

**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.**

## N management in wheat 2014

Trial ID: AM1411      Location: Gunnedah      Trial Year: 2014  
 Protocol ID: NGA1408N      Investigator: Anthony Mitchell

Planting Date	10/06/2014		
Planting Equipment	narrow point tyne plot planter		
Row Spacing	32cm		
Planting Rate	100 pl/m <sup>2</sup>		
Application Code	A	B	C
Application Date	10/06/2014	10/06/2014	13/8/2014
Target/stage	Pre-plant/IBS	PSPE	GS 31

Crop Name: Crop Variety: Rating Date: Rating Type: Rating Unit: Crop Stage Majority: Days After First/Last Application: Plant-Evaluation Interval: ARM Action Codes:					Wheat EGA Gregory				
					24/6/2014	26/07/2014	19/10/2014	18/11/2014	PROTEIN %
Trt No.	Treatment	Product Rate	Nitrogen Rate	Appln Code	EMERGE	NDVI Ratio		YIELD	
					m <sup>2</sup>			kg/ha	
					11	15	41		
					14 14	46 46	101 37	161 97	
					14 DP-1	46 DP-1	101 DP-1	161 DP-1	
					T1				
					2	3	4	5	6
1	Untreated	-	-	-	58.8-	0.32abc	0.77h	3031a	10.9i
2	Urea	109kg/ha	50kg ai/ha	A	60.9-	0.32abc	0.84ef	2725b-e	13.7fg
3	Urea	217kg/ha	100kg ai/ha	A	61.3-	0.31bc	0.86abc	2700b-e	14.7a-e
4	Urea	435kg/ha	200kg ai/ha	A	57.8-	0.30cd	0.87a	2506f	15.5a
5	Urea	109kg/ha	50kg ai/ha	A	67.4-	0.31bc	0.86ab	2675def	15.1ab
	Urea	109kg/ha	50kg ai/ha	C					
6	Urea	217kg/ha	100kg ai/ha	B	66.6-	0.29d	0.87ab	2638ef	14.8abc
7	ESN	65kg/ha	30kg ai/ha	A	67.8-	0.32abc	0.82g	2856bc	12.8h
	Urea	43.5kg/ha	20kg ai/ha	A					
8	ESN	83kg/ha	38.2kg ai/ha	A	54.5-	0.33a	0.84ef	2769b-e	13.5gh
	Urea	55.3kg/ha	25.44kg ai/ha	A					
9	ESN	130kg/ha	60kg ai/ha	A	71.1-	0.33a	0.85cde	2794b-e	13.9efg
	Urea	87kg/ha	40kg ai/ha	A					
10	Agrocote N38	34kg/ha	15kg ai/ha	A	64.5-	0.32abc	0.83fg	2869ab	13.4gh
	Urea	76kg/ha	35kg ai/ha	A					
11	Agrocote N38	57kg/ha	25kg ai/ha	A	62.7-	0.31abc	0.85cde	2844bcd	13.9d-g
	Urea	127kg/ha	58.4kg ai/ha	A					
12	Agrocote N38	68kg/ha	30kg ai/ha	A	71.1-	0.32abc	0.86bcd	2650ef	14.0c-g
	Urea	152kg/ha	70kg ai/ha	A					
13	eNtrench	2.5l/ha	0.442kg ai/ha	A	59.0-	0.32ab	0.84ef	2750b-e	13.5gh
	Urea	109kg/ha	50kg ai/ha	A					
14	eNtrench	2.5l/ha	0.442kg ai/ha	A	70.5-	0.31abc	0.84ef	2806b-e	13.7fg
	Urea	135kg/ha	62kg ai/ha	A					
15	eNtrench	2.5l/ha	0.442kg ai/ha	A	70.9-	0.32ab	0.84def	2763b-e	14.1c-g
	Urea	217kg/ha	100kg ai/ha	A					
16	Entec	109kg/ha	50kg ai/ha	A	63.7-	0.32abc	0.82g	2863abc	13.3gh
17	Entec	194kg/ha	89.3kg ai/ha	A	58.2-	0.32abc	0.85cde	2725b-e	14.4b-f
18	Entec	217kg/ha	100kg ai/ha	A	61.7-	0.32abc	0.85cde	2694cde	14.7a-d
LSD (P=.05)					14.17	0.016	0.013	169.0	0.81
CV					15.71	3.6	1.12	4.33	4.1
Treatment Prob.(F)					0.3983	0.0128	0.0001	0.0001	0.0001

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

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

## N management in wheat 2014

Trial ID: AM1411      Location: Gunnedah      Trial Year: 2014  
 Protocol ID: NGA1408      Investigator: Anthony Mitchell

Crop Name: Crop Variety: Rating Date: Rating Type: Rating Unit: ARM Action Codes:						Wheat EGA Gregory		
						TEST WEIGHT kg/hL	SCREENINGS % w/w	N RECOVERY kg N/ha T2
Trt No.	Treatment	Product Rate	Application Rate	Growth Stage	Appln Code	7	8	9
1	Untreated	-	-	-	-	80.0a	6.6-	57.8d
2	Urea	109kg/ha	50kg ai/ha	PREPLA	A	77.3de	8.2-	65.1bc
3	Urea	217kg/ha	100kg ai/ha	PREPLA	A	76.6ef	8.2-	69.3ab
4	Urea	435kg/ha	200kg ai/ha	PREPLA	A	75.9f	7.2-	67.7abc
5	Urea	109kg/ha	50kg ai/ha	PREPLA	A	76.7ef	8.3-	70.7a
	Urea	109kg/ha	50kg ai/ha	GS31	C			
6	Urea	217kg/ha	100kg ai/ha	PSPE	B	77.2de	7.7-	68.2abc
7	ESN	65kg/ha	30kg ai/ha	PREPLA	A	78.5bc	5.8-	63.8c
	Urea	43.5kg/ha	20kg ai/ha	PREPLA	A			
8	ESN	83kg/ha	38.2kg ai/ha	PREPLA	A	78.0bcd	6.9-	65.0bc
	Urea	55.3kg/ha	25.44kg ai/ha	PREPLA	A			
9	ESN	130kg/ha	60kg ai/ha	PREPLA	A	77.3cde	7.9-	67.9abc
	Urea	87kg/ha	40kg ai/ha	PREPLA	A			
10	Agrocote N38	34kg/ha	15kg ai/ha	PREPLA	A	78.7b	6.2-	67.2abc
	Urea	76kg/ha	35kg ai/ha	PREPLA	A			
11	Agrocote N38	57kg/ha	25kg ai/ha	PREPLA	A	77.8b-e	6.1-	69.1abc
	Urea	127kg/ha	58.4kg ai/ha	PREPLA	A			
12	Agrocote N38	68kg/ha	30kg ai/ha	PREPLA	A	77.7b-e	7.9-	64.7bc
	Urea	152kg/ha	70kg ai/ha	PREPLA	A			
13	eNtrench	2.5l/ha	0.442kg ai/ha	PREPLA	A	77.3cde	7.4-	64.9bc
	Urea	109kg/ha	50kg ai/ha	PREPLA	A			
14	eNtrench	2.5l/ha	0.442kg ai/ha	PREPLA	A	77.3cde	7.8-	67.1abc
	Urea	135kg/ha	62kg ai/ha	PREPLA	A			
15	eNtrench	2.5l/ha	0.442kg ai/ha	PREPLA	A	78.0bcd	6.4-	68.1abc
	Urea	217kg/ha	100kg ai/ha	PREPLA	A			
16	Entec	109kg/ha	50kg ai/ha	PREPLA	A	78.7b	5.7-	66.4abc
17	Entec	194kg/ha	89.3kg ai/ha	PREPLA	A	76.9def	7.5-	68.6abc
18	Entec	217kg/ha	100kg ai/ha	PREPLA	A	76.9def	8.1-	69.1ab
LSD (P=.05)						1.23	2.45	5.31
CV						1.12	24.06	5.63
Treatment Prob. (F)						0.0001	0.4597	0.0076

Rating Type

EMERGE = emergence  
 NDVI = normalized difference vegetation index  
 Yield = yield

Rating Unit

m<sup>2</sup> = square meter  
 RATIO = ratio  
 Kg/ha = kilograms per hectare  
 % = percent

Crop Stage Majority

11 = First leaf unfolded  
 15 = 5 leaves unfolded  
 41 = Early boot stage: flag leaf sheath extending

Plant-Evaluation Interval

14 DP-1 = 1 TRZAS Jun-10-2014  
 46 DP-1 = 1 TRZAS Jun-10-2014  
 101 DP-1 = 1 TRZAS Jun-10-2014  
 161 DP-1 = 1 TRZAS Jun-10-2014

ARM Action Codes

T1 = [C1]/1.28  
 T2 = [5]\*([6]/100)\*.175

### Application Equipment

	A	B	C
Application Equipment:	Hand spread		
Equipment Type:	MANUAL SPREAD		