

**Disclaimer:**

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**Root-Lesion Nematode x Mungbean x Deep Phosphorous**

Trial ID: **LB1541**                      Location: **Macalister**                      Trial Year: **2015**  
Investigator: **Linda Bailey**

Planting Date:	14/09/2015	Granulock Z Extra (at planting):	40kg/ha
Row Spacing:	81cm	Total soil N:	150kg N/ha (18/02/2015)
Planting Equipment:	Small Plot Tyne Planter	Colwell P:	21mg/kg (0-10cm)    8mg/kg (10-30cm)
Harvest Date:	11/02/2016	BSES P:	24mg/kg (0-10cm)    10mg/kg (10-30cm)
Deep P Application:	29/11/2013 at 8 inches	Target Plant Stand:	90/m <sup>2</sup>
Low <i>P thornei</i> (ex-Caparoi 2013):	2.4 Pt/g soil (12/08/2015)	Plot Size (Planted):	9 x 2 m (5 rows x 36cm)
High <i>P thornei</i> (ex-Strzelecki 2013):	29 Pt/g soil (12/08/2015)	Plot Size (Harvested):	6 x 2m
PAW Wheat:	130mm (18/02/2015)		

Trial designed and analysed as a Split Plot

	In Simple Terms
Table of A Means:	Mean of 'Nematode Pop' performance with ALL 'Phosphorus Rate' treatments and 'Variety' treatments
Table of B Means:	Mean of 'Phosphorus Rate' performance with ALL 'Nematode Pop' treatments and 'Variety' treatments
Table of C Means:	Mean of 'Variety' performance with ALL 'Nematode Pop' treatments and 'Phosphorus Rate' treatments
Table of A x B Means:	'Nematode Pop' performance with EACH 'Phosphorus Rate' treatment
Table of A x C Means:	'Nematode Pop' performance with EACH 'Variety' treatment
Table of B x C Means:	'Phosphorus Rate' performance with EACH 'Variety' treatment

**How to interpret?**

Is there a significant difference for A x B Means  
A x C Means or  
B x C Means ?

**If YES**  
Table A x B Means, A x C Means or  
B x C Means analysis is the key information

**If NO** (ie nsd)  
Table A, Table B or Table C Means analysis is the key information

## Root-Lesion Nematode x Mungbean x Deep Phosphorous

Trial ID: LB1541      Location: Macalister      Trial Year: 2015

Crop Name		Mungbean		
		29/12/2015	9/02/2016	3/03/2016
Assessment Date		EMERGENCE	NDVI	YIELD
Assessment Type		/m <sup>2</sup>	RATIO	t/ha
Assessment Unit		T1		TY2
ARM Action Code				5.0
Yield CV %				
Trt No.	Treatment			
<b>TABLE OF A MEANS (Nematode Population)</b>				
1	Low RLN population	16.6-	0.868-	1.9-
2	High RLN population	16.6-	0.873-	2.0-
<b>TABLE OF B MEANS (Phosphorus Rate)</b>				
1	Nil P (10N)	16.2-	0.871-	1.9-
2	Deep P (22P 10N)	16.9-	0.870-	2.0-
<b>TABLE OF C MEANS (Variety)</b>				
1	Jade	16.6ab	0.885a	2.2b
2	Crystal	17.8a	0.886a	2.4a
3	Celera II	15.3b	0.840b	1.2c
<b>TABLE OF A x B MEANS (Nematode Population x Phosphorus Rate)</b>				
1	Low RLN population	16.2-	0.871-	1.9-
1	Nil P (10N)			
2	High RLN population	16.3-	0.871-	2.0-
1	Nil P (10N)			
1	Low RLN population	16.9-	0.866-	1.9-
2	Deep P (22P 10N)			
2	High RLN population	17.0-	0.875-	2.0-
2	Deep P (22P 10N)			
<b>TABLE OF A x C MEANS (Nematode Population x Variety)</b>				
1	Low RLN population	17.3-	0.885-	2.1c
1	Jade			
2	High RLN population	16.0-	0.885-	2.3bc
1	Jade			
1	Low RLN population	17.5-	0.887-	2.4ab
2	Crystal			
2	High RLN population	18.2-	0.885-	2.5a
2	Crystal			
1	Low RLN population	14.9-	0.833-	1.2d
3	Celera II			
2	High RLN population	15.7-	0.848-	1.2d
3	Celera II			
<b>TABLE OF B x C MEANS (Phosphorus Rate x Variety)</b>				
1	Nil P (10N)	15.5-	0.885-	2.2-
1	Jade			
2	Deep P (22P 10N)	17.8-	0.885-	2.2-
1	Jade			
1	Nil P (10N)	18.1-	0.885-	2.4-
2	Crystal			
2	Deep P (22P 10N)	17.6-	0.887-	2.5-
2	Crystal			
1	Nil P (10N)	15.2-	0.842-	1.2-
3	Celera II			
2	Deep P (22P 10N)	15.5-	0.839-	1.2-
3	Celera II			

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

## Root-Lesion Nematode x Mungbean x Deep Phosphorous

Trial ID: LB1541

Location:

Macalister

Trial Year:

2015

**Assessment Type**

NDVI = Normalized difference vegetation index

**ARM Action Codes**

T1 = [1]/3.24,

TY2 = 0.7142857\*[4]

COMPLETE SPLIT-PLOT AOV						
Mungbean						
29/12/2015						
EMERGENCE /m <sup>2</sup>						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	47	222.877				
R	3	2.445	0.815	0.23	0.871	
A	1	0.101	0.101	0.03	0.877	
ERROR A	3	10.654	3.551			
B	1	6.163	6.163	1.50	0.230	
C	2	51.032	25.516	6.21	<b>0.006</b>	1.5
AB	1	0.041	0.041	0.01	0.921	
AC	2	12.062	6.031	1.47	0.247	
BC	2	16.882	8.441	2.05	0.146	
ABC	4	17.083	4.271	1.04	0.403	
ERROR B	30	123.296	4.110			

COMPLETE SPLIT-PLOT AOV						
Mungbean						
9/02/2016						
NDVI RATIO %						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	47	0.0396				
R	3	0.0011	0.0004	1.14	0.460	
A	1	0.0003	0.0003	0.78	0.442	
ERROR A	3	0.0010	0.0003			
B	1	0.0000	0.0000	0.01	0.932	
C	2	0.0218	0.0109	23.10	<b>0.000</b>	0.016
AB	1	0.0003	0.0003	0.58	0.451	
AC	2	0.0007	0.0003	0.71	0.502	
BC	2	0.0001	0.0000	0.07	0.935	
ABC	4	0.0003	0.0001	0.18	0.946	
ERROR B	30	0.0141	0.0005			

COMPLETE SPLIT-PLOT AOV						
Mungbean						
3/03/2016						
YIELD t/ha						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	47	14.693				
R	3	0.023	0.008	0.15	0.923	
A	1	0.053	0.053	1.07	0.378	
ERROR A	3	0.150	0.050			
B	1	0.008	0.008	0.80	0.379	
C	2	14.051	7.026	746.08	<b>0.000</b>	0.07
AB	1	0.003	0.003	0.35	0.556	
AC	2	0.070	0.035	3.74	<b>0.036</b>	0.10/0.22
BC	2	0.024	0.012	1.26	0.298	
ABC	4	0.052	0.013	1.37	0.267	
ERROR B	30	0.283	0.009			

<b>Root-Lesion Nematode x Mungbean x Deep P</b>
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Trial ID: LB1541

Location: Macalister

Trial Year: 2015

<b>Pest Scientific Name</b>		<i>Pratylenchus thornei</i>
<b>Pest Name</b>		Root-Lesion Nematode
<b>Assessment Date</b>		7/03/2016
<b>Assessment Type</b>		COUNT
<b>Assessment Unit</b>		Pt/g soil
<b>ARM Action Codes</b>		AL
Trt No.	Treatment	
4	Low RLN population Deep P (22P 10N) Jade	4.5b
5	Low RLN population Deep P (22P 10N) Crystal	4.5b
6	Low RLN population Deep P (22P 10N) Celera II	4.2b
10	High RLN population Deep P (22P 10N) Jade	28.5a
11	High RLN population Deep P (22P 10N) Crystal	25.0a
12	High RLN population Deep P (22P 10N) Celera II	25.5a
LSD P=		0.16t
Treatment Prob.(F)=		0.0001

Means followed by same letter do not significantly differ ( $P=0.05$ , LSD)

Mean separations are based on the complete error term.

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.

**Assessment Unit**

Pt/g = *P thornei* per gram soil

**ARM Action Codes**

AL = Automatic log transformation of X+1