

**Seedling reaction and field plot rust severity and response of entries of the 2007 Hard Red Spring Wheat Uniform Regional Nursery to selected races and to bulks of *Puccinia triticina* (Jim Kolmer, Cereal Disease Laboratory).**

Entry	Name	Gene Postulation	Infection types produced by NA race								Field Rust Ratings		
			THBJ	TGBG	MHDS	MBJJ	TCTD	KFBJ	MFPS	MBRJ	Morris 7/16	Crookston 7/18	
1	Marquis	-	3+	3+;	3+	3+	3+	3+	3+	3+	3+	60S	80S
2	Chris	Lr13, Lr34	3+	3	32+	32+	3	32+	32+	3+	3+	20MS	60MS
3	2375	Lr1, Lr10	3+	3+	3+	32+	;2-	0;	3+	3+	3+	40S	50MS
4	Verde	Lr16	;2+	;12-	32+	32+;	;	;	12	;2-	;	20MS	10MR
5	Keene	"+"	;	;2+3	0	0;	0;	;1-	0;	0;	;	40S	70MS
6	SD3942	"+"	;	;	;	0;	;	;	;	;	;	10R	TR
7	SD3943	"+"	;	;	;	0;	0;	;	;	;	;	5R-MR	TR
8	SD3944	"+"	;	;	;	0;	0;	;	;	;	;	--	TR
9	SD3948	"+"	;	;	0;	;	;	;	;	2+3	;	10MS-S	TR
10	SD3956	Lr16, Lr23	;22+	;22+	0;	0;	;	;	0;	0;	;	--	40MS
11	ND04/3-20	Lr21	;12-	;2	0;	0;	;	;	0;	0;	;	--	TR
12	ND04/3-21	Lr21	;12-	;2	0;	0;	0;	;	0;	0;	;	TR-MS	TR
13	ND05/1-1	Lr21	;2-	;2-	0;	0;	0;	;	0;	0;	;	TR-MR	TR
14	ND05/1-2	Lr21	;12-	;2-	0;	;	0;	0;	;	0;1;	;	TR-MR	TR
15	ND05/1-3	Lr21	;2-	;	0;	0;	0;	;	0;	0;	;	R-MR	TR
16	NDSW0430	"+"	;	;	0;	0;	0;	0;	0;	0;	;	TR	TR
17	NDSW0449	"+"	;	;	0;	0;	0;	;1-	0;	0;	;	60S	80S
18	NDSW0481	Lr16, Lr23	;12-	;1+	;	;12	;	;	1	;1	;	20MS-S	30MR-MS
19	NDSW0601	Lr16, Lr23	;12+	;1	;	;23/;	0;	0;	;1	;	;	10MS-30S	10-20MR
20	MN02255	Lr21	;12	;2-	0;	;	0;	0;	;	;	;	TR	TR-5MR

21	MN03358-4	Lr10, Lr14a +	;123	;	3+	3+	0;	3	;1/3+	3+	5MS-S	10MR
22	MN03119-4	"+"	;12-	;12-	;	;	0;	;1-	;1-	;1-	5MR-MS	5MR
23	MN03196	Lr1, Lr16, Lr23	32+	32+	;23	;2	0;	;	;1+	;22+	5MR-MS	TR
24	MN03308-4	Lr1, Lr14a, +	32;	;	3+	;	32+	0;	33+	;1	5Mr-MS	10MR
25	MT 0415	Lr2a, Lr16	3+;	2+3	0;	0;	22+	;1-	0;	0;	60S	20-60S
26	MT 0516	Lr1	3+	3+	3+	3+	3+	;1+	3+	3+	80S	70S
27	WA008013	Lr24, Lr26	;2	;	;	;	;	3+	;	;12	60S	10-20MS
28	BW357	Lr16	;2+3	2+3	32+	;2+	;1-	;1	;1	1+2	60S	40MS
29	BW362	Lr21	;	;	;2-	0;	;	;	;	;1	10MR-R	Tr
30	ES95	Lr10	3+	3+	32+	32+;	;	3+	33+;	3+	60S	50MS
31	BW873	Lr16	;2+	2+	;23	;1-	;	0;	;12-	1+2	10MS	10MR
32	00S0211-29-4	Lr16	2+	;12+	2+	3	2+3	;1-	2+;	12	10MS	5MR
33	00S0291-3	"+"	;1	;1-	;	;	;	;1-	;	;1-	10MR-MS	TR
34	00S0292-14	"+"	;1-	-	;	;2	;	;	;12-	:12-	30MS-S	TR-5MR
35	01S0042-10	"+"	;1-	;	;	;	;	;	;	;	10MR-MS	TR-5MR
36	CA905-749	"+"	;1+	2+	;	;2-	22+	;1-	;	;	20MS-S TMR-MS	TR-5MR
37	CA905-750	"+"	;12	;12-	;	0;	22+	;1-	;	0	5MS-30MS	5-10 MR-MS
38	CA905-776	"+"	;1-	;12-	;	0;	;	;1-	;	;	TR-5MR-MS	TR
39	BZ903-513W	-	3+	3+;	3+	3+	33+	3+	3+	3+	80S	80S
40	06MSP 18	Lr24	;	;1-	;	3	0;	3+	3+	;	5MR-MS	10MR-MS
41	06MSP 3	"+"	;1-	;	;	;1-	;	;	;	;1-	20S-MS	10MR

Lr genes postulated on basis of infection types and pedigrees

"+" = all leaf rust isolates avirulent - not able to postulate Lr genes

"-" leaf rust genes not present

+ = additional Lr genes present

TR = trace level of pustules