Chaps has consistently high yields and is adapted to the north-central and central areas of the United States. Based on data from 28 environments and is moderately resistant to crown rust. In the Uniform Early Oat Performance Nursery, Chaps ranked first for yield in 1992, 1993, and 1994. In comparison, ‘Don’ ranked 26th in 1992, 24th in 1993, and 16th in 1994 in the Uniform Early Oat Performance Nursery. The grain yield of Chaps averaged 3.9 compared with 3.8 for Ogle, on a 0-to-9 scale, where 0 = tolerant and 9 = very sensitive. Chaps has been equal to, or slightly better than, Ogle for grain yield in most environments. In Illinois, the test weight of Chaps averaged 3.5 kg hL⁻¹ greater than Ogle and similar to Don. Test weight of Chaps is higher than Ogle and similar to Don in most environments. In the Uniform Early Oat Performance Nursery, groat protein content of Chaps has been similar to Don, great percentage of Chaps has been better than Don, and groat oil percentage of Chaps has been higher than Don.

Barley yellow dwarf virus (BYDV) tolerance of Chaps is similar to Ogle. In inoculated tests of BYDV to 1996, Chaps averaged 3.9, compared with 3.5 for Ogle. Resistance to some races of crown rust (caused by Ustilago avenae W.P. Fraser & Ledingham) is present. Chaps has midbroad equilateral panicles with ascending branches. Spikelet separation occurs by disarticulation. Lemmas are yellow and glabrous. Basal hairs are absent. The second floret rachilla segments are glabrous and midlong to long. Kernels of Chaps are yellow and are nonfluorescent under ultraviolet light. Twisted awns occur infrequently and average 25 mm in length when present. Up to 0.5% variants, predominantly taller plants, are allowed in Rodeo.

Variety protection of Rodeo is pending under the Title V option of the U.S. Plant Variety Protection Act (PVP Certificate no. 9700121). Foundation and Certified classes of seed are permitted beyond breeder seed; there is no Registered class of seed. Foundation seed of Rodeo was first available on a limited basis in the spring of 1997. Breeder seed of Rodeo will be maintained by the Illinois Agricultural Experiment Station, Urbana, IL 61801. Limited quantities of seed for research are available from the corresponding author. Recipients of seed are asked to make appropriate recognition of the source of Rodeo if it is used in the development of a new cultivar, germplasm, parental line, or genetic stock.

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References and Notes
2. F.L. Kolb, N.J. Smith, C.M. Brown. Dep. of Crop Sciences, and L.L. Domier, USDA-ARS and Dep. of Crop Sciences, Univ. of Illinois, 1102 S. Goodwin Ave., Urbana, IL 61801. The development of Rodeo was funded in part by the Quaker Oats Co., Inc., Illinois Foundation Seeds, Inc., and the Illinois Agric. Exp. Stn. Registration by CSSA. Accepted 31 Aug. 1998. *Corresponding author (f-kolb@uiuc.edu).


Registration of ‘Chaps’ Oat

‘Chaps’ spring oat (Avena sativa L.) (Reg. no. CV-352, PI 596582) was developed at the Illinois Agricultural Experiment Station of the University of Illinois in cooperation with USDA-ARS and released in 1996. Chaps was tested as experimental line IL66-2081 prior to release. The performance of Chaps was evaluated in Illinois from 1989 to 1996 and in the Uniform Early Oat Performance Nursery in 1992, 1993, and 1994.

Chaps has been consistently high yielding and adapted to the north-central and central areas of the United States. Based on data from 28 environments and is moderately resistant to crown rust. In the Uniform Early Oat Performance Nursery, Chaps ranked first for yield in 1992, 1993, and 1994. In comparison, ‘Don’ ranked 26th in 1992, 24th in 1993, and 16th in 1994 in the Uniform Early Oat Performance Nursery. The grain yield of Chaps averaged 3.9, compared with 3.8 for Ogle, on a 0-to-9 scale, where 0 = tolerant and 9 = very sensitive. Chaps has been equal to, or slightly better than, Ogle for grain yield in most environments. In Illinois, the test weight of Chaps averaged 3.5 kg hL⁻¹ greater than Ogle and similar to Don. Test weight of Chaps is higher than Ogle and similar to Don in most environments. In the Uniform Early Oat Performance Nursery, groat protein content of Chaps has been similar to Don, great percentage of Chaps has been better than Don, and groat oil percentage of Chaps has been higher than Don.

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