

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.

***Pratylenchus thornei* - Faba bean Resistance Screen 2015 - Macalister**

Trial ID: LB1503

Location: Macalister

Trial Year: 2015

Investigator: Linda Bailey

Planting Date:	31/03/2015
Harvest Date:	09/10/2015
Low <i>P thornei</i> (ex-Caparoi 2013):	2.7 Pt/g soil (18/02/2015)
High <i>P thornei</i> (ex-Strzelecki 2013):	29 Pt/g soil (18/02/2015)
PAW Wheat:	130mm (18/02/2015)
Granulock Z Extra (at planting):	40kg/ha

Total soil N:	150kg N/ha (18/02/2015)
Colwell P:	21mg/kg (0-10cm) 8mg/kg (10-30cm)
BSES P:	24mg/kg (0-10cm) 10mg/kg (10-30cm)
Target Plant Stand:	30/m ²
Plot Size (Planted):	9 x 2 m (5 rows x 36cm)
Plot Size (Harvested):	6 x 2m

Crop Name		Faba bean		
Rating Date		21/04/2015	24/06/2015	9/10/2015
Rating Type		EMERGENCE	NDVI	YIELD
Rating Unit		/m ²	RATIO	t/ha
ARM Action Codes				TY1
Trt No.	Treatment			
TABLE OF A (Nematode Pop) MEANS				
1	Low <i>Pt</i>	31-	0.804-	1.92-
2	High <i>Pt</i>	31-	0.802-	1.88-
TABLE OF B (Variety) MEANS				
1	PBA Warda	29c	0.804ab	2.22a
2	Doza	31abc	0.805ab	1.77c
3	PBA Nasma	29c	0.808a	1.91bc
4	IX474/4-3	32ab	0.792c	2.11ab
5	IX477/17-15	34a	0.807a	2.04ab
6	IX506/1-9	30bc	0.801b	1.36d
TABLE OF A (Nematode Pop) B (Variety) MEANS				
1	Low <i>Pt</i>	29-	0.805-	2.20-
1	PBA Warda			
2	High <i>Pt</i>	30-	0.803-	2.24-
1	PBA Warda			
1	Low <i>Pt</i>	32-	0.807-	1.75-
2	Doza			
2	High <i>Pt</i>	31-	0.803-	1.78-
2	Doza			
1	Low <i>Pt</i>	29-	0.808-	1.99-
3	PBA Nasma			
2	High <i>Pt</i>	29-	0.807-	1.83-
3	PBA Nasma			
1	Low <i>Pt</i>	32-	0.791-	2.08-
4	IX474/4-3			
2	High <i>Pt</i>	32-	0.794-	2.14-
4	IX474/4-3			
1	Low <i>Pt</i>	33-	0.806-	2.09-
5	IX477/17-15			
2	High <i>Pt</i>	34-	0.808-	1.98-
5	IX477/17-15			
1	Low <i>Pt</i>	30-	0.807-	1.38-
6	IX506/1-9			
2	High <i>Pt</i>	30-	0.795-	1.33-
6	IX506/1-9			

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

Pratylenchus thornei - Faba bean Resistance Screen 2015 - Macalister

Trial ID: LB1503 Location: Macalister Trial Year: 2015

Crop Name		Faba bean	
Pest Scientific Name		<i>Uromyces viciae-fabae</i>	<i>Pratylenchus thornei</i>
Pest Name		Leaf Rust	Root-lesion Nematode
Rating Date		7/09/2015	7/03/2016
Rating Type		LEAF AREA AFFECTED	COUNT
Rating Unit		%	Pt/g Soil
Plant-Evaluation Interval		160 DP1	342 DP1
ARM Action Codes			AL
Trt No.	Treatment		
1	Low <i>Pt</i> PBA Warda	38bc	14.6d
2	Low <i>Pt</i> Doza	20cd	27.8bc
3	Low <i>Pt</i> PBA Nasma	40abc	18.2d
4	Low <i>Pt</i> IX474/4-3	39abc	19.7cd
5	Low <i>Pt</i> IX477/17-15	45ab	20.0cd
6	Low <i>Pt</i> IX506/1-9	60a	19.4cd
7	High PBA Warda	33bc	37.1ab
8	High <i>Pt</i> Doza	10d	52.6a
9	High <i>Pt</i> PBA Nasma	30bcd	54.2a
10	High <i>Pt</i> IX474/4-3	28bcd	41.3a
11	High <i>Pt</i> IX477/17-15	28bcd	46.0a
12	High <i>Pt</i> IX506/1-9	35bc	49.2a
LSD P=		21.9	0.17t
Treatment Prob.(F)=		0.0138	0.0001

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.

Rating Type

NDVI = normalized difference vegetation index

ARM Action Codes

AL = Automatic log transformation of X+1

DP1 = Days after Planting

COMPLETE SPLIT-PLOT AOV						
Faba bean						
21/04/2015						
EMERGENCE /m ² 21 DP1						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	95	1450.981563				
A	1	3.117604	3.117604	0.232	0.6447	1.8
ERROR A	7	94.036563	13.433795			
B	5	234.738437	46.947687	3.423	0.0080	2.6
AB	5	23.526771	4.705354	0.343	0.8850	3.7
ERROR B	70	959.959792	13.713711			

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Trial Year: 2015

COMPLETE SPLIT-PLOT AOV						
Faba bean						
24/06/2015						
NDVI RATIO 85 DP1						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	95	0.008911				
A	1	0.000148	0.000148	2.030	0.1972	0.004
ERROR A	7	0.000511	0.000073			
B	5	0.002531	0.000506	8.034	0.0001	0.006
AB	5	0.000680	0.000136	2.158	0.0686	0.008
ERROR B	70	0.004411	0.000063			

COMPLETE SPLIT-PLOT AOV						
Faba bean						
9/10/2015						
YIELD t/ha 192 DP1 TY1						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	95	21.352652				
A	1	0.025380	0.025380	0.206	0.6638	0.17
ERROR A	7	0.863471	0.123353			
B	5	7.602095	1.520419	18.839	0.0001	0.20
AB	5	0.158555	0.031711	0.393	0.8521	0.28
ERROR B	70	5.649431	0.080706			