

Disclaimer:

This document is based on the results from an individual trial and may contain experimental use patterns that are currently off-label. **This document does not provide any interpretation and should not be taken as an endorsement of any unregistered use pattern.**

Professional advice should be sought for specific recommendations to ensure access to the most up to date information and knowledge.

Any product referred to in this document must be used strictly as directed, and in accordance with all label or permit instructions. Always consult the label prior to use.

Alternative Sorghum Herbicides 2014-15

Trial ID: **LB1425** Location: **St Ruth** Trial Year: **2014**
 Protocol ID: **NGA1423** Investigator: **Linda Bailey**

Planting Date:	17/12/2014		
Planting Equipment:	Commercial Double Disc (stubble excel warrior)		
Row Spacing:	100cm		
Planting Density:	65,000 plants/ha		
Application Code:	A	B	C
Application Date:	16/12/2014	20/12/2014	08/01/2015
Target Stage:	Pre-plant	PSPE	Sorghum 6 leaf

Scientific Pest Name:						<i>Echinochloa colona</i> Awnless Barnyard Grass	<i>Portulaca Oleracea</i> Pigweed	<i>Tribulus micrococcus</i> Yellowvine
Pest Name:								
Crop Name:					Sorghum MR Buster			
Rating Date:					05/01/2015	05/01/2015	05/01/2015	05/01/2015
Rating Type:					EMERGE	COUNT	COUNT	COUNT
Rating Unit:					/m ²	/m ²	/m ²	/m ²
Crop Stage Majority:					15			
Pest Stage Majority:						30	51	59
Days After First/Last Application:					20 16	20 16	20 16	20 16
ARM Action Codes:					AL		AA	AA
Trt No.	Treatment Name	Product Rate	Appln. Code					
1	Untreated	-	-		7.4	2.4-	1.3-	0.06cd
2	Dual Gold	2000ml/ha	A		7.5	2.8-	0.5-	0.08bcd
3	Dual Gold Gp K D	1000ml/ha 1000ml/ha	A C		8.4	1.1-	0.4-	0.49ab
4	Dual Gold Gp G V	2000ml/ha 210g/ha	A A		6.8	1.2-	0.0-	0.00d
5	Gp K O	1000ml/ha	A		8.0	1.6-	0.4-	0.00d
6	Gp K O	1500ml/ha	A		6.9	1.4-	1.3-	0.00d
7	Gp K O Gp G S	1000ml/ha 115g/ha	A A		7.4	0.8-	0.0-	0.00d
8	Dual Gold	2000ml/ha	B		7.6	3.3-	1.2-	0.08bcd
9	Gp G V	210g/ha	B		6.7	2.1-	1.4-	0.58a
10	Dual Gold Gp G V	1500ml/ha 210g/ha	B B		7.1	2.8-	0.3-	0.01cd
11	Dual Gold Gp G V	2000ml/ha 210g/ha	B B		6.9	2.3-	0.2-	0.01cd
12	Gp D SX	1650ml/ha	C		7.6	1.9-	0.5-	0.04cd
13	Gp D SX	3300ml/ha	C		7.3	2.2-	0.4-	0.20abc
14	Starane Advanced Nu-trazine 900 DF	450ml/ha 2500g/ha	C C		6.8	1.9-	0.7-	0.04cd
LSD P=					nsd	nsd	nsd	2.42t
Treatment Prob.(F)					0.14	0.08	0.12	0.01

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

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

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

nsd=no significant difference

Alternative Sorghum Herbicides 2014-15

Trial ID: LB1425
Protocol ID: NGA1423

Location: St Ruth
Investigator: Linda Bailey

Trial Year: 2014

Scientific Pest Name:				<i>Echinochloa colona</i> Awnless Barnyard Grass	<i>Tribulus micrococcus</i> Yellowvine	All Broadleaf Weeds
Pest Name:						
Rating Date:				04/02/2015	04/02/2015	05/01/2015
Rating Type:				COUNT	COUNT	COUNT
Rating Unit:				/m ²	/m ²	/m ²
Pest Stage Majority:				79	61	51
Days After First/Last Application:				50 27	50 27	20 16
ARM Action Codes:				AL	AA	AA
Trt No.	Treatment	Product Rate	Appln. Code			
1	Untreated	-	-	3.6a	0.2bcd	1.4ab
2	Dual Gold Herbicide	2000ml/ha	A	2.2bc	0.1cd	0.8ab
3	Dual Gold Herbicide Gp K D	1000ml/ha 1000ml/ha	A C	1.8cd	1.0a	1.1ab
4	Dual Gold Herbicide Gp G V	2000ml/ha 210g/ha	A A	1.3d	0.0d	0.0c
5	Gp K O	1000ml/ha	A	1.9cd	0.0d	0.4bc
6	Gp K O	1500ml/ha	A	2.0bcd	0.0d	1.3ab
7	Gp K O Gp G S	1000ml/ha 115g/ha	A A	1.2d	0.0d	0.0c
8	Dual Gold Herbicide	2000ml/ha	B	3.0ab	0.1cd	1.4ab
9	Gp G V	210g/ha	B	1.9cd	0.6ab	2.1a
10	Dual Gold Herbicide Gp G V	1500ml/ha 210g/ha	B B	2.2bc	0.0d	0.3bc
11	Dual Gold Herbicide Gp G V	2000ml/ha 210g/ha	B B	2.0bcd	0.0cd	0.3bc
12	Gp D SX	1650ml/ha	C	2.5abc	0.1bcd	0.5b
13	Gp D SX	3300ml/ha	C	2.4bc	0.2bc	0.7ab
14	Starane Advanced Herbicide Nu-trazine 900 DF	450ml/ha 2500g/ha	C C	2.3bc	0.0d	1.1ab
LSD P=				0.13t	2.29t	3.85t
Treatment Prob.(F)				0.01	0.00	0.00

Rating Type

EMERGE = emergence

COUNT = count

Rating Unit

/m² = per square meter

Crop Stage Majority

15 = 5 leaves unfolded

Pest Stage Majority

30 = Beginning of stem elongation; G_Beginning of shooting

51 = Inflorescence or flower buds visible; G_Beginning of heading

59 = First flower petals visible (in petalled forms; G_Inflorescence fully emerged (end of heading)

79 = Nearly all fruits have reached final size normal for the species and location

61 = Beginning of flowering: 10% of flowers open

Plant-Evaluation Interval

19 DP-1 = 1 SORVU 17/12/14

49 DP-1 = 1 SORVU 17/12/14

ARM Action Codes

AL = Automatic log transformation of X+1

AA = Automatic arcsine square root % transformation

Application Description			
	A	B	C
Application Date:	16/12/14	20/12/14	8/1/15
Application Start Time:	9:50 AM	10:30 AM	10:15 AM
Application Stop Time:	10:30 AM	10:55 AM	10:35 AM
Application Method:	SPRAY		
Application Timing:	Pre-plant	PSPE	Sorghum 6 leaf
Application Placement:	SOIL	SOIL	FOLIAR
Applied By:	L Bailey		
Air Temperature, Unit:	30 C	31 C	29 C
% Relative Humidity:	43	47	43
Wind Velocity, Unit:	10 KPH	3 KPH	7 KPH
Wind Direction:	W	NE	E
Dew Presence (Y/N):	N no		
Soil Moisture:	DRY		
% Cloud Cover:	0	30	10

Application Equipment			
	A	B	C
Application Equipment:	Quadbike		
Equipment Type:	SPRAYE		
Operation Pressure, Unit:	300 kPa		
Nozzle Type:	AIXR		
Nozzle Size:	110015		
Nozzle Spacing, Unit:	50 cm		
Spray Volume, Unit:	70 L/ha		