



Summary of barley disease phenotyping

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Total of 105 Australian disease screens!

Field

	DAF	DEDJTR	PBI	SARDI	CURTIN
LR	2014,16,17	2016,17	2015,16,17		
NFNB	2014,15,16,17	2015,16,17			2016
SFNB	2014,16,17	2015,16			
PM	2014,15,16,17	2015			2016
SB	2015,16,17				
SCALD		2015,16,17		2015,16,17	

Glasshouse

	DAF	DEDJTR	PBI	SARDI	CURTIN
LR			2015,16,17		
NFNB		2015,16,17			
SFNB	2017	2015,16			
PM					2016
SB					
SCALD				2015,16,17	

19 independent spreadsheets



Hugh Wallwork, Milica Grcic and Mark Butt
SARDI

Entry	Name	Pedigree/ gene	Selection	GID	Seedling Isolate 6	Seedling Isolate 8	Seedling Isolate 332a	Seedling Isolate 385								
-	Turk	Rrs1			R	MS	MS	R								
-	Atlas	Rrs2			MR	MR	S	S								
-	Atlas 46	Rrs1 + Rrs2			R	MR	S	R								
-	Osiris	Rh4+10+			R	R	R	S								
-	Sloop	Susceptible check			S	S	S	S								
1	5:ZIE14	NE89747/Zarjau/3/Rapidan//K-281/Skorokhod	ICB06.1706-0AP-5AP-0AP	400011591	RMR	R	R	SMS								
2	6:ZIE14	CWB117-77-9-7//Antares/Ky63-1294/3/CWB117-77-9-7//Hml-	ICB06.1784-0AP-2AP-0AP													
3	12:ZIE14	Sararood/5/GkOmega/4/Ci08887/Ci05761//Man/Ci02320/3/Alger/Ceres362-1-	ICB06.2156-0AP-3AP-0AP		ENTRY	ENTRY CD	DESIG	PEDIGREE	SELHIST	GID	type	Leaf rust	NB Mix	SFNB	P Mildew	
4	14:ZIE14	Zarjau/Regina	ICB06.1642-28AP-0AP-0AP		40	1:ZIC14	1:ZIC14	ARUPO/K8755//MORA/3	CBSS05M00084S-5	400010461	IBYT-HI	7	5.5	4	0	
5	15:ZIE14	Zarjau/Regina	ICB06.1642-31AP-0AP-0AP		41	2:ZIC14	2:ZIC14	BLLU/MAHIGAN	CBSS05M00370S-2	400010460	IBYT-HI	7.5	2.5	5	8	
6	1:ZIC14	ARUPO/K8755//MORA/3/SCARLETT	CBSS05M00084S-5M-0Y-0M-0A		42	3:ZIC14	3:ZIC14	CAPUL/6/P.STO/3/LBIRAI	CBSS05M00570S-1	400010459	IBYT-HI	7.5	6.5	6	9	
7	2:ZIC14	BLLU/MAHIGAN	CBSS05M00370S-2M-0Y-0M-0A		43	4:ZIC14	4:ZIC14	CABUYA/EX702-4-6/3/LE	CBSS04M00385T-C	400010184	IBYT-HI	8	3.5	7	9	
					44	5:ZIC14	5:ZIC14	P.STO/3/LBIRAN/UNA80/	CBSS04M00029S-2	400010183	IBYT-HI	9	4	5	8	
					45	6:ZIC14	6:ZIC14	SHENMAI NO.3/MSEL	CBSS03B00053S-0I	5779725	IBYT-HI	7.5	5	4	8	
					47	8:ZIC14	8:ZIC14	CHAMICO/M111	CBSS04Y00283S-2I	5779680	IBYT-HI	8.5	3	6	8	
					48	9:ZIC14	9:ZIC14	FNC1/3/LEGACY//PENCO	CBSS04Y00140S-6I	5779593	IBYT-HI	7.5	3.5	8	9	
									AN/UNA80/	CBSS04B00047S-0I	400010182	IBYT-HI	7.5	4.5	6	9
									96	CBSS04M00006S-7	400010181	IBYT-HI	7	4.5	8	9
									FRA/CLE169	CBSS05Y00014S-1:	400010180	IBYT-HI	7.5	2.5	4	9
1	CAIGE 2014 Intros	1	27	5:ZIE14	5:ZIE14	3+	3+	3+	3+	3+	3+	3+	3+	3+	3+	3+
2	CAIGE 2014 Intros	2	28	6:ZIE14	6:ZIE14	33+	3+	3+	3+	3+	33+	3+	3+	33+	3+	33+
3	CAIGE 2014 Intros	3	31	12:ZIE14	12:ZIE14	3+	3+	3+	3+	3+	3+	3+	3+	3+	3+	3+
4	CAIGE 2014 Intros	4	32	14:ZIE14	14:ZIE14	3+	3+	3+	3+	3+	3+	3+	3+	3+	3+	3+
5	CAIGE 2014 Intros	5	33	15:ZIE14	15:ZIE14	3+	3+	3+	3+	3+	3+	3+	3+	3+	3+	3+
6	CAIGE 2014 Intros	6	40	1:ZIC14	1:ZIC14	0;	;N	;N	0;N	;N	;N	3+	3+	3+	3+	3+
7	CAIGE 2014 Intros	7	41	2:ZIC14	2:ZIC14	;12+C	;1=N	;12	;1-N	;NN	3+	3+	3+	3+	3+	3+
8	CAIGE 2014 Intros	8	42	3:ZIC14	3:ZIC14	;N	;N	;N	;N	;N	3+	3+	3+	3+	3+	3+
9	CAIGE 2014 Intros	9	43	4:ZIC14	4:ZIC14	3+	3+	3+	3+	3+	3+	3+	3+	3+	3+	3+
10	CAIGE 2014 Intros	10	44	5:ZIC14	5:ZIC14	;1+N	;N	;12-	;N	;1+N	3+	3+	3+	3+	3+	3+
11	CAIGE 2014 Intros	11	45	6:ZIC14	6:ZIC14	;1+CN	;1=CN	;1=CN	;1+CN	;N	33	33	33	33	33	33

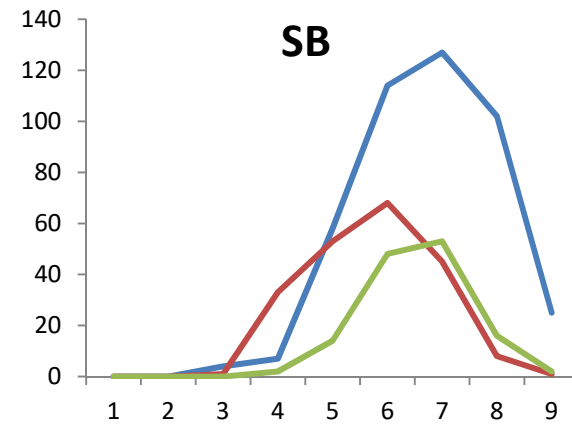
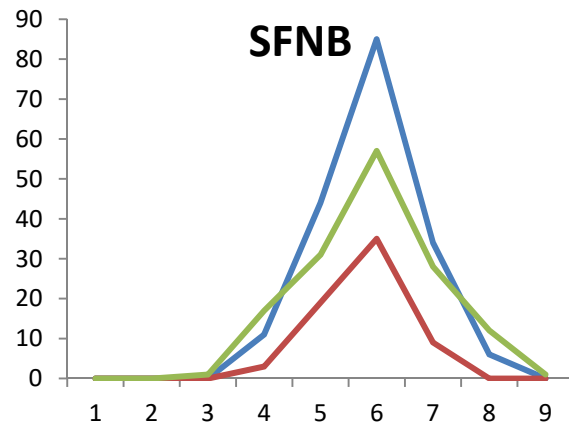
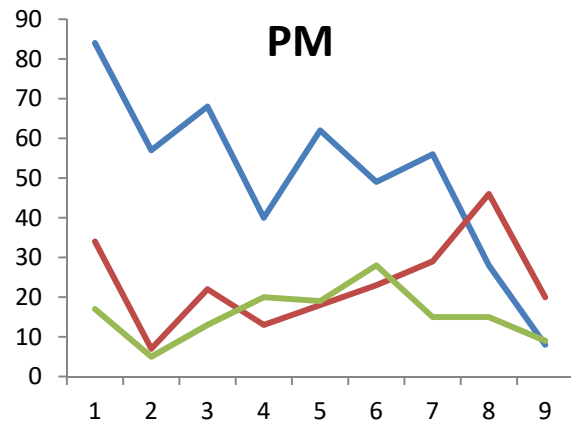
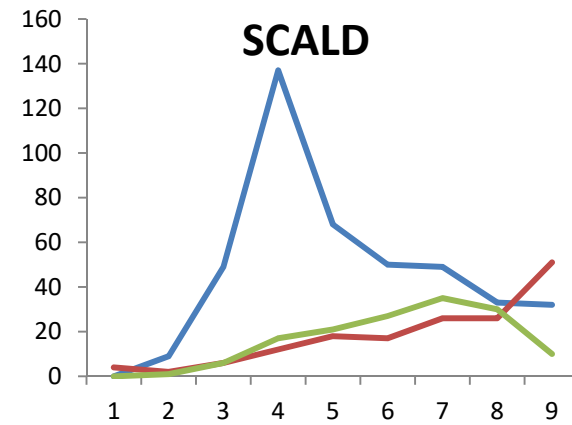
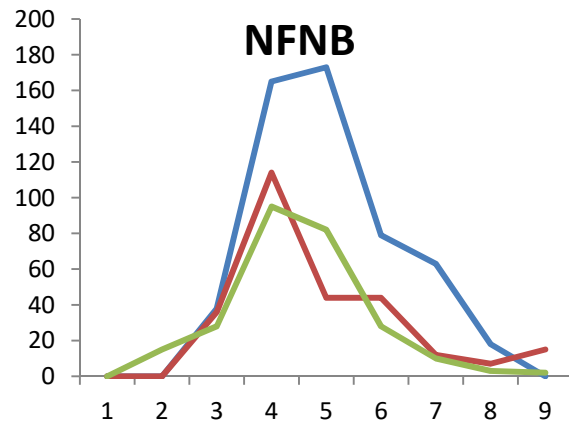
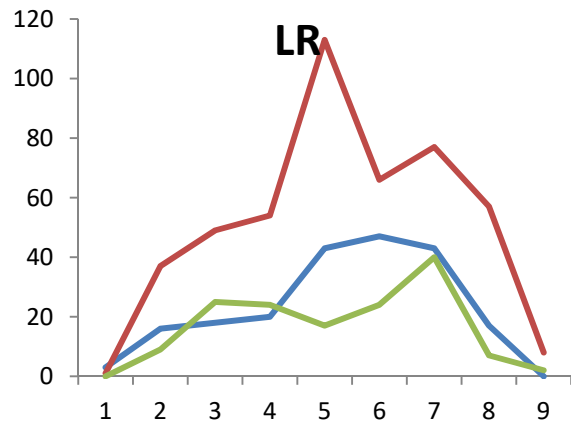




- Compiling barley disease screening data
- Standardising naming conventions
- Converting scores to 1-9



- 1162 lines with phenotype information thus far
 - LR 1036
 - NFNB 747
 - PM 687
 - SB 580
 - SCALD 660
 - SFND 596



— High Input — Landrace — Low Input



- Confirm environments/pathotypes with collaborators
- Reduce to unique set of GIDs
- Populate pedigree information



- Make standardised data available!
- Identify lines that may carry resistances to multiple diseases