Pers.: Pers.), while being moderately resistant to the races of stripe rust (caused by *Puccinia striiformis* Westend.) observed in Texas in 1987 and 1988. While 2555 is susceptible to powdery mildew (caused by *Erysiphe graminis* DC.), it has demonstrated a higher level of resistance than that of S76, and progression of the disease up the plant is slow.

In the field, 2555 has demonstrated tolerance to the most common organisms that cause leaf blights, including septoria tritici blotch (caused by *Septoria tritici* Roberge in Desmaz.), septoria nodorum blotch [caused by *Phaeosphaeria nodorum* (E. Müller) Hedjaroude], and tan spot [caused by *Pyrenophora tritici-repentis* (Died.) Drechs.]. It has demonstrated excellent resistance to both soil-borne mosaic virus and wheat spindle-streak mosaic virus. Pioneer 2555 also seems to have a very good tolerance to wheat streak mosaic virus, as observed in the field in 1988.

Pioneer 2555 has been susceptible to biotypes A, B, C, D, and E of Hessian fly (*Mayetiola destructor* Say) in testing conducted by the USDA Entomology Laboratory at Purdue University, and was therefore not described as carrying resistance for Hessian fly in Pioneer's application for Plant Variety Protection. Since that time, however, 2555 has demonstrated excellent field resistance to the prevalent biotypes of Hessian fly in the Southeast. The genetics of the source of this resistance are currently unknown.

Pioneer 2555 was developed from a cross between Burley 49 and Tobacco Introduction 1406. The initial cross was followed by two crosses to 'Burley 21' (2). Following selection on an individual-plant basis for six generations, seed were pooled and designated as GR 141 in the F7 generation. TN 90 was released in the F11 generation, following the final cross.

TN 90 has high resistance to tobacco mosaic virus (TMV); tobacco vein mottling virus (TVMV); black root rot, caused by *Thielaviopsis basicola* (Berk. & Broome) Ferraris; and wildfire, caused by *Pseudomonas tabaci* (Wolf & Foster). It has medium-high resistance to tobacco etch virus (TEV) and medium resistance to Race 0 and Race 1 of black shank, caused by *Phytophthora nicotianae* (Breda de Haan) var. *parasitica* (Dastur) G.M. Waterhouse. Resistance to TMVM and TEV was derived from Tobacco Introduction 1406. Burley 49 was the source of resistance to TMV, black root rot, wildfire, and black shank; Burley 49's resistance to these four pathogens is shorter than TN 86. It matures =7 d later than MS KY 100, PI 543792) was developed by the Tennessee Agricultural Experiment Station and released in 1990 because of its multiple disease resistance and high yield. TN 90, which was tested prior to release as GR 141, is a sister line to 'TN 86' (4). TN 90 was developed from a cross between 'Burley 49' (3) and PVY-202, a sister to breeding line GR 107 (1) that was developed from a cross between Burley 49 and Tobacco Introduction 1406. The initial cross was followed by two crosses to 'Burley 21' (2). Following selection on an individual-plant basis for six generations, seed were pooled and designated as GR 141 in the F7 generation. TN 90 was released in the F11 generation, following the final cross.

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The soft wheat milling and baking processes yield an excellent, being equal to or better than many soft winter wheat cultivars, and being similar to the University of Tennessee variety Caldwell for most quality characteristics.

The generation sequence of seed production will be breeder, foundation, registered, and certified. It is under the Plant Variety Protection Act (PVP no. 8700011). Breeder seed is maintained by Hi-Bred International, Inc., Department of Cereal Seed Breeding, Route 1, Box 297A, Windfall, IN 46076.

M. M. IWIG,* C. HAYWARD, B. CLARKSON, B. IWIG, AND B. EDGE (1)

References and Notes

1. M. M. Iwig, Pioneer Hi-Bred Int., Inc., 7301 NW 120th St., Des Moines, IA 50131-0085; C. Hayward, Pioneer Hi-Bred Int., Inc., 1900 13th St., Hutchinson, KS 67501; B. Clarkson, Pioneer Hi-Bred Int., Inc., 297A, Windfall, IN 46076; B. Iwig, Pioneer Hi-Bred Int., Inc., 867, Napoleon, OH 43545; and B. Edge, Pioneer Hi-Bred Int., Inc., Box 181-B, St. Matthews, SC 29135. Registration was granted Oct. 1990. *Corresponding author.