Project: N for protein - Timing & Method
Trial: RN1309
District: Tullona
Planting date: 07/06/2013

Appplication timing	Date	Crop stage (EGA Gregory)
T1	7/06/2013	Planting
T2	5/08/2013	GS 30
T3	29/08/2013	GS39/41
T4	11/09/2013	GS60
T5	24/09/2013	GS 71-73
T6	3/10/2013	GS 77-83

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	2/07/2013 Establishment Plants/m^2	24/07/2013 NDVI at GS 25-26	28/10/2013 Yield kg/ha	28/10/2013 Yield % of Untreated
1	EGA Gregory	Untreated	-	-	-	66	0.72	2083	-
2	EGA Gregory	Urea	40	IBS	T1	75	0.74	2409	116
3	EGA Gregory	Urea	20 + 20	IBS & Spread	T1 & T2	68	0.72	2398	115
4	EGA Gregory	Urea	40	Spread	T2	77	0.75	2300	110
5	EGA Gregory	Urea	40	Spread	T3	68	0.73	2144	103
6	EGA Gregory	Liquid Urea	40	StreamJet	T3	68	0.74	2170	104
7	EGA Gregory	Liquid Urea	40	Foliar	T3	71	0.73	2268	109
8	EGA Gregory	Urea	40	Spread	T4	71	0.75	2127	102
9	EGA Gregory	Liquid Urea	40	StreamJet	T4	75	0.74	2188	105
10	EGA Gregory	Liquid Urea	40	Foliar	T4	71	0.73	2257	108
11	EGA Gregory	Urea	40	Spread	T5	71	0.75	2290	110
12	EGA Gregory	Liquid Urea	40	StreamJet	T5	82	0.76	2254	108
13	EGA Gregory	Liquid Urea	40	Foliar	T5	76	0.71	2398	115
14	EGA Gregory	Urea	40	Spread	T6	75	0.75	2333	112
15	EGA Gregory	Liquid Urea	40	StreamJet	T6	68	0.74	2355	113
16	EGA Gregory	Liquid Urea	40	Foliar	T6	78	0.73	2344	113
17	Suntop	Untreated	-	-	-	71	0.72	2865	-
18	Sunvale	Untreated	-	-	-	72	0.68	2387	-
19	Spitfire	Untreated	-	-	-	63	0.74	2671	-
20	Merlin	Untreated	-	-	-	72	0.76	2637	-
					P =	0.24	0.20	0.01	
					LSD =	nsd	nsd	371 to 429	
					CV =			11.2%	

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	-	-	-	14.3 def	8.7 bc	74.1	21.3	52 f
2	EGA Gregory	Urea	40	IBS	T1	14.8 bcd	8.8 bc	74.1	20.9	62 abcd
3	EGA Gregory	Urea	20 + 20	IBS & Spread	T1 & T2	14.7 cdef	8.7 bc	73.8	19.5	62 bcde
4	EGA Gregory	Urea	40	Spread	T2	14.7 cde	8.8 bc	72.9	19.7	59 cdef
5	EGA Gregory	Urea	40	Spread	T3	14.5 cdef	8.7 bc	74.5	17.2	54 def
6	EGA Gregory	Liquid Urea	40	StreamJet	T3	14.2 efg	8.8 bc	72.4	21.6	54 def
7	EGA Gregory	Liquid Urea	40	Foliar	T3	14.8 bcd	8.8 bc	73.0	20.8	59 cdef
8	EGA Gregory	Urea	40	Spread	T4	14.2 fg	8.7 bc	75.3	19.6	53 ef
9	EGA Gregory	Liquid Urea	40	StreamJet	T4	14.6 cdef	8.7 bc	73.1	20.3	56 cdef
10	EGA Gregory	Liquid Urea	40	Foliar	T4	14.6 cdef	8.6 bc	72.9	22.4	58 cdef
11	EGA Gregory	Urea	40	Spread	T5	14.3 def	8.6 bc	74.6	17.8	57 cdef
12	EGA Gregory	Liquid Urea	40	StreamJet	T5	14.5 cdef	8.7 bc	74.5	19.6	57 cdef
13	EGA Gregory	Liquid Urea	40	Foliar	T5	15.0 abc	8.8 bc	73.4	20.6	63 abcd
14	EGA Gregory	Urea	40	Spread	T6	14.4 def	8.6 c	75.1	18.9	59 cdef
15	EGA Gregory	Liquid Urea	40	StreamJet	T6	14.8 bcd	8.6 c	73.3	20.4	61 bcdef
16	EGA Gregory	Liquid Urea	40	Foliar	T6	14.5 cdef	8.7 bc	74.9	17.8	59 bcdef
17	Suntop	Untreated	-	-	-	13.7 g	9.0 a	78.1	16.7	69 ab
18	Sunvale	Untreated	-	-	-	15.5 a	8.8 bc	77.2	18.5	65 abc
19	Spitfire	Untreated	-	-	-	15.3 ab	8.8 ab	76.2	17.4	71 a
20	Merlin	Untreated	-	-	-	15.4 a	9.0 a	75.5	16.4	71 a
					P =	<0.01	<0.01	<0.01	0.36	<0.01
					LSD =	0.5 to 0.6	0.20 to 0.22	2.1 to 2.3	nsd	9.4 to 10.8

Factorial Analysis (Treatments 5 - 16)	28/10/2013						
	Yield		Protein	Moisture	Test Weight	Screenings	N Recovery
	kg/ha	% of control	%	%	kg/hL	%	kg N/ha
Method of application							
Foliar	2317	111	14.7 a	8.7	73.6 b	20.4	60
Spread	2223	107	14.3 b	8.7	74.9 a	18.4	56
StreamJet	2242	108	14.5 ab	8.7	73.3 b	20.5	57
P =	0.54		0.04	0.58	<0.01	0.11	0.20
LSD =	nsd		0.3	nsd	1.0	nsd	nsd
Timing of Application							
T3	2194 b	105	14.5	8.7	73.3	19.9	56
T4	2193 ab	105	14.4	8.7	73.8	20.8	55
T5	2312 ab	111	14.6	8.7	74.2	19.4	59
T6	2344 b	113	14.5	8.6	74.4	19.0	60
P =	0.35		0.72	0.46	0.26	0.57	0.24
LSD =	nsd		nsd	nsd	nsd	nsd	nsd
Method x Timing Interaction							
P =	1.00		0.20	0.82	0.48	0.60	0.93
LSD =	nsd		nsd	nsd	nsd	nsd	nsd