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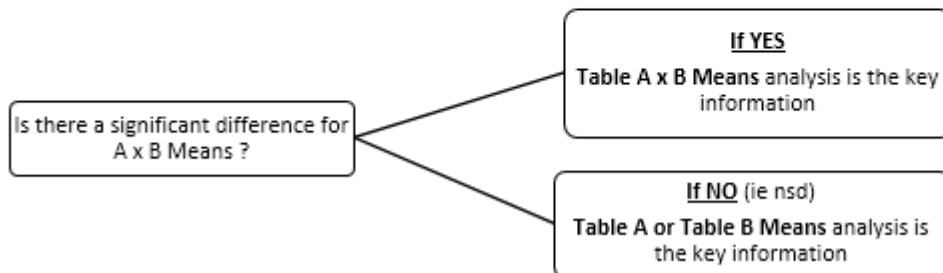
***Pratylenus thornei* Resistance Screen - Summer Monocotyledon Crops**

Trial ID: LB1540 Location: Macalister Trial Year: 2015
Investigator: Linda Bailey

Planting Date:	7/12/2015	Granulock Z Extra (at planting):	40kg/ha
Row Spacing:	40cm	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:	Not Harvested	BSES P:	24mg/kg (0-10cm) 10mg/kg (10-30cm)
Low <i>P thornei</i> (ex-Caparoi 2013):	2.4 Pt/g soil (18/08/2015)	Plot Size (Planted):	9 x 2 m (5 rows x 36cm)
High <i>P thornei</i> (ex-Strzelecki 2013):	29 Pt/g soil (18/08/2015)		

Trial designed and analysed as a Split Plot

	In Simple Terms
Table of A Means:	Mean of 'Nematode Population' performance with ALL 'Crop/Variety' treatments
Table of B Means:	Mean of 'Crop/Variety' performance with ALL 'Nematode Population' treatments
Table of A x B Means:	'Nematode Population' performance with EACH 'Crop/Variety' treatment



***Pratylenchus thornei* Resistance Screen Summer Monocotyledon Crops**

Trial ID: LB1540 Location: Macalister Trial Year: 2015

Scientific Pest Name					<i>Pratylenchus thornei</i>
Pest Name					Root-lesion Nematode
Rating Date		29/12/2015	23/02/2016	23/02/2016	7/03/2016
Rating Type		EMERGENCE	Dual EM 150cm	PAW (Wheat)	COUNT
Rating Unit		/m ²	Rating	mm	Pt/g soil
Plant-Evaluation Interval		22 DP1	78 DP1	78 DP1	91 DP1
ARM Action Codes		T1			AL
Trt No.	Treatment				
TABLE OF A MEANS (Nematode Population)					
1	Low RLN population	22-	186.3-	104.5-	2.1b
2	High RLN population	23-	187.8-	107.2-	12.9a
TABLE OF B MEANS (Crop/Variety)					
1	White French Millet	27b	192.5b	116.0b	7.6a
2	Japanese millet	32a	191.4bcd	114.0bcd	7.8a
3	Fumi8tor forage sorghum	25bc	181.0e	94.4e	4.0d
4	Sugar Graze forage sorghum	20d	182.2b-e	96.7b-e	4.6cd
5	BMR Octane forage sorghum	22cd	177.0e	86.9e	5.5a-d
6	Megasweet forage sorghum	20d	182.1b-e	96.5b-e	4.7cd
7	Betta Graze forage sorghum	19d	181.5de	95.3de	6.2abc
8	Panorama millet	20d	192.0bc	115.1bc	4.8cd
9	BMR Revolution forage sorghum	20d	181.6cde	95.6cde	7.0ab
10	Fallow	.	209.5a	148.1a	5.1bcd
TABLE OF A x B MEANS (Nematode Population x Crop/Variety)					
1	Low RLN population	29ab	188.6-	108.8-	4.0-
1	White French Millet				
2	High RLN population	25b-e	196.3-	123.2-	13.6-
1	White French Millet				
1	Low RLN population	34a	189.9-	111.1-	3.7-
2	Japanese millet				
2	High RLN population	29abc	192.9-	116.9-	15.3-
2	Japanese millet				
1	Low RLN population	24b-e	182.6-	97.4-	1.7-
3	Fumi8tor forage sorghum				
2	High RLN population	26bcd	179.4-	91.3-	8.4-
3	Fumi8tor forage sorghum				
1	Low RLN population	17fg	182.9-	97.9-	1.3-
4	Sugar Graze forage sorghum				
2	High RLN population	23c-f	181.6-	95.5-	12.3-
4	Sugar Graze forage sorghum				
1	Low RLN population	23c-f	179.1-	90.7-	2.0-
5	BMR Octane forage sorghum				
2	High RLN population	21def	175.0-	83.1-	13.3-
5	BMR Octane forage sorghum				
1	Low RLN population	18efg	179.7-	92.0-	1.6-
6	Megasweet forage sorghum				
2	High RLN population	21def	184.5-	101.0-	11.2-
6	Megasweet forage sorghum				
1	Low RLN population	20d-g	185.9-	103.7-	2.4-
7	Betta Graze forage sorghum				
2	High RLN population	18efg	177.0-	86.9-	14.1-
7	Betta Graze forage sorghum				

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Rating Unit		/m ²	Rating	mm	Pt/g soil
Plant-Evaluation Interval		22 DP1	78 DP1	78 DP1	91 DP1
ARM Action Codes		T1			AL
Trt No.	Treatment				
1	Low RLN population	14g	190.6-	112.6-	1.4-
8	Panorama millet				
2	High RLN population	26bcd	193.4-	117.7-	13.3-
8	Panorama millet				
1	Low RLN population	19efg	183.4-	98.9-	2.3-
9	BMR Revolution forage sorghum				
2	High RLN population	20d-g	179.9-	92.4-	18.3-
9	BMR Revolution forage sorghum				
1	Low RLN population	.	200.8-	131.7-	2.1-
10	Fallow				
2	High RLN population	.	218.2-	164.5-	11.3-
10	Fallow				

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

Rating Type

DUAL EM = Dual EM reading for soil moisture

PAW = Plant available water

ARM Action Codes

AL = Automatic log transformation of X+1

T1 = [1]/1.6

DAA = Days after Application

COMPLETE SPLIT-PLOT AOV						
29/12/2015						
COUNT /m ² 22 DP1 T1						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	71	2753.379991				
R	3	67.073568	22.357856	1.103	0.3572	
A	1	24.354384	24.354384	3.144	0.1743	2
ERROR A	3	23.236762	7.745587			
B	8	1184.385851	148.048231	7.302	0.0001	5
AB	8	481.065538	60.133192	2.966	0.0088	6
ERROR B	48	973.263889	20.276331			

***Pratylenchus thornei* Resistance Screen Summer Monocot Crops**

Trial ID: LB1540

Location: Macalister

Trial Year: 2015

COMPLETE SPLIT-PLOT AOV						
23/02/2016						
DUAL EM 150cm 78 DP1						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	79	15080.424875				
R	3	1436.088375	478.696125	4.432	0.0074	
A	1	43.365125	43.365125	0.614	0.4903	6.0
ERROR A	3	211.752375	70.584125			
B	9	6557.796125	728.644014	6.746	0.0001	10.4
AB	9	998.701125	110.966792	1.027	0.4307	14.7
ERROR B	54	5832.721750	108.013366			

COMPLETE SPLIT-PLOT AOV						
23/02/2016						
PAW mm 78 DP1						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	79	53534.878875				
R	3	5108.229375	1702.743125	4.447	0.0073	
A	1	153.735125	153.735125	0.612	0.4912	11.3
ERROR A	3	753.883375	251.294458			
B	9	23300.970125	2588.996681	6.762	0.0001	19.6
AB	9	3541.781125	393.531236	1.028	0.4304	27.7
ERROR B	54	20676.279750	382.894069			

COMPLETE SPLIT-PLOT AOV						
<i>Pratylenchus thornei</i> – Root-lesion Nematode						
7/03/2016						
COUNT Pt/g Soil 91 DP1 AL						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	79	10.579673				
R	3	0.604963	0.201654	12.237	0.0001	
A	1	8.327509	8.327509	627.361	0.0001	0.1t
ERROR A	3	0.039822	0.013274			
B	9	0.514002	0.057111	3.466	0.0019	0.1t
AB	9	0.203518	0.022613	1.372	0.2237	0.2t
ERROR B	54	0.889858	0.016479			