Registration of Crop Cultivars

REGISTRATION OF CULBERT FLAX1
(Reg. No. 32)
V. E. Comstock and J. H. Ford2

'CULBERT' flax (Linum usitatissimum L.), CI 2776, was developed at the Minnesota Agric. Exp. Stn., St. Paul in cooperation with the ARS, USDA. Culbert, released in April 1975, is the progeny of an F1 plant selected from the cross 'Windom' × 'Bison 70'. In the north central regional flax trials Culbert, under designation CI 2776, was the highest yielding entry for the years 1972 through 1975. Culbert is high yielding relative to other cultivars, whether sown early or late.

Culbert has the N3 and L4 rust-conditioning genes; the latter conditions resistance to all known North American races of rust, Melampsora lini (Ehrenb) Lev. Furthermore, it is moderately resistant to both wilt, Fusarium oxysporum Schlecht. r. lini (Bolley) Snyd. and Hans, and pasmo, Septoria linicola (Speg) Gar., and moderately resistant to lodging. Culbert is early maturing (49 days from sowing to full bloom), of medium height (56 to 60 cm), and high in oil content and iodine value. The flowers are blue and intermediate to small. The seeds are brown and of average size (5 g/1,000).

Culbert is adapted to the north central flax-growing region of the United States. Seed classes of Culbert are breeder, foundation, and certified. Breeder seed is maintained by the Minnesota Agric. Exp. Stn.

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REGISTRATION OF TORAL OATS1
(Reg. No. 278)
R. L. Taylor2

'TORAL' (Avena sativa L.), CI 9163, is a spring oat developed by the Alaska Agric. Exp. Stn. and the ARS-USDA. Toral was selected from the cross 'Orion III' × 'Tatranski' made at the Palmer Research Center in 1955. Orion III, PI 197839, is an early-maturing black-glumed oat from Sweden. Tatranski, PI 131633 (CI 3807), is a mid-season, yellow-glumed introduction from Poland. Toral has been tested in Alaska since it was selected as a progeny row in 1961.

Toral is a mid-season, mid-tall, high-yielding oat. Principal performance comparisons have been made with Golden Rain. Toral produced an average grain yield of 0.62 t/ha, which is 4% higher than Golden Rain. Toral has averaged 2.5% more kernels per panicle, and 3% heavier kernels relative to Golden Rain. Toral is recommended for full-season grain production or in regions having prolonged hot summers. Only moderate summer performance can be expected on warmer locations or in regions having prolonged hot summers.

2 Research agronomist, ARS, USDA, Palmer, AK 99645.

REGISTRATION OF YORKTOWN PERENNIAL RYEGRASS
(Reg. No. 44)
F. B. Ledeboer, W. K. Dickson, K. J. McVeigh1

'YORKTOWN' perennial ryegrass (Lolium perenne L.) is a five-clone synthetic cultivar developed by Lofts Pedigreed Seed, Inc., Bound Brook, NJ 08805; head soil scientist, Soil and Crops Dep., Rutgers University — New Jersey Agricultural Experiment Station. The first commercial seed was harvested in 1975. Lofts Syn C was the experimental designation of Yorktown.

Yorktown is an attractive, leafy, moderate-growing type cultivar which produces a moderately dark-green turf of finer texture, greater density and a slower rate of vertical growth than many other perennial ryegrass cultivars. In all grasses, Yorktown produces the best turf in a cool, moist, maritime climate or during the cool, moist seasons of spring and fall. Only moderate summer performance can be expected on warmer sites or in regions having prolonged hot summers.

1 Registered by the Crop Sci. Soc. Am. Accepted 9 May 1977.
2 Registered by the Crop Sci. Soc. Am. Cooperative investigations between New Jersey Agric. Exp. Stn., Cook College, Rutgers — The State Univ. of New Jersey, New Brunswick, NJ 08903.
3 Vice-president for agronomy and research, Lofts Pedigreed Seed, Inc., Bound Brook, NJ 08805; head soil scientist, Soils and Crops Dep., Rutgers University — New Jersey Agricultural Experiment Station. The first commercial seed was harvested in 1975. Lofts Syn C was the experimental designation of Yorktown.