

Project: N for protein - Timing & Method

Trial: LB1301

District: Pilton

Planting Date: 9/07/2013

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.

Application Timing	Date	Crop stage
T1	9/07/2013	Planting
T2	10/09/2013	GS30
T3	24/09/2013	GS39
T4	4/10/2013	GS57
T5	17/10/2013	GS61
T6	31/10/2013	GS85

Trt No.	Variety	Product	Units of N applied	Method of Application	Timing of Application	30/07/2013 Establishment Plants/m ²	15/11/13 (129DAP)	
							kg/ha	% of Untreated
1	EGA Gregory	Untreated	-	-	-	83.2	3175	-
2	EGA Gregory	Urea	40	IBS	T1	87.8	3024	95
3	EGA Gregory	Urea	20 + 20	IBS & Spread	T1 & T2	87.3	3018	95
4	EGA Gregory	Urea	40	Spread	T2	81.3	3139	99
5	EGA Gregory	Urea	40	Spread	T3	85.4	3369	106
6	EGA Gregory	Liquid Urea	40	StreamJet	T3	89.2	3444	108
7	EGA Gregory	Liquid Urea	40	Foliar	T3	85.6	3392	107
8	EGA Gregory	Urea	40	Spread	T4	87.5	3048	96
9	EGA Gregory	Liquid Urea	40	StreamJet	T4	88.7	3212	101
10	EGA Gregory	Liquid Urea	40	Foliar	T4	84.2	3134	99
11	EGA Gregory	Urea	40	Spread	T5	81.1	3409	107
12	EGA Gregory	Liquid Urea	40	StreamJet	T5	92.5	3056	96
13	EGA Gregory	Liquid Urea	40	Foliar	T5	86.8	3118	98
14	EGA Gregory	Urea	40	Spread	T6	97.2	3195	101
15	EGA Gregory	Liquid Urea	40	StreamJet	T6	78.5	3364	106
16	EGA Gregory	Liquid Urea	40	Foliar	T6	84.9	2985	94
17	Suntop	Untreated	-	-	-	83.9	3397	-
18	Sunvale	Untreated	-	-	-	83.7	3128	-
19	Spitfire	Untreated	-	-	-	86.1	3203	-
20	Merlin	Untreated	-	-	-	90.6	3548	-
						P =	0.28	0.99
						LSD =	nsd	nsd
						CV =		16.8%

Trt No.	Variety	Product	Units of N applied	Method of application	Timing of application	Grain Quality				
						Protein %	Moisture %	Test Weight kg/hL	Screenings %	N Recovery kg N/ha
1	EGA Gregory	Untreated	-	-	-	12.5 cd	12.6	75.8 cd	8.9 a	70
2	EGA Gregory	Urea	40	IBS	T1	12.8 cd	12.6	76.3 cd	8.9 a	67
3	EGA Gregory	Urea	20 + 20	IBS & Spread	T1 & T2	12.6 cd	12.6	75.8 cd	8.7 a	67
4	EGA Gregory	Urea	40	Spread	T2	12.7 cd	12.8	75.8 cd	9.5 a	69
5	EGA Gregory	Urea	40	Spread	T3	12.2 d	12.8	76.7 cd	7.2 abc	72
6	EGA Gregory	Liquid Urea	40	StreamJet	T3	12.4 d	12.8	76.0 cd	7.7 ab	75
7	EGA Gregory	Liquid Urea	40	Foliar	T3	12.5 cd	12.7	76.4 cd	7.6 abc	74
8	EGA Gregory	Urea	40	Spread	T4	12.8 cd	12.8	76.2 cd	8.9 a	68
9	EGA Gregory	Liquid Urea	40	StreamJet	T4	12.6 cd	12.8	76.3 cd	7.5 abc	71
10	EGA Gregory	Liquid Urea	40	Foliar	T4	13.1 cd	12.7	76.2 cd	6.1 bcd	72
11	EGA Gregory	Urea	40	Spread	T5	12.3 d	12.8	77.3 bc	7.5 abc	73
12	EGA Gregory	Liquid Urea	40	StreamJet	T5	12.8 cd	12.6	76.0 cd	8.7 a	69
13	EGA Gregory	Liquid Urea	40	Foliar	T5	12.6 cd	12.6	76.2 cd	8.0 ab	69
14	EGA Gregory	Urea	40	Spread	T6	12.7 cd	12.6	76.6 cd	8.1 ab	71
15	EGA Gregory	Liquid Urea	40	StreamJet	T6	12.4 d	12.7	76.4 cd	7.5 abc	73
16	EGA Gregory	Liquid Urea	40	Foliar	T6	12.9 cd	12.8	75.5 d	9.1 a	67
17	Suntop	Untreated	-	-	-	12.7 cd	12.7	79.8 a	4.4 d	75
18	Sunvale	Untreated	-	-	-	13.5 bc	12.7	78.8 ab	6.1 bcd	74
19	Spitfire	Untreated	-	-	-	14.7 a	12.7	79.4 a	5.2 cd	82
20	Merlin	Untreated	-	-	-	14.2 ab	12.7	80.2 a	4.6 d	89
P =						0.00	0.91	0.00	0.00	0.34
LSD =						1.0	nsd	1.5	2.4	nsd

Factorial Analysis (Treatments 5 - 16)	15/11/13 (129DAP)	
	Yield	
	kg/ha	% of Untreated
Method of Application		
Foliar	3157	99
Spread	3255	103
StreamJet	3269	103
P =	0.79	
LSD =	nsd	
Timing of Application		
T3	3402	107
T4	3131	99
T5	3194	101
T6	3181	100
P =	0.57	
LSD =	nsd	
Method x Timing Interaction		
P =	0.91	
LSD =	nsd	

Factorial Analysis (Treatments 5 - 16)	Grain Quality				
	Protein %	Moisture %	Test Weight kg/hL	Screenings %	N Recovery kg N/ha
Method of Application					
Foliar	12.8	12.7	76.1	7.7	71
Spread	12.5	12.7	76.7	7.9	71
StreamJet	12.5	12.7	76.2	7.8	72
P =	0.47	0.67	0.23	0.94	0.90
LSD =	nsd	nsd	nsd	nsd	nsd
Timing of Application					
T3	12.4	12.7	76.4	7.5	74
T4	12.8	12.7	76.2	7.5	70
T5	12.6	12.7	76.5	8.0	70
T6	12.6	12.7	76.2	8.2	70
P =	0.42	0.66	0.88	0.66	0.72
LSD =	nsd	nsd	nsd	nsd	nsd
Method x Timing interaction					
P =	0.86	0.43	0.76	0.31	0.93
LSD =	nsd	nsd	nsd	nsd	nsd