
4/10/99	0.29	31	49	5/10/99	0.00	35	71	6/10/99	0.00	62	94	7/10/99	0.25	60	93	8/10/99	0.02	54	76
4/11/99	0.56	36	52	5/11/99	0.00	42	71	6/11/99	0.75	63	96	7/11/99	.	.	.	8/11/99	0.02	58	81
4/12/99	0.04	34	62	5/12/99	0.00	48	74	6/12/99	0.00	65	92	7/12/99	0.00	50	75	8/12/99	0.00	55	83
4/13/99	0.00	29	55	5/13/99	0.00	49	66	6/13/99	0.55	62	93	7/13/99	0.00	45	82	8/13/99	0.15	59	85
4/14/99	0.00	29	58	5/14/99	0.11	45	57	6/14/99	1.06	61	87	7/14/99	0.00	55	85	8/14/99	0.52	59	87
4/15/99	0.00	35	68	5/15/99	0.00	50	70	6/15/99	0.02	47	78	7/15/99	0.00	58	87	8/15/99	0.01	48	69
4/16/99	0.96	39	56	5/16/99	0.00	49	77	6/16/99	0.00	40	62	7/16/99	0.00	61	91	8/16/99	0.00	48	76
4/17/99	0.23	34	45	5/17/99	0.00	56	83	6/17/99	0.02	48	67	7/17/99	0.00	64	92	8/17/99	0.00	52	83
4/18/99	0.06	32	54	5/18/99	0.00	61	90	6/18/99	0.00	42	67	7/18/99	0.04	62	92	8/18/99	0.00	58	88
4/19/99	0.10	34	52	5/19/99	0.08	45	69	6/19/99	0.00	45	71	7/19/99	0.61	64	85	8/19/99	0.00	60	76
4/20/99	0.00	36	57	5/20/99	0.00	39	72	6/20/99	0.00	46	76	7/20/99	0.21	67	89	8/20/99	0.08	53	71
4/21/99	0.02	41	58	5/21/99	0.00	44	77	6/21/99	0.00	51	80	7/21/99	0.00	59	83	8/21/99	0.00	47	76
4/22/99	0.06	43	69	5/22/99	0.45	56	84	6/22/99	0.00	50	82	7/22/99	0.36	64	88	8/22/99	0.00	59	81
4/23/99	0.70	42	68	5/23/99	0.08	44	63	6/23/99	0.00	54	84	7/23/99	0.00	61	89	8/23/99	0.00	52	83
4/24/99	0.21	38	47	5/24/99	1.11	47	74	6/24/99	0.00	66	89	7/24/99	0.22	66	93	8/24/99	0.22	57	74
4/25/99	0.00	24	50	5/25/99	0.05	40	59	6/25/99	0.00	63	87	7/25/99	0.04	62	91	8/25/99	0.53	61	79
4/26/99	0.00	31	63	5/26/99	0.00	44	65	6/26/99	0.09	58	83	7/26/99	0.00	57	89	8/26/99	0.03	59	80
4/27/99	0.00	40	71	5/27/99	0.00	37	69	6/27/99	0.02	68	90	7/27/99	0.01	61	84	8/27/99	0.64	57	74
4/28/99	.	.	.	5/28/99	0.00	44	78	6/28/99	0.25	66	85	7/28/99	0.00	64	89	8/28/99	0.00	58	82
4/29/99	0.00	41	59	5/29/99	0.00	53	86	6/29/99	0.01	66	88	7/29/99	0.00	66	91	8/29/99	0.00	54	88
4/30/99	0.00	32	62	5/30/99	0.00	56	89	6/30/99	0.00	49	75	7/30/99	0.07	66	91	8/30/99	0.00	52	74
				5/31/99	0.14	61	89					7/31/99	0.00	71	97	8/31/99	0.00	42	71



**Daily Weather Summary for 4/1/2000 to 8/31/2000 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
4/1/00	0.00	35	60	5/1/00	0.00	46	68	6/1/00	0.00	63	86	7/1/00	0.00	54	78	8/1/00	0.03	65	81
4/2/00	0.00	45	67	5/2/00	1.08	39	70	6/2/00	0.00	68	89	7/2/00	0.00	57	83	8/2/00	0.03	65	83
4/3/00	0.30	47	53	5/3/00	0.00	41	63	6/3/00	0.00	49	83	7/3/00	0.50	66	85	8/3/00	0.21	62	86
4/4/00	0.05	40	63	5/4/00	0.00	50	73	6/4/00	0.00	42	63	7/4/00	0.32	67	80	8/4/00	0.05	49	68
4/5/00	0.00	27	46	5/5/00	0.19	60	81	6/5/00	0.00	49	65	7/5/00	0.00	66	81	8/5/00	0.00	54	75
4/6/00	0.00	30	55	5/6/00	0.00	60	82	6/6/00	1.12	50	59	7/6/00	0.00	63	83	8/6/00	1.13	54	80
4/7/00	0.00	33	61	5/7/00	0.00	65	86	6/7/00	0.00	49	70	7/7/00	0.02	55	71	8/7/00	0.79	64	85
4/8/00	1.11	35	54	5/8/00	0.00	65	86	6/8/00	0.00	56	78	7/8/00	0.00	49	73	8/8/00	0.00	66	84
4/9/00	0.04	25	39	5/9/00	0.00	68	86	6/9/00	0.00	63	85	7/9/00	0.00	53	78	8/9/00	0.00	69	84
4/10/00	0.00	26	53	5/10/00	0.29	55	85	6/10/00	0.00	65	88	7/10/00	0.00	73	88	8/10/00	0.00	59	86
4/11/00	0.10	33	47	5/11/00	0.02	48	67	6/11/00	0.00	69	91	7/11/00	0.04	61	79	8/11/00	0.00	59	79
4/12/00	0.00	26	41	5/12/00	0.01	52	72	6/12/00	0.06	67	88	7/12/00	0.00	52	77	8/12/00	0.00	54	78
4/13/00	0.00	28	47	5/13/00	0.03	61	89	6/13/00	0.56	63	74	7/13/00	0.00	53	78	8/13/00	0.00	55	78
4/14/00	0.00	31	57	5/14/00	0.00	43	73	6/14/00	0.01	67	87	7/14/00	0.00	61	84	8/14/00	0.00	62	80
4/15/00	0.00	45	73	5/15/00	0.00	37	63	6/15/00	1.07	64	89	7/15/00	0.43	59	86	8/15/00	0.00	62	85
4/16/00	0.00	43	77	5/16/00	0.00	40	68	6/16/00	0.00	63	79	7/16/00	0.00	59	79	8/16/00	.	.	.
4/17/00	0.00	41	59	5/17/00	0.05	44	65	6/17/00	0.25	63	82	7/17/00	0.00	60	80	8/17/00	0.00	59	80
4/18/00	0.00	39	46	5/18/00	0.00	53	78	6/18/00	0.92	58	78	7/18/00	0.02	63	87	8/18/00	0.17	59	64
4/19/00	0.00	39	55	5/19/00	1.51	53	79	6/19/00	0.00	49	69	7/19/00	0.02	58	75	8/19/00	0.00	55	73
4/20/00	0.43	48	61	5/20/00	0.01	47	55	6/20/00	0.00	55	78	7/20/00	0.00	55	74	8/20/00	0.00	49	70
4/21/00	0.61	45	73	5/21/00	0.00	48	60	6/21/00	1.58	60	82	7/21/00	0.00	61	80	8/21/00	0.00	44	71
4/22/00	0.02	41	52	5/22/00	0.00	50	66	6/22/00	0.00	63	81	7/22/00	0.00	52	79	8/22/00	0.00	54	76
4/23/00	0.00	32	56	5/23/00	0.05	55	72	6/23/00	0.00	57	80	7/23/00	0.00	56	76	8/23/00	0.08	54	81
4/24/00	0.00	38	61	5/24/00	0.16	56	72	6/24/00	0.00	61	83	7/24/00	0.00	48	75	8/24/00	0.04	63	83
4/25/00	0.00	38	62	5/25/00	0.00	49	79	6/25/00	1.34	69	83	7/25/00	0.00	50	75	8/25/00	0.00	51	78
4/26/00	0.00	32	59	5/26/00	0.00	43	72	6/26/00	0.24	65	82	7/26/00	0.00	56	81	8/26/00	0.00	56	82
4/27/00	0.00	39	60	5/27/00	0.15	57	76	6/27/00	0.24	60	83	7/27/00	0.04	64	86	8/27/00	0.28	58	83
4/28/00	0.00	34	58	5/28/00	0.94	55	64	6/28/00	0.00	52	82	7/28/00	0.00	64	88	8/28/00	0.00	58	79
4/29/00	0.00	37	60	5/29/00	0.59	49	60	6/29/00	0.07	59	77	7/29/00	0.29	64	84	8/29/00	0.00	60	81
4/30/00	0.00	37	68	5/30/00	0.00	50	67	6/30/00	0.03	51	77	7/30/00	2.06	65	84	8/30/00	0.00	64	86
				5/31/00	0.00	58	76					7/31/00	0.22	67	81	8/31/00	0.00	61	85

**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	0.00	29	64	5/1/00	0.69	45	69	6/1/00	0.00	61	83	7/1/00	0.00	56	79	8/1/00	0.31	68	83
4/2/00	0.31	46	57	5/2/00	0.00	38	58	6/2/00	0.07	54	82	7/2/00	0.00	60	86	8/2/00	2.16	65	84
4/3/00	1.04	46	66	5/3/00	0.00	36	64	6/3/00	0.00	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	0.00	42	66	7/4/00	0.01	58	74	8/4/00	0.00	55	70
4/5/00	0.01	31	47	5/5/00	0.00	61	78	6/5/00	0.86	52	58	7/5/00	0.00	57	75	8/5/00	0.00	52	75
4/6/00	0.00	35	57	5/6/00	0.00	62	81	6/6/00	0.67	46	62	7/6/00	0.02	54	74	8/6/00	1.10	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	0.00	50	70	8/7/00	0.00	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	0.00	47	74	8/8/00	0.00	65	85
4/9/00	0.10	33	40	5/9/00	0.00	62	86	6/9/00	0.00	65	88	7/9/00	1.87	57	84	8/9/00	0.36	64	86
4/10/00	0.00	33	38	5/10/00	0.54	47	68	6/10/00	0.01	64	89	7/10/00	0.00	63	79	8/10/00	0.00	61	76
4/11/00	0.05	31	40	5/11/00	0.00	47	72	6/11/00	0.07	70	86	7/11/00	0.00	56	76	8/11/00	0.00	58	74
4/12/00	0.00	27	43	5/12/00	0.00	63	83	6/12/00	0.53	57	71	7/12/00	0.00	53	77	8/12/00	0.00	54	74
4/13/00	0.00	25	54	5/13/00	0.08	50	77	6/13/00	0.15	61	82	7/13/00	0.00	57	78	8/13/00	0.00	55	75
4/14/00	0.00	42	74	5/14/00	0.00	48	58	6/14/00	0.58	66	92	7/14/00	0.39	59	74	8/14/00	0.00	56	79
4/15/00	0.00	52	72	5/15/00	0.00	37	61	6/15/00	0.14	63	82	7/15/00	0.01	60	74	8/15/00	0.00	64	87
4/16/00	0.00	42	58	5/16/00	0.00	39	69	6/16/00	0.09	64	86	7/16/00	0.31	61	72	8/16/00	0.00	61	77
4/17/00	0.00	39	46	5/17/00	0.28	52	79	6/17/00	0.11	59	74	7/17/00	0.00	60	83	8/17/00	0.06	50	65
4/18/00	0.00	40	52	5/18/00	1.88	51	76	6/18/00	0.31	50	63	7/18/00	0.00	54	73	8/18/00	0.00	57	71
4/19/00	0.00	44	62	5/19/00	0.40	45	52	6/19/00	0.00	48	72	7/19/00	0.00	53	68	8/19/00	0.00	55	70
4/20/00	2.06	48	63	5/20/00	0.03	47	50	6/20/00	0.00	55	84	7/20/00	0.00	51	75	8/20/00	0.00	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	0.00	44	73
4/22/00	0.02	42	45	5/22/00	0.00	42	67	6/22/00	0.00	61	80	7/22/00	0.00	54	70	8/22/00	0.00	54	80
4/23/00	0.00	40	57	5/23/00	0.04	57	70	6/23/00	0.00	55	77	7/23/00	0.00	51	71	8/23/00	1.14	62	77
4/24/00	0.00	37	59	5/24/00	0.19	55	77	6/24/00	0.16	63	90	7/24/00	0.00	50	73	8/24/00	0.01	55	76
4/25/00	0.00	35	53	5/25/00	0.00	48	66	6/25/00	0.19	65	78	7/25/00	0.00	57	80	8/25/00	0.00	53	76
4/26/00	0.00	30	53	5/26/00	0.00	42	68	6/26/00	0.30	61	87	7/26/00	0.00	62	86	8/26/00	0.00	56	79
4/27/00	0.00	31	53	5/27/00	0.00	48	65	6/27/00	0.01	58	76	7/27/00	0.00	62	87	8/27/00	0.03	61	73
4/28/00	0.00	31	61	5/28/00	0.00	49	60	6/28/00	0.00	57	76	7/28/00	0.00	64	86	8/28/00	0.01	59	82
4/29/00	0.00	35	65	5/29/00	0.00	48	68	6/29/00	0.22	55	71	7/29/00	0.00	61	81	8/29/00	0.00	64	85
4/30/00	0.00	38	59	5/30/00	0.00	50	74	6/30/00	0.00	53	75	7/30/00	0.26	68	86	8/30/00	0.00	66	84
				5/31/00	0.00	58	87					7/31/00	0.00	69	86	8/31/00	0.00	65	89

**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.**

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

# The Ohio State University

## INSECT MANAGEMENT AND HERBICIDE TOLERANCE WITH ATTRIBUTE SWEET CORN [I]

Trial ID: ATTRIBWOOSTR-2000      Study Dir.: DR.DOUGLAS J.DOOHAN AND J.FELIX  
 Location: WOOSTER, OHIO      Investigator: Dr. Douglas J. Doohan

### GENERAL TRIAL INFORMATION

Study Director: DR.DOUGLAS J.DOOHAN AND J.FELIX      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  
 State/Prov.: OHIO  
 Postal Code: 44691  
 Country: USA  
 Directions: FROM WOOSTER, TAKE SR 250 EAST PAST STATE HIGHWAY PATROL TO FRYE FARM

### COOPERATOR/LANDOWNER

Cooperator: LYNN AULT  
 Org: OARDC-SHAFFTER FARM      Phone No: 330-262-3178  
 Address 1: OIL CITY RD.(SOUTH)  
 City: WOOSTER  
 State/Prov: OHIO  
 Postal Code: 44691

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

Objective: EVALUATE WEED AND INSECT MANAGEMENT SYSTEMS IN TRANSGENIC AND NON-TRANSGENIC (ISOLINES) SWEET CORN HYBRIDS.

Crop 1: ZEAMS SWEET CORN      Variety: VARIOUS  
 Planting Date: Jun-03-00      Planting Method: CORN PLANTER  
 Rate: 28000 PLANTS/A      Depth: 2 IN      Perennial Age: 0 0  
 Row Spacing: 30 INCH      Seed Bed: CONVENTIONAL  
 Soil Temperature: 52 F      Soil Moisture: MOIST      Emergence Date: Jun-15-00

### SITE AND DESIGN

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

### SOIL DESCRIPTION

% OM: 3.0      Texture: SILT LOAM  
 pH: 6.5      Soil Name: WOOSTER SILT LOAM  
 Fert. Level: MODERATE

# The Ohio State University

## INSECT MANAGEMENT AND HERBICIDE TOLERANCE WITH ATTRIBUTE SWEET CORN [I]

Trial ID: ATTRIBWOOSTR-2000 Study Dir.: DR.DOUGLAS J.DOohan AND J.FELIX  
 Location: WOOSTER, OHIO Investigator: Dr. Douglas J. Doohan

### APPLICATION DESCRIPTION

	A	B
Application Date:	06/30/2000	07/05/2000
Time of Day:	12-1PM	1-2PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	BDCST	BDCST
Air Temp., Unit:	64 F	70 F
% Relative Humidity:	72	75
Wind Velocity, Unit:	2 MPH	2 MPH
Dew Presence (Y/N):	N	N
Water Hardness:	SOFT	SOFT
Soil Temp., Unit:	55 F	60 F
Soil Moisture:	DRY	MOIST
% Cloud Cover:	75	75

### CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMS PRE	ZEAMS POST
Stage Scale:	3-4 LEAF	5-7 LEAF
Height, Unit:	6 IN	8 IN

### WEED STAGE AT EACH APPLICATION

	A	B
	NONE	NONE
Stage Scale:	NONE	NONE
Density, Unit:	0 0	0 0

### APPLICATION EQUIPMENT

	A
Appl. Equipment:	TRACTOR
Operating Pressure:	35 PSI
Nozzle Type:	FFAN
Nozzle Size:	8002VS
Nozzle Spacing, Unit:	18 IN
Nozzles/Row:	8
Band Width, Unit:	10 FT
Boom Length, Unit:	10 FT
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:	25 GPA
Spray pH:	0
Propellant:	CO2
Tank Mix (Y/N):	N

# The Ohio State University

INSECT MANAGEMENT AND HERBICIDE TOLERANCE WITH ATTRIBUTE SWEET CORN [I]

Trial ID: ATTRIBWOOSTR-2000      Study Dir.: DR.DOUGLAS J.DOohan AND J.FELIX  
Location: WOOSTER, OHIO      Investigator: Dr. Douglas J. Doohan

## Trial Comments

6/3/00-PRE SPRAY-NO WEEDS PRESENT-CORN AT 3 COLLAR STAGE-5 TO 7" TALL (3-4 LF) STAKE IN PLOT CENTER  
ON 7/5/00,CORN WAS 6-9" TALL,WITH 5-7 LEAVES.

APPLICATION EQUIPMENT WAS THE SAME FOR BOTH TIMINGS.

# The Ohio State University

## INSECT MANAGEMENT AND HERBICIDE TOLERANCE WITH ATTRIBUTE SWEET CORN [I]

Trial ID: ATTRIBWOOSTR-2000 Study Dir.: DR.DOUGLAS J.DOOHAN AND J.FELIX

Location: WOOSTER, OHIO Investigator: Dr. Douglas J. Doohan

Crop Code							ZEAMS	ZEAMS	ZEAMS	
Part Rated							CROP	CROP	CROP	
Rating Data Type							CHLOROSI	GR INHIB	INJURY	
Rating Unit							%	%	%	
Rating Date							7/12/00	7/12/00	7/12/00	
# Subsamples, Dec.							0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3
1	ATRAZINE (V3 W1)	90	DG	1.11	LB/A	PRE	A	0 a	3 c	3 c
	GLUFOSINATE (V3 W1)	1.67	EC	28	OZ/A	POST	B			
2	ATRAZINE (V6 W2)	90	DG	1.11	LB/A	PRE	A	0 a	14 a	14 a
	BENTAZON (V6 W2)	4	EC	3.6	PT/A	POST	B			
3	ATRAZINE (V3 W3)	90	DG	1.11	LB/A	PRE	A	0 a	11 a	11 a
	S METOLACHLOR (V3 W3)	7.62	EC	2.1	PT/A	PRE	A			
	GLUFOSINATE (V3 W3)	1.67	EC	28	OZ/A	POST	B			
4	ATRAZINE (V6 W4)	90	DG	1.11	LB/A	PRE	A	0 a	11 a	11 a
	S METOLACHLOR (V6 W4)	7.62	EC	2.1	PT/A	PRE	A			
	BENTAZON (V6 W4)	4	EC	3.6	PT/A	POST	B			
5	ATRAZINE (V1 W1)	90	DG	1.11	LB/A	PRE	A	0 a	4 bc	4 bc
	GLUFOSINATE (V1 W1)	1.67	EC	28	OZ/A	POST	B			
6	ATRAZINE (V4 W2)	90	DG	1.11	LB/A	PRE	A	0 a	3 c	3 c
	BENTAZON (V4 W2)	4	EC	3.6	PT/A	POST	B			
7	ATRAZINE (V1 W3)	90	DG	1.11	LB/A	PRE	A	0 a	4 bc	4 bc
	S METOLACHLOR (V1 W3)	7.62	EC	2.1	PT/A	PRE	A			
	GLUFOSINATE (V1 W3)	1.67	EC	28	OZ/A	POST	B			
8	ATRAZINE (V4 W4)	90	DG	1.11	LB/A	PRE	A	0 a	3 c	3 c
	S METOLACHLOR (V4 W4)	7.62	EC	2.1	PT/A	PRE	A			
	BENTAZON (V4 W4)	4	EC	3.6	PT/A	POST	B			
9	ATRAZINE (V2 W1)	90	DG	1.11	LB/A	PRE	A	0 a	9 ab	9 ab
	GLUFOSINATE (V2 W1)	1.67	EC	28	OZ/A	POST	B			
10	ATRAZINE (V5 W2)	90	DG	1.11	LB/A	PRE	A	0 a	3 c	3 c
	BENTAZON (V5 W2)	4	EC	3.6	PT/A	POST	B			
11	ATRAZINE (V2 W3)	90	DG	1.11	LB/A	PRE	A	0 a	9 ab	9 ab
	S METOLACHLOR (V2 W3)	7.62	EC	2.1	PT/A	PRE	A			
	GLUFOSINATE (V2 W3)	1.67	EC	28	OZ/A	POST	B			
12	ATRAZINE (V5 W4)	90	DG	1.11	LB/A	PRE	A	0 a	4 bc	4 bc
	S METOLACHLOR (V5 W4)	7.62	EC	2.1	PT/A	PRE	A			
	BENTAZON (V5 W4)	4	EC	3.6	PT/A	POST	B			
LSD (P=.05)							0	5.3	5.3	
Standard Deviation							0	3.7	3.7	
CV							0	58.53	58.53	

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

# The Ohio State University

## INSECT MANAGEMENT AND HERBICIDE TOLERANCE WITH ATTRIBUTE SWEET CORN [I]

Trial ID: ATTRIBWOOSTR-2000 Study Dir.: DR.DOUGLAS J.DOOHAN AND J.FELIX

Location: WOOSTER, OHIO Investigator: Dr. Douglas J. Doohan

Crop Code							ZEAMS	ZEAMS	ZEAMS	
Part Rated							CROP	CROP	CROP	
Rating Data Type							CHLOROSI	GR INHIB	INJURY	
Rating Unit							%	%	%	
Rating Date							7/19/00	7/19/00	7/19/00	
# Subsamples, Dec.							0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	4	5	6
1	ATRAZINE (V3 W1)	90	DG	1.11	LB/A	PRE	A	0 a	1 c	1 c
	GLUFOSINATE (V3 W1)	1.67	EC	28	OZ/A	POST	B			
2	ATRAZINE (V6 W2)	90	DG	1.11	LB/A	PRE	A	0 a	9 a	9 a
	BENTAZON (V6 W2)	4	EC	3.6	PT/A	POST	B			
3	ATRAZINE (V3 W3)	90	DG	1.11	LB/A	PRE	A	0 a	3 bc	3 bc
	S METOLACHLOR (V3 W3)	7.62	EC	2.1	PT/A	PRE	A			
	GLUFOSINATE (V3 W3)	1.67	EC	28	OZ/A	POST	B			
4	ATRAZINE (V6 W4)	90	DG	1.11	LB/A	PRE	A	0 a	8 ab	8 ab
	S METOLACHLOR (V6 W4)	7.62	EC	2.1	PT/A	PRE	A			
	BENTAZON (V6 W4)	4	EC	3.6	PT/A	POST	B			
5	ATRAZINE (V1 W1)	90	DG	1.11	LB/A	PRE	A	0 a	1 c	1 c
	GLUFOSINATE (V1 W1)	1.67	EC	28	OZ/A	POST	B			
6	ATRAZINE (V4 W2)	90	DG	1.11	LB/A	PRE	A	0 a	1 c	1 c
	BENTAZON (V4 W2)	4	EC	3.6	PT/A	POST	B			
7	ATRAZINE (V1 W3)	90	DG	1.11	LB/A	PRE	A	0 a	1 c	1 c
	S METOLACHLOR (V1 W3)	7.62	EC	2.1	PT/A	PRE	A			
	GLUFOSINATE (V1 W3)	1.67	EC	28	OZ/A	POST	B			
8	ATRAZINE (V4 W4)	90	DG	1.11	LB/A	PRE	A	0 a	3 bc	3 bc
	S METOLACHLOR (V4 W4)	7.62	EC	2.1	PT/A	PRE	A			
	BENTAZON (V4 W4)	4	EC	3.6	PT/A	POST	B			
9	ATRAZINE (V2 W1)	90	DG	1.11	LB/A	PRE	A	0 a	6 abc	6 abc
	GLUFOSINATE (V2 W1)	1.67	EC	28	OZ/A	POST	B			
10	ATRAZINE (V5 W2)	90	DG	1.11	LB/A	PRE	A	0 a	5 abc	5 abc
	BENTAZON (V5 W2)	4	EC	3.6	PT/A	POST	B			
11	ATRAZINE (V2 W3)	90	DG	1.11	LB/A	PRE	A	0 a	6 abc	6 abc
	S METOLACHLOR (V2 W3)	7.62	EC	2.1	PT/A	PRE	A			
	GLUFOSINATE (V2 W3)	1.67	EC	28	OZ/A	POST	B			
12	ATRAZINE (V5 W4)	90	DG	1.11	LB/A	PRE	A	0 a	3 bc	3 bc
	S METOLACHLOR (V5 W4)	7.62	EC	2.1	PT/A	PRE	A			
	BENTAZON (V5 W4)	4	EC	3.6	PT/A	POST	B			
LSD (P=.05)							0	5.8	5.8	
Standard Deviation							0	4	4	
CV							0	104.76	104.76	

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



# The Ohio State University

## INSECT MANAGEMENT AND HERBICIDE TOLERANCE WITH ATTRIBUTE SWEET CORN [I]

Trial ID: ATTRIBWOOSTR-2000 Study Dir.: DR.DOUGLAS J.DOOHAN AND J.FELIX

Location: WOOSTER, OHIO Investigator: Dr. Douglas J. Doohan

Crop Code							ZEAMS	ZEAMS	ZEAMS	
Part Rated							CROP	CROP	CROP	
Rating Data Type							CHLOROSI	GR INHIB	INJURY	
Rating Unit							%	%	%	
Rating Date							8/3/00	8/3/00	8/3/00	
# Subsamples, Dec.							0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	7	8	9
1	ATRAZINE (V3 W1)	90	DG	1.11	LB/A	PRE	A	0 a	1 bc	1 bc
	GLUFOSINATE (V3 W1)	1.67	EC	28	OZ/A	POST	B			
2	ATRAZINE (V6 W2)	90	DG	1.11	LB/A	PRE	A	0 a	6 a	6 a
	BENTAZON (V6 W2)	4	EC	3.6	PT/A	POST	B			
3	ATRAZINE (V3 W3)	90	DG	1.11	LB/A	PRE	A	0 a	1 bc	1 bc
	S METOLACHLOR (V3 W3)	7.62	EC	2.1	PT/A	PRE	A			
	GLUFOSINATE (V3 W3)	1.67	EC	28	OZ/A	POST	B			
4	ATRAZINE (V6 W4)	90	DG	1.11	LB/A	PRE	A	0 a	5 ab	5 ab
	S METOLACHLOR (V6 W4)	7.62	EC	2.1	PT/A	PRE	A			
	BENTAZON (V6 W4)	4	EC	3.6	PT/A	POST	B			
5	ATRAZINE (V1 W1)	90	DG	1.11	LB/A	PRE	A	0 a	1 bc	1 bc
	GLUFOSINATE (V1 W1)	1.67	EC	28	OZ/A	POST	B			
6	ATRAZINE (V4 W2)	90	DG	1.11	LB/A	PRE	A	0 a	1 bc	1 bc
	BENTAZON (V4 W2)	4	EC	3.6	PT/A	POST	B			
7	ATRAZINE (V1 W3)	90	DG	1.11	LB/A	PRE	A	0 a	1 bc	1 bc
	S METOLACHLOR (V1 W3)	7.62	EC	2.1	PT/A	PRE	A			
	GLUFOSINATE (V1 W3)	1.67	EC	28	OZ/A	POST	B			
8	ATRAZINE (V4 W4)	90	DG	1.11	LB/A	PRE	A	0 a	3 abc	3 abc
	S METOLACHLOR (V4 W4)	7.62	EC	2.1	PT/A	PRE	A			
	BENTAZON (V4 W4)	4	EC	3.6	PT/A	POST	B			
9	ATRAZINE (V2 W1)	90	DG	1.11	LB/A	PRE	A	0 a	5 ab	5 ab
	GLUFOSINATE (V2 W1)	1.67	EC	28	OZ/A	POST	B			
10	ATRAZINE (V5 W2)	90	DG	1.11	LB/A	PRE	A	0 a	3 abc	3 abc
	BENTAZON (V5 W2)	4	EC	3.6	PT/A	POST	B			
11	ATRAZINE (V2 W3)	90	DG	1.11	LB/A	PRE	A	0 a	4 abc	4 abc
	S METOLACHLOR (V2 W3)	7.62	EC	2.1	PT/A	PRE	A			
	GLUFOSINATE (V2 W3)	1.67	EC	28	OZ/A	POST	B			
12	ATRAZINE (V5 W4)	90	DG	1.11	LB/A	PRE	A	0 a	0 c	0 c
	S METOLACHLOR (V5 W4)	7.62	EC	2.1	PT/A	PRE	A			
	BENTAZON (V5 W4)	4	EC	3.6	PT/A	POST	B			
LSD (P=.05)							0	4.5	4.5	
Standard Deviation							0	3.1	3.1	
CV							0	119.05	119.05	

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

# The Ohio State University

## INSECT MANAGEMENT AND HERBICIDE TOLERANCE WITH ATTRIBUTE SWEET CORN [I]

Trial ID: ATTRIBWOOSTR-2000 Study Dir.: DR.DOUGLAS J.DOOHAN AND J.FELIX

Location: WOOSTER, OHIO Investigator: Dr. Douglas J. Doohan

Crop Code							ZEAMS	ZEAMS	ZEAMS	
Part Rated							PLANT	PLANT	EAR	
Rating Data Type							HEIGHT	GRD-EAR	FILL	
Rating Unit							FT	IN	CM	
Rating Date										
# Subsamples, Dec.							0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	10	11	12
1	ATRAZINE (V3 W1)	90	DG	1.11	LB/A	PRE	A	6 ab	22 cde	18 ab
	GLUFOSINATE (V3 W1)	1.67	EC	28	OZ/A	POST	B			
2	ATRAZINE (V6 W2)	90	DG	1.11	LB/A	PRE	A	5 b	19 f	18 b
	BENTAZON (V6 W2)	4	EC	3.6	PT/A	POST	B			
3	ATRAZINE (V3 W3)	90	DG	1.11	LB/A	PRE	A	6 ab	22 c-f	18 ab
	S METOLACHLOR (V3 W3)	7.62	EC	2.1	PT/A	PRE	A			
	GLUFOSINATE (V3 W3)	1.67	EC	28	OZ/A	POST	B			
4	ATRAZINE (V6 W4)	90	DG	1.11	LB/A	PRE	A	6 ab	21 ef	18 ab
	S METOLACHLOR (V6 W4)	7.62	EC	2.1	PT/A	PRE	A			
	BENTAZON (V6 W4)	4	EC	3.6	PT/A	POST	B			
5	ATRAZINE (V1 W1)	90	DG	1.11	LB/A	PRE	A	6 a	26 a	18 ab
	GLUFOSINATE (V1 W1)	1.67	EC	28	OZ/A	POST	B			
6	ATRAZINE (V4 W2)	90	DG	1.11	LB/A	PRE	A	6 a	22 b-e	18 ab
	BENTAZON (V4 W2)	4	EC	3.6	PT/A	POST	B			
7	ATRAZINE (V1 W3)	90	DG	1.11	LB/A	PRE	A	6 a	25 ab	18 ab
	S METOLACHLOR (V1 W3)	7.62	EC	2.1	PT/A	PRE	A			
	GLUFOSINATE (V1 W3)	1.67	EC	28	OZ/A	POST	B			
8	ATRAZINE (V4 W4)	90	DG	1.11	LB/A	PRE	A	6 ab	22 c-f	19 ab
	S METOLACHLOR (V4 W4)	7.62	EC	2.1	PT/A	PRE	A			
	BENTAZON (V4 W4)	4	EC	3.6	PT/A	POST	B			
9	ATRAZINE (V2 W1)	90	DG	1.11	LB/A	PRE	A	6 a	24 abc	18 ab
	GLUFOSINATE (V2 W1)	1.67	EC	28	OZ/A	POST	B			
10	ATRAZINE (V5 W2)	90	DG	1.11	LB/A	PRE	A	6 a	22 c-f	19 a
	BENTAZON (V5 W2)	4	EC	3.6	PT/A	POST	B			
11	ATRAZINE (V2 W3)	90	DG	1.11	LB/A	PRE	A	6 a	24 a-d	18 b
	S METOLACHLOR (V2 W3)	7.62	EC	2.1	PT/A	PRE	A			
	GLUFOSINATE (V2 W3)	1.67	EC	28	OZ/A	POST	B			
12	ATRAZINE (V5 W4)	90	DG	1.11	LB/A	PRE	A	6 a	21 def	18 ab
	S METOLACHLOR (V5 W4)	7.62	EC	2.1	PT/A	PRE	A			
	BENTAZON (V5 W4)	4	EC	3.6	PT/A	POST	B			
LSD (P=.05)							0.6	2.9	0.8	
Standard Deviation							0.4	2	0.6	
CV							6.58	8.82	3.2	

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

# The Ohio State University

## INSECT MANAGEMENT AND HERBICIDE TOLERANCE WITH ATTRIBUTE SWEET CORN [I]

Trial ID: ATTRIBWOOSTR-2000 Study Dir.: DR.DOUGLAS J.DOOHAN AND J.FELIX

Location: WOOSTER, OHIO Investigator: Dr. Douglas J. Doohan

Crop Code							ZEAMS	ZEAMS	ZEAMS	
Part Rated							EAR	SHANK	KERNEL	
Rating Data Type							LENGTH	LENGTH	ROWS	
Rating Unit							CM	CM	#	
Rating Date										
# Subsamples, Dec.							0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	13	14	15
1	ATRAZINE (V3 W1)	90	DG	1.11	LB/A	PRE	A	19 ab	8 a-d	18 a
	GLUFOSINATE (V3 W1)	1.67	EC	28	OZ/A	POST	B			
2	ATRAZINE (V6 W2)	90	DG	1.11	LB/A	PRE	A	18 b	8 a-e	17 bcd
	BENTAZON (V6 W2)	4	EC	3.6	PT/A	POST	B			
3	ATRAZINE (V3 W3)	90	DG	1.11	LB/A	PRE	A	19 a	10 a	18 ab
	S METOLACHLOR (V3 W3)	7.62	EC	2.1	PT/A	PRE	A			
	GLUFOSINATE (V3 W3)	1.67	EC	28	OZ/A	POST	B			
4	ATRAZINE (V6 W4)	90	DG	1.11	LB/A	PRE	A	18 b	9 ab	18 a
	S METOLACHLOR (V6 W4)	7.62	EC	2.1	PT/A	PRE	A			
	BENTAZON (V6 W4)	4	EC	3.6	PT/A	POST	B			
5	ATRAZINE (V1 W1)	90	DG	1.11	LB/A	PRE	A	18 b	9 abc	17 bcd
	GLUFOSINATE (V1 W1)	1.67	EC	28	OZ/A	POST	B			
6	ATRAZINE (V4 W2)	90	DG	1.11	LB/A	PRE	A	18 b	7 de	16 cd
	BENTAZON (V4 W2)	4	EC	3.6	PT/A	POST	B			
7	ATRAZINE (V1 W3)	90	DG	1.11	LB/A	PRE	A	18 b	8 a-e	17 bcd
	S METOLACHLOR (V1 W3)	7.62	EC	2.1	PT/A	PRE	A			
	GLUFOSINATE (V1 W3)	1.67	EC	28	OZ/A	POST	B			
8	ATRAZINE (V4 W4)	90	DG	1.11	LB/A	PRE	A	19 ab	7 e	16 cd
	S METOLACHLOR (V4 W4)	7.62	EC	2.1	PT/A	PRE	A			
	BENTAZON (V4 W4)	4	EC	3.6	PT/A	POST	B			
9	ATRAZINE (V2 W1)	90	DG	1.11	LB/A	PRE	A	18 b	8 a-e	17 abc
	GLUFOSINATE (V2 W1)	1.67	EC	28	OZ/A	POST	B			
10	ATRAZINE (V5 W2)	90	DG	1.11	LB/A	PRE	A	19 ab	7 cde	16 cd
	BENTAZON (V5 W2)	4	EC	3.6	PT/A	POST	B			
11	ATRAZINE (V2 W3)	90	DG	1.11	LB/A	PRE	A	18 b	7 cde	17 abc
	S METOLACHLOR (V2 W3)	7.62	EC	2.1	PT/A	PRE	A			
	GLUFOSINATE (V2 W3)	1.67	EC	28	OZ/A	POST	B			
12	ATRAZINE (V5 W4)	90	DG	1.11	LB/A	PRE	A	18 b	8 b-e	16 d
	S METOLACHLOR (V5 W4)	7.62	EC	2.1	PT/A	PRE	A			
	BENTAZON (V5 W4)	4	EC	3.6	PT/A	POST	B			
LSD (P=.05)							0.9	1.6	1.1	
Standard Deviation							0.6	1.1	0.8	
CV							3.23	13.47	4.57	

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

# The Ohio State University

## INSECT MANAGEMENT AND HERBICIDE TOLERANCE WITH ATTRIBUTE SWEET CORN [I]

Trial ID: ATTRIBWOOSTR-2000 Study Dir.: DR.DOUGLAS J.DOOHAN AND J.FELIX

Location: WOOSTER, OHIO Investigator: Dr. Douglas J. Doohan

Crop Code							ZEAMS	ZEAMS	ZEAMS	ZEAMS	
Part Rated							KERNEL	20 EAR	INSECT	INSECT	
Rating Data Type							NUMBER	WEIGHT	NONE	< INCH	
Rating Unit							PER ROW	KG	%	%	
Rating Date											
# Subsamples, Dec.							0	0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	16	17	18	19
1	ATRAZINE (V3 W1)	90	DG	1.11	LB/A	PRE	A	40 a	5 abc	100 a	0 d
	GLUFOSINATE (V3 W1)	1.67	EC	28	OZ/A	POST	B				
2	ATRAZINE (V6 W2)	90	DG	1.11	LB/A	PRE	A	40 a	5 ab	90 ab	10 bcd
	BENTAZON (V6 W2)	4	EC	3.6	PT/A	POST	B				
3	ATRAZINE (V3 W3)	90	DG	1.11	LB/A	PRE	A	40 a	5 ab	91 ab	9 bcd
	S METOLACHLOR (V3 W3)	7.62	EC	2.1	PT/A	PRE	A				
	GLUFOSINATE (V3 W3)	1.67	EC	28	OZ/A	POST	B				
4	ATRAZINE (V6 W4)	90	DG	1.11	LB/A	PRE	A	39 a	5 a	84 b	15 ab
	S METOLACHLOR (V6 W4)	7.62	EC	2.1	PT/A	PRE	A				
	BENTAZON (V6 W4)	4	EC	3.6	PT/A	POST	B				
5	ATRAZINE (V1 W1)	90	DG	1.11	LB/A	PRE	A	35 bc	4 bcd	99 a	1 cd
	GLUFOSINATE (V1 W1)	1.67	EC	28	OZ/A	POST	B				
6	ATRAZINE (V4 W2)	90	DG	1.11	LB/A	PRE	A	36 bc	4 def	86 b	9 bcd
	BENTAZON (V4 W2)	4	EC	3.6	PT/A	POST	B				
7	ATRAZINE (V1 W3)	90	DG	1.11	LB/A	PRE	A	36 b	4 cde	93 ab	8 bcd
	S METOLACHLOR (V1 W3)	7.62	EC	2.1	PT/A	PRE	A				
	GLUFOSINATE (V1 W3)	1.67	EC	28	OZ/A	POST	B				
8	ATRAZINE (V4 W4)	90	DG	1.11	LB/A	PRE	A	36 b	4 f	71 c	24 a
	S METOLACHLOR (V4 W4)	7.62	EC	2.1	PT/A	PRE	A				
	BENTAZON (V4 W4)	4	EC	3.6	PT/A	POST	B				
9	ATRAZINE (V2 W1)	90	DG	1.11	LB/A	PRE	A	34 c	4 ef	100 a	0 d
	GLUFOSINATE (V2 W1)	1.67	EC	28	OZ/A	POST	B				
10	ATRAZINE (V5 W2)	90	DG	1.11	LB/A	PRE	A	36 b	4 def	83 bc	16 ab
	BENTAZON (V5 W2)	4	EC	3.6	PT/A	POST	B				
11	ATRAZINE (V2 W3)	90	DG	1.11	LB/A	PRE	A	35 bc	4 ef	91 ab	5 bcd
	S METOLACHLOR (V2 W3)	7.62	EC	2.1	PT/A	PRE	A				
	GLUFOSINATE (V2 W3)	1.67	EC	28	OZ/A	POST	B				
12	ATRAZINE (V5 W4)	90	DG	1.11	LB/A	PRE	A	35 bc	4 def	86 b	13 abc
	S METOLACHLOR (V5 W4)	7.62	EC	2.1	PT/A	PRE	A				
	BENTAZON (V5 W4)	4	EC	3.6	PT/A	POST	B				
LSD (P=.05)							1.6	0.5	12.5	12.1	
Standard Deviation							1.1	0.3	8.6	8.3	
CV							3.05	8.03	9.66	92.13	

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

# The Ohio State University

## INSECT MANAGEMENT AND HERBICIDE TOLERANCE WITH ATTRIBUTE SWEET CORN [I]

Trial ID: ATTRIBWOOSTR-2000 Study Dir.: DR.DOUGLAS J.DOOHAN AND J.FELIX

Location: WOOSTER, OHIO Investigator: Dr. Douglas J. Doohan

Crop Code							ZEAMS	ZEAMS	ZEAMS	ZEAMS	
Part Rated							INSECT	INSECT	INSECT	INSECT	
Rating Data Type							> INCH	ECB	CEW	FAW	
Rating Unit							%	#	#	#	
Rating Date											
# Subsamples, Dec.							0	0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	20	21	22	23
1	ATRAZINE (V3 W1)	90	DG	1.11	LB/A	PRE	A	0 b	0 d	0 b	0 a
	GLUFOSINATE (V3 W1)	1.67	EC	28	OZ/A	POST	B				
2	ATRAZINE (V6 W2)	90	DG	1.11	LB/A	PRE	A	1 b	3 cd	4 ab	0 a
	BENTAZON (V6 W2)	4	EC	3.6	PT/A	POST	B				
3	ATRAZINE (V3 W3)	90	DG	1.11	LB/A	PRE	A	1 b	0 d	4 ab	0 a
	S METOLACHLOR (V3 W3)	7.62	EC	2.1	PT/A	PRE	A				
	GLUFOSINATE (V3 W3)	1.67	EC	28	OZ/A	POST	B				
4	ATRAZINE (V6 W4)	90	DG	1.11	LB/A	PRE	A	3 ab	11 ab	5 ab	0 a
	S METOLACHLOR (V6 W4)	7.62	EC	2.1	PT/A	PRE	A				
	BENTAZON (V6 W4)	4	EC	3.6	PT/A	POST	B				
5	ATRAZINE (V1 W1)	90	DG	1.11	LB/A	PRE	A	0 b	0 d	0 b	0 a
	GLUFOSINATE (V1 W1)	1.67	EC	28	OZ/A	POST	B				
6	ATRAZINE (V4 W2)	90	DG	1.11	LB/A	PRE	A	5 ab	6 a-d	4 ab	0 a
	BENTAZON (V4 W2)	4	EC	3.6	PT/A	POST	B				
7	ATRAZINE (V1 W3)	90	DG	1.11	LB/A	PRE	A	0 b	0 d	4 ab	0 a
	S METOLACHLOR (V1 W3)	7.62	EC	2.1	PT/A	PRE	A				
	GLUFOSINATE (V1 W3)	1.67	EC	28	OZ/A	POST	B				
8	ATRAZINE (V4 W4)	90	DG	1.11	LB/A	PRE	A	8 a	14 a	8 a	0 a
	S METOLACHLOR (V4 W4)	7.62	EC	2.1	PT/A	PRE	A				
	BENTAZON (V4 W4)	4	EC	3.6	PT/A	POST	B				
9	ATRAZINE (V2 W1)	90	DG	1.11	LB/A	PRE	A	0 b	0 d	0 b	0 a
	GLUFOSINATE (V2 W1)	1.67	EC	28	OZ/A	POST	B				
10	ATRAZINE (V5 W2)	90	DG	1.11	LB/A	PRE	A	1 b	9 abc	0 b	0 a
	BENTAZON (V5 W2)	4	EC	3.6	PT/A	POST	B				
11	ATRAZINE (V2 W3)	90	DG	1.11	LB/A	PRE	A	4 ab	1 cd	3 ab	0 a
	S METOLACHLOR (V2 W3)	7.62	EC	2.1	PT/A	PRE	A				
	GLUFOSINATE (V2 W3)	1.67	EC	28	OZ/A	POST	B				
12	ATRAZINE (V5 W4)	90	DG	1.11	LB/A	PRE	A	1 b	5 bcd	1 b	0 a
	S METOLACHLOR (V5 W4)	7.62	EC	2.1	PT/A	PRE	A				
	BENTAZON (V5 W4)	4	EC	3.6	PT/A	POST	B				
LSD (P=.05)							5.6	7.8	6	0	
Standard Deviation							3.8	5.4	4.2	0	
CV							194.3	132.4	160.36	0	

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

# The Ohio State University

## INSECT MANAGEMENT AND HERBICIDE TOLERANCE WITH ATTRIBUTE SWEET CORN [II]

Trial ID: ATTRIBSWCORN-2000      Study Dir.: JIM JASINSKI AND JOEL FELIX  
Location: VANDALIA, OHIO      Investigator: Dr. Douglas J. Doohan

### GENERAL TRIAL INFORMATION

Study Director: JIM JASINSKI  
Affiliation:      EXTENSION  
Investigator:    DR. DOUGLAS J. DOOHAN      Title: ASSIST. PROF.  
Affiliation:      OARDC/OSU WOOSTER, OHIO  
Postal Code:     44691

### TRIAL LOCATION

City:            FULTON FARMS/ VANDALIA

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

Objective:      TO EVALUATE WEED AND INSECT MANAGEMENT SYSTEMS IN TRANSGENIC AND NON-TRANSGENIC (ISOLINES) SWEET CORN HYBRIDS.

### SITE AND DESIGN

Plot Width, Unit: 10      FT      Plot Length, Unit: 25      FT      Reps: 4  
Study Design: RANDOMIZED COMPLETE BLOCK

### Trial Comments

SPRAYED POUNCE AND LARVIN

# The Ohio State University

## INSECT MANAGEMENT AND HERBICIDE TOLERANCE WITH ATTRIBUTE SWEET CORN [II]

Trial ID: ATTRIBSWCORN-2000 Study Dir.: JIM JASINSKI AND JOEL FELIX

Location: VANDALIA, OHIO Investigator: Dr. Douglas J. Doohan

Crop Code								ZEAMS	ZEAMS	ZEAMS
Part Rated								CROP	CROP	CROP
Rating Data Type								CHLOROSI	STUNTED	INJURY
Rating Unit								%	%	%
Rating Date								7/14/00	7/14/00	7/14/00
Crop Stage Scale								5-6 LEAF	5-6 LEAF	5-6 LEAF
Trt-Eval Interval								7 DAHA	7 DAHA	7 DAHA
Trt	Treatment	Form	Form	Product	Product	Grow	Appl			
No.	Name	Conc	Type	Rate	Rate Unit	Stg	Code	1	2	3
1	GLUFOSINATE (V2 W1)	1.67	EC	28	OZ/A	POST	B	0 a	2.5 abc	2.5 abc
2	BENTAZON (V5 W2)	4	EC	3.6	PT/A	POST	B	0 a	0 c	0 c
3	GLUFOSINATE (V2 W3)	1.67	EC	28	OZ/A	POST	B	0 a	5 a	5 a
4	BENTAZON (V5 W4)	4	EC	3.6	PT/A	POST	B	0 a	0 c	0 c
5	GLUFOSINATE (V3 W1)	1.67	EC	28	OZ/A	POST	B	0 a	3.8 ab	3.8 ab
6	BENTAZON (V4 W2)	4	EC	3.6	PT/A	POST	B	0 a	0 c	0 c
7	GLUFOSINATE (V3 W3)	1.67	EC	28	OZ/A	POST	B	0 a	3.8 ab	3.8 ab
8	BENTAZON (V4 W4)	4	EC	3.6	PT/A	POST	B	0 a	0 c	0 c
9	GLUFOSINATE (V1 W1)	1.67	EC	28	OZ/A	POST	B	0 a	0 c	0 c
10	BENTAZON (V6 W2)	4	EC	3.6	PT/A	POST	B	0 a	3.8 ab	3.8 ab
11	GLUFOSINATE (V1 W3)	1.67	EC	28	OZ/A	POST	B	0 a	1.3 bc	1.3 bc
12	BENTAZON (V6 W4)	4	EC	3.6	PT/A	POST	B	0 a	3.8 ab	3.8 ab
LSD (P=.05)								0	2.67	2.67
Standard Deviation								0	1.85	1.85
CV								0	93.51	93.51

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

# The Ohio State University

## INSECT MANAGEMENT AND HERBICIDE TOLERANCE WITH ATTRIBUTE SWEET CORN [II]

Trial ID: ATTRIBSWCORN-2000 Study Dir.: JIM JASINSKI AND JOEL FELIX

Location: VANDALIA, OHIO Investigator: Dr. Douglas J. Doohan

Crop Code								ZEAMS	ZEAMS	ZEAMS
Part Rated								PLANT	PLANTS	CROP
Rating Data Type								STAND	INJURED	CHLOROSI
Rating Unit								2 ROWS	#/2 ROWS	PERCENT
Rating Date								7/14/00	7/14/00	7/20/00
Crop Stage Scale										
Trt-Eval Interval										14 DAHA
Trt	Treatment	Form	Form	Product	Product	Grow	Appl			
No.	Name	Conc	Type	Rate	Rate Unit	Stg	Code	4	5	6
1	GLUFOSINATE (V2 W1)	1.67	EC	28	OZ/A	POST	B	55 c	5.3 a	2.5 a
2	BENTAZON (V5 W2)	4	EC	3.6	PT/A	POST	B	64.5 ab	0 c	0.8 a
3	GLUFOSINATE (V2 W3)	1.67	EC	28	OZ/A	POST	B	57 bc	5 a	0.8 a
4	BENTAZON (V5 W4)	4	EC	3.6	PT/A	POST	B	63.3 ab	0.5 c	0.8 a
5	GLUFOSINATE (V3 W1)	1.67	EC	28	OZ/A	POST	B	63.5 ab	1.3 bc	0.8 a
6	BENTAZON (V4 W2)	4	EC	3.6	PT/A	POST	B	64.8 ab	0 c	0 a
7	GLUFOSINATE (V3 W3)	1.67	EC	28	OZ/A	POST	B	58 bc	1.3 bc	0.8 a
8	BENTAZON (V4 W4)	4	EC	3.6	PT/A	POST	B	67.3 a	0 c	2 a
9	GLUFOSINATE (V1 W1)	1.67	EC	28	OZ/A	POST	B	54 c	2.5 b	1.3 a
10	BENTAZON (V6 W2)	4	EC	3.6	PT/A	POST	B	54.8 c	0.3 c	2.5 a
11	GLUFOSINATE (V1 W3)	1.67	EC	28	OZ/A	POST	B	54.8 c	1.3 bc	1.3 a
12	BENTAZON (V6 W4)	4	EC	3.6	PT/A	POST	B	53.8 c	0 c	0.8 a
LSD (P=.05)								8.21	1.61	2.74
Standard Deviation								5.68	1.12	1.9
CV								9.6	77.72	162.65

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



# The Ohio State University

## INSECT MANAGEMENT AND HERBICIDE TOLERANCE WITH ATTRIBUTE SWEET CORN [II]

Trial ID: ATTRIBSWCORN-2000 Study Dir.: JIM JASINSKI AND JOEL FELIX

Location: VANDALIA, OHIO Investigator: Dr. Douglas J. Doohan

Crop Code								ZEAMS	ZEAMS	ZEAMS
Part Rated								CROP	CROP	CROP
Rating Data Type								STUNTED	INJURY	CHLOROSI
Rating Unit								%	%	PERCENT
Rating Date								7/20/00	7/20/00	8/4/00
Crop Stage Scale										
Trt-Eval Interval								14 DAHA	14 DAHA	28 DAHA
Trt	Treatment	Form	Form	Product	Product	Grow	Appl			
No.	Name	Conc	Type	Rate	Rate Unit	Stg	Code	7	8	9
1	GLUFOSINATE (V2 W1)	1.67	EC	28	OZ/A	POST	B	15 a	1 ab	0 b
2	BENTAZON (V5 W2)	4	EC	3.6	PT/A	POST	B	7 a	0 b	0 b
3	GLUFOSINATE (V2 W3)	1.67	EC	28	OZ/A	POST	B	7 a	0.3 ab	2 b
4	BENTAZON (V5 W4)	4	EC	3.6	PT/A	POST	B	11.3 a	0.5 ab	0 b
5	GLUFOSINATE (V3 W1)	1.67	EC	28	OZ/A	POST	B	9.5 a	1 ab	1.3 b
6	BENTAZON (V4 W2)	4	EC	3.6	PT/A	POST	B	8.3 a	1 ab	0 b
7	GLUFOSINATE (V3 W3)	1.67	EC	28	OZ/A	POST	B	13.3 a	0 b	2.5 ab
8	BENTAZON (V4 W4)	4	EC	3.6	PT/A	POST	B	6.3 a	0.8 ab	0 b
9	GLUFOSINATE (V1 W1)	1.67	EC	28	OZ/A	POST	B	5 a	1.8 a	0.8 b
10	BENTAZON (V6 W2)	4	EC	3.6	PT/A	POST	B	5 a	0 b	1.3 b
11	GLUFOSINATE (V1 W3)	1.67	EC	28	OZ/A	POST	B	5 a	1 ab	0 b
12	BENTAZON (V6 W4)	4	EC	3.6	PT/A	POST	B	6.3 a	0.5 ab	5 a
LSD (P=.05)								10.75	1.55	2.67
Standard Deviation								7.45	1.08	1.85
CV								90.5	166.56	174.18

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

# The Ohio State University

## INSECT MANAGEMENT AND HERBICIDE TOLERANCE WITH ATTRIBUTE SWEET CORN [II]

Trial ID: ATTRIBSWCORN-2000 Study Dir.: JIM JASINSKI AND JOEL FELIX

Location: VANDALIA, OHIO Investigator: Dr. Douglas J. Doohan

Crop Code								ZEAMS	ZEAMS	ZEAMS
Part Rated								CROP	CROP	EAR
Rating Data Type								STUNTED	INJURY	FILL
Rating Unit								%	%	CM
Rating Date								8/4/00	8/4/00	
Crop Stage Scale										
Trt-Eval Interval								28 DAHA	21 DAHA	
Trt	Treatment	Form	Form	Product	Product	Grow	Appl			
No.	Name	Conc	Type	Rate	Rate Unit	Stg	Code	10	11	12
1	GLUFOSINATE (V2 W1)	1.67	EC	28	OZ/A	POST	B	6.3 cd	0 a	18 abc
2	BENTAZON (V5 W2)	4	EC	3.6	PT/A	POST	B	2 d	0 a	18.8 a
3	GLUFOSINATE (V2 W3)	1.67	EC	28	OZ/A	POST	B	7.5 c	0 a	18 abc
4	BENTAZON (V5 W4)	4	EC	3.6	PT/A	POST	B	5.8 cd	0 a	18.3 abc
5	GLUFOSINATE (V3 W1)	1.67	EC	28	OZ/A	POST	B	16.3 ab	0 a	17.8 bc
6	BENTAZON (V4 W2)	4	EC	3.6	PT/A	POST	B	2.5 cd	0 a	18.5 ab
7	GLUFOSINATE (V3 W3)	1.67	EC	28	OZ/A	POST	B	20 a	0 a	18.5 ab
8	BENTAZON (V4 W4)	4	EC	3.6	PT/A	POST	B	2 d	0 a	18.5 ab
9	GLUFOSINATE (V1 W1)	1.67	EC	28	OZ/A	POST	B	5.3 cd	0 a	18.8 a
10	BENTAZON (V6 W2)	4	EC	3.6	PT/A	POST	B	13.8 b	0 a	17.5 c
11	GLUFOSINATE (V1 W3)	1.67	EC	28	OZ/A	POST	B	5 cd	0 a	18.5 ab
12	BENTAZON (V6 W4)	4	EC	3.6	PT/A	POST	B	17.5 ab	0 a	17.8 bc
LSD (P=.05)								5.4	0	0.96
Standard Deviation								3.74	0	0.66
CV								43.28	0	3.64

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

# The Ohio State University

## INSECT MANAGEMENT AND HERBICIDE TOLERANCE WITH ATTRIBUTE SWEET CORN [II]

Trial ID: ATTRIBSWCORN-2000 Study Dir.: JIM JASINSKI AND JOEL FELIX

Location: VANDALIA, OHIO Investigator: Dr. Douglas J. Doohan

Crop Code								ZEAMS	ZEAMS	ZEAMS
Part Rated								EAR	SHANK	KERNEL
Rating Data Type								LENGTH	LENGTH	ROWS
Rating Unit								CM	CM	NUMBER
Rating Date										
Crop Stage Scale										
Trt-Eval Interval										
Trt	Treatment	Form	Form	Product	Product	Grow	Appl			
No.	Name	Conc	Type	Rate	Rate Unit	Stg	Code	13	14	15
1	GLUFOSINATE (V2 W1)	1.67	EC	28	OZ/A	POST	B	18.5 bc	9.5 bcd	15.3 de
2	BENTAZON (V5 W2)	4	EC	3.6	PT/A	POST	B	18.8 bc	8.3 d	14.8 e
3	GLUFOSINATE (V2 W3)	1.67	EC	28	OZ/A	POST	B	18 c	9 cd	15.3 de
4	BENTAZON (V5 W4)	4	EC	3.6	PT/A	POST	B	19 b	8.5 d	15.3 de
5	GLUFOSINATE (V3 W1)	1.67	EC	28	OZ/A	POST	B	20.3 a	10 a-d	18.5 a
6	BENTAZON (V4 W2)	4	EC	3.6	PT/A	POST	B	18.8 bc	8.5 d	15.5 de
7	GLUFOSINATE (V3 W3)	1.67	EC	28	OZ/A	POST	B	20.5 a	11.5 a	18.3 a
8	BENTAZON (V4 W4)	4	EC	3.6	PT/A	POST	B	18.8 bc	8.8 d	15 de
9	GLUFOSINATE (V1 W1)	1.67	EC	28	OZ/A	POST	B	18.8 bc	9 cd	15.5 de
10	BENTAZON (V6 W2)	4	EC	3.6	PT/A	POST	B	18.5 bc	10 a-d	17.5 ab
11	GLUFOSINATE (V1 W3)	1.67	EC	28	OZ/A	POST	B	18.8 bc	10.8 abc	16 cd
12	BENTAZON (V6 W4)	4	EC	3.6	PT/A	POST	B	19 b	11 ab	17 bc
LSD (P=.05)								0.8	1.87	1.1
Standard Deviation								0.55	1.29	0.76
CV								2.92	13.52	4.7

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

# The Ohio State University

## INSECT MANAGEMENT AND HERBICIDE TOLERANCE WITH ATTRIBUTE SWEET CORN [II]

Trial ID: ATTRIBSWCORN-2000 Study Dir.: JIM JASINSKI AND JOEL FELIX

Location: VANDALIA, OHIO Investigator: Dr. Douglas J. Doohan

Crop Code								ZEAMS	ZEAMS	ZEAMS
Part Rated								KERNEL	20 EAR	INSECT
Rating Data Type								NUMBER	WEIGHT	NONE
Rating Unit								PER ROW	KG	%
Rating Date										
Crop Stage Scale										
Trt-Eval Interval										
Trt	Treatment	Form	Form	Product	Product	Grow	Appl			
No.	Name	Conc	Type	Rate	Rate Unit	Stg	Code	16	17	18
1	GLUFOSINATE (V2 W1)	1.67	EC	28	OZ/A	POST	B	36 bc	3.45 cd	98.8 ab
2	BENTAZON (V5 W2)	4	EC	3.6	PT/A	POST	B	35.8 c	3.25 d	57.5 de
3	GLUFOSINATE (V2 W3)	1.67	EC	28	OZ/A	POST	B	37.8 b	3.287 d	87.5 abc
4	BENTAZON (V5 W4)	4	EC	3.6	PT/A	POST	B	36 bc	3.325 d	77.5 bcd
5	GLUFOSINATE (V3 W1)	1.67	EC	28	OZ/A	POST	B	41.3 a	4.613 a	97.5 abc
6	BENTAZON (V4 W2)	4	EC	3.6	PT/A	POST	B	36 bc	3.275 d	58.8 de
7	GLUFOSINATE (V3 W3)	1.67	EC	28	OZ/A	POST	B	42 a	4.762 a	100 a
8	BENTAZON (V4 W4)	4	EC	3.6	PT/A	POST	B	36.5 bc	3.188 d	63.8 de
9	GLUFOSINATE (V1 W1)	1.67	EC	28	OZ/A	POST	B	37 bc	3.6 c	97.5 abc
10	BENTAZON (V6 W2)	4	EC	3.6	PT/A	POST	B	41 a	4.287 b	48.8 e
11	GLUFOSINATE (V1 W3)	1.67	EC	28	OZ/A	POST	B	35.8 c	3.65 c	93.8 abc
12	BENTAZON (V6 W4)	4	EC	3.6	PT/A	POST	B	41.3 a	4.125 b	76.3 cd
LSD (P=.05)								1.8	0.2715	21.92
Standard Deviation								1.25	0.188	15.18
CV								3.28	5.03	19.02

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

# The Ohio State University

## INSECT MANAGEMENT AND HERBICIDE TOLERANCE WITH ATTRIBUTE SWEET CORN [II]

Trial ID: ATTRIBSWCORN-2000 Study Dir.: JIM JASINSKI AND JOEL FELIX

Location: VANDALIA, OHIO Investigator: Dr. Douglas J. Doohan

Crop Code								ZEAMS	ZEAMS	ZEAMS
Part Rated								INSECT	INSECT	INSECT
Rating Data Type								< INCH	> INCH	ECB
Rating Unit								%	%	%
Rating Date										
Crop Stage Scale										
Trt-Eval Interval										
Trt	Treatment	Form	Form	Product	Product	Grow	Appl			
No.	Name	Conc	Type	Rate	Rate Unit	Stg	Code	19	20	21
1	GLUFOSINATE (V2 W1)	1.67	EC	28	OZ/A	POST	B	1.3 c	0 d	0 c
2	BENTAZON (V5 W2)	4	EC	3.6	PT/A	POST	B	13.8 bc	28.8 a	21 abc
3	GLUFOSINATE (V2 W3)	1.67	EC	28	OZ/A	POST	B	8.8 bc	2.5 cd	11 bc
4	BENTAZON (V5 W4)	4	EC	3.6	PT/A	POST	B	10 bc	12.5 bcd	0 c
5	GLUFOSINATE (V3 W1)	1.67	EC	28	OZ/A	POST	B	1.3 c	1.3 d	12.5 abc
6	BENTAZON (V4 W2)	4	EC	3.6	PT/A	POST	B	16.3 abc	25 ab	50.8 a
7	GLUFOSINATE (V3 W3)	1.67	EC	28	OZ/A	POST	B	0 c	0 d	0 c
8	BENTAZON (V4 W4)	4	EC	3.6	PT/A	POST	B	18.8 ab	17.5 abc	24.3 abc
9	GLUFOSINATE (V1 W1)	1.67	EC	28	OZ/A	POST	B	1.3 c	1.3 d	25 abc
10	BENTAZON (V6 W2)	4	EC	3.6	PT/A	POST	B	32.5 a	18.8 ab	29.5 abc
11	GLUFOSINATE (V1 W3)	1.67	EC	28	OZ/A	POST	B	3.8 bc	2.5 cd	25.5 abc
12	BENTAZON (V6 W4)	4	EC	3.6	PT/A	POST	B	20 ab	2.5 cd	46 ab
LSD (P=.05)								16.9	15.01	39.46
Standard Deviation								11.71	10.39	27.33
CV								110.19	110.86	133.58

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

# The Ohio State University

## INSECT MANAGEMENT AND HERBICIDE TOLERANCE WITH ATTRIBUTE SWEET CORN [II]

Trial ID: ATTRIBSWCORN-2000 Study Dir.: JIM JASINSKI AND JOEL FELIX

Location: VANDALIA, OHIO Investigator: Dr. Douglas J. Doohan

Crop Code								ZEAMS	ZEAMS
Part Rated								INSECT	INSECT
Rating Data Type								CEW	FAW
Rating Unit								%	%
Rating Date									
Crop Stage Scale									
Trt-Eval Interval									
Trt	Treatment	Form	Form	Product	Product	Grow	Appl		
No.	Name	Conc	Type	Rate	Rate Unit	Stg	Code	22	23
1	GLUFOSINATE (V2 W1)	1.67	EC	28	OZ/A	POST	B	25 ab	0 b
2	BENTAZON (V5 W2)	4	EC	3.6	PT/A	POST	B	36.5 ab	6.8 a
3	GLUFOSINATE (V2 W3)	1.67	EC	28	OZ/A	POST	B	0 b	0 b
4	BENTAZON (V5 W4)	4	EC	3.6	PT/A	POST	B	31.5 ab	0 b
5	GLUFOSINATE (V3 W1)	1.67	EC	28	OZ/A	POST	B	12.5 ab	0 b
6	BENTAZON (V4 W2)	4	EC	3.6	PT/A	POST	B	20 ab	0 b
7	GLUFOSINATE (V3 W3)	1.67	EC	28	OZ/A	POST	B	0 b	0 b
8	BENTAZON (V4 W4)	4	EC	3.6	PT/A	POST	B	40 ab	0 b
9	GLUFOSINATE (V1 W1)	1.67	EC	28	OZ/A	POST	B	25 ab	0 b
10	BENTAZON (V6 W2)	4	EC	3.6	PT/A	POST	B	51.3 ab	0 b
11	GLUFOSINATE (V1 W3)	1.67	EC	28	OZ/A	POST	B	25 ab	0 b
12	BENTAZON (V6 W4)	4	EC	3.6	PT/A	POST	B	54 a	0 b
LSD (P=.05)								51.84	5.63
Standard Deviation								35.9	3.9
CV								134.32	692.82

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



# The Ohio State University

## WEED CONTROL IN STRAWBERRIES WITH SULFENTRAZONE

Trial ID: STRAWWOOST-00

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

Location: WOOSTER,OHIO

Investigator: Dr. Douglas J. Doohan

### APPLICATION DESCRIPTION

	A
Application Date:	04/18/2000
Time of Day:	2-3PM
Application Method:	SPRAY
Application Timing:	PREEM
Applic. Placement:	BROADCAST
Air Temp., Unit:	59 F
% Relative Humidity:	70
Wind Velocity, Unit:	2 MPH
Dew Presence (Y/N):	N
Water Hardness:	SOFT
Soil Temp., Unit:	50
Soil Moisture:	MST
% Cloud Cover:	80

### CROP STAGE AT EACH APPLICATION

	A
	STRAWBERR
Stage Scale:	ESTABLISH
Height, Unit:	10 IN

### WEED STAGE AT EACH APPLICATION

	A
	NONE
Stage Scale:	NONE
Density, Unit:	0 0

### APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	35PSI
Nozzle Type:	FFAN
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
Carrier:	WATER
Spray Volume, Unit:	20 GPA
Propellant:	CO2
Tank Mix (Y/N):	N



# The Ohio State University

## WEED CONTROL IN STRAWBERRIES WITH SULFENTRAZONE

Trial ID: STRAWWOOST-00

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

Location: WOOSTER,OHIO

Investigator: Dr. Douglas J. Doohan

### Trial Comments

USE THE AUTHORITY 75DF (0.75 LB AI/1.00 LB, PRODUCT) FORMULATION OF SULFENTRAZONE  
(EPA REG. NO. 279-3148 CAS#122836-35-5)

04/18/2000

PLOTS SPRAYED USING CO2 BACKPACK SPRAYER.THIS IS AN ESTABLISHED EARLIGLO STRAWBERRY BED.THE STRAW WAS RECENTLY REMOVED OVER THE PLANTS AND PLACED IN THE ROW MIDDLES.

04/27/2000

STRAW RECENTLY REMOVED FROM ROWS,NO WEED SEEDLINGS UP AT ALL  
A FEW SCATTERED BLOOM-RECENTLY IRRIGATED

ICE WAS THAWING ON PLANTS.INJURY SYMPTOMS VERY NOTICEABLE BETWEEN TREATMENTS AND CONSISTENT BETWEEN REPS.

05/05/2000

PLANTS GRADUALLY GROWING OUT OF BURN,HEIGHT STUNT STILL EVIDENT AND CONSISTENT

05/12/2000

S OME CUPPING ON OLD GROWTH,CONSISTENT BETWEEN REPS

THERE WERE VIRTUALLY NO WEEDS IN THE EXPERIMENTAL PLOT AREA; EXCEPT FOR A FEW INCONSISTANT DANDELIONS; HENCE NO WEED RATINGS.WE DECIDED TO RATE THE STRAWBERRY PLANTS VISUALLY FOR INJURY,SPECIFICALLY INJURY TYPE. NO YIELDS WERE TAKEN.

# The Ohio State University

## WEED CONTROL IN STRAWBERRIES WITH SULFENTRAZONE

Trial ID: STRAWWOOST-00

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

Location: WOOSTER,OHIO

Investigator: Dr. Douglas J. Doohan

Crop Code				FRAAN	FRAAN	FRAAN				
Part Rated				C	C	C				
Rating Data Type				LEAFBURN	STUNTED	LEAFBURN				
Rating Unit				PERCENT	PERCENT	PERCENT				
Rating Date				4/27/00	4/27/00	5/5/00				
# Subsamples, Dec.				0	0	0				
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3
1	UNTREATED							0 d	0 c	0 d
2	AUTHORITY (1/2 X)	75	DF	115	G/A	PRE		13 c	15 b	8 c
3	AUTHORITY (2/3 X)	75	DF	151	G/A	PRE		18 b	20 ab	13 b
4	AUTHORITY (1 X)	75	DF	227	G/A	PRE		25 a	28 a	20 a
5	DACTHAL	75	WP	12	LB/A	PRE		0 d	0 c	0 d
LSD (P=.05)								3.7	8.4	3.7
Standard Deviation								2.4	5.5	2.4
CV								21.96	43.82	30.19

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

# The Ohio State University

## WEED CONTROL IN STRAWBERRIES WITH SULFENTRAZONE

Trial ID: STRAWWOOST-00                      Study Dir.: DR.DOUGLAS J.  
 Location: WOOSTER, OHIO                      Investigator: Dr. Douglas J

Crop Code								FRAAN	FRAAN	FRAAN
Part Rated								C	C	C
Rating Data Type								STUNTED	LEAFBURN	STUNTED
Rating Unit								PERCENT	PERCENT	PERCENT
Rating Date								5/5/00	5/12/00	5/12/00
# Subsamples, Dec.								0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	4	5	6
1	UNTREATED							0 c	0 a	0 a
2	AUTHORITY (1/2 X)	75	DF	115	G/A	PRE		15 b	0 a	0 a
3	AUTHORITY (2/3 X)	75	DF	151	G/A	PRE		20 ab	0 a	0 a
4	AUTHORITY (1 X)	75	DF	227	G/A	PRE		28 a	1 a	1 a
5	DACTHAL	75	WP	12	LB/A	PRE		0 c	0 a	0 a
LSD (P=.05)								8.4	1.7	1.7
Standard Deviation								5.5	1.1	1.1
CV								43.82	447.21	447.21

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

# The Ohio State University

## FALL WEED CONTROL IN APPLES WITH PREEMERGENCE HERBICIDES

Trial ID: APPLEWOOST-00                      Study Dir.: DR. D. 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 ELATIOR L.
2	OXAST	WOODSORREL, COMMON YELLOW	OXALIS STRICTA L.
3	PANDI	PANICUM, FALL	PANICUM DICHOTOMIFLORUM (L.) MICHX.
4	POLPY	SMARTWEED, PENNSYLVANIA	POLYGONUM PENNSYLVANICUM L.
5	DIGSA	CRABGRASS, LARGE	DIGITARIA SANGUINALIS (L.) SCOP.
6	SENVU	GROUNDSEL, COMMON	SENECIO VULGARIS L.
7	TAROF	DANDELION, COMMON	TARAXACUM OFFICINALE WEBER
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

# The Ohio State University

## FALL WEED CONTROL IN APPLES WITH PREEMERGENCE HERBICIDES

Trial ID: APPLEWOOST-00

Study Dir.: DR. D. J. DOOHAN

Location: WOOSTER, OHIO

Investigator: Dr. Douglas J. Doohan

### 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

### 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	Treatment Name
1	03/23/2000	DORMANT OIL
2	03/30/2000	DITHANE, MANCOZEB, NOVA
3	04/14/2000	DITHANE, MANCOZEB, SEVIN
4	04/19/2000	DITHANE, SEVIN
5	04/29/2000	DITHANE, MANCOZEB, NOVA
6	05/11/2000	NOVA, IMIDAN
7	05/16/2000	NOVA, IMIDAN, DITHANE
8	05/22/2000	NOVA, PROVADOL, ZIRAM
9	06/01/2000	NOVA, ZIRAM, PROVADO
10	06/17/2000	NOVA, ZIRAM, IMIDAN, THIODAN
11	07/01/2000	ZIRAM, PROVADO, PYRAMITE
12	07/11/2000	ZIRAM, SEVIN, PYRAMITE
13	07/17/2000	ZIRAM, NOVA, THIODAN, SEVIN
14	08/04/2000	TOPSIN, SEVIN
15	08/11/2000	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:	10/15/1999
Time of Day:	2-3PM
Application Method:	BDCST
Application Timing:	FALLPREEM
Applic. Placement:	BROSIOI
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

# The Ohio State University

## FALL WEED CONTROL IN APPLES WITH PREEMERGENCE HERBICIDES

Trial ID: APPLEWOOST-00

Study Dir.: DR. D. J. DOOHAN

Location: WOOSTER, OHIO

Investigator: Dr. Douglas J. Doohan

### CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	MABSD

### WEED STAGE AT EACH APPLICATION

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

### 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: APPLEWOOST-00

Study Dir.: DR. D. 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 .WEEDS SUCH AS SMARTWEED ,PIGWEEED,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 TREATMENTN 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: APPLEWOOST-00

Study Dir.: DR. D. J. DOOHAN

Location: WOOSTER, OHIO

Investigator: Dr. Douglas J. Doohan

Weed Code							F.PANIC.	DANDEL.	C.RAGWD.	
Crop Code							APPLE	APPLE	APPLE	
Part Rated							P	P	P	
Rating Data Type							CONTROL	CONTROL	CONTROL	
Rating Unit							%	%	%	
Rating Date							5/30/00	5/30/00	5/30/00	
# Subsamples, Dec.							0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3
1	UNTREATED CONTROL							0 b	0 b	0 c
2	VALOR 50DF	50	DF	0.75	LB/A	PRE	A	95 a	98 a	91 b
3	MILESTONE 80 DF	80	DF	0.625	LB/A	PRE	A	98 a	95 a	98 ab
4	SOLICAM 80DF	80	DF	4.88	LB/A	PRE	A	95 a	95 a	99 a
5	PRINCEP 4 L [SIMAZINE]	4	L	7.3	PT/A	PRE	A	97 a	95 a	98 a
6	SINBAR 80WP [TERBACIL]	80	WP	2	LB/A	PRE	A	96 a	97 a	99 a
7	KARMEX 80WP [DIURON]	80	WP	4	LB/A	PRE	A	98 a	99 a	98 a
LSD (P=.05)								4.7	4.6	6.9
Standard Deviation								4	3.9	5.9
CV								4.82	4.76	7.04

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



# The Ohio State University

## FALL WEED CONTROL IN APPLES WITH PREEMERGENCE HERBICIDES

Trial ID: APPLEWOOST-00

Study Dir.: DR. D. J. DOOHAN

Location: WOOSTER, OHIO

Investigator: Dr. Douglas J. Doohan

Weed Code							SMARTWD.	OXALIS	GROUNDSL	
Crop Code							APPLE	APPLE	APPLE	
Part Rated							P	P	P	
Rating Data Type							CONTROL	CONTROL	CONTROL	
Rating Unit							%	%	%	
Rating Date							5/30/00	5/30/00	5/30/00	
# Subsamples, Dec.							0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	4	5	6
1	UNTREATED CONTROL							0 c	0 c	0 c
2	VALOR 50DF	50	DF	0.75	LB/A	PRE	A	94 ab	98 ab	99 a
3	MILESTONE 80 DF	80	DF	0.625	LB/A	PRE	A	98 a	97 ab	99 a
4	SOLICAM 80DF	80	DF	4.88	LB/A	PRE	A	91 b	97 ab	99 a
5	PRINCEP 4 L [SIMAZINE]	4	L	7.3	PT/A	PRE	A	96 a	95 b	88 b
6	SINBAR 80WP [TERBACIL]	80	WP	2	LB/A	PRE	A	98 a	97 ab	99 a
7	KARMEX 80WP [DIURON]	80	WP	4	LB/A	PRE	A	95 ab	98 a	97 a
LSD (P=.05)							4.9	3	4.9	
Standard Deviation							4.2	2.5	4.2	
CV							5.13	3.03	5.04	

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

# The Ohio State University

## FALL WEED CONTROL IN APPLES WITH PREEMERGENCE HERBICIDES

Trial ID: APPLEWOOST-00

Study Dir.: DR. D. J. DOOHAN

Location: WOOSTER, OHIO

Investigator: Dr. Douglas J. Doohan

							F.PANIC.	DANDELN.	C.RAGWD.	
							APPLE	APPLE	APPLE	
							P	P	P	
							CONTROL	CONTROL	CONTROL	
							%	%	%	
							7/10/00	7/10/00	7/10/00	
							0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Unit	Grow Stg	Appl Code	7	8	9
1	UNTREATED CONTROL							0 c	0 e	0 b
2	VALOR 50DF	50	DF	0.75	LB/A	PRE	A	30 b	72 c	96 a
3	MILESTONE 80 DF	80	DF	0.625	LB/A	PRE	A	75 a	87 ab	94 a
4	SOLICAM 80DF	80	DF	4.88	LB/A	PRE	A	86 a	81 b	94 a
5	PRINCEP 4 L [SIMAZINE]	4	L	7.3	PT/A	PRE	A	33 b	55 d	99 a
6	SINBAR 80WP [TERBACIL]	80	WP	2	LB/A	PRE	A	84 a	92 a	99 a
7	KARMEX 80WP [DIURON]	80	WP	4	LB/A	PRE	A	87 a	91 a	99 a
LSD (P=.05)								13.6	7.2	8.5
Standard Deviation								11.6	6.1	7.2
CV								20.49	8.99	8.66

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

# The Ohio State University

## FALL WEED CONTROL IN APPLES WITH PREEMERGENCE HERBICIDES

Trial ID: APPLEWOOST-00

Study Dir.: DR. D. J. DOOHAN

Location: WOOSTER, OHIO

Investigator: Dr. Douglas J. Doohan

							SMARTWD.	OXALIS	GROUNDSL	
							APPLE	APPLE	APPLE	
							P	P	P	
							CONTROL	CONTROL	CONTROL	
							%	%	%	
							7/10/00	7/10/00	7/10/00	
							0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code			
								10	11	12
1	UNTREATED CONTROL							0 c	0 c	0 c
2	VALOR 50DF	50	DF	0.75	LB/A	PRE	A	87 a	96 a	88 a
3	MILESTONE 80 DF	80	DF	0.625	LB/A	PRE	A	88 a	99 a	89 a
4	SOLICAM 80DF	80	DF	4.88	LB/A	PRE	A	53 b	80 b	84 a
5	PRINCEP 4 L [SIMAZINE]	4	L	7.3	PT/A	PRE	A	94 a	99 a	63 b
6	SINBAR 80WP [TERBACIL]	80	WP	2	LB/A	PRE	A	95 a	99 a	91 a
7	KARMEX 80WP [DIURON]	80	WP	4	LB/A	PRE	A	87 a	99 a	88 a
LSD (P=.05)								17.4	10.2	8.1
Standard Deviation								14.7	8.6	6.9
CV								20.48	10.55	9.54

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

# The Ohio State University

## FALL WEED CONTROL IN APPLES WITH PREEMERGENCE HERBICIDES

Trial ID: APPLEWOOST-00

Study Dir.: DR. D. J. DOOHAN

Location: WOOSTER, OHIO

Investigator: Dr. Douglas J. Doohan

							F.PANIC. APPLE	DANDELN. APPLE	C.RAGWD. APPLE	
Weed Code							P	P	P	
Crop Code							CONTROL	CONTROL	CONTROL	
Part Rated							%	%	%	
Rating Data Type							8/8/00	8/8/00	8/8/00	
Rating Unit							0	0	0	
Rating Date										
# Subsamples, Dec.										
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	13	14	15
1	UNTREATED CONTROL							10 b	33 b	17 b
2	VALOR 50DF	50 DF		0.75 LB/A		PRE A		22 b	90 a	96 a
3	MILESTONE 80 DF	80 DF		0.625 LB/A		PRE A		70 a	82 a	91 a
4	SOLICAM 80DF	80 DF		4.88 LB/A		PRE A		82 a	97 a	94 a
5	PRINCEP 4 L [SIMAZINE]	4 L		7.3 PT/A		PRE A		35 b	89 a	99 a
6	SINBAR 80WP [TERBACIL]	80 WP		2 LB/A		PRE A		88 a	94 a	99 a
7	KARMEX 80WP [DIURON]	80 WP		4 LB/A		PRE A		89 a	97 a	99 a
LSD (P=.05)							26.1	28	22.2	
Standard Deviation							22.1	23.7	18.8	
CV							39.24	28.56	22.18	

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

# The Ohio State University

## FALL WEED CONTROL IN APPLES WITH PREEMERGENCE HERBICIDES

Trial ID: APPLEWOOST-00

Study Dir.: DR. D. J. DOOHAN

Location: WOOSTER, OHIO

Investigator: Dr. Douglas J. Doohan

Weed Code							SMARTWD.	OXALIS	GROUNDSL	
Crop Code							APPLE	APPLE	APPLE	
Part Rated							P	P	P	
Rating Data Type							CONTROL	CONTROL	CONTROL	
Rating Unit							%	%	%	
Rating Date							8/8/00	8/8/00	8/8/00	
# Subsamples, Dec.							0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Unit	Grow Stg	Appl Code	16	17	18
1	UNTREATED CONTROL							17 c	8 b	33 b
2	VALOR 50DF	50	DF	0.75	LB/A	PRE	A	96 a	99 a	92 a
3	MILESTONE 80 DF	80	DF	0.625	LB/A	PRE	A	93 a	99 a	88 a
4	SOLICAM 80DF	80	DF	4.88	LB/A	PRE	A	48 b	84 a	81 a
5	PRINCEP 4 L [SIMAZINE]	4	L	7.3	PT/A	PRE	A	99 a	99 a	84 a
6	SINBAR 80WP [TERBACIL]	80	WP	2	LB/A	PRE	A	98 a	99 a	92 a
7	KARMEX 80WP [DIURON]	80	WP	4	LB/A	PRE	A	90 a	99 a	90 a
LSD (P=.05)								21.2	19.8	24.6
Standard Deviation								17.9	16.8	20.9
CV								23.3	20.06	26.19

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

# The Ohio State University

## FALL WEED CONTROL IN APPLES WITH PREEMERGENCE HERBICIDES

Trial ID: APPLEWOOST-00

Study Dir.: DR. D. J. DOOHAN

Location: WOOSTER, OHIO

Investigator: Dr. Douglas J. Doohan

							B.PLANTN	CRABGS.	F.PANIC.	
							APPLE	APPLE	APPLE	
							P	P	P	
							CONTROL	CONTROL	CONTROL	
							%	%	%	
							8/8/00	8/8/00	9/27/00	
							0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	19	20	21
1	UNTREATED CONTROL							33 b	51 b	0 d
2	VALOR 50DF	50	DF	0.75	LB/A	PRE	A	96 a	96 a	37 bc
3	MILESTONE 80 DF	80	DF	0.625	LB/A	PRE	A	99 a	94 a	45 b
4	SOLICAM 80DF	80	DF	4.88	LB/A	PRE	A	99 a	99 a	68 a
5	PRINCEP 4 L [SIMAZINE]	4	L	7.3	PT/A	PRE	A	99 a	98 a	25 c
6	SINBAR 80WP [TERBACIL]	80	WP	2	LB/A	PRE	A	99 a	97 a	69 a
7	KARMEX 80WP [DIURON]	80	WP	4	LB/A	PRE	A	97 a	99 a	74 a
LSD (P=.05)								23.8	24.6	17.5
Standard Deviation								20.2	20.8	14.8
CV								22.74	23.03	32.57

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

# The Ohio State University

## FALL WEED CONTROL IN APPLES WITH PREEMERGENCE HERBICIDES

Trial ID: APPLEWOOST-00

Study Dir.: DR. D. J. DOOHAN

Location: WOOSTER, OHIO

Investigator: Dr. Douglas J. Doohan

							DANDELN.	C.RAGWD.	SMARTWD.	
							APPLE	APPLE	APPLE	
							P	P	P	
							CONTROL	CONTROL	CONTROL	
							%	%	%	
							9/27/00	9/27/00	9/27/00	
							0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	22	23	24
1	UNTREATED CONTROL							0 c	0 c	0 c
2	VALOR 50DF	50 DF		0.75 LB/A		PRE	A	73 a	72 b	62 a
3	MILESTONE 80 DF	80 DF		0.625 LB/A		PRE	A	53 b	94 a	70 a
4	SOLICAM 80DF	80 DF		4.88 LB/A		PRE	A	48 b	94 a	35 b
5	PRINCEP 4 L [SIMAZINE]	4 L		7.3 PT/A		PRE	A	72 a	93 ab	76 a
6	SINBAR 80WP [TERBACIL]	80 WP		2 LB/A		PRE	A	83 a	95 a	81 a
7	KARMEX 80WP [DIURON]	80 WP		4 LB/A		PRE	A	84 a	88 ab	67 a
LSD (P=.05)							19.1	21.9	23.2	
Standard Deviation							16.2	18.6	19.7	
CV							27.46	24.26	35.32	

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

# The Ohio State University

## FALL WEED CONTROL IN APPLES WITH PREEMERGENCE HERBICIDES

Trial ID: APPLEWOOST-00

Study Dir.: DR. D. J. DOOHAN

Location: WOOSTER, OHIO

Investigator: Dr. Douglas J. Doohan

Weed Code								OXALIS	GROUNSL.
Crop Code								APPLE	APPLE
Part Rated								P	P
Rating Data Type								CONTROL	CONTROL
Rating Unit								%	%
Rating Date								9/27/00	9/27/00
# Subsamples, Dec.								0	0
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	25	26
1	UNTREATED CONTROL							0 c	0 b
2	VALOR 50DF	50 DF		0.75 LB/A		PRE A		76 a	99 a
3	MILESTONE 80 DF	80 DF		0.625 LB/A		PRE A		72 ab	99 a
4	SOLICAM 80DF	80 DF		4.88 LB/A		PRE A		54 b	99 a
5	PRINCEP 4 L [SIMAZINE]	4 L		7.3 PT/A		PRE A		76 a	99 a
6	SINBAR 80WP [TERBACIL]	80 WP		2 LB/A		PRE A		87 a	99 a
7	KARMEX 80WP [DIURON]	80 WP		4 LB/A		PRE A		88 a	99 a
LSD (P=.05)								19.9	0
Standard Deviation								16.8	0
CV								26.06	0

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



# The Ohio State University

## TIMING OF CULTIVATION AND DUAL MAGNUM ON DIRECT-SEEDED CABBAGE

Trial ID: CABBGFREMT-00                      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                      Title: ASST.PROFESSOR  
 Affiliation: OARDC  
 Postal Code: 44691

### TRIAL LOCATION

City: FREMONT                      Trial Status: FINAL  
 State/Prov.: OHIO                      Trial Reliability: RELIABLE  
 Postal Code: 43240                      Initiation Date: May-05-00  
 Country: USA                      Planned Completion Date: Sep-15-00  
 E-Longitude of LL Corner °: 41.000000  
 Altitude of LL Corner: 636.00      Unit: FT ASL  
 Directions: CORNER OF CR 43 AND SR 53, SOUTHWEST OF FREMONT, OHIO (SANDUSKY COUNTY)

### COOPERATOR/LANDOWNER

Cooperator: KEN SCAIFE                      Country: USA  
 Org: OARDC-VEGETABLE CROPS BRANCH                      Phone No: 419-332-5142  
 Address 1: 1165 CR 43                      Fax No: 419-332-5643  
 City: FREMONT  
 State/Prov: OHIO  
 Postal Code: 43420

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

Objective: TO EVALUATE DUAL MAGNUM IN VEGETABLES TO SUPPORT 24C LABELS

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	POROL	PURSLANE, COMMON	PORTULACA OLERACEA L.

Crop 1: BRSOL CABBAGE                      Variety: FORTRESS  
 Planting Date: May-09-00                      Planting Method: CONVENTIONAL  
 Rate: 4 SEEDS/FT                      Depth: 0.50 IN                      Perennial Age: 0      0  
 Row Spacing: 30 INCH                      Seed Bed: CONVENTIONAL  
 Soil Temperature: 62      F      Soil Moisture: MOIST                      Emergence Date: May-12-00

### SITE AND DESIGN

Plot Width, Unit: 6      FT      Plot Length, Unit: 40      FT      Reps: 2  
 Site Type: LEVEL FIELD  
 Tillage Type: CONVENTIONAL                      Study Design: SPLIT-PLOT

# The Ohio State University

## TIMING OF CULTIVATION AND DUAL MAGNUM ON DIRECT-SEEDED CABBAGE

Trial ID: CABBGFREM-00  
Location: FREMONT, OHIO

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

### MAINTENANCE

Field Prep./Maintenance: CULTIVATION TREATMENTS LISTED UNDER "COMMENTS"

No.	Date	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1	05/05/2000	BROADCAST FERTILIZER					70#N, 250#K, 60#P/A
2	05/09/2000	SEEDED 4 SEEDS/FT.W/JD71					
3	06/09/2000	SPRAY TMTS. 2,4,6,8,10DUAL	8E			1.7PT./A	

### SOIL DESCRIPTION

% OM: 3                      Texture: FINE SANDY LOAM  
pH: 5.8                      Soil Name: COLWOOD  
CEC: 7.67                    Fert. Level: MODERATE

### APPLICATION DESCRIPTION

	A
Application Date:	06/09/2000
Time of Day:	9-10 AM
Application Method:	CONVENT.
Application Timing:	PRE TP
Applic. Placement:	BDCST.
Air Temp., Unit:	65 F
% Relative Humidity:	59
Wind Velocity, Unit:	4 MPH
Dew Presence (Y/N):	N
Water Hardness:	SOFT
Soil Temp., Unit:	55 F
Soil Moisture:	MOIST
% Cloud Cover:	30

### CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	BRSOL CABBAGE
Stage Scale:	2-4 LEAF
Height, Unit:	10 IN

### WEED STAGE AT EACH APPLICATION

	A
Weed 2 Code, Stage:	POROL POROL, 2-4
Stage Scale:	0.5-1.0 IN
Density, Unit:	MED. HIGH

# The Ohio State University

## TIMING OF CULTIVATION AND DUAL MAGNUM ON DIRECT-SEEDED CABBAGE

Trial ID: CABBGFREM-00

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

Location: FREMONT, OHIO

Investigator: Dr. Douglas J. Doohan

### APPLICATION EQUIPMENT

	A
Appl. Equipment:	TRACTOR
Operating Pressure:	30 PSI
Nozzle Type:	FFAN
Nozzle Size:	8002VS
Nozzle Spacing, Unit:	15 IN
Nozzles/Row:	4
Band Width, Unit:	5.5 FT
Boom Length, Unit:	5 FT
Boom Height, Unit:	18 IN
Ground Speed, Unit:	3 MPH
Incorporation Equip.:	0
Hours to Incorp.:	0
Incorp. Depth, Unit:	0
Carrier:	WATER
Spray Volume, Unit:	27 GPA
Propellant:	PTO
Tank Mix (Y/N):	N

# The Ohio State University

## TIMING OF CULTIVATION AND DUAL MAGNUM ON DIRECT-SEEDED CABBAGE

Trial ID: CABBGFREM-00  
Location: FREMONT, OHIO

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

### Trial Comments

UNDER TREATMENT NAME,TEXT IN THE FIRST ROW REFERS TO WEED STAGE OF GROWTH WHEN CULTIVATION WAS PERFORMED.TEXT IN SECOND ROW REFERS TO USE OF DUAL MAGNUM OR OMISSION OF THE HERBICIDES.

UNDER "PART RATED" IN THE PLOT DATA SECTION UNDER " BIOMASS" , "W " MEANS WITHIN THE ROW , AND "B" STANDS FOR BETWEEN THE ROW.BIOMASS CONSISTED OF TAKING A FIXED NUMBER OF SAMPLES PER ROW CUTTING THE PURSLANE OFF AT GROUND LEVEL WITH SHEARS, AND WEIGHING THE WEEDS IN THAT SPECIFIC SAMPLE AREA

IN COLUMNS 5-10, UNDER "PART RATED" C= CROP

THE FOLLOWING ARE NOTES FROM THE VEGETABLE CROPS BRANCH MANAGER:

MAY 5 -BROADCAST FERTILIZER: 70# N/A : 250 # K2O/A ; 60# P2O5/A  
MAY 9 -SEEDED 4 SEEDS/FT.; CULTIVAR IS " FORTRESS" ,SEEDED WITH JD 71 PLANTER FITTED WITH KINCAID CONE-TYPE SEED DISTRIBUTING UNITS.

MAY 18 -CULTIVATE TREATMENTS 1,2. USED CUT-AWAY DISKS TO LEAVE A 3 INCH UNCULTIVATED AREA DOWN THE ROW. NO WEEDS EMERGED. CABBAGE WAS STILL EMERGING OR SMALL COTYLEDON LEAF

MAY 26 CULTIVATE TREATMENTS 1, 2. NO WEEDS EMERGED, DISKS AND SHIELDS ON CULTIVATOR, 4 TO 5 INCH WIDE UNCULTIVATED AREA DOWN THE ROW. CABBAGE WAS COTYLEDON LEAF TO 1 TRUE LEAF.

JUNE 3 CULTIVATED TREATMENTS 1,2,3,4. TREATMENTS 3 AND 4 HAD COTYLEDON STAGE PURSLANE.

JUNE 9 -SPRAYED TMTS.2,4,6,8,10, WITH 1.7 PTS/A DUAL 8E.PURSLANE WAS .5-1".CABBAGE WAS 2-4 TRUE LEAVES.

JUNE 11-CULTIVATE TMTS.1-8.CUTAWAY DISCS & SHIELDS NOT USED-CABBAGE TOO LARGE.PURSLANE WAS IN TMTS.1&2(COTYLEDON LEAF) AND 1-2" HIGH IN TMTS.5-8.NOTE:RAINFALL PREVENTED CULTIVATION WHICH SHOULD HVE BEEN DONE TO TMTS.1-4 ON JUNE 6-7.

JUNE 15 -CULTIVATE TMTS. 9,10-PURSLANE WAS 4" TALL.STARTED THINNING CABBAGE TO 18" SPACING.DID PLOTS 101-120&201-212.RAIN CHASED US OUT.

JUNE 19 -FINISHED THINNING

BETWEEN JUNE 27 AND 30, REPS 1 AND 2 WERE COMPLETELY WEEDDED BY HOEING AND HAND IF NECESSARY. REPS 3 AND 4 WERE ABANDONED. YIELD DATA WERE COLLECTED FROM REPS 1 AND 2.

# The Ohio State University

## TIMING OF CULTIVATION AND DUAL MAGNUM ON DIRECT-SEEDED CABBAGE

Trial ID: CABBGFREMT-00  
 Location: FREMONT, OHIO

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

							POROL	POROL	POROL		
							BRSOL	BRSOL	BRSOL		
							W	W	B		
							BIOMASS	BIOMASS	BIOMASS		
							NO.WEEDS	WT./GMS.	NO.WEEDS		
							6/23/00	6/23/00	6/23/00		
							0	1	0		
Trt	Treatment	Form	Form	Product	Product	Grow	Appl				
No.	Name	Conc	Type	Rate	Rate	Unit	Stg	Code			
							1	2	3		
1	CULTIVATION PRE							A	44 ab	11.7 a	6 cde
	DUAL MAGNUM	914	EC	0	PT/A			B			
2	CULTIVATION PRE							A	23 b	5.5 a	1 e
	DUAL MAGNUM	914	EC	1.33	PT/A	PRE		B			
3	CULTIVATION COTYLEDON							A	104 a	90.3 a	13 ab
	DUAL MAGNUM	914	EC	0	PT/A			B			
4	CULTIVATION COTYLEDON							A	56 ab	23.2 a	17 a
	DUAL MAGNUM	914	EC	1.33	PT/A	PRE		B			
5	CULTIVATION -1 INCH							A	59 ab	49 a	13 ab
	DUAL MAGNUM	914	EC	0	PT/A			B			
6	CULTIVATION -1 INCH							A	70 ab	36.8 a	11 a-d
	DUAL MAGNUM	914	EC	1.33	PT/A	PRE		B			
7	CULTIVATION -2 INCHES							A	94 a	51.7 a	5 cde
	DUAL MAGNUM	914	EC	0	PT/A			B			
8	CULTIVATION -2 INCHES							A	66 ab	28 a	4 de
	DUAL MAGNUM	914	EC	1.33	PT/A	PRE		B			
9	CULTIVATION -4 INCHES							A	65 ab	74.2 a	11 abc
	DUAL MAGNUM	914	EC	0	PT/A			B			
10	CULTIVATION -4 INCHES							A	67 ab	29.2 a	6 b-e
	DUAL MAGNUM	914	EC	1.33	PT/A	PRE		B			
LSD (P=.05)							68.3	89	7.3		
Standard Deviation							26.6	34.62	2.9		
CV							41.19	86.66	33.39		

Means followed by same letter do not significantly differ (P=.05, LSD)  
 Mean separations are based on the complete error term.

# The Ohio State University

## TIMING OF CULTIVATION AND DUAL MAGNUM ON DIRECT-SEEDED CABBAGE

Trial ID: CABBGFREM-00 Study Dir.: DR.DOUGLAS J.DOOR  
 Location: FREMONT, OHIO Investigator: Dr. Douglas J. Do

Weed Code								POROL		
Crop Code								BRSOL	BRSOL	BRSOL
Part Rated								B	C	C
Rating Data Type								BIOMASS	NO.HEADS	WT./KG.
Rating Unit								WT./GMS.	PER PLOT	PER PLOT
Rating Date								6/23/00	9/1/00	9/1/00
Crop Stage									HARVEST	HARVEST
# Subsamples, Dec.								1	0	1
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Unit	Grow Stg	Appl Code	4	5	6
1	CULTIVATION PRE						A	0.4 b	37 ab	109.9 a
	DUAL MAGNUM	914	EC	0	PT/A		B			
2	CULTIVATION PRE						A	0 b	37 ab	110.4 a
	DUAL MAGNUM	914	EC	1.33	PT/A	PRE	B			
3	CULTIVATION COTYLEDON						A	7.8 a	39 a	107.6 ab
	DUAL MAGNUM	914	EC	0	PT/A		B			
4	CULTIVATION COTYLEDON						A	2.2 b	34 ab	86.3 bc
	DUAL MAGNUM	914	EC	1.33	PT/A	PRE	B			
5	CULTIVATION -1 INCH						A	8.9 a	32 ab	81.5 c
	DUAL MAGNUM	914	EC	0	PT/A		B			
6	CULTIVATION -1 INCH						A	2.1 b	36 ab	111.7 a
	DUAL MAGNUM	914	EC	1.33	PT/A	PRE	B			
7	CULTIVATION -2 INCHES						A	6.3 a	30 b	78.1 c
	DUAL MAGNUM	914	EC	0	PT/A		B			
8	CULTIVATION -2 INCHES						A	1.3 b	36 ab	107.3 ab
	DUAL MAGNUM	914	EC	1.33	PT/A	PRE	B			
9	CULTIVATION -4 INCHES						A	2.7 b	36 ab	70.3 c
	DUAL MAGNUM	914	EC	0	PT/A		B			
10	CULTIVATION -4 INCHES						A	2.7 b	36 ab	90.9 abc
	DUAL MAGNUM	914	EC	1.33	PT/A	PRE	B			
LSD (P=.05)								3.58	8.9	23.37
Standard Deviation								1.39	3.4	9.09
CV								40.46	9.83	9.53

Means followed by same letter do not significantly differ (P=.05, LSD)  
 Mean separations are based on the complete error term.

# The Ohio State University

## TIMING OF CULTIVATION AND DUAL MAGNUM ON DIRECT-SEEDED CABBAGE

Trial ID: CABBGFREM-00      Study Dir.: DR.DOUGLAS J.DOORNB  
 Location: FREMONT, OHIO      Investigator: Dr. Douglas J. Doornik

Weed Code								BRSOL	BRSOL	BRSOL
Crop Code								C	C	C
Part Rated								ROT CULL	ROT CULL	SML CULL
Rating Data Type								NO./PLOT	WT./KG.	NO./PLOT
Rating Unit								9/1/00	9/1/00	9/1/00
Rating Date								HARVEST	HARVEST	HARVEST
Crop Stage								0	1	0
# Subsamples, Dec.										
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	7	8	9
1	CULTIVATION PRE						A	0 a	0 a	3 b
	DUAL MAGNUM	914	EC	0	PT/A		B			
2	CULTIVATION PRE						A	0 a	0 a	2 b
	DUAL MAGNUM	914	EC	1.33	PT/A	PRE	B			
3	CULTIVATION COTYLEDON						A	1 a	2 a	3 b
	DUAL MAGNUM	914	EC	0	PT/A		B			
4	CULTIVATION COTYLEDON						A	2 a	4.3 a	4 b
	DUAL MAGNUM	914	EC	1.33	PT/A	PRE	B			
5	CULTIVATION -1 INCH						A	1 a	3.5 a	3 b
	DUAL MAGNUM	914	EC	0	PT/A		B			
6	CULTIVATION -1 INCH						A	0 a	0 a	3 b
	DUAL MAGNUM	914	EC	1.33	PT/A	PRE	B			
7	CULTIVATION -2 INCHES						A	1 a	1.1 a	10 a
	DUAL MAGNUM	914	EC	0	PT/A		B			
8	CULTIVATION -2 INCHES						A	1 a	3.8 a	4 b
	DUAL MAGNUM	914	EC	1.33	PT/A	PRE	B			
9	CULTIVATION -4 INCHES						A	0 a	0 a	2 b
	DUAL MAGNUM	914	EC	0	PT/A		B			
10	CULTIVATION -4 INCHES						A	1 a	0.3 a	4 b
	DUAL MAGNUM	914	EC	1.33	PT/A	PRE	B			
LSD (P=.05)								2.4	7.47	5.3
Standard Deviation								0.9	2.91	2
CV								189.74	193.15	56.93

Means followed by same letter do not significantly differ (P=.05, LSD)  
 Mean separations are based on the complete error term.

# The Ohio State University

## TIMING OF CULTIVATION AND DUAL MAGNUM ON DIRECT-SEEDED CABBAGE

Trial ID: CABBGFREM-00      Study Dir.: DR.DOUGLAS J.DOORNB  
 Location: FREMONT, OHIO      Investigator: Dr. Douglas J. Doornik

Weed Code									BRSOL
Crop Code									C
Part Rated									SML CULL
Rating Data Type									WT./KG.
Rating Unit									9/1/00
Rating Date									HARVEST
Crop Stage									1
# Subsamples, Dec.									
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code		10
1	CULTIVATION PRE DUAL MAGNUM	914	EC	0	PT/A		A		0.7 b
2	CULTIVATION PRE DUAL MAGNUM	914	EC	1.33	PT/A	PRE	B		0.6 b
3	CULTIVATION COTYLEDON DUAL MAGNUM	914	EC	0	PT/A		A		1.2 ab
4	CULTIVATION COTYLEDON DUAL MAGNUM	914	EC	1.33	PT/A	PRE	B		1.1 ab
5	CULTIVATION -1 INCH DUAL MAGNUM	914	EC	0	PT/A		A		1.9 ab
6	CULTIVATION -1 INCH DUAL MAGNUM	914	EC	1.33	PT/A	PRE	B		1 ab
7	CULTIVATION -2 INCHES DUAL MAGNUM	914	EC	0	PT/A		A		2.6 a
8	CULTIVATION -2 INCHES DUAL MAGNUM	914	EC	1.33	PT/A	PRE	B		1.1 ab
9	CULTIVATION -4 INCHES DUAL MAGNUM	914	EC	0	PT/A		A		0.7 b
10	CULTIVATION -4 INCHES DUAL MAGNUM	914	EC	1.33	PT/A	PRE	B		1 ab
LSD (P=.05)									1.79
Standard Deviation									0.69
CV									58.44

Means followed by same letter do not significantly differ (P=.05, LSD)  
 Mean separations are based on the complete error term.



# The Ohio State University

## HERBICIDE TEST ON CURCUBITS-PUMPKINS AND CUCUMBERS

Trial ID: CURCRFREMT-00 Study Dir.: DR.DOUGLAS J. DOOHAN AND T.KOCH  
 Location: FREMONT, OH Investigator: Dr. Douglas J. Doohan

### GENERAL TRIAL INFORMATION

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

### TRIAL LOCATION

City: FREMONT Trial Status: COMPLETED  
 State/Prov.: OHIO Trial Reliability: RELIABLE  
 Postal Code: 43420 Initiation Date: Jul-07-00  
 Country: U.S.  
 E-Longitude of LL Corner °: 83.000000 N-Latitude of LL Corner °: 41.000000  
 Altitude of LL Corner: 636.00 Unit: FT.  
 Directions: CORNER OF CR 43 AND SR 53, SOUTHWEST OF FREMONT, OH. SANDUSKY COUNTY.  
 1165 CR 43  
 FREMONT, OH 43420  
 (419)332-5142

### COOPERATOR/LANDOWNER

Cooperator: KEN SCAIFE, BRANCH MGR. Country: USA  
 Org: VEGETABLE CROPS BRANCH-OARDC Phone No: (419)332-5142  
 Address 1: 1165 CR 43, Fax No: 419-332-5643  
 City: FREMONT  
 State/Prov: OHIO  
 Postal Code: 43420

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Objective: TO VERIFY THAT THE PRE-MIX OF ETHALFLURALIN AND CLOMOZONE IS EQUAL TO OR BETTER THAN THE TANK MIX BOTH FROM AN EFFICACY AND PHYTOTOXICITY PERSPECTIVE. TRIAL IS TO EVALUATE PCC170 ON A NUMBER OF CURCUBITS OVER A WIDE RANGE OF SOIL AND ENVIRONMENTAL CONDITIONS.

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	SOLPT	NIGHTSHADE, EASTERN BLACK	SOLANUM PTYCANTHUM DUNAL
2	POROL	PURSLANE, COMMON	PORTULACA OLERACEA L.
3	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
4	MOLVE	CARPETWEED	MOLLUGO VERTICILLATA L.

Crop 1: CUUPE PUMPKIN Variety: HYBRID PAM  
 Planting Date: Jul-08-00 Planting Method: CONVENTIONAL  
 Rate: 2 PER 9" Depth: 0.50 IN Perennial Age: 0 0  
 Row Spacing: 7.5 FT. Seed Bed: CONVENTIONAL  
 Soil Temperature: 67 F Soil Moisture: MOIST Emergence Date: Jul-10-00



# The Ohio State University

## HERBICIDE TEST ON CURCUBITS-PUMPKINS AND CUCUMBERS

Trial ID: CURCRFREMT-00

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

Location: FREMONT, OH

Investigator: Dr. Douglas J. Doohan

### WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	SOLPT .	SOLPT
Stage Scale:	.	SEEDLING
Density, Unit:	. .	M
Weed 2 Code, Stage:	POROL	POROL
Stage Scale:	.	<1 "
Density, Unit:	. .	M
Weed 3 Code, Stage:	CHEAL	CHEAL
Stage Scale:	.	<1 "
Density, Unit:	. .	M
Weed 4 Code, Stage:	MOLVE	MOLVE
Stage Scale:	.	<1 "
Density, Unit:	. .	L

### APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	35PSI	35PSI
Nozzle Type:	FFAN	FFAN
Nozzle Size:	8002VS	8002VS
Nozzle Spacing, Unit:	18 IN	18 IN
Nozzles/Row:	4	4
Band Width, Unit:	5 FT	5 FT
Boom Length, Unit:	54 IN	54 IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Incorporation Equip.:	0	0
Hours to Incorp.:	0	0
Incorp. Depth, Unit:	0	0
Carrier:	H20	H20
Spray Volume, Unit:	20 GPA	20 GPA
Propellant:	CO2	CO2
Tank Mix (Y/N):	Y	Y

### Trial Comments

SPRAY ALL BUT A 2' STRIP ON THE LEFT EDGE OF EACH PLOT

RATINGS: 7,21 &42 DAT; YIELDS-MAYBE

### JUL-11-00 PUMPKIN:

TRTMT 14 COTYLEDON LEAF THICK, 1ST TRUE LEAF VERY STUNTED

TRTMT 15 SICKLY YELLOW OVERALL COLOR

### CUCUMBER:

TRTMT 14 ARRESTED DEVELOPMENT, 1ST TRUE LEAF VERY SICKLY

TRTMT 15 MARGINAL BURN ON COTYLEDON, 1ST TRUE LEAF STUNTED AND YELLOWISH

# The Ohio State University

## HERBICIDE TEST ON CURCUBITS-PUMPKINS AND CUCUMBERS

Trial ID: CURCRFREMT-00

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

Location: FREMONT, OH

Investigator: Dr. Douglas J. Doohan

### JUL-26-00 PUMPKIN:

TRTMT 1 CONTROL  
 TRTMT 2 CONTROL  
 TRTMT 3 NONE  
 TRTMT 4 YELLOWING LEAVES IN REP 1, AND STUNTED PLANTS IN REP 2, 3, 4.  
 TRTMT 5 STUNTED PLANTS IN REP 1,3.  
 TRTMT 6 MARGINAL LEAF BURN REP 1,2,3,4  
 TRTMT 7 MARGINAL LEAF BURN REP 1,2,3,4  
 TRTMT 8 NONE  
 TRTMT 9 STUNTED PLANTS REP 1,2,3,4  
 TRTMT 10 NONE  
 TRTMT 11 LEAF MOTTLING REP 1,2,3,4  
 TRTMT 12 STUNTED PLANTS REP 1,2,3,4  
 TRTMT 13 MARGINAL LEAF BURN REP 1,2,3,4  
 TRTMT 14 STUNTED PLANTS REP 1,2,3,4  
 TRTMT 15 STUNTED PLANTS REP 1,2,3,4

### CUCUMBERS:

TRTMT 1 CONTROL  
 TRTMT 2 CONTROL  
 TRTMT 3 NONE  
 TRTMT 4 NONE  
 TRTMT 5 NONE  
 TRTMT 6 STUNTED PLANTS REP 1,2,3,4  
 TRTMT 7 STUNTED PLANTS REP 1,2,3,4  
 TRTMT 8 STUNTED PLANTS REP 1,2,3,4  
 TRTMT 9 STUNTED PLANTS REP 1,2,3,4  
 TRTMT 10 STUNTED PLANTS REP 1,2,3,4  
 TRTMT 11 LEAF MOTTLING REP 1,2,3,4  
 TRTMT 12 YELLOWING LEAVES REP 1,2,3,4  
 TRTMT 13 STUNTED PLANTS REP 1,2,3,4  
 TRTMT 14 STUNTED PLANTS REP 1,2,3,4  
 TRTMT 15 STUNTED PLANTS REP 1,2,3,4

### COMMENTS FROM VEGETABLE CROPS BRANCH MANAGER (KEN SCAIFE):

APRIL 29 WORKED AREA WITH S-TINE FIELD CULTIVATOR AND DRAG  
 MAY 5 BROADCAST FERTILIZER: 70 LB N/ACRE, 250 LB K<sub>2</sub>O/ACRE, 60 LB P<sub>2</sub>O<sub>5</sub>/ACRE  
 JUNE 11 WORKED AREA WITH CULTIVATOR  
 JULY 7 PLANTED PUMPKINS: 2 SEEDS EVERY 18 INCHES, ROWS 7.5 FEET APART,  
 12 FT. LONG PLOTS

JULY 8 BROADCAST 1.5 QUARTS/ACRE ROUNDUP ULTRA  
 JULY 10 2.4 OZ./1000 FT. FURADAN 4F BANDED OVER ROWS, 7 INCH BAND  
 JULY 14 IRRIGATED 1.5 HOURS=0.3 INCH WATER  
 JULY 20 THINNED PUMPKINS TO 1 PLANT EVERY 18 INCHES  
 JULY 20 THINNED CUCUMBERS TO 9 INCH SPACING  
 JULY 27 SIDEDRESSED 110 LB 46-0-0/ACRE = 50 LB N/ACRE  
 AUG 16 VINE TRAINED CUCUMBERS AND PUMPKINS  
 AUG 20 HOED CUCUMBERS AND PUMPKINS

# The Ohio State University

## HERBICIDE TEST ON CURCUBITS-PUMPKINS AND CUCUMBERS

Trial ID: CURCRFREM-00 Study Dir.: DR. D. J. DOOHAN AND T.KOCH

Location: FREMONT, OH Investigator: Dr. D. J. Doohan

Weed Code								PUMPKIN
Crop Code								C
Part Rated								INJURY
Rating Data Type								%
Rating Unit								7/11/00
Rating Date								1-2LEAF
Crop Stage								0
# Subsamples, Dec.								
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	
								1
1	WEEDY CONTROL							0 d
2	WEED-FREE CONTROL							0 d
3	CURBIT 3.0 EC	3 EC		1.5 PT/A		PRE	A	0 d
4	CURBIT 3.0 EC	3 EC		2 PT/A		PRE	A	0 d
5	CURBIT 3.0 EC	3 EC		3 PT/A		PRE	A	0 d
6	PCC 170 (2.1 SE)	2.1 SE		2.02 PT/A		PRE	A	5 c
7	PCC 170 (2.1 SE)	2.1 SE		2.97 PT/A		PRE	A	5 c
8	PCC 170 (2.1 SE)	2.1 SE		4 PT/A		PRE	A	0 d
9	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	0 d
10	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	5 c
	CURBIT 3.0 EC	3 EC		2 PT/A		PRE	A	
	AUTHORITY 75 DF	75 DF		1.81 OZ/A		PRE	A	
11	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	0 d

# The Ohio State University

## HERBICIDE TEST ON CURCUBITS-PUMPKINS AND CUCUMBERS

Trial ID: CURCRFREM-00 Study Dir.: DR. D. J. DOOHAN AND T.KOCH

Location: FREMONT, OH Investigator: Dr. D. J. Doohan

Weed Code							CUCUMBER	PUMPKIN	PUMPKIN	
Crop Code							C	C	C	
Part Rated							C	C	C	
Rating Data Type							INJURY	STUNT	MAR BURN	
Rating Unit							%	%	%	
Rating Date							7/11/00	7/20/00	7/20/00	
Crop Stage							1 LEAF	2-4LF	2-4LF	
# Subsamples, Dec.							0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	2	3	4
1	WEEDY CONTROL							0 d	0 d	0 d
2	WEED-FREE CONTROL							0 d	0 d	0 d
3	CURBIT 3.0 EC	3 EC		1.5 PT/A		PRE	A	0 d	0 d	0 d
4	CURBIT 3.0 EC	3 EC		2 PT/A		PRE	A	0 d	0 d	0 d
5	CURBIT 3.0 EC	3 EC		3 PT/A		PRE	A	0 d	0 d	0 d
6	PCC 170 (2.1 SE)	2.1 SE		2.02 PT/A		PRE	A	0 d	0 d	0 d
7	PCC 170 (2.1 SE)	2.1 SE		2.97 PT/A		PRE	A	0 d	0 d	0 d
8	PCC 170 (2.1 SE)	2.1 SE		4 PT/A		PRE	A	0 d	0 d	0 d
9	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	0 d	0 d	0 d
10	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	5 c	0 d	5 b
	CURBIT 3.0 EC	3 EC		2 PT/A		PRE	A			
	AUTHORITY 75 DF	75 DF		1.81 OZ/A		PRE	A			
11	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	0 d	0 d	0 d

# The Ohio State University

## HERBICIDE TEST ON CURCUBITS-PUMPKINS AND CUCUMBERS

Trial ID: CURCRFREM-00 Study Dir.: DR. D. J. DOOHAN AND T.KOCH

Location: FREMONT, OH Investigator: Dr. D. J. Doohan

Weed Code								PUMPKIN	CUCUMBER	CUCUMBER
Crop Code								C	C	C
Part Rated								C	C	C
Rating Data Type								YELLOW	STUNT	MAR BURN
Rating Unit								%	%	%
Rating Date								7/20/00	7/20/00	7/20/00
Crop Stage								2-4LF	2-4LF	2-4LF
# Subsamples, Dec.								0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	5	6	7
1	WEEDY CONTROL							0 c	0 c	0 c
2	WEED-FREE CONTROL							0 c	0 c	0 c
3	CURBIT 3.0 EC	3 EC		1.5 PT/A		PRE	A	0 c	0 c	0 c
4	CURBIT 3.0 EC	3 EC		2 PT/A		PRE	A	0 c	0 c	0 c
5	CURBIT 3.0 EC	3 EC		3 PT/A		PRE	A	0 c	0 c	0 c
6	PCC 170 (2.1 SE)	2.1 SE		2.02 PT/A		PRE	A	5 a	0 c	0 c
7	PCC 170 (2.1 SE)	2.1 SE		2.97 PT/A		PRE	A	5 a	0 c	0 c
8	PCC 170 (2.1 SE)	2.1 SE		4 PT/A		PRE	A	5 a	0 c	0 c
9	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	0 c	0 c	0 c
10	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	0 c	0 c	5 b
	CURBIT 3.0 EC	3 EC		2 PT/A		PRE	A			
	AUTHORITY 75 DF	75 DF		1.81 OZ/A		PRE	A			
11	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	0 c	0 c	0 c

# The Ohio State University

## HERBICIDE TEST ON CURCUBITS-PUMPKINS AND CUCUMBERS

Trial ID: CURCRFREM-00 Study Dir.: DR. D. J. DOOHAN AND T.KOCH

Location: FREMONT, OH Investigator: Dr. D. J. Doohan

Weed Code								PUMPKIN	CUCUMBER	SOLPT
Crop Code								C	C	CUKE&PUM
Part Rated								C	C	P
Rating Data Type								INJURY	INJURY	CONTROL
Rating Unit								%	%	%
Rating Date								7/26/00	7/26/00	7/26/00
Crop Stage								4-8LF	4-8LF	4-8LF
# Subsamples, Dec.								0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	8	9	10
1	WEEDY CONTROL							0 f	0 e	0 f
2	WEED-FREE CONTROL							0 f	0 e	100 a
3	CURBIT 3.0 EC	3 EC		1.5 PT/A		PRE	A	0 f	0 e	58 e
4	CURBIT 3.0 EC	3 EC		2 PT/A		PRE	A	5 d	0 e	63 e
5	CURBIT 3.0 EC	3 EC		3 PT/A		PRE	A	3 e	0 e	84 cd
6	PCC 170 (2.1 SE)	2.1 SE		2.02 PT/A		PRE	A	5 d	5 d	80 d
7	PCC 170 (2.1 SE)	2.1 SE		2.97 PT/A		PRE	A	# c	5 d	94 ab
8	PCC 170 (2.1 SE)	2.1 SE		4 PT/A		PRE	A	0 f	5 d	94 ab
9	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	5 d	5 d	85 cd
10	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	0 f	5 d	95 a
	CURBIT 3.0 EC	3 EC		2 PT/A		PRE	A			
	AUTHORITY 75 DF	75 DF		1.81 OZ/A		PRE	A			
11	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	# c	# c	88 bc



# The Ohio State University

## HERBICIDE TEST ON CURCUBITS-PUMPKINS AND CUCUMBERS

Trial ID: CURCRFREM-00 Study Dir.: DR. D. J. DOOHAN AND T.KOCH

Location: FREMONT, OH Investigator: Dr. D. J. Doohan

								POROL	CHEAL	MOLVE
								CUKE&PUM	CUKE&PUM	CUKE&PUM
								P	P	P
								CONTROL	CONTROL	CONTROL
								%	%	%
								7/26/00	7/26/00	7/26/00
								4-8LF	4-8LF	4-8LF
								0	0	0
Trt	Treatment	Form	Form	Product	Product	Grow	Appl			
No.	Name	Conc	Type	Rate	Rate Unit	Stg	Code	11	12	13
1	WEEDY CONTROL							0 e	0 e	100 a
2	WEED-FREE CONTROL							100 a	100 a	100 a
3	CURBIT 3.0 EC	3 EC		1.5 PT/A		PRE	A	64 d	80 d	100 a
4	CURBIT 3.0 EC	3 EC		2 PT/A		PRE	A	61 d	99 ab	100 a
5	CURBIT 3.0 EC	3 EC		3 PT/A		PRE	A	86 c	99 ab	100 a
6	PCC 170 (2.1 SE)	2.1 SE		2.02 PT/A		PRE	A	97 a	97 ab	100 a
7	PCC 170 (2.1 SE)	2.1 SE		2.97 PT/A		PRE	A	94 ab	98 ab	100 a
8	PCC 170 (2.1 SE)	2.1 SE		4 PT/A		PRE	A	95 ab	98 ab	100 a
9	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	89 bc	99 ab	98 b
10	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	96 a	99 ab	100 a
	CURBIT 3.0 EC	3 EC		2 PT/A		PRE	A			
	AUTHORITY 75 DF	75 DF		1.81 OZ/A		PRE	A			
11	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	96 a	91 c	100 a

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## HERBICIDE TEST ON CURCUBITS-PUMPKINS AND CUCUMBERS

Trial ID: CURCRFREM-00 Study Dir.: DR. D. J. DOOHAN AND T.KOCH

Location: FREMONT, OH Investigator: Dr. D. J. Doohan

Weed Code							SOLPT	POROL	CHEAL	
Crop Code							CUKE&PUM	CUKE&PUM	CUKE&PUM	
Part Rated							P	P	P	
Rating Data Type							CONTROL	CONTROL	CONTROL	
Rating Unit							%	%	%	
Rating Date							8/3/00	8/3/00	8/3/00	
Crop Stage							>8LF	>8LF	>8LF	
# Subsamples, Dec.							0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	14	15	16
1	WEEDY CONTROL							0 e	0 e	25 c
2	WEED-FREE CONTROL							100 a	100 a	100 a
3	CURBIT 3.0 EC	3	EC	1.5	PT/A	PRE	A	63 cd	58 d	70 ab
4	CURBIT 3.0 EC	3	EC	2	PT/A	PRE	A	65 bcd	70 bcd	90 ab
5	CURBIT 3.0 EC	3	EC	3	PT/A	PRE	A	81 a-d	85 a-d	96 ab
6	PCC 170 (2.1 SE)	2.1	SE	2.02	PT/A	PRE	A	85 a-d	87 abc	90 ab
7	PCC 170 (2.1 SE)	2.1	SE	2.97	PT/A	PRE	A	93 abc	97 ab	96 ab
8	PCC 170 (2.1 SE)	2.1	SE	4	PT/A	PRE	A	89 abc	91 abc	96 ab
9	COMMAND 3ME	3	EC	0.67	PT/A	PRE	A	57 d	65 cd	66 b
10	COMMAND 3ME	3	EC	0.67	PT/A	PRE	A	94 ab	92 abc	99 a
	CURBIT 3.0 EC	3	EC	2	PT/A	PRE	A			
	AUTHORITY 75 DF	75	DF	1.81	OZ/A	PRE	A			
11	COMMAND 3ME	3	EC	0.67	PT/A	PRE	A	100 a	97 ab	100 a

# The Ohio State University

## HERBICIDE TEST ON CURCUBITS-PUMPKINS AND CUCUMBERS

Trial ID: CURCRFREM-00 Study Dir.: DR. D. J. DOOHAN AND T.KOCH

Location: FREMONT, OH Investigator: Dr. D. J. Doohan

Weed Code								PUMPKIN	PUMPKIN	PUMPKIN
Crop Code								C	C	C
Part Rated								C	C	C
Rating Data Type								STUNT	LF BURN	YELLOW
Rating Unit								%	%	%
Rating Date								8/3/00	8/3/00	8/3/00
Crop Stage								>8LF	>8LF	>8LF
# Subsamples, Dec.								0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	17	18	19
1	WEEDY CONTROL							0 d	0 c	0 c
2	WEED-FREE CONTROL							0 d	0 c	0 c
3	CURBIT 3.0 EC	3 EC		1.5 PT/A		PRE A		6 cd	1 c	0 c
4	CURBIT 3.0 EC	3 EC		2 PT/A		PRE A		0 d	0 c	0 c
5	CURBIT 3.0 EC	3 EC		3 PT/A		PRE A		0 d	0 c	0 c
6	PCC 170 (2.1 SE)	2.1 SE		2.02 PT/A		PRE A		3 d	1 c	0 c
7	PCC 170 (2.1 SE)	2.1 SE		2.97 PT/A		PRE A		3 d	0 c	0 c
8	PCC 170 (2.1 SE)	2.1 SE		4 PT/A		PRE A		3 d	0 c	0 c
9	COMMAND 3ME	3 EC		0.67 PT/A		PRE A		3 d	0 c	0 c
10	COMMAND 3ME	3 EC		0.67 PT/A		PRE A		5 d	3 c	0 c
	CURBIT 3.0 EC	3 EC		2 PT/A		PRE A				
	AUTHORITY 75 DF	75 DF		1.81 OZ/A		PRE A				
11	COMMAND 3ME	3 EC		0.67 PT/A		PRE A		30 b	43 b	8 bc

# The Ohio State University

## HERBICIDE TEST ON CURCUBITS-PUMPKINS AND CUCUMBERS

Trial ID: CURCRFREM-00 Study Dir.: DR. D. J. DOOHAN AND T.KOCH

Location: FREMONT, OH Investigator: Dr. D. J. Doohan

Weed Code								PUMPKIN	CUCUMBER	CUCUMBER
Crop Code								C	C	C
Part Rated								C	C	C
Rating Data Type								MOTTLING	STUNT	LF BURN
Rating Unit								%	%	%
Rating Date								8/3/00	8/3/00	8/3/00
Crop Stage								>8LF	>8LF	>8LF
# Subsamples, Dec.								0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	20	21	22
1	WEEDY CONTROL							0 b	0 d	0 c
2	WEED-FREE CONTROL							0 b	0 d	0 c
3	CURBIT 3.0 EC	3 EC		1.5 PT/A		PRE	A	1 b	6 d	4 bc
4	CURBIT 3.0 EC	3 EC		2 PT/A		PRE	A	0 b	5 d	0 c
5	CURBIT 3.0 EC	3 EC		3 PT/A		PRE	A	0 b	6 d	0 c
6	PCC 170 (2.1 SE)	2.1 SE		2.02 PT/A		PRE	A	0 b	5 d	1 c
7	PCC 170 (2.1 SE)	2.1 SE		2.97 PT/A		PRE	A	1 b	5 d	0 c
8	PCC 170 (2.1 SE)	2.1 SE		4 PT/A		PRE	A	1 b	6 d	1 c
9	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	1 b	2 d	0 c
10	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	0 b	10 cd	4 bc
	CURBIT 3.0 EC	3 EC		2 PT/A		PRE	A			
	AUTHORITY 75 DF	75 DF		1.81 OZ/A		PRE	A			
11	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	0 b	33 abc	53 a

# The Ohio State University

## HERBICIDE TEST ON CURCUBITS-PUMPKINS AND CUCUMBERS

Trial ID: CURCRFREM-00 Study Dir.: DR. D. J. DOOHAN AND T.KOCH

Location: FREMONT, OH Investigator: Dr. D. J. Doohan

Weed Code							CUCUMBER	CUCUMBER	SOLPT	
Crop Code							C	C	CUKE&PUM	
Part Rated							YELLOW	MOTTLING	P	
Rating Data Type							%	%	CONTROL	
Rating Unit							8/3/00	8/3/00	8/3/00	
Rating Date							>8LF	>8LF	>8LF	
Crop Stage							0	0	0	
# Subsamples, Dec.										
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	23	24	25
1	WEEDY CONTROL							0 b	0 b	0 d
2	WEED-FREE CONTROL							0 b	0 b	100 a
3	CURBIT 3.0 EC	3 EC		1.5 PT/A		PRE	A	1 b	1 b	63 c
4	CURBIT 3.0 EC	3 EC		2 PT/A		PRE	A	0 b	0 b	65 c
5	CURBIT 3.0 EC	3 EC		3 PT/A		PRE	A	1 b	1 b	81 abc
6	PCC 170 (2.1 SE)	2.1 SE		2.02 PT/A		PRE	A	1 b	0 b	85 ab
7	PCC 170 (2.1 SE)	2.1 SE		2.97 PT/A		PRE	A	0 b	0 b	93 ab
8	PCC 170 (2.1 SE)	2.1 SE		4 PT/A		PRE	A	1 b	0 b	89 ab
9	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	0 b	1 b	77 bc
10	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	1 b	3 b	94 ab
	CURBIT 3.0 EC	3 EC		2 PT/A		PRE	A			
	AUTHORITY 75 DF	75 DF		1.81 OZ/A		PRE	A			
11	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	15 a	0 b	100 a

# The Ohio State University

## HERBICIDE TEST ON CURCUBITS-PUMPKINS AND CUCUMBERS

Trial ID: CURCRFREM-00 Study Dir.: DR. D. J. DOOHAN AND T.KOCH

Location: FREMONT, OH Investigator: Dr. D. J. Doohan

Weed Code								POROL	CHEAL	
Crop Code								CUKE&PUM	CUKE&PUM	PUMPKIN
Part Rated								P	P	C
Rating Data Type								CONTROL	CONTROL	STUNTING
Rating Unit								%	%	%
Rating Date								8/3/00	8/3/00	8/14/00
Crop Stage								>8LF	>8LF	>8LF
# Subsamples, Dec.								0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	26	27	28
1	WEEDY CONTROL							0 d	25 c	0 e
2	WEED-FREE CONTROL							100 a	100 a	0 e
3	CURBIT 3.0 EC	3	EC	1.5	PT/A	PRE	A	60 c	70 b	0 e
4	CURBIT 3.0 EC	3	EC	2	PT/A	PRE	A	70 bc	90 ab	0 e
5	CURBIT 3.0 EC	3	EC	3	PT/A	PRE	A	85 ab	95 a	0 e
6	PCC 170 (2.1 SE)	2.1	SE	2.02	PT/A	PRE	A	87 a	90 ab	0 e
7	PCC 170 (2.1 SE)	2.1	SE	2.97	PT/A	PRE	A	97 a	96 a	0 e
8	PCC 170 (2.1 SE)	2.1	SE	4	PT/A	PRE	A	91 a	96 a	0 e
9	COMMAND 3ME	3	EC	0.67	PT/A	PRE	A	87 a	88 ab	1 e
10	COMMAND 3ME	3	EC	0.67	PT/A	PRE	A	92 a	99 a	0 e
	CURBIT 3.0 EC	3	EC	2	PT/A	PRE	A			
	AUTHORITY 75 DF	75	DF	1.81	OZ/A	PRE	A			
11	COMMAND 3ME	3	EC	0.67	PT/A	PRE	A	97 a	100 a	58 b

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## HERBICIDE TEST ON CURCUBITS-PUMPKINS AND CUCUMBERS

Trial ID: CURCRFREMT-00 Study Dir.: DR. D. J. DOOHAN AND T.KOCH

Location: FREMONT, OH Investigator: Dr. D. J. Doohan

Weed Code							CUCUMBER	SOLPT	POROL	
Crop Code							CUCUMBER	CUKE&PUM	CUKE&PUM	
Part Rated							C	P	P	
Rating Data Type							STUNTING	CONTROL	CONTROL	
Rating Unit							%	%	%	
Rating Date							8/14/00	8/14/00	8/14/00	
Crop Stage							>8LF	>8LF	>8LF	
# Subsamples, Dec.							0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	29	30	31
1	WEEDY CONTROL							0 d	0 g	0 f
2	WEED-FREE CONTROL							0 d	100 a	100 a
3	CURBIT 3.0 EC	3 EC		1.5 PT/A		PRE	A	0 d	65 f	68 e
4	CURBIT 3.0 EC	3 EC		2 PT/A		PRE	A	0 d	68 ef	79 d
5	CURBIT 3.0 EC	3 EC		3 PT/A		PRE	A	0 d	86 cd	89 bcd
6	PCC 170 (2.1 SE)	2.1 SE		2.02 PT/A		PRE	A	0 d	79 de	86 bcd
7	PCC 170 (2.1 SE)	2.1 SE		2.97 PT/A		PRE	A	1 d	86 cd	95 ab
8	PCC 170 (2.1 SE)	2.1 SE		4 PT/A		PRE	A	3 d	95 abc	93 ab
9	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	1 d	90 a-d	95 ab
10	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	0 d	93 abc	93 ab
	CURBIT 3.0 EC	3 EC		2 PT/A		PRE	A			
	AUTHORITY 75 DF	75 DF		1.81 OZ/A		PRE	A			
11	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	53 b	99 a	96 ab

# The Ohio State University

## HERBICIDE TEST ON CURCUBITS-PUMPKINS AND CUCUMBERS

Trial ID: CURCRFREM-00 Study Dir.: DR. D. J. DOOHAN AND T.KOCH

Location: FREMONT, OH Investigator: Dr. D. J. Doohan

								CHEAL	MOLVE	
								CUKE&PUM	CUKE&PUM	PUMPKIN
								P	P	C
								CONTROL	CONTROL	INJURY
								%	%	%
								8/14/00	8/14/00	8/29/00
								>8LF	>8LF	>8LF
								0	0	0
Trt	Treatment	Form	Form	Product	Product	Grow	Appl			
No.	Name	Conc	Type	Rate	Rate Unit	Stg	Code	32	33	34
1	WEEDY CONTROL							0 e	0 c	1 c
2	WEED-FREE CONTROL							100 a	100 a	0 c
3	CURBIT 3.0 EC	3	EC	1.5	PT/A	PRE	A	79 d	87 b	0 c
4	CURBIT 3.0 EC	3	EC	2	PT/A	PRE	A	87 c	99 a	0 c
5	CURBIT 3.0 EC	3	EC	3	PT/A	PRE	A	99 a	98 a	1 c
6	PCC 170 (2.1 SE)	2.1	SE	2.02	PT/A	PRE	A	96 ab	98 a	1 c
7	PCC 170 (2.1 SE)	2.1	SE	2.97	PT/A	PRE	A	98 ab	99 a	3 c
8	PCC 170 (2.1 SE)	2.1	SE	4	PT/A	PRE	A	98 ab	98 a	1 c
9	COMMAND 3ME	3	EC	0.67	PT/A	PRE	A	99 a	89 b	0 c
10	COMMAND 3ME	3	EC	0.67	PT/A	PRE	A	99 a	97 a	0 c
	CURBIT 3.0 EC	3	EC	2	PT/A	PRE	A			
	AUTHORITY 75 DF	75	DF	1.81	OZ/A	PRE	A			
11	COMMAND 3ME	3	EC	0.67	PT/A	PRE	A	97 ab	97 a	10 b



# The Ohio State University

## HERBICIDE TEST ON CURCUBITS-PUMPKINS AND CUCUMBERS

Trial ID: CURCRFREM-00 Study Dir.: DR. D. J. DOOHAN AND T.KOCH

Location: FREMONT, OH Investigator: Dr. D. J. Doohan

Weed Code							CUCUMBER	CUCUMBER	CUCUMBER	
Crop Code							C	C	C	
Part Rated										
Rating Data Type							INJURY	MRKET WT	CULL WT	
Rating Unit							%	KG	KG	
Rating Date							8/29/00	8/21/00	8/21/00	
Crop Stage							>8LF	YIELD	YIELD	
# Subsamples, Dec.							0	1	1	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	35	36	37
1	WEEDY CONTROL							1 c	3.6 ab	0.1 ab
2	WEED-FREE CONTROL							0 c	3.4 abc	0.1 ab
3	CURBIT 3.0 EC	3 EC		1.5 PT/A		PRE	A	0 c	3 a-d	0.1 ab
4	CURBIT 3.0 EC	3 EC		2 PT/A		PRE	A	0 c	3.2 abc	0.2 ab
5	CURBIT 3.0 EC	3 EC		3 PT/A		PRE	A	4 c	3.3 abc	0.1 ab
6	PCC 170 (2.1 SE)	2.1 SE		2.02 PT/A		PRE	A	1 c	2.9 bcd	0.2 a
7	PCC 170 (2.1 SE)	2.1 SE		2.97 PT/A		PRE	A	0 c	2.8 cd	0.2 ab
8	PCC 170 (2.1 SE)	2.1 SE		4 PT/A		PRE	A	0 c	3 a-d	0.1 ab
9	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	0 c	3.6 a	0.1 ab
10	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	1 c	2.4 d	0.2 ab
	CURBIT 3.0 EC	3 EC		2 PT/A		PRE	A			
	AUTHORITY 75 DF	75 DF		1.81 OZ/A		PRE	A			
11	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	13 b	0.3 e	0.1 b

# The Ohio State University

## HERBICIDE TEST ON CURCUBITS-PUMPKINS AND CUCUMBERS

Trial ID: CURCRFREM-00 Study Dir.: DR. D. J. DOOHAN AND T.KOCH

Location: FREMONT, OH Investigator: Dr. D. J. Doohan

Weed Code							CUCUMBER	CUCUMBER	CUCUMBER	
Crop Code							C	C	C	
Part Rated							MRKET WT	CULL WT	MRKET WT	
Rating Data Type							KG	KG	KG	
Rating Unit							8/24/00	8/24/00	8/28/00	
Rating Date							YIELD	YIELD	YIELD	
Crop Stage							1	1	1	
# Subsamples, Dec.										
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	38	39	40
1	WEEDY CONTROL							0.6 ab	0.2 a	2.3 a
2	WEED-FREE CONTROL							0.5 ab	0.1 b	2.1 ab
3	CURBIT 3.0 EC	3 EC		1.5 PT/A		PRE	A	0.6 a	0.1 ab	2.1 a
4	CURBIT 3.0 EC	3 EC		2 PT/A		PRE	A	0.4 ab	0.1 ab	2.7 a
5	CURBIT 3.0 EC	3 EC		3 PT/A		PRE	A	0.5 ab	0.1 ab	2.2 a
6	PCC 170 (2.1 SE)	2.1 SE		2.02 PT/A		PRE	A	0.7 a	0.1 ab	2.2 a
7	PCC 170 (2.1 SE)	2.1 SE		2.97 PT/A		PRE	A	0.7 a	0.1 b	2.4 a
8	PCC 170 (2.1 SE)	2.1 SE		4 PT/A		PRE	A	0.7 a	0 b	2.4 a
9	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	0.6 a	0.1 b	2.9 a
10	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	0.7 a	0 b	2.1 ab
	CURBIT 3.0 EC	3 EC		2 PT/A		PRE	A			
	AUTHORITY 75 DF	75 DF		1.81 OZ/A		PRE	A			
11	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	0.4 ab	0.1 b	0.8 cd

# The Ohio State University

## HERBICIDE TEST ON CURCUBITS-PUMPKINS AND CUCUMBERS

Trial ID: CURCRFREM-00 Study Dir.: DR. D. J. DOOHAN AND T.KOCH

Location: FREMONT, OH Investigator: Dr. D. J. Doohan

Weed Code							CUCUMBER	CUCUMBER	CUCUMBER	
Crop Code							C	C	C	
Part Rated							CULL WT	MRKET WT	CULL WT	
Rating Data Type							KG	KG	KG	
Rating Unit							8/28/00	8/31/00	8/31/00	
Rating Date							YIELD	YIELD	YIELD	
Crop Stage							1	1	1	
# Subsamples, Dec.										
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	41	42	43
1	WEEDY CONTROL							0.2 ab	1 abc	0.3 abc
2	WEED-FREE CONTROL							0.2 ab	1.1 abc	0.3 abc
3	CURBIT 3.0 EC	3 EC		1.5 PT/A		PRE	A	0.1 abc	1.5 ab	0.3 abc
4	CURBIT 3.0 EC	3 EC		2 PT/A		PRE	A	0.1 ab	0.6 cd	0.2 bc
5	CURBIT 3.0 EC	3 EC		3 PT/A		PRE	A	0.2 a	0.8 a-d	0.4 ab
6	PCC 170 (2.1 SE)	2.1 SE		2.02 PT/A		PRE	A	0.1 ab	1.5 a	0.6 a
7	PCC 170 (2.1 SE)	2.1 SE		2.97 PT/A		PRE	A	0.1 ab	1.2 abc	0.5 ab
8	PCC 170 (2.1 SE)	2.1 SE		4 PT/A		PRE	A	0.2 ab	0.8 bcd	0.4 abc
9	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	0.2 ab	0.9 abc	0.3 abc
10	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	0.1 ab	1.1 abc	0.4 abc
	CURBIT 3.0 EC	3 EC		2 PT/A		PRE	A			
	AUTHORITY 75 DF	75 DF		1.81 OZ/A		PRE	A			
11	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	0.1 bc	0.8 a-d	0.2 bc

# The Ohio State University

## HERBICIDE TEST ON CURCUBITS-PUMPKINS AND CUCUMBERS

Trial ID: CURCRFREMT-00      Study Dir.: DR. D. J. DOOHAN ANI  
 Location: FREMONT, OH      Investigator: Dr. Douglas J.

Weed Code							PUMPKIN	PUMPKIN	PUMPKIN	
Crop Code							C	C	C	
Part Rated							MRKET WT	GREEN WT	CULL WT	
Rating Data Type							LBS	LBS	LBS	
Rating Unit							10/10/00	10/10/00	10/10/00	
Rating Date							YIELD	YIELD	YIELD	
Crop Stage							1	1	1	
# Subsamples, Dec.										
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	44	45	46
1	WEEDY CONTROL							59 abc	6.1 bc	1.5 ab
2	WEED-FREE CONTROL							52.7 cd	6.9 bc	2.5 ab
3	CURBIT 3.0 EC	3 EC		1.5 PT/A		PRE	A	64.5 a	7.8 bc	2.7 ab
4	CURBIT 3.0 EC	3 EC		2 PT/A		PRE	A	61.1 abc	2.5 bc	1.5 ab
5	CURBIT 3.0 EC	3 EC		3 PT/A		PRE	A	58.6 abc	7.4 bc	1.6 ab
6	PCC 170 (2.1 SE)	2.1 SE		2.02 PT/A		PRE	A	64.3 ab	4.6 bc	0.6 b
7	PCC 170 (2.1 SE)	2.1 SE		2.97 PT/A		PRE	A	54.3 a-d	10.4 ab	2.9 ab
8	PCC 170 (2.1 SE)	2.1 SE		4 PT/A		PRE	A	58.2 abc	6.1 bc	1.4 ab
9	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	62.9 abc	7.9 bc	3.8 ab
10	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	55.5 a-d	10.7 ab	1.6 ab
	CURBIT 3.0 EC	3 EC		2 PT/A		PRE	A			
	AUTHORITY 75 DF	75 DF		1.81 OZ/A		PRE	A			
11	COMMAND 3ME	3 EC		0.67 PT/A		PRE	A	44.3 d	16.8 a	2 ab

# The Ohio State University

Trial Type: RES Protocol No.: NA99M2A016 Project Plan #: 9900FRVG  
 Discipline:\* HERBICIDE DED#:\* M2A Main Chem: CLORANSULAM-METHYL, DE-565  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES Product Dev. Stage:\* COMMERCIAL  
 Trial Category:\* TOLER/CROP ROT. Site Type:\* CROPS,VEGETABLE

Title: SENSITIVITY OF VEGETABLE CROPS TO SOIL RESIDUES OF PRE- AND POST  
 HERBICIDES APPLIED THE PREVIOUS YEAR (FIRSTRATE CARRYOVER STUDY)

Business Unit:\* US MIDWEST PRM License Holder: M. E. SCHULTZ

## CONCEPT/KEY QUESTION

Key Question 1: DO IMPORTANT ROTATIONAL VEGETABLE AND SPECIALTY CROPS HAVE  
 ACCEPTABLE TOLERANCE TO APPLICATIONS OF CLORANSULAM-METHYL APPLIED THE PREVIOUS  
 YEAR?

## GENERAL TRIAL INFORMATION

Experiment Number: MES9928  
 Establish Date: Jun-11-99

People/Places*	DA Man#	Name	City/Town	Loc	Phone
Dow Agro Rep:	U672068	SCHULTZ, M. E.	FISHERS	IN	317-596-0907
Trial Address:			FREMONT	OH	
Applicator:	NON-DE	DOOHAN, DOUG	WOOSTER	OH	330-262-7840
Evaluator:	NON-DE	DOOHAN, DOUG	WOOSTER	OH	330-202-3593
GLP Director:	NON-DE	FELIX, JOEL	WOOSTER	OH	330-202-3595
Cooperator:	NON-DE	DOOHAN, DOUG	WOOSTER	OH	330-202-3593

Locn Of Trial: OARDC VEGETABLE RESEARCH STATION AT FREMONT, OHIO

## REGULATORY INFORMATION

GLP Study (Y/N): N

## TRIAL LAYOUT

Number Of Replicates: 4 Experimental Design: RCB  
 Plot Size: 15 X 50 Units:\* FT

## TRIAL SITE

Soil Type:\* HOYTVILLE  
 Tillage Type:\* CONV. Previous Crop: SOYBEANS  
 %OM: 3.0 pH: 5.5 % Slope: 0

## CHEMICAL/TILLAGE HISTORY (PAST YEARS) FOR SITE

Approx Date	Treatment or Device	Rate	Purpose
1. Jun-16-98	GLYPHOSATE	1 QT/A	
2. Jul-15-97	TURBO	2.5 PT/A	
3. Jul-20-96	NONE	N/A	

# The Ohio State University

Trial Type: RES Protocol No.: NA99M2A016 Project Plan #: 9900FRVG

### CROP TABLE

Code*	Scientific Name*	Common Name*	Variety
	Plant Spacing	Seeding	Height
	Date Row ,Un*	Depth,Un*	At Appl,Un*
1. AVESA	AVENA SATIVA	COMMON OAT	OGLE
	May-08-00 , , , , , ,		
2. SOLTU	SOLANUM TUBEROSUM	POTATO	SUPERIOR
	May-08-00 , 1 ,FT , , , ,		
3. ZEAMS	ZEA MAYS SACCHARATA	SWEET CORN /MAIZE, SWEET	>=5 POPULAR
	May-16-00 , , , , , ,		
4. GLXMA	GLYCINE MAX	SOYBEAN	GRIES 240 RR
	, , , , , ,		

### PEST TABLE

Code*	Scientific Name*	Common Name*			
	Application	Part/Sub	Weed	Pest Gr	Appl
	Den/Type/Un	Eval*	Hgt/Dia	Stage*	Code

### INCORPORATION INFORMATION

Inc. Device	Time After	Equipment	Treatment
No. Description*	Speed,Un*	Appl,Un*	Depth,Un*
			Numbers

### APPLICATION TIMING

Appl. Code:	A	B	C	D	E	F
Date:	Jun-11-99	Jul-16-99	May-10-00	May-11-00	May-26-00	Jun-01-00
Interval:						
Time Of Day:						
Crop Stage:*	PREEMERG	POST	POST	POST	POST	POST
User Option:			DUAL 2PT	SENCOR	DUAL 2PT	SEVIN

### APPLICATION EQUIPMENT

Appl. Code:	A	B	C	D	E	F
Diluent:*	WATER	WATER	WATER	WATER	WATER	WATER
Appl Method:*	PPI	POST	POST	POST	POST	POST
Appl Place/Opt:*	BROADCAST	BROADCAST	BROADCAST	BROADCAST	BROADCAST	BROADCAST
Appl Eqpt Type:*	TRACTAIR	TRACTN2	TRACTOR	TRACTOR	TRACTOR	TRACTOR
Equip. Speed,Un:*	3.0 ,MPH	3.0 ,MPH	3.0 ,MPH	3.0 ,MPH	3.0 ,MPH	3.0 ,MPH
Equip Pres,Unit:*	, , , , , ,					
Type Planter:*						
Nozzle Type:*	TXVS8002	TXVS8002	TXVS8002	TXVS8002	TXVS8002	TXVS8002
Nozzle Manufact:						
Nozzle No./Size:						
No. Nozz/Knives:						
Nozzle Space,Un:*	, , , , , ,					
Orientation:						
Bd/Swath Wid,Un:*	, , , , , ,					
Target Dist,Un:*	, , , , , ,					
Volume,Unit:*	, , , , , ,					

# The Ohio State University

Trial Type: RES Protocol No.: NA99M2A016 Project Plan #: 9900FRVG

### APPLICATION ENVIRONMENT

Appl. Code:	A	B	C	D	E	F
Air Temp., Un:*	,	,	,	,	,	,
% Rel Hum:						
Wind Speed, Un:*	,	,	,	,	,	,
Wind Direction:*						
Cloud Cover:*						
Soil Moisture:*						
Soil Temp., Un:*	,	,	,	,	,	,
@ Depth, Un:*	,	,	,	,	,	,
Foliage Moist:*						
Data Source:*						

### APPLICATION CONDITIONS: PRECIPITATION (RAINFALL+IRRIGATION)

Appl. Code:	A	B	C	D	E	F
Ppt2wk Prior, Un:*	,	,	,	,	,	,
Ppt1wk Prior, Un:*	,	,	,	,	,	,
Time To 1st, Un:*	,	,	,	,	,	,
Date 1st Pptn:						
Amt. 1st Ppt, Un:*	,	,	,	,	,	,
1st Waa Tot, Un:*	,	,	,	,	,	,
2nd Waa Tot, Un:*	,	,	,	,	,	,
3rd Waa Tot, Un:*	,	,	,	,	,	,
4th Waa Tot, Un:*	,	,	,	,	,	,
4 Weeks Tot, Un:*	,	,	,	,	,	,

### HISTORICAL PRECIPITATION FOR ROTATION SITE

Year	Month*	Historical	
		Actual, Un*	Avg, Un*
		,	,

### APPLICATION COMMENTS

Application Comments

### ARTIFICIAL INOCULATION/INFESTATION

Date	Crop	Pest	Pest	Pest	Pest	Inoc/Inf	Conc.	Inoc/Inf
Inoc	Stage*	Code*	Stage*	Source	Storage	Volume	/ML	Method

### PADDY RICE

Date	Rice Seedlings			Water Temp (C)			Air Temp (C)		
	No. Leaves	Hgt (Cm)		Max	Min	Avg	Max	Min	Avg

### OTHER AGRICULTURAL PRACTICES

Date	Treatment*	Rate	Target/Reason*
------	------------	------	----------------

### WEATHER DATA

Date	Air Temp (C)			% Humidity			Precip./Irrig.			Wind	User	User
	Max	Min	Avg	Max	Min	Avg	Start	End	Tot(Mm)	Spd(Kph)	Option	Option

# The Ohio State University

Trial Type: RES Protocol No.: NA99M2A016 Project Plan #: 9900FRVG

**PROTOCOL AMENDMENTS/DEVIATIONS (MANDATORY FOR GLP STUDIES)**

Discipline:\* HERBICIDE DED#:\* M2A Main Chem: CLORANSULAM-METHYL, DE-565

Region(s):\* U.S./CANADA

Country:\* UNITED STATES Product Dev. Stage:\* COMMERCIAL

Trial Category:\* TOLER/CROP ROT. Site Type:\* CROPS,VEGETABLE

Title: SENSITIVITY OF VEGETABLE CROPS TO SOIL RESIDUES OF PRE- AND POST  
HERBICIDES APPLIED THE PREVIOUS YEAR (FIRSTRATE CARRYOVER STUDY)

Business Unit:\* US MIDWEST

PRM License Holder: M. E. SCHULTZ

## Trial Comments

RELIABILITY/VALIDITY

SUMMARY

CONCLUSIONS

STATISTICAL ANALYSIS



# The Ohio State University

Trial Type: RES Protocol No.: NA99M2A016 Project Plan #: 9900FRVG  
 Discipline:\* HERBICIDE DED#:\* M2A Main Chem: CLORANSULAM-METHYL, DE-565  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES Product Dev. Stage:\* COMMERCIAL  
 Trial Category:\* TOLER/CROP ROT. Site Type:\* CROPS,VEGETABLE

Title: SENSITIVITY OF VEGETABLE CROPS TO SOIL RESIDUES OF PRE- AND POST  
 HERBICIDES APPLIED THE PREVIOUS YEAR (FIRSTRATE CARRYOVER STUDY)

Business Unit:\* US MIDWEST PRM License Holder: M. E. SCHULTZ

Observation No.	1	2	3	4	5	6	7	8
Evaluation Date	7/22/99	7/22/99	7/22/99	8/2/99	8/2/99	8/2/99	8/13/99	8/13/99
Crop Code*	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Part/Sub Eval*	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Evaluation Type*	CHLORO	STUNTING	INJURY	CHLORO	STUNTING	INJURY	CHLORO	STUNTING
Eval Unit/Scale*	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL
Sample Size								
Sample Unit*								
User Option 1								
User Option 2								
PRM Data Type*	P	P	P	P	P	P	P	P
Trt No	1	2	3	4	5	6	7	8
Appl Code								
Treatment Name*	UNTREATED	FIRSTRATE	FIRSTRATE	FIRSTRATE	FIRSTRATE	FIRSTRATE	FIRSTRATE	FIRSTRATE
Form Conc		84 WG	84 WG	84 WG	84 WG	84 WG	84 WG	84 WG
Fm Ds*								
Timing/ Dev Stg			5-6 TRIF					
1	0 e	0 c	0 c	0 b	0 c	0 b	0 a	0 c
2 A	0 e	0 c	0 c	0 b	1.3 bc	1.3 b	0 a	0.8 bc
3 A	0 e	0 c	0 c	0 b	1.5 bc	0.8 b	0 a	0 c
4 A	0.3 e	0 c	0.3 c	0 b	2.5 b	1.5 b	0 a	2 b
5 B	3.3 d	0.8 c	3 b	0 b	0 c	0 b	0 a	0 c
B								
B								
B								
6 B	4.5 c	1.5 c	4 b	0 b	0 c	0 b	0 a	0 c
B								
B								
B								
7 B	5.5 b	4 b	4.5 b	0.3 b	1.3 bc	1 b	0 a	0.8 bc
B								
B								
B								
8 B	9.5 a	7.8 a	10 a	1.5 a	6.5 a	7.5 a	0 a	8.3 a
B								
B								
B								
9 B	3 d	1.5 c	3 b	0 b	0 c	0 b	0 a	0 c
B								
LSD (P=.05)	1	2.25	2.32	0.53	2	1.69	0	1.93
Standard Deviation	0.68	1.54	1.59	0.37	1.37	1.16	0	1.32
CV	23.61	89.44	57.87	188.44	94.97	86.83	0	101.26

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

### The Ohio State University

Trial Type: RES Protocol No.: NA99  
 Discipline:\* HERBICIDE DED#:\* M2  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES Pr  
 Trial Category:\* TOLER/CROP ROT.

Title: SENSITIVITY OF VEGETABLE CROP  
 HERBICIDES APPLIED THE PREVIOUS YEAR

Business Unit:\* US MIDWEST

Observation No.	9	10	11	12	13	14	15	16
Evaluation Date	8/13/99	6/1/00	6/1/00	6/1/00	6/1/00	6/1/00	6/1/00	6/1/00
Crop Code*	GLXMA	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part/Sub Eval*	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Evaluation Type*	INJURY	CHLORO	STUNTING	INJURY	CHLORO	STUNTING	INJURY	CHLORO
Eval Unit/Scale*	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL
Sample Size								
Sample Unit*								
User Option 1		A SWEET	A SWEET	A SWEET	KANDY K	KANDY K	KANDY K	SWEET R
User Option 2		7DAE	7DAE	7DAE	7DAE	7DAE	7DAE	7DAE
PRM Data Type*	P	P	P	P	P	P	P	P
Trt No	9	10	11	12	13	14	15	16
Appl Code								
Treatment Name*	UNTREATED							
Form Conc								
Fm Ds*								
Timing/ Dev Stg								
1	0 b	0 a	0 a	0 a	0 a	0 b	0 b	0 a
2 A	0.8 b	0 a	0 a	0 a	0 a	2.5 ab	5 ab	0 a
3 A	0 b	0 a	0 a	0 a	0 a	7.5 a	7.5 a	0 a
4 A	1.5 b	0 a	0 a	0 a	0 a	2.5 ab	2.5 ab	0 a
5 B	0 b	0 a	0 a	0 a	0 a	2.5 ab	2.5 ab	0 a
B								
B								
6 B	0 b	0 a	0 a	0 a	0 a	2.5 ab	2.5 ab	0 a
B								
B								
7 B	0.8 b	0 a	2.5 a	3.8 a	0 a	0 b	0 b	0 a
B								
B								
8 B	8.3 a	0 a	2.5 a	5 a	0 a	3.8 ab	3.8 ab	0 a
B								
B								
9 B	0 b	0 a	5 a	0 a	0 a	2.5 ab	5 ab	0 a
B								
LSD (P=.05)	1.77	0	5.3	5.7	0	7.36	7.43	0
Standard Deviation	1.21	0	3.63	3.91	0	5.05	5.09	0
CV	97.14	0	326.92	402.04	0	191.22	159.39	0

Means followed by same letter do not significantly differ

### The Ohio State University

Trial Type: RES Protocol No.: NA99  
 Discipline:\* HERBICIDE DED#:\* M2  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES Pr  
 Trial Category:\* TOLER/CROP ROT.

Title: SENSITIVITY OF VEGETABLE CROP  
 HERBICIDES APPLIED THE PREVIOUS YEAR

Business Unit:\* US MIDWEST

Observation No.	17	18	19	20	21	22	23	24
Evaluation Date	6/1/00	6/1/00	6/1/00	6/1/00	6/1/00	6/1/00	6/1/00	6/1/00
Crop Code*	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part/Sub Eval*	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Evaluation Type*	STUNTING	INJURY	CHLORO	STUNTING	INJURY	CHLORO	STUNTING	INJURY
Eval Unit/Scale*	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL
Sample Size								
Sample Unit*								
User Option 1	SWEET R	SWEET R	TEMPTATI	TEMPTATI	TEMPTATI	TUXEDO	TUXEDO	TUXEDO
User Option 2	7DAE	7DAE	7DAE	7DAE	7DAE	7DAE	7DAE	7DAE
PRM Data Type*	P	P	P	P	P	P	P	P
Trt No	17	18	19	20	21	22	23	24
1	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a
2 A	5 a	2.5 a	0 a	2.5 a	2.5 a	0 a	2.5 a	2.5 a
3 A	5 a	5 a	0 a	2.5 a	2.5 a	0 a	5 a	5 a
4 A	2.5 a	2.5 a	0 a	2.5 a	2.5 a	0 a	0 a	0 a
5 B	2.5 a	2.5 a	0 a	0 a	0 a	0 a	2.5 a	2.5 a
B								
6 B	0 a	0 a	0 a	2.5 a	2.5 a	0 a	0 a	0 a
B								
7 B	2.5 a	2.5 a	0 a	2.5 a	2.5 a	0 a	2.5 a	2.5 a
B								
8 B	5 a	5 a	0 a	2.5 a	3.8 a	0 a	2.5 a	3.8 a
B								
9 B	3.8 a	16.3 a	0 a	1.3 a	1.3 a	0 a	0 a	2.5 a
B								
LSD (P=.05)	7.21	16.98	0	6.08	6.73	0	5.53	6.51
Standard Deviation	4.94	11.64	0	4.17	4.61	0	3.79	4.46
CV	169.43	288.92	0	230.77	237.01	0	227.3	214.17

Means followed by same letter do not significantly differ

### The Ohio State University

Trial Type: RES Protocol No.: NA99  
 Discipline:\* HERBICIDE DED#:\* M2  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES Pr  
 Trial Category:\* TOLER/CROP ROT.

Title: SENSITIVITY OF VEGETABLE CROP  
 HERBICIDES APPLIED THE PREVIOUS YEAR

Business Unit:\* US MIDWEST

Observation No.	25	26	27	28	29	30	31	32					
Evaluation Date	5/23/00	5/23/00	5/23/00	6/1/00	6/1/00	6/1/00	5/23/00	5/23/00					
Crop Code*	AVESA	AVESA	AVESA	SOLTU	SOLTU	SOLTU	MEDSA	MEDSA					
Part/Sub Eval*	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT					
Evaluation Type*	CHLORO	STUNTING	INJURY	CHLORO	STUNTING	INJURY	CHLORO	STUNTING					
Eval Unit/Scale*	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL					
Sample Size													
Sample Unit*													
User Option 1	ARMOR	ARMOR	ARMOR	SUPERIOR	SUPERIOR	SUPERIOR	VERNAL	VERNAL					
User Option 2	7DAE	7DAE	7DAE	7DAE	7DAE	7DAE	7DAE	7DAE					
PRM Data Type*	P	P	P	P	P	P	P	P					
Trt No	Appl Code	Treatment Name*	Form Conc	Fm Ds*	Timing/ Dev Stg	25	26	27	28	29	30	31	32
1		UNTREATED				0 d	0 c	0 d	0 a	0 c	0 c	0 b	0 c
2	A	FIRSTRATE	84 WG			1 bcd	0.8 bc	2 a-d	0 a	10 b	10 b	10 a	23.8 ab
3	A	FIRSTRATE	84 WG			3.5 a	0.8 bc	4 a	0 a	10 b	10 b	7.5 ab	16.3 abc
4	A	FIRSTRATE	84 WG			2.3 a-d	1.3 abc	3 abc	0 a	10 b	10 b	7.5 ab	18.8 ab
5	B	FIRSTRATE	84 WG	5-6 TRIF		1.5 a-d	0.8 bc	1.5 bcd	0 a	8.8 b	8.8 b	7.5 ab	27.5 a
	B	NONIONIC	SL	5-6 TRIF									
	B	UAN 28%	SL	5-6 TRIF									
6	B	FIRSTRATE	84 WG	5-6 TRIF		0.5 cd	0.5 c	1.3 cd	0 a	7.5 b	7.5 b	10 a	27.5 a
	B	NONIONIC	SL	5-6 TRIF									
	B	UAN 28%	SL	5-6 TRIF									
7	B	FIRSTRATE	84 WG	5-6 TRIF		2.5 abc	0.8 bc	2.5 abc	0 a	7.5 b	7.5 b	5 ab	17.5 ab
	B	NONIONIC	SL	5-6 TRIF									
	B	UAN 28%	SL	5-6 TRIF									
8	B	PURSUIT DG	70 WG	5-6 TRIF		3 ab	2.3 ab	3.3 abc	0 a	20 a	20 a	7.5 ab	18.8 ab
	B	NONIONIC	SL	5-6 TRIF									
	B	UAN 28%	SL	5-6 TRIF									
9	B	CLASSIC	25 WG	5-6 TRIF		2.5 abc	2.8 a	3.8 ab	0 a	1.3 c	1.3 c	2.5 ab	10 bc
	B	NONIONIC	SL	5-6 TRIF									
LSD (P=.05)						2.38	1.52	2.25	0	6.07	6.07	7.94	16.6
Standard Deviation						1.63	1.04	1.54	0	4.16	4.16	5.44	11.38
CV						87.51	95.97	65.43	0	49.92	49.92	85.2	63.99

Means followed by same letter do not significantly differ

### The Ohio State University

Trial Type: RES Protocol No.: NA99  
 Discipline:\* HERBICIDE DED#:\* M2  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES Pr  
 Trial Category:\* TOLER/CROP ROT.

Title: SENSITIVITY OF VEGETABLE CROP  
 HERBICIDES APPLIED THE PREVIOUS YEAR

Business Unit:\* US MIDWEST

Observation No.	33	34	35	36	37	38	39	40					
Evaluation Date	5/23/00	6/8/00	6/8/00	6/8/00	6/8/00	6/8/00	6/8/00	6/8/00					
Crop Code*	MEDSA	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS					
Part/Sub Eval*	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT					
Evaluation Type*	INJURY	CHLORO	STUNTING	INJURY	CHLORO	STUNTING	INJURY	CHLORO					
Eval Unit/Scale*	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL					
Sample Size													
Sample Unit*													
User Option 1	VERNAL	A SWEET	A SWEET	A SWEET	KANDY K	KANDY K	KANDY K	SWEET R					
User Option 2	7DAE	14DAE	14DAE	14DAE	14DAE	14DAE	14DAE	14DAE					
PRM Data Type*	P	P	P	P	P	P	P	P					
Trt No	Appl Code	Treatment Name*	Form Conc	Fm Ds*	Timing/ Dev Stg	33	34	35	36	37	38	39	40
1		UNTREATED				0 b	0 a	0 a	0 a	0 a	0 b	0 b	0 a
2	A	FIRSTRATE	84 WG			26.3 a	0 a	0 a	0 a	0 a	0 b	0 b	0 a
3	A	FIRSTRATE	84 WG			20 a	0 a	0 a	0 a	0 a	2.5 b	2.5 b	0 a
4	A	FIRSTRATE	84 WG			22.5 a	0 a	2.5 a	2.5 a	0 a	0 b	0 b	0 a
5	B	FIRSTRATE	84 WG	5-6 TRIF		30 a	0 a	0 a	0 a	0 a	5 ab	5 ab	0 a
	B	NONIONIC	SL	5-6 TRIF									
	B	UAN 28%	SL	5-6 TRIF									
6	B	FIRSTRATE	84 WG	5-6 TRIF		30 a	0 a	2.5 a	2.5 a	0 a	2.5 b	2.5 b	0 a
	B	NONIONIC	SL	5-6 TRIF									
	B	UAN 28%	SL	5-6 TRIF									
7	B	FIRSTRATE	84 WG	5-6 TRIF		18.8 a	0 a	2.5 a	2.5 a	0 a	8.8 a	8.8 a	0 a
	B	NONIONIC	SL	5-6 TRIF									
	B	UAN 28%	SL	5-6 TRIF									
8	B	PURSUIT DG	70 WG	5-6 TRIF		21.3 a	0 a	2.5 a	2.5 a	0 a	8.8 a	8.8 a	0 a
	B	NONIONIC	SL	5-6 TRIF									
	B	UAN 28%	SL	5-6 TRIF									
9	B	CLASSIC	25 WG	5-6 TRIF		15 ab	0 a	5 a	5 a	0 a	2.5 b	2.5 b	0 a
	B	NONIONIC	SL	5-6 TRIF									
LSD (P=.05)						18.58	0	5.53	5.53	0	6.01	6.01	0
Standard Deviation						12.73	0	3.79	3.79	0	4.12	4.12	0
CV						62.36	0	227.3	227.3	0	123.53	123.53	0

Means followed by same letter do not significantly differ

### The Ohio State University

Trial Type: RES Protocol No.: NA99  
 Discipline:\* HERBICIDE DED#:\* M2  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES Pr  
 Trial Category:\* TOLER/CROP ROT.

Title: SENSITIVITY OF VEGETABLE CROP  
 HERBICIDES APPLIED THE PREVIOUS YEAR

Business Unit:\* US MIDWEST

Observation No.	41	42	43	44	45	46	47	48
Evaluation Date	6/8/00	6/8/00	6/8/00	6/8/00	6/8/00	6/8/00	6/8/00	6/8/00
Crop Code*	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part/Sub Eval*	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Evaluation Type*	STUNTING	INJURY	CHLORO	STUNTING	INJURY	CHLORO	STUNTING	INJURY
Eval Unit/Scale*	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL
Sample Size								
Sample Unit*								
User Option 1	SWEET R	SWEET R	TEMPTATI	TEMPTATI	TEMPTATI	TUXEDO	TUXEDO	TUXEDO
User Option 2	14DAE	14DAE	14DAE	14DAE	14DAE	14DAE	14DAE	14DAE
PRM Data Type*	P	P	P	P	P	P	P	P
Trt No	41	42	43	44	45	46	47	48
Appl Code								
Treatment Name*	UNTREATED							
Form Conc								
Fm Ds*								
Timing/ Dev Stg								
1	0 a	0 a	0 a	0 b	0 b	0 a	0 b	0 b
2 A	0 a	0 a	0 a	0 b	0 b	0 a	0 b	0 b
3 A	5 a	5 a	0 a	0 b	0 b	0 a	5 ab	5 ab
4 A	5 a	5 a	0 a	0 b	0 b	0 a	3.8 ab	3.8 ab
5 B	0 a	0 a	0 a	0 b	0 b	0 a	2.5 ab	2.5 ab
B								
B								
6 B	0 a	0 a	0 a	0 b	0 b	0 a	6.3 ab	6.3 ab
B								
B								
7 B	3.8 a	3.8 a	0 a	0 b	0 b	0 a	5 ab	5 ab
B								
B								
8 B	5 a	5 a	0 a	2.5 a	2.5 a	0 a	7.5 a	7.5 a
B								
B								
9 B	0 a	0 a	0 a	0 b	0 b	0 a	5 ab	5 ab
B								
LSD (P=.05)	5.96	5.96	0	2.43	2.43	0	7.01	7.01
Standard Deviation	4.08	4.08	0	1.67	1.67	0	4.81	4.81
CV	195.96	195.96	0	600	600	0	123.56	123.56

Means followed by same letter do not significantly differ

# The Ohio State University

Trial Type: RES Protocol No.: NA99  
 Discipline:\* HERBICIDE DED#:\* M2  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES Pr  
 Trial Category:\* TOLER/CROP ROT.

Title: SENSITIVITY OF VEGETABLE CROP  
 HERBICIDES APPLIED THE PREVIOUS YEAR

Business Unit:\* US MIDWEST

Observation No.	49	50	51	52	53	54	58	59
Evaluation Date	6/8/00	6/8/00	6/8/00	6/8/00	6/8/00	6/8/00	6/22/00	6/22/00
Crop Code*	AVESA	AVESA	AVESA	SOLTU	SOLTU	SOLTU	ZEAMS	ZEAMS
Part/Sub Eval*	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Evaluation Type*	CHLORO	STUNTING	INJURY	CHLORO	STUNTING	INJURY	CHLORO	STUNTING
Eval Unit/Scale*	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL
Sample Size								
Sample Unit*								
User Option 1	ARMOR	ARMOR	ARMOR	SUPERIOR	SUPERIOR	SUPERIOR	A SWEET	A SWEET
User Option 2	14DAE	14DAE	14DAE	14DAE	14DAE	14DAE	28DAE	28DAE
PRM Data Type*	P	P	P	P	P	P	P	P
Trt No	49	50	51	52	53	54	55	56
1	0 a	0 a	0 a	0 a	0 c	0 c	0 a	0 c
2 A	0 a	0 a	0 a	0 a	5 bc	5 bc	0 a	7.5 abc
3 A	0 a	0 a	0 a	0 a	10 bc	10 bc	0 a	10 abc
4 A	0 a	0 a	0 a	0 a	15 b	15 b	0 a	16.3 ab
5 B	0 a	2.5 a	2.5 a	0 a	6.3 bc	6.3 bc	0 a	5 c
B								
B								
6 B	0 a	3.8 a	3.8 a	0 a	8.8 bc	8.8 bc	0 a	17.5 a
B								
B								
7 B	0 a	2.5 a	2.5 a	0 a	11.3 bc	11.3 bc	0 a	17.5 a
B								
B								
8 B	0 a	1.3 a	1.3 a	0 a	41.3 a	41.3 a	0 a	16.3 ab
B								
B								
9 B	0 a	0 a	0 a	0 a	8.8 bc	8.8 bc	0 a	6.3 bc
B								
LSD (P=.05)	0	4.54	4.54	0	13.82	13.82	0	10.25
Standard Deviation	0	3.11	3.11	0	9.47	9.47	0	7.03
CV	0	279.79	279.79	0	80.22	80.22	0	65.7

Means followed by same letter do not significantly differ

# The Ohio State University

Trial Type: RES Protocol No.: NA99  
 Discipline:\* HERBICIDE DED#:\* M2  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES Pr  
 Trial Category:\* TOLER/CROP ROT.

Title: SENSITIVITY OF VEGETABLE CROP  
 HERBICIDES APPLIED THE PREVIOUS YEAR

Business Unit:\* US MIDWEST

Observation No.	60	61	62	63	64	65	66	67					
Evaluation Date	6/22/00	6/22/00	6/22/00	6/22/00	6/22/00	6/22/00	6/22/00	6/22/00					
Crop Code*	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS					
Part/Sub Eval*	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT					
Evaluation Type*	INJURY	CHLORO	STUNTING	INJURY	CHLORO	STUNTING	INJURY	CHLORO					
Eval Unit/Scale*	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL					
Sample Size													
Sample Unit*													
User Option 1	A SWEET	KANDY K	KANDY K	KANDY K	SWEET R	SWEET R	SWEET R	TEMPTATI					
User Option 2	28DAE	28DAE	28DAE	28DAE	28DAE	28DAE	28DAE	28DAE					
PRM Data Type*	P	P	P	P	P	P	P	P					
Trt No	Appl Code	Treatment Name*	Form Conc	Fm Ds*	Timing/ Dev Stg	57	58	59	60	61	62	63	64
1		UNTREATED				0 c	0 a	0 d	0 d	0 a	0 c	0 c	0 a
2	A	FIRSTRATE	84 WG			7.5 abc	0 a	0 d	0 d	0 a	5 abc	5 abc	0 a
3	A	FIRSTRATE	84 WG			10 abc	0 a	7.5 cd	7.5 cd	0 a	11.3 abc	11.3 abc	0 a
4	A	FIRSTRATE	84 WG			16.3 ab	0 a	18.8 ab	18.8 ab	0 a	11.3 abc	11.3 abc	0 a
5	B	FIRSTRATE	84 WG	5-6 TRIF		5 c	0 a	6.3 cd	6.3 cd	0 a	1.3 bc	1.3 bc	0 a
	B	NONIONIC	SL	5-6 TRIF									
	B	UAN 28%	SL	5-6 TRIF									
6	B	FIRSTRATE	84 WG	5-6 TRIF		17.5 a	0 a	13.8 bc	13.8 bc	0 a	7.5 abc	7.5 abc	0 a
	B	NONIONIC	SL	5-6 TRIF									
	B	UAN 28%	SL	5-6 TRIF									
7	B	FIRSTRATE	84 WG	5-6 TRIF		17.5 a	0 a	20 ab	20 ab	0 a	15 a	15 a	0 a
	B	NONIONIC	SL	5-6 TRIF									
	B	UAN 28%	SL	5-6 TRIF									
8	B	PURSUIT DG	70 WG	5-6 TRIF		16.3 ab	0 a	26.3 a	26.3 a	0 a	13.8 ab	13.8 ab	0 a
	B	NONIONIC	SL	5-6 TRIF									
	B	UAN 28%	SL	5-6 TRIF									
9	B	CLASSIC	25 WG	5-6 TRIF		6.3 bc	0 a	11.3 bc	11.3 bc	0 a	5 abc	5 abc	0 a
	B	NONIONIC	SL	5-6 TRIF									
LSD (P=.05)						10.25	0	10.88	10.88	0	13.16	13.16	0
Standard Deviation						7.03	0	7.45	7.45	0	9.01	9.01	0
CV						65.7	0	64.66	64.66	0	115.89	115.89	0

Means followed by same letter do not significantly differ



### The Ohio State University

Trial Type: RES Protocol No.: NA99  
 Discipline:\* HERBICIDE DED#:\* M2  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES Pr  
 Trial Category:\* TOLER/CROP ROT.

Title: SENSITIVITY OF VEGETABLE CROP  
 HERBICIDES APPLIED THE PREVIOUS YEAR

Business Unit:\* US MIDWEST

Observation No.	68	69	70	71	72	73	74	75					
Evaluation Date	6/22/00	6/22/00	6/22/00	6/22/00	6/22/00	6/22/00	6/22/00	6/22/00					
Crop Code*	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	AVESA	AVESA	AVESA					
Part/Sub Eval*	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT					
Evaluation Type*	STUNTING	INJURY	CHLORO	STUNTING	INJURY	CHLORO	STUNTING	INJURY					
Eval Unit/Scale*	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL					
Sample Size													
Sample Unit*													
User Option 1	TEMPTATI	TEMPTATI	TUXEDO	TUXEDO	TUXEDO	ARMOR	ARMOR	ARMOR					
User Option 2	28DAE	28DAE	28DAE	28DAE	28DAE	28DAE	28DAE	28DAE					
PRM Data Type*	P	P	P	P	P	P	P	P					
Trt No	Appl Code	Treatment Name*	Form Conc	Fm Ds*	Timing/ Dev Stg	65	66	67	68	69	70	71	72
1		UNTREATED				0 b	0 b	0 a	0 e	0 e	0 a	0 b	0 b
2	A	FIRSTRATE	84 WG			6.3 ab	6.3 ab	0 a	11.3 bcd	11.3 bcd	0 a	0 b	0 b
3	A	FIRSTRATE	84 WG			13.8 ab	13.8 ab	0 a	7.5 cde	7.5 cde	0 a	0 b	0 b
4	A	FIRSTRATE	84 WG			12.5 ab	12.5 ab	0 a	25 a	25 a	0 a	0 b	0 b
5	B	FIRSTRATE	84 WG	5-6 TRIF		2.5 ab	2.5 ab	0 a	6.3 cde	6.3 cde	0 a	0 b	0 b
	B	NONIONIC	SL	5-6 TRIF									
	B	UAN 28%	SL	5-6 TRIF									
6	B	FIRSTRATE	84 WG	5-6 TRIF		6.3 ab	6.3 ab	0 a	1.3 de	1.3 de	0 a	0 b	0 b
	B	NONIONIC	SL	5-6 TRIF									
	B	UAN 28%	SL	5-6 TRIF									
7	B	FIRSTRATE	84 WG	5-6 TRIF		12.5 ab	12.5 ab	0 a	21.3 ab	21.3 ab	0 a	0 b	0 b
	B	NONIONIC	SL	5-6 TRIF									
	B	UAN 28%	SL	5-6 TRIF									
8	B	PURSUIT DG	70 WG	5-6 TRIF		15 a	15 a	0 a	12.5 bc	12.5 bc	0 a	2.5 a	2.5 a
	B	NONIONIC	SL	5-6 TRIF									
	B	UAN 28%	SL	5-6 TRIF									
9	B	CLASSIC	25 WG	5-6 TRIF		0 b	0 b	0 a	3.8 cde	3.8 cde	0 a	0 b	0 b
	B	NONIONIC	SL	5-6 TRIF									
LSD (P=.05)						14.34	14.34	0	11.18	11.18	0	2.43	2.43
Standard Deviation						9.83	9.83	0	7.66	7.66	0	1.67	1.67
CV						128.65	128.65	0	77.68	77.68	0	600	600

Means followed by same letter do not significantly differ

### The Ohio State University

Trial Type: RES Protocol No.: NA99  
 Discipline:\* HERBICIDE DED#:\* M2  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES Pr  
 Trial Category:\* TOLER/CROP ROT.

Title: SENSITIVITY OF VEGETABLE CROP  
 HERBICIDES APPLIED THE PREVIOUS YEAR

Business Unit:\* US MIDWEST

Observation No.	76	77	78	79	80	81	82	83					
Evaluation Date	6/22/00	6/22/00	6/22/00	6/22/00	6/22/00	6/22/00	7/6/00	7/6/00					
Crop Code*	SOLTU	SOLTU	SOLTU	MEDSA	MEDSA	MEDSA	ZEAMS	ZEAMS					
Part/Sub Eval*	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT					
Evaluation Type*	CHLORO	STUNTING	INJURY	CHLORO	STUNTING	INJURY	CHLORO	STUNTING					
Eval Unit/Scale*	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL					
Sample Size													
Sample Unit*													
User Option 1	SUPERIOR	SUPERIOR	SUPERIOR	VERNAL	VERNAL	VERNAL	A SWEET	A SWEET					
User Option 2	28DAE	28DAE	28DAE	28DAE	28DAE	28DAE	42DAE	42DAE					
PRM Data Type*	P	P	P	P	P	P	P	P					
Trt No	Appl Code	Treatment Name*	Form Conc	Fm Ds*	Timing/ Dev Stg	73	74	75	76	77	78	79	80
1		UNTREATED				0 a	0 e	0 e	0 a	0 c	0 c	0 a	0 c
2	A	FIRSTRATE	84	WG		0 a	3.8 de	3.8 de	0 a	5 c	5 c	0 a	5 bc
3	A	FIRSTRATE	84	WG		0 a	16.3 bc	16.3 bc	0 a	41.3 ab	41.3 ab	0 a	13.8 ab
4	A	FIRSTRATE	84	WG		0 a	25 b	25 b	0 a	55 a	55 a	0 a	13.8 ab
5	B	FIRSTRATE	84	WG	5-6 TRIF	0 a	8.8 cde	8.8 cde	0 a	12.5 bc	12.5 bc	0 a	1.3 c
	B	NONIONIC		SL	5-6 TRIF								
	B	UAN 28%		SL	5-6 TRIF								
6	B	FIRSTRATE	84	WG	5-6 TRIF	0 a	10 cde	10 cde	0 a	20 bc	20 bc	0 a	8.8 abc
	B	NONIONIC		SL	5-6 TRIF								
	B	UAN 28%		SL	5-6 TRIF								
7	B	FIRSTRATE	84	WG	5-6 TRIF	0 a	12.5 cd	12.5 cd	0 a	26.3 abc	26.3 abc	0 a	11.3 abc
	B	NONIONIC		SL	5-6 TRIF								
	B	UAN 28%		SL	5-6 TRIF								
8	B	PURSUIT DG	70	WG	5-6 TRIF	0 a	60 a	60 a	0 a	25 bc	25 bc	0 a	17.5 a
	B	NONIONIC		SL	5-6 TRIF								
	B	UAN 28%		SL	5-6 TRIF								
9	B	CLASSIC	25	WG	5-6 TRIF	0 a	7.5 cde	7.5 cde	0 a	2.5 c	2.5 c	0 a	3.8 bc
	B	NONIONIC		SL	5-6 TRIF								
LSD (P=.05)						0	11.32	11.32	0	29.49	29.49	0	11.66
Standard Deviation						0	7.75	7.75	0	20.2	20.2	0	7.99
CV						0	48.55	48.55	0	96.97	96.97	0	95.87

Means followed by same letter do not significantly differ

### The Ohio State University

Trial Type: RES Protocol No.: NA99  
 Discipline:\* HERBICIDE DED#:\* M2  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES Pr  
 Trial Category:\* TOLER/CROP ROT.

Title: SENSITIVITY OF VEGETABLE CROP  
 HERBICIDES APPLIED THE PREVIOUS YEAR

Business Unit:\* US MIDWEST

Observation No.	84	85	86	87	88	89	90	91					
Evaluation Date	7/6/00	7/6/00	7/6/00	7/6/00	7/6/00	7/6/00	7/6/00	7/6/00					
Crop Code*	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS					
Part/Sub Eval*	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT					
Evaluation Type*	INJURY	CHLORO	STUNTING	INJURY	CHLORO	STUNTING	INJURY	CHLORO					
Eval Unit/Scale*	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL					
Sample Size													
Sample Unit*													
User Option 1	A SWEET	KANDY K	KANDY K	KANDY K	SWEET R	SWEET R	SWEET R	TEMPTATI					
User Option 2	42DAE	42DAE	42DAE	42DAE	42DAE	42DAE	42DAE	42DAE					
PRM Data Type*	P	P	P	P	P	P	P	P					
Trt No	Appl Code	Treatment Name*	Form Conc	Fm Ds*	Timing/ Dev Stg	81	82	83	84	85	86	87	88
1		UNTREATED				0 c	0 a	0 b	0 b	0 a	0 b	0 b	0 a
2	A	FIRSTRATE	84 WG			5 bc	0 a	6.3 b	6.3 b	0 a	3.8 b	3.8 b	0 a
3	A	FIRSTRATE	84 WG			13.8 ab	0 a	17.5 a	17.5 a	0 a	8.8 ab	8.8 ab	0 a
4	A	FIRSTRATE	84 WG			13.8 ab	0 a	17.5 a	17.5 a	0 a	6.3 ab	6.3 ab	0 a
5	B	FIRSTRATE	84 WG	5-6 TRIF		1.3 c	0 a	2.5 b	2.5 b	0 a	1.3 b	1.3 b	0 a
	B	NONIONIC	SL	5-6 TRIF									
	B	UAN 28%	SL	5-6 TRIF									
6	B	FIRSTRATE	84 WG	5-6 TRIF		8.8 abc	0 a	6.3 b	6.3 b	0 a	2.5 b	2.5 b	0 a
	B	NONIONIC	SL	5-6 TRIF									
	B	UAN 28%	SL	5-6 TRIF									
7	B	FIRSTRATE	84 WG	5-6 TRIF		11.3 abc	0 a	16.3 a	16.3 a	0 a	7.5 ab	7.5 ab	0 a
	B	NONIONIC	SL	5-6 TRIF									
	B	UAN 28%	SL	5-6 TRIF									
8	B	PURSUIT DG	70 WG	5-6 TRIF		17.5 a	0 a	17.5 a	17.5 a	0 a	15 a	15 a	0 a
	B	NONIONIC	SL	5-6 TRIF									
	B	UAN 28%	SL	5-6 TRIF									
9	B	CLASSIC	25 WG	5-6 TRIF		3.8 bc	0 a	5 b	5 b	0 a	6.3 ab	5 b	0 a
	B	NONIONIC	SL	5-6 TRIF									
LSD (P=.05)						11.66	0	9.36	9.36	0	9.33	8.81	0
Standard Deviation						7.99	0	6.41	6.41	0	6.39	6.04	0
CV						95.87	0	65.05	65.05	0	112.25	108.69	0

Means followed by same letter do not significantly differ

### The Ohio State University

Trial Type: RES Protocol No.: NA99  
 Discipline:\* HERBICIDE DED#:\* M2  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES Pr  
 Trial Category:\* TOLER/CROP ROT.

Title: SENSITIVITY OF VEGETABLE CROP  
 HERBICIDES APPLIED THE PREVIOUS YEAR

Business Unit:\* US MIDWEST

Observation No.	92	93	94	95	96	97	98	99					
Evaluation Date	7/6/00	7/6/00	7/6/00	7/6/00	7/6/00	6/29/00	6/29/00	6/28/00					
Crop Code*	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	AVESA	AVESA	AVESA					
Part/Sub Eval*	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT					
Evaluation Type*	STUNTING	INJURY	CHLORO	STUNTING	INJURY	CHLORO	STUNTING	INJURY					
Eval Unit/Scale*	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL					
Sample Size													
Sample Unit*													
User Option 1	TEMPTATI	TEMPTATI	TUXEDO	TUXEDO	TUXEDO	ARMOR	ARMOR	ARMOR					
User Option 2	42DAE	42DAE	42DAE	42DAE	42DAE	42DAE	42DAE	42DAE					
PRM Data Type*	P	P	P	P	P	P	P	P					
Trt No	Appl Code	Treatment Name*	Form Conc	Fm Ds*	Timing/ Dev Stg	89	90	91	92	93	94	95	96
1		UNTREATED				0 d	0 d	0 a	0 d	0 d	0 a	0 b	0 b
2	A	FIRSTRATE	84 WG			8.8 a-d	8.8 a-d	0 a	7.5 a-d	7.5 a-d	0 a	0 b	0 b
3	A	FIRSTRATE	84 WG			13.8 a	13.8 a	0 a	11.3 abc	11.3 abc	0 a	0 b	0 b
4	A	FIRSTRATE	84 WG			12.5 ab	12.5 ab	0 a	11.3 abc	11.3 abc	0 a	0 b	0 b
5	B	FIRSTRATE	84 WG	5-6 TRIF		3.8 bcd	3.8 bcd	0 a	2.5 cd	2.5 cd	0 a	0 b	0 b
	B	NONIONIC	SL	5-6 TRIF									
	B	UAN 28%	SL	5-6 TRIF									
6	B	FIRSTRATE	84 WG	5-6 TRIF		10 abc	10 abc	0 a	6.3 a-d	6.3 a-d	0 a	0 b	0 b
	B	NONIONIC	SL	5-6 TRIF									
	B	UAN 28%	SL	5-6 TRIF									
7	B	FIRSTRATE	84 WG	5-6 TRIF		12.5 ab	12.5 ab	0 a	15 ab	15 ab	0 a	1.3 a	1.3 a
	B	NONIONIC	SL	5-6 TRIF									
	B	UAN 28%	SL	5-6 TRIF									
8	B	PURSUIT DG	70 WG	5-6 TRIF		17.5 a	17.5 a	0 a	16.3 a	16.3 a	0 a	0 b	0 b
	B	NONIONIC	SL	5-6 TRIF									
	B	UAN 28%	SL	5-6 TRIF									
9	B	CLASSIC	25 WG	5-6 TRIF		1.3 cd	1.3 cd	0 a	5 bcd	5 bcd	0 a	0 b	0 b
	B	NONIONIC	SL	5-6 TRIF									
LSD (P=.05)						9.6	9.6	0	10.19	10.19	0	1.22	1.22
Standard Deviation						6.58	6.58	0	6.98	6.98	0	0.83	0.83
CV						74.02	74.02	0	83.77	83.77	0	600	600

Means followed by same letter do not significantly differ

### The Ohio State University

Trial Type: RES Protocol No.: NA99  
 Discipline:\* HERBICIDE DED#:\* M2  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES Pr  
 Trial Category:\* TOLER/CROP ROT.

Title: SENSITIVITY OF VEGETABLE CROP  
 HERBICIDES APPLIED THE PREVIOUS YEAR

Business Unit:\* US MIDWEST

Observation No.	100	101	102	110					
Evaluation Date	6/29/00	6/29/00	6/29/00						
Crop Code*	SOLTU	SOLTU	SOLTU	SOLTU					
Part/Sub Eval*	PLANT	PLANT	PLANT	TUBER					
Evaluation Type*	CHLORO	STUNTING	INJURY	YIELD					
Eval Unit/Scale*	%VISUAL	%VISUAL	%VISUAL	LBS/2ROW					
Sample Size				1					
Sample Unit*				PLOT					
User Option 1	SUPERIOR	SUPERIOR	SUPERIOR	>3.25"					
User Option 2	42DAE	42DAE	42DAE						
PRM Data Type*	P	P	P	P					
Trt No	Appl Code	Treatment Name*	Form Conc	Fm Ds*	Timing/ Dev Stg	97	98	99	100
1		UNTREATED				0 a	0 e	0 e	10.525 a
2	A	FIRSTRATE	84	WG		0 a	5 cde	5 cde	16.5 a
3	A	FIRSTRATE	84	WG		0 a	11.3 bc	11.3 bc	16.212 a
4	A	FIRSTRATE	84	WG		0 a	17.5 b	17.5 b	12.137 a
5	B	FIRSTRATE	84	WG	5-6 TRIF	0 a	7.5 cde	7.5 cde	11.263 a
	B	NONIONIC		SL	5-6 TRIF				
	B	UAN 28%		SL	5-6 TRIF				
6	B	FIRSTRATE	84	WG	5-6 TRIF	0 a	8.8 cd	8.8 cd	13.4 a
	B	NONIONIC		SL	5-6 TRIF				
	B	UAN 28%		SL	5-6 TRIF				
7	B	FIRSTRATE	84	WG	5-6 TRIF	0 a	12.5 bc	12.5 bc	13.4 a
	B	NONIONIC		SL	5-6 TRIF				
	B	UAN 28%		SL	5-6 TRIF				
8	B	PURSUIT DG	70	WG	5-6 TRIF	0 a	56.3 a	56.3 a	6.113 a
	B	NONIONIC		SL	5-6 TRIF				
	B	UAN 28%		SL	5-6 TRIF				
9	B	CLASSIC	25	WG	5-6 TRIF	0 a	2.5 de	2.5 de	12 a
	B	NONIONIC		SL	5-6 TRIF				
LSD (P=.05)						0	8.54	8.54	13.8882
Standard Deviation						0	5.85	5.85	9.5159
CV						0	43.41	43.41	76.78

Means followed by same letter do not significantly differ

# The Ohio State University

## HERBICIDE TEST ON GREEN AND DRY BULB ONIONS

Trial ID: ONION1CVLLE-00      Study Dir.: DR.DOUGLAS DOOHAN & 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: THE OHIO STATE UNIVERSITY  
 Postal Code: 44691

### TRIAL LOCATION

City: CELERYVILLE ;PO@ WILLARD  
 State/Prov.: OHIO      Trial Reliability: RELIABLE  
 Postal Code: 44890      Initiation Date: May-05-00  
 Country: USA  
 Directions: SR 224 WEST TO WILLARD;THEN SR 101 SOUTH 3 MILES TO MUCK CROPS BRANCH

### COOPERATOR/LANDOWNER

Cooperator: BILL EVANS,MGR.      Country: USA  
 Org: MUCK CROPS BRANCH (OARDC)      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 ASSESS VARIOUS HERBICIDES AND COMBINATIONS FOR WEED CONTROL AND INJURY.WITHIN EACH TREATMENT MAY BE SEVERAL APPLICATION TIMINGS.

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	AMAXX	PIGWEEED SPECIES	AMARANTH SPP.
2	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3	POLPY	SMARTWEED, PENNSYLVANIA	POLYGONUM PENNSYLVANICUM L.
4	POROL	PURSLANE, COMMON	PORTULACA OLERACEA L.

Crop 1: ALLCE DRY BULB ONION      Variety: BURGESS  
 Planting Date: May-05-00      Planting Method: CONVENTIONAL SEEDER  
 Rate: 12 SEED/FT.      Depth: 0.50 IN      Perennial Age: 0 0  
 Row Spacing: 30 IN      Seed Bed: CONVENTIONAL  
 Soil Temperature: 65 F      Soil Moisture: MOIST      Emergence Date: May-20-00

GREEN ONION      Variety: ISHIKURA  
 Planting Date: May-05-00      Planting Method: CONVENTIONAL SEEDER  
 Rate: 12 SEED/FT.      Depth: 0.50 IN      Perennial Age: 0 0  
 Row Spacing: 30 IN      Seed Bed: CONVENTIONAL  
 Soil Temperature: 65 F      Soil Moisture: MOIST      Emergence Date: May-20-00

**SITE AND DESIGN**

Plot Width, Unit: 6 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: 6/7/00:RONILAN & AMBUSH @ 16 OZ./A  
 6/23/00:ALIETTE(4#/A)+AMBUSH (16OZ/A)+ROVRAL @(2#/A)

**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
Application Date:	05/05/2000	05/26/2000	06/19/2000
Time of Day:	11:30AM	10:30AM	10:00AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	LOOP/POST	2-LEAF
Applic. Placement:	BDCST	BDCST	BDCST
Air Temp., Unit:	69 F	61 F	48 F
% Relative Humidity:	81	72	99
Wind Velocity, Unit:	6 MPH	2 MPH	2 MPH
Dew Presence (Y/N):	N	N	N
Water Hardness:	SOFT	SOFT	SOFT
Soil Temp., Unit:	65 F	64 F	63 F
Soil Moisture:	MOIST	MOIST	MOIST
% Cloud Cover:	65	70	50

**CROP STAGE AT EACH APPLICATION**

	A	B	C
Crop 1 Code, Stage:	ALLCE	ALLCE	ALLCE
Stage Scale:	NONE	LOOP	2 LEAF
Height, Unit:	0 0	3 IN	5 IN
	GRN.ONION	GRN.ONION	GRN.ONION
Stage Scale:	NONE	LOOP	2 LEAF
Height, Unit:	0 0	3 IN	5 IN

**WEED STAGE AT EACH APPLICATION**

	A	B	C
Weed 1 Code, Stage:	AMAXX .	AMAXX	AMAXX
Stage Scale:	.	<1"	1-3"
Density, Unit:	. .	MED HIGH	MED HIGH
Weed 2 Code, Stage:	CHEAL	CHEAL	CHEAL
Stage Scale:	.	<1"	1-3"
Density, Unit:	. .	M H	M H
Weed 3 Code, Stage:	POLPY	POLPY	POLPY
Stage Scale:	.	<1"	1-3"
Density, Unit:	. .	M H	M H
Weed 4 Code, Stage:	POROL	POROL	POROL
Stage Scale:	.		
Density, Unit:	. .		

## APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	35 PSI
Nozzle Type:	FFAN
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.:	NONE
Hours to Incorp.:	0
Incorp. Depth, Unit:	0 0
Carrier:	WATER
Spray Volume, Unit:	20 GPA
Propellant:	CO2
Tank Mix (Y/N):	N

## The Ohio State University

### HERBICIDE TEST ON GREEN AND DRY BULB ONIONS

Trial ID: ONION1CVLLE-00      Study Dir.: DR.DOUGLAS DOOHAN & T.KOCH  
 Location: CELERYVILLE,OHIO      Investigator: Dr. Douglas J. Doohan

#### Trial Comments

THIS IS A SPLIT PLOT DESIGN: HALF WILL BE DRY BULB & THE OTHER WILL BE GREEN BULBS.  
 MAIN PLOT = HERBICIDE; SUB PLOT = DRY BULB OR GREEN ONION.  
 PLOT SIZE = 7'X 20'.  
 SPRAY ALL BUT A 1' STRIP ON THE LEFT HAND EDGE OF THE PLOT.  
 RATINGS: 7,21 & 42 DAYS AFTER EACH TREATMENT.

#### ONION GROWTH STAGES AT SPRAY DATES AND WEEDS PRESENT--

MAY-5-00:      PRE - NO WEEDS PRESENT  
 MAY-26-00: LOOP - PIGWEED, PURSLANE, LAMBS QUARTER, CRABGRASS, & SMARTWEED  
                     PRESENT; EACH 0-1" TALL  
 JUN-19-00:      2 LEAF - PIGWEED, PURSLANE, LAMBS QUARTER, CRABGRASS, & SMARTWEED  
                     PRESENT; EACH 1-3" TALL  
 NOT APPLIED      30 PHI - NOT APPLIED

WE INITIATED ANOTHER TRIAL USING ONLY GREEN ONIONS BECAUSE THE 2-LEAF APPLICATION WAS PUT ON TOO LATE AND THE CONTROL COULD HAVE BEEN BETTER

APPLICATION EQUIPMENT WAS THE SAME FOR ALL TREATMENTS



# The Ohio State University

## HERBICIDE TEST ON GREEN AND DRY BULB ONIONS

Trial ID: ONION1CVLLE-00 Study Dir.: DR. D. J. DOOHAN &amp; T.KOCH

Location: CELERYVILLE,OHIO Investigator: Dr. Douglas J. Doohan

Weed Code								CHEAL	AMAXX	POROL
Crop Code								ALLCE	ALLCE	ALLCE
Part Rated								P	P	P
Rating Data Type								CONTROL	CONTROL	CONTROL
Rating Unit								%	%	%
Rating Date								5/15/00	5/15/00	5/15/00
# Subsamples, Dec.								0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3
1	WEEDY CONTROL							0 c	0 e	0 c
2	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	86 a	91 a	83 ab
	GOAL;	2	EC	0.19	PT/A	LOOP	B			
	GOAL;	2	EC	0.19	PT/A	2-LF	C			
3	PCC 140;	1.5	EC	1	PT/A	LOOP-2LF	C	0 c	0 e	0 c
4	GOAL;	2	EC	0.19	PT/A	LOOP	B	0 c	0 e	0 c
	GOAL +	2	EC	0.19	PT/A	2-LF	C			
	POAST	1.5	EC	1.5	PT/A	2-LF	C			
5	PROWL	4	EC	4.85	PT/A	PRE	A	89 a	90 ab	88 a
	PROWL,AS NEEDED	4	EC	4.85	PT/A	POST	B			
6	DUAL MAGNUM	7.62	EC	1.33	PT/A	LOOP	B	0 c	0 e	0 c
7	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	81 a	83 cd	83 ab
	DUAL MAGNUM	7.62	EC	1.33	PT/A	2-LF	C			
8	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	63 b	85 bcd	85 ab
	PCC 140	1.5	EC	0.66	PT/A	POST TBD	C			
9	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	84 a	83 cd	84 ab
	PCC 140	1.5	EC	1	PT/A	POST TBD	C			
10	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	84 a	85 bcd	85 ab
	PCC 140	1.5	EC	1.33	PT/A	POST TBD	C			
11	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	83 a	81 d	83 ab
	PCC 140	1.5	EC	2.66	PT/A	POST TBD	C			
12	NORTRON	4	EC	1.62	PT/A	PRE	A	88 a	88 abc	87 a
13	FLUFENACET	60	DF	1.25	LB/A	PRE	A	86 a	88 abc	89 a
14	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	88 a	91 a	79 b
	GOAL	2	EC	0.19	PT/A	2-LF	C			
	POAST	1.5	EC	1.5	PT/A	2-LF	C			
	DUAL MAGNUM	7.62	EC	1.33	PT/A	2-LF	C			
LSD (P=.05)								16.1	5.9	6.4
Standard Deviation								11.2	4.1	4.5
CV								18.95	6.68	7.48

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

# The Ohio State University

## HERBICIDE TEST ON GREEN AND DRY BULB ONIONS

Trial ID: ONION1CVLLE-00 Study Dir.: DR. D. J. DOOHAN &amp; T.KOCH

Location: CELERYVILLE,OHIO Investigator: Dr. Douglas J. Doohan

Weed Code							POLPY	CHEAL	AMAXX	
Crop Code							ALLCE	ALLCE	ALLCE	
Part Rated							P	P	P	
Rating Data Type							CONTROL	CONTROL	CONTROL	
Rating Unit							%	%	%	
Rating Date							5/15/00	5/26/00	5/26/00	
# Subsamples, Dec.							0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	4	5	6
1	WEEDY CONTROL							0 e	0 b	0 c
2	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	93 a	45 ab	46 abc
	GOAL;	2	EC	0.19	PT/A	LOOP	B			
	GOAL;	2	EC	0.19	PT/A	2-LF	C			
3	PCC 140;	1.5	EC	1	PT/A	LOOP-2LF	C	0 e	0 b	0 c
4	GOAL;	2	EC	0.19	PT/A	LOOP	B	0 e	0 b	0 c
	GOAL +	2	EC	0.19	PT/A	2-LF	C			
	POAST	1.5	EC	1.5	PT/A	2-LF	C			
5	PROWL	4	EC	4.85	PT/A	PRE	A	89 abc	68 a	85 a
	PROWL,AS NEEDED	4	EC	4.85	PT/A	POST	B			
6	DUAL MAGNUM	7.62	EC	1.33	PT/A	LOOP	B	0 e	0 b	0 c
7	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	81 d	64 a	64 ab
	DUAL MAGNUM	7.62	EC	1.33	PT/A	2-LF	C			
8	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	85 bcd	41 ab	41 abc
	PCC 140	1.5	EC	0.66	PT/A	POST TBD	C			
9	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	84 cd	21 ab	21 bc
	PCC 140	1.5	EC	1	PT/A	POST TBD	C			
10	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	83 cd	23 ab	40 abc
	PCC 140	1.5	EC	1.33	PT/A	POST TBD	C			
11	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	84 cd	0 b	19 bc
	PCC 140	1.5	EC	2.66	PT/A	POST TBD	C			
12	NORTRON	4	EC	1.62	PT/A	PRE	A	91 ab	69 a	76 a
13	FLUFENACET	60	DF	1.25	LB/A	PRE	A	95 a	68 a	20 bc
14	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	91 ab	45 ab	23 bc
	GOAL	2	EC	0.19	PT/A	2-LF	C			
	POAST	1.5	EC	1.5	PT/A	2-LF	C			
	DUAL MAGNUM	7.62	EC	1.33	PT/A	2-LF	C			
LSD (P=.05)							6.7	48.4	46.4	
Standard Deviation							4.7	33.9	32.5	
CV							7.46	107.26	104.47	

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

# The Ohio State University

## HERBICIDE TEST ON GREEN AND DRY BULB ONIONS

Trial ID: ONION1CVLLE-00 Study Dir.: DR. D. J. DOOHAN &amp; T.KOCH

Location: CELERYVILLE,OHIO Investigator: Dr. Douglas J. Doohan

Weed Code								POROL	POLPY	
Crop Code								ALLCE	ALLCE	ALLCE
Part Rated								P	P	C
Rating Data Type								CONTROL	CONTROL	INJURY
Rating Unit								%	%	%
Rating Date								5/26/00	5/26/00	6/6/00
# Subsamples, Dec.								0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	7	8	9
1	WEEDY CONTROL							0 b	0 d	0 c
2	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	41 a	46 a-d	10 a
	GOAL;	2	EC	0.19	PT/A	LOOP	B			
	GOAL;	2	EC	0.19	PT/A	2-LF	C			
3	PCC 140;	1.5	EC	1	PT/A	LOOP-2LF	C	0 b	0 d	0 c
4	GOAL;	2	EC	0.19	PT/A	LOOP	B	0 b	0 d	0 c
	GOAL +	2	EC	0.19	PT/A	2-LF	C			
	POAST	1.5	EC	1.5	PT/A	2-LF	C			
5	PROWL	4	EC	4.85	PT/A	PRE	A	68 a	85 a	0 c
	PROWL,AS NEEDED	4	EC	4.85	PT/A	POST	B			
6	DUAL MAGNUM	7.62	EC	1.33	PT/A	LOOP	B	0 b	0 d	0 c
7	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	61 a	63 abc	0 c
	DUAL MAGNUM	7.62	EC	1.33	PT/A	2-LF	C			
8	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	41 a	41 a-d	0 c
	PCC 140	1.5	EC	0.66	PT/A	POST TBD	C			
9	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	41 a	21 bcd	0 c
	PCC 140	1.5	EC	1	PT/A	POST TBD	C			
10	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	43 a	40 a-d	5 b
	PCC 140	1.5	EC	1.33	PT/A	POST TBD	C			
11	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	41 a	19 cd	5 b
	PCC 140	1.5	EC	2.66	PT/A	POST TBD	C			
12	NORTRON	4	EC	1.62	PT/A	PRE	A	63 a	69 ab	0 c
13	FLUFENACET	60	DF	1.25	LB/A	PRE	A	64 a	68 ab	0 c
14	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	40 a	23 bcd	0 c
	GOAL	2	EC	0.19	PT/A	2-LF	C			
	POAST	1.5	EC	1.5	PT/A	2-LF	C			
	DUAL MAGNUM	7.62	EC	1.33	PT/A	2-LF	C			
LSD (P=.05)								39.8	48.5	0
Standard Deviation								27.9	34	0
CV								77.61	100.42	0

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

# The Ohio State University

## HERBICIDE TEST ON GREEN AND DRY BULB ONIONS

Trial ID: ONION1CVLLE-00 Study Dir.: DR. D. J. DOOHAN & T.KOCH  
 Location: CELERYVILLE,OHIO Investigator: Dr. Douglas J. Doohan

Weed Code							CHEAL	AMAXX	POROL	
Crop Code							ALLCE	ALLCE	ALLCE	
Part Rated							P	P	P	
Rating Data Type							CONTROL	CONTROL	CONTROL	
Rating Unit							%	%	%	
Rating Date							6/6/00	6/6/00	6/6/00	
# Subsamples, Dec.							0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	10	11	12
1	WEEDY CONTROL							0 d	0 f	0 e
2	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	90 ab	92 a	96 a
	GOAL;	2	EC	0.19	PT/A	LOOP	B			
	GOAL;	2	EC	0.19	PT/A	2-LF	C			
3	PCC 140;	1.5	EC	1	PT/A	LOOP-2LF	C	73 c	54 e	92 ab
4	GOAL;	2	EC	0.19	PT/A	LOOP	B	91 ab	84 abc	96 a
	GOAL +	2	EC	0.19	PT/A	2-LF	C			
	POAST	1.5	EC	1.5	PT/A	2-LF	C			
5	PROWL	4	EC	4.85	PT/A	PRE	A	97 a	88 ab	95 ab
	PROWL,AS NEEDED	4	EC	4.85	PT/A	POST	B			
6	DUAL MAGNUM	7.62	EC	1.33	PT/A	LOOP	B	84 abc	69 cde	83 a-d
7	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	76 bc	81 abc	63 d
	DUAL MAGNUM	7.62	EC	1.33	PT/A	2-LF	C			
8	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	85 abc	74 bcd	91 abc
	PCC 140	1.5	EC	0.66	PT/A	POST TBD	C			
9	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	69 c	76 abc	98 a
	PCC 140	1.5	EC	1	PT/A	POST TBD	C			
10	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	84 abc	80 abc	98 a
	PCC 140	1.5	EC	1.33	PT/A	POST TBD	C			
11	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	83 abc	88 ab	77 a-d
	PCC 140	1.5	EC	2.66	PT/A	POST TBD	C			
12	NORTRON	4	EC	1.62	PT/A	PRE	A	76 bc	59 de	69 cd
13	FLUFENACET	60	DF	1.25	LB/A	PRE	A	83 abc	76 abc	82 a-d
14	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	80 abc	73 bcd	73 bcd
	GOAL	2	EC	0.19	PT/A	2-LF	C			
	POAST	1.5	EC	1.5	PT/A	2-LF	C			
	DUAL MAGNUM	7.62	EC	1.33	PT/A	2-LF	C			
LSD (P=.05)							17.4	16.2	22.8	
Standard Deviation							12.2	11.3	15.9	
CV							15.96	15.96	20.1	

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

# The Ohio State University

## HERBICIDE TEST ON GREEN AND DRY BULB ONIONS

Trial ID: ONION1CVLLE-00 Study Dir.: DR. D. J. DOOHAN &amp; T.KOCH

Location: CELERYVILLE,OHIO Investigator: Dr. Douglas J. Doohan

Weed Code							POLPY		CHEAL	
Crop Code							ALLCE	ALLCE	ALLCE	
Part Rated							P	C	P	
Rating Data Type							CONTROL	INJURY	CONTROL	
Rating Unit							%	%	%	
Rating Date							6/6/00	6/6/00	6/16/00	
# Subsamples, Dec.							0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	13	14	15
1	WEEDY CONTROL							0 e	0 b	0 d
2	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	95 a	10 a	88 ab
	GOAL;	2	EC	0.19	PT/A	LOOP	B			
	GOAL;	2	EC	0.19	PT/A	2-LF	C			
3	PCC 140;	1.5	EC	1	PT/A	LOOP-2LF	C	94 ab	0 b	0 d
4	GOAL;	2	EC	0.19	PT/A	LOOP	B	93 ab	0 b	83 abc
	GOAL +	2	EC	0.19	PT/A	2-LF	C			
	POAST	1.5	EC	1.5	PT/A	2-LF	C			
5	PROWL	4	EC	4.85	PT/A	PRE	A	92 ab	0 b	93 a
	PROWL,AS NEEDED	4	EC	4.85	PT/A	POST	B			
6	DUAL MAGNUM	7.62	EC	1.33	PT/A	LOOP	B	85 a-d	0 b	89 ab
7	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	79 cd	0 b	84 abc
	DUAL MAGNUM	7.62	EC	1.33	PT/A	2-LF	C			
8	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	84 a-d	0 b	78 abc
	PCC 140	1.5	EC	0.66	PT/A	POST TBD	C			
9	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	93 ab	0 b	73 bc
	PCC 140	1.5	EC	1	PT/A	POST TBD	C			
10	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	85 a-d	10 a	80 abc
	PCC 140	1.5	EC	1.33	PT/A	POST TBD	C			
11	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	91 abc	10 a	66 c
	PCC 140	1.5	EC	2.66	PT/A	POST TBD	C			
12	NORTRON	4	EC	1.62	PT/A	PRE	A	76 d	0 b	70 bc
13	FLUFENACET	60	DF	1.25	LB/A	PRE	A	76 d	0 b	84 abc
14	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	81 bcd	0 b	81 abc
	GOAL	2	EC	0.19	PT/A	2-LF	C			
	POAST	1.5	EC	1.5	PT/A	2-LF	C			
	DUAL MAGNUM	7.62	EC	1.33	PT/A	2-LF	C			
LSD (P=.05)							13.2	0	18.8	
Standard Deviation							9.2	0	13.2	
CV							11.49	0	19.06	

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

# The Ohio State University

## HERBICIDE TEST ON GREEN AND DRY BULB ONIONS

Trial ID: ONION1CVLLE-00 Study Dir.: DR. D. J. DOOHAN & T.KOCH  
 Location: CELERYVILLE,OHIO Investigator: Dr. Douglas J. Doohan

Weed Code							AMAXX	POROL	POLPY	
Crop Code							ALLCE	ALLCE	ALLCE	
Part Rated							P	P	P	
Rating Data Type							CONTROL	CONTROL	CONTROL	
Rating Unit							%	%	%	
Rating Date							6/16/00	6/16/00	6/16/00	
# Subsamples, Dec.							0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	16	17	18
1	WEEDY CONTROL							0 f	0 g	0 c
2	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	83 ab	81 abc	64 ab
	GOAL;	2	EC	0.19	PT/A	LOOP	B			
	GOAL;	2	EC	0.19	PT/A	2-LF	C			
3	PCC 140;	1.5	EC	1	PT/A	LOOP-2LF	C	15 e	78 bc	65 ab
4	GOAL;	2	EC	0.19	PT/A	LOOP	B	66 cd	78 bc	79 ab
	GOAL +	2	EC	0.19	PT/A	2-LF	C			
	POAST	1.5	EC	1.5	PT/A	2-LF	C			
5	PROWL	4	EC	4.85	PT/A	PRE	A	96 a	93 a	95 a
	PROWL,AS NEEDED	4	EC	4.85	PT/A	POST	B			
6	DUAL MAGNUM	7.62	EC	1.33	PT/A	LOOP	B	74 bc	58 de	84 ab
7	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	73 bcd	45 e	84 ab
	DUAL MAGNUM	7.62	EC	1.33	PT/A	2-LF	C			
8	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	65 cd	81 abc	81 ab
	PCC 140	1.5	EC	0.66	PT/A	POST TBD	C			
9	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	69 cd	84 ab	79 ab
	PCC 140	1.5	EC	1	PT/A	POST TBD	C			
10	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	60 d	86 ab	63 b
	PCC 140	1.5	EC	1.33	PT/A	POST TBD	C			
11	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	76 bc	86 ab	86 ab
	PCC 140	1.5	EC	2.66	PT/A	POST TBD	C			
12	NORTRON	4	EC	1.62	PT/A	PRE	A	18 e	25 f	71 ab
13	FLUFENACET	60	DF	1.25	LB/A	PRE	A	74 bc	46 e	83 ab
14	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	78 bc	69 cd	77 ab
	GOAL	2	EC	0.19	PT/A	2-LF	C			
	POAST	1.5	EC	1.5	PT/A	2-LF	C			
	DUAL MAGNUM	7.62	EC	1.33	PT/A	2-LF	C			
LSD (P=.05)							13.5	13.2	31.2	
Standard Deviation							9.5	9.3	21.9	
CV							15.67	14.28	30.32	

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

# The Ohio State University

## HERBICIDE TEST ON GREEN AND DRY BULB ONIONS

Trial ID: ONION1CVLLE-00 Study Dir.: DR. D. J. DOOHAN & T.KOCH  
 Location: CELERYVILLE,OHIO Investigator: Dr. Douglas J. Doohan

Weed Code							CHEAL	AMAXX	POROL	
Crop Code							ALLCE	ALLCE	ALLCE	
Part Rated							P	P	P	
Rating Data Type							CONTROL	CONTROL	CONTROL	
Rating Unit							%	%	%	
Rating Date							6/26/00	6/26/00	6/26/00	
# Subsamples, Dec.							0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	19	20	21
1	WEEDY CONTROL							0 f	0 d	0 f
2	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	94 ab	94 a	93 a
	GOAL;	2	EC	0.19	PT/A	LOOP	B			
	GOAL;	2	EC	0.19	PT/A	2-LF	C			
3	PCC 140;	1.5	EC	1	PT/A	LOOP-2LF	C	5 f	13 c	68 c
4	GOAL;	2	EC	0.19	PT/A	LOOP	B	83 e	69 b	78 b
	GOAL +	2	EC	0.19	PT/A	2-LF	C			
	POAST	1.5	EC	1.5	PT/A	2-LF	C			
5	PROWL	4	EC	4.85	PT/A	PRE	A	95 a	95 a	98 a
	PROWL,AS NEEDED	4	EC	4.85	PT/A	POST	B			
6	DUAL MAGNUM	7.62	EC	1.33	PT/A	LOOP	B	88 cde	73 b	69 bc
7	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	93 abc	85 a	76 bc
	DUAL MAGNUM	7.62	EC	1.33	PT/A	2-LF	C			
8	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	85 de	89 a	68 c
	PCC 140	1.5	EC	0.66	PT/A	POST TBD	C			
9	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	93 abc	95 a	95 a
	PCC 140	1.5	EC	1	PT/A	POST TBD	C			
10	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	90 a-d	97 a	95 a
	PCC 140	1.5	EC	1.33	PT/A	POST TBD	C			
11	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	89 bcd	96 a	96 a
	PCC 140	1.5	EC	2.66	PT/A	POST TBD	C			
12	NORTRON	4	EC	1.62	PT/A	PRE	A	88 cde	24 c	25 e
13	FLUFENACET	60	DF	1.25	LB/A	PRE	A	88 cde	64 b	51 d
14	DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	88 cde	94 a	18 e
	GOAL	2	EC	0.19	PT/A	2-LF	C			
	POAST	1.5	EC	1.5	PT/A	2-LF	C			
	DUAL MAGNUM	7.62	EC	1.33	PT/A	2-LF	C			
LSD (P=.05)							5.3	12.4	9.3	
Standard Deviation							3.7	8.7	6.5	
CV							4.83	12.31	9.83	

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

# The Ohio State University

## HERBICIDE TEST ON GREEN AND DRY BULB ONIONS

Trial ID: ONION1CVLLE-00 Study Dir.: DR. D. J. DOOHAN & T.KOCH  
 Location: CELERYVILLE,OHIO Investigator: Dr. Douglas J. Doohan

Weed Code								POLPY
Crop Code								ALLCE
Part Rated								P
Rating Data Type								CONTROL
Rating Unit								%
Rating Date								6/26/00
# Subsamples, Dec.								0
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	
	1 WEEDY CONTROL							0 f
	2 DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	97 a
	GOAL;	2	EC	0.19	PT/A	LOOP	B	
	GOAL;	2	EC	0.19	PT/A	2-LF	C	
	3 PCC 140;	1.5	EC	1	PT/A	LOOP-2LF	C	88 c
	4 GOAL;	2	EC	0.19	PT/A	LOOP	B	86 cd
	GOAL +	2	EC	0.19	PT/A	2-LF	C	
	POAST	1.5	EC	1.5	PT/A	2-LF	C	
	5 PROWL	4	EC	4.85	PT/A	PRE	A	96 ab
	PROWL,AS NEEDED	4	EC	4.85	PT/A	POST	B	
	6 DUAL MAGNUM	7.62	EC	1.33	PT/A	LOOP	B	83 d
	7 DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	84 cd
	DUAL MAGNUM	7.62	EC	1.33	PT/A	2-LF	C	
	8 DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	88 c
	PCC 140	1.5	EC	0.66	PT/A	POST TBD	C	
	9 DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	93 b
	PCC 140	1.5	EC	1	PT/A	POST TBD	C	
	10 DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	94 ab
	PCC 140	1.5	EC	1.33	PT/A	POST TBD	C	
	11 DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	92 b
	PCC 140	1.5	EC	2.66	PT/A	POST TBD	C	
	12 NORTRON	4	EC	1.62	PT/A	PRE	A	73 e
	13 FLUFENACET	60	DF	1.25	LB/A	PRE	A	84 cd
	14 DUAL MAGNUM;	7.62	EC	1.33	PT/A	PRE	A	94 ab
	GOAL	2	EC	0.19	PT/A	2-LF	C	
	POAST	1.5	EC	1.5	PT/A	2-LF	C	
	DUAL MAGNUM	7.62	EC	1.33	PT/A	2-LF	C	
LSD (P=.05)								4.4
Standard Deviation								3.1
CV								3.72

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



# The Ohio State University

## HERBICIDE TEST ON GREEN ONIONS

Trial ID: ONION 2 2000                      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  
 Postal Code: 44691

### TRIAL LOCATION

City: CELERYVILLE;PO (WILLARD)  
 State/Prov.: OHIO  
 Postal Code: 44890                      Initiation Date: Jul-24-00  
 Country: USA  
 Directions: FROM WOOSTER: TAKE SR 250 NORTH TO SR224. THEN SR224 WEST TO WILLARD;  
 THEN SR 101 SOUTH APPROX. 3 MI. TO MUCK CROPS BRANCH

### COOPERATOR/LANDOWNER

Cooperator: BILL EVANS,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 ASSESS HERBICIDE COMBINATIONS AND TIMINGS FOR WEED CONTROL AND INJURY IN GREEN ONIONS.

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	AMAXX	PIGWEEED SPECIES	AMARANTH SPP.
2	AGRASS	ANNUAL GRASSES	SPP.
3	POLPY	SMARTWEED, PENNSYLVANIA	POLYGONUM PENNSYLVANICUM L.
4	POROL	PURSLANE, COMMON	PORTULACA OLERACEA L.
5	SETFA	FOXTAIL, GIANT	SETARIA FABERI HERRM.

Crop 1: ALLCE GREEN ONION                      Variety: ISHIKURA IMPROVED  
 Planting Date: Jul-24-00                      Planting Method: CONVENTIONAL  
 Rate: 12 SEEDS/FT.                      Depth: 0.50 IN  
 Row Spacing: 19 INCH                      Seed Bed: CONVENTIONAL  
 Soil Temperature: 71 F                      Soil Moisture: DRY                      Emergence Date: Aug-04-00

**SITE AND DESIGN**

Plot Width, Unit: 6 FT Plot Length, Unit: 30 FT Reps: 4  
 Site Type: LEVEL FIELD  
 Tillage Type: CONVENTIONAL Study Design: RANDOMIZED COMPLETE BLOCK

**MAINTENANCE**

Field Prep./Maintenance: ROLLED/DISKED (7/24/00)

No.	Date	Treatment Name	Form Conc	Form Unit	Rate	Rate Unit
1	07/24/2000	DUAL			800 ML/A	
2	07/31/2000	LORSBAN			1.1 OZ/	PER 1000' ROW

**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	E
Application Date:	07/31/2000	08/09/2000	08/14/2000	08/31/2000	09/15/2000
Time of Day:	11:00AM	10:30AM	11:30AM	11:30AM	9:30AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	LOOP	POST TBD	2-LEAF	30 PHI
Applic. Placement:	BDCST	BDCST	BDCST	BDCST	BDCST
Air Temp., Unit:	75 F	78 F	80 F	80 F	50 F
% Relative Humidity:	65	85	85	85	83
Wind Velocity, Unit:	2 MPH	2 MPH	4 MPH	4 MPH	7 MPH
Dew Presence (Y/N):	N	N	N	N	N
Water Hardness:	SOFT	SOFT	SOFT	SOFT	SOFT
Soil Temp., Unit:	74.4 F	73.8 F	73.7 F	77.6 F	65 F
Soil Moisture:	MOIST	MOIST	DRY	DRY	DRY
% Cloud Cover:	20	20	20	10	20

**CROP STAGE AT EACH APPLICATION**

	A	B	C	D	E
Crop 1 Code, Stage:	ALLCE PRE	ALLCE LOOP	ALLCE POST	ALLCE 2-LEAF	ALLCE 30PHI
Stage Scale:		DESC	DESC	DESC	DESC
Height, Unit:	0 0	2 IN	4 IN	6 IN	8 IN

**WEED STAGE AT EACH APPLICATION**

	A	B	C	D	E
Weed 1 Code, Stage:	AMAXX PRE	AMAXX LOOP	AMAXX POST	AMAXX 2 LEAF	AMAXX 30 DAY PH
Stage Scale:	NONE	ALL<.50"	ALL<1"	2"OR LESS	1"OR LESS
Density, Unit:	0 0	MED TO HI	MED TO HI	MED TO HI	MED TO HI
Weed 2 Code, Stage:	AGRAS	AGRAS	AGRAS	AGRAS	AGRAS
Weed 3 Code, Stage:	POLPY	POLPY	POLPY	POLPY	POLPY
Weed 4 Code, Stage:	POROL	POROL	POROL	POROL	POROL
Weed 5 Code, Stage:	SETFA	SETFA	SETFA	SETFA	SETFA

## APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	35PSI
Nozzle Type:	FFAN
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:	WATER
Spray Volume, Unit:	20 GPA
Propellant:	CO2
Tank Mix (Y/N):	Y

## The Ohio State University

### HERBICIDE TEST ON GREEN ONIONS

Trial ID: ONION 2 2000

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

Location: CELERYVILLE,OHIO

Investigator: Dr. Douglas J. Doohan

#### Trial Comments

THIS TRIAL WAS SEEDED ON 7/24/00.

GREEN ONIONS "ISHIKURA IMPROVED" WERE SOWN.

ALL HARVEST RELATED DATA IS BASED ON THREE LINEAR FEET OF ROW/PLOT

APPLICATION EQUIPT. WAS THE SAME FOR ALL TIMINGS

# The Ohio State University

## HERBICIDE PROGRAMS FOR PROCESSING TOMATO

Trial ID: TOMATFREMT-00                      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                      Title: ASST.PROFESSOR  
 Affiliation: OARDC  
 Postal Code: 44691

### TRIAL LOCATION

City: FREMONT                      Trial Status: COMPLETE  
 State/Prov.: OHIO                      Trial Reliability: RELIABLE  
 Postal Code: 43420                      Initiation Date: Jun-09-00  
 Country: USA  
 E-Longitude of LL Corner °: 41.000000  
 Altitude of LL Corner: 636.00      Unit: FT ASL  
 Directions: CORNER OF CR 43 AND SR 53;SOUTHWEST OF FREMONT,OHIO,(SANDUSKY COUNTY)

### COOPERATOR/LANDOWNER

Cooperator: KEN SCAIFE,BRANCH MGR.                      Country: USA  
 Org: OUTLYING BRANCHES,OARDC                      Phone No: 419-332-5142  
 Address 1: 1165 CR43                      Fax No: 419-332-5643  
 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 MEDIK.
2	AMAXX	PIGWEEED SPECIES	AMARANTH SP..
3	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
4	DIGSA	CRABGRASS, LARGE	DIGITARIA SANGUINALIS (L.) SCOP.
5	POROL	PURSLANE, COMMON	PORTULACA OLERACEA L.
6	SOLPT	NIGHTSHADE, EASTERN BLACK	SOLANUM PTYCANTHUM DUNAL

# The Ohio State University

## HERBICIDE PROGRAMS FOR PROCESSING TOMATO

Trial ID: TOMATFREMT-00                      Study Dir.: DR.DOUGLAS J.DOOHAN AND T.KOCH  
 Location: FREMONT, OHIO                      Investigator: Dr. Douglas J. Doohan  
 Crop 1: LYPES      PROCESSING TOMATO                      Variety: HYPEEL 696  
 Planting Date: Jun-09-00                      Planting Method: CONVENTIONAL  
 Rate: 12              INCHES                      Depth: 2              IN                      Perennial Age: 0              0  
 Row Spacing: 6              FEET                      Seed Bed: CONVENTIONAL  
 Soil Temperature: 60              F              Soil Moisture: MOIST

### SITE AND DESIGN

Plot Width, Unit: 6              FT              Plot Length, Unit: 20              FT              Reps: 4  
 Site Type:              LEVEL FIELD  
 Tillage Type: CONVENTIONAL                      Study Design: RANDOMIZED COMPLETE BLOCK

### SOIL DESCRIPTION

% OM:              3                      Texture:              FINE SANDY LOAM  
 pH:              5.8                      Soil Name:              COLWOOD  
 CEC:              7.67                      Fert. Level:              MODERATE

### APPLICATION DESCRIPTION

	A	B
Application Date:	05/25/2000	06/20/2000
Time of Day:	11:30 AM	10:30AM
Application Method:	SPRAY	SPRAY
Application Timing:	PPI	POST
Applic. Placement:	BROFOL	BROFOL
Air Temp., Unit:	63      F	66      F
% Relative Humidity:	40	66
Wind Velocity, Unit:	8      MPH	5      MPH
Dew Presence (Y/N):	N	N
Water Hardness:	SOFT	SOFT
Soil Temp., Unit:	50      F	56      F
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	10	70

### CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	LYPES	LYPES
Stage Scale:	NONE	TRANSPLAN
Height, Unit:	0      0	7      INCH

# The Ohio State University

## HERBICIDE PROGRAMS FOR PROCESSING TOMATO

Trial ID: TOMATFREMT-00

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

Location: FREMONT,OHIO

Investigator: Dr. Douglas J. Doohan

### WEED STAGE AT EACH APPLICATION

	A	B
<b>Weed 1 Code, Stage:</b>	ABUTH PPI	ABUTH POST
<b>Stage Scale:</b>	NONE	WEEDS<1 "
<b>Density, Unit:</b>	0 0	MED
<b>Weed 2 Code, Stage:</b>	AMAXX	AMAXX
<b>Weed 3 Code, Stage:</b>	CHEAL	CHEAL
<b>Weed 4 Code, Stage:</b>	DIGSA	DIGSA
<b>Weed 5 Code, Stage:</b>	POROL	POROL
<b>Weed 6 Code, Stage:</b>	SOLPT	SOLPT

### APPLICATION EQUIPMENT

	A	B
<b>Appl. Equipment:</b>	BACKPACK	BACKPACK
<b>Operating Pressure:</b>	35	35
<b>Nozzle Type:</b>	FFAN	FFAN
<b>Nozzle Size:</b>	8002VS	8002VS
<b>Nozzle Spacing, Unit:</b>	18 IN	18 IN
<b>Nozzles/Row:</b>	4	4
<b>Band Width, Unit:</b>	5 FT	5 FT
<b>Boom Length, 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>Incorporation Equip.</b>	ROTOTILLE	
<b>Hours to Incorp.:</b>	1	
<b>Incorp. Depth, Unit:</b>	1.5	
<b>Carrier:</b>	H2O	H2O
<b>Spray Volume, Unit:</b>	20 GPA	20 GPA
<b>Propellant:</b>	CO2	CO2
<b>Tank Mix (Y/N):</b>	N	Y

# The Ohio State University

## HERBICIDE PROGRAMS FOR PROCESSING TOMATO

Trial ID: TOMATFREMT-00

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

Location: FREMONT, OHIO

Investigator: Dr. Douglas J. Doohan

### Trial Comments

RATINGS AT 7,21,42 DAYS AFTER DUAL MAGNUM POST AND AFTER MATRIX AND SENCOR POST

ON JUL-11 TOMATO PLANTS 18-26" TALL

ON JUL-11 TREATMENTS 7,8,9,10 SLIGHTLY SHORTER UP TO 10%

JUL-11 : % LEAF COVERAGE INDICATES THE AMOUNT OF LEAF FULLNESS WHEN A .5 METER QUADRAT IS PLACED OVER IT.

TWO QUADRAT MEASUREMENTS WERE TAKEN PER TREATMENT, SHOWN AS "A" AND "B"

JUL-11 : TWO HEIGHT MEASUREMENTS PER TREATMENT WERE TAKEN, EXPRESSED IN INCHES.(A&B)

JULY-20:TREATMENTS 8 &9 ; 10-15% STUNT; STILL VERY CLEAN

### COMMENTS FROM THE VEGETABLE CROPS BRANCH MANAGER (KEN SCAIFE):

APRIL 13 SEEDING INTO 288 DEEP PLUG TRAYS, METROMIX 360 SOIL MEDIA

APRIL 29 WORKED AREA WITH S-TINE FIELD CULTIVATOR AND DRAG

MAY 5 BROADCAST FERTILIZER: 70 IB N/ACRE, 250 IB K<sub>2</sub>O/ACRE, 60 IB P<sub>2</sub>O<sub>5</sub>/ACRE

MAY 17 DISK BEDDED, POWER BEDDED

JUNE 9 TRANSPLANTED, PLANT SPACING 12 INCHES (SINGLE ROW ON A BED)

JULY 1 HAND WEEDED CONTROL PLOTS, HOED AND LARGE WEEDS PULLED

# The Ohio State University

**HERBICIDE PROGRAMS FOR PROCESSING TOMATO**

Trial ID: TOMATFREMT-00 Study Dir.: DR. D. J.DOOHAN AND T.KOCH

Location: FREMONT,OHIO Investigator: Dr. Douglas J. Doohan

								AMAXX	POROL	CHEAL
								LYPES	LYPES	LYPES
								P	P	P
								PPI	PPI	PPI
								%	%	%
								6/16/00	6/16/00	6/16/00
								0	0	0
Trt	Treatment	Form	Form	Product	Product	Grow	Appl			
No.	Name	Conc	Type	Rate	Rate Unit	Stg	Code	1	2	3
1	HANDWEEDED CONTROL							0 b	0 c	0 b
2	WEEDY CONTROL							0 b	0 c	0 b
3	DUAL MAGNUM	7.62	EC	1.33	PT/A	PPI		98 a	95 a	98 a
4	DUAL MAGNUM	7.62	EC	1.33	PT/A	P.TP.BR.		0 b	0 c	0 b
5	DUAL MAGNUM	7.62	EC	1.33	PT/A	P.TP.DIR		0 b	0 c	0 b
6	DUAL MAGNUM+ SENCOR	7.62	EC	1.33	PT/A	P.TP.DIR		0 b	0 c	0 b
7	DUAL MAGNUM + MATRIX	7.62	EC	1.33	PT/A	PPI		99 a	95 ab	95 a
	SENCOR	75	DF	0.75	LB/A	P.TP.DIR				
	NIS	0	SL	6.4	OZ/A	POST<1"				
8	DUAL MAGNUM + MATRIX +	7.62	EC	1.33	PT/A	PPI		98 a	93 b	96 a
	SENCOR +	75	DF	12	OZ/A	POST<1"				
	NIS	0	SL	6.4	OZ/A	POST<1"				
9	DUAL MAGNUM + MATRIX +	7.62	EC	1.33	PT/A	PPI		99 a	96 a	96 a
	SENCOR +	75	DF	12	OZ/A	POST<1"				
	NIS	0	SL	6.4	OZ/A	POST<1"				
10	MATRIX + SENCOR +	25	DF	2.05	OZ/A	POST<1"		0 b	0 c	0 b
	NIS	0	SL	6.4	OZ/A	POST<1"				
LSD (P=.05)								1.2	2.4	4.2
Standard Deviation								0.8	1.6	2.9
CV								2.14	4.3	7.61

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



# The Ohio State University

**HERBICIDE PROGRAMS FOR PROCESSING TOMATO**

Trial ID: TOMATFREMT-00 Study Dir.: DR. D. J.DOOHAN AND T.KOCH

Location: FREMONT,OHIO Investigator: Dr. Douglas J. Doohan

Weed Code								LYPES	SOLPT	POROL
Crop Code								LYPES	LYPES	LYPES
Part Rated								C	P	P
Rating Data Type								INJURY	CONTROL	CONTROL
Rating Unit								%	%	%
Rating Date								6/29/00	6/29/00	6/29/00
Crop Stage										
# Subsamples, Dec.								0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	4	5	6
1	HANDWEEDED CONTROL							0 c	0 d	0 d
2	WEEDY CONTROL							0 c	0 d	0 d
3	DUAL MAGNUM	7.62	EC	1.33	PT/A	PPI		0 c	92 a	70 b
4	DUAL MAGNUM	7.62	EC	1.33	PT/A	P.TP.BR.		38 a	20 cd	28 c
5	DUAL MAGNUM	7.62	EC	1.33	PT/A	P.TP.DIR		1 c	40 bc	33 c
6	DUAL MAGNUM+ SENCOR	7.62	EC	1.33	PT/A	P.TP.DIR		26 ab	67 ab	97 a
7	DUAL MAGNUM + MATRIX	7.62	EC	1.33	PT/A	PPI		23 abc	97 a	99 a
	SENCOR	75	DF	0.75	LB/A	P.TP.DIR				
	NIS	0	SL	6.4	OZ/A	POST<1"				
8	DUAL MAGNUM + MATRIX +	7.62	EC	1.33	PT/A	PPI		20 abc	92 a	99 a
	SENCOR +	75	DF	12	OZ/A	POST<1"				
	NIS	0	SL	6.4	OZ/A	POST<1"				
9	DUAL MAGNUM + MATRIX +	7.62	EC	1.33	PT/A	PPI		11 bc	96 a	74 ab
	SENCOR +	75	DF	12	OZ/A	POST<1"				
	NIS	0	SL	6.4	OZ/A	POST<1"				
10	MATRIX + SENCOR +	25	DF	2.05	OZ/A	POST<1"		5 bc	52 b	99 a
	NIS	0	SL	6.4	OZ/A	POST<1"				
LSD (P=.05)								23.4	30.1	26.1
Standard Deviation								16.1	20.7	18
CV								130.6	37.35	30.06

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

# The Ohio State University

**HERBICIDE PROGRAMS FOR PROCESSING TOMATO**

Trial ID: TOMATFREMT-00 Study Dir.: DR. D. J.DOOHAN AND T.KOCH

Location: FREMONT,OHIO Investigator: Dr. Douglas J. Doohan

Weed Code								CHEAL		CHEAL
Crop Code								LYPES	LYPES	LYPES
Part Rated								P	C	P
Rating Data Type								CONTROL	INJURY	CONTROL
Rating Unit								%	%	%
Rating Date								6/29/00	7/11/00	7/11/00
Crop Stage										
# Subsamples, Dec.								0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	7	8	9
1	HANDWEEDED CONTROL							0 b	25 a	99 a
2	WEEDY CONTROL							0 b	0 a	0 e
3	DUAL MAGNUM	7.62	EC	1.33	PT/A	PPI		60 a	25 a	65 bc
4	DUAL MAGNUM	7.62	EC	1.33	PT/A	P.TP.BR.		59 a	3 a	33 d
5	DUAL MAGNUM	7.62	EC	1.33	PT/A	P.TP.DIR		60 a	0 a	52 cd
6	DUAL MAGNUM+ SENCOR	7.62	EC	1.33	PT/A	P.TP.DIR		99 a	0 a	82 abc
7	DUAL MAGNUM + MATRIX	7.62	EC	1.33	PT/A	PPI		99 a	6 a	96 ab
	SENCOR	75	DF	0.75	LB/A	P.TP.DIR				
	NIS	0	SL	6.4	OZ/A	POST<1"				
8	DUAL MAGNUM + MATRIX +	7.62	EC	1.33	PT/A	PPI		99 a	6 a	98 a
	SENCOR +	75	DF	12	OZ/A	POST<1"				
	NIS	0	SL	6.4	OZ/A	POST<1"				
9	DUAL MAGNUM + MATRIX +	7.62	EC	1.33	PT/A	PPI		55 a	8 a	99 a
	SENCOR +	75	DF	12	OZ/A	POST<1"				
	NIS	0	SL	6.4	OZ/A	POST<1"				
10	MATRIX + SENCOR +	25	DF	2.05	OZ/A	POST<1"		74 a	6 a	99 a
	NIS	0	SL	6.4	OZ/A	POST<1"				
LSD (P=.05)								45.2	30.4	31.6
Standard Deviation								31.1	20.9	21.8
CV								51.58	267.34	30.19

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

# The Ohio State University

**HERBICIDE PROGRAMS FOR PROCESSING TOMATO**

Trial ID: TOMATFREMT-00 Study Dir.: DR. D. J.DOOHAN AND T.KOCH

Location: FREMONT,OHIO Investigator: Dr. Douglas J. Doohan

Weed Code								POROL	SOLPT	
Crop Code								LYPES	LYPES	LYPES
Part Rated								P	P	A
Rating Data Type								CONTROL	CONTROL	LF.COVER
Rating Unit								%	%	%
Rating Date								7/11/00	7/11/00	7/11/00
Crop Stage										
# Subsamples, Dec.								0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	10	11	12
1	HANDWEEDED CONTROL							99 a	99 a	88 ab
2	WEEDY CONTROL							0 d	0 e	80 abc
3	DUAL MAGNUM	7.62	EC	1.33	PT/A	PPI		51 b	94 a	81 abc
4	DUAL MAGNUM	7.62	EC	1.33	PT/A	P.TP.BR.		23 c	20 de	79 bc
5	DUAL MAGNUM	7.62	EC	1.33	PT/A	P.TP.DIR		18 cd	33 cd	87 ab
6	DUAL MAGNUM+ SENCOR	7.62	EC	1.33	PT/A	P.TP.DIR		83 a	75 ab	89 a
7	DUAL MAGNUM + MATRIX	7.62	EC	1.33	PT/A	PPI		96 a	93 a	82 abc
	SENCOR	75	DF	0.75	LB/A	P.TP.DIR				
	NIS	0	SL	6.4	OZ/A	POST<1"				
8	DUAL MAGNUM + MATRIX +	7.62	EC	1.33	PT/A	PPI		98 a	93 a	80 bc
	SENCOR +	75	DF	12	OZ/A	POST<1"				
	NIS	0	SL	6.4	OZ/A	POST<1"				
9	DUAL MAGNUM + MATRIX +	7.62	EC	1.33	PT/A	PPI		97 a	93 a	77 c
	SENCOR +	75	DF	12	OZ/A	POST<1"				
	NIS	0	SL	6.4	OZ/A	POST<1"				
10	MATRIX + SENCOR +	25	DF	2.05	OZ/A	POST<1"		97 a	56 bc	74 c
	NIS	0	SL	6.4	OZ/A	POST<1"				
LSD (P=.05)								17.8	26.1	9.2
Standard Deviation								12.3	18	6.3
CV								18.56	27.43	7.78

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

# The Ohio State University

HERBICIDE PROGRAMS FOR PROCESSING TOMATO

Trial ID: TOMATFREMT-00 Study Dir.: DR. D. J.DOOHAN AND T.KOCH

Location: FREMONT,OHIO Investigator: Dr. Douglas J. Doohan

Weed Code								LYPES	LYPES	LYPES
Crop Code								B	A	B
Part Rated								LF.COVER	HEIGHT	HEIGHT
Rating Data Type								%	INCHES	INCHES
Rating Unit										
Rating Date								7/11/00	7/11/00	7/11/00
Crop Stage										
# Subsamples, Dec.								0	1	1
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	13	14	15
1	HANDWEEDED CONTROL							86 abc	18 ab	19 a
2	WEEDY CONTROL							82 a-d	17.5 abc	18 ab
3	DUAL MAGNUM	7.62	EC	1.33	PT/A	PPI		82 a-d	17 abc	16.8 a-d
4	DUAL MAGNUM	7.62	EC	1.33	PT/A	P.TP.BR.		74 d	16 bc	15.8 bcd
5	DUAL MAGNUM	7.62	EC	1.33	PT/A	P.TP.DIR		90 ab	19.3 a	17 a-d
6	DUAL MAGNUM+ SENCOR	7.62	EC	1.33	PT/A	P.TP.DIR		91 a	17.5 abc	17.3 abc
7	DUAL MAGNUM + MATRIX	7.62	EC	1.33	PT/A	PPI		79 cd	15.5 bc	14.5 d
	SENCOR	75	DF	0.75	LB/A	P.TP.DIR				
	NIS	0	SL	6.4	OZ/A	POST<1"				
8	DUAL MAGNUM + MATRIX +	7.62	EC	1.33	PT/A	PPI		78 cd	15.8 bc	15.3 cd
	SENCOR +	75	DF	12	OZ/A	POST<1"				
	NIS	0	SL	6.4	OZ/A	POST<1"				
9	DUAL MAGNUM + MATRIX +	7.62	EC	1.33	PT/A	PPI		81 bcd	14.8 c	15 cd
	SENCOR +	75	DF	12	OZ/A	POST<1"				
	NIS	0	SL	6.4	OZ/A	POST<1"				
10	MATRIX + SENCOR +	25	DF	2.05	OZ/A	POST<1"		76 d	14.8 c	15.8 bcd
	NIS	0	SL	6.4	OZ/A	POST<1"				
LSD (P=.05)								8.9	2.84	2.72
Standard Deviation								6.2	1.96	1.88
CV								7.54	11.79	11.42

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

# The Ohio State University

**HERBICIDE PROGRAMS FOR PROCESSING TOMATO**

Trial ID: TOMATFREMT-00 Study Dir.: DR. D. J.DOOHAN AND T.KOCH

Location: FREMONT,OHIO Investigator: Dr. Douglas J. Doohan

								POROL	CHEAL	SOLPT
								LYPES	LYPES	LYPES
								P	P	P
								CONTROL	CONTROL	CONTROL
								%	%	%
								7/20/00	7/20/00	7/20/00
								0	0	0
Trt	Treatment	Form	Form	Product	Product	Grow	Appl			
No.	Name	Conc	Type	Rate	Rate Unit	Stg	Code	16	17	18
1	HANDWEEDED CONTROL							100 a	100 a	100 a
2	WEEDY CONTROL							0 d	0 d	0 c
3	DUAL MAGNUM	7.62	EC	1.33	PT/A	PPI		43 b	57 bc	92 a
4	DUAL MAGNUM	7.62	EC	1.33	PT/A	P.TP.BR.		8 cd	30 cd	8 c
5	DUAL MAGNUM	7.62	EC	1.33	PT/A	P.TP.DIR		25 bc	47 c	40 b
6	DUAL MAGNUM+ SENCOR	7.62	EC	1.33	PT/A	P.TP.DIR		85 a	82 ab	77 a
7	DUAL MAGNUM + MATRIX	7.62	EC	1.33	PT/A	PPI		91 a	94 a	91 a
	SENCOR	75	DF	0.75	LB/A	P.TP.DIR				
	NIS	0	SL	6.4	OZ/A	POST<1"				
8	DUAL MAGNUM + MATRIX +	7.62	EC	1.33	PT/A	PPI		96 a	98 a	88 a
	SENCOR +	75	DF	12	OZ/A	POST<1"				
	NIS	0	SL	6.4	OZ/A	POST<1"				
9	DUAL MAGNUM + MATRIX +	7.62	EC	1.33	PT/A	PPI		92 a	97 a	96 a
	SENCOR +	75	DF	12	OZ/A	POST<1"				
	NIS	0	SL	6.4	OZ/A	POST<1"				
10	MATRIX + SENCOR +	25	DF	2.05	OZ/A	POST<1"		92 a	99 a	24 bc
	NIS	0	SL	6.4	OZ/A	POST<1"				
LSD (P=.05)								17.8	33.2	26.6
Standard Deviation								12.2	22.9	18.3
CV								19.38	32.47	29.81

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

# The Ohio State University

**HERBICIDE PROGRAMS FOR PROCESSING TOMATO**

Trial ID: TOMATFREMT-00 Study Dir.: DR. D. J.DOOHAN AND T.KOCH

Location: FREMONT,OHIO Investigator: Dr. Douglas J. Doohan

Weed Code								DIGSA	ABUTH	
Crop Code								LYPES	LYPES	LYPES
Part Rated								P	P	C
Rating Data Type								CONTROL	CONTROL	INJURY
Rating Unit								%	%	%
Rating Date								7/20/00	7/20/00	8/3/00
Crop Stage										
# Subsamples, Dec.								0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	19	20	21
1	HANDWEEDED CONTROL							100 a	100 a	0 b
2	WEEDY CONTROL							0 d	50 b	0 b
3	DUAL MAGNUM	7.62	EC	1.33	PT/A	PPI		99 a	100 a	0 b
4	DUAL MAGNUM	7.62	EC	1.33	PT/A	P.TP.BR.		30 c	53 b	0 b
5	DUAL MAGNUM	7.62	EC	1.33	PT/A	P.TP.DIR		57 bc	93 a	0 b
6	DUAL MAGNUM+ SENCOR	7.62	EC	1.33	PT/A	P.TP.DIR		85 ab	95 a	1 ab
7	DUAL MAGNUM + MATRIX	7.62	EC	1.33	PT/A	PPI		99 a	99 a	1 ab
	SENCOR	75	DF	0.75	LB/A	P.TP.DIR				
	NIS	0	SL	6.4	OZ/A	POST<1"				
8	DUAL MAGNUM + MATRIX +	7.62	EC	1.33	PT/A	PPI		99 a	99 a	3 ab
	SENCOR +	75	DF	12	OZ/A	POST<1"				
	NIS	0	SL	6.4	OZ/A	POST<1"				
9	DUAL MAGNUM + MATRIX +	7.62	EC	1.33	PT/A	PPI		99 a	100 a	4 a
	SENCOR +	75	DF	12	OZ/A	POST<1"				
	NIS	0	SL	6.4	OZ/A	POST<1"				
10	MATRIX + SENCOR +	25	DF	2.05	OZ/A	POST<1"		99 a	100 a	0 b
	NIS	0	SL	6.4	OZ/A	POST<1"				
LSD (P=.05)								28	35.6	2.9
Standard Deviation								19.3	24.5	2
CV								25.17	27.65	230.02

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

# The Ohio State University

**HERBICIDE PROGRAMS FOR PROCESSING TOMATO**

Trial ID: TOMATFREMT-00 Study Dir.: DR. D. J.DOOHAN AND T.KOCH

Location: FREMONT,OHIO Investigator: Dr. Douglas J. Doohan

								POROL	CHEAL	SOLPT
								LYPES	LYPES	LYPES
								P	P	P
								CONTROL	CONTROL	CONTROL
								%	%	%
								8/3/00	8/3/00	8/3/00
								0	0	0
Trt	Treatment	Form	Form	Product	Product	Grow	Appl			
No.	Name	Conc	Type	Rate	Rate Unit	Stg	Code	22	23	24
1	HANDWEEDED CONTROL							100 a	100 a	100 a
2	WEEDY CONTROL							0 d	0 d	0 d
3	DUAL MAGNUM	7.62	EC	1.33	PT/A	PPI		63 b	68 b	99 a
4	DUAL MAGNUM	7.62	EC	1.33	PT/A	P.TP.BR.		35 c	45 c	25 c
5	DUAL MAGNUM	7.62	EC	1.33	PT/A	P.TP.DIR		33 c	41 c	38 c
6	DUAL MAGNUM+ SENCOR	7.62	EC	1.33	PT/A	P.TP.DIR		85 a	97 a	73 b
7	DUAL MAGNUM + MATRIX	7.62	EC	1.33	PT/A	PPI		93 a	96 a	94 ab
	SENCOR	75	DF	0.75	LB/A	P.TP.DIR				
	NIS	0	SL	6.4	OZ/A	POST<1"				
8	DUAL MAGNUM + MATRIX +	7.62	EC	1.33	PT/A	PPI		91 a	98 a	90 ab
	SENCOR +	75	DF	12	OZ/A	POST<1"				
	NIS	0	SL	6.4	OZ/A	POST<1"				
9	DUAL MAGNUM + MATRIX +	7.62	EC	1.33	PT/A	PPI		90 a	99 a	96 ab
	SENCOR +	75	DF	12	OZ/A	POST<1"				
	NIS	0	SL	6.4	OZ/A	POST<1"				
10	MATRIX + SENCOR +	25	DF	2.05	OZ/A	POST<1"		92 a	99 a	40 c
	NIS	0	SL	6.4	OZ/A	POST<1"				
LSD (P=.05)								15.2	20.8	24.3
Standard Deviation								10.5	14.4	16.8
CV								15.38	19.35	25.65

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

# The Ohio State University

**HERBICIDE PROGRAMS FOR PROCESSING TOMATO**

Trial ID: TOMATFREMT-00 Study Dir.: DR. D. J.DOOHAN AND T.KOCH

Location: FREMONT,OHIO Investigator: Dr. Douglas J. Doohan

Weed Code								DIGSA	ABUTH	
Crop Code								LYPES	LYPES	LYPES
Part Rated								P	P	C
Rating Data Type								CONTROL	CONTROL	MRKT WT
Rating Unit								%	%	KG
Rating Date								8/3/00	8/3/00	9/28/00
Crop Stage										HARVEST
# Subsamples, Dec.								0	0	1
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	25	26	27
1	HANDWEEDED CONTROL							100 a	100 a	16.3 ab
2	WEEDY CONTROL							100 a	100 a	12.2 bc
3	DUAL MAGNUM	7.62	EC	1.33	PT/A	PPI		85 ab	100 a	15.3 abc
4	DUAL MAGNUM	7.62	EC	1.33	PT/A	P.TP.BR.		80 ab	100 a	10.4 c
5	DUAL MAGNUM	7.62	EC	1.33	PT/A	P.TP.DIR		75 b	95 a	13.4 bc
6	DUAL MAGNUM+ SENCOR	7.62	EC	1.33	PT/A	P.TP.DIR		96 ab	96 a	17.1 ab
7	DUAL MAGNUM + MATRIX SENCOR NIS	7.62	EC	1.33	PT/A	PPI		100 a	100 a	16.7 ab
		25	DF	1	OZ/A	POST<1"				
		75	DF	12	OZ/A	POST<1"				
		0	SL	6.4	OZ/A	POST<1"				
8	DUAL MAGNUM + MATRIX + SENCOR + NIS	7.62	EC	1.33	PT/A	PPI		100 a	100 a	19.6 a
		25	DF	2.05	OZ/A	POST<1"				
		75	DF	12	OZ/A	POST<1"				
		0	SL	6.4	OZ/A	POST<1"				
9	DUAL MAGNUM + MATRIX + SENCOR + NIS	7.62	EC	1.33	PT/A	PPI		100 a	100 a	15.4 ab
		25	DF	3.07	OZ/A	POST<1"				
		75	DF	12	OZ/A	POST<1"				
		0	SL	6.4	OZ/A	POST<1"				
10	MATRIX + SENCOR + NIS	25	DF	2.05	OZ/A	POST<1"		100 a	100 a	17.1 ab
		75	DF	12	OZ/A	POST<1"				
		0	SL	6.4	OZ/A	POST<1"				
LSD (P=.05)								23.1	5.4	5.02
Standard Deviation								15.9	3.7	3.46
CV								17.06	3.72	22.56

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



# The Ohio State University

HERBICIDE PROGRAMS FOR PROCESSING TOMATO

Trial ID: TOMATFREMT-00 Study Dir.: DR. D. J.DOOHAN AND T.KOCH

Location: FREMONT,OHIO Investigator: Dr. Douglas J. Doohan

Weed Code								LYPES	LYPES	LYPES
Crop Code								C	C	C
Part Rated										
Rating Data Type								GREEN WT	50 FRTWT	CULL WT
Rating Unit								KG	KG	KG
Rating Date								9/28/00	9/28/00	9/28/00
Crop Stage								HARVEST	HARVEST	HARVEST
# Subsamples, Dec.								1	1	1
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	28	29	30
1	HANDWEEDED CONTROL							0.8 cd	3.5 ab	0.6 a
2	WEEDY CONTROL							0.8 cd	3.4 ab	0.6 ab
3	DUAL MAGNUM	7.62	EC	1.33	PT/A	PPI		1.6 a-d	3.4 ab	0.3 bc
4	DUAL MAGNUM	7.62	EC	1.33	PT/A	P.TP.BR.		1.4 bcd	3.2 b	0.5 ab
5	DUAL MAGNUM	7.62	EC	1.33	PT/A	P.TP.DIR		0.8 cd	3.5 ab	0.6 ab
6	DUAL MAGNUM+ SENCOR	7.62	EC	1.33	PT/A	P.TP.DIR		0.5 d	3.5 ab	0.4 abc
7	DUAL MAGNUM + MATRIX SENCOR NIS	7.62	EC	1.33	PT/A	PPI		2.3 abc	3.3 ab	0.4 abc
		25	DF	1	OZ/A	POST<1"				
		75	DF	12	OZ/A	POST<1"				
		0	SL	6.4	OZ/A	POST<1"				
8	DUAL MAGNUM + MATRIX + SENCOR + NIS	7.62	EC	1.33	PT/A	PPI		3.1 a	3.7 a	0.2 c
		25	DF	2.05	OZ/A	POST<1"				
		75	DF	12	OZ/A	POST<1"				
		0	SL	6.4	OZ/A	POST<1"				
9	DUAL MAGNUM + MATRIX + SENCOR + NIS	7.62	EC	1.33	PT/A	PPI		2.4 ab	3.4 ab	0.4 abc
		25	DF	3.07	OZ/A	POST<1"				
		75	DF	12	OZ/A	POST<1"				
		0	SL	6.4	OZ/A	POST<1"				
10	MATRIX + SENCOR + NIS	25	DF	2.05	OZ/A	POST<1"		2.3 abc	3.5 ab	0.2 c
		75	DF	12	OZ/A	POST<1"				
		0	SL	6.4	OZ/A	POST<1"				
LSD (P=.05)								1.57	0.5	0.33
Standard Deviation								1.08	0.34	0.23
CV								67.77	9.93	54.29

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

# The Ohio State University

Trial Type: RES Protocol No.: NA99P2D008 Project Plan #: 9900HOVG  
 Discipline:\* HERBICIDE DED#:\* P2D Main Chem: CLOPYRALID+FLUMETSULAM  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES Product Dev. Stage:\* COMMERCIAL  
 Trial Category:\* TOLER/CROP ROT. Site Type:\* FREMONT OARDC VEG. CROPS

Title: SENSITIVITY OF VEGETABLE CROPS TO SOIL RESIDUES OF POST- HERBICIDES  
 APPLIED THE PREVIOUS YEAR (HORNET CARRYOVER STUDY)

Business Unit:\* US MIDWEST PRM License Holder: M. E. SCHULTZ

## CONCEPT/KEY QUESTION

Key Question 1: DO IMPORTANT ROTATIONAL VEGETABLE AND SPECIALTY CROPS HAVE  
 ACCEPTABLE TOLERANCE TO APPLICATIONS OF HORNET APPLIED THE PREVIOUS  
 YEAR?

## GENERAL TRIAL INFORMATION

Experiment Number: MES9929  
 Establish Date: Jun-11-99  
 People/Places\* DA Man# Name City/Town Loc Phone  
 Dow Agro Rep: U672068 SCHULTZ, M. E. FISHERS IN 317-596-0907  
 Trial Address: FREMONT OH  
 Applicator: NON-DE DOOHAN, DOUG WOOSTER OH 330-262-7840  
 Evaluator: NON-DE DOOHAN, DOUG WOOSTER OH 330-202-3593  
 GLP Director: NON-DE FELIX, JOEL WOOSTER OH 330-202-3595  
 Cooperator: NON-DE DOOHAN, DOUG WOOSTER OH 330-202-3593  
 Locn Of Trial: VEGETABLE RESEARCH STATION OF OARDC AT FREMONT, OHIO

## REGULATORY INFORMATION

For Registration Purposes (Y/N): N GLP Study (Y/N): N  
 Crop Destruct (Y/N): N Crop Yield Required (Y/N): N

## TRIAL LAYOUT

Number Of Replicates: 4 Experimental Design: RCB  
 Plot Size: 15 X 50 Units:\* FT

## TRIAL SITE

Soil Series/Other: HOYTVILLE  
 Tillage Type:\* CONV.  
 %OM: 3.0 pH: 5.5 % Slope: 0

## CHEMICAL/TILLAGE HISTORY (PAST YEARS) FOR SITE

Approx Date	Treatment or Device	Rate	Purpose
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# The Ohio State University

Trial Type: RES Protocol No.: NA99P2D008 Project Plan #: 9900HOVG  
 Discipline:\* HERBICIDE DED#:\* P2D Main Chem: CLOPYRALID+FLUMETSULAM

**CROP TABLE**

Code*	Scientific Name*	Common Name*				Variety
	Plant	Spacing	Spacing	Seeding	Seed	Height
	Date	Row ,Un*	InRow,Un*	Depth,Un*	Rate ,Un*	At Appl,Un*
1. CPSAN	CAPSICUM ANNUUM			SWEET BELL PEPPER		NORTHSTAR
	Jun-09-00	,	,	,	,	,
2. LYPXP	LYCOPERSICON ESCULENTUM			TOMATO, TRANSPLANTED		= 2 POPULAR
	Jun-09-00	,	,	,	,	,
3. BRSOL	BRASSICA OLERACEA CAPITATA			HEAD CABBAGE		CHEERS
	May-09-00	,	,	,	,	,
4. SOLTU	SOLANUM TUBEROSUM			POTATO		SUPERIOR
	May-12-00	,	,	,	,	,
5. PHSVN	PHASEOLUS VULGARIS NANUS			SNAP-BEAN		>=2 POPULAR
	May-09-00	,	,	,	,	,
6. ZEAMX	ZEA MAYS			FIELD CORN / MAIZE		DEKALB 589 RR
		,	,	,	,	,

**PEST TABLE**

Code*	Scientific Name*	Common Name*			
	Application	Part/Sub	Weed	Pest Gr	Appl
	Den/Type/Un	Eval*	Hgt/Dia	Stage*	Code

**INCORPORATION INFORMATION**

Inc. Device	Time After		Equipment	Treatment
No. Description*	Speed,Un*	Appl,Un*	Depth,Un*	Numbers
	,	,	,	,

**APPLICATION TIMING**

Appl. Code:	A	B	C	D	E	F
Date:	Jun-11-99	May-10-00	May-12-00	Jun-09-00	Jul-08-00	Jun-10-00
Interval:						
Time Of Day:						
Crop Stage:*	POST	POST	POST	POST	POST	POST
User Option:		DUAL	SENCOR	DUAL	POAST	SEVIN

# The Ohio State University

Trial Type: RES Protocol No.: NA99P2D008 Project Plan #: 9900HOVG  
 Discipline:\* HERBICIDE DED#:\* P2D Main Chem: CLOPYRALID+FLUMETSULAM

## APPLICATION EQUIPMENT

Appl. Code:	A	B	C	D	E	F
Diluent:*	WATER	WATER	WATER	WATER	WATER	WATER
Appl Method:*	PRE	POST	POST	POST	POST	POST
Appl Place/Opt:*	BROADCST	BROADCST	BROADCST	BROADCST	BROADCST	BROADCST
Appl Eqpt Type:*	TRACTOR	TRACTOR	TRACTOR	TRACTOR	TRACTOR	TRACTOR
Equip. Speed,Un:*	3.0 ,MPH	3.0 ,MPH	3.0 ,MPH	3.0 ,MPH	3.0 ,MPH	3.0 ,MPH
Equip Pres,Unit:*	,	,	,	,	,	,
Type Planter:*						
Nozzle Type:*						
Nozzle Manufact:						
Nozzle No./Size:						
No. Nozz/Knives:						
Nozzle Space,Un:*	,	,	,	,	,	,
Orientation:						
Bd/Swath Wid,Un:*	,	,	,	,	,	,
Target Dist,Un:*	,	,	,	,	,	,
Volume,Unit:*	,	,	,	,	,	,

## APPLICATION ENVIRONMENT

Appl. Code:	A	B	C	D	E	F
Air Temp., Un:*	,	,	,	,	,	,
% Rel Hum:						
Wind Speed,Un:*	,	,	,	,	,	,
Wind Direction:*						
Cloud Cover:*						
Soil Moisture:*						
Soil Temp.,Un:*	,	,	,	,	,	,
@ Depth,Un:*	,	,	,	,	,	,
Foliage Moist:*						
Data Source:*						

## APPLICATION CONDITIONS: PRECIPITATION (RAINFALL+IRRIGATION)

Appl. Code:	A	B	C	D	E	F
Ppt2wk Prior,Un:*	,	,	,	,	,	,
Ppt1wk Prior,Un:*	,	,	,	,	,	,
Time To 1st,Un:*	,	,	,	,	,	,
Date 1st Pptn:						
Amt. 1st Ppt,Un:*	,	,	,	,	,	,
1st Waa Tot,Un:*	,	,	,	,	,	,
2nd Waa Tot,Un:*	,	,	,	,	,	,
3rd Waa Tot,Un:*	,	,	,	,	,	,
4th Waa Tot,Un:*	,	,	,	,	,	,
4 Weeks Tot,Un:*	,	,	,	,	,	,

# The Ohio State University

Trial Type: RES Protocol No.: NA99P2D008 Project Plan #: 9900HOVG  
 Discipline:\* HERBICIDE DED#:\* P2D Main Chem: CLOPYRALID+FLUMETSULAM  
 HISTORICAL PRECIPITATION FOR ROTATION SITE

Historical  
 Year Month\* Actual,Un\* Avg,Un\*

## APPLICATION COMMENTS

Application Comments

### ARTIFICIAL INOCULATION/INFESTATION

Date	Crop	Pest	Pest	Pest	Pest	Inoc/Inf	Conc.	Inoc/Inf
Inoc	Stage*	Code*	Stage*	Source	Storage	Volume	/ML	Method

### PADDY RICE

Date	Rice Seedlings			Water Temp (C)			Air Temp (C)		
	No. Leaves	Hgt (Cm)		Max	Min	Avg	Max	Min	Avg

### OTHER AGRICULTURAL PRACTICES

Date	Treatment*	Rate	Target/Reason*
1. Jun-18-99	ROUNDUP ULTRA		WEED CONTROL

### WEATHER DATA

Date	Air Temp (C)			% Humidity			Precip./Irrig.			Wind	User	User
	Max	Min	Avg	Max	Min	Avg	Start	End	Tot(Mm)	Spd(Kph)	Option	Option

### PROTOCOL AMENDMENTS/DEVIATIONS (MANDATORY FOR GLP STUDIES)

Signature: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_ Date: \_\_\_\_\_  
 Initiator: \_\_\_\_\_ Study Director: \_\_\_\_\_

# The Ohio State University

Trial Type: RES Protocol No.: NA99P2D008 Project Plan #: 9900HOVG  
 Discipline:\* HERBICIDE DED#:\* P2D Main Chem: CLOPYRALID+FLUMETSULAM  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES Product Dev. Stage:\* COMMERCIAL  
 Trial Category:\* TOLER/CROP ROT. Site Type:\* FREMONT OARDC VEG. CROPS

Title: SENSITIVITY OF VEGETABLE CROPS TO SOIL RESIDUES OF POST- HERBICIDES  
 APPLIED THE PREVIOUS YEAR (HORNET CARRYOVER STUDY)

Business Unit:\* US MIDWEST PRM License Holder: M. E. SCHULTZ

## Trial Comments

RELIABILITY/VALIDITY

SUMMARY

CONCLUSIONS

STATISTICAL ANALYSIS

## The Ohio State University

Trial Type: RES Protocol No.: NA99P2D008 Project Plan #: 9900HOVG  
 Discipline:\* HERBICIDE DED#:\* P2D Main Chem: CLOPYRALID+FLUMETSULAM  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES Product Dev. Stage:\* COMMERCIAL  
 Trial Category:\* TOLER/CROP ROT. Site Type:\* FREMONT OARDC VEG. CROPS

Title: SENSITIVITY OF VEGETABLE CROPS TO SOIL RESIDUES OF POST- HERBICIDES  
 APPLIED THE PREVIOUS YEAR (HORNET CARRYOVER STUDY)

Business Unit:\* US MIDWEST

PRM License Holder: M. E. SCHULTZ

Observation No.	1	2	3	4	5	6	7
Evaluation Date	6/17/99	6/17/99	6/17/99	6/25/99	6/25/99	6/25/99	7/9/99
Crop Code*	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Part/Sub Eval*	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Evaluation Type*	CHLORO	STUNTING	INJURY	CHLORO	STUNTING	INJURY	CHLORO
Eval Unit/Scale*	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL
Sample Size							
Sample Unit*							
Trt-Eval Interval	6DAAA	6DAAA	6DAA	14DAA	14DAA	14DAA	28DAA
User Option 1							
User Option 2							
PRM Data Type*	P	P	P	P	P	P	P
Trt Appl Treatment Form Fm Timing/ No Code Name* Conc Ds* Dev Stg	1	2	3	4	5	6	7
1 UNTREATED	0 d	0 c	0 c	0 b	0 d	0 e	0 a
2 A HORNET 85.6 WG V5-V6	10 c	12.5 b	13.8 b	5 ab	6.3 cd	7.5 d	0 a
A NONIONIC SL V5-V6							
A UAN 28% SL V5-V6							
3 A HORNET 85.6 WG V5-V6	8.8 c	11.3 b	13.8 b	6.3 ab	7.5 c	8.8 cd	0 a
A NONIONIC SL V5-V6							
A UAN 28% SL V5-V6							
4 A HORNET 85.6 WG V5-V6	10 c	11.3 b	15 b	7.5 a	10 c	15 bc	0 a
A NONIONIC SL V5-V6							
A UAN 28% SL V5-V6							
5 A STINGER 360 SL V5-V6	16.3 b	10 b	18.8 b	10 a	18.8 ab	20 ab	0 a
A NONIONIC SL V5-V6							
A UAN 28% SL V5-V6							
6 A NORTHSTAR 47.4 WG V5-V6	28.8 a	32.5 a	32.5 a	6.3 ab	25 a	26.3 a	0 a
A NONIONIC SL V5-V6							
A UAN 28% SL V5-V6							
7 A ACCENT 75 WG V5-V6	13.8 bc	13.8 b	20 b	5 ab	12.5 bc	13.8 bcd	0 a
A NONIONIC SL V5-V6							
LSD (P=.05)	6.14	9.43	8.63	6.8	6.36	7.31	0
Standard Deviation	4.13	6.35	5.81	4.58	4.28	4.92	0
CV	33.05	48.69	35.74	80.07	37.49	37.74	0

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

# The Ohio Sta

Trial Type: RES Protocol No.: NA9:  
 Discipline:\* HERBICIDE DED#:\* P:  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES P:  
 Trial Category:\* TOLER/CROP ROT.

Title: SENSITIVITY OF VEGETABLE CRO:  
 APPLIED THE PREVIOUS YEAR (HORNET C

Business Unit:\* US MIDWEST

Observation No.	8	9	10	11	12	13	14					
Evaluation Date	7/9/99	7/9/99	5/25/00	5/25/00	5/25/00	5/25/00	5/25/00					
Crop Code*	ZEAMX	ZEAMX	PHSVN	PHSVN	PHSVN	PHSVN	PHSVN					
Part/Sub Eval*	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT					
Evaluation Type*	STUNTING	INJURY	CHLORO	STUNTING	INJURY	CHLORO	STUNTING					
Eval Unit/Scale*	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL					
Sample Size												
Sample Unit*												
Trt-Eval Interval	28DAA	28DAA										
User Option 1			STRIKE	STRIKE	STRIKE	BRONCO	BRONCO					
User Option 2			7DAE	7DAE	7DAE	7DAE	7DAE					
PRM Data Type*	P	P	P	P	P	P	P					
Trt No	Appl Code	Treatment Name*	Form Conc	Fm Ds*	Timing/ Dev Stg	8	9	10	11	12	13	14
1		UNTREATED				0 d	0 c	0 d	0 c	0 d	0 b	0 c
2	A	HORNET	85.6	WG	V5-V6	2.5 cd	1.3 c	7.5 bc	5.5 b	7.5 c	11.3 a	6.8 b
	A	NONIONIC		SL	V5-V6							
	A	UAN 28%		SL	V5-V6							
3	A	HORNET	85.6	WG	V5-V6	5 bcd	5 bc	7 c	5.3 b	9 bc	11.8 a	6.8 b
	A	NONIONIC		SL	V5-V6							
	A	UAN 28%		SL	V5-V6							
4	A	HORNET	85.6	WG	V5-V6	7.5 bc	7.5 b	15 a	7.5 ab	11.3 ab	15 a	12.5 ab
	A	NONIONIC		SL	V5-V6							
	A	UAN 28%		SL	V5-V6							
5	A	STINGER	360	SL	V5-V6	10 ab	10 ab	11.3 ab	8.8 a	13 a	10.8 a	12 ab
	A	NONIONIC		SL	V5-V6							
	A	UAN 28%		SL	V5-V6							
6	A	NORTHSTAR	47.4	WG	V5-V6	15 a	15 a	10 bc	7 ab	13.3 a	12.5 a	10 ab
	A	NONIONIC		SL	V5-V6							
	A	UAN 28%		SL	V5-V6							
7	A	ACCENT	75	WG	V5-V6	7.5 bc	7.5 b	7 c	4.8 b	8.3 bc	11.3 a	13.8 a
	A	NONIONIC		SL	V5-V6							
LSD (P=.05)						6.07	6.01	4.18	3.23	3.7	7.46	6.59
Standard Deviation						4.08	4.05	2.81	2.17	2.49	5.02	4.44
CV						60.16	61.23	34.1	39.26	28.01	48.48	50.29

Means followed by same letter do not significant

# The Ohio Sta

Trial Type: RES Protocol No.: NA9:  
 Discipline:\* HERBICIDE DED#:\* P:  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES P:  
 Trial Category:\* TOLER/CROP ROT.

Title: SENSITIVITY OF VEGETABLE CRO:  
 APPLIED THE PREVIOUS YEAR (HORNET C

Business Unit:\* US MIDWEST

Observation No.	15	22	23	24	25	26	27	28
Evaluation Date	5/25/00	6/1/00	6/1/00	6/1/00	5/25/00	5/25/00	5/25/00	6/16/00
Crop Code*	PHSVN	SOLTU	SOLTU	SOLTU	BRSOL	BRSOL	BRSOL	LYPES
Part/Sub Eval*	PLANT	PLANT	PLANT	PLANT				
Evaluation Type*	INJURY	CHLORO	STUNTING	INJURY	CHLORO	STUNTING	INJURY	CHLORO
Eval Unit/Scale*	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL
Sample Size								
Sample Unit*								
Trt-Eval Interval								
User Option 1	BRONCOS	SUPERIOR	SUPERIOR	UPERIOR	CHEERS	CHEERS	CHEERS	HEIN9423
User Option 2	7DAE	7DAE	7DAE	7DAE	7DAE	7DAE	7DAE	7DAE
PRM Data Type*	P	P	P	P	P	P	P	P
Trt No	15	16	17	18	19	20	21	22
1	0 c	0 a	0 e	0 f	0 a	0 d	0 e	0 a
2 A	9.3 b	0 a	8.8 c	10 d	0 a	30 b	30 b	0 a
A								
A								
3 A	12.5 ab	1.3 a	17.5 b	17.5 b	0 a	45 a	45 a	0 a
A								
A								
4 A	17.5 a	1.3 a	21.3 a	21.3 a	0 a	48.8 a	48.8 a	0 a
A								
A								
5 A	14.5 ab	1.3 a	14.3 b	14.3 c	0 a	11.8 c	11.8 d	0 a
A								
A								
6 A	15 ab	0 a	5 d	5 e	0 a	22.5 b	22.5 bc	0 a
A								
A								
7 A	16.3 ab	0 a	10 c	10 d	0 a	12.5 c	15 cd	0 a
A								
LSD (P=.05)	7.97	1.99	3.37	3.15	0	8.48	9.56	0
Standard Deviation	5.36	1.34	2.27	2.12	0	5.71	6.43	0
CV	44.16	249.44	20.68	19.01	0	23.44	26.03	0

Means followed by same letter do not significant



# The Ohio Sta

Trial Type: RES Protocol No.: NA9:  
 Discipline:\* HERBICIDE DED#:\* P:  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES P:  
 Trial Category:\* TOLER/CROP ROT.

Title: SENSITIVITY OF VEGETABLE CRO:  
 APPLIED THE PREVIOUS YEAR (HORNET C:

Business Unit:\* US MIDWEST

Observation No.	29	30	31	32	33	34	35	36	40					
Evaluation Date	6/16/00	6/16/00	6/16/00	6/16/00	6/16/00	6/16/00	6/16/00	6/16/00	6/1/00					
Crop Code*	LYPES	LYPES	LYPES	LYPES	LYPES	CPSAN	CPSAN	CPSAN	PHSVN					
Part/Sub Eval*									PLANT					
Evaluation Type*	STUNTING	INJURY	CHLORO	STUNTING	INJURY	CHLORO	STUNTING	INJURY	CHLORO					
Eval Unit/Scale*	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL					
Sample Size														
Sample Unit*														
Trt-Eval Interval														
User Option 1	HEIN9423	HEIN9423	SEED696	PSEED696	SEED696	IRTHSTAR	NRTHSTAR	IRTHSTAR	STRIKE					
User Option 2	7DAE	7DAE	7DAE	7DAE	7DAE	7DAE	7DAE	7DAE	14DAE					
PRM Data Type*	P	P	P	P	P	P	P	P	P					
Trt No	Appl Code	Treatment Name*	Form Conc	Fm Ds*	Timing/ Dev Stg	23	24	25	26	27	28	29	30	31
1		UNTREATED				0 b	0 b	0 a	0 b	0 b	0 a	0 a	0 a	0 a
2	A	HORNET	85.6	WG	V5-V6	0 b	0 b	0 a	0 b	0 b	1.3 a	2.5 a	2.5 a	1.3 a
	A	NONIONIC		SL	V5-V6									
	A	UAN 28%		SL	V5-V6									
3	A	HORNET	85.6	WG	V5-V6	5 a	5 a	0 a	5 a	5 a	1.3 a	2.5 a	2.5 a	1.3 a
	A	NONIONIC		SL	V5-V6									
	A	UAN 28%		SL	V5-V6									
4	A	HORNET	85.6	WG	V5-V6	5 a	5 a	0 a	5 a	5 a	1.3 a	2.5 a	2.5 a	3.8 a
	A	NONIONIC		SL	V5-V6									
	A	UAN 28%		SL	V5-V6									
5	A	STINGER	360	SL	V5-V6	0 b	0 b	0 a	0 b	0 b	0 a	1.3 a	1.3 a	3.8 a
	A	NONIONIC		SL	V5-V6									
	A	UAN 28%		SL	V5-V6									
6	A	NORTHSTAR	47.4	WG	V5-V6	0 b	0 b	0 a	0 b	0 b	0 a	0 a	0 a	3.8 a
	A	NONIONIC		SL	V5-V6									
	A	UAN 28%		SL	V5-V6									
7	A	ACCENT	75	WG	V5-V6	0 b	0 b	0 a	0 b	0 b	1.3 a	1.3 a	1.3 a	1.3 a
	A	NONIONIC		SL	V5-V6									
LSD (P=.05)						3.24	3.24	0	3.24	3.24	1.99	3.34	3.34	3.83
Standard Deviation						2.18	2.18	0	2.18	2.18	1.34	2.25	2.25	2.58
CV						152.75	152.75	0	152.75	152.75	187.08	157.45	157.45	120.31

Means followed by same letter do not significant

## The Ohio Sta

Trial Type: RES Protocol No.: NA9:  
 Discipline:\* HERBICIDE DED#:\* P:  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES P:  
 Trial Category:\* TOLER/CROP ROT.

Title: SENSITIVITY OF VEGETABLE CRO:  
 APPLIED THE PREVIOUS YEAR (HORNET C

Business Unit:\* US MIDWEST

Observation No.	41	42	43	44	45	52	53	54	55
Evaluation Date	6/1/00	6/1/00	6/1/00	6/1/00	6/1/00	6/8/00	6/8/00	6/8/00	6/1/00
Crop Code*	PHSVN	PHSVN	PHSVN	PHSVN	PHSVN	SOLTU	SOLTU	SOLTU	BRSOL
Part/Sub Eval*	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	
Evaluation Type*	STUNTING	INJURY	CHLORO	STUNTING	INJURY	CHLORO	STUNTING	INJURY	CHLORO
Eval Unit/Scale*	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL
Sample Size									
Sample Unit*									
Trt-Eval Interval									
User Option 1	STRIKE	STRIKE	BRONCO	BRONCO	BRONCO	SUPERIOR	SUPERIOR	SUPERIOR	CHEERS
User Option 2	14DAE	14DAE	14DAE	14DAE	14DAE	14DAE	14DAE	14DAE	14DAE
PRM Data Type*	P	P	P	P	P	P	P	P	P
Trt Appl Treatment Form Fm Timing/	32	33	34	35	36	37	38	39	40
No Code Name* Conc Ds* Dev Stg									
1 UNTREATED	0 c	0 c	0 b	0 c	0 d	0 a	0 e	0 e	0 a
2 A HORNET 85.6 WG V5-V6	10 b	10 b	6.3 a	10.5 ab	10.5 bc	0 a	12.5 d	12.5 d	0 a
A NONIONIC SL V5-V6									
A UAN 28% SL V5-V6									
3 A HORNET 85.6 WG V5-V6	15 a	15 a	2.5 ab	13.8 a	15 a	0 a	47.5 b	47.5 b	0 a
A NONIONIC SL V5-V6									
A UAN 28% SL V5-V6									
4 A HORNET 85.6 WG V5-V6	13.5 a	13.5 a	6.3 a	13.5 a	14.3 ab	0 a	73.8 a	73.8 a	0 a
A NONIONIC SL V5-V6									
A UAN 28% SL V5-V6									
5 A STINGER 360 SL V5-V6	10 b	10 b	5 a	7.5 b	8.8 c	0 a	17 c	17 c	0 a
A NONIONIC SL V5-V6									
A UAN 28% SL V5-V6									
6 A NORTHSTAR 47.4 WG V5-V6	8.8 b	8.8 b	2.5 ab	8.8 b	8.8 c	0 a	10.5 d	10.5 d	0 a
A NONIONIC SL V5-V6									
A UAN 28% SL V5-V6									
7 A ACCENT 75 WG V5-V6	10 b	10 b	6.3 a	8.8 b	8.8 c	0 a	8.8 d	8.8 d	0 a
A NONIONIC SL V5-V6									
LSD (P=.05)	2.81	2.81	4.03	3.72	3.99	0	4.13	4.13	0
Standard Deviation	1.89	1.89	2.71	2.5	2.68	0	2.78	2.78	0
CV	19.7	19.7	65.97	27.9	28.47	0	11.43	11.43	0

Means followed by same letter do not significant

## The Ohio Sta

Trial Type: RES Protocol No.: NA9:  
 Discipline:\* HERBICIDE DED#:\* P:  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES P:  
 Trial Category:\* TOLER/CROP ROT.

Title: SENSITIVITY OF VEGETABLE CRO:  
 APPLIED THE PREVIOUS YEAR (HORNET C:

Business Unit:\* US MIDWEST

Observation No.	55	57	58	59	60	61					
Evaluation Date	6/1/00	6/1/00	6/22/00	6/22/00	6/22/00	6/22/00					
Crop Code*	BRSOL	BRSOL	LYPES	LYPES	LYPES	LYPES					
Part/Sub Eval*											
Evaluation Type*	STUNTING	INJURY	CHLORO	STUNTING	INJURY	CHLORO					
Eval Unit/Scale*	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL					
Sample Size											
Sample Unit*											
Trt-Eval Interval											
User Option 1	CHEERS	CHEERS	HEIN9423	HEIN9423	HEIN9423	PSEED696					
User Option 2	14DAE	14DAE	14DAE	14DAE	14DAE	14DAE					
PRM Data Type*	P	P	P	P	P	P					
Trt No	Appl Code	Treatment Name*	Form Conc	Fm Ds*	Timing/ Dev Stg	41	42	43	44	45	46
1		UNTREATED				0 c	0 c	0 a	0 d	0 d	0 a
2	A	HORNET	85.6	WG	V5-V6	66.3 a	66.3 a	0 a	28.8 b	28.8 b	0 a
	A	NONIONIC		SL	V5-V6						
	A	UAN 28%		SL	V5-V6						
3	A	HORNET	85.6	WG	V5-V6	66.3 a	66.3 a	0 a	45 a	45 a	0 a
	A	NONIONIC		SL	V5-V6						
	A	UAN 28%		SL	V5-V6						
4	A	HORNET	85.6	WG	V5-V6	51.3 ab	51.3 ab	0 a	48.8 a	48.8 a	0 a
	A	NONIONIC		SL	V5-V6						
	A	UAN 28%		SL	V5-V6						
5	A	STINGER	360	SL	V5-V6	23.8 bc	23.8 bc	0 a	10 c	10 c	0 a
	A	NONIONIC		SL	V5-V6						
	A	UAN 28%		SL	V5-V6						
6	A	NORTHSTAR	47.4	WG	V5-V6	18.3 c	18.3 c	0 a	2.5 d	2.5 d	0 a
	A	NONIONIC		SL	V5-V6						
	A	UAN 28%		SL	V5-V6						
7	A	ACCENT	75	WG	V5-V6	23.8 bc	23.8 bc	0 a	13.8 c	13.8 c	0 a
	A	NONIONIC		SL	V5-V6						
LSD (P=.05)						31.29	31.29	0	7.13	7.13	0
Standard Deviation						21.06	21.06	0	4.8	4.8	0
CV						59.08	59.08	0	22.58	22.58	0

Means followed by same letter do not significant

# The Ohio Sta

Trial Type: RES Protocol No.: NA9:  
 Discipline:\* HERBICIDE DED#:\* P:  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES P:  
 Trial Category:\* TOLER/CROP ROT.

Title: SENSITIVITY OF VEGETABLE CRO:  
 APPLIED THE PREVIOUS YEAR (HORNET C

Business Unit:\* US MIDWEST

Observation No.	62	63	64	65	66	70	71	72					
Evaluation Date	6/22/00	6/22/00	6/22/00	6/22/00	6/22/00	6/15/00	6/15/00	6/15/00					
Crop Code*	LYPES	LYPES	CPSAN	CPSAN	CPSAN	PHSVN	PHSVN	PHSVN					
Part/Sub Eval*						PLANT	PLANT	PLANT					
Evaluation Type*	STUNTING	INJURY	CHLORO	STUNTING	INJURY	CHLORO	STUNTING	INJURY					
Eval Unit/Scale*	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL					
Sample Size													
Sample Unit*													
Trt-Eval Interval													
User Option 1	PSEED696	SEED696	RTHSTAR	NRTHSTAR	IRTHSTAR	STRIKE	STRIKE	STRIKE					
User Option 2	14DAE	14DAE	14DAE	14DAE	14DAE	28DAE	28DAE	28DAE					
PRM Data Type*	P	P	P	P	P	P	P	P					
Trt No	Appl Code	Treatment Name*	Form Conc	Fm Ds*	Timing/ Dev Stg	47	48	49	50	51	52	53	54
1		UNTREATED				0 d	0 d	0 b	0 c	0 c	0 a	0 b	0 b
2	A	HORNET	85.6	WG	V5-V6	30 b	30 b	2.5 ab	10 a	10 ab	0 a	1.3 b	1.3 b
	A	NONIONIC		SL	V5-V6								
	A	UAN 28%		SL	V5-V6								
3	A	HORNET	85.6	WG	V5-V6	47.5 a	47.5 a	2.5 ab	12.5 a	12.5 a	0 a	8.8 a	8.8 a
	A	NONIONIC		SL	V5-V6								
	A	UAN 28%		SL	V5-V6								
4	A	HORNET	85.6	WG	V5-V6	42.5 a	42.5 a	3.8 a	10 a	15 a	0 a	10 a	10 a
	A	NONIONIC		SL	V5-V6								
	A	UAN 28%		SL	V5-V6								
5	A	STINGER	360	SL	V5-V6	10 cd	10 cd	2.5 ab	7.5 ab	7.5 abc	0 a	5 ab	5 ab
	A	NONIONIC		SL	V5-V6								
	A	UAN 28%		SL	V5-V6								
6	A	NORTHSTAR	47.4	WG	V5-V6	2.5 d	2.5 d	1.3 ab	3.8 bc	3.8 bc	0 a	0 b	0 b
	A	NONIONIC		SL	V5-V6								
	A	UAN 28%		SL	V5-V6								
7	A	ACCENT	75	WG	V5-V6	13.8 c	13.8 c	2.5 ab	8.8 ab	8.8 ab	0 a	5 ab	5 ab
	A	NONIONIC		SL	V5-V6								
LSD (P=.05)						10.62	10.62	3	6.19	7.59	0	5.71	5.71
Standard Deviation						7.15	7.15	2.02	4.17	5.11	0	3.84	3.84
CV						34.21	34.21	94.12	55.56	62.18	0	89.71	89.71

Means followed by same letter do not significant

# The Ohio Sta

Trial Type: RES Protocol No.: NA9:  
 Discipline:\* HERBICIDE DED#:\* P:  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES P:  
 Trial Category:\* TOLER/CROP ROT.

Title: SENSITIVITY OF VEGETABLE CRO:  
 APPLIED THE PREVIOUS YEAR (HORNET C:

Business Unit:\* US MIDWEST

Observation No.	73	74	75	82	83	84	85	86					
Evaluation Date	6/15/00	6/15/00	6/15/00	6/22/00	6/22/00	6/22/00	6/15/00	6/15/00					
Crop Code*	PHSVN	PHSVN	PHSVN	SOLTU	SOLTU	SOLTU	BRSOL	BRSOL					
Part/Sub Eval*	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT					
Evaluation Type*	CHLORO	STUNTING	INJURY	CHLORO	STUNTING	INJURY	CHLORO	STUNTING					
Eval Unit/Scale*	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL					
Sample Size													
Sample Unit*													
Trt-Eval Interval													
User Option 1	BRONCO	BRONCO	BRONCO	SUPERIOR	SUPERIOR	SUPERIOR	CHEERS	CHEERS					
User Option 2	28DAE	28DAE	28DAE	28DAE	28DAE	28DAE	28DAE	28DAE					
PRM Data Type*	P	P	P	P	P	P	P	P					
Trt No	Appl Code	Treatment Name*	Form Conc	Fm Ds*	Timing/ Dev Stg	55	56	57	58	59	60	61	62
1		UNTREATED				0 a	0 c	0 c	0 a	0 f	0 f	0 a	0 d
2	A	HORNET	85.6	WG	V5-V6	0 a	2.5 c	2.5 c	0 a	15 de	15 de	0 a	93.8 a
	A	NONIONIC		SL	V5-V6								
	A	UAN 28%		SL	V5-V6								
3	A	HORNET	85.6	WG	V5-V6	0 a	8.8 ab	8.8 ab	0 a	47.5 b	47.5 b	0 a	99 a
	A	NONIONIC		SL	V5-V6								
	A	UAN 28%		SL	V5-V6								
4	A	HORNET	85.6	WG	V5-V6	0 a	11.3 a	11.3 a	0 a	78.8 a	78.8 a	0 a	99 a
	A	NONIONIC		SL	V5-V6								
	A	UAN 28%		SL	V5-V6								
5	A	STINGER	360	SL	V5-V6	0 a	8.8 ab	8.8 ab	0 a	16.3 d	16.3 d	0 a	23.8 b
	A	NONIONIC		SL	V5-V6								
	A	UAN 28%		SL	V5-V6								
6	A	NORTHSTAR	47.4	WG	V5-V6	0 a	3.8 bc	3.8 bc	0 a	3.8 ef	3.8 ef	0 a	15 c
	A	NONIONIC		SL	V5-V6								
	A	UAN 28%		SL	V5-V6								
7	A	ACCENT	75	WG	V5-V6	0 a	10 a	10 a	0 a	33.8 c	33.8 c	0 a	28.8 b
	A	NONIONIC		SL	V5-V6								
LSD (P=.05)						0	5.54	5.54	0	11.58	11.58	0	5.34
Standard Deviation						0	3.73	3.73	0	7.79	7.79	0	3.59
CV						0	57.97	57.97	0	27.97	27.97	0	7

Means followed by same letter do not significant

# The Ohio Sta

Trial Type: RES Protocol No.: NA9:  
 Discipline:\* HERBICIDE DED#:\* P:  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES P:  
 Trial Category:\* TOLER/CROP ROT.

Title: SENSITIVITY OF VEGETABLE CRO:  
 APPLIED THE PREVIOUS YEAR (HORNET C

Business Unit:\* US MIDWEST

Observation No.	87	88	89	90	91	92	93	94					
Evaluation Date	6/15/00	7/6/00	7/6/00	7/6/00	7/6/00	7/6/00	7/6/00	7/6/00					
Crop Code*	BRSOL	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	CPSAN					
Part/Sub Eval*													
Evaluation Type*	INJURY	CHLORO	STUNTING	INJURY	CHLORO	STUNTING	INJURY	CHLORO					
Eval Unit/Scale*	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL					
Sample Size													
Sample Unit*													
Trt-Eval Interval													
User Option 1	CHEERS	HEIN9423	HEIN9423	HEIN9423	PSEED696	PSEED696	PSEED696	NRTHSTAR					
User Option 2	28DAE	28DAE	28DAE	28DAE	28DAE	28DAE	28DAE	28DAE					
PRM Data Type*	P	P	P	P	P	P	P	P					
Trt No	Appl Code	Treatment Name*	Form Conc	Fm Ds*	Timing/ Dev Stg	63	64	65	66	67	68	69	70
1		UNTREATED				0 d	0 a	0 d	0 d	0 a	0 d	0 d	0 b
2	A	HORNET	85.6	WG	V5-V6	93.8 a	0 a	28.8 c	28.8 c	0 a	28.8 c	28.8 c	1.3 ab
	A	NONIONIC		SL	V5-V6								
	A	UAN 28%		SL	V5-V6								
3	A	HORNET	85.6	WG	V5-V6	99 a	0 a	56.3 b	56.3 b	0 a	56.3 b	56.3 b	3.8 a
	A	NONIONIC		SL	V5-V6								
	A	UAN 28%		SL	V5-V6								
4	A	HORNET	85.6	WG	V5-V6	99 a	1.3 a	83.8 a	83.8 a	1.3 a	83.8 a	83.8 a	2.5 ab
	A	NONIONIC		SL	V5-V6								
	A	UAN 28%		SL	V5-V6								
5	A	STINGER	360	SL	V5-V6	23.8 b	0 a	10 d	10 d	0 a	10 d	10 d	0 b
	A	NONIONIC		SL	V5-V6								
	A	UAN 28%		SL	V5-V6								
6	A	NORTHSTAR	47.4	WG	V5-V6	15 c	0 a	0 d	0 d	0 a	0 d	0 d	0 b
	A	NONIONIC		SL	V5-V6								
	A	UAN 28%		SL	V5-V6								
7	A	ACCENT	75	WG	V5-V6	27.5 b	0 a	8.8 d	8.8 d	0 a	8.8 d	8.8 d	0 b
	A	NONIONIC		SL	V5-V6								
LSD (P=.05)						5.83	1.4	10.29	10.29	1.4	10.29	10.29	3.53
Standard Deviation						3.92	0.94	6.93	6.93	0.94	6.93	6.93	2.38
CV						7.67	529.15	25.87	25.87	529.15	25.87	25.87	221.94

Means followed by same letter do not significant

## The Ohio Sta

Trial Type: RES Protocol No.: NA9:  
 Discipline:\* HERBICIDE DED#:\* P:  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES P:  
 Trial Category:\* TOLER/CROP ROT.

Title: SENSITIVITY OF VEGETABLE CRO:  
 APPLIED THE PREVIOUS YEAR (HORNET C:

Business Unit:\* US MIDWEST

Observation No.	95	96	100	101	102	103	104	105
Evaluation Date	7/6/00	7/6/00	6/29/00	6/29/00	6/29/00	6/29/00	6/29/00	6/29/00
Crop Code*	CPSAN	CPSAN	PHSVN	PHSVN	PHSVN	PHSVN	PHSVN	PHSVN
Part/Sub Eval*			PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Evaluation Type*	STUNTING	INJURY	CHLORO	STUNTING	INJURY	CHLORO	STUNTING	INJURY
Eval Unit/Scale*	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL
Sample Size								
Sample Unit*								
Trt-Eval Interval								
User Option 1	NRTHSTAR	NRTHSTAR	STRIKE	STRIKE	STRIKE	BRONCO	BRONCO	BRONCO
User Option 2	28DAE	28DAE	42DAE	42DAE	42DAE	42DAE	42DAE	42DAE
PRM Data Type*	P	P	P	P	P	P	P	P
Trt No	71	72	73	74	75	76	77	78
Appl Code								
Treatment Name*								
Form Conc								
Fm Ds*								
Timing/ Dev Stg								
1	0 c	0 c	0 b	0 d	0 d	0 a	0 c	0 c
2 A	10 bc	10 bc	2.5 a	7.5 bc	7.5 bc	1.3 a	8.8 b	8.8 b
A								
A								
3 A	35 a	35 a	2.5 a	10.5 b	10.5 b	2.5 a	11.3 b	11.8 b
A								
A								
4 A	36.3 a	36.3 a	2.5 a	17.5 a	17.5 a	2.5 a	20 a	20 a
A								
A								
5 A	12.5 bc	12.5 bc	1.3 ab	5 c	5 c	1.3 a	8.8 b	8.8 b
A								
A								
6 A	0 c	0 c	1.3 ab	5 c	5 c	1.3 a	7.5 b	7.5 b
A								
A								
7 A	27.5 ab	27.5 ab	1.3 ab	5 c	5 c	1.3 a	10 b	10 b
A								
LSD (P=.05)	18.53	18.53	2.29	4.79	4.79	2.73	4.86	4.95
Standard Deviation	12.48	12.48	1.54	3.22	3.22	1.84	3.27	3.33
CV	72.03	72.03	96.01	44.66	44.66	128.56	34.59	34.93

Means followed by same letter do not significant

# The Ohio Sta

Trial Type: RES Protocol No.: NA9:  
 Discipline:\* HERBICIDE DED#:\* P:  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES P:  
 Trial Category:\* TOLER/CROP ROT.

Title: SENSITIVITY OF VEGETABLE CRO:  
 APPLIED THE PREVIOUS YEAR (HORNET C:

Business Unit:\* US MIDWEST

Observation No.	112	113	114	115	116	117	118	119
Evaluation Date	7/6/00	7/6/00	7/6/00	6/29/00	6/29/00	6/29/00	7/20/00	7/20/00
Crop Code*	SOLTU	SOLTU	SOLTU	BRSOL	BRSOL	BRSOL	LYPES	LYPES
Part/Sub Eval*	PLANT	PLANT	PLANT					
Evaluation Type*	CHLORO	STUNTING	INJURY	CHLORO	STUNTING	INJURY	CHLORO	STUNTING
Eval Unit/Scale*	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL
Sample Size								
Sample Unit*								
Trt-Eval Interval								
User Option 1	SUPERIOR	SUPERIOR	SUPERIOR	CHEERS	CHEERS	CHEERS	HEIN9423	HEIN9423
User Option 2	42DAE	42DAE	42DAE	42DAE	42DAE	42DAE	42DAE	42DAE
PRM Data Type*	P	P	P	P	P	P	P	P
Trt No	79	80	81	82	83	84	85	86
Appl Code								
Treatment Name*	UNTREATED							
Form Conc								
Fm DS*								
Timing/ Dev Stg								
1	0 a	0 e	0 e	0 a	0 d	0 d	0 a	0 d
2 A	0 a	15 cd	15 cd	0 a	93.8 a	93.8 a	0 a	10 c
A								
A								
3 A	0 a	53.8 b	53.8 b	0 a	98 a	98 a	0 a	58.8 b
A								
A								
4 A	0 a	83.8 a	83.8 a	0 a	99 a	99 a	0 a	86.3 a
A								
A								
5 A	0 a	7.5 cde	7.5 cde	0 a	31.3 b	31.3 b	0 a	5 cd
A								
A								
6 A	0 a	5 de	5 de	0 a	2.5 d	2.5 d	0 a	1.3 d
A								
A								
7 A	0 a	18.8 c	18.8 c	0 a	20 c	20 c	0 a	2.5 cd
A								
LSD (P=.05)	0	11.61	11.61	0	5.62	5.62	0	7.93
Standard Deviation	0	7.82	7.82	0	3.78	3.78	0	5.34
CV	0	29.78	29.78	0	7.69	7.69	0	22.81

Means followed by same letter do not significant



# The Ohio Sta

Trial Type: RES Protocol No.: NA9:  
 Discipline:\* HERBICIDE DED#:\* P:  
 Region(s):\* U.S./CANADA  
 Country:\* UNITED STATES P:  
 Trial Category:\* TOLER/CROP ROT.

Title: SENSITIVITY OF VEGETABLE CRO:  
 APPLIED THE PREVIOUS YEAR (HORNET C:

Business Unit:\* US MIDWEST

Observation No.	120	121	122	123	124	125	126	134
Evaluation Date	7/20/00	7/20/00	7/20/00	7/20/00	7/20/00	7/20/00	7/20/00	
Crop Code*	LYPES	LYPES	LYPES	LYPES	CPSAN	CPSAN	CPSAN	SOLTU
Part/Sub Eval*								TUBER
Evaluation Type*	INJURY	CHLORO	STUNTING	INJURY	CHLORO	STUNTING	INJURY	YIELD
Eval Unit/Scale*	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	LBS/2ROW
Sample Size								1
Sample Unit*								PLOT
Trt-Eval Interval								
User Option 1	HEIN9423	PSEED696	PSEED696	PSEED696	NRTHSTAR	NRTHSTAR	NRTHSTAR	>3.25"
User Option 2	42DAE	42DAE	42DAE	42DAE	42DAE	42DAE	42DAE	
PRM Data Type*	P	P	P	P	P	P	P	A
Trt No	87	88	89	90	91	92	93	94
Appl Code								
Treatment Name*	UNTREATED							
Form Conc								
Fm Ds*								
Timing/ Dev Stg								
1	0 d	0 a	0 d	0 d	0 b	0 c	0 c	20.687 a
2 A	10 c	0 a	11.3 c	11.3 c	0 b	10 c	10 c	13.812 ab
A								
A								
3 A	58.8 b	0 a	60 b	60 b	2.5 b	35 b	35 b	10.188 ab
A								
A								
4 A	86.3 a	0 a	81.3 a	81.3 a	12.5 a	66.3 a	66.3 a	3.688 b
A								
A								
5 A	5 cd	0 a	2.5 cd	2.5 cd	0 b	11.3 c	11.3 c	12.6 ab
A								
A								
6 A	1.3 d	0 a	1.3 d	1.3 d	0 b	2.5 c	2.5 c	15.063 ab
A								
A								
7 A	2.5 cd	0 a	3.8 cd	2.5 cd	0 b	15 c	15 c	4.012 b
A								
LSD (P=.05)	7.93	0	9.5	9.82	4.08	16.76	16.76	14.4455
Standard Deviation	5.34	0	6.39	6.61	2.75	11.28	11.28	9.7235
CV	22.81	0	27.96	29.14	128.14	56.41	56.41	85.03

Means followed by same letter do not significant

# The Ohio State University

## KERB ON LETTUCE 2000

Trial ID: LETTCCVILLE-00      Study Dir.: DR.DOUGLAS J.DOOHAN AND T.KOCH  
 Location: CELERYVILLE      Investigator: Dr. Douglas J. Doohan

### GENERAL TRIAL INFORMATION

Study Director: DR.DOUGLAS J. DOOHAN AND TIM 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: CELERYVILLE  
 State/Prov.: OHIO  
 Postal Code: 44890      Initiation Date: Jul-11-00  
 Country: USA  
 Directions: SR 224 WEST TO WILLARD .THEN TAKE SR 101 SOUTH 3 MILES TO MUCK CROP BRANCH.

### COOPERATOR/LANDOWNER

Cooperator: BILL EVANS,MGR  
 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 VARIED RATES OF "KERB" WITH AND WITHOUT IRRIGATION.

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	AMAXX	PIGWEEED SPECIES	AMARANTHUS SPP.
2	POROL	PURSLANE, COMMON	PORTULACA OLERACEA L.

Crop 1: LACSA LETTUCE      Variety: ESMERELDA  
 Planting Date: Jul-11-00      Planting Method: CONVENTIONAL SEEDER  
 Rate: 4 SEEDS/FT      Depth: 1.5 IN      Perennial Age: 0 0  
 Row Spacing: 19 IN.      Seed Bed: CONVENTIONAL  
 Soil Temperature: 74 F      Soil Moisture: MOIST      Emergence Date: Jul-15-00

### SITE AND DESIGN

Plot Width, Unit: 6 FT      Plot Length, Unit: 30 FT      Reps: 4  
 Site Type: MUCK  
 Tillage Type: CONVENTIONAL      Study Design: RANDOMIZED COMPLETE BLOCK

### MAINTENANCE

Field Prep./Maintenance: 8/11/00:RONILAN@2#/A + LANNATE LV @ 3PT./A

# The Ohio State University

KERB ON LETTUCE 2000

## 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
Application Date:	07/11/2000
Time of Day:	12-1PM
Application Method:	SPRAY
Application Timing:	PREEM
Applic. Placement:	BDCST.
Air Temp., Unit:	70 F
% Relative Humidity:	81
Wind Velocity, Unit:	6 MPH
Dew Presence (Y/N):	N
Water Hardness:	SOFT
Soil Temp., Unit:	74 F
Soil Moisture:	MOIST
% Cloud Cover:	50

## CROP STAGE AT EACH APPLICATION

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

## WEED STAGE AT EACH APPLICATION

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

## APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	35 PSI
Nozzle Type:	FFAN
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.	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

KERB ON LETTUCE 2000

## Trial Comments

DESIGN IS SPLIT PLOT; MAIN PLOT IS HERBICIDE TMT. SUBPLOT= TIMING OF IRRIGATION; PLOT SIZE IS 7 X 30' WITH BILL EVANS(MGR,)& CREW BUILT 15' X 6' SHELTERS FOR THE IRRIGATION PHASE OF THE EXPERIMENT, AND USED A

PLANTED 7/11/00-SPRAYED PREEMS SAME DAY

IRRIGATION TIMINGS:(A)=2 HOURS AFTER "KERB" APPLICATION FOR A TOTAL OF 1.1" WATER = ERLY IRR

(B)=72 HOURS AFTER"KERB" APPLICATION FOR A TOTAL OF .65" WATER = LATE IRR. THERE WAS ALSO HEAVY

WEED RATINGS: 7/18 & 7/26 : NO SIGNIFICANT WEED EMERGENCE ON 7/18.

WEED COUNTS:TWO .50X.50 M. QUADRATS PER 15 FEET OF ROW;DESIGNATED "1" & "2" UNDER PART RATED

BIOMASS:WEED WEIGHTS D ONE ON SAME QUADRATS.; DESIGNATED "1" & "2" UNDER PART RATED

WEEDS WITHIN QUADRATS WERE CUT AT GROUND LEVEL WITH SHEARS,THEN WEIGHED. WEED WEIGHTS

PLOT#201 AND ALL OF REP 4 SUFFERED SEVERE FLOODING.

DUE TO SEVERE FLOODING,YIELDS WERE NOT POSSIBLE.

# The Ohio State University

**KERB ON LETTUCE 2000**

Trial ID: LETTCCVILLE-00    Study Dir.: DR. D. J. DOOHAN AND T.KOCH  
 Location: CELERYVILLE    Investigator: Dr. Douglas J. Doohan

Weed Code								AMAXX	AMAXX
Crop Code								LACSA	LACSA
Part Rated								P	P
Rating Data Type								%CONTROL	%CONTROL
Rating Unit								ERLY IRR	LATE IRR
Rating Date								7/26/00	7/26/00
# Subsamples, Dec.								0	0
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2
1	HAND WEEDED CONTROL							0 c	19 b
2	KERB	50 W		2 LB/A		PRE	A	10 bc	10 b
3	KERB	50 W		4 LB/A		PRE	A	21 abc	38 ab
4	KERB	50 W		8 LB/A		PRE	A	54 a	63 a
5	KERB	50 W		12 LB/A		PRE	A	40 ab	44 ab
LSD (P=.05)								39.2	43.1
Standard Deviation								25.5	28
CV								101.83	81.05

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

# The Ohio State University

**KERB ON LETTUCE 2000**

Trial ID: LETTCCVILLE-00    Study Dir.: DR. D. J. DOOHAN AND T.KOCH  
 Location: CELERYVILLE    Investigator: Dr. Douglas J. Doohan

Weed Code							POROL	POROL	AMAXX	AMAXX	
Crop Code							LACSA	LACSA	LACSA	LACSA	
Part Rated							P	P	1	2	
Rating Data Type							%CONTROL	%CONTROL	WD COUNT	WD COUNT	
Rating Unit							ERLY IRR	LATE IRR	ERLY IRR	ERLY IRR	
Rating Date							7/26/00	7/26/00	8/3/00	8/3/00	
# Subsamples, Dec.							0	0	0		
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	3	4	5	6
1	HAND WEEDED CONTROL							0 c	21 a	13 ab	14 ab
2	KERB	50	W	2	LB/A	PRE	A	10 bc	25 a	20 a	18 ab
3	KERB	50	W	4	LB/A	PRE	A	51 ab	49 a	21 a	21 a
4	KERB	50	W	8	LB/A	PRE	A	69 a	68 a	17 ab	12.5 b
5	KERB	50	W	12	LB/A	PRE	A	49 ab	48 a	11 b	11.8 b
LSD (P=.05)							46.1	55.3	8.3	7.64	
Standard Deviation							29.9	35.9	5.4	4.96	
CV							83.77	85.1	33.33	32.08	

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

# The Ohio State University

**KERB ON LETTUCE 2000**

Trial ID: LETTCCVILLE-00    Study Dir.: DR. D. J. DOOHAN AND T.KOCH  
 Location: CELERYVILLE    Investigator: Dr. Douglas J. Doohan

Weed Code							AMAXX	AMAXX	POROL	POROL			
Crop Code							LACSA	LACSA	LACSA	LACSA			
Part Rated							1	2	1	2			
Rating Data Type							WD COUNT	WD COUNT	WD COUNT	WD COUNT			
Rating Unit							LATE IRR	LATE IRR	ERLY IRR	ERLY IRR			
Rating Date							8/3/00	8/3/00	8/3/00	8/3/00			
# Subsamples, Dec.							0	0	0	0			
Trt	Treatment	Form	Form	Product	Product	Grow	Appl						
No.	Name	Conc	Type	Rate	Rate	Unit	Stg	Code	7	8	9	10	
1	HAND WEEDED CONTROL								13 b	14 b	19 ab	21 a	
2	KERB	50	W		2	LB/A	PRE	A	20 a	15 b	23 a	20 a	
3	KERB	50	W		4	LB/A	PRE	A	23 a	23 a	15 bc	14 ab	
4	KERB	50	W		8	LB/A	PRE	A	11 b	14 b	7 cd	5 bc	
5	KERB	50	W		12	LB/A	PRE	A	9 b	11 b	2 d	2 c	
LSD (P=.05)										5.8	5.5	7.5	10.3
Standard Deviation										3.8	3.6	4.9	6.7
CV										24.94	23.59	37.57	54.36

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

# The Ohio State University

**KERB ON LETTUCE 2000**

Trial ID: LETTCCVILLE-00    Study Dir.: DR. D. J. DOOHAN AND T.KOCH  
 Location: CELERYVILLE    Investigator: Dr. Douglas J. Doohan

Weed Code							POROL	POROL	WEED	WEED		
Crop Code							LACSA	LACSA	LACSA	LACSA		
Part Rated							1	2	TTL G 1	TTL G 2		
Rating Data Type							WD COUNT	WD COUNT	BIOMASS	BIOMASS		
Rating Unit							LATE IRR	LATE IRR	ERLY IRR	ERLY IRR		
Rating Date							8/3/00	8/3/00	8/4/00	8/4/00		
# Subsamples, Dec.							0	0	1	1		
Trt	Treatment	Form	Form	Product	Product	Grow	Appl					
No.	Name	Conc	Type	Rate	Rate	Unit	Stg	Code	11	12	13	14
1	HAND WEEDED CONTROL								22 a	21 a	44.5 a	41 a
2	KERB	50	W		2	LB/A	PRE	A	18 a	18 ab	40.5 ab	43.1 a
3	KERB	50	W		4	LB/A	PRE	A	16 a	12 bc	44.8 a	37.1 a
4	KERB	50	W		8	LB/A	PRE	A	4 b	4 d	32.3 ab	30.6 b
5	KERB	50	W		12	LB/A	PRE	A	7 b	6 cd	29.7 b	28 b
LSD (P=.05)							8.4	6.6	12.63	6.09		
Standard Deviation							5.4	4.3	8.2	3.95		
CV							41.58	35.55	21.38	10.98		

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



## The Ohio State University

### KERB ON LETTUCE 2000

Trial ID: LETTCCVILLE-00 Study Dir.: DR. D. J. DOOHAN AND T.KOCH

Location: CELERYVILLE Investigator: Dr. Douglas J. Doohan

Weed Code								WEED	WEED
Crop Code								LACSA	LACSA
Part Rated								TTL G 1	TTL G 2
Rating Data Type								BIOMASS	BIOMASS
Rating Unit								LATE IRR	LATE IRR
Rating Date								8/4/00	8/4/00
# Subsamples, Dec.								1	1
Trt Treatment	Form	Form	Product	Product	Grow	Appl			
No. Name	Conc	Type	Rate	Rate Unit	Stg	Code	15	16	
1 HAND WEEDED CONTROL							43.4 a	45.9 a	
2 KERB	50	W		2 LB/A	PRE	A	44.8 a	37.7 b	
3 KERB	50	W		4 LB/A	PRE	A	40.6 ab	38 b	
4 KERB	50	W		8 LB/A	PRE	A	28.2 b	32.4 bc	
5 KERB	50	W		12 LB/A	PRE	A	31.4 ab	26.8 c	
LSD (P=.05)							14.79	7.68	
Standard Deviation							9.6	4.99	
CV							25.47	13.78	

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

# The Ohio State University

## MILESTONE ON GRAPES 2000

Trial ID: GRAPEKINGS-00 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: AST.PROFESSOR  
 Affiliation: OARDC  
 Postal Code: 44691

### TRIAL LOCATION

City: N.KINGSVILLE  
 State/Prov.: OHIO  
 Postal Code: 44068 Initiation Date: May-03-00  
 Country: USA  
 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./CYR.

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

## MILESTONE ON GRAPES 2000

Trial ID: GRAPEKINGS-00      Study Dir.: DR.DOUGLAS J.DOCHAN AND T.KOCH  
 Location: N.KINGSVILLE,OHIO      Investigator: Dr. Douglas J. Doohan

### 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:	05/03/2000
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

## MILESTONE ON GRAPES 2000

Trial ID: GRAPEKINGS-00

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

Location: N.KINGSVILLE,OHIO

Investigator: Dr. Douglas J. Doohan

### WEED STAGE AT EACH APPLICATION

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

### 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

Trial ID: GRAPEKINGS-00

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

Location: N.KINGSVILLE,OHIO

Investigator: Dr. Douglas J. Doohan

### Trial Comments

OBJECTIVE:TO EVALUATE APPLICATIONS OF DPX-R6447 (MILESTONE) HERBICIDE IN SEVERAL FRUIT, NUT,AND/OR VINE CROPS FOR CROP TOLERANCE (PRIMARILY) AND WEED EFFICACY. OBSERVATIONS AT 45,90,135,180, AND 225 DAT(DAYS AFTER TREATMENT).R6447 IS A PREEMERGENCE HERBICIDE ,IF SMALL WEEDS ARE PRESENT AT APPLICATION , THE ADDITION OF ROUNDUP AT 16 0ZAI/A IS RECOMMENDED TO BURN DOWN THE EXISTING VEGETATION. IT IS NOT PRACTICAL TO USE ROUNDUP IN THE YOUNG GRAPES (0-2 YRS OLD) THE ADDITION OF A SURFACTANT AT 0.5% V/V WITH R6447 WILL PROVIDE A MODERATE LEVEL OF BURN DOWN OF THE EXISTING VEGETATION-TO PROVIDE WORSE CASE SITUATIONS,TRY TO LOCATE ALL STUDIES ON LIGHT SOIL TYPES.

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.

UNDER PART RATED,"P" = PEST OR WEED

# The Ohio State University

**MILESTONE ON GRAPES 2000**

Trial ID: GRAPEKINGS-00      Study Dir.: DR.DOUGLAS J.DOOHAN AND T.KOCH  
 Location: N.KINGSVILLE,OHIO      Investigator: Dr. Douglas J. Doohan

Weed Code	GENERAL	SENVU	PHTAM							
Crop Code	VITLA	VITLA	VITLA							
Part Rated	P	P	P							
Rating Data Type	CONTROL	CONTROL	CONTROL							
Rating Unit	%	%	%							
Rating Date	6/16/00	7/19/00	7/19/00							
# Subsamples, Dec.		0	0							
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3
1	MILESTONE	80 WG		7.5 OZ/A		PRE	A	100 a	94 a	99 a
2	MILESTONE	80 WG		15 OZ/A		PRE	A	100 a	99 a	99 a
3	MILESTONE	80 WG		30 OZ/A		PRE	A	100 a	99 a	99 a
4	GOAL 2XL + KARMEX	2 EC		38.4 OZ/A		PRE	A	95 b	80 b	99 a
5	CONTROL	80 DF		48 OZ/A		PRE	A	70 c	0 c	0 b
LSD (P=.05)								4.21	7.2	0
Standard Deviation								2.24	3.8	0
CV								2.4	5.13	0

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

# The Ohio State Univers

**MILESTONE ON GRAPES 2000**

Trial ID: GRAPEKINGS-00 Study Dir.: DR.DOUGLAS J.DC  
 Location: N.KINGSVILLE,OHIO Investigator: Dr. Douglas J.

Weed Code								STEME	SOLCA	CHEAL
Crop Code								VITLA	VITLA	VITLA
Part Rated								P	P	P
Rating Data Type								CONTROL	CONTROL	CONTROL
Rating Unit								%	%	%
Rating Date								7/19/00	7/19/00	7/19/00
# Subsamples, Dec.								0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	4	5	6
1	MILESTONE	80	WG	7.5	OZ/A	PRE	A	88 a	58 a	99 a
2	MILESTONE	80	WG	15	OZ/A	PRE	A	93 a	99 a	99 a
3	MILESTONE	80	WG	30	OZ/A	PRE	A	96 a	99 a	99 a
4	GOAL 2XL + KARMEX	2	EC	38.4	OZ/A	PRE	A	96 a	69 a	86 a
5	CONTROL	80	DF	48	OZ/A	PRE	A	0 b	0 b	0 b
LSD (P=.05)								8.8	51.8	19
Standard Deviation								4.6	27.5	10.1
CV								6.22	42.25	13.15

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

# The Ohio State Univers

## MILESTONE ON GRAPES 2000

Trial ID: GRAPEKINGS-00 Study Dir.: DR.DOUGLAS J.D  
 Location: N.KINGSVILLE,OHIO Investigator: Dr. Douglas J.

Weed Code								DIGSA	MORAL	RHUGL
Crop Code								VITLA	VITLA	VITLA
Part Rated								P	P	P
Rating Data Type								CONTROL	CONTROL	CONTROL
Rating Unit								%	%	%
Rating Date								7/19/00	7/19/00	7/19/00
# Subsamples, Dec.								0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	7	8	9
1	MILESTONE	80 WG		7.5 OZ/A		PRE A		91 a	99 a	99 a
2	MILESTONE	80 WG		15 OZ/A		PRE A		99 a	89 a	99 a
3	MILESTONE	80 WG		30 OZ/A		PRE A		99 a	69 a	69 a
4	GOAL 2XL + KARMEX	2 EC 80 DF		38.4 OZ/A 48 OZ/A		PRE A PRE A		94 a	99 a	99 a
5	CONTROL							0 b	0 b	0 b
LSD (P=.05)								11.7	42	43.3
Standard Deviation								6.2	22.3	23
CV								8.09	31.29	31.36

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



# The Ohio State Univers

**MILESTONE ON GRAPES 2000**

Trial ID: GRAPEKINGS-00 Study Dir.: DR.DOUGLAS J.D  
 Location: N.KINGSVILLE,OHIO Investigator: Dr. Douglas J.

Weed Code								SENVU	PHTAM	STEME
Crop Code								VITLA	VITLA	VITLA
Part Rated								P	P	P
Rating Data Type								CONTROL	CONTROL	CONTROL
Rating Unit								%	%	%
Rating Date								10/25/00	10/25/00	10/25/00
# Subsamples, Dec.								0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	10	11	12
1	MILESTONE	80 WG		7.5 OZ/A		PRE	A	98 a	100 a	78 a
2	MILESTONE	80 WG		15 OZ/A		PRE	A	95 a	100 a	88 a
3	MILESTONE	80 WG		30 OZ/A		PRE	A	100 a	100 a	95 a
4	GOAL 2XL + KARMEX	2 EC 80 DF		38.4 OZ/A 48 OZ/A		PRE	A	90 a	100 a	90 a
5	CONTROL							67 a	98 a	80 a
LSD (P=.05)								44.5	2.4	26.5
Standard Deviation								23.6	1.3	14.1
CV								26.24	1.3	16.28

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

# The Ohio State Univers

## MILESTONE ON GRAPES 2000

Trial ID: GRAPEKINGS-00 Study Dir.: DR.DOUGLAS J.D  
 Location: N.KINGSVILLE,OHIO Investigator: Dr. Douglas J.

Weed Code				SOLCA	CHEAL	DIGSA				
Crop Code				VITLA	VITLA	VITLA				
Part Rated				P	P	P				
Rating Data Type				CONTROL	CONTROL	CONTROL				
Rating Unit				%	%	%				
Rating Date				10/25/00	10/25/00	10/25/00				
# Subsamples, Dec.				0	0	0				
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	13	14	15
1	MILESTONE	80 WG		7.5 OZ/A		PRE A		92 a	100 a	100 a
2	MILESTONE	80 WG		15 OZ/A		PRE A		100 a	100 a	100 a
3	MILESTONE	80 WG		30 OZ/A		PRE A		97 a	100 a	100 a
4	GOAL 2XL + KARMEX	2 EC 80 DF		38.4 OZ/A 48 OZ/A		PRE A PRE A		95 a	83 a	85 a
5	CONTROL							93 a	87 a	37 b
LSD (P=.05)								9.1	22.2	20.6
Standard Deviation								4.8	11.8	10.9
CV								5.07	12.55	12.94

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

# The Ohio State Univers

## MILESTONE ON GRAPES 2000

Trial ID: GRAPEKINGS-00 Study Dir.: DR.DOUGLAS J.D  
 Location: N.KINGSVILLE,OHIO Investigator: Dr. Douglas J.

Weed Code								MORAL	RHUGL
Crop Code								VITLA	VITLA
Part Rated								P	P
Rating Data Type								CONTROL	CONTROL
Rating Unit								%	%
Rating Date								10/25/00	10/25/00
# Subsamples, Dec.								0	0
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	16	17
1	MILESTONE	80 WG		7.5 OZ/A		PRE	A	97 a	100 a
2	MILESTONE	80 WG		15 OZ/A		PRE	A	93 a	100 a
3	MILESTONE	80 WG		30 OZ/A		PRE	A	97 a	100 a
4	GOAL 2XL + KARMEX	2 EC 80 DF		38.4 OZ/A 48 OZ/A		PRE	A	93 a	100 a
5	CONTROL							97 a	100 a
LSD (P=.05)								14	0
Standard Deviation								7.4	0
CV								7.78	0

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

# The Ohio State University

## TOLERANCE OF FIFTEEN SWEET CORN VARIETIES TO PERMIT

Trial ID: PERMITWOOST-00 Study Dir.: DR.DOUGLAS J.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  
 Postal Code: 44691

### TRIAL LOCATION

City: WOOSTER Trial Status: FINAL  
 State/Prov.: OHIO Trial Reliability: RELIABLE  
 Postal Code: 44691 Initiation Date: \_\_\_\_\_  
 Country: USA Planned Completion Date: \_\_\_\_\_  
 E-Longitude of LL Corner °: \_\_\_\_\_ N-Latitude of LL Corner °: \_\_\_\_\_  
 Altitude of LL Corner: \_\_\_\_\_ Unit: \_\_\_\_\_ Angle y-axis to North °: \_\_\_\_\_

Directions: FROM WOOSTER, TAKE RT.250 EAST APPROX.3 MILES TO OIL  
 CITY RD.TURN SOUTH ON OIL CITY APPROX.4MI. TO FARM.

### COOPERATOR/LANDOWNER

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

Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N): N  
 Guidelines: \_\_\_\_\_ Guideline Description: \_\_\_\_\_

Objective: TO EVALUATE CROP TOLERANCE OF PERMIT IN SWEET CORN (15 VARIETIES)

Conclusions:

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1			

Crop 1: ZEAMS SWEET CORN Variety: VARIOUS  
 Planting Date: May-30-00 Planting Method: CORN PLANTER  
 Rate: 28000 PLANTS/A Depth: 1.00 IN Perennial Age: 0 0  
 Row Spacing: 30 INCH Seed Bed: CONVENTIONAL  
 Soil Temperature: 50 F Soil Moisture: MOIST Emergence Date: Jun-15-00

### SITE AND DESIGN

Plot Width, Unit: 75 FT Plot Length, Unit: 25 FT Reps: 3

# The Ohio State University

## TOLERANCE OF FIFTEEN SWEET CORN VARIETIES TO PERMIT

Site Type: WELL-DRAINED

Tillage Type: CONVENTIONAL

Study Design: RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticide	Year
1			

### MAINTENANCE

Field Prep./Maintenance: FERTILIZER WAS APPLIED @ 400#/A OF 10-20-20.CORN WAS TOP DRESSED WITH 28% N WHEN CORN WAS 12-18" TALL

No.	Date	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1	05/30/2000	ATRAZINE+DUAL 2	4		F	2PTS	
2	06/08/2000	SEVIN XLR				1 QT	
3	06/28/2000	SEVIN XLR				1 QT	
4	07/06/2000	SEVIN XLR				1 QT	
5	07/13/2000	SEVIN XLR				1 QT	
6	07/17/2000	SEVIN XLR				1 QT	
7	07/24/2000	SEVIN XLR				1 QT	
8	08/02/2000	SEVIN XLR				1 QT	
9	08/11/2000	SEVIN XLR				1QT	

### 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

### ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

### MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1							

Overall Moisture Conditions: \_\_\_\_\_

Closest Weather Station: \_\_\_\_\_ Distance: \_\_\_\_\_ Unit: \_\_\_\_\_

# The Ohio State University

## TOLERANCE OF FIFTEEN SWEET CORN VARIETIES TO PERMIT

### APPLICATION DESCRIPTION

	A
Application Date:	06/28/2000
Time of Day:	10-11 AM
Application Method:	SPRAY
Application Timing:	POST
Applic. Placement:	BDCST.
Air Temp., Unit:	66 F
% Relative Humidity:	76
Wind Velocity, Unit:	0 MPH
Dew Presence (Y/N):	N
Water Hardness:	SOFT
Soil Temp., Unit:	55 F
Soil Moisture:	MOIST
% Cloud Cover:	30

### CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	ZEAMS POST
Stage Scale:	3-6 LEAF
Height, Unit:	10 INCH

### WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	NONE
Stage Scale:	NONE
Density, Unit:	0 0

### APPLICATION EQUIPMENT

	A
Appl. Equipment:	TRACTOR
Operating Pressure:	35 PSI
Nozzle Type:	FLAT FAN
Nozzle Size:	8002 VS
Nozzle Spacing, Unit:	18 IN
Nozzles/Row:	8
Band Width, Unit:	10 FT
Boom Length, Unit:	
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
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	N

Trt No	Treatment Application Comment

# The Ohio State University

## TOLERANCE OF FIFTEEN SWEET CORN VARIETIES TO PERMIT

Trial Comments

CORN VARIETY TOLERANCE TO PERMIT  
CORN SEEDING TO INSURE EQUIVALENT WEED CONTROL, REGARDLESS  
OF POST HERBICIDE.

OBJECTIVE: EVALUATE TOLERANCE OF 15 IMPORTANT SWEET CORN VARIETIES TO PERMIT

CONTROL=NO PERMIT

MAINPLOT = HERBICIDE RATE: 2/3 OZ; 1.33 OZ; CONTROL  
GUARD ROW, DATA ROW--GUARD ROW, DATA ROW---ETC=135 PLOTS

8/1/00

THERE SEEMED TO BE EXCESSIVE VEGETATIVE GROWTH NEAR THE EAR ON  
SOME VARIETIES IN THE TWO PERMIT RATES. WITH THE 2/3 OZ. RATE  
, VAR: 1, 3, 7, 11, 13, & 15 SHOWED LOW AMOUNTS OF "FLARING", VAR..  
4, 5, 6, 8, 9, 14 SHOWED MEDIUM LEVELS, AND VAR. 10 HAD THE MOST. WITH  
THE 1 1/3 OZ. RATE, VARIETIES 2, 3, 5, 7, 10, 11, 13, & 15 HAD LOW  
FLARE, VAR. 1, 4, 8, 9, 12, HAD MEDIUM FLARE, AND VAR. 6 & 14 HAD A LOT OF  
FLARING

# The Ohio State University

## TOLERANCE OF FIFTEEN SWEET CORN VARIETIES TO PERMIT

Trial ID: PERMIT 2000

Study Dir.:

Location:

Investigator: Dr. Douglas J. Doohan

Crop Code								ZEAMS	ZEAMS	ZEAMS
Part Rated								C	C	C
Rating Data Type								PLANT	PLANT	CHLOROS.
Rating Unit								NUMBER	HT.INCH	%
Rating Date								7/3/00	7/5/00	7/7/00
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3
1	SENECA DANCER NO HERBICIDE						B	24 a-e	13 a-e	0 d
2	SENECA DANCER PERMIT1	75 DF		0.66 OZ/A		POST	B	27 a-e	14 a-e	0 d
3	SENECA DANCER PERMIT 2	75 DF		1.33 OZ/A		POST	B	27 a-e	14 a-e	0 d
4	TEMPTATION NO HERBICIDE						B	33 ab	17 ab	2 cd
5	TEMPTATION PERMIT1	75 DF		0.66 OZ/A		POST	B	27 a-e	15 a-e	2 cd
6	TEMPTATION PERMIT 2	75 DF		1.33 OZ/A		POST	B	28 a-e	15 a-e	0 d
7	SWEET RYTHM NO HERBICIDE						B	27 a-e	15 a-e	3 bcd
8	SWEET RYTHM PERMIT1	75 DF		0.66 OZ/A		POST	B	24 a-e	13 a-e	2 cd
9	SWEET RYTHM PERMIT 2	75 DF		1.33 OZ/A		POST	B	28 a-e	15 a-e	5 abc
10	AMAZINGLY SWEET NO HERBICIDE						B	27 a-e	15 a-e	3 bcd
11	AMAZINGLY SWEET PERMIT1	75 DF		0.66 OZ/A		POST	B	27 a-e	15 a-e	0 d
12	AMAZINGLY SWEET PERMIT 2	75 DF		1.33 OZ/A		POST	B	32 ab	17 ab	2 cd
13	KANDY KING NO HERBICIDE						B	34 a	18 a	2 cd
14	KANDY KING PERMIT1	75 DF		0.66 OZ/A		POST	B	33 ab	18 ab	3 bcd
15	KANDY KING PERMIT 2	75 DF		1.33 OZ/A		POST	B	33 ab	18 ab	0 d
16	IMACULATE NO HERBICIDE						B	28 a-e	15 a-e	8 a
17	IMACULATE PERMIT1	75 DF		0.66 OZ/A		POST	B	25 a-e	13 a-e	3 bcd
18	IMACULATE PERMIT 2	75 DF		1.33 OZ/A		POST	B	28 a-e	15 a-e	0 d
19	FORTUNE NO HERBICIDE						B	18 de	10 de	2 cd
20	FORTUNE PERMIT1	75 DF		0.66 OZ/A		POST	B	28 a-e	15 a-e	0 d
21	FORTUNE PERMIT 2	75 DF		1.33 OZ/A		POST	B	20 b-e	11 b-e	3 bcd



# The Ohio State University

## TOLERANCE OF FIFTEEN SWEET CORN VARIETIES TO PERMIT

Trial ID: PERMIT 2000

Study Dir.:

Location:

Investigator: Dr. Douglas J. Doohan

Crop Code				ZEAMS	ZEAMS	ZEAMS
Part Rated				C	C	C
Rating Data Type				PLANT	PLANT	CHLOROS.
Rating Unit				NUMBER	HT.INCH	%
Rating Date				7/3/00	7/5/00	7/7/00
22 CONFECTION NO HERBICIDE			B	34 a	18 a	3 bcd
23 CONFECTION PERMIT1	75 DF	0.66 OZ/A	POST B	24 a-e	13 a-e	7 ab
24 CONFECTION PERMIT 2	75 DF	1.33 OZ/A	POST B	21 a-e	12 a-e	5 abc
25 BANDIT NO HERBICIDE			B	26 a-e	14 a-e	2 cd
26 BANDIT PERMIT1	75 DF	0.66 OZ/A	POST B	27 a-e	15 a-e	2 cd
27 BANDIT PERMIT 2	75 DF	1.33 OZ/A	POST B	20 b-e	11 b-e	3 bcd
28 SENECA DAYBREAK NO HERBICIDE			B	30 a-d	16 a-d	3 bcd
29 SENECA DAYBREAK PERMIT1	75 DF	0.66 OZ/A	POST B	32 abc	17 abc	5 abc
30 SENECA DAYBREAK PERMIT 2	75 DF	1.33 OZ/A	POST B	28 a-e	15 a-e	2 cd
31 SENSOR NO HERBICIDE			B	19 cde	11 cde	2 cd
32 SENSOR PERMIT1	75 DF	0.66 OZ/A	POST B	27 a-e	15 a-e	2 cd
33 SENSOR PERMIT 2	75 DF	1.33 OZ/A	POST B	22 a-e	12 a-e	2 cd
34 ICE QUEEN NO HERBICIDE			B	25 a-e	14 a-e	2 cd
35 ICE QUEEN PERMIT1	75 DF	0.66 OZ/A	POST B	32 abc	17 abc	3 bcd
36 ICE QUEEN PERMIT 2	75 DF	1.33 OZ/A	POST B	21 a-e	12 a-e	2 cd
37 XTRA TENDER NO HERBICIDE			B	28 a-e	15 a-e	2 cd
38 XTRA TENDER PERMIT1	75 DF	0.66 OZ/A	POST B	23 a-e	13 a-e	3 bcd
39 XTRA TENDER PERMIT 2	75 DF	1.33 OZ/A	POST B	27 a-e	15 a-e	5 abc
40 CANDY CORNER NO HERBICIDE			B	24 a-e	13 a-e	2 cd
41 CANDY CORNER PERMIT1	75 DF	0.66 OZ/A	POST B	31 a-d	17 a-d	3 bcd
42 CANDY CORNER PERMIT 2	75 DF	1.33 OZ/A	POST B	16 e	9 e	8 a
43 SILVER KING NO HERBICIDE			B	33 ab	18 ab	2 cd
44 SILVER KING PERMIT1	75 DF	0.66 OZ/A	POST B	23 a-e	12 a-e	2 cd
45 SILVER KING PERMIT 2	75 DF	1.33 OZ/A	POST B	25 a-e	14 a-e	0 d
LSD (P=.05)				13	6.5	4.4
Standard Deviation				8	4	2.7
CV				29.91	27.82	109.94

Means followed by same letter do not significantly differ (P=.05, LSD)  
Mean separations are based on the complete error term.

# The Ohio State University

## TOLERANCE OF FIFTEEN SWEET CORN VARIETIES TO PERMIT

Trial ID: PERMIT 2000

Study Dir.:

Location:

Investigator: Dr. Douglas J. I

Crop Code				ZEAMS		ZEAMS		ZEAMS		ZEAMS		ZEAMS		ZEAMS	
Part Rated				C		C		C		C		C		C	
Rating Data Type				STUNT		INJURY		STUNT		STUNT		TASSLING		EAR LENG	
Rating Unit				%		%		%		%		%		MM.	
Rating Date				7/7/00		7/7/00		7/13/00		7/24/00		8/8/00		9/25/00	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	4	5	6	7	8	9		
1	SENECA DANCER NO HERBICIDE						B	0 i	0 i	0 g	0 e	95 ab	179 b		
2	SENECA DANCER PERMIT1	75 DF		0.66 OZ/A		POST	B	0 i	0 i	0 g	0 e	100 a	125 b		
3	SENECA DANCER PERMIT 2	75 DF		1.33 OZ/A		POST	B	0 i	0 i	0 g	0 e	80 a-d	183 b		
4	TEMPTATION NO HERBICIDE						B	5 f-i	5 ghi	3 efg	2 de	88 a-d	182 b		
5	TEMPTATION PERMIT1	75 DF		0.66 OZ/A		POST	B	8 d-i	8 e-i	7 d-g	2 de	100 a	127 b		
6	TEMPTATION PERMIT 2	75 DF		1.33 OZ/A		POST	B	0 i	0 i	0 g	2 de	77 a-d	175 b		
7	SWEET RYTHM NO HERBICIDE						B	12 c-i	12 c-i	8 d-g	3 de	100 a	179 b		
8	SWEET RYTHM PERMIT1	75 DF		0.66 OZ/A		POST	B	12 c-i	13 c-h	7 d-g	5 cde	77 a-d	190 b		
9	SWEET RYTHM PERMIT 2	75 DF		1.33 OZ/A		POST	B	8 d-i	8 e-i	5 efg	3 de	83 a-d	190 b		
10	AMAZINGLY SWEET NO HERBICIDE						B	8 d-i	8 e-i	7 d-g	2 de	100 a	197 b		
11	AMAZINGLY SWEET PERMIT1	75 DF		0.66 OZ/A		POST	B	3 ghi	3 hi	2 fg	0 e	78 a-d	179 b		
12	AMAZINGLY SWEET PERMIT 2	75 DF		1.33 OZ/A		POST	B	3 ghi	5 ghi	3 efg	2 de	100 a	123 b		
13	KANDY KING NO HERBICIDE						B	10 c-i	10 d-i	8 d-g	7 b-e	100 a	184 b		
14	KANDY KING PERMIT1	75 DF		0.66 OZ/A		POST	B	10 c-i	13 c-h	10 c-g	5 cde	95 ab	186 b		
15	KANDY KING PERMIT 2	75 DF		1.33 OZ/A		POST	B	10 c-i	12 c-i	7 d-g	2 de	93 ab	186 b		
16	IMACULATE NO HERBICIDE						B	17 b-f	18 b-f	13 b-g	10 b-e	93 ab	177 b		
17	IMACULATE PERMIT1	75 DF		0.66 OZ/A		POST	B	10 c-i	10 d-i	7 d-g	5 cde	100 a	124 b		
18	IMACULATE PERMIT 2	75 DF		1.33 OZ/A		POST	B	8 d-i	8 e-i	8 d-g	8 b-e	97 a	182 b		
19	FORTUNE NO HERBICIDE						B	7 e-i	7 f-i	3 efg	3 de	100 a	115 b		
20	FORTUNE PERMIT1	75 DF		0.66 OZ/A		POST	B	0 i	0 i	2 fg	2 de	83 a-d	316 a		
21	FORTUNE PERMIT 2	75 DF		1.33 OZ/A		POST	B	0 i	3 hi	2 fg	2 de	97 a	179 b		

# The Ohio State University

## TOLERANCE OF FIFTEEN SWEET CORN VARIETIES TO PERMIT

Trial ID: PERMIT 2000

Study Dir.:

Location:

Investigator: Dr. Douglas J. I

Crop Code					ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated					C	C	C	C	C	C
Rating Data Type					STUNT	INJURY	STUNT	STUNT	TASSLING	EAR LENG
Rating Unit					%	%	%	%	%	MM.
Rating Date					7/7/00	7/7/00	7/13/00	7/24/00	8/8/00	9/25/00
22 CONFECTION NO HERBICIDE B					20 a-d	20 b-e	12 c-g	2 de	95 ab	192 b
23 CONFECTION PERMIT1 75 DF 0.66 OZ/A POST B					22 abc	23 abc	15 b-f	7 b-e	100 a	165 b
24 CONFECTION PERMIT 2 75 DF 1.33 OZ/A POST B					27 ab	30 ab	27 ab	25 ab	100 a	126 b
25 BANDIT NO HERBICIDE B					2 hi	5 ghi	3 efg	2 de	97 a	188 b
26 BANDIT PERMIT1 75 DF 0.66 OZ/A POST B					8 d-i	10 d-i	3 efg	3 de	100 a	117 b
27 BANDIT PERMIT 2 75 DF 1.33 OZ/A POST B					12 c-i	15 c-h	17 b-e	20 bcd	100 a	178 b
28 SENECA DAYBREAK NO HERBICIDE B					20 a-d	20 b-e	12 c-g	7 b-e	83 a-d	122 b
29 SENECA DAYBREAK PERMIT1 75 DF 0.66 OZ/A POST B					15 b-g	17 c-g	10 c-g	7 b-e	77 a-d	191 b
30 SENECA DAYBREAK PERMIT 2 75 DF 1.33 OZ/A POST B					12 c-i	12 c-i	8 d-g	5 cde	100 a	179 b
31 SENSOR NO HERBICIDE B					8 d-i	10 d-i	5 efg	0 e	63 d	183 b
32 SENSOR PERMIT1 75 DF 0.66 OZ/A POST B					10 c-i	12 c-i	5 efg	3 de	67 cd	184 b
33 SENSOR PERMIT 2 75 DF 1.33 OZ/A POST B					3 ghi	3 hi	3 efg	5 cde	100 a	182 b
34 ICE QUEEN NO HERBICIDE B					13 c-h	13 c-h	5 efg	2 de	87 a-d	177 b
35 ICE QUEEN PERMIT1 75 DF 0.66 OZ/A POST B					8 d-i	10 d-i	7 d-g	5 cde	100 a	181 b
36 ICE QUEEN PERMIT 2 75 DF 1.33 OZ/A POST B					15 b-g	15 c-h	8 d-g	2 de	75 a-d	180 b
37 XTRA TENDER NO HERBICIDE B					20 a-d	20 b-e	13 b-g	7 b-e	100 a	179 b
38 XTRA TENDER PERMIT1 75 DF 0.66 OZ/A POST B					15 b-g	17 c-g	20 bcd	23 bc	70 bcd	187 b
39 XTRA TENDER PERMIT 2 75 DF 1.33 OZ/A POST B					18 a-e	20 b-e	13 b-g	7 b-e	97 a	190 b
40 CANDY CORNER NO HERBICIDE B					22 abc	22 a-d	23 bc	25 ab	97 a	183 b
41 CANDY CORNER PERMIT1 75 DF 0.66 OZ/A POST B					13 c-h	15 c-h	8 d-g	2 de	100 a	177 b
42 CANDY CORNER PERMIT 2 75 DF 1.33 OZ/A POST B					30 a	33 a	38 a	43 a	97 a	182 b
43 SILVER KING NO HERBICIDE B					5 f-i	7 f-i	7 d-g	3 de	97 a	183 b
44 SILVER KING PERMIT1 75 DF 0.66 OZ/A POST B					13 c-h	13 c-h	7 d-g	5 cde	90 abc	122 b
45 SILVER KING PERMIT 2 75 DF 1.33 OZ/A POST B					7 e-i	5 ghi	7 d-g	3 de	77 a-d	194 b
LSD (P=.05)					12.5	11.8	14.3	19.8	25.6	102.2
Standard Deviation					7.7	7.2	8.8	12.1	15.7	62.6
CV					73.47	63.61	104.27	198.8	17.21	36.03

Means followed by same letter do not significantly differ (P=.05, LSD)  
Mean separations are based on the complete error term.

# The Ohio State University

## TOLERANCE OF FIFTEEN SWEET CORN VARIETIES TO PERMIT

Trial ID: PERMIT 2000

Study Dir.:

Location:

Investigator: Dr. Douglas J. I

Crop Code								ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated								C	C	C	C	C	C
Rating Data Type								EAR FILL	#ROW/EAR	# KER/RW	EAR WT.	#EAR/AV.	#MKT.EAR
Rating Unit								MM.	NUMBER	NUMBER	GRAMS	NUMBER	NUMBER
Rating Date								9/25/00	9/25/00	9/25/00	9/25/00	9/25/00	9/25/00
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	10	11	12	13	14	15
1	SENECA DANCER NO HERBICIDE						B	164 a	18 a	36 abc	210 abc	5 a	10 a-d
2	SENECA DANCER PERMIT1	75 DF		0.66 OZ/A		POST	B	119 a	12 ab	23 abc	134 a-e	3 ab	6 a-d
3	SENECA DANCER PERMIT 2	75 DF		1.33 OZ/A		POST	B	170 a	16 ab	32 abc	210 abc	5 a	11 a-d
4	TEMPTATION NO HERBICIDE						B	159 a	17 ab	32 abc	230 a	5 a	8 a-d
5	TEMPTATION PERMIT1	75 DF		0.66 OZ/A		POST	B	113 a	10 b	23 abc	127 a-e	3 ab	10 a-d
6	TEMPTATION PERMIT 2	75 DF		1.33 OZ/A		POST	B	163 a	17 ab	34 abc	207 abc	5 a	12 a-d
7	SWEET RYTHM NO HERBICIDE						B	157 a	15 ab	33 abc	183 a-d	5 a	12 a-d
8	SWEET RYTHM PERMIT1	75 DF		0.66 OZ/A		POST	B	169 a	16 ab	33 abc	207 abc	5 a	12 abc
9	SWEET RYTHM PERMIT 2	75 DF		1.33 OZ/A		POST	B	164 a	16 ab	33 abc	160 a-e	4 ab	7 a-d
10	AMAZINGLY SWEET NO HERBICIDE						B	176 a	15 ab	33 abc	206 abc	5 a	11 a-d
11	AMAZINGLY SWEET PERMIT1	75 DF		0.66 OZ/A		POST	B	162 a	15 ab	33 abc	185 a-d	5 a	12 a-d
12	AMAZINGLY SWEET PERMIT 2	75 DF		1.33 OZ/A		POST	B	112 a	11 ab	20 c	121 b-e	3 ab	10 a-d
13	KANDY KING NO HERBICIDE						B	160 a	16 ab	29 abc	197 a-d	5 a	12 a-d
14	KANDY KING PERMIT1	75 DF		0.66 OZ/A		POST	B	169 a	16 ab	32 abc	187 a-d	5 a	15 a
15	KANDY KING PERMIT 2	75 DF		1.33 OZ/A		POST	B	159 a	16 ab	32 abc	182 a-d	5 a	12 a-d
16	IMACULATE NO HERBICIDE						B	162 a	17 ab	32 abc	203 abc	4 ab	9 a-d
17	IMACULATE PERMIT1	75 DF		0.66 OZ/A		POST	B	104 a	10 b	21 bc	130 a-e	3 ab	6 a-d
18	IMACULATE PERMIT 2	75 DF		1.33 OZ/A		POST	B	171 a	16 ab	36 abc	227 a	5 a	9 a-d
19	FORTUNE NO HERBICIDE						B	110 a	11 ab	23 abc	153 a-e	3 ab	6 a-d
20	FORTUNE PERMIT1	75 DF		0.66 OZ/A		POST	B	181 a	16 ab	37 ab	208 abc	5 a	9 a-d
21	FORTUNE PERMIT 2	75 DF		1.33 OZ/A		POST	B	162 a	15 ab	32 abc	222 ab	5 a	8 a-d

# The Ohio State University

**TOLERANCE OF FIFTEEN SWEET CORN VARIETIES TO PERMIT**

Trial ID: PERMIT 2000

Study Dir.:

Location:

Investigator: Dr. Douglas J. I

Crop Code				ZEAMS C	ZEAMS C	ZEAMS C	ZEAMS C	ZEAMS C	ZEAMS C
Part Rated				EAR FILL	#ROW/EAR	# KER/RW	EAR WT.	#EAR/AV.	#MKT.EAR
Rating Data Type				MM.	NUMBER	NUMBER	GRAMS	NUMBER	NUMBER
Rating Unit				9/25/00	9/25/00	9/25/00	9/25/00	9/25/00	9/25/00
Rating Date									
22 CONFECTION NO HERBICIDE			B	178 a	15 ab	37 a	207 abc	5 a	13 abc
23 CONFECTION PERMIT1	75 DF	0.66 OZ/A	POST B	156 a	16 ab	31 abc	174 a-e	4 ab	5 cd
24 CONFECTION PERMIT 2	75 DF	1.33 OZ/A	POST B	116 a	10 ab	24 abc	77 e	2 b	3 d
25 BANDIT NO HERBICIDE			B	170 a	17 a	32 abc	207 abc	4 ab	8 a-d
26 BANDIT PERMIT1	75 DF	0.66 OZ/A	POST B	115 a	11 ab	23 abc	115 cde	3 ab	7 a-d
27 BANDIT PERMIT 2	75 DF	1.33 OZ/A	POST B	148 a	16 ab	29 abc	175 a-e	5 a	9 a-d
28 SENECA DAYBREAK NO HERBICIDE			B	107 a	11 ab	21 abc	95 de	3 ab	6 a-d
29 SENECA DAYBREAK PERMIT1	75 DF	0.66 OZ/A	POST B	182 a	17 ab	35 abc	202 abc	3 ab	6 bcd
30 SENECA DAYBREAK PERMIT 2	75 DF	1.33 OZ/A	POST B	154 a	16 ab	31 abc	190 a-d	4 ab	8 a-d
31 SENSOR NO HERBICIDE			B	167 a	15 ab	33 abc	177 a-e	5 a	14 ab
32 SENSOR PERMIT1	75 DF	0.66 OZ/A	POST B	164 a	15 ab	36 abc	165 a-e	4 ab	10 a-d
33 SENSOR PERMIT 2	75 DF	1.33 OZ/A	POST B	164 a	18 a	32 abc	173 a-e	4 ab	9 a-d
34 ICE QUEEN NO HERBICIDE			B	157 a	16 ab	33 abc	212 abc	4 ab	8 a-d
35 ICE QUEEN PERMIT1	75 DF	0.66 OZ/A	POST B	166 a	15 ab	33 abc	207 abc	5 a	11 a-d
36 ICE QUEEN PERMIT 2	75 DF	1.33 OZ/A	POST B	172 a	17 a	34 abc	196 a-d	4 ab	7 a-d
37 XTRA TENDER NO HERBICIDE			B	167 a	15 ab	32 abc	208 abc	5 a	10 a-d
38 XTRA TENDER PERMIT1	75 DF	0.66 OZ/A	POST B	159 a	16 ab	33 abc	178 a-e	5 a	7 a-d
39 XTRA TENDER PERMIT 2	75 DF	1.33 OZ/A	POST B	172 a	17 a	35 abc	201 abc	5 a	14 abc
40 CANDY CORNER NO HERBICIDE			B	157 a	14 ab	33 abc	167 a-e	4 ab	6 bcd
41 CANDY CORNER PERMIT1	75 DF	0.66 OZ/A	POST B	149 a	16 ab	30 abc	163 a-e	4 ab	11 a-d
42 CANDY CORNER PERMIT 2	75 DF	1.33 OZ/A	POST B	161 a	15 ab	34 abc	150 a-e	5 a	7 a-d
43 SILVER KING NO HERBICIDE			B	165 a	14 ab	31 abc	163 a-e	5 a	11 a-d
44 SILVER KING PERMIT1	75 DF	0.66 OZ/A	POST B	113 a	12 ab	23 abc	119 b-e	3 ab	8 a-d
45 SILVER KING PERMIT 2	75 DF	1.33 OZ/A	POST B	166 a	15 ab	35 abc	190 a-d	4 ab	10 a-d
LSD (P=.05)				79.8	7.4	16.2	104.8	2.4	8.8
Standard Deviation				48.9	4.5	9.9	64.2	1.5	5.4
CV				31.73	30.25	32.02	36.11	34.37	58.34

Means followed by same letter do not significantly differ (P=.05, LSD)  
 Mean separations are based on the complete error term.

# The Ohio State University

## TOLERANCE OF FIFTEEN SWEET CORN VARIETIES TO PERMIT

Trial ID: PERMIT 2000

Study Dir.:

Location:

Investigator: Dr. Douglas J. I

Crop Code								ZEAMS	ZEAMS	ZEAMS
Part Rated								C	C	C
Rating Data Type								TOT.MK.W	AV.# TIL	SHK-SOIL
Rating Unit								GRAMS	NUMBER	INCHES
Rating Date								9/25/00	7/18/00	9/5/00
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	16	17	18
1	SENECA DANCER NO HERBICIDE						B	2742 a-d	1 a	19 a-e
2	SENECA DANCER PERMIT1	75 DF		0.66 OZ/A		POST	B	1867 a-d	0 ab	19 a-e
3	SENECA DANCER PERMIT 2	75 DF		1.33 OZ/A		POST	B	2533 a-d	1 ab	23 a-d
4	TEMPTATION NO HERBICIDE						B	2083 a-d	1 ab	25 a
5	TEMPTATION PERMIT1	75 DF		0.66 OZ/A		POST	B	2283 a-d	1 ab	19 a-e
6	TEMPTATION PERMIT 2	75 DF		1.33 OZ/A		POST	B	3200 a-d	0 ab	20 a-e
7	SWEET RYTHM NO HERBICIDE						B	2758 a-d	0 ab	18 a-e
8	SWEET RYTHM PERMIT1	75 DF		0.66 OZ/A		POST	B	3217 a-d	0 ab	19 a-e
9	SWEET RYTHM PERMIT 2	75 DF		1.33 OZ/A		POST	B	1550 bcd	1 ab	21 a-e
10	AMAZINGLY SWEET NO HERBICIDE						B	2767 a-d	1 ab	22 a-e
11	AMAZINGLY SWEET PERMIT1	75 DF		0.66 OZ/A		POST	B	2958 a-d	0 ab	23 a-d
12	AMAZINGLY SWEET PERMIT 2	75 DF		1.33 OZ/A		POST	B	2378 a-d	1 a	21 a-e
13	KANDY KING NO HERBICIDE						B	3042 a-d	1 ab	23 a-d
14	KANDY KING PERMIT1	75 DF		0.66 OZ/A		POST	B	3383 abc	1 ab	20 a-e
15	KANDY KING PERMIT 2	75 DF		1.33 OZ/A		POST	B	2887 a-d	0 ab	18 a-e
16	IMACULATE NO HERBICIDE						B	2533 a-d	1 ab	19 a-e
17	IMACULATE PERMIT1	75 DF		0.66 OZ/A		POST	B	1467 bcd	0 ab	19 a-e
18	IMACULATE PERMIT 2	75 DF		1.33 OZ/A		POST	B	2283 a-d	0 ab	20 a-e
19	FORTUNE NO HERBICIDE						B	2083 a-d	0 ab	18 a-e
20	FORTUNE PERMIT1	75 DF		0.66 OZ/A		POST	B	2850 a-d	1 ab	18 a-e
21	FORTUNE PERMIT 2	75 DF		1.33 OZ/A		POST	B	1925 a-d	1 a	21 a-e

# The Ohio State University

## TOLERANCE OF FIFTEEN SWEET CORN VARIETIES TO PERMIT

Trial ID: PERMIT 2000

Study Dir.:

Location:

Investigator: Dr. Douglas J. I

Crop Code				ZEAMS C	ZEAMS C	ZEAMS C
Part Rated				TOT.MK.W	AV.# TIL	SHK-SOIL
Rating Data Type				GRAMS	NUMBER	INCHES
Rating Unit				9/25/00	7/18/00	9/5/00
Rating Date						
22 CONFECTION NO HERBICIDE			B	4080 a	1 ab	20 a-e
23 CONFECTION PERMIT1	75 DF	0.66 OZ/A	POST B	1217 cd	1 a	14 e
24 CONFECTION PERMIT 2	75 DF	1.33 OZ/A	POST B	900 d	1 a	18 a-e
25 BANDIT NO HERBICIDE			B	2078 a-d	1 ab	22 a-e
26 BANDIT PERMIT1	75 DF	0.66 OZ/A	POST B	1381 bcd	1 ab	16 de
27 BANDIT PERMIT 2	75 DF	1.33 OZ/A	POST B	2417 a-d	1 a	18 a-e
28 SENECA DAYBREAK NO HERBICIDE			B	1225 cd	1 a	18 a-e
29 SENECA DAYBREAK PERMIT1	75 DF	0.66 OZ/A	POST B	1317 bcd	1 a	24 ab
30 SENECA DAYBREAK PERMIT 2	75 DF	1.33 OZ/A	POST B	2017 a-d	1 ab	16 b-e
31 SENSOR NO HERBICIDE			B	3697 ab	1 ab	18 a-e
32 SENSOR PERMIT1	75 DF	0.66 OZ/A	POST B	2311 a-d	1 a	21 a-e
33 SENSOR PERMIT 2	75 DF	1.33 OZ/A	POST B	2228 a-d	0 ab	16 cde
34 ICE QUEEN NO HERBICIDE			B	2217 a-d	0 b	24 abc
35 ICE QUEEN PERMIT1	75 DF	0.66 OZ/A	POST B	2767 a-d	1 a	20 a-e
36 ICE QUEEN PERMIT 2	75 DF	1.33 OZ/A	POST B	1892 a-d	1 a	23 a-d
37 XTRA TENDER NO HERBICIDE			B	2467 a-d	1 ab	18 a-e
38 XTRA TENDER PERMIT1	75 DF	0.66 OZ/A	POST B	1900 a-d	0 b	18 a-e
39 XTRA TENDER PERMIT 2	75 DF	1.33 OZ/A	POST B	3493 abc	1 ab	23 a-d
40 CANDY CORNER NO HERBICIDE			B	1350 bcd	1 ab	19 a-e
41 CANDY CORNER PERMIT1	75 DF	0.66 OZ/A	POST B	2333 a-d	0 b	17 a-e
42 CANDY CORNER PERMIT 2	75 DF	1.33 OZ/A	POST B	1708 a-d	1 ab	19 a-e
43 SILVER KING NO HERBICIDE			B	2500 a-d	0 ab	19 a-e
44 SILVER KING PERMIT1	75 DF	0.66 OZ/A	POST B	1975 a-d	0 b	17 a-e
45 SILVER KING PERMIT 2	75 DF	1.33 OZ/A	POST B	3073 a-d	0 ab	20 a-e
LSD (P=.05)				2411.1	0.7	7.8
Standard Deviation				1476.5	0.4	4.8
CV				63.08	73.84	24.38

Means followed by same letter do not significantly differ (P=.05, LSD)  
Mean separations are based on the complete error term.

# The Ohio State University

## POTATO VINE DESSICATION STUDY

Trial ID: POTATSMITH-00                      Study Dir.: DR.D.DOOHAN AND T.KOCH  
 Location: SMITHVILLE,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: May-04-00  
 Country: USA  
 Directions: 4409 THOMPSON RD., WOOSTER, OHIO, 44691. FROM WOOSTER TAKE SR585 NORTH APPROX.3 MI.

### COOPERATOR/LANDOWNER

Cooperator: TIM & RANDY MOOMAW                      Country: USA  
 Org: GROWER                      Phone No: 330-264-1193  
 Address 1: 4409 THOMPSON ROAD  
 City: SMITHVILLE  
 State/Prov: OHIO  
 Postal Code: 44677

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

Objective: TO ASSESS "RELY" AS A FEASIBLE POTATO DESSICANT

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	NONE		

Crop 1: SOLTU POTATO                      Variety: SNOWDEN  
 Planting Date: May-03-00                      Planting Method: CONVENTIONAL  
 Rate: 15 CWT./A                      Depth: 3 "                      Perennial Age: 0. .  
 Row Spacing: 36 "                      Seed Bed: CONVENTIONAL  
 Soil Temperature: 45 F                      Soil Moisture: MOIST                      Emergence Date: Jun-03-00

### SITE AND DESIGN

Plot Width, Unit: 10 FT                      Plot Length, Unit: 40 FT                      Reps: 4  
 Site Type: FIELD  
 Tillage Type: CONVENTIONAL                      Study Design: RANDOMIZED COMPLETE BLOCK



# The Ohio State University

## POTATO VINE DESSICATION STUDY

### MAINTENANCE

Field Prep./Maintenance: FERTILIZED WITH 1100# 15-15-15 @ PLANTING

No.	Date	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1	06/09/2000	2#M45,1PT.DIMATE,2OZSPRED					
2	06/16/2000	2#M45,2OZ.SPREADER					
3	06/23/2000	2.5#RIDOMIL GOLD					
4	06/29/2000	2#M45					
5	07/07/2000	2.5# RIDOMIL GOLD					
6	07/13/2000	6.2OZ QUADRIS,1PT.DIMATE					
7	07/18/2000	1.3 GAL.SPROUT STOP					
8	07/20/2000	2#M45,2OZ. SPREADER					
9	07/27/2000	6.2 OZ. QUADRIS					
10	08/02/2000	2#M45,1PT.DIMATE,2OZ.SPRD					
11	08/11/2000	2#M45,2OZ.SPREADER					
12	08/24/2000	2#M45,2OZ. SPREADER					

### SOIL DESCRIPTION

% OM:	2.6	Texture:	SILT LOAM
pH:	6.5	Soil Name:	CANFIELD/RAVENNA
CEC:	7.6	Fert. Level:	MODERATE

Overall Moisture Conditions: MOIST

Closest Weather Station: OARDC

Distance: 8

Unit: MI

### APPLICATION DESCRIPTION

	A	B
Application Date:	08/17/2000	08/24/2000
Time of Day:	11-12AM	2-3PM
Application Method:	SPRAY	SPRAY
Application Timing:	21 DBH	14 DBH
Applic. Placement:	BDCST	BDCST
Air Temp., Unit:	61 F	69 F
% Relative Humidity:	94	85
Wind Velocity, Unit:	3 MPH	4 MPH
Dew Presence (Y/N):	N	N
Water Hardness:	SOFT	SOFT
Soil Temp., Unit:	65 F	65 F
Soil Moisture:	DRY	DRY
% Cloud Cover:	50	50

### CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	SOLTU POTATO	SOLTU POTATO
Stage Scale:	UNIFORM	UNIFORM
Height, Unit:	18 INCH	24 INCH

### WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	NONE NONE	NONE NONE
Stage Scale:	NONE	NONE
Density, Unit:	NONE NONE	NONE NONE

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## POTATO VINE DESSICATION STUDY

### APPLICATION EQUIPMENT

A	
Appl. Equipment:	BACKPACK
Operating Pressure:	35PSI
Nozzle Type:	FFAN
Nozzle Size:	8002VS
Nozzle Spacing, Unit:	18 IN
Nozzles/Row:	4
Band Width, Unit:	5 FT
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):	Y

### Trial Comments

APPLY RELY AND DIQUAT @ 14 DAYS BEFORE HARVEST , A SECOND APPLICATION OF DIQUAT SHOULD BE MADE 7 DAYS AFTER THE FIRST .ASSESS DEFOLIATION @ 7, AND 14 DAYS. YIELD IN CWT. SKIN SET AND TUBER ROT IF APPLICABLE.

### NOTES:

8/24/00:TREATMENT#1(CONTROL) PLOTS STARTING TO NATURALLY YELLOW-APPROX, 10-15% BROWNING OF FOILAGE& STEMS.

8/30/00:TMT,#2&#4 ARE VERY SIMILAR-BOTH TREATMENT'S LEAVES ARE DEAD AND STEMS ARE SHOWING 20-30% GREEN

9/8/00:FOILAGE IN CONTROL PLOTS ARE NOW ABOUT HALF DEAD. -TMT #3 IS VERY BRITTLE AND BREAKS APART EASILY  
TMTS 2&4 HAVE PROGRESSED AND NOW ARE SHOWING ABOUT 10% GREEN STEMS

9/18/00; CONTROL PLOTS' LEAVES ARE 85-90% DEAD (NATURALLY); TMT#3'S REMAINING STEMS ARE BLEACHED OUT AND ARE 30% OF THE ORIGINAL MASS;TMTS 2&4 'S STEMS ARE COMPLETELY BROWN AND ABOUT 30% BLEACHED  
AND BRITTLE.TMT #2 SEEMS TO HAVE A SLIGHTLY HIGHER EDGE ON TREATMENT #4 IN REGARDS TO DEFOLIATION

9/18/00: HARVESTED POTATOES IN EXPERIMENTAL PLOT.DUG THREE PLANTS (3' OF ROW) IN PLOT CENTER.WE THEN WEIGHED AND GRADED THE POTATOES ACCORDING TO THE CHIPPING (ROUND) POTATO GRADE AND YIELD EVALUATIONS GUIDELINES.

IN THE AOV MEANS TABLE HEADINGS UNDER "PART RATED" THE LETTER "F" UNDER POTATO REFERS TO FOILAGE IN COLUMNS 6-8,UNDER RATING DATA TYPE,0-2,2-3&>3"REFERS TO POTATO DIAMETER. COLUMN 9 IS TRUE CULLS,GREEN DISEASED, AND ROTTEN; COLUMN 10 REFERS TO MISSHAPEN. TREATMENTS DID NOT AFFECT TUBER SKIN SET.

# The Ohio State University

## POTATO VINE DESSICATION STUDY

Trial ID: POTATSMITH-00 -Study Dir.: DR.D.DOOHAN AND T.KOCH

Location: SMITHVILLE,OHIO -Investigator: Dr. Douglas J. Doohan

Crop Code							POTATO	POTATO	POTATO	
Part Rated							F	F	F	
Rating Data Type							DEFOLIAT	DEFOLIAT	DEFOLIAT	
Rating Unit							%	%	%	
Rating Date							8/24/00	8/30/00	9/8/00	
# Subsamples, Dec.							0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3
1	UNTREATED							10 b	28 c	53 c
2	RELY	120	SL	3	PT/A	14 DBH		0 c	89 ab	94 b
	AMMONIUM SULFATE	100	SG	3	LB/A	14 DBH				
3	DIQUAT	240	SL	1.5	PT/A	14,21DBH		88 a	95 a	100 a
4	RELY	120	SL	3	PT/A	14 DBH'		0 c	88 b	95 b
	AMMONIUM SULFATE	100	SG	3	LB/A	14 DBH'				
	TATTOO C	750	SC	2.26	PT/A	14 DBH'				
LSD (P=.05)								2.3	6.6	3.3
Standard Deviation								1.4	4.1	2.1
CV								5.92	5.49	2.44

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

# The Ohio State University

## POTATO VINE DESSICATION STUDY

Trial ID: POTATSMITH-00 -Study Dir.: DR.D.DOOHAN AND T.KOCH

Location: SMITHVILLE,OHIO -Investigator: Dr. Douglas J. Doohan

							POTATO	POTATO	SOLTU	
							F	F	F	
							DEFOLIAT	TOT.WT.	WT.0-2"D	
							%	POUNDS	LBS/3 FT	
							9/18/00	9/21/00	9/21/00	
							0	0	0	
Trt	Treatment	Form	Form	Product	Product	Grow	Appl			
No.	Name	Conc	Type	Rate	Rate Unit	Stg	Code	4	5	6
1	UNTREATED							88 b	8 a	1 a
2	RELY	120	SL		3 PT/A	14 DBH		100 a	8 a	1 a
	AMMONIUM SULFATE	100	SG		3 LB/A	14 DBH				
3	DIQUAT	240	SL		1.5 PT/A	14,21DBH		100 a	9 a	2 a
4	RELY	120	SL		3 PT/A	14 DBH'		100 a	8 a	1 a
	AMMONIUM SULFATE	100	SG		3 LB/A	14 DBH'				
	TATTOO C	750	SC		2.26 PT/A	14 DBH'				
LSD (P=.05)								2.3	3	1.2
Standard Deviation								1.4	1.9	0.8
CV								1.49	23.33	66.84

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

# The Ohio State University

## POTATO VINE DESSICATION STUDY

Trial ID: POTATSMITH-00 -Study Dir.: DR.D.DOOHAN AND T.KOCH

Location: SMITHVILLE,OHIO -Investigator: Dr. Douglas J. Doohan

Crop Code							SOLTU	SOLTU	SOLTU	
Part Rated							F	F	F	
Rating Data Type							WT.2-3"D	WT.>3"D	WT./CULL	
Rating Unit							LBS/3 FT	LBS/3 FT	LBS/3 FT	
Rating Date							9/21/00	9/21/00	9/21/00	
# Subsamples, Dec.							0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	7	8	9
1	UNTREATED							4 a	1 a	1 a
2	RELY	120	SL	3	PT/A	14 DBH		4 a	2 a	1 a
	AMMONIUM SULFATE	100	SG	3	LB/A	14 DBH				
3	DIQUAT	240	SL	1.5	PT/A	14,21DBH		5 a	1 a	1 a
4	RELY	120	SL	3	PT/A	14 DBH'		4 a	2 a	1 a
	AMMONIUM SULFATE	100	SG	3	LB/A	14 DBH'				
	TATTOO C	750	SC	2.26	PT/A	14 DBH'				
LSD (P=.05)							2.3	1.3	0.8	
Standard Deviation							1.4	0.8	0.5	
CV							33.19	66.18	59.3	

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

# The Ohio State University

## POTATO VINE DESSICATION STUDY

Trial ID: POTATSMITH-00 -Study Dir.: DR.D.DOCHAN AND T.KOCH

Location: SMITHVILLE,OHIO -Investigator: Dr. Douglas J. Doohan

Crop Code								SOLTU
Part Rated								F
Rating Data Type								WT. MISS
Rating Unit								LBS/3 FT
Rating Date								9/21/00
# Subsamples, Dec.								0
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	10
1	UNTREATED							0 a
2	RELY	120	SL		3 PT/A	14 DBH		0 a
	AMMONIUM SULFATE	100	SG		3 LB/A	14 DBH		
3	DIQUAT	240	SL		1.5 PT/A	14,21DBH		0 a
4	RELY	120	SL		3 PT/A	14 DBH'		0 a
	AMMONIUM SULFATE	100	SG		3 LB/A	14 DBH'		
	TATTOO C	750	SC		2.26 PT/A	14 DBH'		
LSD (P=.05)								0.2
Standard Deviation								0.2
CV								299.28

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

# The Ohio State University

## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00                      Study Dir.: DR.DOUGLAS J.DOOHAN AND TIM KOCH  
 Location: FREMONT, OHIO                      Investigator: Dr. Douglas J. Doohan

### GENERAL TRIAL INFORMATION

Study Director: DR.DOUGLAS J. DOOHAN AND TIM 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: May-17-00  
 Country: USA                      Planned Completion Date: \_\_\_\_\_  
 E-Longitude of LL Corner °: 41.000000                      N-Latitude of LL Corner °: \_\_\_\_\_  
 Altitude of LL Corner: 636.00                      Unit: FT ASL                      Angle y-axis to North °: \_\_\_\_\_  
 Directions: CORNER OF CR 43 AND SR 53, SOUTHWEST OF FREMONT, OHIO (SANDUSKY COUNTY)

### COOPERATOR/LANDOWNER

Cooperator: KEN SCAIFE                      Country: USA  
 Org: OARDC VEG.CROPS RESEARCH BRANCH                      Phone No: (419)332-5142  
 Address 1: 1165 CR 43                      Fax No: \_\_\_\_\_  
 Address 2: \_\_\_\_\_  
 City: FREMONT  
 State/Prov: OHIO  
 Postal Code: 43420

Conducted Under GLP (Y/N): N                      Conducted Under GEP (Y/N): N  
 Guidelines: \_\_\_\_\_                      Guideline Description: \_\_\_\_\_

Objective: DETERMINE SENSITIVITY OF POPULAR SWEET CORN VARIETIES TO VARIOUS  
 HERBICIDES.  
 Conclusions:

# The Ohio State University

**SWEET CORN VARIETY/HERBICIDE SCREENING**

Trial ID: SWTCNFREMT-00 Study Dir.: DR.DOUGLAS J.DOOHAN AND TIM KOCH  
 Location: FREMONT, OHIO Investigator: Dr. Douglas J. Doohan

**CROP AND WEED DESCRIPTION**

Weed	Code	Common Name	Scientific Name
1	NONE		

Crop 1: ZEAMS SWEET CORN Variety: VARIOUS  
 Planting Date: May-17-00 Planting Method: CONVENTIONAL  
 Rate: 3 SEEDS/FOOT Depth: 2 IN Perennial Age: \_\_\_\_\_  
 Row Spacing: 30 INCH Seed Bed: CONVENTIONAL  
 Soil Temperature: 45 F Soil Moisture: \_\_\_\_\_ Emergence Date: \_\_\_\_\_

**SITE AND DESIGN**

Plot Width, Unit: 5 FT Plot Length, Unit: 100 FT Reps: 1  
 Site Type: LEVEL,WELL-DRAINED  
 Tillage Type: CONVENTIONAL Study Design: NON-RANDOMIZED

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1	RR SOYBEANS		

**MAINTENANCE**

Field Prep./Maintenance: WORKED AREA WITH S-TINE FIELD CULTIVATOR AND CULTIPACKER  
 MAY 17 PLANTED WITH JOHN DEERE 71. EACH CULTIVAR WAS 2 ROWS, 30" ROWS, 180 FT. LONG.  
 6/12 -THINNED TO 8"  
 6/26 SIDEDRESSED 46-0-0 (174 LB/A)

No.	Date	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1	05/26/2000	ATRAZINE 4L	EC	4	L	2	PT/A

**SOIL DESCRIPTION**

% Sand: \_\_\_\_\_ % OM: 4 Texture: SANDY LOAM  
 % Silt: \_\_\_\_\_ pH: 6.1 Soil Name: COLWOOD FINE SANDY LOAM  
 % Clay: \_\_\_\_\_ CEC: \_\_\_\_\_ Fert. Level: MODERATE

**ADDITIONAL MEASURED ELEMENTS**

Element	Quantity	Unit

**MOISTURE CONDITIONS**

	Date	Time	Amount	Unit	Type	Interval	Unit
1							

Overall Moisture Conditions: MOIST  
 Closest Weather Station: OARDC VEG. CROPS RES. STATION Distance: 0 Unit: MI



# The Ohio State University

## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00

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

Location: FREMONT, OHIO

Investigator: Dr. Douglas J. Doohan

### APPLICATION DESCRIPTION

	A	B
Application Date:	05/26/2000	06/19/2000
Time of Day:	9-10AM	7-9PM
Application Method:	BDCST	BDCST
Application Timing:	PRE/SPIKE	POST
Applic. Placement:	BROSOL	BROFOL
Air Temp., Unit:	53 F	69 F
% Relative Humidity:	72	95
Wind Velocity, Unit:	2 MPH	1 MPH
Dew Presence (Y/N):	N	N
Water Hardness:	SOFT	SOFT
Soil Temp., Unit:	45 F	55 F
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	30	25

### CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMS PRE/SPIKE	ZEAMS POST
Stage Scale:	SPIKE	DESCRIPT
Height, Unit:	0 IN	18 IN

### WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	NONE 0
Stage Scale:	V0
Density, Unit:	0 FT

### APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	TRACTOR	BACKPACK
Operating Pressure:	30	35
Nozzle Type:	FFAN	FFAN
Nozzle Size:	8002VS	8002VS
Nozzle Spacing, Unit:	15 IN	18 IN
Nozzles/Row:	4	4
Band Width, Unit:	5 FT	5 FT
Boom Length, Unit:		
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Incorporation Equip.:	-	-
Hours to Incorp.:	0	0
Incorp. Depth, Unit:	0 "	0 "
Carrier:	H2O	H2O
Spray Volume, Unit:	27 GPA	3 L
Spray pH:	0	0
Propellant:	PTO	CO2
Tank Mix (Y/N):	N	Y

Trt No	Treatment Application Comment

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## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00                      Study Dir.: DR.DOUGLAS J.DOOHAN AND TIM KOCH  
 Location: FREMONT, OHIO                      Investigator: Dr. Douglas J. Doohan

### Trial Comments

PLOT SIZE 16 X 75; 180' TOTAL ROW LENGTH; 2 ROWS PER CULTIVAR; 30" BETWEEN ROWS;  
 SPRAYED 5' SECTION FOR EACH HERBICIDE;.

JUNE 29: THERE ARE 2 COLUMNS PER VARIETY; THE FIRST IS THE AVERAGE PLANT HEIGHT  
 (GROUND-GROWING TIP) IN THE 5' SPRAYED SWATH. THE SECOND COLUMN REFLECTS STUNT  
 RATING FROM 0-10, 10 BEING HIGHLY STUNTED COMPARED TO THE UNSPRAYED AREA OUTSIDE OF  
 THE 5' SWATH.

JULY 11: PERCENT STUNT (HEIGHT) RATINGS (FROM 0-100) TAKEN ON TREATMENTS 3 ,4, 5, 6,  
 10, AND 13 ONLY.

JULY 26: INJURY RATING ON ALL TREATMENTS AND VARIETIES FROM 0-5 (0=NONE AND  
 5=SEVERE) THESE RATINGS ARE CLASSED INTO 3 DIVISIONS.

STUNT=(HEIGHT)

TWISTING=(STEM OR LEAF CURLING)

IRLEAF=IRREGULAR LEAF (CROWDED OR UNUSUALLY EXCESSIVE AMOUNT OF FLARED LEAVES NEAR  
 CORN EAR).

ABBREVIATION	FULL NAME
CANDY CN	CANDY CORN
SWEET RM	SWEET RYTHM
INCRDBLE	INCREDIBLE
KNDYKING	KANDY KING
BANDIT	BANDIT
SWTCHORS	SWEET CHORUS
TEMPTATI	TEMPTATION
CRNFORTU	CORN FORTUNE
SWEETICE	SWEET ICE
SWTSYMPH	SWEET SYMPHONY
TUXEDO	TUXEDO
AMAIZSWT	AMAZINGLY SWEET
CONFECTN	CONFECTION
ICEQUEEN	ICE QUEEN
XTRA TEN	XTRA TENDER
SLVRKING	SILVER KING

UNDER "PART RATED" IN THE SUMMARY, "C" =CROP

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## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00

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

Location: FREMONT, OHIO

Investigator: Dr. Douglas J. Doohan

Crop Code		CANDY CN	CANDY CN	SWEETRTH	SWEETRTH
Part Rated		ZEAMS	ZEAMS	ZEAMS	ZEAMS
Rating Data Type		HEIGHT	STUNT	HEIGHT	STUNT
Rating Unit		INCHES	0-10	INCHES	0-10
Rating Date		6/29/00	6/29/00	6/29/00	6/29/00
# Subsamples, Dec.		1	0	1	0
Trt No.	Treatment Name	Rate	Unit		
1	PROWL	1.85 LB A/A		19	4
2	PROWL	1.85 LB A/A		24	6
3	AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0547 LB A/A 0.95 % V/V 2.5 % V/V		24	5
4	ACCENT+ COC+ NITROGEN 28%	0.0312 LB A/A 0.95 % V/V 2.5 % V/V		26	6
5	AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0484 LB A/A 0.95 % V/V 2.5 % V/V		23	7
6	ACCENT+ SPIRIT+ COC+ NITROGEN 28%	0.0156 LB A/A 0.0178 LB A/A 0.95 % V/V 2.5 % V/V		22	6
7	STINGER	0.5 LB A/A		28	5
8	2,4-D AMINE	0.5 LB A/A		26	5
9	BANVEL	0.5 LB A/A		22	5
10	DISTINCT	0.175 LB A/A		26	5
11	DUAL MAGNUM	1.43 LB A/A		31	6
12	FRONTIER	1 LB A/A		27	5
13	PERMIT+ COC	0.0623 LB A/A 0.95 % V/V		21	4
14	CONTROL			29	0
	LSD (P=.05)			.	.
	Standard Deviation			.	.
	CV			.	.

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## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00 Study  
 Location: FREMONT, OHIO Investig

Crop Code		SWEETRTH	INCRDBLE	KNDYKING	KNDYKING
Part Rated		ZEAMS	ZEAMS	ZEAMS	ZEAMS
Rating Data Type		HEIGHT	STUNT	HEIGHT	STUNT
Rating Unit		INCHES	0-10	INCHES	0-10
Rating Date		6/29/00	6/29/00	6/29/00	6/29/00
# Subsamples, Dec.		1	0	1	0
Trt Treatment	Rate				
No. Name	Rate Unit				
1 PROWL	1.85 LB A/A	15.8	4	17.8	5
2 PROWL	1.85 LB A/A	19	5	25.3	5
3 AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0547 LB A/A 0.95 % V/V 2.5 % V/V	21	6	23.8	6
4 ACCENT+ COC+ NITROGEN 28%	0.0312 LB A/A 0.95 % V/V 2.5 % V/V	21.5	5	24	7
5 AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0484 LB A/A 0.95 % V/V 2.5 % V/V	21.8	6	21.6	7
6 ACCENT+ SPIRIT+ COC+ NITROGEN 28%	0.0156 LB A/A 0.0178 LB A/A 0.95 % V/V 2.5 % V/V	18.8	4	21.1	5
7 STINGER	0.5 LB A/A	24.9	4	28.8	6
8 2,4-D AMINE	0.5 LB A/A	21.3	6	27.1	5
9 BANVEL	0.5 LB A/A	21	4	26.6	5
10 DISTINCT	0.175 LB A/A	21.6	5	30.6	5
11 DUAL MAGNUM	1.43 LB A/A	25.1	5	25.1	5
12 FRONTIER	1 LB A/A	25.5	5	31.3	5
13 PERMIT+ COC	0.0623 LB A/A 0.95 % V/V	20.3	5	13.5	3
14 CONTROL		27.6	0	22.3	0
LSD (P=.05)		.	.	.	.
Standard Deviation		.	.	.	.
CV		.	.	.	.

# The Ohio State University

## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00 Study  
 Location: FREMONT, OHIO Investigator:

Crop Code		BANDIT	BANDIT	SWTCHORS	SWTCHORS		
Part Rated		ZEAMS	ZEAMS	ZEAMS	ZEAMS		
Rating Data Type		HEIGHT	STUNT	HEIGHT	STUNT		
Rating Unit		INCHES	0-10	INCHES	0-10		
Rating Date		6/29/00	6/29/00	6/29/00	6/29/00		
# Subsamples, Dec.		1	0	1	0		
Trt No.	Treatment Name	Rate	Unit				
1	PROWL	1.85	LB A/A	25.5	6	26.6	5
2	PROWL	1.85	LB A/A	23.9	7	30.4	4
3	AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0547	LB A/A 0.95 % V/V 2.5 % V/V	22	7	29.1	6
4	ACCENT+ COC+ NITROGEN 28%	0.0312	LB A/A 0.95 % V/V 2.5 % V/V	23.3	7	30.5	5
5	AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0484	LB A/A 0.95 % V/V 2.5 % V/V	23.1	7	27.5	7
6	ACCENT+ SPIRIT+ COC+ NITROGEN 28%	0.0156	LB A/A 0.0178 LB A/A 0.95 % V/V 2.5 % V/V	23.8	5	32.5	5
7	STINGER	0.5	LB A/A	26.5	5	32.8	4
8	2,4-D AMINE	0.5	LB A/A	24.5	5	31.1	4
9	BANVEL	0.5	LB A/A	21.1	5	27.3	4
10	DISTINCT	0.175	LB A/A	26	5	35	5
11	DUAL MAGNUM	1.43	LB A/A	31.3	5	32.7	5
12	FRONTIER	1	LB A/A	29.3	6	37	4
13	PERMIT+ COC	0.0623	LB A/A 0.95 % V/V	16.4	4	29.5	3
14	CONTROL			29	0	37.8	0
	LSD (P=.05)			.	.	.	.
	Standard Deviation			.	.	.	.
	CV			.	.	.	.

# The Ohio State University

## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00 Study  
 Location: FREMONT, OHIO Investic

Crop Code		TEMPTAT	TEMPTAT	CRNFORTU	CRNFORTU
Part Rated		ZEAMS	ZEAMS	ZEAMS	ZEAMS
Rating Data Type		HEIGHT	STUNT	HEIGHT	STUNT
Rating Unit		INCHES	0-10	INCHES	0-10
Rating Date		6/29/00	6/29/00	6/29/00	6/29/00
# Subsamples, Dec.		1	0	1	0
Trt Treatment	Rate				
No. Name	Rate Unit				
1 PROWL	1.85 LB A/A	25	6	15.8	4
2 PROWL	1.85 LB A/A	29	5	16.5	3
3 AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0547 LB A/A 0.95 % V/V 2.5 % V/V	28	5	12.4	5
4 ACCENT+ COC+ NITROGEN 28%	0.0312 LB A/A 0.95 % V/V 2.5 % V/V	30	6	19.8	5
5 AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0484 LB A/A 0.95 % V/V 2.5 % V/V	24	7	20.6	5
6 ACCENT+ SPIRIT+ COC+ NITROGEN 28%	0.0156 LB A/A 0.0178 LB A/A 0.95 % V/V 2.5 % V/V	33	6	18.4	5
7 STINGER	0.5 LB A/A	29	6	18.4	4
8 2,4-D AMINE	0.5 LB A/A	31	4	14.4	4
9 BANVEL	0.5 LB A/A	29	6	14.4	4
10 DISTINCT	0.175 LB A/A	33	5	22.8	4
11 DUAL MAGNUM	1.43 LB A/A	31	5	17.6	3
12 FRONTIER	1 LB A/A	32	5	20.9	5
13 PERMIT+ COC	0.0623 LB A/A 0.95 % V/V	23	4	14.4	4
14 CONTROL		33	0	17.5	0
LSD (P=.05)		.	.	.	.
Standard Deviation		.	.	.	.
CV		.	.	.	.

# The Ohio State University

## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00 Study  
 Location: FREMONT, OHIO Investig

Crop Code		SWEETICE	SWEETICE	SWTSYMPH	SWTSYMPH		
Part Rated		ZEAMS	ZEAMS	ZEAMS	ZEAMS		
Rating Data Type		HEIGHT	STUNT	HEIGHT	STUNT		
Rating Unit		INCHES	0-10	INCHES	0-10		
Rating Date		6/29/00	6/29/00	6/29/00	6/29/00		
# Subsamples, Dec.		1	0	1	0		
Trt No.	Treatment Name	Rate	Unit				
1	PROWL	1.85 LB A/A		24.8	6	27.6	5
2	PROWL	1.85 LB A/A		30.9	6	30.5	5
3	AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0547 LB A/A 0.95 % V/V 2.5 % V/V		27.5	6	27.8	6
4	ACCENT+ COC+ NITROGEN 28%	0.0312 LB A/A 0.95 % V/V 2.5 % V/V		33.6	7	28.4	6
5	AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0484 LB A/A 0.95 % V/V 2.5 % V/V		30.1	7	26.4	6
6	ACCENT+ SPIRIT+ COC+ NITROGEN 28%	0.0156 LB A/A 0.0178 LB A/A 0.95 % V/V 2.5 % V/V		31.5	7	30.6	6
7	STINGER	0.5 LB A/A		33.2	5	32.8	5
8	2,4-D AMINE	0.5 LB A/A		31.5	5	32.8	5
9	BANVEL	0.5 LB A/A		29.5	5	26.1	5
10	DISTINCT	0.175 LB A/A		33.8	5	33.4	5
11	DUAL MAGNUM	1.43 LB A/A		33.8	5	29.6	5
12	FRONTIER	1 LB A/A		32.8	5	29.3	5
13	PERMIT+ COC	0.0623 LB A/A 0.95 % V/V		22	4	27.8	4
14	CONTROL			35	0	35.8	0
	LSD (P=.05)			.	.	.	.
	Standard Deviation			.	.	.	.
	CV			.	.	.	.

# The Ohio State University

## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00 Study  
 Location: FREMONT, OHIO Investig

Crop Code		TUXEDO	TUXEDO	AMAZSWT	AMAZSWT
Part Rated		ZEAMS	ZEAMS	ZEAMS	ZEAMS
Rating Data Type		HEIGHT	STUNT	HEIGHT	STUNT
Rating Unit		INCHES	0-10	INCHES	0-10
Rating Date		6/29/00	6/29/00	6/29/00	6/29/00
# Subsamples, Dec.		1	0	1	0
Trt Treatment	Rate				
No. Name	Rate Unit				
1 PROWL	1.85 LB A/A	26	6	25	5
2 PROWL	1.85 LB A/A	29.1	6	29.9	4
3 AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0547 LB A/A 0.95 % V/V 2.5 % V/V	24.9	7	21.4	6
4 ACCENT+ COC+ NITROGEN 28%	0.0312 LB A/A 0.95 % V/V 2.5 % V/V	22	7	24.6	6
5 AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0484 LB A/A 0.95 % V/V 2.5 % V/V	21.3	7	22.9	6
6 ACCENT+ SPIRIT+ COC+ NITROGEN 28%	0.0156 LB A/A 0.0178 LB A/A 0.95 % V/V 2.5 % V/V	23.8	6	26.4	6
7 STINGER	0.5 LB A/A	25.4	5	28.1	5
8 2,4-D AMINE	0.5 LB A/A	25.4	5	27.3	4
9 BANVEL	0.5 LB A/A	25.9	4	24.4	5
10 DISTINCT	0.175 LB A/A	22.3	5	25.6	5
11 DUAL MAGNUM	1.43 LB A/A	31.6	5	28	5
12 FRONTIER	1 LB A/A	31	4	27.8	5
13 PERMIT+ COC	0.0623 LB A/A 0.95 % V/V	23.1	5	23.8	3
14 CONTROL		27.6	0	35.6	0
LSD (P=.05)		.	.	.	.
Standard Deviation		.	.	.	.
CV		.	.	.	.



# The Ohio State University

## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00 Study  
 Location: FREMONT, OHIO Investic

Crop Code		CONFECTN	CONFECTN	ICEQUEEN	ICEQUEEN
Part Rated		ZEAMS	ZEAMS	ZEAMS	ZEAMS
Rating Data Type		HEIGHT	STUNT	HEIGHT	STUNT
Rating Unit		INCHES	0-10	INCHES	0-10
Rating Date		6/29/00	6/29/00	6/29/00	6/29/00
# Subsamples, Dec.		1	0	1	0
Trt Treatment	Rate				
No. Name	Rate Unit				
1 PROWL	1.85 LB A/A	23.4	6	25	6
2 PROWL	1.85 LB A/A	27.5	6	26.3	4
3 AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0547 LB A/A 0.95 % V/V 2.5 % V/V	22.3	7	18.8	5
4 ACCENT+ COC+ NITROGEN 28%	0.0312 LB A/A 0.95 % V/V 2.5 % V/V	23.9	6	27.1	5
5 AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0484 LB A/A 0.95 % V/V 2.5 % V/V	22.9	5	27.2	6
6 ACCENT+ SPIRIT+ COC+ NITROGEN 28%	0.0156 LB A/A 0.0178 LB A/A 0.95 % V/V 2.5 % V/V	27.8	6	27.5	5
7 STINGER	0.5 LB A/A	28.6	6	29.6	5
8 2,4-D AMINE	0.5 LB A/A	27.5	6	28.6	4
9 BANVEL	0.5 LB A/A	24.5	5	26.3	4
10 DISTINCT	0.175 LB A/A	27.9	5	31.5	4
11 DUAL MAGNUM	1.43 LB A/A	29	5	30.8	4
12 FRONTIER	1 LB A/A	26	5	30	4
13 PERMIT+ COC	0.0623 LB A/A 0.95 % V/V	28.4	4	24	4
14 CONTROL		29.9	0	32.2	0
LSD (P=.05)		.	.	.	.
Standard Deviation		.	.	.	.
CV		.	.	.	.

# The Ohio State University

## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00 Study  
 Location: FREMONT, OHIO Investig

Crop Code		XTRA TEN	XTRA TEN	SLVRKING	SLVRKING
Part Rated		ZEAMS	ZEAMS	ZEAMS	ZEAMS
Rating Data Type		HEIGHT	STUNT	HEIGHT	STUNT
Rating Unit		INCHES	0-10	INCHES	0-10
Rating Date		6/29/00	6/29/00	6/29/00	6/29/00
# Subsamples, Dec.		1	0	1	0
Trt No.	Treatment Name	Rate	Unit		
1	PROWL	1.85	LB A/A	23.9	5
2	PROWL	1.85	LB A/A	30	5
3	AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0547	LB A/A 0.95 % V/V 2.5 % V/V	23.6	5
4	ACCENT+ COC+ NITROGEN 28%	0.0312	LB A/A 0.95 % V/V 2.5 % V/V	26.4	7
5	AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0484	LB A/A 0.95 % V/V 2.5 % V/V	23.5	5
6	ACCENT+ SPIRIT+ COC+ NITROGEN 28%	0.0156	LB A/A 0.0178 LB A/A 0.95 % V/V 2.5 % V/V	23	5
7	STINGER	0.5	LB A/A	22.3	5
8	2,4-D AMINE	0.5	LB A/A	27	5
9	BANVEL	0.5	LB A/A	20.4	5
10	DISTINCT	0.175	LB A/A	25.1	4
11	DUAL MAGNUM	1.43	LB A/A	31.6	5
12	FRONTIER	1	LB A/A	28	5
13	PERMIT+ COC	0.0623	LB A/A 0.95 % V/V	25.6	3
14	CONTROL			30.1	0
	LSD (P=.05)			.	.
	Standard Deviation			.	.
	CV			.	.

# The Ohio State University

## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00 Study  
 Location: FREMONT, OHIO Investigator:

Crop Code		CNDYCRNR	SWEETRHY	INCRDBLE	KNDYKING
Part Rated		ZEAMS	ZEAMS	ZEAMS	ZEAMS
Rating Data Type		STUNT	STUNT	STUNT	STUNT
Rating Unit		%	%	%	%
Rating Date		7/11/00	7/11/00	7/11/00	7/11/00
# Subsamples, Dec.		0	0	0	0
Trt No.	Treatment Name	Rate	Unit		
1	PROWL	1.85	LB A/A	0	0
2	PROWL	1.85	LB A/A	0	0
3	AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0547	LB A/A 0.95 % V/V 2.5 % V/V	5	5
4	ACCENT+ COC+ NITROGEN 28%	0.0312	LB A/A 0.95 % V/V 2.5 % V/V	0	0
5	AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0484	LB A/A 0.95 % V/V 2.5 % V/V	10	0
6	ACCENT+ SPIRIT+ COC+ NITROGEN 28%	0.0156	LB A/A 0.0178 LB A/A 0.95 % V/V 2.5 % V/V	10	5
7	STINGER	0.5	LB A/A	0	0
8	2,4-D AMINE	0.5	LB A/A	0	0
9	BANVEL	0.5	LB A/A	0	0
10	DISTINCT	0.175	LB A/A	0	0
11	DUAL MAGNUM	1.43	LB A/A	0	0
12	FRONTIER	1	LB A/A	0	0
13	PERMIT+ COC	0.0623	LB A/A 0.95 % V/V	10	0
14	CONTROL			0	0
LSD (P=.05)				.	.
Standard Deviation				.	.
CV				.	.

# The Ohio State University

## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00 Study  
 Location: FREMONT, OHIO Investig

Crop Code		BANDIT	SWTCHORS	TEMPTAT	CRNFORTU
Part Rated		ZEAMS	ZEAMS	ZEAMS	ZEAMS
Rating Data Type		STUNT	STUNT	STUNT	STUNT
Rating Unit		%	%	%	%
Rating Date		7/11/00	7/11/00	7/11/00	7/11/00
# Subsamples, Dec.		0	0	0	0
Trt Treatment	Rate				
No. Name	Rate Unit				
1 PROWL	1.85 LB A/A	0	0	0	0
2 PROWL	1.85 LB A/A	0	0	0	0
3 AE F130360+	0.0547 LB A/A	0	0	5	0
METHYLATED SEED OIL+	0.95 % V/V				
NITROGEN 28%	2.5 % V/V				
4 ACCENT+	0.0312 LB A/A	0	0	0	0
COC+	0.95 % V/V				
NITROGEN 28%	2.5 % V/V				
5 AE F130360+	0.0484 LB A/A	0	0	0	0
METHYLATED SEED OIL+	0.95 % V/V				
NITROGEN 28%	2.5 % V/V				
6 ACCENT+	0.0156 LB A/A	5	0	0	0
SPIRIT+	0.0178 LB A/A				
COC+	0.95 % V/V				
NITROGEN 28%	2.5 % V/V				
7 STINGER	0.5 LB A/A	0	0	0	0
8 2,4-D AMINE	0.5 LB A/A	0	0	0	0
9 BANVEL	0.5 LB A/A	0	0	0	0
10 DISTINCT	0.175 LB A/A	0	0	0	0
11 DUAL MAGNUM	1.43 LB A/A	0	0	0	0
12 FRONTIER	1 LB A/A	0	0	0	0
13 PERMIT+	0.0623 LB A/A	15	0	10	0
COC	0.95 % V/V				
14 CONTROL		0	0	0	0
LSD (P=.05)		.	.	.	.
Standard Deviation		.	.	.	.
CV		.	.	.	.

# The Ohio State University

## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00 Study  
 Location: FREMONT, OHIO Investigator:

Crop Code		SWEETICE	SWTSYMPH	TUXEDO	AMAZSWT
Part Rated		ZEAMS	ZEAMS	ZEAMS	ZEAMS
Rating Data Type		STUNT	STUNT	STUNT	STUNT
Rating Unit		%	%	%	%
Rating Date		7/11/00	7/11/00	7/11/00	7/11/00
# Subsamples, Dec.		0	0	0	0
Trt No.	Treatment Name	Rate			
		Rate Unit			
1	PROWL	1.85 LB A/A	0	0	0
2	PROWL	1.85 LB A/A	0	0	0
3	AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0547 LB A/A 0.95 % V/V 2.5 % V/V	0	0	5
4	ACCENT+ COC+ NITROGEN 28%	0.0312 LB A/A 0.95 % V/V 2.5 % V/V	0	0	0
5	AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0484 LB A/A 0.95 % V/V 2.5 % V/V	0	10	5
6	ACCENT+ SPIRIT+ COC+ NITROGEN 28%	0.0156 LB A/A 0.0178 LB A/A 0.95 % V/V 2.5 % V/V	0	3	5
7	STINGER	0.5 LB A/A	0	0	0
8	2,4-D AMINE	0.5 LB A/A	0	0	0
9	BANVEL	0.5 LB A/A	0	0	0
10	DISTINCT	0.175 LB A/A	0	0	5
11	DUAL MAGNUM	1.43 LB A/A	0	0	0
12	FRONTIER	1 LB A/A	0	0	0
13	PERMIT+ COC	0.0623 LB A/A 0.95 % V/V	10	15	15
14	CONTROL		0	0	0
	LSD (P=.05)		.	.	.
	Standard Deviation		.	.	.
	CV		.	.	.

# The Ohio State University

## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00 Study  
 Location: FREMONT, OHIO Investigator:

Crop Code		CONFECTN	ICEQUEEN	XTRATNDR	CNDYCRNR
Part Rated		ZEAMS	ZEAMS	ZEAMS	ZEAMS
Rating Data Type		STUNT	STUNT	STUNT	STUNT
Rating Unit		%	%	%	0-5
Rating Date		7/11/00	7/11/00	7/11/00	7/26/00
# Subsamples, Dec.		0	0	0	0
Trt Treatment	Rate				
No. Name	Rate Unit				
1 PROWL	1.85 LB A/A	0	0	0	0
2 PROWL	1.85 LB A/A	0	0	0	0
3 AE F130360+	0.0547 LB A/A	0	10	5	1
METHYLATED SEED OIL+	0.95 % V/V				
NITROGEN 28%	2.5 % V/V				
4 ACCENT+	0.0312 LB A/A	5	0	0	0
COC+	0.95 % V/V				
NITROGEN 28%	2.5 % V/V				
5 AE F130360+	0.0484 LB A/A	5	3	0	1
METHYLATED SEED OIL+	0.95 % V/V				
NITROGEN 28%	2.5 % V/V				
6 ACCENT+	0.0156 LB A/A	0	0	10	1
SPIRIT+	0.0178 LB A/A				
COC+	0.95 % V/V				
NITROGEN 28%	2.5 % V/V				
7 STINGER	0.5 LB A/A	0	0	0	1
8 2,4-D AMINE	0.5 LB A/A	0	0	0	2
9 BANVEL	0.5 LB A/A	0	0	0	0
10 DISTINCT	0.175 LB A/A	0	0	10	0
11 DUAL MAGNUM	1.43 LB A/A	0	0	0	1
12 FRONTIER	1 LB A/A	0	0	0	1
13 PERMIT+	0.0623 LB A/A	10	5	10	1
COC	0.95 % V/V				
14 CONTROL		0	0	0	0
LSD (P=.05)		.	.	.	.
Standard Deviation		.	.	.	.
CV		.	.	.	.

# The Ohio State University

## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00 Study  
 Location: FREMONT, OHIO Investigator:

Crop Code		CNDYCRNR	CNDYCRNR	SWTRTHM	SWTRTHM
Part Rated		ZEAMS	ZEAMS	ZEAMS	ZEAMS
Rating Data Type		IRLEAF	TWISTNG	STUNT	IRLEAF
Rating Unit		0-5	0-5	0-5	0-5
Rating Date		7/26/00	7/26/00	7/26/00	7/26/00
# Subsamples, Dec.		0	0	0	0
Trt No.	Treatment Name	Rate	Unit		
1	PROWL	1.85 LB	A/A	0	0
2	PROWL	1.85 LB	A/A	0	0
3	AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0547 LB 0.95 % 2.5 %	A/V V/V V/V	3	0
4	ACCENT+ COC+ NITROGEN 28%	0.0312 LB 0.95 % 2.5 %	A/V V/V V/V	0	0
5	AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0484 LB 0.95 % 2.5 %	A/V V/V V/V	3	0
6	ACCENT+ SPIRIT+ COC+ NITROGEN 28%	0.0156 LB 0.0178 LB 0.95 % 2.5 %	A/A A/A V/V V/V	0	0
7	STINGER	0.5 LB	A/A	0	2
8	2,4-D AMINE	0.5 LB	A/A	0	2
9	BANVEL	0.5 LB	A/A	1	2
10	DISTINCT	0.175 LB	A/A	0	1
11	DUAL MAGNUM	1.43 LB	A/A	2	1
12	FRONTIER	1 LB	A/A	1	0
13	PERMIT+ COC	0.0623 LB 0.95 %	A/V V/V	0	0
14	CONTROL			0	2
	LSD (P=.05)			.	.
	Standard Deviation			.	.
	CV			.	.

# The Ohio State University

## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00 Study  
 Location: FREMONT, OHIO Investigator:

Crop Code		SWTRTHM	INCRDBLE	INCRDBLE	INCRDBLE
Part Rated		ZEAMS	ZEAMS	ZEAMS	ZEAMS
Rating Data Type		TWISTNG	STUNT	IRLEAF	TWISTNG
Rating Unit		0-5	0-5	0-5	0-5
Rating Date		7/26/00	7/26/00	7/26/00	7/26/00
# Subsamples, Dec.		0	0	0	0
Trt Treatment	Rate				
No. Name	Rate Unit				
1 PROWL	1.85 LB A/A	0	1	0	0
2 PROWL	1.85 LB A/A	0	0	0	0
3 AE F130360+	0.0547 LB A/A	0	0	0	0
METHYLATED SEED OIL+	0.95 % V/V				
NITROGEN 28%	2.5 % V/V				
4 ACCENT+	0.0312 LB A/A	0	0	0	0
COC+	0.95 % V/V				
NITROGEN 28%	2.5 % V/V				
5 AE F130360+	0.0484 LB A/A	0	0	0	0
METHYLATED SEED OIL+	0.95 % V/V				
NITROGEN 28%	2.5 % V/V				
6 ACCENT+	0.0156 LB A/A	0	0	0	0
SPIRIT+	0.0178 LB A/A				
COC+	0.95 % V/V				
NITROGEN 28%	2.5 % V/V				
7 STINGER	0.5 LB A/A	3	0	0	0
8 2,4-D AMINE	0.5 LB A/A	1	3	0	0
9 BANVEL	0.5 LB A/A	1	3	2	0
10 DISTINCT	0.175 LB A/A	2	0	2	1
11 DUAL MAGNUM	1.43 LB A/A	2	0	1	0
12 FRONTIER	1 LB A/A	1	0	1	0
13 PERMIT+	0.0623 LB A/A	2	0	2	1
COC	0.95 % V/V				
14 CONTROL		0	0	0	0
LSD (P=.05)		.	.	.	.
Standard Deviation		.	.	.	.
CV		.	.	.	.



# The Ohio State University

## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00 Study  
 Location: FREMONT, OHIO Investigator:

Crop Code		KNDYKNG	KNDYKNG	KNDYKNG	BANDIT
Part Rated		ZEAMS	ZEAMS	ZEAMS	ZEAMS
Rating Data Type		STUNT	IRLEAF	TWISTNG	STUNT
Rating Unit		0-5	0-5	0-5	0-5
Rating Date		7/26/00	7/26/00	7/26/00	7/26/00
# Subsamples, Dec.		0	0	0	0
Trt Treatment	Rate				
No. Name	Rate Unit				
1 PROWL	1.85 LB A/A	1	0	0	1
2 PROWL	1.85 LB A/A	1	0	0	1
3 AE F130360+	0.0547 LB A/A	2	3	0	1
METHYLATED SEED OIL+	0.95 % V/V				
NITROGEN 28%	2.5 % V/V				
4 ACCENT+	0.0312 LB A/A	1	0	0	0
COC+	0.95 % V/V				
NITROGEN 28%	2.5 % V/V				
5 AE F130360+	0.0484 LB A/A	1	2	0	1
METHYLATED SEED OIL+	0.95 % V/V				
NITROGEN 28%	2.5 % V/V				
6 ACCENT+	0.0156 LB A/A	1	0	0	0
SPIRIT+	0.0178 LB A/A				
COC+	0.95 % V/V				
NITROGEN 28%	2.5 % V/V				
7 STINGER	0.5 LB A/A	1	0	1	1
8 2,4-D AMINE	0.5 LB A/A	0	0	1	0
9 BANVEL	0.5 LB A/A	3	0	1	1
10 DISTINCT	0.175 LB A/A	1	0	1	0
11 DUAL MAGNUM	1.43 LB A/A	0	2	0	0
12 FRONTIER	1 LB A/A	0	2	0	0
13 PERMIT+	0.0623 LB A/A	3	1	1	1
COC	0.95 % V/V				
14 CONTROL		0	0	0	0
LSD (P=.05)		.	.	.	.
Standard Deviation		.	.	.	.
CV		.	.	.	.

# The Ohio State University

## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00 Study  
 Location: FREMONT, OHIO Investigator:

Crop Code		BANDIT	BANDIT	SWTCHOR	SWTCHOR
Part Rated		ZEAMS	ZEAMS	ZEAMS	ZEAMS
Rating Data Type		IRLEAF	TWISTNG	STUNT	IRLEAF
Rating Unit		0-5	0-5	0-5	0-5
Rating Date		7/26/00	7/26/00	7/26/00	7/26/00
# Subsamples, Dec.		0	0	0	0
Trt No.	Treatment Name	Rate	Unit		
1	PROWL	1.85	LB A/A	0	0
2	PROWL	1.85	LB A/A	0	0
3	AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0547	LB A/A 0.95 % V/V 2.5 % V/V	2	0
4	ACCENT+ COC+ NITROGEN 28%	0.0312	LB A/A 0.95 % V/V 2.5 % V/V	0	0
5	AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0484	LB A/A 0.95 % V/V 2.5 % V/V	0	0
6	ACCENT+ SPIRIT+ COC+ NITROGEN 28%	0.0156	LB A/A 0.0178 LB A/A 0.95 % V/V 2.5 % V/V	0	0
7	STINGER	0.5	LB A/A	0	0
8	2,4-D AMINE	0.5	LB A/A	0	0
9	BANVEL	0.5	LB A/A	0	1
10	DISTINCT	0.175	LB A/A	2	0
11	DUAL MAGNUM	1.43	LB A/A	1	2
12	FRONTIER	1	LB A/A	2	0
13	PERMIT+ COC	0.0623	LB A/A 0.95 % V/V	1	0
14	CONTROL			0	0
	LSD (P=.05)			.	.
	Standard Deviation			.	.
	CV			.	.

# The Ohio State University

## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00 Study  
 Location: FREMONT, OHIO Investigator:

Crop Code		SWTCHOR	TEMPTAT	TEMPTAT	TEMPTAT
Part Rated		ZEAMS	ZEAMS	ZEAMS	ZEAMS
Rating Data Type		TWISTNG	STUNT	IRLEAF	TWISTNG
Rating Unit		0-5	0-5	0-5	0-5
Rating Date		7/26/00	7/26/00	7/26/00	7/26/00
# Subsamples, Dec.		0	0	0	0
Trt No.	Treatment Name	Rate	Unit		
1	PROWL	1.85 LB	A/A	0	1
2	PROWL	1.85 LB	A/A	0	0
3	AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0547 LB 0.95 % 2.5 %	A/V V/V V/V	0	2
4	ACCENT+ COC+ NITROGEN 28%	0.0312 LB 0.95 % 2.5 %	A/V V/V V/V	0	1
5	AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0484 LB 0.95 % 2.5 %	A/V V/V V/V	0	2
6	ACCENT+ SPIRIT+ COC+ NITROGEN 28%	0.0156 LB 0.0178 LB 0.95 % 2.5 %	A/A A/A V/V V/V	0	1
7	STINGER	0.5 LB	A/A	3	1
8	2,4-D AMINE	0.5 LB	A/A	2	1
9	BANVEL	0.5 LB	A/A	1	2
10	DISTINCT	0.175 LB	A/A	2	0
11	DUAL MAGNUM	1.43 LB	A/A	3	0
12	FRONTIER	1 LB	A/A	1	1
13	PERMIT+ COC	0.0623 LB 0.95 %	A/V V/V	2	2
14	CONTROL			0	0
	LSD (P=.05)			.	.
	Standard Deviation			.	.
	CV			.	.

# The Ohio State University

## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00 Study  
 Location: FREMONT, OHIO Investic

Crop Code		CORNFORT	CORNFORT	CORNFORT	SWEETICE
Part Rated		ZEAMS	ZEAMS	ZEAMS	ZEAMS
Rating Data Type		STUNT	IRLEAF	TWISTNG	STUNT
Rating Unit		0-5	0-5	0-5	0-5
Rating Date		7/26/00	7/26/00	7/26/00	7/26/00
# Subsamples, Dec.		0	0	0	0
Trt Treatment	Rate				
No. Name	Rate Unit				
1 PROWL	1.85 LB A/A	0	0	0	1
2 PROWL	1.85 LB A/A	1	0	0	0
3 AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0547 LB A/A 0.95 % V/V 2.5 % V/V	0	1	0	0
4 ACCENT+ COC+ NITROGEN 28%	0.0312 LB A/A 0.95 % V/V 2.5 % V/V	0	0	0	0
5 AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0484 LB A/A 0.95 % V/V 2.5 % V/V	0	1	0	0
6 ACCENT+ SPIRIT+ COC+ NITROGEN 28%	0.0156 LB A/A 0.0178 LB A/A 0.95 % V/V 2.5 % V/V	0	0	0	0
7 STINGER	0.5 LB A/A	2	0	0	2
8 2,4-D AMINE	0.5 LB A/A	2	0	1	2
9 BANVEL	0.5 LB A/A	2	1	2	3
10 DISTINCT	0.175 LB A/A	0	0	1	0
11 DUAL MAGNUM	1.43 LB A/A	0	1	3	1
12 FRONTIER	1 LB A/A	0	0	1	0
13 PERMIT+ COC	0.0623 LB A/A 0.95 % V/V	1	0	2	1
14 CONTROL		0	0	0	0
LSD (P=.05)		.	.	.	.
Standard Deviation		.	.	.	.
CV		.	.	.	.

# The Ohio State University

## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00 Study  
 Location: FREMONT, OHIO Investigator:

Crop Code		SWEETICE	SWEETICE	SWTSYMPH	SWTSYMPH
Part Rated		ZEAMS	ZEAMS	ZEAMS	ZEAMS
Rating Data Type		IRLEAF	TWISTNG	STUNT	IRLEAF
Rating Unit		0-5	0-5	0-5	0-5
Rating Date		7/26/00	7/26/00	7/26/00	7/26/00
# Subsamples, Dec.		0	0	0	0
Trt No.	Treatment Name	Rate	Unit		
1	PROWL	1.85	LB A/A	0	0
2	PROWL	1.85	LB A/A	0	0
3	AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0547	LB A/A 0.95 % V/V 2.5 % V/V	0	0
4	ACCENT+ COC+ NITROGEN 28%	0.0312	LB A/A 0.95 % V/V 2.5 % V/V	0	0
5	AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0484	LB A/A 0.95 % V/V 2.5 % V/V	0	0
6	ACCENT+ SPIRIT+ COC+ NITROGEN 28%	0.0156	LB A/A 0.0178 LB A/A 0.95 % V/V 2.5 % V/V	0	0
7	STINGER	0.5	LB A/A	0	2
8	2,4-D AMINE	0.5	LB A/A	0	0
9	BANVEL	0.5	LB A/A	1	1
10	DISTINCT	0.175	LB A/A	1	2
11	DUAL MAGNUM	1.43	LB A/A	2	1
12	FRONTIER	1	LB A/A	2	0
13	PERMIT+ COC	0.0623	LB A/A 0.95 % V/V	1	1
14	CONTROL			0	0
	LSD (P=.05)			.	.
	Standard Deviation			.	.
	CV			.	.

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## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00                      Study  
 Location: FREMONT, OHIO                      Investigator

Crop Code		SWTSYMPH	TUXEDO	TUXEDO	TUXEDO
Part Rated		ZEAMS	ZEAMS	ZEAMS	ZEAMS
Rating Data Type		TWISTNG	STUNT	IRLEAF	TWISTNG
Rating Unit		0-5	0-5	0-5	0-5
Rating Date		7/26/00	7/26/00	7/26/00	7/26/00
# Subsamples, Dec.		0	0	0	0
Trt No.	Treatment Name	Rate	Unit		
1	PROWL	1.85	LB A/A	0	0
2	PROWL	1.85	LB A/A	0	0
3	AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0547	LB A/A 0.95 % V/V 2.5 % V/V	0	1
4	ACCENT+ COC+ NITROGEN 28%	0.0312	LB A/A 0.95 % V/V 2.5 % V/V	0	2
5	AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0484	LB A/A 0.95 % V/V 2.5 % V/V	0	1
6	ACCENT+ SPIRIT+ COC+ NITROGEN 28%	0.0156 0.0178	LB A/A LB A/A 0.95 % V/V 2.5 % V/V	0	2
7	STINGER	0.5	LB A/A	1	0
8	2,4-D AMINE	0.5	LB A/A	2	0
9	BANVEL	0.5	LB A/A	2	1
10	DISTINCT	0.175	LB A/A	2	1
11	DUAL MAGNUM	1.43	LB A/A	0	1
12	FRONTIER	1	LB A/A	2	1
13	PERMIT+ COC	0.0623	LB A/A 0.95 % V/V	1	2
14	CONTROL			0	0
	LSD (P=.05)			.	.
	Standard Deviation			.	.
	CV			.	.

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## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00 Study  
 Location: FREMONT, OHIO Investigator:

Crop Code		AMAZSWT	AMAZSWT	AMAZSWT	CONFECTN
Part Rated		ZEAMS	ZEAMS	ZEAMS	ZEAMS
Rating Data Type		STUNT	IRLEAF	TWISTNG	STUNT
Rating Unit		0-5	0-5	0-5	0-5
Rating Date		7/26/00	7/26/00	7/26/00	7/26/00
# Subsamples, Dec.		0	0	0	0
Trt Treatment	Rate				
No. Name	Rate Unit				
1 PROWL	1.85 LB A/A	0	0	0	0
2 PROWL	1.85 LB A/A	0	0	0	0
3 AE F130360+	0.0547 LB A/A	1	2	0	1
METHYLATED SEED OIL+	0.95 % V/V				
NITROGEN 28%	2.5 % V/V				
4 ACCENT+	0.0312 LB A/A	1	0	0	1
COC+	0.95 % V/V				
NITROGEN 28%	2.5 % V/V				
5 AE F130360+	0.0484 LB A/A	0	0	0	1
METHYLATED SEED OIL+	0.95 % V/V				
NITROGEN 28%	2.5 % V/V				
6 ACCENT+	0.0156 LB A/A	0	0	0	1
SPIRIT+	0.0178 LB A/A				
COC+	0.95 % V/V				
NITROGEN 28%	2.5 % V/V				
7 STINGER	0.5 LB A/A	1	0	0	0
8 2,4-D AMINE	0.5 LB A/A	1	0	1	0
9 BANVEL	0.5 LB A/A	0	0	2	1
10 DISTINCT	0.175 LB A/A	0	2	1	0
11 DUAL MAGNUM	1.43 LB A/A	0	1	0	2
12 FRONTIER	1 LB A/A	0	1	2	2
13 PERMIT+	0.0623 LB A/A	0	0	0	1
COC	0.95 % V/V				
14 CONTROL		0	0	0	0
LSD (P=.05)		.	.	.	.
Standard Deviation		.	.	.	.
CV		.	.	.	.

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## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00                      Study  
 Location: FREMONT, OHIO                      Investigator

Crop Code		CONFECTN	CONFECTN	ICEQUEEN	ICEQUEEN
Part Rated		ZEAMS	ZEAMS	ZEAMS	ZEAMS
Rating Data Type		IRLEAF	TWISTNG	STUNT	IRLEAF
Rating Unit		0-5	0-5	0-5	0-5
Rating Date		7/26/00	7/26/00	7/26/00	7/26/00
# Subsamples, Dec.		0	0	0	0
Trt No.	Treatment Name	Rate	Unit		
1	PROWL	1.85	LB A/A	0	0
2	PROWL	1.85	LB A/A	0	0
3	AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0547	LB A/A 0.95 % V/V 2.5 % V/V	3	0
4	ACCENT+ COC+ NITROGEN 28%	0.0312	LB A/A 0.95 % V/V 2.5 % V/V	0	0
5	AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0484	LB A/A 0.95 % V/V 2.5 % V/V	1	0
6	ACCENT+ SPIRIT+ COC+ NITROGEN 28%	0.0156	LB A/A 0.0178 LB A/A 0.95 % V/V 2.5 % V/V	0	0
7	STINGER	0.5	LB A/A	0	0
8	2,4-D AMINE	0.5	LB A/A	0	0
9	BANVEL	0.5	LB A/A	1	0
10	DISTINCT	0.175	LB A/A	2	2
11	DUAL MAGNUM	1.43	LB A/A	1	0
12	FRONTIER	1	LB A/A	2	1
13	PERMIT+ COC	0.0623	LB A/A 0.95 % V/V	2	1
14	CONTROL			0	0
	LSD (P=.05)			.	.
	Standard Deviation			.	.
	CV			.	.



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## SWEET CORN VARIETY/HERBICIDE SCREENING

Trial ID: SWTCNFREMT-00 Study  
 Location: FREMONT, OHIO Investigator:

Crop Code	ICEQUEEN	XTRATNDR	XTRATNDR	XTRATNDR
Part Rated	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Rating Data Type	TWISTNG	STUNT	IRLEAF	TWISTNG
Rating Unit	0-5	0-5	0-5	0-5
Rating Date	7/26/00	7/26/00	7/26/00	7/26/00
# Subsamples, Dec.	0	0	0	0
Trt Treatment	Rate			
No. Name	Rate Unit			
1 PROWL	1.85 LB A/A	0	2	0
2 PROWL	1.85 LB A/A	0	0	0
3 AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0547 LB A/A 0.95 % V/V 2.5 % V/V	0	1	1
4 ACCENT+ COC+ NITROGEN 28%	0.0312 LB A/A 0.95 % V/V 2.5 % V/V	0	1	0
5 AE F130360+ METHYLATED SEED OIL+ NITROGEN 28%	0.0484 LB A/A 0.95 % V/V 2.5 % V/V	0	1	1
6 ACCENT+ SPIRIT+ COC+ NITROGEN 28%	0.0156 LB A/A 0.0178 LB A/A 0.95 % V/V 2.5 % V/V	0	1	0
7 STINGER	0.5 LB A/A	0	1	0
8 2,4-D AMINE	0.5 LB A/A	1	1	0
9 BANVEL	0.5 LB A/A	2	3	1
10 DISTINCT	0.175 LB A/A	1	0	1
11 DUAL MAGNUM	1.43 LB A/A	0	0	0
12 FRONTIER	1 LB A/A	0	0	2
13 PERMIT+ COC	0.0623 LB A/A 0.95 % V/V	0	2	0
14 CONTROL		0	0	0
LSD (P=.05)		.	.	.
Standard Deviation		.	.	.
CV		.	.	.