

Miscellaneous, Including Sorghum, Pasture, and Wheat

Southern Illinois University

Callisto and Lumax in Sorghum.

Trial ID: 09-5A

Location: Belleville Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
City State Zip Country: Belleville IL 62221 USA
Trial Status: FINAL Initiation Date: 06-30-09

Objectives: Evaluate crop tolerance and weed control of Callisto and Lumax applied in a sequential program with Dual Magnum or applied alone as a post-directed application in grain sorghum.

Crop 1: SORVU Grain sorghum Variety: Pioneer 84662 Description: Concep II
Planting Method: SEEDS Planting Date: 06-30-09
Rate, Unit: 9 LB/A Depth, Unit: 1.0 IN
Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: SETFA Setaria faberi Herrm. foxtail, giant
Pest 2 Type: W Code: ABUTH Abutilon theophrasti Medicus velvetleaf
Pest 3 Type: W Code: AMBEL Ambrosia artemisiifolia L. ragweed, common
Pest 4 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common
Pest 5 Type: W Code: IPOHE Ipomoea hederacea (L.) Jacq. morningglory, ivyleaf

Plot Width, Unit: 10 FT Site Type: FIELD
Plot Length, Unit: 26 FT Tillage Type: REDUCED-TILL
Replications: 3 Study Design: Randomized Complete Block

Prior Crops, Year
1. GLXMA 2008

Field Prep./Maintenance: N 150 LB/A, P205 0 LB/A, K20 100 LB/A

% OM: 1.6 Texture: SILT LOAM
pH: 5.3 Soil Name: WINFIELD
CEC: 8 Fert. Level: P1: 109 LB/A, K: 592 LB/A

	Application Description			
	A	B	C	D
Application Date:	07-01-09	07-16-09	07-16-09	07-23-09
Time of Day:	8:45	15:45	16:00	12:00
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	PRE	6-7"SG	6-7"DIR	11-12"DIR
Application Placement:	BROSOI	BROSOI	BROSOI	BROSOI
Applied By:	DKP	NVH	NVH	NVH
Air Temperature, Unit:	70 F	86 F	86 F	80 F
% Relative Humidity:	92	72	72	60
Wind Velocity, Unit:	4 MPH	3 MPH	3 MPH	1 MPH
Wind Direction:	NW	NE	NE	W
Dew Presence (Y/N):	N	N	N	N
Soil Moisture:	NORMAL	NORMAL	NORMAL	NORMAL
% Cloud Cover:	80	15	15	10

	07-01-09	07-16-09	07-16-09	07-23-09
Crop stage at application:	NA	V4	V4	V5
Height Min, Max (inch):		6 8	6 8	10 12

	Pest Stage At Each Application			
	07-01-09	07-16-09	07-16-09	07-23-09
Application Date:	07-01-09	07-16-09	07-16-09	07-23-09
Weed Code:	SETFA	SETFA	SETFA	SETFA
Stage Majority (leaves):	NA	3	3	3
Stage Min, Max:		1 5	1 5	1 3
Height Majority:		3 IN	3 IN	3 IN
Height Min, Max:		1 6	1 6	1 6
Density, Unit:		10 FT2	10 FT2	0.01 FT2
Weed Code:	ABUTH	ABUTH	ABUTH	ABUTH
Stage Majority (leaves):	NA	2	2	2
Stage Min, Max:		COTY 4	COTY 4	1 4
Height Majority:		2 IN	2 IN	2.5 IN
Height Min, Max:		0.5 2.5	0.5 2.5	1.5 4
Density, Unit:		0.6 FT2	0.6 FT2	1 FT2
Weed Code:	AMBEL	AMBEL	AMBEL	AMBEL
Stage Majority (leaves):	NA	2	2	4
Stage Min, Max:		COTY 3	COTY 3	2 6
Height Majority:		1.5 IN	1.5 IN	3 IN
Height Min, Max:		0.5 3	0.5 3	2 4.5
Density, Unit:		0.2 FT2	0.2 FT2	0.6 FT2
Weed Code:	AMATA	AMATA	AMATA	AMATA
Stage Majority (leaves):	NA	4	4	6
Stage Min, Max:		2 7	2 7	4 12
Height Majority:		2 IN	2 IN	3 IN
Height Min, Max:		1 2.5	1 2.5	1 8
Density, Unit:		1.5 FT2	1.5 FT2	0.01 FT2
Weed Code:	IPOHE	IPOHE	IPOHE	IPOHE
Stage Majority (leaves):	NA	3	3	4
Stage Min, Max:		COTY 5	COTY 5	3 6
Height Majority:		2.5 IN	2.5 IN	5 IN
Height Min, Max:		0.5 4	0.5 4	3 8
Density, Unit:		0.75 FT2	0.75 FT2	0.7 FT2

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Application Equipment

Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	30 PSI	30 PSI	30 PSI	30 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan	Flat fan
Nozzle Size:	XR 8002	XR 8002	XR8002EVS	XR8002EVS
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA	15 GPA

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										SETFA	SETFA	SETFA	SETFA
Pest Code										07-23-09	08-13-09	08-20-09	08-27-09
Crop Code										Control	Control	Control	Control
Rating Date										Percent	Percent	Percent	Percent
Rating Data Type										7 DA-B+C	28 DA-B+C	28 DA-D	42 DA-B+C
Rating Unit										0 DA-D			35 DA-D
Rating Timing													
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NONTREATED									0 e	0 f		0 e
2	LUMAX	3.95	SE	1.48	lb ai/a	1.5	qt/a	6-7"SG	B	52 c	13 e		13 de
2	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"SG	B				
3	PEAK	57	WG	0.0178	lb ai/a	0.5	oz/a	6-7"SG	B	50 c	7 ef		7 de
3	LUMAX	3.95	SE	1.48	lb ai/a	1.5	qt/a	6-7"SG	B				
3	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"SG	B				
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-7"DIR	C	50 c	23 d		20 d
4	LUMAX	3.95	SE	1.48	lb ai/a	1.5	qt/a	6-7"DIR	C				
4	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"DIR	C				
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-7"DIR	C	73 b	70 b		68 b
5	LUMAX	3.95	SE	2.47	lb ai/a	2.5	qt/a	6-7"DIR	C				
5	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"DIR	C				
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-7"DIR	C	70 b	52 c		42 c
6	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	6-7"DIR	C				
6	AATREX	4	SC	0.5	lb ai/a	1	pt/a	6-7"DIR	C				
6	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"DIR	C				
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	6-7"DIR	C	90 a	78 a		70 b
7	CALLISTO	4	SC	0.188	lb ai/a	6	fl oz/a	6-7"DIR	C				
7	AATREX	4	SC	1	lb ai/a	2	pt/a	6-7"DIR	C				
7	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"DIR	C				
8	DUAL II MAGNUM	7.64	EC	0.955	lb ai/a	1	pt/a	PRE	A	97 a		83 a	90 a
8	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	11-12"DIR	D				
8	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	11-12"DIR	D				
8	AATREX	4	SC	0.5	lb ai/a	1	pt/a	11-12"DIR	D				
8	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	11-12"DIR	D				
9	DUAL II MAGNUM	7.64	EC	0.955	lb ai/a	1	pt/a	PRE	A	97 a		87 a	94 a
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	11-12"DIR	D				
9	CALLISTO	4	SC	0.188	lb ai/a	6	fl oz/a	11-12"DIR	D				
9	AATREX	4	SC	1	lb ai/a	2	pt/a	11-12"DIR	D				
9	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	11-12"DIR	D				
10	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-7"SG	B	42 d	10 e		5 e
10	PEAK	57	WG	0.0267	lb ai/a	0.75	oz/a	6-7"SG	B				
10	AATREX	4	SC	1	lb ai/a	2	pt/a	6-7"SG	B				
10	AGRIDEX	100	SL	1	% v/v	1	% v/v	6-7"SG	B				
11	PEAK	57	WG	0.0178	lb ai/a	0.5	oz/a	6-7"SG	B	40 d	13 e		7 de
11	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	6-7"SG	B				
11	AATREX	4	SC	0.5	lb ai/a	1	pt/a	6-7"SG	B				
11	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"SG	B				
12	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-7"SG	B	0 e	0 f		2 e
12	HUSKIE	2.06	EC	0.177	lb ai/a	11	fl oz/a	6-7"SG	B				
LSD (P=.05)										7.1	7.9	7.2	14.9
Replicate F										1.983	0.834	81.000	0.649
Replicate Prob(F)										0.1615	0.4502	0.0122	0.5324
Treatment F										181.499	119.815	4.000	50.807
Treatment Prob(F)										0.0001	0.0001	0.1835	0.0001

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

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Pest Code										07-23-09	08-13-09	08-13-09	08-27-09
Crop Code										Control	Control	Control	Control
Rating Date										Percent	Percent	Percent	Percent
Rating Data Type										7 DA-B+C	28 DA-B+C	28 DA-D	42 DA-B+C
Rating Unit										0 DA-D			35 DA-D
Rating Timing													
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NONTREATED									0 c	0 b		0 c
2	LUMAX	3.95	SE	1.48	lb ai/a	1.5	qt/a	6-7"SG	B	99 a	99 a		99 a
2	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"SG	B				
3	PEAK	57	WG	0.0178	lb ai/a	0.5	oz/a	6-7"SG	B	99 a	99 a		99 a
3	LUMAX	3.95	SE	1.48	lb ai/a	1.5	qt/a	6-7"SG	B				
3	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"SG	B				
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-7"DIR	C	99 a	99 a		99 a
4	LUMAX	3.95	SE	1.48	lb ai/a	1.5	qt/a	6-7"DIR	C				
4	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"DIR	C				
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-7"DIR	C	99 a	99 a		99 a
5	LUMAX	3.95	SE	2.47	lb ai/a	2.5	qt/a	6-7"DIR	C				
5	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"DIR	C				
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-7"DIR	C	99 a	99 a		99 a
6	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	6-7"DIR	C				
6	AATREX	4	SC	0.5	lb ai/a	1	pt/a	6-7"DIR	C				
6	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"DIR	C				
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	6-7"DIR	C	99 a	99 a		99 a
7	CALLISTO	4	SC	0.188	lb ai/a	6	fl oz/a	6-7"DIR	C				
7	AATREX	4	SC	1	lb ai/a	2	pt/a	6-7"DIR	C				
7	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"DIR	C				
8	DUAL II MAGNUM	7.64	EC	0.955	lb ai/a	1	pt/a	PRE	A	33 b		96 a	98 b
8	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	11-12"DIR	D				
8	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	11-12"DIR	D				
8	AATREX	4	SC	0.5	lb ai/a	1	pt/a	11-12"DIR	D				
8	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	11-12"DIR	D				
9	DUAL II MAGNUM	7.64	EC	0.955	lb ai/a	1	pt/a	PRE	A	30 b		99 a	99 a
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	11-12"DIR	D				
9	CALLISTO	4	SC	0.188	lb ai/a	6	fl oz/a	11-12"DIR	D				
9	AATREX	4	SC	1	lb ai/a	2	pt/a	11-12"DIR	D				
9	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	11-12"DIR	D				
10	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-7"SG	B	99 a	99 a		99 a
10	PEAK	57	WG	0.0267	lb ai/a	0.75	oz/a	6-7"SG	B				
10	AATREX	4	SC	1	lb ai/a	2	pt/a	6-7"SG	B				
10	AGRIDEX	100	SL	1	% v/v	1	% v/v	6-7"SG	B				
11	PEAK	57	WG	0.0178	lb ai/a	0.5	oz/a	6-7"SG	B	99 a	99 a		99 a
11	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	6-7"SG	B				
11	AATREX	4	SC	0.5	lb ai/a	1	pt/a	6-7"SG	B				
11	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"SG	B				
12	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-7"SG	B	96 a	99 a		99 a
12	HUSKIE	2.06	EC	0.177	lb ai/a	11	fl oz/a	6-7"SG	B				
LSD (P=.05)										8.9	0.0	12.9	1.1
Replicate F										2.018	0.000	1.000	1.000
Replicate Prob(F)										0.1568	1.0000	0.5000	0.3840
Treatment F										140.067	0.000	1.000	5500.563
Treatment Prob(F)										0.0001	1.0000	0.4226	0.0001

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

Callisto and Lumax in Sorghum.

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Location: Belleville Res. Center

										AMBEL	AMBEL	AMBEL	AMBEL
Pest Code										07-23-09	08-13-09	08-13-09	08-27-09
Crop Code										Control	Control	Control	Control
Rating Date										Percent	Percent	Percent	Percent
Rating Data Type										7 DA-B+C	28 DA-B+C	28 DA-D	42 DA-B+C
Rating Unit										0 DA-D			35 DA-D
Rating Timing													
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NONTREATED									0 d	0 b		0 c
2	LUMAX	3.95	SE	1.48	lb ai/a	1.5	qt/a	6-7"SG	B	99 a	99 a		99 a
2	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"SG	B				
3	PEAK	57	WG	0.0178	lb ai/a	0.5	oz/a	6-7"SG	B	99 a	99 a		99 a
3	LUMAX	3.95	SE	1.48	lb ai/a	1.5	qt/a	6-7"SG	B				
3	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"SG	B				
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-7"DIR	C	99 a	99 a		99 a
4	LUMAX	3.95	SE	1.48	lb ai/a	1.5	qt/a	6-7"DIR	C				
4	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"DIR	C				
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-7"DIR	C	99 a	99 a		99 a
5	LUMAX	3.95	SE	2.47	lb ai/a	2.5	qt/a	6-7"DIR	C				
5	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"DIR	C				
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-7"DIR	C	99 a	99 a		99 a
6	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	6-7"DIR	C				
6	AATREX	4	SC	0.5	lb ai/a	1	pt/a	6-7"DIR	C				
6	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"DIR	C				
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	6-7"DIR	C	99 a	99 a		99 a
7	CALLISTO	4	SC	0.188	lb ai/a	6	fl oz/a	6-7"DIR	C				
7	AATREX	4	SC	1	lb ai/a	2	pt/a	6-7"DIR	C				
7	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"DIR	C				
8	DUAL II MAGNUM	7.64	EC	0.955	lb ai/a	1	pt/a	PRE	A	50 c		98 a	95 b
8	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	11-12"DIR	D				
8	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	11-12"DIR	D				
8	AATREX	4	SC	0.5	lb ai/a	1	pt/a	11-12"DIR	D				
8	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	11-12"DIR	D				
9	DUAL II MAGNUM	7.64	EC	0.955	lb ai/a	1	pt/a	PRE	A	57 b		99 a	99 a
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	11-12"DIR	D				
9	CALLISTO	4	SC	0.188	lb ai/a	6	fl oz/a	11-12"DIR	D				
9	AATREX	4	SC	1	lb ai/a	2	pt/a	11-12"DIR	D				
9	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	11-12"DIR	D				
10	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-7"SG	B	99 a	99 a		99 a
10	PEAK	57	WG	0.0267	lb ai/a	0.75	oz/a	6-7"SG	B				
10	AATREX	4	SC	1	lb ai/a	2	pt/a	6-7"SG	B				
10	AGRIDEX	100	SL	1	% v/v	1	% v/v	6-7"SG	B				
11	PEAK	57	WG	0.0178	lb ai/a	0.5	oz/a	6-7"SG	B	99 a	99 a		99 a
11	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	6-7"SG	B				
11	AATREX	4	SC	0.5	lb ai/a	1	pt/a	6-7"SG	B				
11	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"SG	B				
12	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-7"SG	B	99 a	99 a		99 a
12	HUSKIE	2.06	EC	0.177	lb ai/a	11	fl oz/a	6-7"SG	B				
LSD (P=.05)										2.9	0.0	5.7	2.2
Replicate F										0.955	0.000	1.000	1.000
Replicate Prob(F)										0.4011	1.0000	0.5000	0.3840
Treatment F										1028.586	0.000	1.000	1437.312
Treatment Prob(F)										0.0001	1.0000	0.4226	0.0001

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

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Pest Code										07-23-09	08-13-09	08-13-09	08-27-09
Crop Code										Control	Control	Control	Control
Rating Date										Percent	Percent	Percent	Percent
Rating Data Type										7 DA-B+C	28 DA-B+C	28 DA-B+C	42 DA-B+C
Rating Unit										0 DA-D		28 DA-D	35 DA-D
Rating Timing													
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NONTREATED									0 c	0 b		0 c
2	LUMAX	3.95	SE	1.48	lb ai/a	1.5	qt/a	6-7"SG	B	99 a	99 a		99 a
2	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"SG	B				
3	PEAK	57	WG	0.0178	lb ai/a	0.5	oz/a	6-7"SG	B	99 a	99 a		99 a
3	LUMAX	3.95	SE	1.48	lb ai/a	1.5	qt/a	6-7"SG	B				
3	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"SG	B				
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-7"DIR	C	99 a	99 a		99 a
4	LUMAX	3.95	SE	1.48	lb ai/a	1.5	qt/a	6-7"DIR	C				
4	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"DIR	C				
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-7"DIR	C	99 a	99 a		99 a
5	LUMAX	3.95	SE	2.47	lb ai/a	2.5	qt/a	6-7"DIR	C				
5	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"DIR	C				
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-7"DIR	C	99 a	99 a		99 a
6	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	6-7"DIR	C				
6	AATREX	4	SC	0.5	lb ai/a	1	pt/a	6-7"DIR	C				
6	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"DIR	C				
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	6-7"DIR	C	99 a	99 a		99 a
7	CALLISTO	4	SC	0.188	lb ai/a	6	fl oz/a	6-7"DIR	C				
7	AATREX	4	SC	1	lb ai/a	2	pt/a	6-7"DIR	C				
7	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"DIR	C				
8	DUAL II MAGNUM	7.64	EC	0.955	lb ai/a	1	pt/a	PRE	A	80 b		99 a	99 b
8	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	11-12"DIR	D				
8	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	11-12"DIR	D				
8	AATREX	4	SC	0.5	lb ai/a	1	pt/a	11-12"DIR	D				
8	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	11-12"DIR	D				
9	DUAL II MAGNUM	7.64	EC	0.955	lb ai/a	1	pt/a	PRE	A	86 b		98 a	99 a
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	11-12"DIR	D				
9	CALLISTO	4	SC	0.188	lb ai/a	6	fl oz/a	11-12"DIR	D				
9	AATREX	4	SC	1	lb ai/a	2	pt/a	11-12"DIR	D				
9	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	11-12"DIR	D				
10	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-7"SG	B	99 a	99 a		99 a
10	PEAK	57	WG	0.0267	lb ai/a	0.75	oz/a	6-7"SG	B				
10	AATREX	4	SC	1	lb ai/a	2	pt/a	6-7"SG	B				
10	AGRIDEX	100	SL	1	% v/v	1	% v/v	6-7"SG	B				
11	PEAK	57	WG	0.0178	lb ai/a	0.5	oz/a	6-7"SG	B	99 a	99 a		99 a
11	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	6-7"SG	B				
11	AATREX	4	SC	0.5	lb ai/a	1	pt/a	6-7"SG	B				
11	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"SG	B				
12	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-7"SG	B	85 b	99 a		99 a
12	HUSKIE	2.06	EC	0.177	lb ai/a	11	fl oz/a	6-7"SG	B				
LSD (P=.05)										11.3	0.0	5.7	0.3
Replicate F										0.989	0.000	1.000	1.000
Replicate Prob(F)										0.3887	1.0000	0.5000	0.3840
Treatment F										54.207	0.000	1.000	88156.009
Treatment Prob(F)										0.0001	1.0000	0.4226	0.0001

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

Callisto and Lumax in Sorghum.

Trial ID: 09-5A

Location: Belleville Res. Center

										IPOHE	IPOHE	IPOHE	IPOHE
Pest Code										07-23-09	08-13-09	08-13-09	08-27-09
Crop Code										Control	Control	Control	Control
Rating Date										Percent	Percent	Percent	Percent
Rating Data Type										7 DA-B+C	28 DA-B+C	42 DA-B+C	42 DA-B+C
Rating Unit										0 DA-D		28 DA-D	35 DA-D
Rating Timing													
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NONTREATED									0 d	0 b		0 d
2	LUMAX	3.95	SE	1.48	lb ai/a	1.5	qt/a	6-7"SG	B	98 a	99 a		99 a
2	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"SG	B				
3	PEAK	57	WG	0.0178	lb ai/a	0.5	oz/a	6-7"SG	B	98 a	99 a		99 a
3	LUMAX	3.95	SE	1.48	lb ai/a	1.5	qt/a	6-7"SG	B				
3	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"SG	B				
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-7"DIR	C	97 a	99 a		99 a
4	LUMAX	3.95	SE	1.48	lb ai/a	1.5	qt/a	6-7"DIR	C				
4	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"DIR	C				
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-7"DIR	C	98 a	99 a		99 a
5	LUMAX	3.95	SE	2.47	lb ai/a	2.5	qt/a	6-7"DIR	C				
5	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"DIR	C				
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-7"DIR	C	98 a	99 a		99 a
6	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	6-7"DIR	C				
6	AATREX	4	SC	0.5	lb ai/a	1	pt/a	6-7"DIR	C				
6	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"DIR	C				
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	6-7"DIR	C	99 a	99 a		99 a
7	CALLISTO	4	SC	0.188	lb ai/a	6	fl oz/a	6-7"DIR	C				
7	AATREX	4	SC	1	lb ai/a	2	pt/a	6-7"DIR	C				
7	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"DIR	C				
8	DUAL II MAGNUM	7.64	EC	0.955	lb ai/a	1	pt/a	PRE	A	43 b		67 a	70 c
8	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	11-12"DIR	D				
8	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	11-12"DIR	D				
8	AATREX	4	SC	0.5	lb ai/a	1	pt/a	11-12"DIR	D				
8	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	11-12"DIR	D				
9	DUAL II MAGNUM	7.64	EC	0.955	lb ai/a	1	pt/a	PRE	A	23 c		77 a	82 b
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	11-12"DIR	D				
9	CALLISTO	4	SC	0.188	lb ai/a	6	fl oz/a	11-12"DIR	D				
9	AATREX	4	SC	1	lb ai/a	2	pt/a	11-12"DIR	D				
9	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	11-12"DIR	D				
10	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-7"SG	B	95 a	99 a		99 a
10	PEAK	57	WG	0.0267	lb ai/a	0.75	oz/a	6-7"SG	B				
10	AATREX	4	SC	1	lb ai/a	2	pt/a	6-7"SG	B				
10	AGRIDEX	100	SL	1	% v/v	1	% v/v	6-7"SG	B				
11	PEAK	57	WG	0.0178	lb ai/a	0.5	oz/a	6-7"SG	B	99 a	99 a		99 a
11	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	6-7"SG	B				
11	AATREX	4	SC	0.5	lb ai/a	1	pt/a	6-7"SG	B				
11	INDUCE	100	SL	0.25	% v/v	0.25	% v/v	6-7"SG	B				
12	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-7"SG	B	98 a	99 a		99 a
12	HUSKIE	2.06	EC	0.177	lb ai/a	11	fl oz/a	6-7"SG	B				
LSD (P=.05)										19.4	0.0	24.8	10.1
Replicate F										1.901	0.000	12.333	1.759
Replicate Prob(F)										0.1731	1.0000	0.0750	0.1955
Treatment F										28.532	0.000	3.000	69.714
Treatment Prob(F)										0.0001	1.0000	0.2254	0.0001

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

Trial Comments

1. Protocol: Syngenta (MS005A4).
2. Ratings: CI at 7, 14 + 21 da B/C and D; WC at 28 + 42 da B/C and 28 da D. WC prior to D.
3. Yield.
4. Special spraying instructions: Applications C + D require 3 nozzle directed spray boom and XR 8002 Even (EVS) tips. Try to treat the bottom leaves of the sorghum avoiding only the whorl.
5. Harvested 11-13-09, 2 (30) inch rows by 23 ft.