Breeders seed will be maintained by the Michigan Foundation Seed Association, 2905 Jolly Rd., Mason, MI 48854. Seed production under certification will proceed from breeder through foundation and certified classes.

**REGISTRATION OF DIPLOMAT PERENNIAL RYEGRASS**
(Reg. No. 48)

K. J. McVeigh, W. K. Dickson, F. B. Ledeboer, and C. R. Funk

'DIPLOMAT' perennial ryegrass (*Lolium perenne* L.) is a 26-clone synthetic cultivar developed by Lofts Pedigreed Seed, Inc. from germplasm obtained from the New Jersey Agric. Exp. Stn. The parental clones were selected from a population of turf-type perennial ryegrasses, which included derivatives of clones selected in old turf areas in the northeastern U. S. and progenies of intercrosses between certain of these clones. The first certified seed of this cultivar was harvested in 1976. Lofts Syn D was the experimental designation of Diplomat.

Diplomat is an attractive, moderately dark green, turf-type cultivar that produces a leafy, persistent turf of greater density, finer texture and a slower rate of vertical growth than many other perennial ryegrasses. Its disease resistance is characterized by moderately good resistance to both the late fall and winter brown blight disease incited by *Helminthosporium siccans* Drechsler and the large brown patch disease incited by *Rhzoctonia solani* Kuhn. Diplomat has good seeding vigor and establishes well on a wide range of soils. Like other perennial ryegrasses, it performs best in a cool, moist, maritime climate or during cool, moist seasons. Summer performance can be expected to be only moderately good in areas with hot, humid summers.

Diplomat has better mowing qualities than perennial ryegrasses, and is comparable to the most available turf-type ryegrasses. Diplomat is well suited for overseeding of dormant bermudagrass (*Cynodon dactylon* L. Pers. f. sp. *Bermudiana*) golf greens, tees, fairways and lawns.

None of the parental clones of Diplomat were flowering clones. Flowering clones were not selected as a factor for fluorescent seedlings, and occur approximately once in 30000 seedlings within the cultivar indicates consistent seed propagation. Diplomat is limited to increase from breeder seed — one each of foundation and certified.

Breeders seed will be maintained by Lofts Pedigreed Seed, Inc., with the cooperation of the New Jersey Agric. Exp. Stn., with the cooperation of the New Jersey Agric. Exp. Stn.

United States Plant Variety Protection Certificate No. 7400055 has been issued for Diplomat.

---

**REGISTRATION OF DOWLING SOYBEANS**
(Reg. No. 256)

J. P. Craigmiles, E. E. Hartwig, and J. W. Sij

'DOWLING' soybeans (*Glycine max* (L.) Merr.) originated as an F₁ line developed from a bulk population of 'Semmes' × PI 200492. The cross was made at Stoneville, Mississippi. The F₁ and F₂ populations were grown at Stoneville. F₁ and F₂ bulk populations were grown at Beaumont, Texas, on low-laying, slowly drained clay. Semmes contributed adaptation to the low-growing, slowly drained clay, while PI 200492 contributed later maturity, more vigorous growth, and resistance to soybean rust (*Phakopsora pachyrhizi* Syd.). Dowling was identified as T573-16 prior to release. It is classified as group VIII maturity, averaging 2 days later in maturity than 'Cobb' at Beaumont. Dowling's area of best adaptation is considered to be the prairie soils of the Gulf Coast.

Dowling has white flowers, grey pubescence, and tan pod walls. Seeds are dull yellow with buff hilum and an average 14g/100 seeds. It is resistant to phytophthora rot (*Phytophthora megasperma* Drechs. var. *sojae*) A. A. Hildeb., bacterial pustule (*Xanthomonas phaseoli* (E. F. Smith) Dows. var. *sojensis* (Hedges) Starr & Burkh.), bacterial leaf blight (*Pseudomonas tabaci* (Wolf & Foster) F. L. Stevens, target spot (*Corynespora cassicola* (Berk. & Curt.) Wei), and moderately resistant to the Taiwan strain of soybean rust. Dowling is susceptible to the two root-knot nematode species (*Meloidogyne incognita* (Kofoid & White) Chitwood and *M. arenaria*), and to the soybean cyst nematode (*Heterodera glycines* Ichinohe). Dowling matures in 113 days.

Dowling has been issued for Diplomat.

---

**REGISTRATION OF RALL WHEAT**
(Reg. No. 605)


'RAIL', CI 17578, is a hard red winter wheat (*Triticum L. em Thell*). which was developed from Federal personnel at Stillwater, Oklahoma and released in 1976. Rall resulted from a single plant selection from 'Scout'. The plant selection leading to Rall was made at the Oklahoma Agricultural Experiment Station in Oklahoma tests since 1973. The cultivar has a useful level of tolerance to WSMV, a disease that frequently causes serious damage in the western part of the Hard Red Winter Wheat Region.

Rall was evaluated as Oklahoma selection OK 66V2629 in the Southern Regional Performance Nursery in 1973-74; and in the regional preliminary group VIII nursery in 1974 and in the regional uniform group VIII nursery in 1976. In Oklahoma tests during the past 5 years (1973-77), Rail has shown a useful level of tolerance to WSMV and field tests suggest it has above average drought tolerance. Rall is similar to 'Scout' in protein content, agronomic and quality characteristics. It appears to be a weaker straw than Scout 66. Like Scout, it is resistant to leaf rust (*Puccinia recondita R. E. Eriks.*), stem rust (*Puccinia graminis Pers. f. sp. *Triticum*) and powdery mildew (*Erysiphe graminis* E. Henn.), and to the soybean rust (*Phakopsora pachyrhizi* Syd.) and to the soybean cyst nematode (*Heterodera glycines* Ich.) 1094 CROP SCIENCE, VOL. 18, NOVEMBER-DECEMBER 1978