

**Project:** N for protein - Product comparison  
**Trial:** RN1310  
**District:** Tulloona

**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.**

**Variety:** EGA Gregory  
**Planting date:** 7/06/2013  
**Application date:** 11/09/2013  
**Crop stage:** GS60 (Start of flowering)

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	Product	Units of N applied (kg/ha)	Method of Application	2/07/2013	24/07/2013	27/10/2013	
				Emergence Plants/ m <sup>2</sup>	NDVI GS 25-26	Yield	
						kg/ha	% of Untreated
1	Untreated	-	-	68 b	0.73	2311	-
2	Urea	20	Spread	72 b	0.74	2658	115
3	Urea	40	Spread	66 b	0.73	2517	109
4	Ranger	20	Foliar	75 ab	0.74	2583	112
5	Ranger	40	Foliar	65 b	0.72	2941	127
6	N42	20	Foliar	76 ab	0.72	2507	108
7	N42	40	Foliar	63 b	0.72	2745	119
8	Liquid Urea with Ni & S	20	Foliar	68 b	0.73	2832	123
9	Liquid Urea with Ni & S	40	Foliar	89 a	0.74	2648	115
P =				0.04	0.93	0.58	
LSD =				14.6	nsd	nsd	
CV =						15.6	

Trt No	Product	Units of N applied (kg/ha)	Method of Application	Grain Quality			
				Protein %	Moisture %	Test Weight kg/hL	Screenings %
1	Untreated	-	-	14.0	9.0	74	19
2	Urea	20	Spread	14.1	8.9	72	19
3	Urea	40	Spread	14.2	8.9	74	19
4	Ranger	20	Foliar	14.6	9.1	74	18
5	Ranger	40	Foliar	13.9	8.8	74	19
6	N42	20	Foliar	14.6	8.9	73	20
7	N42	40	Foliar	14.3	8.9	74	19
8	Liquid Urea with Ni & S	20	Foliar	14.3	8.9	74	19
9	Liquid Urea with Ni & S	40	Foliar	14.9	9.9	74	18
P =				0.14	0.45	0.55	0.81
LSD =				nsd	nsd	nsd	nsd

Factorial Analysis (Treatments 2 - 9)	27/10/2013		Grain Quality			
	Yield		Protein	Moisture	Test Weight	Screenings
	kg/ha	% of control	%	%	kg/hL	%
<b>Rate (kg of N/ha)</b>						
20	2645	114	14.4	8.9	73	19
40	2713	117	14.3	8.9	74	18
P =	0.66		0.61	0.28	0.14	0.55
LSD =	nsd		nsd	nsd	nsd	nsd
<b>Product</b>						
Urea	2588	112	14.1	8.9	73	19
Ranger	2762	119	14.3	9.0	74	18
N42	2626	114	14.4	8.9	73	19
Ranger + Ni + S	2740	119	14.6	8.9	74	18
P =	0.82		0.35	0.76	0.35	0.44
LSD =	nsd		nsd	nsd	nsd	nsd
<b>Rate x Product</b>						
P =	0.52		0.08	0.20	0.75	0.36
LSD =	nsd		nsd	nsd	nsd	nsd