Table 6

Seedling reaction of entries of the 1999 Uniform Northern Regional Performance Nursery to selected isolates of leaf rust.											
Cereal Disease Laboratory, USDA-ARS, U. of MN., St. Paul, MN.											Stillwater, OK*
		Leaf Rust Isolate									
#	Sel No.	TDBM	TCLH	PLLM	TLLC	MGBM	PNMR	KDBM	PLMR	LR GENE?	
1	CI1442	S	S	S	S	S	S	S	S	None	S
2	Roughrider	S	S	S	S	S	S	S	S	None	S
3	Abilene	S	-	;1-	;1-	;1-	S	S	;	24	MS
4	Nekota	S	21CN	;12	S	S	S	S	;1,S	+	S
5	ND9257	2CN	;C	;1C	;1C	S	;12C	1C	;1C	10,16	S
6	ND9304	S	S	S	S	S	S	S	S	None	S
7	ND9419	S	S	S	S	S	S	S	S	None	S
8	ND9460	S	;C	;	;1-C	S	;12C	S	;1-C	10	S
9	ND9560	1C	1CN	1CN	1C	S	12C	-	1C	16	S
10	SD95218	S	S	2	1C	S	X	S	2	+	S
11	SD94149	S	;+1-C	;1C	;1-C	;1-	S	S	;1-C	10,24	MS
12	SD93267	S	S	S	1C	S	X	S	S	+	S
13	SD95203	S	S	S	S	S	S	S	S	None	S
14	SD94241	12C	1C	1C	12CN	1C	1	1CN	1C	16,+	MS
15	NE94654	1C	12CN	;1C	1C	S,;1-C	1C	1C	12CN	16,+	MS
16	NE94589	S	S	2	2	S	-	S	;1-C,S	+	S
17	NE95473	S	;1C	;1C	;1-C	S,;1-C	S	S	S,;1-C	10,seg 24	MS
18	NE95553	2CN,S	1CN,S	;1C,2	;1-C	S,;1-C	X	2	;1-2C	seg 16,+	S
19	NE96435	S	S	2C	2	S	;1C,S	12C	2C	+	MS
20	NE95510	1CN	;+C	;1C	;1C	;	;1C	;+1-C	;	10,26	MS
21	NE96632	S	S	S	S	S	1?	S	S	None	S
22	NE96649	1CN	1CN,;+C	;1C	;1-C	;1,S	S,;1	;+1-C	0;,1C	seg 10,24,26	MS
23	NW97S195	2CN	1CN	1CN	1CN	S	1C	0	1CN	1,16	MS
24	N96L1226	S	;+C	0	;C	;1	;1C	0	0	1,10,24,2a	MS
25	N96L1229	S	;+C	;1-C	;C	;1-C	S,;1C-	;1-C	;1-C	10,24,+	MS
26	XH1888	;+1C	;C	;	;C	;1-C	;1-C	;1-C	;1-C	10,26	MR
27	XH9806	;+1C	;+C	;	;	;	;	;	;1-C	10,26	MS
28	NH9803	S	S	0;	S	S	S	S	S	+	S
29	T194	S	X	23C	S	X	S	23C	S	+	S

*Stillwater test: Leaf rust reaction of seedlings tested during the 1998-99 season wasdetermined using a mixture of P. triticina urediospores collected in 98May. This was a bulk spore collection obtained from seven hard red winterwheat cultivars (Big Dawg, Chisholm, Custer, Jagger, Karl 92, 2137, and 2174) growing at three locations (Apache, Kingfisher, and Lahoma) in Oklahoma.

				LR GENES							
			SET 1	1	2A	2C	3				
			SET 2	9	16	24	26				
			SET 3	3KA	11	17	30				
			SET 4	10	18	21	23				
			CODE	**REACTION***							
			B	L	L	L	L				
			C	L	L	L	H				
			D	L	L	H	L				
			F	L	L	H	H				
			G	L	H	L	L				
			H	L	H	L	H				
			J	L	H	H	L				
			K	L	H	H	H				
			L	H	L	L	L				
			M	H	L	L	H				
			N	H	L	H	L				
			P	H	L	H	H				
			Q	H	H	L	L				
			R	H	H	L	H				
			S	H	H	H	L				
			T	H	H	H	H				
				L = LOW INFECTION TYPE							
				H = HIGH INFECTION TYPE							