

Ohio State University
Horticulture and Crop Science

Bayer Crop Science Two Pass Programs

Title No. 2:
 Trial ID: 12CRNYLD2 Protocol ID: 12CRNYLD2
 Location: Western Branch Big E Study Director: Anthony F. Dobbels
 Project ID: HP12NARBLN Investigator: Dr. Mark M. Loux
 Sponsor Contact: Dave Lamore, Bayer CropScience

General Trial Information

Study Director: Anthony F. Dobbels Title: Research Specialist
 Investigator: Dr. Mark M. Loux Title: Professor

Trial Location

City: South Charleston Latitude of LL Corner °: 39.85778 N
 State/Prov.: Ohio Longitude of LL Corner °: 83.67004 W
 Postal Code: 45368
 Country: USA

Crop Description

Crop 1: ZEAMX Zea mays Corn
 Variety: Dekalb DKC 61-21 Description: RR/LL
 BBCH Scale: BCOR Planting Date: Apr-19-2012
 Planting Method: SEEDED seeded Rate, Unit: 32097 S/A
 Depth, Unit: 2 IN
 Row Spacing, Unit: 30 IN
 Seed Bed: MEDIUM medium Soil Temperature, Unit: 56 F
 Soil Moisture: GOOD good Emergence Date: May-4-2012

Pest Description

Pest 1 Type: W Code: SETFA Setaria faberi
 Common Name: Giant foxtail
 Pest 2 Type: W Code: AMBTR Ambrosia trifida
 Common Name: Giant ragweed
 Pest 3 Type: W Code: CHEAL Chenopodium album
 Common Name: Common lambsquarters
 Pest 4 Type: W Code: ABUTH Abutilon theophrasti
 Common Name: velvetleaf
 Pest 5 Type: W Code: AMARE Amaranthus retroflexus
 Common Name: Redroot pigweed
 Pest 6 Type: W Code: POLPY Persicaria pensylvanica
 Common Name: Pennsylvania smartweed

Site and Design

Plot Width, Unit: 10 FT Site Type: FIELD field
 Plot Length, Unit: 30 FT Experimental Unit: 1 PLOT plot
 Plot Area, Unit: 300 FT2 Tillage Type: CONTIL conventional-till
 Replications: 4 Study Design: RACOB� Randomized Complete Block (RCB)
 Untreated Arrangement: INCLUDED single control randomized in each block

Soil Description

Description Name: Big E
 % OM: 2.2 Texture: SICL silty clay loam
 pH: 6.1 Soil Name: Kokomo
 CEC: 14

Application Description

	A	B
Application Date:	Apr-19-2012	May-23-2012
Time of Day:	1:30 P.M.	9:00AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MPO
Application Placement:	BROSOI	BROFOL
Air Temperature, Unit:	76 F	69 F
% Relative Humidity:	48	67
Wind Velocity, Unit:	2 MPH	2 MPH
Wind Direction:	N	NNE
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	60 F	67 F
Soil Moisture:	GOOD	DRY
% Cloud Cover:	7	85
Next Rain Occurred On:	Apr-20-2012	May-31-2012

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Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:	14	100
Height, Unit:	12	IN
Height Minimum, Maximum:	12	12

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:	12	100
Height, Unit:	1.5	IN
Height Minimum, Maximum:	1	2
Density, Unit:	39	M2
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	11	100
Height, Unit:	1.5	IN
Height Minimum, Maximum:	1	2
Density, Unit:	19	M2
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:	14	100
Height, Unit:	1	IN
Height Minimum, Maximum:	1	1
Density, Unit:	62	M2
Pest 4 Code, Type, Scale:	ABUTH W	ABUTH W
Stage Majority, Percent:	14	100
Height, Unit:	2	IN
Height Minimum, Maximum:	2	2
Density, Unit:	1.3	M2
Pest 5 Code, Type, Scale:	AMARE W	AMARE W
Stage Majority, Percent:	14	100
Height, Unit:	0.75	IN
Height Minimum, Maximum:	0.5	1
Density, Unit:	70	M2
Pest 6 Code, Type, Scale:	POLPY W	POLPY W
Stage Majority, Percent:	12	100
Height, Unit:	0.75	IN
Height Minimum, Maximum:	0.5	1
Density, Unit:	10	M2

Application Equipment

	A	B
Appl. Equipment:	10 Foot Boom	10' AI XR
Equipment Type:	SPRBAC	SPRBAC
Operation Pressure, Unit:	46 PSI	46 PSI
Nozzle Type:	AI XR	AI XR
Nozzle Size:	110015	110015
Nozzle Spacing, Unit:	18 IN	18 IN
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GPA
Mix Size, Unit:	2 Liters	2 Liters
Propellant:	CO2	CO2

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Pest Type	W Weed	W Weed	W Weed	W Weed								
Pest Code	SETFA	AMBTR	AMBEL	CHEAL								
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ambrosia artem>	Chenopodium al>								
Pest Name	Giant foxtail	Giant Common ragweed	Common lambsqu>									
Crop Code	ZEAMX											
BBCH Scale	BCOR											
Crop Scientific Name	Zea mays											
Crop Name	Corn											
Rating Date	May-14-2012	May-14-2012	May-14-2012	May-14-2012								
Rating Type	PHYNEC	CONTRO	CONTRO	CONTRO								
Rating Unit												
Number of Subsamples	1	1	1	1								
Rating Timing	10 DAE	10 DAE	10 DAE	10 DAE								
Days After First/Last Applic.	25 25	25 25	25 25	25 25								
Trt-Eval Interval	25 DA-A	25 DA-A	25 DA-A	25 DA-A								
Plant-Eval Interval	25 DP-1	25 DP-1	25 DP-1	25 DP-1								
Days After Emergence	10 DE-1	10 DE-1	10 DE-1	10 DE-1								
Number of Decimals	0	0	0	0								
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	5
1	UTC							0 a	0 b	0 b	0 b	0 b
2	Corvus	0.0616 lb ai/a		3 oz/a		PRE	A	1 a	97 a	87 a	100 a	100 a
	2 Atrazine	1 lb ai/a		1 qt/a		PRE						
	2 Liberty	0.402 lb ai/a		22 oz/a		MPO	B					
	2 Laudis	0.082 lb ai/a		3 oz/a		MPO						
	2 Clarity	0.25 lb ai/a		8 oz/a		MPO						
	2 N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO						
3	Corvus	0.0616 lb ai/a		3 oz/a		PRE	A	0 a	91 a	85 a	100 a	100 a
	3 Atrazine	1 lb ai/a		1 qt/a		PRE						
	3 Liberty	0.402 lb ai/a		22 oz/a		MPO	B					
	3 Laudis	0.082 lb ai/a		3 oz/a		MPO						
	3 Clarity	0.5 lb ai/a		16 oz/a		MPO						
	3 N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO						
4	Corvus	0.0616 lb ai/a		3 oz/a		PRE	A	0 a	91 a	88 a	100 a	100 a
	4 Atrazine	1 lb ai/a		1 qt/a		PRE						
	4 Liberty	0.402 lb ai/a		22 oz/a		MPO	B					
	4 Capreno	0.082 lb ai/a		3 oz/a		MPO						
	4 Clarity	0.25 lb ai/a		8 oz/a		MPO						
	4 N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO						
5	Corvus	0.0616 lb ai/a		3 oz/a		PRE	A	0 a	93 a	79 a	100 a	99 a
	5 Atrazine	1 lb ai/a		1 qt/a		PRE						
	5 Liberty	0.402 lb ai/a		22 oz/a		MPO	B					
	5 Capreno	0.082 lb ai/a		3 oz/a		MPO						
	5 Clarity	0.5 lb ai/a		16 oz/a		MPO						
	5 N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO						
6	Lumax	1.48 lb ai/a		1.5 qt/a		PRE	A	1 a	100 a	86 a	100 a	96 a
	6 Halex GT	1.97 lb ai/a		3.6 pt/a		MPO	B					
	6 NIS	0.25 % v/v		4.8 oz/a		MPO						
7	Surestart	1.06 lb ai/a		2 pt/a		PRE	A	0 a	100 a	88 a	100 a	100 a
	7 Durango DMA	0.69 lb ae/a		22 oz/a		MPO	B					
	7 Status	0.175 lb ai/a		5 oz/a		MPO						
	7 N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO						
8	Corvus	0.0616 lb ai/a		3 oz/a		PRE	A	1 a	94 a	88 a	100 a	100 a
	8 Atrazine	1 lb ai/a		1 qt/a		PRE						
	8 Liberty	0.402 lb ai/a		22 oz/a		MPO	B					
	8 Clarity	0.25 lb ai/a		8 oz/a		MPO						
	8 N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO						
	LSD (P=.05)							1.1	9.6	10.1	0.0	4.2
	Standard Deviation							0.8	6.5	6.8	0.0	2.8
	CV							245.65	7.81	9.12	0.0	3.26

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Pest Type	W Weed	W Weed	W Weed	W Weed								
Pest Code	AMARE	ABUTH	SETFA	AMBTR								
Pest Scientific Name	Amaranthus ret>	Abutilon theop>	Setaria faberi	Ambrosia trifi>								
Pest Name	Redroot pigweed	velvetleaf	Giant foxtail	Giant ragweed								
Crop Code			ZEAMX									
BBCH Scale			BCOR									
Crop Scientific Name			Zea mays									
Crop Name			Corn									
Rating Date	May-14-2012	May-14-2012	May-22-2012	May-22-2012	May-22-2012							
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO							
Rating Unit												
Number of Subsamples	1	1	1	1	1							
Rating Timing	10 DAE	10 DAE	AT POST	AT POST	AT POST							
Days After First/Last Applic.	25 25	25 25	33 33	33 33	33 33							
Trt-Eval Interval	25 DA-A	25 DA-A	33 DA-A	33 DA-A	33 DA-A							
Plant-Eval Interval	25 DP-1	25 DP-1	33 DP-1	33 DP-1	33 DP-1							
Days After Emergence	10 DE-1	10 DE-1	18 DE-1	18 DE-1	18 DE-1							
Number of Decimals	0	0	0	0	0							
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	6	7	8	9	10
1	UTC							0 b	0 b	0 a	0 b	0 d
2	Corvus	0.0616 lb ai/a		3 oz/a		PRE	A	98 a	100 a	0 a	97 a	90 ab
	2 Atrazine	1 lb ai/a		1 qt/a		PRE						
	2 Liberty	0.402 lb ai/a		22 oz/a		MPO	B					
	2 Laudis	0.082 lb ai/a		3 oz/a		MPO						
	2 Clarity	0.25 lb ai/a		8 oz/a		MPO						
	2 N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO						
3	Corvus	0.0616 lb ai/a		3 oz/a		PRE	A	100 a	96 a	0 a	94 a	85 abc
	3 Atrazine	1 lb ai/a		1 qt/a		PRE						
	3 Liberty	0.402 lb ai/a		22 oz/a		MPO	B					
	3 Laudis	0.082 lb ai/a		3 oz/a		MPO						
	3 Clarity	0.5 lb ai/a		16 oz/a		MPO						
	3 N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO						
4	Corvus	0.0616 lb ai/a		3 oz/a		PRE	A	100 a	96 a	0 a	94 a	90 a
	4 Atrazine	1 lb ai/a		1 qt/a		PRE						
	4 Liberty	0.402 lb ai/a		22 oz/a		MPO	B					
	4 Capreno	0.082 lb ai/a		3 oz/a		MPO						
	4 Clarity	0.25 lb ai/a		8 oz/a		MPO						
	4 N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO						
5	Corvus	0.0616 lb ai/a		3 oz/a		PRE	A	99 a	96 a	0 a	93 a	78 c
	5 Atrazine	1 lb ai/a		1 qt/a		PRE						
	5 Liberty	0.402 lb ai/a		22 oz/a		MPO	B					
	5 Capreno	0.082 lb ai/a		3 oz/a		MPO						
	5 Clarity	0.5 lb ai/a		16 oz/a		MPO						
	5 N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO						
6	Lumax	1.48 lb ai/a		1.5 qt/a		PRE	A	100 a	100 a	0 a	98 a	80 bc
	6 Halex GT	1.97 lb ai/a		3.6 pt/a		MPO	B					
	6 NIS	0.25 % v/v		4.8 oz/a		MPO						
7	Surestart	1.06 lb ai/a		2 pt/a		PRE	A	100 a	97 a	0 a	100 a	78 c
	7 Durango DMA	0.69 lb ae/a		22 oz/a		MPO	B					
	7 Status	0.175 lb ai/a		5 oz/a		MPO						
	7 N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO						
8	Corvus	0.0616 lb ai/a		3 oz/a		PRE	A	100 a	100 a	0 a	96 a	86 abc
	8 Atrazine	1 lb ai/a		1 qt/a		PRE						
	8 Liberty	0.402 lb ai/a		22 oz/a		MPO	B					
	8 Clarity	0.25 lb ai/a		8 oz/a		MPO						
	8 N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO						
LSD (P=.05)								3.0	5.2	0.0	9.3	10.4
Standard Deviation								2.0	3.5	0.0	6.3	7.1
CV								2.31	4.1	0.0	7.55	9.66

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Pest Type	W Weed	W Weed	W Weed	W Weed								
Pest Code	CHEAL	AMARE	ABUTH	AMBEL								
Pest Scientific Name	Chenopodium al>	Amaranthus ret>	Abutilon theop>	Ambrosia artem>								
Pest Name	Common lambsqu>	Redroot pigweed	velvetleaf	Common ragweed								
Crop Code					ZEAMX							
BBCH Scale					BCOR							
Crop Scientific Name					Zea mays							
Crop Name					Corn							
Rating Date	May-22-2012	May-22-2012	May-22-2012	May-22-2012	May-30-2012							
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYSTU							
Rating Unit					%							
Number of Subsamples	1	1	1	1	1							
Rating Timing	AT POST	AT POST	AT POST	AT POST								
Days After First/Last Applic.	33 33	33 33	33 33	33 33	41 7							
Trt-Eval Interval	-1 DA-B	33 DA-A	33 DA-A	33 DA-A	7 DA-B							
Plant-Eval Interval	33 DP-1	33 DP-1	33 DP-1	33 DP-1	41 DP-1							
Days After Emergence	18 DE-1	18 DE-1	18 DE-1	18 DE-1	26 DE-1							
Number of Decimals	0	0	0	0	0							
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	11	12	13	14	15
1	UTC							0 b	0 b	0 b	0 b	0 b
2	Corvus	0.0616 lb ai/a		3 oz/a		PRE	A	100 a	100 a	100 a	100 a	0 b
	2 Atrazine	1 lb ai/a		1 qt/a		PRE						
	2 Liberty	0.402 lb ai/a		22 oz/a		MPO	B					
	2 Laudis	0.082 lb ai/a		3 oz/a		MPO						
	2 Clarity	0.25 lb ai/a		8 oz/a		MPO						
	2 N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO						
3	Corvus	0.0616 lb ai/a		3 oz/a		PRE	A	100 a	100 a	100 a	100 a	0 b
	3 Atrazine	1 lb ai/a		1 qt/a		PRE						
	3 Liberty	0.402 lb ai/a		22 oz/a		MPO	B					
	3 Laudis	0.082 lb ai/a		3 oz/a		MPO						
	3 Clarity	0.5 lb ai/a		16 oz/a		MPO						
	3 N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO						
4	Corvus	0.0616 lb ai/a		3 oz/a		PRE	A	100 a	100 a	100 a	100 a	5 a
	4 Atrazine	1 lb ai/a		1 qt/a		PRE						
	4 Liberty	0.402 lb ai/a		22 oz/a		MPO	B					
	4 Capreno	0.082 lb ai/a		3 oz/a		MPO						
	4 Clarity	0.25 lb ai/a		8 oz/a		MPO						
	4 N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO						
5	Corvus	0.0616 lb ai/a		3 oz/a		PRE	A	100 a	83 a	100 a	100 a	8 a
	5 Atrazine	1 lb ai/a		1 qt/a		PRE						
	5 Liberty	0.402 lb ai/a		22 oz/a		MPO	B					
	5 Capreno	0.082 lb ai/a		3 oz/a		MPO						
	5 Clarity	0.5 lb ai/a		16 oz/a		MPO						
	5 N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO						
6	Lumax	1.48 lb ai/a		1.5 qt/a		PRE	A	95 a	100 a	100 a	100 a	1 b
	6 Halex GT	1.97 lb ai/a		3.6 pt/a		MPO	B					
	6 NIS	0.25 % v/v		4.8 oz/a		MPO						
7	Surestart	1.06 lb ai/a		2 pt/a		PRE	A	100 a	100 a	95 a	100 a	0 b
	7 Durango DMA	0.69 lb ae/a		22 oz/a		MPO	B					
	7 Status	0.175 lb ai/a		5 oz/a		MPO						
	7 N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO						
8	Corvus	0.0616 lb ai/a		3 oz/a		PRE	A	100 a	100 a	100 a	100 a	0 b
	8 Atrazine	1 lb ai/a		1 qt/a		PRE						
	8 Liberty	0.402 lb ai/a		22 oz/a		MPO	B					
	8 Clarity	0.25 lb ai/a		8 oz/a		MPO						
	8 N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO						
LSD (P=.05)								5.2	18.2	5.2	0.0	3.1
Standard Deviation								3.5	12.4	3.5	0.0	2.1
CV								4.07	14.5	4.07	0.0	121.39

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed							
Pest Code	SETFA	AMBTR	AMBEL	CHEAL	AMARE							
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Ambrosia artemisiifolia	Chenopodium album	Amaranthus retrofractus							
Pest Name	Giant foxtail	Giant ragweed	Common ragweed	Common lambsquarters	Redroot pigweed							
Crop Code												
BBCH Scale												
Crop Scientific Name												
Crop Name												
Rating Date	Jun-25-2012	Jun-25-2012	Jun-25-2012	Jun-25-2012	Jun-25-2012							
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO							
Rating Unit												
Number of Subsamples	1	1	1	1	1							
Rating Timing												
Days After First/Last Applic.	67 33	67 33	67 33	67 33	67 33							
Trt-Eval Interval	33 DA-B	33 DA-B	33 DA-B	33 DA-B	33 DA-B							
Plant-Eval Interval	67 DP-1	67 DP-1	67 DP-1	67 DP-1	67 DP-1							
Days After Emergence	52 DE-1	52 DE-1	52 DE-1	52 DE-1	52 DE-1							
Number of Decimals	0	0	0	0	0							
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	16	17	18	19	20
1	UTC							0 c	0 b	0 b	0 b	0 d
2	Corvus	0.0616 lb ai/a		3 oz/a		PRE	A	90 ab	95 a	100 a	100 a	99 a
	Atrazine	1 lb ai/a		1 qt/a		PRE						
	Liberty	0.402 lb ai/a		22 oz/a		MPO	B					
	Laudis	0.082 lb ai/a		3 oz/a		MPO						
	Clarity	0.25 lb ai/a		8 oz/a		MPO						
	N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO						
3	Corvus	0.0616 lb ai/a		3 oz/a		PRE	A	89 ab	92 a	100 a	100 a	99 a
	Atrazine	1 lb ai/a		1 qt/a		PRE						
	Liberty	0.402 lb ai/a		22 oz/a		MPO	B					
	Laudis	0.082 lb ai/a		3 oz/a		MPO						
	Clarity	0.5 lb ai/a		16 oz/a		MPO						
	N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO						
4	Corvus	0.0616 lb ai/a		3 oz/a		PRE	A	90 ab	96 a	100 a	100 a	100 a
	Atrazine	1 lb ai/a		1 qt/a		PRE						
	Liberty	0.402 lb ai/a		22 oz/a		MPO	B					
	Capreno	0.082 lb ai/a		3 oz/a		MPO						
	Clarity	0.25 lb ai/a		8 oz/a		MPO						
	N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO						
5	Corvus	0.0616 lb ai/a		3 oz/a		PRE	A	94 a	94 a	100 a	100 a	100 a
	Atrazine	1 lb ai/a		1 qt/a		PRE						
	Liberty	0.402 lb ai/a		22 oz/a		MPO	B					
	Capreno	0.082 lb ai/a		3 oz/a		MPO						
	Clarity	0.5 lb ai/a		16 oz/a		MPO						
	N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO						
6	Lumax	1.48 lb ai/a		1.5 qt/a		PRE	A	92 ab	87 a	100 a	100 a	100 a
	Halex GT	1.97 lb ai/a		3.6 pt/a		MPO	B					
	NIS	0.25 % v/v		4.8 oz/a		MPO						
7	Surestart	1.06 lb ai/a		2 pt/a		PRE	A	87 b	90 a	100 a	100 a	83 c
	Durango DMA	0.69 lb ae/a		22 oz/a		MPO	B					
	Status	0.175 lb ai/a		5 oz/a		MPO						
	N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO						
8	Corvus	0.0616 lb ai/a		3 oz/a		PRE	A	89 b	92 a	100 a	100 a	94 b
	Atrazine	1 lb ai/a		1 qt/a		PRE						
	Liberty	0.402 lb ai/a		22 oz/a		MPO	B					
	Clarity	0.25 lb ai/a		8 oz/a		MPO						
	N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO						
	LSD (P=.05)							5.5	9.7	0.0	0.5	4.5
	Standard Deviation							3.7	6.6	0.0	0.4	3.0
	CV							4.73	8.15	0.0	0.4	3.62

