Lynn is now used as the male parent in most of the commercially available hybrids. Lynn is adapted to the castor growing areas of Texas, New Mexico, Kansas, and Nebraska. Breeder seed will be maintained by the cooperative USDA-TAES program, Texas A&M University Agricultural Research and Extension Center at Lubbock, Lubbock, Texas 79401.

REGISTRATION OF SUMTER OATS

(Reg. No. 233)


'SUMTER' oats (Avena sativa L.), C.I. 7508, SC 57-167, was selected at the South Carolina Agricultural Experiment Station and released in 1961.

Sumter is the cross 'Arlington'/3/'Wintok'/2/'Clinton' #/5/'Santa Fe'. F2, bulked seed was sent to Clemson from the Crops Research Division, ARS, U.S. Department of Agriculture. The initial selection was a single F3 plant, and the final selection was an F4 head row in 1957. Sumter is resistant to Helminthosporium victoriae, crown rust races 203, 216, and 294, halo blight, and curl rot. It has excellent tolerance to soil-borne oat mosaic virus, which approaches that of 'Arlington 23'. It appears to be resistant to most prevalent races of smut.

The morphological description of Sumter is as follows: juvenile growth deciduous; plants mid-early, short to mid-tall, numerous tillers; leaves medium in width and color without marginal pubescence; ligule present; panicle equilateral, medium in length and width, rachis straight to slightly flexuous, branches moderately numerous, mid-long, straight to slightly raised to slightly drooping at ends; glumes white to slightly reddish, rather coarse in texture; lemma mid-long and wide (kernel plump), yellowish white in color with some gray flecking, to 7 nerves white but may be tinged with reddish color and may be flecked with gray, occasionally straightawn present, rachilla mid-short, slender, nonpubescent; separation of 2-flowered spikelets usually by histotransference but frequently by basistructure.

Sumter was replaced by 'Sumter 3' and seed is not generally available.

1 Registered by Crop Science Society of America. Published with approval of Director, South Carolina Agricultural Experiment Station, as Technical Contribution No. 845. Received February 28, 1970.
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3 Furnished by F. A. Coffman, Collaborator, Crops Research Division, ARS, U.S. Department of Agriculture.

REGISTRATION OF SUMTER 3 OATS

(Reg. No. 234)


'SUMTER 3' oats (Avena sativa L.), C.I. 7886, SC 59-9803, is a pure line selection from 'Sumter'. Sumter 3 was selected from the cross 'Arlington'/3/'Wintok'/2/'Clinton' #/5/'Santa Fe'. Sumter 3 was first entered in the Uniform Central Winter Oat Performance Nursery in 1966-67.

Sumter 3 is like the parent variety in all morphological and disease aspects. Justification for release of Sumter 3 was higher yield and test weight per bushel. It is more uniform in height and maturity than Sumter. Sumter 3 has a small degree of off-type hull color.

Sumter 3 was released by the South Carolina Agricultural Experiment Station in 1966. Breeder seed will be maintained by the Department of Agronomy and Soils, Clemson University.

REGISTRATION OF BRUCE OATS

(Reg. No. 235)


'BRUCE' oats (Avena sativa L.), C.I. 7888, SC 60-13549, from the cross 'Arlington'/3/'Delair'/1/'Trispernia'/3/'Arlington,' was released by the South Carolina Agricultural Experiment Station in 1966. The cross was made at the North Florida Experiment Station at Quincy, Florida. Bruce resulted from the increase of seed from an F3 plant selected in 1959. The variety was first tested in South Carolina in 1961-62 and entered in the Uniform Central Winter Oat Performance Nursery in 1962-63.

Bruce has superior tolerance to soil-borne oat mosaic virus. It exceeding most presently available varieties for this characteristic and is comparable to 'Arlington 23'. In the Piedmont of South Carolina it has an excellent yield record, even on soils infested with oat mosaic virus. For those areas where crown rust is a serious problem, Bruce might lack adequate resistance. It has excellent resistance to Victoria blight and curl rot. Bruce shows slight variations for height and seed characteristics. Seed color is usually yellowish grey with a tendency toward more grey. The primary feature of Bruce is its excellent productivity in soil-borne oat mosaic virus infected areas, particularly in the Piedmont.

Bruce is semi-prostrate; mid-tall (85-100 cm); mid-early with numerous tillers; leaves mid-wide with marginal pubescence; ligule present; equilateral panicle, mid-long, mid-wide; rachis straight to slightly flexuous, branches ascending; glumes white, lemma mid-long and wide, yellowish grey, 5 to 7 nerves white but may be tinged with reddish color, 5 to 7 nerves white but may be tinged with reddish color, yellowish grey, 5 to 7 nerves white but may be tinged with reddish color, occasional straightawn present; spikelet separation by semi-abscission and floret separation is by histotransference; rachilla mid-long with pubescence.

Breeder seed will be maintained by the Department of Agronomy and Soils Clemson University, Clemson, S. C. 29631.

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REGISTRATION OF ARLINGTEN 23 OATS

(Reg. No. 236)


'ARLINGTON 23' (Avena sativa L.), C.I. 7890, S.C. 60-15925, was released in 1965 by the South Carolina Agricultural Experiment Station. It is a reselection from the variety Arlington. Arlington has the pedigree 'Lee'/1/'Victoria'/1/'Fulwin' and has been described previously.

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