

Northeast Research & Extension Center

2008 Halex GT University Weed Control & Yield in glyphosate tolerant corn

Trial ID: 25 08 SYN HMS002A4 Protocol ID: 08 SYN HMS002A4
Location: Concord, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trial Location

City: Concord
State/Prov.: NE
Postal Code: 68728
Country: USA

Cooperator/Landowner

Cooperator: Haskell Agricultural Laboratory Country: USA
Organization: University of Nebraska Phone No: 402-584-2261
Address 1: 57905 866 RD Fax No: 402-584-3859
City: Concord
State/Prov: NE
Postal Code: 68728

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: Pioneer 35F40 Description: HX1 LL RR2
BBCH Scale: BCOR Planting Date: 06-04-08
Planting Method: seeded Rate, Unit: 24503 s/a
Depth, Unit: 1.75 in
Row Spacing, Unit: 30 in
Soil Moisture: ABOVE NORMAL
Harvest Date: 11-26-08 Harvest Equipment: Almaco 40
Harvested Width, Unit: 5 ft Harvested Length, Unit: 27 ft
% Standard Moisture: 15.5

Pest Description

Pest 1 Type: W Code: SETVI Setaria viridis
Common Name: Green foxtail
Pest 2 Type: W Code: ABUTH Abutilon theophrasti
Common Name: Velvetleaf
Pest 3 Type: W Code: AMATU Amaranthus tuberculatus
Common Name: Tall waterhemp

Site and Design

Plot Width, Unit: 10 FT Site Type: FIELD
Plot Length, Unit: 30 FT Tillage Type: NO-TILL
Replications: 4 Study Design: Randomized Complete Block

Table with 4 columns: Previous Crops, Previous Pesticides, Year. Row 1: Soybean, glyphosate, 2007

Maintenance

Table with 10 columns: No., Date, Maintenance Treatment Name, Form Conc, Form Unit, Form Type, Rate, Rate Unit, Tank Mix. Rows 1-2: glyphosate applications

Soil Description

% Sand: 12 % OM: 3.4 Texture: SILT LOAM
% Silt: 62 pH: 6.7
% Clay: 26 CEC: 20.4 Fert. Level: EXCELLENT

## Application Description

	A	B	C	D
Application Date:	06-04-08	06-18-08	06-30-08	07-11-08
Time of Day:	5:00 pm	11:00 am	2:00 pm	9:00 am
Application Method:	spray	spray	spray	spray
Application Timing:	PRE	EAPOCR	POSPOS	POSPOS
Application Placement:	surface	foliar	foliar	foliar
Applied By:	js	js	js	js
Air Temperature, Unit:	75 F	81 F	86 F	78 F
% Relative Humidity:	70	40	36	60
Wind Velocity, Unit:	1 mph	2 mph	4 mph	4 mph
Wind Direction:	var	S	S	S
Dew Presence (Y/N):	n	n	n	n
Soil Temperature, Unit:	68 F	72 F	82 F	80 F
Soil Moisture:	EXCESSIVE	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	100	50	10	60
Next Rain Occurred On:	06-05-08			

## Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH	BBCH	BBCH
Stage Majority, Percent:		V2 90	V5 80	V8 50
Stage Minimum, Percent:			V4 5	V7 50
Stage Maximum, Percent:		V3 10	V6 15	
Height, Unit:		4 in	10 in	24 in

## Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Disc., Scale:	SETVI W	SETVI W	SETVI W	SETVI W
Height, Unit:		1.5 in	3.5 in	3.5 in
Height Minimum, Maximum:		1 2	3 4	3 4
Density, Unit:		5 m2	5 m2	5 m2
Pest 2 Code, Disc., Scale:	ABUTH W	ABUTH W	ABUTH W	ABUTH W
Height, Unit:		1.5 in	5 in	5 in
Height Minimum, Maximum:		1 2	4 6	4 6
Density, Unit:		5 m2	5 m2	5 m2
Pest 3 Code, Disc., Scale:	AMATU W	AMATU W	AMATU W	AMATU W
Height, Unit:		1 in	5 in	5 in
Height Minimum, Maximum:			4 6	4 6
Density, Unit:		1 m2		

## Application Equipment

	A	B	C	D
Appl. Equipment:	backpack	BACKPACK	BACKPACK	BACKPACK
Operating Pressure, Unit:	20 psi	40 PSI	40 PSI	40 PSI
Nozzle Type:	Turbo Tee	TURBO TEE	TURBO TEE	TURBO TEE
Nozzle Size:	11003	11002	11002	11002
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN
Boom Length, Unit:	10 FT	10 FT	10 FT	10 FT
Boom Height, Unit:	12 IN	12 IN	12 IN	12 IN
Ground Speed, Unit:	2.7 MPH	2.7 MPH	2.7 MPH	2.7 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA	20 GPA
Mix Size, Unit:	1.8 Liters	1.8 Liters	1.8 Liters	1.8 Liters
Propellant:	co2	co2	co2	co2

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Trial ID: 25 08 SYN HMS002A4      Protocol ID: 08 SYN HMS002A4  
 Location: Concord, NE      Study Director: Stevan Knezevic  
    Investigator: Stevan Knezevic

Description						Corn, field	Corn, field	Corn, field	Corn, field	Green foxtail	Green foxtail	Green foxtail	Green foxtail
Rating Date						11-26-08	11-26-08	07-03-08	08-04-08	07-03-08	08-04-08	08-04-08	11-06-08
Rating Data Type						Yield	Moisture	Injury	Injury	Control	Control	Density	Control
Rating Unit						Bu/A15.5	%	Percent	Percent	Percent	Percent	m2 RunCH	Percent
Days After First/Last Applic.						175 138	175 138	29 3	61 24	29 3	61 24	61 24	155 118
Plant-Eval Interval						175 DP-1	175 DP-1	29 DP-1	61 DP-1	29 DP-1	61 DP-1	61 DP-1	155 DP-1
Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Growth Stage								
1	AMMONIUM SULFATE SG HALEX GT 4.38 CS NIS	1 % w/v 3.6 pt/a 0.25 % v/v	1.0 % w/v 2205.0 g a/ha		EAPOCR EAPOCR EAPOCR	189.9 a	14.6 a	0.0 a	0.0 a	99.0 a	95.3 a	2.5 a	95.3 a
2	AMMONIUM SULFATE SG HALEX GT 4.38 CS AATREX 4L NIS	1 % w/v 3.6 pt/a 1 pt/a 0.25 % v/v	1.0 % w/v 2205.0 g a/ha 560.0 g a/ha		EAPOCR EAPOCR EAPOCR EAPOCR	184.5 a	14.5 a	0.0 a	0.0 a	99.0 a	97.5 a	3.8 a	97.5 a
3	LUMAX 3.94 SE AMMONIUM SULFATE SG TOUCHDOWN TOTAL 4.17 SL	2 qt/a 1 % w/v 24 oz/a	2200.0 g a/ha 1.0 % w/v 880.0 g ae/ha		PREPRE POSPOS POSPOS	191.7 a	15.1 a	0.0 a	0.0 a	96.8 a	99.0 a	1.3 a	99.0 a
4	LUMAX 3.94 SE AMMONIUM SULFATE SG HALEX GT 4.38 CS NIS	1.5 qt/a 1 % w/v 3.6 pt/a 0.25 % v/v	1650.0 g a/ha 1.0 % w/v 2205.0 g a/ha		PREPRE POSPOS POSPOS POSPOS	188.7 a	15.4 a	0.0 a	0.0 a	96.8 a	99.0 a	2.8 a	99.0 a
5	BICEP II MAGNUM 5.5 SC AMMONIUM SULFATE SG HALEX GT 4.38 CS NIS	1.3 qt/a 1 % w/v 3.6 pt/a 0.25 % v/v	2000.0 g a/ha 1.0 % w/v 2205.0 g a/ha		PREPRE POSPOS POSPOS POSPOS	197.9 a	14.9 a	0.0 a	0.0 a	83.8 b	99.0 a	2.0 a	99.0 a
6	AATREX 4L AMMONIUM SULFATE SG HALEX GT 4.38 CS NIS	1 qt/a 1 % w/v 3.6 pt/a 0.25 % v/v	1120.0 g a/ha 1.0 % w/v 2205.0 g a/ha		PREPRE POSPOS POSPOS POSPOS	194.6 a	15.5 a	0.0 a	0.0 a	43.8 c	99.0 a	2.3 a	99.0 a
7	HARNESS XTRA 5.6L AMMONIUM SULFATE SG ROUNDUP POWERMAX 540 SL	1.5 qt/a 1 % w/v 22 oz/a	2360.0 g a/ha 1.0 % w/v 870.0 g ae/ha		PREPRE POSPOS POSPOS	196.4 a	14.9 a	0.0 a	0.0 a	95.8 a	99.0 a	2.5 a	99.0 a
8	AMMONIUM SULFATE SG ROUNDUP POWERMAX 540 SL	1 % w/v 22 oz/a	1.0 % w/v 870.0 g ae/ha		EAPOCR EAPOCR	185.5 a	14.6 a	0.0 a	0.0 a	98.5 a	87.5 b	3.8 a	87.5 b
9	AMMONIUM SULFATE SG ROUNDUP POWERMAX 540 SL AMMONIUM SULFATE SG ROUNDUP POWERMAX 540 SL	1 % w/v 22 oz/a 1 % w/v 22 oz/a	1.0 % w/v 870.0 g ae/ha 1.0 % w/v 870.0 g ae/ha		EAPOCR EAPOCR POSPOS POSPOS	187.0 a	15.5 a	0.0 a	0.0 a	99.0 a	99.0 a	2.8 a	99.0 a
10	AMMONIUM SULFATE SG LAUDIS 3.5 SC ROUNDUP POWERMAX 540 SL	1 % w/v 3 oz/a 22 oz/a	1.0 % w/v 92.0 g a/ha 870.0 g ae/ha		EAPOCR EAPOCR EAPOCR	180.5 a	15.0 a	0.0 a	0.0 a	99.0 a	95.8 a	2.3 a	95.8 a
11	AMMONIUM SULFATE SG SURESTART DURANGO DMA 4 SL	1 % w/v 1.75 pt/a 24 oz/a	1.0 % w/v 1040.0 g a/ha 840.0 g ae/ha		EAPOCR EAPOCR EAPOCR	189.4 a	14.6 a	0.0 a	0.0 a	99.0 a	95.3 a	1.3 a	95.3 a
12	AMMONIUM SULFATE SG STATUS 56 WG ROUNDUP POWERMAX 540 SL	1 % w/v 2.5 oz/a 22 oz/a	1.0 % w/v 98.0 g a/ha 870.0 g ae/ha		EAPOCR EAPOCR EAPOCR	188.4 a	16.0 a	0.0 a	0.0 a	99.0 a	95.5 a	2.0 a	95.5 a
13	AMMONIUM SULFATE SG IMPACT 2.8 SC ROUNDUP POWERMAX 540 SL	1 % w/v 0.75 oz/a 22 oz/a	1.0 % w/v 18.3 g a/ha 870.0 g ae/ha		EAPOCR EAPOCR EAPOCR	191.2 a	15.7 a	0.0 a	0.0 a	99.0 a	88.5 b	1.5 a	88.5 b
14	TOUCHDOWN TOTAL 4.17 SL AMMONIUM SULFATE SG LAUDIS 3.5 SC	24 oz/a 1 % w/v 2 oz/a	880.0 g ae/ha 1.0 % w/v 61.3 g a/ha		POSPOS POSPOS POSPOS	191.5 a	14.6 a	0.0 a	0.0 a		99.0 a	1.8 a	99.0 a
15	TOUCHDOWN TOTAL 4.17 SL AMMONIUM SULFATE SG IMPACT 2.8 SC	24 oz/a 1 % w/v 0.5 oz/a	880.0 g ae/ha 1.0 % w/v 12.3 g a/ha		POSPOS POSPOS POSPOS	180.2 a	16.0 a	0.0 a	0.0 a		98.5 a	1.8 a	98.5 a
16	AMMONIUM SULFATE SG TOUCHDOWN TOTAL 4.17 SL CALLISTO 4 SC (WF2795)	1 % w/v 24 oz/a 2 oz/a	1.0 % w/v 880.0 g ae/ha 70.0 g a/ha		POSPOS POSPOS POSPOS	186.1 a	15.1 a	0.0 a	0.0 a		99.0 a	2.3 a	99.0 a
LSD (P=.05)						12.16	1.50	0.00	0.00	6.46	4.52	1.88	4.52
Standard Deviation						8.51	1.05	0.00	0.00	4.52	3.16	1.32	3.16
CV						4.5	6.92	0.0	0.0	4.87	3.27	58.14	3.27
Grand Mean						188.98	15.13	0.0	0.0	92.94	96.61	2.27	96.61

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Description	Corn, field 11-26-08	Corn, field 11-26-08	Corn, field 07-03-08	Corn, field 08-04-08	Green foxtail 07-03-08	Green foxtail 08-04-08	Green foxtail 08-04-08	Green foxtail 11-06-08
Rating Date								
Rating Data Type	Yield	Moisture	Injury	Injury	Control	Control	Density	Control
Rating Unit	Bu/A15.5	%	Percent	Percent	Percent	Percent	m2 RunCH	Percent
Days After First/Last Applic.	175 138	175 138	29 3	61 24	29 3	61 24	61 24	155 118
Plant-Eval Interval	175 DP-1	175 DP-1	29 DP-1	61 DP-1	29 DP-1	61 DP-1	61 DP-1	155 DP-1
Replicate F	1.166	0.030	0.000	0.000	1.310	1.457	4.452	1.457
Replicate Prob(F)	0.3330	0.9928	1.0000	1.0000	0.2863	0.2389	0.0080	0.2389
Treatment F	1.396	0.949	0.000	0.000	46.101	5.458	1.277	5.458
Treatment Prob(F)	0.1907	0.5203	1.0000	1.0000	0.0001	0.0001	0.2558	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)  
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Description						Velvetleaf	Velvetleaf	Velvetleaf	Velvetleaf	Waterhemp	Waterhemp	Waterhemp	Waterhemp
Rating Date						07-03-08	08-04-08	08-04-08	11-06-08	07-03-08	08-04-08	08-04-08	11-06-08
Rating Data Type						Control	Control	Density	Control	Control	Control	Density	Control
Rating Unit						Percent	Percent	m2 RunCH	Percent	Percent	Percent	m2 RunCH	Percent
Days After First/Last Applic.						29 3	61 24	61 24	155 118	29 3	61 24	61 24	155 118
Plant-Eval Interval						29 DP-1	61 DP-1	61 DP-1	155 DP-1	29 DP-1	61 DP-1	61 DP-1	155 DP-1
Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Growth Stage								
1	AMMONIUM SULFATE SG HALEX GT 4.38 CS NIS	1 % w/v 3.6 pt/a 0.25 % v/v	1.0 % w/v 2205.0 g a/ha 0.25 % v/v		EAPOCR EAPOCR EAPOCR	99.0 a	97.5 ab	1.5 a	97.5 ab	99.0 a	99.0 a	1.0 a	99.0 a
2	AMMONIUM SULFATE SG HALEX GT 4.38 CS AATREX 4L NIS	1 % w/v 3.6 pt/a 1 pt/a 0.25 % v/v	1.0 % w/v 2205.0 g a/ha 560.0 g a/ha 0.25 % v/v		EAPOCR EAPOCR EAPOCR EAPOCR	99.0 a	97.0 ab	2.0 a	97.0 ab	99.0 a	99.0 a	1.3 a	99.0 a
3	LUMAX 3.94 SE AMMONIUM SULFATE SG TOUCHDOWN TOTAL 4.17 SL	2 qt/a 1 % w/v 24 oz/a	2200.0 g a/ha 1.0 % w/v 880.0 g ae/ha		PREPRE POSPOS POSPOS	99.0 a	99.0 a	2.5 a	99.0 a	99.0 a	99.0 a	3.5 a	99.0 a
4	LUMAX 3.94 SE AMMONIUM SULFATE SG HALEX GT 4.38 CS NIS	1.5 qt/a 1 % w/v 3.6 pt/a 0.25 % v/v	1650.0 g a/ha 1.0 % w/v 2205.0 g a/ha 0.25 % v/v		PREPRE POSPOS POSPOS POSPOS	97.5 ab	99.0 a	1.5 a	99.0 a	99.0 a	99.0 a	1.8 a	99.0 a
5	BICEP II MAGNUM 5.5 SC AMMONIUM SULFATE SG HALEX GT 4.38 CS NIS	1.3 qt/a 1 % w/v 3.6 pt/a 0.25 % v/v	2000.0 g a/ha 1.0 % w/v 2205.0 g a/ha 0.25 % v/v		PREPRE POSPOS POSPOS POSPOS	67.5 c	98.5 a	1.5 a	98.5 a	92.5 b	99.0 a	1.5 a	99.0 a
6	AATREX 4L AMMONIUM SULFATE SG HALEX GT 4.38 CS NIS	1 qt/a 1 % w/v 3.6 pt/a 0.25 % v/v	1120.0 g a/ha 1.0 % w/v 2205.0 g a/ha 0.25 % v/v		PREPRE POSPOS POSPOS POSPOS	63.8 c	99.0 a	1.3 a	99.0 a	82.5 c	99.0 a	2.0 a	99.0 a
7	HARNESX XTRA 5.6L AMMONIUM SULFATE SG ROUNDUP POWERMAX 540 SL	1.5 qt/a 1 % w/v 22 oz/a	2360.0 g a/ha 1.0 % w/v 870.0 g ae/ha		PREPRE POSPOS POSPOS	86.0 b	99.0 a	2.3 a	99.0 a	94.8 b	99.0 a	3.5 a	99.0 a
8	AMMONIUM SULFATE SG ROUNDUP POWERMAX 540 SL	1 % w/v 22 oz/a	1.0 % w/v 870.0 g ae/ha		EAPOCR EAPOCR	99.0 a	94.5 bc	1.5 a	94.5 bc	99.0 a	96.8 a	2.5 a	96.8 a
9	AMMONIUM SULFATE SG ROUNDUP POWERMAX 540 SL AMMONIUM SULFATE SG ROUNDUP POWERMAX 540 SL	1 % w/v 22 oz/a 1 % w/v 22 oz/a	1.0 % w/v 870.0 g ae/ha 1.0 % w/v 870.0 g ae/ha		EAPOCR EAPOCR POSPOS POSPOS	99.0 a	99.0 a	2.8 a	99.0 a	99.0 a	99.0 a	2.5 a	99.0 a
10	AMMONIUM SULFATE SG LAUDIS 3.5 SC ROUNDUP POWERMAX 540 SL	1 % w/v 3 oz/a 22 oz/a	1.0 % w/v 92.0 g a/ha 870.0 g ae/ha		EAPOCR EAPOCR EAPOCR	98.0 a	97.0 ab	1.8 a	97.0 ab	99.0 a	99.0 a	1.5 a	99.0 a
11	AMMONIUM SULFATE SG SURESTART DURANGO DMA 4 SL	1 % w/v 1.75 pt/a 24 oz/a	1.0 % w/v 1040.0 g a/ha 840.0 g ae/ha		EAPOCR EAPOCR EAPOCR	96.5 ab	93.0 cd	1.0 a	93.0 cd	99.0 a	99.0 a	1.0 a	99.0 a
12	AMMONIUM SULFATE SG STATUS 56 WG ROUNDUP POWERMAX 540 SL	1 % w/v 2.5 oz/a 22 oz/a	1.0 % w/v 98.0 g a/ha 870.0 g ae/ha		EAPOCR EAPOCR EAPOCR	97.5 ab	90.5 d	3.5 a	90.5 d	99.0 a	99.0 a	3.5 a	99.0 a
13	AMMONIUM SULFATE SG IMPACT 2.8 SC ROUNDUP POWERMAX 540 SL	1 % w/v 0.75 oz/a 22 oz/a	1.0 % w/v 18.3 g a/ha 870.0 g ae/ha		EAPOCR EAPOCR EAPOCR	97.5 ab	89.3 d	2.3 a	89.3 d	99.0 a	95.5 a	3.0 a	95.5 a
14	TOUCHDOWN TOTAL 4.17 SL AMMONIUM SULFATE SG LAUDIS 3.5 SC	24 oz/a 1 % w/v 2 oz/a	880.0 g ae/ha 1.0 % w/v 61.3 g a/ha		POSPOS POSPOS POSPOS		99.0 a	1.8 a	99.0 a		99.0 a	2.3 a	99.0 a
15	TOUCHDOWN TOTAL 4.17 SL AMMONIUM SULFATE SG IMPACT 2.8 SC	24 oz/a 1 % w/v 0.5 oz/a	880.0 g ae/ha 1.0 % w/v 12.3 g a/ha		POSPOS POSPOS POSPOS		99.0 a	2.8 a	99.0 a		99.0 a	3.8 a	99.0 a
16	AMMONIUM SULFATE SG TOUCHDOWN TOTAL 4.17 SL CALLISTO 4 SC (WF2795)	1 % w/v 24 oz/a 2 oz/a	1.0 % w/v 880.0 g ae/ha 70.0 g a/ha		POSPOS POSPOS POSPOS		99.0 a	1.3 a	99.0 a		98.5 a	2.3 a	98.5 a
LSD (P=.05)						11.63	3.88	1.85	3.88	2.63	3.03	2.10	3.03
Standard Deviation						8.14	2.72	1.30	2.72	1.84	2.12	1.47	2.12
CV						8.82	2.81	66.96	2.81	1.9	2.15	63.99	2.15
Grand Mean						92.25	96.83	1.94	96.83	96.9	98.61	2.3	98.61
Replicate F						2.017	0.555	0.050	0.555	1.818	0.576	0.547	0.576
Replicate Prob(F)						0.1289	0.6476	0.9852	0.6476	0.1613	0.6336	0.6525	0.6336
Treatment F						9.192	5.724	1.099	5.724	27.042	0.894	1.624	0.894
Treatment Prob(F)						0.0001	0.0001	0.3843	0.0001	0.0001	0.5753	0.1052	0.5753

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

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Description	Velvetleaf	Velvetleaf	Velvetleaf	Velvetleaf	Waterhemp	Waterhemp	Waterhemp	Waterhemp
Rating Date	07-03-08	08-04-08	08-04-08	11-06-08	07-03-08	08-04-08	08-04-08	11-06-08
Rating Data Type	Control	Control	Density	Control	Control	Control	Density	Control
Rating Unit	Percent	Percent	m2 RunCH	Percent	Percent	Percent	m2 RunCH	Percent
Days After First/Last Applic.	29 3	61 24	61 24	155 118	29 3	61 24	61 24	155 118
Plant-Eval Interval	29 DP-1	61 DP-1	61 DP-1	155 DP-1	29 DP-1	61 DP-1	61 DP-1	155 DP-1

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

<b>Additional Treatment Information</b>
<b>Rate Unit</b>
% W/V = Percent, Weight Product per Volume Mix Basis (Metric=same)
PT/A = Pints Product per Acre (Metric=L/HA) P
% V/V = Percent, Volume Product per Volume Mix Basis (Metric=same) Z
QT/A = Quarts Product per Acre (Metric=L/HA) Q
OZ/A = Ounces Product per Acre (Metric=ML-G/HA) O
<b>Other Rate Unit</b>
% W/V = Percent, Weight Product per Volume Mix Basis
G A/HA = Grams Active Ingredient per Hectare
% V/V = Percent, Volume Product per Volume Mix Basis
G AE/HA = Grams Acid Equivalent per Hectare
<b>Growth Stage</b>
EAPOCR = EARLY POST-CROP
PREPRE = PRE-CROP/PRE-PEST
POSPOS = POST-CROP/POST-PEST