#### **Disclaimer:**

Table of A x B Means:

Table of A x C Means:

Table of B x C Means:

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.

### **Mungbean Nutrition**

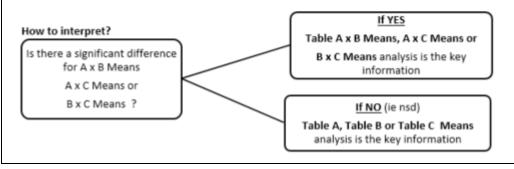
Trial ID: BD1714 Location: Mullaley Trial Year: 2017

Investigator: Branko Duric

Objective:	To evaluate the impact of nitrogen application in Mungbean					
Application Code:	A B					
Nitrogen Application Date:	13	13/09/2017				
Nitrogen Application Depth:	Shallow Placement – Depth 3-4cm	Deep Placement – Depth 16-17cm				
Planting Date:	12	2/12/2017				
Planting Depth:		3cm				
Row Spacing:		32 cm				
Planting Equipment: Small Plot Planter - Tyne						
Harvest Date:	9	9/03/2018				
Keywords:	Nitroge	Nitrogen, Mungbean				
	In S	Simple Terms				
Table of A Means:		formance with ALL 'Nitrogen Rate' treatments oculation' treatments				
Table of B Means:		rmance with ALL 'Nitrogen Placement' treatmen -/- inoculation' treatments				
Table of C Means:	Mean of '+/- inoculation' perf	formance with ALL 'Nitrogen Placement'				
	treatments and	'Nitrogen Rate' treatments				

'Nitrogen Placement' performance with EACH 'Nitrogen Rate' treatment

'Nitrogen Placement' performance with EACH '+/- inoculation' treatment 'Nitrogen Rate' performance with EACH '+/- inoculation' treatment



NB: As there was no significant difference for any interaction, only the main treatment effects are shown.

Crop	Name		Mungbean					
Crop '	Variety	Jade AU						
Asses	sment Date		27/12/2017	12/01/2018	9/03/2018	28/03/2018		
Asses	sment Type	<b>EMERGENCE</b>	NDVI	YIELD	PROTEIN			
Asses	sment Unit	/m²	Ratio	t/ha	%			
Crop :	Stage Majority:	13	60	89				
Plant-	-Evaluation Interval		15 DP1	31 DP1	87 DP1	106 DP1		
Trt No.	Treatment							
TABLE OF A MEANS (Urea Placement)								
1	Shallow Placement		Α	30-	0.59-	0.81-	16.5-	
2	Deep Placement	30-	0.60-	0.82-	16.4-			
TABLI	E OF B MEANS (Urea Rate)							
1	Untreated	-		31-	0.60-	0.79b	16.0c	
2	Urea	25kg N/ha		31-	0.59-	0.78b	16.4b	
3	Urea	28-	0.59-	0.79b	16.6a			
4	Urea	31-	0.60-	0.91a	16.7a			
TABLE OF C MEANS (Inoculation)								
1	No Inoculation		30-	0.60-	0.81-	16.4-		
2	Rhizobia Inoculation	31-	0.59-	0.83-	16.5-			

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

# **Mungbean Nutrition**

Trial ID: BD1714 Location: Mullaley Trial Year: 2017

FACTORIAL/POOLED ERROR AOV  Mungbean - Jade AU  27/12/2017  EMERGENCE /m² 13 15 DP1							
Source	Source   DF   Sum of Squares   Mean Square   F   Prob.(F)   LSD (.05)						
Total	63	824.241638					
R	3	21.247864	7.082621	0.534	0.6614		
Α	1	0.152588	0.152588	0.012	0.9151	2	
В	3	64.506531	21.502177	1.621	0.1978	3	
AB	3	44.250488	14.750163	1.112	0.3543	4	
С	1	6.446838	6.446838	0.486	0.4893	2	
AC	1	21.972656	21.972656	1.656	0.2047	3	
ВС	3	38.871765	12.957255	0.977	0.4122	4	
ABC	3	29.754639	9.918213	0.748	0.5295	5	
ERROR	45	597.038269	13.267517				

FACTORIAL/POOLED ERROR AOV Mungbean - Jade AU 12/01/2018 NDVI Ratio 60 31 DP1								
Source	Source DF Sum of Squares Mean Square F Prob.(F) LSD (.05)							
Total	63	0.102393						
R	3	0.004112	0.001371	0.817	0.4912			
Α	1	0.002213	0.002213	1.319	0.2568	0.02		
В	3	0.000841	0.000280	0.167	0.9180	0.03		
AB	3	0.006721	0.002240	1.335	0.2747	0.04		
С	1	0.000004	0.000004	0.002	0.9631	0.02		
AC	1	0.003890	0.003890	2.319	0.1348	0.03		
ВС	3	0.002121	0.000707	0.421	0.7385	0.04		
ABC	3	0.007004	0.002335	1.392	0.2575	0.06		
ERROR	45	0.075488	0.001678					

FACTORIAL/POOLED ERROR AOV Mungbean - Jade AU 9/03/2018 YIELD t/ha 89 87 DP1							
Source	DF	<b>Sum of Squares</b>	Mean Square	F	Prob.(F)	LSD (.05)	
Total	63	0.842486					
R	3	0.089481	0.029827	2.868	0.0469		
Α	1	0.001897	0.001897	0.182	0.6714	0.05	
В	3	0.194031	0.064677	6.218	0.0013	0.07	
AB	3	0.022730	0.007577	0.728	0.5404	0.10	
С	1	0.008582	0.008582	0.825	0.3685	0.05	
AC	1	0.016748	0.016748	1.610	0.2110	0.07	
ВС	3	0.034562	0.011521	1.108	0.3560	0.10	
ABC	3	0.006378	0.002126	0.204	0.8928	0.15	
ERROR	45	0.468076	0.010402				

# **Mungbean Nutrition**

Trial ID: BD1714 Location: Mullaley Trial Year: 2017

FACTORIAL/POOLED ERROR AOV Mungbean - Jade AU 28/03/2018 PROTEIN % 106 DP1								
Source	Source DF Sum of Squares Mean Square F Prob.(F) LSD (.05)							
Total	63	10.703594						
R	3	0.146719	0.048906	0.508	0.6786			
Α	1	0.056406	0.056406	0.586	0.4479	0.2		
В	3	5.449219	1.816406	18.874	0.0001	0.2		
AB	3	0.341719	0.113906	1.184	0.3266	0.3		
С	1	0.131406	0.131406	1.365	0.2488	0.2		
AC	1	0.026406	0.026406	0.274	0.6030	0.2		
ВС	3	0.044219	0.014740	0.153	0.9271	0.3		
ABC	3	0.176719	0.058906	0.612	0.6107	0.4		
ERROR	45	4.330781	0.096240					

#### Assessment Type

NDVI = Normalized difference vegetation index

#### Crop Stage Majority

13 = 3<sup>rd</sup> True leaf (1<sup>st</sup> trifoliate) unfolded

60 = First flowers open (sporadically)

89 = Fully ripe: pods ripe (beans hard)

DP1 = Days after Planting

Application Description						
A B						
Application Date: 14/09/2017 14/09/201						
Application Start Time:	11:00AM					
Application Stop Time:	1:00 PM					
Application Method:	DRILLED					
Application Placement:	3-4 cm depth 16-17 cm depth					