

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 - Macalister

Trial ID: LB1601 **Location:** Macalister **Trial Year:** 2016
Investigator: Linda Bailey

Planting Date:	22/07/2016						
Planting Equipment:	Small Plot Planter						
Row Spacing:	32cm						
Target Plant Population:	100 Plants /m ²						
Application Code:	A	B	C	D	E	F	G
Application Date:	7/12/2015	7/12/2015	29/02/2016	29/02/2016	22/07/2016	22/07/2016	26/09/2016
Target/Stage:	Spread & Incorpn. Dec	Spread Surface Dec	Spread & Incorpn. Feb	Spread Surface Feb	Spread & IBS	Spread PSPE	Spread at GS 30
Harvest Date:	25/11/2016						

Crop Name Crop Variety Assessment Date Assessment Type Assessment Unit Plant-Evaluation Interval ARM Action Codes				Wheat Suntop		
				10/08/2016 EMERGENCE /m ² 19 DP1 T1	20/10/2016 NDVI RATIO 90 DP1	25/11/2016 YIELD t/ha 126 DP1 TY2
Trt No.	Treatment	Product Rate	Appln. Code			
1	Untreated	-	-	71.3a-f	0.684fg	2.76-
2	Urea	109kg/ha	A	68.2c-f	0.762cde	3.08-
3	Urea	217kg/ha	A	78.1a-d	0.767b-e	3.11-
4	Urea	217kg/ha	B	76.6a-e	0.759de	2.95-
5	Urea	435kg/ha	A	78.3abc	0.763b-e	2.81-
6	Urea	109kg/ha	A	75.5a-f	0.747e	3.04-
	Urea	109kg/ha	G			
7	Urea	109kg/ha	C	77.0a-d	0.767b-e	3.16-
8	Urea	217kg/ha	C	77.3a-d	0.788ab	3.15-
9	Urea	217kg/ha	D	79.5abc	0.787abc	3.22-
10	Urea	435kg/ha	C	82.8a	0.793a	3.22-
11	Urea	109kg/ha	C	81.1ab	0.786abc	3.23-
	Urea	109kg/ha	G			
12	Urea	109kg/ha	E	65.6def	0.751e	2.96-
13	Urea	217kg/ha	E	63.7f	0.764b-e	2.83-
14	Urea	217kg/ha	F	81.3ab	0.767b-e	3.14-
15	Urea	435kg/ha	E	69.7b-f	0.781a-d	2.91-
16	Urea	109kg/ha	E	64.3ef	0.746e	2.91-
	Urea	109kg/ha	G			
17	Urea	109kg/ha	G	75.6a-f	0.682g	2.77-
18	Urea	217kg/ha	G	71.5a-f	0.708f	2.88-
19	Urea	217kg/ha	B2	68.2c-f	0.771a-e	3.13-
20	Urea	217kg/ha	D2	69.9b-f	0.780a-d	3.02-
LSD P=				12.50	0.0257	nsd
Treatment Prob.(F)=				0.0485	0.0001	0.0522
CV=						7.8

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)

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

Missing data estimates are included in columns: Average = 2, 3, 5, 6, 8, 9, 7, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19

nsd = No significant difference

N Management in Wheat 2016 - Macalister

Trial ID: LB1601

Location: Macalister

Trial Year: 2016

Crop Name Crop Variety Assessment Date Assessment Type Assessment Unit ARM Action Codes				Wheat Suntop			
				12/12/2016 PROTEIN %	12/12/2016 TEST WEIGHT kg/hL	12/12/2016 SCREENING %	12/12/2016 N RECOVERY kg/ha T3
Trt No.	Treatment	Product Rate	Appln. Code				
1	Untreated	-	-	10.3i	79.7abc	7.2d	49.8f
2	Urea	109kg/ha	A	11.8fg	78.1cde	9.9bc	63.9b-e
3	Urea	217kg/ha	A	12.6bcd	77.9de	10.9ab	68.4a-e
4	Urea	217kg/ha	B	12.4cd	78.0cde	10.6ab	63.9b-e
5	Urea	435kg/ha	A	12.5bcd	77.5de	10.4abc	61.6e
6	Urea	109kg/ha	A	12.3cde	78.1cde	10.8ab	65.4a-e
	Urea	109kg/ha	G				
7	Urea	109kg/ha	C	11.8g	78.4cde	9.4c	64.9b-e
8	Urea	217kg/ha	C	12.7bc	77.8de	11.3a	69.8abc
9	Urea	217kg/ha	D	12.5bcd	77.5e	10.6ab	70.7ab
10	Urea	435kg/ha	C	12.9ab	78.0cde	10.8ab	72.3a
11	Urea	109kg/ha	C	12.3cde	79.2a-d	9.8bc	69.6a-d
	Urea	109kg/ha	G				
12	Urea	109kg/ha	E	11.9efg	78.3cde	10.5ab	61.6e
13	Urea	217kg/ha	E	12.7bcd	78.8b-e	10.5abc	62.6cde
14	Urea	217kg/ha	F	12.5bcd	77.8de	10.3abc	68.8a-e
15	Urea	435kg/ha	E	13.1a	78.8b-e	11.2a	66.7a-e
16	Urea	109kg/ha	E	12.2def	78.5cde	10.3abc	62.3de
	Urea	109kg/ha	G				
17	Urea	109kg/ha	G	11.0h	80.5ab	7.9d	53.3f
18	Urea	217kg/ha	G	10.7hi	80.8a	7.0d	54.0f
19	Urea	217kg/ha	B2	12.4cd	78.0cde	10.6ab	67.5a-e
20	Urea	217kg/ha	D2	12.7abc	77.6de	10.5ab	67.1a-e
LSD P=				0.43	1.75	1.09	7.41
Treatment Prob.(F)=				0.0001	0.0091	0.0001	0.0001

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

N Management in Wheat 2016 - Macalister

Trial ID: LB1601

Location: Macalister

Trial Year: 2016

Pest Scientific Name Pest Name Description Part Assessed Assessment Date Assessment Type Assessment Unit				<i>Fusarium pseudograminearum</i> Crown Rot		<i>Bipolaris sorokiniana</i> Common Root Rot
				Severity Stubble 5/05/2017 CR SEVERITY Rating	Incidence Crown 5/05/2017 PRESENCE %	Incidence Crown 5/05/2017 PRESENCE %
Trt No.	Treatment	Product Rate	Appln. Code			
1	Untreated	-	-	8d	19f	1-
3	Urea	217kg/ha	A	13cd	41de	1-
6	Urea	109kg/ha	A	13cd	35e	3-
	Urea	109kg/ha	G			
8	Urea	217kg/ha	C	20b	50cd	2-
11	Urea	109kg/ha	C	14c	32ef	0-
	Urea	109kg/ha	G			
13	Urea	217kg/ha	E	24ab	57bc	0-
16	Urea	109kg/ha	E	29a	65ab	0-
	Urea	109kg/ha	G			
18	Urea	217kg/ha	G	30a	76a	0-
LSD=				5.7	14.8	nsd
Treatment Prob.(F)=				0.0001	0.0001	0.6112

Assessment Type

NDVI = Normalized difference vegetation Assessment using the NDVI machine.

N RECOVERY = Nitrogen recovery in grain kg N/ha

CR SEVERITY = % Basal browning x extent of browning).

PRESENCE = % of Samples infected

ARM Action Codes

ET17 = Excluded treatment 17

T1 = [C1]/1.28

TY2 = 0.8333333*[C4]

T3 = [C5]*[C6]*1.75

DP1 = Days after Planting

Application Description							
	A	B	C	D	E	F	G
Application Date:	7/12/2015	7/12/2015	29/02/2016	29/02/2016	22/07/2016	22/07/2016	26/09/2016
Application Method:	SPREAD	SPREAD	SPREAD	SPREAD	SPREAD	SPREAD	SPREAD
Application Timing:	DECEMBER	DECEMBER	FEBRUARY	FEBRUARY	IBS	PSPE	GS30
Application Placement:	INCORPN	SURFACE	INCORPN	SURFACE	INCORPN	TOPDRESS	TOPDRESS
Next Moisture Occurred On:	12/12/2015 - 14.2mm	12/12/2015 - 14.2mm	19/03/2016 - 1.2mm	19/03/2016 - 1.2mm	3/08/2016 - 8.6mm	3/08/2016 - 8.6mm	4/10/2016 - 10.6mm

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