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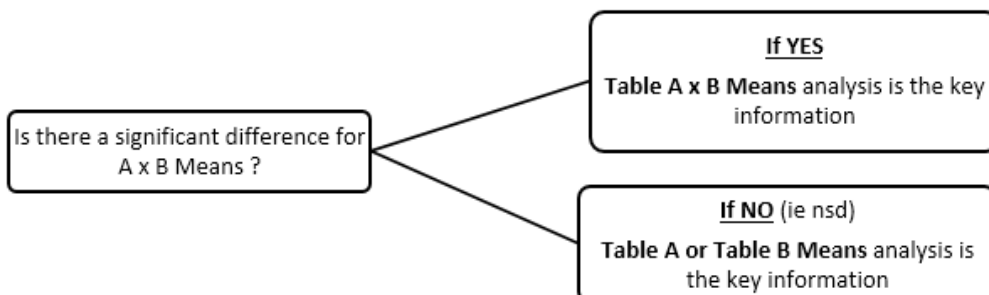
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Yield Impact from Spot Form Net Blotch

Trial ID: **BD1703** Location: **Blackville** Trial Year: **2017**
Investigator: **Branko Duric**

Objective:	To evaluate the yield impact from Spot Form of Net Blotch on range of Barley varieties		
Planting Date:	1/06/2017		
Barley Varieties:	Fathom, Scope, Compass, LaTrobe, GrangeR, SY Rattler & Hindmarsh		
Planting Equipment:	Small Plot Tyne Planter		
Row Spacing:	32cm		
Planting Depth:	3cm		
Target Plant Population:	90 Plants /m ²		
Application Code:	A	B	C
Application Date:	1/06/2017	15/08/2017	25/09/2017
Crop Stage at Application:	Seed Treatment applied prior to Planting	GS 31– 1 st Node	GS 39 - Flag Leaf
Harvest Date:	3/11/2017		
Keywords:	Spot Form Net Blotch, <i>Pyrenophora teres maculate</i> , Barley, cereal		

	In Simple Terms
Table of A Means:	Mean of 'Variety' performance with ALL 'Fungicide' treatments
Table of B Means:	Mean of 'Fungicide' performance with ALL 'Variety' treatments
Table of A x B Means:	'Variety performance with EACH 'Fungicide' treatment



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Trial Year: 2017

Crop Name				Barley					
Assessment Date				21/06/2017	3/11/2017	17/12/2017	17/12/2017	17/12/2017	17/12/2017
Assessment Type				EMERGENCE	YIELD	PROTEIN	TEST WEIGHT	SCREENING	RETENTION
Assessment Unit				/m ²	t/ha	%	kg/hL	%	%
Crop Stage Majority				12	99				
Plant-Evaluation Interval				20 DAP	155 DAP				
ARM Action Codes				T1	TY2		ET1	AL	ET7
Trt No.	Treatment	Product Rate	Appln. Code						
TABLE OF A MEANS (Variety)									
1	Fathom			95.4ab	3.80-	11.5cd	66.3bc	1.5b	90.0ab
2	Scope			90.2bc	3.28-	12.1b	65.4c	1.3b	90.5ab
3	Compass			100.2a	3.92-	11.4cd	66.9ab	0.7c	94.2a
4	LaTrobe			91.7bc	3.35-	12.7a	67.6a	3.3a	74.2c
5	GrangeR			95.1ab	3.45-	12.2ab	66.6ab	1.7b	90.2ab
6	SY Rattler			90.8bc	3.68-	11.2d	65.5c	2.9a	78.3c
8	Hindmarsh			95.7ab	3.36-	11.9bc	67.3ab	1.6b	86.8b
TABLE OF B MEANS (Fungicide)									
1	Untreated	-		90.1b	3.55-	11.9-	66.5-	2.1a	85.6-
2	Systiva	150ml/100kg	A	96.5a	3.49-	11.8-	66.5-	1.7b	87.0-
	Prosaro	300ml/ha	B, C						
TABLE OF A x B MEANS (Variety x Fungicide)									
1	Fathom			93.8-	3.89-	11.7-	66.6-	1.6de	90.3a
1a	Fathom			97.0-	3.71-	11.3-	66.0-	1.5ef	89.7ab
	Systiva	150ml/100 kg	A						
	Prosaro	300ml/ha	B, C						
2	Scope			87.5-	3.29-	12.3-	65.9-	1.2ef	91.9a
2a	Scope			92.8-	3.27-	12.0-	64.9-	1.4ef	89.5ab
	Systiva	150ml/100 kg	A						
	Prosaro	300ml/ha	B, C						
3	Compass			97.0-	3.99-	11.2-	67.0-	0.8f	93.8a
3a	Compass			103.3-	3.84-	11.7-	66.7-	0.7f	94.6a
	Systiva	150ml/100 kg	A						
	Prosaro	300ml/ha	B, C						
4	LaTrobe			89.2-	3.24-	12.8-	67.1-	3.8a	73.1d
4a	LaTrobe			94.2-	3.46-	12.6-	68.0-	2.8bc	75.3d
	Systiva	150ml/100 kg	A						
	Prosaro	300ml/ha	B, C						
5	GrangeR			97.5-	3.54-	12.2-	66.7-	1.7de	89.5ab
5a	GrangeR			92.7-	3.36-	12.2-	66.6-	1.7de	90.9a
	Systiva	150ml/100 kg	A						
	Prosaro	300ml/ha	B, C						
6	SY Rattler			83.5-	3.61-	11.1-	65.2-	3.4ab	77.1d
6a	SY Rattler			98.2-	3.75-	11.4-	65.8-	2.3cd	79.6cd
	Systiva	150ml/100 kg	A						
	Prosaro	300ml/ha	B, C						
8	Hindmarsh			87.8-	3.33-	12.0-	67.0-	1.8de	84.0bc
8a	Hindmarsh			103.5-	3.40-	11.8-	67.5-	1.3ef	89.7ab
	Systiva	150ml/100 kg	A						
	Prosaro	300ml/ha	B, C						

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

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FACTORIAL/POOLED ERROR AOV Barley 21/06/2017 EMERGENCE /m² 12 20 DAP T1						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	95	10088.489583				
R	5	129.552083	25.910417	0.291	0.9167	
A	7	1411.406250	201.629464	2.263	0.0381	7.7
B	1	981.760417	981.760417	11.018	0.0014	3.9
AB	7	882.822917	126.117560	1.415	0.2118	10.9
ERROR	75	6682.947917	89.105972			

FACTORIAL/POOLED ERROR AOV Barley 3/11/2017 YIELD t/ha 155 DAP TY2 2						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	81	40.802860				
R	5	12.981138	2.596228	7.192	0.0001	
A	7	4.985467	0.712210	1.973	0.0735	0.49
B	1	0.072364	0.072364	0.200	0.6559	0.25
AB	7	0.743456	0.106208	0.294	0.9537	0.69
ERROR	61	22.020434	0.360991			

Randomised Complete Block AOV Barley 17/12/2017 PROTEIN %					
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)
Total	76				
R	5	25.0294	5.00588		
A	6	15.4631	2.57718	5.90	0.0001
B	1	0.0357	0.03571	0.08	0.7759
AB	6	1.4813	0.24689	0.57	0.7562
ERROR	58	25.3313	0.43675		

Randomised Complete Block AOV Barley 17/12/2017 TEST WEIGHT kg/hL					
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)
Total	76				
R	5	25.3872	5.07745		
A	6	42.8557	7.14262	5.69	0.0001
B	1	0.0012	0.00115	0.00	0.9759
AB	6	7.2480	1.20800	0.96	0.4590
ERROR	58	72.8328	1.25574		

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Randomised Complete Block AOV Barley 17/12/2017 SCREENING % AL					
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)
Total	76				
R	5	5.2560	1.05121		
A	6	48.2612	8.04353	17.24	0.0000
B	1	2.6302	2.63018	5.64	0.0209
AB	6	3.8147	0.63578	1.36	0.2451
ERROR	58	27.0668	0.46667		

Randomised Complete Block (RCB) AOV Barley Multiple 17/12/2017 RETENTION % ET7					
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)
Total	76				
R	5	115.56	23.113		
A	6	3130.35	521.725	19.12	0.0000
B	1	39.00	39.001	1.43	0.2367
AB	6	103.02	17.170	0.63	0.7061
ERROR	58	1582.34	27.282		

Crop Stage Majority

12 = 2 leaves unfolded

Plant-Evaluation Interval

20 DAP = 1 HORVS 1/06/2017

155 DAP = 1 HORVS 1/06/2017

ARM Action Codes

ET1 = Excluded treatment 1

AL = Automatic log transformation of X+1

ET7 = Excluded treatment 7

T1 = ([C1]/4)/0.25

TY2 = 0.7142857*[C3]

DAP = Days after Planting

Application Description			
	A	B	C
Application Date:		15/08/2017	25/09/2017
Application Start Time:		9:15 AM	3:00 PM
Application Stop Time:		11:15 AM	5:00 PM
Application Method:	SEED TREATMENT	SPRAY	SPRAY
Application Timing:	AT PLANTING	GS 32	GS 39
Application Placement:		FOLIAR	FOLIAR
Air Temperature, Unit:		16.2 C	26.7 C
% Relative Humidity:		52	23.4
Wind Velocity, Unit:		1.5 m/s	2.2 m/s
Wind Direction:		NW	NW
Dew Presence (Y/N):		No	No
% Cloud Cover:		5	70

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Application Equipment			
	A	B	C
Operation Pressure, Unit:		300 kPa	300 kPa
Nozzle Type:		AIXR	AIXR
Nozzle Size:		110015	110015
Nozzle Spacing, Unit:		50 cm	50 cm
Boom Length, Unit:		4 m	4 m
Boom Height, Unit:		50 cm	50 cm
Ground Speed, Unit:		7.2 km/h	7.2 km/h
Spray Volume, Unit:		100 L/ha	100 L/ha