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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.

Impact of *Pratylenchus thornei* on Barley

Trial ID: **NGA1501 – Barley NVT** Location: **Macalister** Trial Year: **2015**
Investigator: **Linda Bailey**

Planting Date:	28/05/2015	Total Soil N:	150kg N/ha (18/02/2015)
Harvest Date:	2/11/2015	Colwell P:	21mg/kg (0-10cm) 8mg/kg (10-30cm)
Low <i>P thornei</i> (ex-Caparoï 2013):	2.7 Pt/g Soil (18/02/2015)	BSES P:	24mg/kg (0-10cm) 10mg/kg (10-30cm)
High <i>P thornei</i> (ex-Strzelecki 2013):	29 Pt/g Soil (18/02/2015)	Target Plant Stand:	90/m ²
PAW Wheat:	130mm (18/02/2015)	Plot Size (Planted):	9 x 2 m (5 rows x 36cm)
Granulock Z Extra (at Planting):	40kg/ha	Plot Size (Harvested):	6 x 2m
Objectives:	To evaluate the impact of <i>Pratylenchus thornei</i> on yield of commercial barley varieties together with the impact of variety choice on nematode populations		
Keywords:	Barley, <i>Pratylenchus thornei</i> , root-lesion nematode, RLN		

Low Pt = Low population density of *P thornei*

High Pt = High population density of *P thornei*

Crop Scientific Name:		<i>Hordeum vulgare</i>			
Crop Name:		Barley			
Rating Date:		7/09/2015	02/11/2015	4/02/2016	4/02/2016
Rating Type:		NDVI	YIELD	PROTEIN	MOISTURE
Rating Unit:		Ratio	t/ha	%	%
Trt No.	Treatment				

TABLE OF A MEANS (Nematode Population)

1	Low Pt	0.799-	4.56-	13.4a	12.0-
2	High Pt	0.793-	4.66-	13.2b	12.0-

TABLE OF B MEANS (Variety)

1	Experimental 1	0.795e-i	4.34opq	14.0ab	11.8ijk
2	Alestar	0.803c-h	4.55j-n	13.2f-i	12.1a-d
3	Bass	0.810a-d	4.52k-o	14.1a	12.0c-g
4	Commander	0.800d-i	5.10ab	13.1h-k	12.0c-h
5	Compass	0.806b-h	4.87c-g	13.3fgh	12.0c-f
6	Fathom	0.791h-k	4.96a-d	13.3fgh	11.8jk
7	Flinders	0.785ijk	4.45l-p	13.7cd	12.0e-j
8	Gairdner	0.820ab	4.08r	13.7cde	12.0c-h
9	Granger	0.787ijk	4.68g-k	13.2g-j	12.0c-h
10	Grout	0.804c-h	4.58i-m	12.8lm	11.6l
11	Hindmarsh	0.770lm	4.77e-i	13.3fg	12.1abc
12	Rosalind	0.759m	5.00abc	12.7m	11.8jk
13	Experimental 2	0.817abc	4.92b-f	13.4efg	12.1b-e
14	Spartacus	0.777kl	4.68g-k	13.4efg	11.9h-k
15	Experimental 3	0.760m	4.62h-l	13.6cde	12.0c-g
16	La Trobe	0.779jkl	4.80d-h	13.0jkl	12.1abc
17	Macquarie	0.823a	4.32pq	13.6cde	12.2ab
18	Maltstar	0.800d-i	4.59i-m	12.6m	12.1a-d
19	Oxford	0.808a-g	4.71g-k	13.0ijk	12.0e-j
20	Scope	0.814a-d	4.17qr	13.2f-i	11.8k
21	Shepherd	0.791h-k	4.48l-p	13.8abc	11.9f-j
22	Topstart	0.806b-h	4.73f-j	12.7m	12.2ab
23	Experimental 4	0.793g-j	4.59i-m	13.3fgh	12.1a-d
24	Experimental 5	0.803c-h	4.64h-l	13.2g-j	12.0c-h
25	Brewstart	0.807b-g	4.41m-p	12.9klm	11.9g-j
26	SY Rattler	0.756m	4.37nop	13.5def	12.2a
27	Westminster	0.810a-e	3.99r	13.8abc	12.1a-d
28	WI4896	0.794f-i	4.93b-e	12.9klm	12.0d-h
29	WI4897	0.806b-g	5.15a	13.2g-j	12.0e-i
30	Wimmera	0.809a-f	4.40m-p	13.8bc	11.9f-j

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

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Location: Macalister

Trial Year: 2015

Crop Scientific Name:		<i>Hordeum vulgare</i>			
Crop Name:		Barley			
Rating Date:		7/09/2015	2/11/2015	4/02/2016	4/02/2016
Rating Type:		NDVI	YIELD	PROTEIN	MOISTURE
Rating Unit:		Ratio	t/ha	%	%
Trt No.	Treatment				
TABLE OF A x B MEANS (Nematode Population x Variety)					
1a	Low <i>Pt</i> , Experimental 1	0.800-	4.28t-z	14.2-	11.9-
1b	High <i>Pt</i> , Experimental 1	0.790-	4.40q-x	13.8-	11.8-
2a	Low <i>Pt</i> , Alestar	0.807-	4.33s-y	13.2-	12.1-
2b	High <i>Pt</i> , Alestar	0.799-	4.76f-m	13.3-	12.2-
3a	Low <i>Pt</i> , Bass	0.817-	4.42q-x	14.2-	12.1-
3b	High <i>Pt</i> , Bass	0.803-	4.63j-r	14.0-	12.0-
4a	Low <i>Pt</i> , Commander	0.802-	5.13ab	13.0-	12.0-
4b	High <i>Pt</i> , Commander	0.798-	5.07a-d	13.1-	12.0-
5a	Low <i>Pt</i> , Compass	0.816-	4.88b-j	13.2-	12.0-
5b	High <i>Pt</i> , Compass	0.796-	4.85c-j	13.4-	12.1-
6a	Low <i>Pt</i> , Fathom	0.797-	4.87b-j	13.5-	11.8-
6b	High <i>Pt</i> , Fathom	0.785-	5.05a-e	13.1-	11.8-
7a	Low <i>Pt</i> , Flinders	0.795-	4.49n-v	13.8-	12.0-
7b	High <i>Pt</i> , Flinders	0.776-	4.41q-x	13.6-	11.9-
8a	Low <i>Pt</i> , Gairdner	0.826-	4.04zA	13.8-	12.0-
8b	High <i>Pt</i> , Gairdner	0.814-	4.13yz	13.5-	12.1-
9a	Low <i>Pt</i> , Granger	0.791-	4.56l-s	13.2-	12.1-
9b	High <i>Pt</i> , Granger	0.784-	4.81d-l	13.2-	12.0-
10a	Low <i>Pt</i> , Grout	0.802-	4.44p-w	13.0-	11.6-
10b	High <i>Pt</i> , Grout	0.807-	4.72g-o	12.6-	11.6-
11a	Low <i>Pt</i> , Hindmarsh	0.767-	4.64i-r	13.3-	12.1-
11b	High <i>Pt</i> , Hindmarsh	0.774-	4.90b-j	13.4-	12.2-
12a	Low <i>Pt</i> , Rosalind	0.767-	4.90b-i	12.7-	11.7-
12b	High <i>Pt</i> , Rosalind	0.751-	5.09abc	12.7-	12.0-
13a	Low <i>Pt</i> , Experimental 2	0.808-	4.83c-k	13.6-	12.0-
13b	High <i>Pt</i> , Experimental 2	0.827-	5.00a-f	13.3-	12.1-
14a	Low <i>Pt</i> , Spartacus	0.780-	4.70g-p	13.5-	11.8-
14b	High <i>Pt</i> , Spartacus	0.775-	4.66h-q	13.4-	12.0-
15a	Low <i>Pt</i> , Experimental 3	0.775-	4.85c-j	13.6-	12.1-
15b	High <i>Pt</i> , Experimental 3	0.746-	4.38r-y	13.6-	12.0-
16a	Low <i>Pt</i> , La Trobe	0.792-	4.79e-l	13.0-	12.1-
16b	High <i>Pt</i> , La Trobe	0.765-	4.80d-l	12.9-	12.1-
17a	Low <i>Pt</i> , Macquarie	0.821-	4.25v-z	13.8-	12.2-
17b	High <i>Pt</i> , Macquarie	0.824-	4.39r-y	13.4-	12.2-
18a	Low <i>Pt</i> , Maltstar	0.798-	4.41q-x	12.8-	12.0-
18b	High <i>Pt</i> , Maltstar	0.801-	4.77f-m	12.5-	12.3-
19a	Low <i>Pt</i> , Oxford	0.807-	4.55l-s	13.1-	11.9-
19b	High <i>Pt</i> , Oxford	0.808-	4.86b-j	12.9-	12.0-
20a	Low <i>Pt</i> , Scope	0.817-	4.18w-z	13.2-	11.7-
20b	High <i>Pt</i> , Scope	0.812-	4.16xyz	13.3-	11.9-
21a	Low <i>Pt</i> , Shepherd	0.791-	4.54l-t	14.0-	11.9-
21b	High <i>Pt</i> , Shepherd	0.791-	4.42q-x	13.6-	12.0-
22a	Low <i>Pt</i> , Topstart	0.802-	4.73g-o	12.8-	12.2-
22b	High <i>Pt</i> , Topstart	0.810-	4.74f-o	12.5-	12.2-
23a	Low <i>Pt</i> , Experimental 4	0.796-	4.66h-q	13.3-	12.2-
23b	High <i>Pt</i> , Experimental 4	0.790-	4.51m-u	13.3-	12.0-
24a	Low <i>Pt</i> , Experimental 5	0.813-	4.75f-n	13.3-	12.0-
24b	High <i>Pt</i> , Experimental 5	0.793-	4.52m-u	13.1-	12.0-

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Location: Macalister

Trial Year: 2015

Crop Scientific Name:		<i>Hordeum vulgare</i>			
Crop Name:		Barley			
Rating Date:		7/09/2015	2/11/2015	4/02/2016	4/02/2016
Rating Type:		NDVI	YIELD	PROTEIN	MOISTURE
Rating Unit:		Ratio	t/ha	%	%
Trt No.	Treatment				
25a	Low <i>Pt</i> , Brewstart	0.805-	4.34s-y	12.9-	11.8-
25b	High <i>Pt</i> , Brewstart	0.808-	4.47o-v	12.9-	12.0-
26a	Low <i>Pt</i> , SY Rattler	0.766-	4.15xyz	13.7-	12.3-
26b	High <i>Pt</i> , SY Rattler	0.747-	4.58k-s	13.2-	12.2-
27a	Low <i>Pt</i> , Westminster	0.815-	3.78A	14.1-	12.1-
27b	High <i>Pt</i> , Westminster	0.804-	4.20w-z	13.6-	12.1-
28a	Low <i>Pt</i> , WI4896	0.796-	4.93b-h	12.9-	12.0-
28b	High <i>Pt</i> , WI4896	0.792-	4.94b-g	12.9-	12.0-
29a	Low <i>Pt</i> , WI4897	0.802-	5.24a	13.3-	11.9-
29b	High <i>Pt</i> , WI4897	0.811-	5.06a-e	13.1-	12.0-
30a	Low <i>Pt</i> , Wimmera	0.811-	4.26u-z	14.1-	12.0-
30b	High <i>Pt</i> , Wimmera	0.807-	4.54l-t	13.5-	11.9-

Yield cv 4.2%

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Location: Macalister

Trial Year: 2015

Crop Scientific Name:		<i>Hordeum vulgare</i>		
Crop Name:		Barley		
Rating Date:		4/02/2016	4/02/2016	4/02/2016
Rating Type:		TEST WEIGHT	SCREENING	RETENTION
Rating Unit:		kg/hL	%	%
Trt No.	Treatment			
TABLE OF A MEANS (Nematode Population)				
1	Low <i>Pt</i>	66.3-	1.7-	90.5-
2	High <i>Pt</i>	66.4-	1.5-	90.9-
TABLE OF B MEANS (Variety)				
1	Experimental 1	66.8c-h	1.0i-n	95.1a-e
2	Alestar	65.8k-o	1.3g-k	94.0def
3	Bass	65.7l-o	1.1i-n	95.3a-e
4	Commander	66.5e-j	1.7efg	93.4e-h
5	Compass	66.9c-f	0.6o	97.4a
6	Fathom	66.0j-n	0.8k-o	96.5abc
7	Flinders	66.2h-m	1.3g-j	91.7f-i
8	Gairdner	65.0pq	3.7a	76.0l
9	Granger	67.2bcd	1.0i-o	96.2a-d
10	Grout	66.0i-n	0.8l-o	94.8b-e
11	Hindmarsh	67.6b	1.5gh	90.6i
12	Rosalind	66.9c-f	1.0i-n	93.8d-g
13	Experimental 2	66.6d-i	1.5fgh	91.4ghi
14	Spartacus	67.6b	1.3g-j	90.5i
15	Experimental 3	68.4a	1.0i-n	91.2hi
16	La Trobe	67.3bc	1.3g-j	90.3i
17	Macquarie	66.2h-m	3.7a	73.4m
18	Maltstar	66.1i-n	2.9b	85.6j
19	Oxford	66.4f-k	2.3cd	85.2j
20	Scope	65.5nop	2.3cd	85.5j
21	Shepherd	66.8c-g	0.9j-o	94.6b-e
22	Topstart	65.7mno	2.8b	82.4k
23	Experimental 4	66.5e-j	1.4ghi	93.1e-h
24	Experimental 5	64.8q	2.0de	84.5jk
25	Brewstart	66.3g-l	1.2h-l	93.7d-g
26	SY Rattler	65.5nop	2.6bc	86.5j
27	Westminster	66.0i-n	1.1h-m	94.0c-f
28	Experimental 6	66.4f-k	0.7no	96.8ab
29	Experimental 7	67.1b-e	0.7mno	96.9ab
30	Wimmera	65.3opq	2.0def	89.3i
TABLE OF A x B MEANS (Nematode Population x Variety)				
1a	Low <i>Pt</i> , Experimental 1	67.0-	0.9p-v	95.5a-e
1b	High <i>Pt</i> , Experimental 1	66.6-	1.2m-t	94.7a-f
2a	Low <i>Pt</i> , Alestar	65.7-	1.4l-q	93.5b-j
2b	High <i>Pt</i> , Alestar	66.0-	1.1n-u	94.5a-h
3a	Low <i>Pt</i> , Bass	65.5-	1.2m-t	95.4a-e
3b	High <i>Pt</i> , Bass	66.0-	0.9p-v	95.1a-f
4a	Low <i>Pt</i> , Commander	66.1-	2.2e-h	92.7d-l
4b	High <i>Pt</i> , Commander	67.0-	1.1n-u	94.2a-i
5a	Low <i>Pt</i> , Compass	66.9-	0.7s-v	97.5a
5b	High <i>Pt</i> , Compass	66.9-	0.5v	97.4a
6a	Low <i>Pt</i> , Fathom	65.7-	1.1n-v	96.1a-d
6b	High <i>Pt</i> , Fathom	66.3-	0.6uv	96.9ab
7a	Low <i>Pt</i> , Flinders	65.7-	1.5k-p	90.1j-n
7b	High <i>Pt</i> , Flinders	66.7-	1.2m-t	93.3c-l

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Trial ID: NGA1501 – Barley NVT

Location: Macalister

Trial Year: 2015

Crop Scientific Name:		<i>Hordeum vulgare</i>		
Crop Name:		Barley		
Rating Date:		4/02/2016	4/02/2016	4/02/2016
Rating Type:		TEST WEIGHT	SCREENING	RETENTION
Rating Unit:		kg/hL	%	%
Trt No.	Treatment			
8a	Low <i>Pt</i> , Gairdner	64.9-	2.9bcd	80.1uv
8b	High <i>Pt</i> , Gairdner	65.0-	4.4a	71.9w
9a	Low <i>Pt</i> , Granger	67.3-	1.2m-u	95.9a-d
9b	High <i>Pt</i> , Granger	67.1-	0.8q-v	96.4abc
10a	Low <i>Pt</i> , Grout	65.9-	0.8q-v	94.5a-h
10b	High <i>Pt</i> , Grout	66.2-	0.8q-v	95.1a-f
11a	Low <i>Pt</i> , Hindmarsh	67.8-	1.5j-p	91.1g-m
11b	High <i>Pt</i> , Hindmarsh	67.4-	1.6i-o	90.0j-o
12a	Low <i>Pt</i> , Rosalind	67.1-	1.1n-u	93.4b-k
12b	High <i>Pt</i> , Rosalind	66.7-	1.0o-v	94.1a-i
13a	Low <i>Pt</i> , Experimental 2	66.5-	1.9g-l	90.7i-m
13b	High <i>Pt</i> , Experimental 2	66.8-	1.2m-t	92.1e-m
14a	Low <i>Pt</i> , Spartacus	67.6-	1.3m-s	90.0k-o
14b	High <i>Pt</i> , Spartacus	67.7-	1.4l-q	91.0h-m
15a	Low <i>Pt</i> , Experimental 3	68.4-	1.0o-v	90.7i-m
15b	High <i>Pt</i> , Experimental 3	68.3-	1.0o-v	91.7f-m
16a	Low <i>Pt</i> , La Trobe	67.2-	1.3l-r	90.2j-n
16b	High <i>Pt</i> , La Trobe	67.5-	1.3l-r	90.5j-n
17a	Low <i>Pt</i> , Macquarie	66.8-	3.2b	78.1v
17b	High <i>Pt</i> , Macquarie	65.6-	4.1a	68.7W
18a	Low <i>Pt</i> , Maltstar	66.0-	3.2bc	84.6rst
18b	High <i>Pt</i> , Maltstar	66.2-	2.6def	86.5o-s
19a	Low <i>Pt</i> , Oxford	66.7-	2.3efg	85.6p-s
19b	High <i>Pt</i> , Oxford	66.2-	2.2e-h	84.8rst
20a	Low <i>Pt</i> , Scope	65.2-	2.3efg	85.3qrs
20b	High <i>Pt</i> , Scope	65.9-	2.3efg	85.6p-s
21a	Low <i>Pt</i> , Shepherd	67.0-	1.0o-v	94.9a-f
21b	High <i>Pt</i> , Shepherd	66.7-	0.9p-v	94.4a-h
22a	Low <i>Pt</i> , Topstart	66.2-	3.0bcd	81.4tuv
22b	High <i>Pt</i> , Topstart	65.1-	2.6cde	83.4stu
23a	Low <i>Pt</i> , Experimental 4	66.5-	1.7h-n	92.0e-m
23b	High <i>Pt</i> , Experimental 4	66.5-	1.1o-v	94.1a-i
24a	Low <i>Pt</i> , Experimental 5	64.9-	2.1e-i	80.1uv
24b	High <i>Pt</i> , Experimental 5	64.8-	2.0f-k	89.0m-p
25a	Low <i>Pt</i> , Brewstart	66.0-	1.4k-p	92.9d-l
25b	High <i>Pt</i> , Brewstart	66.6-	1.0o-v	94.6a-f
26a	Low <i>Pt</i> , SY Rattler	65.3-	3.2b	86.1p-s
26b	High <i>Pt</i> , SY Rattler	65.8-	2.1e-j	87.0n-r
27a	Low <i>Pt</i> , Westminster	65.9-	1.3l-r	93.5b-k
27b	High <i>Pt</i> , Westminster	66.2-	1.0o-v	94.6a-g
28a	Low <i>Pt</i> , Experimental 6	66.2-	0.8r-v	96.5abc
28b	High <i>Pt</i> , Experimental 6	66.6-	0.6uv	97.1A
29a	Low <i>Pt</i> , Experimental 7	67.2-	0.8q-v	96.6abc
29b	High <i>Pt</i> , Experimental 7	67.0-	0.7tuv	97.2a
30a	Low <i>Pt</i> , Wimmera	65.5-	2.1e-i	88.8m-q
30b	High <i>Pt</i> , Wimmera	65.1-	1.8g-m	89.8l-o

Impact of *Pratylenchus thornei* on Barley

Trial ID: NGA1501 – Barley NVT

Location:

Macalister

Trial Year:

2015

COMPLETE SPLIT-PLOT AOV <i>Hordeum vulgare</i> - Barley 7/09/2015 NDVI Ratio						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	239	0.126852				
R	3	0.002120	0.000707	3.004	0.0319	
A	1	0.002479	0.002479	7.514	0.0713	0.007
ERROR A	3	0.000990	0.000330			
B	29	0.073167	0.002523	10.724	0.0001	0.015
AB	29	0.007159	0.000247	1.049	0.4060	0.021
ERROR B	174	0.040936	0.000235			

COMPLETE SPLIT-PLOT AOV <i>Hordeum vulgare</i> - Barley 2/11/2015 YIELD t/ha						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	229	29.553310				
R	3	1.051107	0.350369	9.469	0.0001	
A	1	0.561559	0.561559	8.575	0.0611	0.11
ERROR A	3	0.196473	0.065491			
B	29	18.993426	0.654946	17.700	0.0001	0.19
AB	29	2.682322	0.092494	2.500	0.0002	0.27
ERROR B	164	6.068422	0.037003			

COMPLETE SPLIT-PLOT AOV <i>Hordeum vulgare</i> - Barley 4/02/2016 PROTEIN %						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	239	54.469625				
R	3	1.334458	0.444819	6.659	0.0003	
A	1	1.926042	1.926042	10.711	0.0467	0.2
ERROR A	3	0.539458	0.179819			
B	29	36.270875	1.250720	18.723	0.0001	0.3
AB	29	2.775208	0.095697	1.433	0.0831	0.4
ERROR B	174	11.623583	0.066802			

COMPLETE SPLIT-PLOT AOV <i>Hordeum vulgare</i> - Barley 4/02/2016 MOISTURE %						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	239	9.323333				
R	3	1.282333	0.427444	25.840	0.0001	
A	1	0.080667	0.080667	2.565	0.2075	0.1
ERROR A	3	0.094333	0.031444			
B	29	4.375833	0.150891	9.122	0.0001	0.1
AB	29	0.611833	0.021098	1.275	0.1718	0.2
ERROR B	174	2.878333	0.016542			

Impact of *Pratylenchus thornei* on Barley

Trial ID: NGA1501 – Barley NVT

Location:

Macalister

Trial Year:

2015

COMPLETE SPLIT-PLOT AOV <i>Hordeum vulgare</i> - Barley 4/02/2016 TEST WEIGHT kg/hL						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	239	287.591833				
R	3	54.069833	18.023278	47.024	0.0001	
A	1	0.228167	0.228167	0.889	0.4153	0.2
ERROR A	3	0.769833	0.256611			
B	29	150.946833	5.205063	13.580	0.0001	0.6
AB	29	14.886833	0.513339	1.339	0.1292	0.9
ERROR B	174	66.690333	0.383278			

COMPLETE SPLIT-PLOT AOV <i>Hordeum vulgare</i> - Barley 4/02/2016 SCREENING %						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	239	217.476358				
R	3	5.515848	1.838616	10.338	0.0001	
A	1	1.915307	1.915307	9.412	0.0546	0.2
ERROR A	3	0.610463	0.203488			
B	29	164.212208	5.662490	31.838	0.0001	0.4
AB	29	14.276293	0.492286	2.768	0.0001	0.6
ERROR B	174	30.946238	0.177852			

COMPLETE SPLIT-PLOT AOV <i>Hordeum vulgare</i> - Barley 4/02/2016 RETENTION %						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	239	10036.917585				
R	3	78.186948	26.062316	4.117	0.0075	
A	1	9.963375	9.963375	4.492	0.1243	0.6
ERROR A	3	6.654295	2.218098			
B	29	8298.295685	286.148127	45.205	0.0001	2.5
AB	29	542.386575	18.702985	2.955	0.0001	3.5
ERROR B	174	1101.430707	6.330062			

Rating Type

NDVI = Normalized difference vegetation index

Impact of *Pratylenchus thornei* on Barley

Trial ID: NGA1501 – Barley NVT Location: Macalister Trial Year: 2015

Pest Scientific Name:		<i>Pratylenchus thornei</i>
Pest Name:		Root-lesion Nematode
Crop Name:		Barley
Rating Date:		7/03/2016
Rating Type:		COUNT
Rating Unit:		Pt/g Soil
ARM Action Codes:		AS
Trt No.	Treatment	
1	Low Pt, Experimental 1	14.6a-d
2	Low Pt, Alestar	8.7d-g
3	Low Pt, Bass	12.9a-f
4	Low Pt, Commander	7.3efg
5	Low Pt, Compass	10.5b-g
6	Low Pt, Fathom	15.0a-d
7	Low Pt, Flinders	9.5c-g
8	Low Pt, Gairdner	11.2a-g
9	Low Pt, Granger	10.6b-g
10	Low Pt, Grout	13.5a-e
11	Low Pt, Hindmarsh	16.7abc
12	Low Pt, Rosalind	19.2a
13	Low Pt, Experimental 2	10.1b-g
14	Low Pt, Spartacus	17.9ab
15	Low Pt, Experimental 3	8.1d-g
16	Low Pt, La Trobe	16.5abc
17	Low Pt, Macquarie	13.2a-f
18	Low Pt, Maltstar	9.7c-g
19	Low Pt, Oxford	11.5a-g
20	Low Pt, Scope	12.4a-g
21	Low Pt, Shepherd	12.3a-g
22	Low Pt, Topstart	6.1g
23	Low Pt, Experimental 4	10.3b-g
24	Low Pt, Experimental 5	12.2a-g
25	Low Pt, Brewstart	11.9a-g
26	Low Pt, SY Rattler	9.3c-g
27	Low Pt, Westminster	9.8c-g
28	Low Pt, Experimental 6	10.6b-g
29	Low Pt, Experimental 7	6.5fg
30	Low Pt, Wimmera	14.1a-e
34	High Pt, Commander	19.3a
LSD P=		1.06t
CV=		21.39t
Treatment Prob.(F)=		0.0328

Means followed by same letter do not significantly differ (P=.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.

ARM Action Codes

AS = Automatic square root transformation of X+0.5