Seed propagation of Reliant is restricted to two generations of increase from breeder seed - one each of foundation and certified. Breeder seed is produced by Lofts Seed, Inc. in cooperation with the New Jersey Agriculture Experiment Station. Application (No. 8200168) has been made for U.S. Plant Variety Protection.

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OGLE SPRING OAT

'Ogle' CI 9401, spring oat Avena sativa L.) (Reg. No. 304) was developed at the Illinois Agriculture Experiment Station in cooperation with USDA-ARS and released in 1980. It was designated IL 73-2664 during development and testing.

Ogle resulted from a cross of 'Brave' // 'Tyler' / 'Eg dolon 23'. It originated as a single plant selection from the fifth generation of a population advanced by single seed descent. Breeder seed of Ogle was produced by bulking approximately 600 hill plots that were uniform in appearance.

Ogle has been evaluated in advanced yield tests in Illinois since 1975 and in the Uniform Midseason Oat Performance Nursery since 1976. Based on performance in these tests, Ogle is a very high yielding, widely adapted, medium maturing cultivar with excellent tolerance to barley yellow dwarf virus (BYDV). In Illinois, it has been more resistant to BYDV than any commercial cultivar tested.

Ogle ranked first or second for yield in the Uniform Midseason Oat Performance Nursery in every year from 1976-1982. Compared to the cultivar 'Lang', it is higher yielding, several days later in maturity, 4 to 8 cm taller, equal in test weight, lodging resistance, and grain quality, and very much superior in BYDV resistance. Groat protein percentage of Ogle averaged 16.6% over 39 location-years from 1977-1980, whereas 'Orbit', 'Clintland 64', and 'Dal' averaged 16.5, 18.9, and 20.3%, respectively. Groat oil percentage of Ogle was 5.6% compared to 6.5, 5.7 and 7.8%

References and Notes

1. Professor of agronomy, Univ. of Illinois; and research USDA-ARS; 1102 South Goodwin Avenue, Urbana, Ill. 61801. Breeder seed is maintained by the Crop Sci. Soc. Am. Cooperative investigation by the Crop Sci. Soc. Am. Cooperative investigation by the Crop Sci. Soc. Am.

LARRY SPRING OAT

'Larry', CI 9400, spring oat (Avena sativa L.) (Reg. No. 305) was developed by the Illinois Agriculture Experiment Station in cooperation with USDA-ARS and released in 1980. It was designated IL 73-2186 during development and testing.

Larry resulted from a cross of 'Tyler' // 'Orbit'. It originated as a single plant selection from the fifth generation of a population advanced by single seed descent. Breeder seed of Larry was produced from approximately 700 hill plots that were uniform in appearance.

Larry has been evaluated in advanced yield tests in Illinois since 1975, in the Uniform Early Oat Performance Nursery from 1976-1980, and in the Uniform Midseason Oat Performance Nursery in 1977-1978. Based on these tests, Larry is a high yielding, early maturing cultivar with tolerance to barely yellow dwarf virus similar to 'Lang' cultivar in maturity, height, and lodging resistance, but has higher test weight, larger kernel, and superior BYDV resistance. Larry, however, has not been equal to 'Otee' in Illinois tests. Grain yields of Larry are superior to Lang in Illinois.

Kernels of Larry are yellow and nonfluorescent. Its primary kernel occasionally contains a short awn which separates during threshing. Awns are shorter and occur less frequently on the primary kernel of Larry than on Lang in Illinois.

Larry is susceptible to some currently important cereal leaf blight pathogens such as Alternaria carthami (Carthamus tinctorius L. (Pers.) Rostr.) and some other coleosporiella species (Puccinia coronata Cda. f. sp. avenae Eriks. and Hen. and Puccinia avenae Eriks. and Henn.).

Larry is not protected under the Plant Variety Protection Act. Breeder seed is maintained by the Illinois Agric. Exp. Stn., Urbana, IL 61801.

C. M. BROWN

References and Notes