

Stem rust testing was accomplished by USDA-ARS, Yue Jin, (St. Paul, MN) with Kenya nursery observations contributed by David Marshall (Raleigh, NC).

Gene postulation was tentative and accomplished for genes effective against TTKSK (Ug99) only. No attempt was made to postulate other Sr genes.

Users are advised to confirm with available markers.

Repeated screening was done based on preliminary screening with race TTKSK. Lines missing or suspected to be resistant were repeated with 3 races of the TTKS lineage: TTKSK (Ug99), TTKST (Sr24 virulence), and TTTSK (Sr36 virulence) and TRTT (a race with 1A.1R virulence, not in the TTKS lineage).

Notes - St. Paul field test: 1. Field nursery at St. Paul was inoculated with a bulk of races QFCS, QTHJ, RCRS, RKQQ, TPMK. 2. "/" denotes mixture, predominant type listed first. 3. BIN = black internode, an indication of Sr2. 4. PSC = pseudo black chaff, an indication of Sr2

Avirulence/virulence formula of stem rust races used in screening:

race	Avirulence	Virulence
QFCS	6 7b 9b 9e 11 24 30 31 36 38 Tmp 1A.1R	5 8a 9a 9d 9g 10 17 21 McN
QTHJ	7b 9a 9e 24 30 31 36 Tmp 1A.1R	5 6 8a 9b 9d 9g 10 11 17 21 38 McN
RCRS	6 8a 9e 11 24 30 31 Tmp 1A.1R	5 7b 9a 9b 9d 9g 10 17 21 38 McN
RKQQ	9e 10 11 17 24 30 31 38 Tmp 1A.1R	5 6 7b 8a 9a 9b 9d 9g 21 McN
TPMK	6 9a 9b 24 30 31 38 1A.1R	5 7b 8a 9a 9d 9e 9g 10 11 17 21 36 Tmp McN
TTTT	24 31 1A.1R	5 6 7b 8a 9a 9b 9d 9e 9g 10 11 17 21 30 36 38 McN
TTKSK	24 36 Tmp 1A.1R	5 6 7b 8a 9a 9b 9d 9e 9g 10 11 17 21 30 31 38 McN
TTKST	36 Tmp 1A.1R	5 6 7b 8a 9a 9b 9d 9e 9g 10 11 17 21 24 30 31 38 McN
TTTSK	24 Tmp 1A.1R	5 6 7b 8a 9a 9b 9d 9e 9g 10 11 17 21 30 31 36 38 McN
TTRT	8a 24 31	5 6 7b 9a 9b 9d 9e 9g 10 11 17 21 30 36 38 McN 1A.1R