

# Purdue University

BAS 799 OOH Crop tolerance evaluations: Corn

Trial ID: 06S-THP-CTC-32  
Location: Throckmorton

Study Dir.: Vince Davis  
Investigator: Dr. William G. Johnson

## GENERAL TRIAL INFORMATION

**Study Director:** Vince Davis **Title:** Research Associate  
**Affiliation:** Purdue University  
**Postal Code:** 47907  
**Investigator:** Dr. William G. Johnson **Title:** Associate Professor  
**Affiliation:** Purdue University  
**Postal Code:** 47907

## TRIAL LOCATION

**City:** Lafayette  
**State/Prov.:** IN  
**Postal Code:** 47909-9049  
**Country:** USA  
**Directions:** Field 4A

## COOPERATOR/LANDOWNER

**Cooperator:** Throckmorton-Purdue Ag Center (TPAC) **Country:** USA  
**Org:** Purdue University **Phone No:** (765) 538-3422  
**Address 1:** 8343 US 231 South **Fax No:** (765) 538-3423  
**City:** Lafayette  
**State/Prov:** IN  
**Postal Code:** 47909-9049

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

**Objective:** The objective of this experiment is to demonstrate crop safening with BAS 799 00H and compare crop safety to other key competitive products.

## CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	AMBTR	Giant Ragweed	Ambrosia trifida
2.	ABUTH	Velvetleaf	Abutilon theophrasti

**Crop 1:** ZEAMX CORN, FIELD **Variety:** DKC60-18 RII/YGCB  
**Planting Date:** 28/Apr/2006 **Planting Method:** DIRECT DRILLED  
**Rate:** 30800 S/A **Depth:** 2 IN  
**Row Spacing:** 30 IN **Soil Moisture:** NORMAL **Emergence Date:** 8/May/2006

## SITE AND DESIGN

**Plot Width, Unit:** 10 FT **Plot Length, Unit:** 30 FT **Reps:** 4  
**Site Type:** FIELD  
**Tillage Type:** CONVENTIONAL-TILL **Study Design:** RANDOMIZED COMPLETE BLOCK

	Previous Crops	Previous Pesticides	Year
1.	Soybean		2005

## MAINTENANCE

**Field Prep./Maintenance:** Chisel plowed in the fall. Applied 51 gallon per acre 28% UAN on April 24th and it was incorporated with a field cultivator.

The "bar" treatment was completed with a four-wheeler on June 14th to simulate wind damage. The bar was set at 4 inches above the ground and was pulled 4 mph through the corn.

The Dual II Mag was applied as a preemergence treatment following planting.

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.	28/Apr/2006	Dual II Mag	7.64	LB/GAL	L	1	PT/A

## SOIL DESCRIPTION

**% OM:** 2.9  
**pH:** 6.2 **Soil Name:** Toronto-Millbrook  
**CEC:** 13.3 **Fert. Level:** GOOD

## ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit
Phosphorus	34	ppm
Potassium	124	ppm
Magnesium	430	ppm
Calcium	1400	ppm

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Overall Moisture Conditions: NORMAL

Closest Weather Station: Located on the farm

Distance: 0.5 Unit: MI

## APPLICATION DESCRIPTION

A	
Application Date:	12/Jun/2006
Time of Day:	1:30
Application Method:	SPRAY
Application Timing:	POSPOS
Applic. Placement:	BROFOL
Air Temp., Unit:	76 F
% Relative Humidity:	50
Wind Velocity, Unit:	6 MPH
Dew Presence (Y/N):	N
Water Hardness:	Very Hard
Soil Temp., Unit:	70 F
Soil Moisture:	moist
% Cloud Cover:	10

## CROP STAGE AT EACH APPLICATION

A	
Crop 1 Code, Stage:	ZEAMX
Stage Scale:	V6
Height, Unit:	14 IN

## WEED STAGE AT EACH APPLICATION

A	
Weed 1 Code, Stage:	AMBTR
Stage Scale:	8-10"
Density, Unit:	<1 YD2
Weed 2 Code, Stage:	ABUTH
Stage Scale:	1-4"
Density, Unit:	1-2 YD2

## APPLICATION EQUIPMENT

A	
Appl. Equipment:	Backpack
Operating Pressure:	20 PSI
Nozzle Type:	XR
Nozzle Size:	11002
Nozzle Spacing, Unit:	15 IN
Boom Length, Unit:	10 FT
Boom Height, Unit:	15 IN
Ground Speed, Unit:	3 MPH
Carrier:	H2O
Spray Volume, Unit:	15 GPA
Propellant:	CO2

## Trial Comments

On August 9th, 2006 the corn stage was 35% milk line, and no visual differences in plant stunting or buggy wiping were observed in the remaining plants.

BAS 799 is now registered as Status herbicide.

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## BAS 799 OOH Crop tolerance evaluations: Corn

Trial ID: 06S-THP-CTC-32  
 Location: Throckmorton

Study Dir.: Vince Davis  
 Investigator: Dr. William G. Johnson

								ZEAMX Count	ZEAMX Count number	ZEAMX PHYGEN %	ZEAMX PHYGEN %	ZEAMX PHYDEF %	ZEAMX YIELD	
								12/Jun/2006	16/Jun/2006	16/Jun/2006	26/Jun/2006	10/Jul/2006	8/Nov/2006	
								V5-V6	V6	V6	V9-V10	V12-V13	Harvest	
								13-15"	14-16"	14-16"	48"	6-7"		
												1	1	
								EC+GK	VMD + GK	VMD + GK	GK + VM	GK + VM		
								0 DA-A	4 DA-A	4 DA-A	14 DA-A	28 DA-A	149 DA-A	
Tri	Treatment	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	1	2	3	4	5	6
1	non-treated check							101	36	33	0	0	0	27
								402	30	30	0	0	0	28
								603	31	31	0	0	0	30
								803	33	30	0	0	0	28
								Mean =	33	31	0	0	0	28
2	BAS 799 OOH	0.175	LB A/A	5	OZ/A	POSPOS	A	102	35	33	0	0	20	32
	NIS	0.25	% V/V	0.25	% V/V	POSPOS	A	401	28	25	15	3	25	25
	AMS	5	LB/100 GAL	5	LB/100 GAL	POSPOS	A	508	29	28	10	5	25	33
								702	35	35	5	0	20	32
								Mean =	32	30	8	2	23	31
3	BAS 799 OOH	0.35	LB A/A	10	OZ/A	POSPOS	A	103	31	28	15	5	50	31
	NIS	0.5	% V/V	0.5	% V/V	POSPOS	A	405	30	18	60	10	35	23
	AMS	10	LB/100 GAL	10	LB/100 GAL	POSPOS	A	605	32	28	8	10	35	23
								704	33	29	10	8	25	27
								Mean =	32	26	23	8	36	26
4	BAS 799 OOH	0.175	LB A/A	5	OZ/A	POSPOS	A	104	35	32	0	5	30	33
	COC	1	% V/V	1	% V/V	POSPOS	A	304	29	25	10	5	25	26
	AMS	5	LB/100 GAL	5	LB/100 GAL	POSPOS	A	507	31	26	10	5	25	25
								705	31	25	10	5	10	29
								Mean =	32	27	8	5	23	28
5	BAS 799 OOH	0.35	LB A/A	10	OZ/A	POSPOS	A	105	33	25	20	10	50	30
	COC	2	% V/V	2	% V/V	POSPOS	A	301	31	22	25	10	40	20
	AMS	10	LB/100 GAL	10	LB/100 GAL	POSPOS	A	601	33	34	0	10	15	27
								706	33	28	10	5	20	25
								Mean =	33	27	14	9	31	25
6	Distinct	0.191	LB A/A	4	OZ/A	POSPOS	A	106	32	32	10	5	30	32
	NIS	0.25	% V/V	0.25	% V/V	POSPOS	A	407	28	16	25	10	40	21
	AMS	5	LB/100 GAL	5	LB/100 GAL	POSPOS	A	606	30	28	5	5	35	31
								801	30	23	45	10	25	24
								Mean =	30	25	21	8	33	27
7	Distinct	0.382	LB A/A	8	OZ/A	POSPOS	A	107	33	22	20	10	70	31
	NIS	0.5	% V/V	0.5	% V/V	POSPOS	A	308	27	20	25	10	50	24
	AMS	10	LB/100 GAL	10	LB/100 GAL	POSPOS	A	504	31	18	45	20	60	24
								703	34	29	10	5	50	29
								Mean =	31	22	25	11	58	27
8	Distinct	0.191	LB A/A	4	OZ/A	POSPOS	A	108	31	22	25	5	70	27
	COC	1	% V/V	1	% V/V	POSPOS	A	403	33	18	45	7	80	22
	AMS	5	LB/100 GAL	5	LB/100 GAL	POSPOS	A	602	31	28	10	5	45	25
								708	32	27	15	10	50	27
								Mean =	32	24	24	7	61	25
9	Distinct	0.382	LB A/A	8	OZ/A	POSPOS	A	201	33	17	50	20	65	22
	COC	2	% V/V	2	% V/V	POSPOS	A	406	29	10	75	20	90	14
	AMS	10	LB/100 GAL	10	LB/100 GAL	POSPOS	A	607	29	1	80	23	70	12
								806	31	7	80	20	95	11
								Mean =	31	9	71	21	80	15

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Crop Code									ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Rating Data Type									Count	Count	PHYGEN	PHYGEN	PHYDEF	YIELD
Rating Unit										number	%	%	%	
Rating Date									12/Jun/2006	16/Jun/2006	16/Jun/2006	26/Jun/2006	10/Jul/2006	8/Nov/2006
Crop Stage									V5-V6	V6	V6	V9-V10	V12-V13	Harvest
Crop Stage Scale									13-15"	14-16"	14-16"	48"	6-7"	
Footnote Number													1	1
Assessed By									EC+GK	VMD + GK	VMD + GK	GK + VM	GK + VM	
Trt-Eval Interval									0 DA-A	4 DA-A	4 DA-A	14 DA-A	28 DA-A	149 DA-A
ARM Action Codes														
# Subsamples, Dec.														
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	1	2	3	4	5	6
10	Sterling	0.25	LB A/A	8	FL OZ/A	POSPOS	A	202	33	33	5	5	85	30
	NIS	0.25	% V/V	0.25	% V/V	POSPOS	A	307	34	19	35	15	30	28
	AMS	5	LB/100 GAL	5	LB/100 GAL	POSPOS	A	604	31	16	50	13	45	23
								807	33	8	80	15	80	8
								Mean =	33	19	43	12	60	22
11	Sterling	0.5	LB A/A	16	FL OZ/A	POSPOS	A	203	31	30	15	20	70	27
	NIS	0.5	% V/V	0.5	% V/V	POSPOS	A	302	30	12	75	17	95	11
	AMS	10	LB/100 GAL	10	LB/100 GAL	POSPOS	A	608	30	14	65	20	85	17
								802	32	20	60	13	90	18
								Mean =	31	19	54	18	85	18
12	Sterling	0.25	LB A/A	8	FL OZ/A	POSPOS	A	204	32	17	25	15	80	21
	COC	1	% V/V	1	% V/V	POSPOS	A	305	32	21	25	17	25	24
	AMS	5	LB/100 GAL	5	LB/100 GAL	POSPOS	A	503	32	32	5	13	55	31
								805	31	4	90	15	75	7
								Mean =	32	19	36	15	59	21
13	Sterling	0.5	LB A/A	16	FL OZ/A	POSPOS	A	205	34	26	25	25	80	27
	COC	2	% V/V	2	% V/V	POSPOS	A	306	33	16	50	23	75	18
	AMS	10	LB/100 GAL	10	LB/100 GAL	POSPOS	A	505	31	19	50	25	70	23
								701	30	28	25	20	80	21
								Mean =	32	22	38	23	76	22
14	Callisto	0.094	LB A/A	3	FL OZ/A	POSPOS	A	206	31	31	5	5	10	29
	AAtrex	0.25	LB A/A	0.5	PT/A	POSPOS	A	404	31	25	15	0	0	26
	COC	0.25	% V/V	0.25	% V/V	POSPOS	A	501	30	29	0	3	10	30
	AMS	5	LB/100 GAL	5	LB/100 GAL	POSPOS	A	808	31	32	5	0	10	27
								Mean =	31	29	6	2	8	28
15	Callisto	0.187	LB A/A	6	FL OZ/A	POSPOS	A	207	29	29	5	10	10	29
	AAtrex	0.5	LB A/A	1	PT/A	POSPOS	A	303	31	32	0	0	10	24
	COC	0.5	% V/V	0.5	% V/V	POSPOS	A	502	33	34	0	3	10	27
	AMS	10	LB/100 GAL	10	LB/100 GAL	POSPOS	A	804	30	27	8	0	10	26
								Mean =	31	31	3	3	10	27
16	non-treated check							208	31	32	0	0	0	31
								408	30	31	0	0	0	17
								506	28	28	0	0	0	27
								707	32	26	0	0	0	29
								Mean =	30	29	0	0	0	26

Column 5 Footnote: Harvest 2 rows by 25 feet malformation.

Column 6 Footnote: Harvest 2 rows by 25 feet malformation.

We rated fusing on the brace roots where 0=normal brace roots, and 100=all plants had brace root fusion and

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Crop Code										ZEAMX
Rating Data Type										YIELD
Rating Unit										BU
Rating Date										8/Nov/2006
Crop Stage										Harvest
Crop Stage Scale										
Footnote Number										1
Assessed By										
Trt-Eval Interval										149 DA-A
ARM Action Codes										TY1
# Subsamples, Dec.										1
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot		7
1	non-treated check							101	164.6	
								402	172.0	
								603	185.5	
								803	169.5	
								Mean =	172.9	
2	BAS 799 OOH	0.175	LB A/A	5	OZ/A	POSPOS	A	102	196.5	
	NIS	0.25	% V/V	0.25	% V/V	POSPOS	A	401	155.4	
	AMS	5	LB/100 GAL	5	LB/100 GAL	POSPOS	A	508	203.3	
								702	199.0	
								Mean =	188.6	
3	BAS 799 OOH	0.35	LB A/A	10	OZ/A	POSPOS	A	103	191.0	
	NIS	0.5	% V/V	0.5	% V/V	POSPOS	A	405	138.2	
	AMS	10	LB/100 GAL	10	LB/100 GAL	POSPOS	A	605	138.8	
								704	162.8	
								Mean =	157.7	
4	BAS 799 OOH	0.175	LB A/A	5	OZ/A	POSPOS	A	104	205.1	
	COC	1	% V/V	1	% V/V	POSPOS	A	304	162.1	
	AMS	5	LB/100 GAL	5	LB/100 GAL	POSPOS	A	507	152.3	
								705	180.0	
								Mean =	174.9	
5	BAS 799 OOH	0.35	LB A/A	10	OZ/A	POSPOS	A	105	183.0	
	COC	2	% V/V	2	% V/V	POSPOS	A	301	121.6	
	AMS	10	LB/100 GAL	10	LB/100 GAL	POSPOS	A	601	168.3	
								706	152.3	
								Mean =	156.3	
6	Distinct	0.191	LB A/A	4	OZ/A	POSPOS	A	106	194.1	
	NIS	0.25	% V/V	0.25	% V/V	POSPOS	A	407	131.4	
	AMS	5	LB/100 GAL	5	LB/100 GAL	POSPOS	A	606	189.2	
								801	148.0	
								Mean =	165.7	
7	Distinct	0.382	LB A/A	8	OZ/A	POSPOS	A	107	188.6	
	NIS	0.5	% V/V	0.5	% V/V	POSPOS	A	308	149.9	
	AMS	10	LB/100 GAL	10	LB/100 GAL	POSPOS	A	504	148.6	
								703	180.0	
								Mean =	166.8	
8	Distinct	0.191	LB A/A	4	OZ/A	POSPOS	A	108	164.0	
	COC	1	% V/V	1	% V/V	POSPOS	A	403	132.7	
	AMS	5	LB/100 GAL	5	LB/100 GAL	POSPOS	A	602	154.8	
								708	167.1	
								Mean =	154.6	
9	Distinct	0.382	LB A/A	8	OZ/A	POSPOS	A	201	136.3	
	COC	2	% V/V	2	% V/V	POSPOS	A	406	86.0	
	AMS	10	LB/100 GAL	10	LB/100 GAL	POSPOS	A	607	70.6	
								806	66.9	
								Mean =	90.0	
10	Sterling	0.25	LB A/A	8	FL OZ/A	POSPOS	A	202	185.5	
	NIS	0.25	% V/V	0.25	% V/V	POSPOS	A	307	171.4	
	AMS	5	LB/100 GAL	5	LB/100 GAL	POSPOS	A	604	139.4	
								807	51.6	
								Mean =	137.0	

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Crop Code									ZEAMX
Rating Data Type									YIELD
Rating Unit									BU
Rating Date									8/Nov/2006
Crop Stage									Harvest
Crop Stage Scale									
Footnote Number									1
Assessed By									
Trt-Eval Interval									149 DA-A
ARM Action Codes									TY1
# Subsamples, Dec.									1
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	7
11	Sterling	0.5	LB A/A	16	FL OZ/A	POSPOS	A	203	165.2
	NIS	0.5	% V/V	0.5	% V/V	POSPOS	A	302	66.3
	AMS	10	LB/100 GAL	10	LB/100 GAL	POSPOS	A	608	102.6
								802	109.3
								Mean =	110.9
12	Sterling	0.25	LB A/A	8	FL OZ/A	POSPOS	A	204	130.2
	COC	1	% V/V	1	% V/V	POSPOS	A	305	144.3
	AMS	5	LB/100 GAL	5	LB/100 GAL	POSPOS	A	503	191.0
								805	42.4
								Mean =	127.0
13	Sterling	0.5	LB A/A	16	FL OZ/A	POSPOS	A	205	163.4
	COC	2	% V/V	2	% V/V	POSPOS	A	306	108.1
	AMS	10	LB/100 GAL	10	LB/100 GAL	POSPOS	A	505	138.8
								701	125.9
								Mean =	134.0
14	Callisto	0.094	LB A/A	3	FL OZ/A	POSPOS	A	206	178.7
	AAtrex	0.25	LB A/A	0.5	PT/A	POSPOS	A	404	161.5
	COC	0.25	% V/V	0.25	% V/V	POSPOS	A	501	181.8
	AMS	5	LB/100 GAL	5	LB/100 GAL	POSPOS	A	808	167.1
								Mean =	172.3
15	Callisto	0.187	LB A/A	6	FL OZ/A	POSPOS	A	207	179.3
	AAtrex	0.5	LB A/A	1	PT/A	POSPOS	A	303	148.0
	COC	0.5	% V/V	0.5	% V/V	POSPOS	A	502	164.0
	AMS	10	LB/100 GAL	10	LB/100 GAL	POSPOS	A	804	159.7
								Mean =	162.8
16	non-treated check							208	191.0
								408	105.6
								506	167.7
								707	178.1
								Mean =	160.6

Column 7: TY1 = 6.14185\*[6]

Footnote: Harvest 2 rows by 25 feet

We rated fusing on the brace roots where 0=normal brace roots, and 100=all plants had brace root fusion and malformation.

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## BAS 799 OOH Crop tolerance evaluations: Corn

Trial ID: 06S-THP-CTC-32  
Location: Throckmorton

Study Dir.: Vince Davis  
Investigator: Dr. William G. Johnson

Crop Code Rating Data Type Rating Unit Rating Date Crop Stage Crop Stage Scale Footnote Number Assessed By Tri-Eval Interval ARM Action Codes # Subsamples, Dec.							ZEAMX Count	ZEAMX Count number	ZEAMX PHYGEN %	ZEAMX PHYGEN %	ZEAMX PHYDEF %	ZEAMX YIELD	ZEAMX YIELD BU	
							12/Jun/2006	16/Jun/2006	16/Jun/2006	26/Jun/2006	10/Jul/2006	8/Nov/2006	8/Nov/2006	
							V5-V6	V6	V6	V9-V10	V12-V13	Harvest	Harvest	
							13-15"	14-16"	14-16"	48"	6-7"	1	1	
							EC+GK	VMD + GK	VMD + GK	GK + VM	GK + VM	149 DA-A	149 DA-A	
							0 DA-A	4 DA-A	4 DA-A	14 DA-A	28 DA-A		TY1	
													1	
Tri No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6	7
1	non-treated check							33 ab	31 a	0 f	0 j	0 f	28 ab	172.9 ab
2	BAS 799 OOH NIS AMS	0.175 0.25 5	LB A/A % V/V LB/100 GAL	5 0.25 5	OZ/A % V/V LB/100 GAL	POSPOS POSPOS POSPOS	A A A	32 abc	30 ab	8 ef	2 ij	23 de	31 a	188.6 a
3	BAS 799 OOH NIS AMS	0.35 0.5 10	LB A/A % V/V LB/100 GAL	10 0.5 10	OZ/A % V/V LB/100 GAL	POSPOS POSPOS POSPOS	A A A	32 abc	26 a-d	23 c-f	8 efg	36 d	26 a-d	157.7 a-d
4	BAS 799 OOH COC AMS	0.175 1 5	LB A/A % V/V LB/100 GAL	5 1 5	OZ/A % V/V LB/100 GAL	POSPOS POSPOS POSPOS	A A A	32 abc	27 abc	8 ef	5 ghi	23 de	28 ab	174.9 ab
5	BAS 799 OOH COC AMS	0.35 2 10	LB A/A % V/V LB/100 GAL	10 2 10	OZ/A % V/V LB/100 GAL	POSPOS POSPOS POSPOS	A A A	33 ab	27 ab	14 def	9 efg	31 d	25 a-d	156.3 a-d
6	Distinct NIS AMS	0.191 0.25 5	LB A/A % V/V LB/100 GAL	4 0.25 5	OZ/A % V/V LB/100 GAL	POSPOS POSPOS POSPOS	A A A	30 c	25 a-d	21 c-f	8 fg	33 d	27 a-d	165.7 a-d
7	Distinct NIS AMS	0.382 0.5 10	LB A/A % V/V LB/100 GAL	8 0.5 10	OZ/A % V/V LB/100 GAL	POSPOS POSPOS POSPOS	A A A	31 abc	22 bcd	25 cde	11 def	58 c	27 abc	166.8 abc
8	Distinct COC AMS	0.191 1 5	LB A/A % V/V LB/100 GAL	4 1 5	OZ/A % V/V LB/100 GAL	POSPOS POSPOS POSPOS	A A A	32 abc	24 a-d	24 c-f	7 gh	61 bc	25 a-d	154.6 a-d
9	Distinct COC AMS	0.382 2 10	LB A/A % V/V LB/100 GAL	8 2 10	OZ/A % V/V LB/100 GAL	POSPOS POSPOS POSPOS	A A A	31 abc	9 e	71 a	21 ab	80 a	15 f	90.0 f
10	Sterling NIS AMS	0.25 0.25 5	LB A/A % V/V LB/100 GAL	8 0.25 5	FL OZ/A % V/V LB/100 GAL	POSPOS POSPOS POSPOS	A A A	33 a	19 cd	43 bc	12 de	60 bc	22 b-e	137.0 b-e
11	Sterling NIS AMS	0.5 0.5 10	LB A/A % V/V LB/100 GAL	16 0.5 10	FL OZ/A % V/V LB/100 GAL	POSPOS POSPOS POSPOS	A A A	31 abc	19 cd	54 ab	18 bc	85 a	18 ef	110.9 ef
12	Sterling COC AMS	0.25 1 5	LB A/A % V/V LB/100 GAL	8 1 5	FL OZ/A % V/V LB/100 GAL	POSPOS POSPOS POSPOS	A A A	32 abc	19 d	36 bcd	15 cd	59 bc	21 def	127.0 def
13	Sterling COC AMS	0.5 2 10	LB A/A % V/V LB/100 GAL	16 2 10	FL OZ/A % V/V LB/100 GAL	POSPOS POSPOS POSPOS	A A A	32 abc	22 bcd	38 bcd	23 a	76 ab	22 cde	134.0 cde
14	Callisto AAtrex COC AMS	0.094 0.25 0.25 5	LB A/A LB A/A % V/V LB/100 GAL	3 0.5 0.25 5	FL OZ/A PT/A % V/V LB/100 GAL	POSPOS POSPOS POSPOS POSPOS	A A A A	31 abc	29 ab	6 ef	2 ij	8 ef	28 abc	172.3 abc

