

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 2016 - Tulloona

Trial ID: **DK1602** Location: **Tullona** Trial Year: **2016**
Investigator: **Denielle Kilby**

Planting Date:	14/06/2016						
Planting Equipment:	Small Plot Planter						
Row Spacing:	32cm						
Planting Depth:	2cm						
Target Plant Population:	100 Plants /m ²						
Application Code:	A	B	C	D	E	F	G
Application Date:	14/12/2015	14/12/2015	23/02/2016	23/02/2016	14/06/2016	14/06/2016	8/08/2016
Target/Stage:	Spread & Incorpn Dec	Spread Surface Dec	Spread & Incorpn Feb	Spread Surface Feb	Spread & IBS	Spread PSPE	Spread at GS 30
Harvest Date:	15/11/2016						

Crop Name Crop Variety Assessment Date Assessment Type Assessment Unit Crop Stage Majority Plant-Evaluation Interval ARM Action Codes				Wheat Suntop				
				1/07/2016 EMERGENCE /m ² 11 17 DP1 T1	8/08/2016 NDVI RATIO 30 55 DP1 AL	10/10/2016 NDVI RATIO 65 118 DP1 ET12	12/10/2016 HEAD COUNT /m ² 65 120 DP1 T2	15/11/2016 YIELD t/ha 89 154 DP1 TY3
Trt No.	Treatment	Product Rate	Appln. Code					
1	Untreated	-	-	64.6ab	0.42abc	0.53f	208-	4.01g
2	Urea	109kg/ha	A	43.6de	0.40c	0.65e	245-	4.46b-e
3	Urea	217kg/ha	A	64.6ab	0.41bc	0.70a-d	217-	4.67ab
4	Urea	217kg/ha	B	69.9a	0.40bc	0.68cde	233-	4.61a-d
5	Urea	435kg/ha	A	55.5a-e	0.39c	0.70a-d	247-	4.58a-d
6	Urea	109kg/ha	A	61.7abc	0.43abc	0.70a-d	212-	4.70ab
	Urea	109kg/ha	G					
7	Urea	109kg/ha	C	51.8b-e	0.30de	0.67de	191-	4.03fg
8	Urea	217kg/ha	C	48.0cde	0.32de	0.67de	198-	4.31d-g
9	Urea	217kg/ha	D	60.0abc	0.33de	0.67de	198-	4.34c-f
10	Urea	435kg/ha	C	58.8a-d	0.34d	0.70a-d	221-	4.47b-e
11	Urea	109kg/ha	C	42.6e	0.29e	0.69bcd	206-	4.25efg
	Urea	109kg/ha	G					
12	Urea	109kg/ha	E	69.9a	0.43abc	0.68	234-	4.58a-d
13	Urea	217kg/ha	E	56.8a-e	0.42bc	0.70a-d	233-	4.85a
14	Urea	217kg/ha	F	58.6a-d	0.41bc	0.70a-d	236-	4.71ab
15	Urea	435kg/ha	E	58.2a-e	0.40c	0.73a	246-	4.74ab
16	Urea	109kg/ha	E	55.5a-e	0.43abc	0.72ab	231-	4.76ab
	Urea	109kg/ha	G					
17	Urea	109kg/ha	G	68.9a	0.43abc	0.68cde	223-	4.55a-e
18	Urea	217kg/ha	G	62.1abc	0.43abc	0.71abc	267-	4.62abc
19	Urea	217kg/ha	B2	59.0a-d	0.45ab	0.70a-d	244-	4.68ab
20	Urea	217kg/ha	D2	63.3abc	0.46a	0.69bcd	237-	4.62abc
LSD P=				15.76	0.014t	0.032	42.4	0.309
Treatment Prob.(F)=				0.0280	0.0001	0.0001	nsd	0.0001
CV=								4.8

NB: Application codes: B2 and D2 (Trts 19 and 20) had urea spread on the soil surface but without prior soil disturbance

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

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

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

nsd = No significant difference

N Management in Wheat 2016 - Tulloona

Trial ID: DK1602

Location: Tulloona

Trial Year: 2016

Crop Name Crop Variety Assessment Date Assessment Type Assessment Unit ARM Action Codes				Wheat Suntop			
				9/01/2017 PROTEIN %	9/01/2017 TEST WEIGHT kg/hL ER2	9/01/2017 SCREENING %	9/01/2017 MOISTURE %
Trt No.	Treatment	Product Rate	Appln. Code				
1	Untreated	-	-	10.2h	82.9-	5.2-	11.8-
2	Urea	109kg/ha	A	11.2f	83.8-	5.7-	11.3-
3	Urea	217kg/ha	A	12.0abc	82.8-	4.9-	11.4-
4	Urea	217kg/ha	B	11.8a-e	83.7-	5.0-	11.5-
5	Urea	435kg/ha	A	12.0ab	81.7-	5.2-	11.6-
6	Urea	109kg/ha	A	11.8a-e	82.3-	5.3-	11.3-
	Urea	109kg/ha	G				
7	Urea	109kg/ha	C	11.2fg	82.6-	5.7-	11.3-
8	Urea	217kg/ha	C	11.6b-f	83.1-	5.4-	11.3-
9	Urea	217kg/ha	D	11.5c-f	83.7-	5.2-	11.5-
10	Urea	435kg/ha	C	11.8a-e	82.3-	5.6-	11.4-
11	Urea	109kg/ha	C	11.9a-d	80.6-	5.7-	11.4-
	Urea	109kg/ha	G				
12	Urea	109kg/ha	E	10.7g	82.4-	5.1-	11.7-
13	Urea	217kg/ha	E	11.7a-e	80.9-	5.3-	11.5-
14	Urea	217kg/ha	F	12.0ab	81.5-	5.0-	11.2-
15	Urea	435kg/ha	E	12.1a	83.3-	5.2-	11.5-
16	Urea	109kg/ha	E	11.9a-d	83.3-	5.0-	11.4-
	Urea	109kg/ha	G				
17	Urea	109kg/ha	G	11.3ef	82.0-	4.9-	11.6-
18	Urea	217kg/ha	G	12.1a	84.0-	4.0-	11.5-
19	Urea	217kg/ha	B2	11.6b-f	85.0-	5.0-	11.6-
20	Urea	217kg/ha	D2	11.5def	84.1-	4.8-	11.3-
LSD P=				0.46	nsd	nsd	nsd
Treatment Prob.(F)=				0.0001	0.3008	0.6466	0.6784

NB: Application codes: B2 and D2 (Trts 19 and 20) had urea spread on the soil surface but without prior soil disturbance

Pest Scientific Name Pest Name Description Part Assessed Assessment Type Assessment Unit ARM Action Codes				Fusarium <i>pseudograminearum</i> Crown Rot		Bipolaris sorokiniana Common Root Rot
				Severity Stubble CR SEVERITY Rating	Incidence Crown PRESENCE %	Incidence Crown PRESENCE % AL
Trt No.	Treatment	Product Rate	Appln. Code			
1	Untreated	-	-	2.8c	12c	1.2a
3	Urea	217kg/ha	A	20.1ab	57a	0.5a
6	Urea	109kg/ha	A	11.7bc	43b	4.5a
	Urea	109kg/ha	G			
8	Urea	217kg/ha	C	13.5ab	47ab	0.7a
11	Urea	109kg/ha	C	13.6ab	40b	1.0a
	Urea	109kg/ha	G			
13	Urea	217kg/ha	E	14.5ab	46ab	0.5a
16	Urea	109kg/ha	E	23.0a	52ab	0.0a
	Urea	109kg/ha	G			
17	Urea	109kg/ha	G	22.2ab	48ab	4.0a
18	Urea	217kg/ha	G	20.4ab	51ab	4.0a
LSD=				10.55	13.61	nsd
Treatment Prob.(F)=				0.0159	0.0001	0.1745

N Management in Wheat 2016 - Tulloona

Trial ID: DK1602

Location: Tulloona

Trial Year: 2016

Assessment Type

NDVI = Normalized difference vegetation index

CR SEVERITY = % basal browning x extent of browning

Crop Stage Majority

11 = First leaf unfolded

30 = Beginning of stem elongation: pseudostem & tillers erect, 1st internode elong.

65 = Full flowering: 50% of anthers mature

89 = Fully ripe: grain hard, difficult to divide with thumbnail

ARM Action Codes

AL = Automatic log transformation of X+1

ET12 = Excluded treatment 12

ER2 = Excluded replicate 2

T1 = $([C1]/4)/0.32$ T2 = $([C4]/2)/.32$ TY3 = $0.5555555 * [C7]$

DP1 = Days after Planting

Application Description							
	A	B	C	D	E	F	G
Application Date:	14/12/2015	14/12/2015	23/02/2016	24/02/2016	14/06/2016	14/06/2016	8/08/2016
Application Method:	SPREAD						
Application Timing:	DECEMBER		FEBRUARY		IBS	PSPE	GS30
Application Placement:	INCORPN	SURFACE	INCORPN	SURFACE	INCORPN	SURFACE	TOPDRESS
Air Temperature, Unit:	18.2 C						
Wind Direction:	NE						
Dew Presence (Y/N):	No						
Soil Moisture:				DRY	FAIR	FAIR	DRY
% Cloud Cover:	0			0	0	0	0
Next Moisture Occurred On:	16/12/2015 – 4.6mm		29/03/2016 – 2.4mm		20/06/2016 – 21.6mm		

Application Equipment							
	A	B	C	D	E	F	G
Application Equipment:	PLANTER	SPREAD	PLANTER	SPREAD	PLANTER	SPREAD	PLANTER
Equipment Type:	SMALL PLOT PLANTER	MANUAL	SMALL PLOT PLANTER	MANUAL	SMALL PLOT PLANTER	MANUAL	