

Project: N for protein - Timing & Method

Trial: LB1303

District: Brookstead

Application Dates:

Application Timing	Date	Crop stage
T1	19/06/2013	Planting
T2	23/08/2013	GS30
T3	9/09/2013	GS47
T4	23/09/2013	GS61
T5	8/10/2013	GS73
T6	22/10/2013	GS82

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.

Trt No.	Variety	Product	Units of N applied	Method of Application	Timing of Application	16/07/2013 Establishment Plants/m ²	07/11/13 (141DAP) Yield	
							kg/ha	% of Untreated
1	Suntop	Untreated	-	-	-	89	5145	-
2	Suntop	Urea	40	IBS	T1	90	5103	99
3	Suntop	Urea	20 + 20	IBS & Spread	T1 & T2	86	5188	101
4	Suntop	Urea	40	Spread	T2	93	5656	110
5	Suntop	Urea	40	Spread	T3	91	5013	97
6	Suntop	Liquid Urea	40	StreamJet	T3	91	5190	101
7	Suntop	Liquid Urea	40	Foliar	T3	85	5343	104
8	Suntop	Urea	40	Spread	T4	87	5120	100
9	Suntop	Liquid Urea	40	StreamJet	T4	82	5150	100
10	Suntop	Liquid Urea	40	Foliar	T4	83	5163	100
11	Suntop	Urea	40	Spread	T5	88	5245	102
12	Suntop	Liquid Urea	40	StreamJet	T5	90	4820	94
13	Suntop	Liquid Urea	40	Foliar	T5	88	5182	101
14	Suntop	Urea	40	Spread	T6	90	5533	108
15	Suntop	Liquid Urea	40	StreamJet	T6	93	5385	105
16	Suntop	Liquid Urea	40	Foliar	T6	88	5080	99
17	EGA Gregory	Untreated	-	-	-	82	4781	-
18	Sunvale	Untreated	-	-	-	92	5018	-
19	Spitfire	Untreated	-	-	-	84	4985	-
20	Merlin	Untreated	-	-	-	86	4985	-
						P =	0.28	0.39
						LSD =	nsd	nsd
						CV =		7.8%

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	Suntop	Untreated	-	-	-	13.7 cde	10.4 bc	80.0	6.3 ab	124 de
2	Suntop	Urea	40	IBS	T1	13.8 cde	10.4 bc	79.9	7.4 a	123 de
3	Suntop	Urea	20 + 20	IBS & Spread	T1 & T2	13.9 cde	10.4 bc	81.3	4.4 bc	126 cde
4	Suntop	Urea	40	Spread	T2	13.6 de	10.4 bc	80.8	3.7 cd	135 abc
5	Suntop	Urea	40	Spread	T3	14.0 cde	10.4 c	81.2	5.0 abc	123 de
6	Suntop	Liquid Urea	40	StreamJet	T3	13.6 cde	10.4 bc	80.5	4.3 bc	124 de
7	Suntop	Liquid Urea	40	Foliar	T3	13.7 cde	10.4 bc	80.7	5.1 abc	129 abcde
8	Suntop	Urea	40	Spread	T4	14.1 cde	10.4 bc	81.3	4.7 bc	127 cde
9	Suntop	Liquid Urea	40	StreamJet	T4	14.0 cde	10.4 c	81.1	4.3 bc	127 cde
10	Suntop	Liquid Urea	40	Foliar	T4	14.1 cd	10.5 b	80.7	4.0 bc	128 bcde
11	Suntop	Urea	40	Spread	T5	13.6 de	10.3 c	81.5	3.7 cd	125 cde
12	Suntop	Liquid Urea	40	StreamJet	T5	14.1 cd	10.4 c	81.2	4.2 bc	119 e
13	Suntop	Liquid Urea	40	Foliar	T5	14.2 c	10.4 c	80.7	5.6 abc	129 abcde
14	Suntop	Urea	40	Spread	T6	13.5 e	10.4 c	81.5	4.6 bc	131 abcd
15	Suntop	Liquid Urea	40	StreamJet	T6	13.5 e	10.4 bc	81.3	4.5 bc	127 cde
16	Suntop	Liquid Urea	40	Foliar	T6	14.0 cde	10.4 bc	81.3	4.7 bc	125 cde
17	EGA Gregory	Untreated	-	-	-	14.2 c	10.4 c	80.1	6.1 abc	119 e
18	Sunvale	Untreated	-	-	-	14.9 b	10.6 a	81.2	4.9 abc	131 abcd
19	Spitfire	Untreated	-	-	-	15.8 a	10.4 bc	80.7	3.6 cd	138 ab
20	Merlin	Untreated	-	-	-	15.9 a	10.3 c	80.8	1.2 d	139 a
P =						<0.01	0.01	0.47	0.03	0.02
LSD =						0.6	0.1	nsd	2.6	10

Factorial Analysis (Treatments 5 - 16)	07/11/13 (141DAP)	
	Yield	
	kg/ha	% of Untreated
Method of application		
Foliar	5192	101
Spread	5228	102
StreamJet	5136	100
P =	0.80	
LSD =	nsd	
Timing of Application		
T3	5182	101
T4	5144	100
T5	5082	99
T6	5333	104
P =	0.45	
LSD =	nsd	
Method x Timing Interaction		
P =	0.37	
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	14.0	10.4	80.8 b	4.8	128
Spread	13.8	10.4	81.4 a	4.5	126
StreamJet	13.8	10.4	81.0 ab	4.3	124
P =	0.15	0.11	0.09 (10%)	0.67	0.45
LSD =	nsd	nsd	0.4	nsd	nsd
Timing of Application					
T3	13.8 ab	10.4	80.8	4.8	125
T4	14.1 a	10.4	81.0	4.3	127
T5	13.9 a	10.3	81.1	4.5	125
T6	13.6 b	10.4	81.4	4.6	128
P =	0.02	0.24	0.27	0.93	0.71
LSD =	0.3	nsd	nsd	nsd	nsd
Method x Timing Interaction					
P =	0.09 (10%)	0.54	0.90	0.86	0.52
LSD =	0.4	nsd	nsd	nsd	nsd