Plant Growth Regulators in Barley 2015 - Moree

Trial ID: RN1516 **Location:** Moree **Trial Year:** 2015
Investigator: Rachel Norton

Planting Date:	**12/05/2015**	
Planting Equipment:	**Commercial single disc planter**	
Row Spacing:	**32cm**	
Application Code:	**A**	**B**
Application Date:	**09/07/2015**	**04/08/2015**
Crop Stage Average:	**GS32 (2nd Node)**	**GS37 (Tip of Flag leaf visible)**
Crop Stage Range:	**1-2 Node**	**6 node- flag fully visable**
Harvest Date:	**15/10/2015**	

Crop Name:				**Barley**						
Crop Variety:				**Commander**						
Rating Date:				**11/08/2015**	**10/09/2015**	**10/09/2015**	**14/10/2015**	**14/10/2015**	**14/10/2015**	**14/10/2015**
Rating Type:				**NDVI**	**NDVI**	**HEIGHT**	**YIELD**	**PROTEIN**	**MOISTURE**	**TEST WT**
Rating Unit:				**RATIO**	**RATIO**	**cm**	**t/ha**	**%**	**%**	**kg/hL**
Crop Stage Majority:				**37**	**58**	**58**	**99**			
Treatment-Evaluation Interval:				**34 DAA**	**64 DAA**	**64 DAA**	**98 DAA**			
ARM Action Codes:							**T2**	**AL**		
Trt No.	**Treatment**	**Product Rate**	**Appln. Code**							
1	Untreated	-	-	0.89-	0.82ab	113bc	5.4a	10.1-	13.2bc	66.5-
2	Moddus Evo	200ml/ha	A	0.89-	0.75ab	108c	5.2ab	9.8-	11.8d	67.3-
3	Moddus Evo	300ml/ha	A	0.86-	0.73b	104c	5.3a	9.9-	12.6bcd	65.1-
4	Moddus Evo	400ml/ha	A	0.88-	0.76ab	97d	5.2ab	9.9-	12.6bcd	64.2-
5	Moddus Evo	200ml/ha	A	0.90-	0.78ab	108c	5.1ab	9.6-	12.9bcd	66.1-
	Moddus Evo	200ml/ha	B							
6	Product E	500ml/ha	A	0.86-	0.79ab	95d	5.2ab	10.1-	13.4ab	65.1-
7	Moddus Evo	200ml/ha	A	0.89-	0.72b	90d	5.2ab	9.9-	14.5a	64.1-
	Product E	500ml/ha	A							
8	Moddus Evo	200ml/ha	B	0.91-	0.81ab	106c	5.5a	9.1-	11.7d	68.0-
9	Moddus Evo	300ml/ha	B	0.91-	0.81ab	106c	5.3ab	9.3-	11.9d	66.1-
10	Moddus Evo	400ml/ha	B	0.91-	0.82ab	103c	5.3a	9.9-	12.1cd	66.3-
11	Ethephon 720	500ml/ha	B	0.88-	0.81ab	96d	4.7b	9.5-	12.0d	65.6-
12	Moddus Evo	200ml/ha	B	0.89-	0.84ab	92d	4.1c	9.7-	12.2bcd	64.6-
	Ethephon 720	500ml/ha	B							
13	Urea	100kg/ha	A	0.92-	0.87a	121a	5.5a	11.5-	12.1cd	66.3-
14	Urea	100kg/ha	A	0.90-	0.84ab	116ab	5.5a	11.4-	12.5bcd	65.8-
	Moddus Evo	400ml/ha	A							
			LSD =	nsd	0.078	6.0	0.550	nsd	1.176	nsd
			CV=				7.4			
			Treatment Prob.(F)=	0.2909	0.0116	0.0001	0.0011	0.0572	0.0016	0.2028

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Crop Name:				Barley
Crop Variety:				Commander
Rating Date:				14/10/2015
Rating Type:				SCREENING
Rating Unit:				% w/w
Crop Stage Majority:				
Treatment-Evaluation Interval:				
ARM Action Codes:				AL
Trt No.	**Treatment**	**Product Rate**	**Appln. Code**	
1	Untreated	-	-	2.5b-f
2	Moddus Evo	200ml/ha	A	2.3c-f
3	Moddus Evo	300ml/ha	A	2.4b-f
4	Moddus Evo	400ml/ha	A	2.6b-e
5	Moddus Evo	200ml/ha	A	2.4b-f
	Moddus Evo	200ml/ha	B	
6	Product E	500ml/ha	A	2.7bcd
7	Moddus Evo	200ml/ha	A	3.1abc
	Product E	500ml/ha	A	
8	Moddus Evo	200ml/ha	B	1.9f
9	Moddus Evo	300ml/ha	B	2.2def
10	Moddus Evo	400ml/ha	B	2.1def
11	Ethephon 720	500ml/ha	B	1.8f
12	Moddus Evo	200ml/ha	B	2.0ef
	Ethephon 720	500ml/ha	B	
13	Urea	100kg/ha	A	3.2ab
14	Urea	100kg/ha	A	3.6a
	Moddus Evo	400ml/ha	A	
			LSD =	0.095t
			CV=	
			Treatment Prob.(F)=	0.0007

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
t=Mean descriptions are reported in transformed data units, and are not de-transformed.
nsd= No significant difference

Rating Type
NDVI = normalized difference vegetation index
Rating Unit
cm = centimetre
kg/hL = kilogram per hectolitre
Crop Stage Majority
37 = Flag leaf just visible, still rolled
58 = 80% of inflorescence emerged
99 = Harvested product
ARM Action Codes
AL = Automatic log transformation of X+1
T2 = [C4]*10000/ (2*10)/1000

DAA = Days after Application

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Application Description		
	A	B
Application Date:	09/07/2015	04/08/2015
Application Start Time:	9:00 AM	10:00 AM
Application Stop Time:	10:40 AM	10:55 AM
Application Method:	SPRAY	
Application Placement:	FOLIAR	
Air Temperature, Unit:	15.7 C	11.3 C
% Relative Humidity:	58	
Wind Velocity, Unit:	17km/h	19 km/h
Wind Direction:	ENE	SSW
Dew Presence (Y/N):	Yes	
Soil Moisture:	SLIWET	
% Cloud Cover:	0	
Next Moisture Occurred On:	22/07/2015	
Time to Next Moisture, Unit:	13 DAYS	

Application Equipment		
	A	B
Application Equipment:	Quad Bike	
Equipment Type:	Boom	
Operation Pressure, Unit:	300 kPa	
Nozzle Type:	AIXR	
Nozzle Size:	110015	
Nozzle Spacing, Unit:	50 cm	
Boom Length, Unit:	4 m	
Boom Height, Unit:	50 cm	
Ground Speed, Unit:	10.3 km/h	
Spray Volume, Unit:	70 L/ha	