

Project: Wheat variety impact on *Pratylenchus thornei* populations
Trial: BB1410 (CAS Crown Rot trial)
District: Bellata
Initial population: ~6 Pt/g soil on 30/04/2014

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.

	Sampling date:			
T1	17/12/2014	8 cores/plot	0-30cm	Manual
T2	13/01/2015	3 cores/plot	0-90cm	Machine
T3	5/03/2015	8 cores/plot	0-30cm	Manual

Manual coring results

Evaluation of all 16 varieties

Variety	<i>Pratylenchus thornei</i> 17/12/2014 /g soil (0-30cm depth)
EGA Bellaroi	5.8 g
Suntop	6.4 fg
Viking	7.1 efg
Lancer	9.5 defg
Suntime	9.6 cdefg
Gauntlet	10.9 cdefg
Sunmate	11.9 cdefg
Spitfire	13.0 cdef
QT15046	13.1 cdef
EGA Gregory	15.1 bcde
Sunguard	16.4 bcd
LPB09-0515	16.7 bcd
Mitch	17.2 bcd
Sunco	20.5 bc
Dart	29.7 b
Strzelecki	97.2 a
P=	<0.01
LSD=	Log detransformed

Factorial of Variety x Crown rot inoculum

Factorial Analysis	<i>Pratylenchus thornei</i> 5/03/2015 /g soil (0-30cm depth)
Variety	
EGA Bellaroi	5.1 c
Suntop	7.0 bc
Spitfire	10.2 ab
Lancer	12.8 ab
Sunguard	14.9 a
EGA Gregory	16.4 a
P=	<0.01
LSD=	Log detransformed
Crown rot inoculum	
Nil	10.1
Added	10.5
P =	0.82
LSD =	nsd
Variety x Crown rot	
P =	0.65
LSD =	nsd

Variety x Crown rot showed:

Significant differences in resistance levels between varieties

No impact from addition of crown rot inoculum or change in variety reaction with crown rot addition

Machine cored factorial analysis of Variety x Depth

Factorial Analysis	<i>Pratylenchus thornei</i> 13/01/2015 /g soil (0-90cm depth)
Variety	
Gauntlet	5.6 e
Suntop	6.2 e
Spitfire	7.4 de
Lancer	11.8 cd
Sunguard	13.3 c
Dart	17.5 bc
Mitch	25.3 b
Strzelecki	78.4 a
	P = <0.01
	LSD = Log detransformed
Depth	
0-15cm	9.2 b
15-30cm	18.5 a
30-60cm	17.2 a
60-90cm	13.7 a
	P = <0.01
	LSD = Log detransformed
Variety x Depth	
	P = 1.00
	LSD = nsd

Variety x Depth showed:

Significant differences in resistance levels between varieties

Lower numbers of *P thornei* in 0-15cm than at other depths

No interaction between variety and depth ie varieties ranked similarly irrespective of depth