Registration of Crop Cultivars

REGISTRATION OF CULBERT FLAX

(Reg. No. 32)

V. E. Comstock and J. H. Ford

'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 (Spec) 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.


REGISTRATION OF YORKTOWN OATS

(Reg. No. 278)

R. L. Taylor

'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-glummed oat from Sweden. Tatranski, PI 191633 (CI 3807), is a mid-season, yellow-glummed 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 in the Tanuska Valley of southcentral Alaska. Heaviest test yields of Toral averaged 2.4 days earlier, and 7.4 cm shorter in height than Golden Rain, equal to Golden Grain in test weight and crude protein of grain, but superior in resistance to lodging. Toral has averaged 13% fewer culms per unit area, 26% more kernels per panicle, and 2% heavier kernels relative to Golden Rain. Forage dry-matter yield of Toral has averaged 21% above that of Golden Rain.

Toral is recommended for full-season grain production in all areas of Alaska with sufficient growing season. It is also recommended as a component of oat-pea forage mixtures. Forage yields have been favorable, and the improved straw strength helps to support the peas in this forage mixture.

Toral was released to seed producers in Alaska in 1975. Breeder, foundation, and certified classes of seed are recognized. Breeder seed is maintained at the Alaska Agric. Exp. Stn., AL 99645.


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REGISTRATION OF YORKTOWN

(Reg. No. 44)

F. B. Ledeboer, W. K. Dickson, K. J. McVeigh

'YORKTOWN' perennial ryegrass (Lolium perenne L.) is a five-clone synthetic cultivar developed by Lofts Pedigreed Seed, Inc. from germplasm obtained from the 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 type cultivar which produces a moderately coarse, finer texture, greater density and a slower rate of vertical growth than many other perennial ryegrass cultivars. Yorktown is an early-maturing type which produces a moderately dark-green turf of 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.

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