

Table 14. Reaction of the 1996 Southern Regional Performance Nursery to Leaf Rust, Soilborne Wheat Mosaic Virus (SBWMV), and Wheat Spindle Streak Mosaic Virus (WSSMV). Data provided by Bob Hunger & John Sherwood, Plant Pathology Dept., Oklahoma State University, Stillwater, OK.

Entry/Seln. No.	Leaf rust <sup>a</sup> (seedling-grnhse)			SBWMV/WSSMV reaction		
	Rep 1	Rep 2	Rep 3	Visual (1-4) <sup>a</sup>	ELISA + sd <sup>b</sup> SBWMV	WSSMV
01	CI1442 . . . . .	S	S	3.2	+	+
02	CI13996 . . . . .	S	S	3.5	+	+
03	PI495594 . . . . .	S	S	3.3	+	+
04	KS93U206 . . . . .	SEG-R	R	1.8	+	+
05	OK91P648 . . . . .	S	MS	1.0	±	±
06	OK93P735 . . . . .	R	MS	1.0	+	+
07	OK93P634 . . . . .	R	MR	1.6	+	+
08	OK92403 . . . . .	MS	MS	1.0	-	-
09	TX91D6913 . . . . .	S	S	1.0	-	±
10	TX91D6991 . . . . .	S	S	1.0	-	+
11	TX92V3108 . . . . .	S	MS	3.7	+	±
12	HBI0531-A2 . . . . .	S	S	3.8	+	+
13	TX93V5919 . . . . .	S	S	1.0	±	±
14	TX93V5922 . . . . .	S	MS	4.0	+	±
15	TX93V4927 . . . . .	MS	MS	4.0	+	-
16	TX92V2519 . . . . .	S	MS	1.6	±	-
17	TXGH12588-105 . . . . .	S	-	3.7	+	+
18	CO910424 . . . . .	S	MS	1.0	-	+
19	CO910748 . . . . .	S	S	4.0	+	+
20	KS91H153-2 . . . . .	R	MS	3.3	+	+
21	KS941064-3 . . . . .	S	MS	1.0	±	+
22	KS941064-6 . . . . .	S	SEG-S	1.0	+	+
23	KS940935-7-2-1 . . . . .	MS	MS	1.0	-	-
24	KS940935-125-5-2 . . . . .	S	S	1.0	±	+
25	KS85W663-11-6-MB . . . . .	S	MS	1.0	+	-
26	KS84W963-9-39-3-MBX . . . . .	SEG-R	SEG-R	1.0	-	-
27	NE90476 . . . . .	MS	MS	3.8	+	+
28	NE92458 . . . . .	MS	S	1.2	±	+
29	NE92646 . . . . .	MS	MS	1.3	±	+
30	NE93405 . . . . .	MR	MR	3.2	+	+
31	NE93427 . . . . .	MS	MR	1.0	±	+
32	WX92-0408 . . . . .	MR	R	1.0	±	+
33	W93-460 . . . . .	S	MS	1.0	+	-
34	T702 . . . . .	S	S	1.0	+	+
35	T834 . . . . .	S	S	1.0	+	-
36	T812 . . . . .	S	MS	3.0	+	+
37	T861 . . . . .	S	S	2.8	+	+
38	T89 . . . . .	SEG-R	SEG-R	2.0	+	+
39	G1878 . . . . .	S	S	1.0	-	+

See following page for methodology.

Table 14. Continued.

\*Reaction to leaf rust was determined following inoculation of seedlings with a mixture of *Puccinia recondita* f. sp. *tritici* races collected in Oklahoma in 1995. The avirulence/virulence formula of this mixture of races on a set of single-gene differentials plus selected cultivars was: 9 19 26 SXL / 1 2a 2c 3 3ka 11 16 17 24 30 DNE CTY. Reactions were obtained using Stakeman's rating system (USDA Bull. #E617, 1962, 53 pp) and translated for reporting to the following scale:

S=susceptible (Stakeman's 3 3- 3+ 4 3+c)  
 MS=moderately susceptible (Stakeman's X3; 3= 3=c 3-c 3-n 3c 3n)  
 MR=moderately resistant (Stakeman's X;3= X;3- X;3=c X;3-n X;3-c 3=n)  
 R=resistant (Stakeman's 0 ; 1 X;3=n X;1)

\*ELISA=enzyme linked immunosorbent assay. Values from ELISA are indicative of the presence or absence of the virus in tissue and should not be used exclusively to determine reaction (i.e., resistance or susceptibility) to SBWMV or WSSMV. For additional explanation of the use ELISA in evaluating virus reaction, see Hunger et al. 1991. Crop Science 31:900-905. Samples from three reps with 3 wells/per rep were evaluated by ELISA for SBWMV. For WSSMV, one sample (one rep) with 3 wells was evaluated. Presence of SBWMV or WSSMV based on values from ELISA are reported as follows:

- = values from ELISA indicate no virus detected;  
 ± = values from ELISA indicate little if any virus detected;  
 + = values from ELISA indicate virus detected.

\*Three reps of each entry were rated for SBWMV/WSSMV symptoms twice in the spring. Thus, values are the average of six ratings/entry where: 1=no mosaic, no stunting; 3=moderate mosaic and/or moderate stunting; 2=slight mosaic and/or slight stunting; 4=severe mosaic and/or severe stunting.