glume is covered with hairs and has an awn 1½ times its length. The kernel has a finely wrinkled adhering hull, a white aleurone, and a crease which is narrow and V-shaped from the base. Kernels are small, wide at the center, and taper sharply to both ends, with lateral kernels being slightly twisted. The peduncle is strong and the spike erect.

Herb was released by the Wyoming Agriculture Experiment Station in 1978 and breeder seed will be maintained at the Sheridan Station through the Foundation Seed Program. Variety protection will not be requested.

REGISTRATION OF PERRY BARLEY

(Reg. No. 165)

J. M. Poehlman and Dale T. Sechler

'PERRY' barley (Hordeum vulgare L.), CI 15731 and Mo. B2487, was developed at the Missouri Agricultural Experiment Station. Perry originated as a single F₄ plant selection from the cross 'Mo. B-400'/Ludwig'/Carstens'. The Mo. B-400/Ludwig parent, accession numbers Mo. B1589 and CI 15188, is a six-rowed, winter type. Carstens is a two-rowed, winter-type cultivar from Europe. Perry has been tested in yield trials in Missouri since 1973 and in the Cooperative Uniform Nursery of Hardy Varieties since 1976.

Perry is six-rowed, rough-awned, and winter type. Compared to 'Mo. B-475' in Missouri trials since 1973, Perry is 30% higher in yield (22 comparisons), 8% higher in test weight (32 comparisons), similar in winter hardiness (13 comparisons), 3 days earlier (18 comparisons), and 12 cm shorter (22 comparisons). In the field, Perry is resistant to the barley yellow dwarf virus (BYDV), to Rhynchosporium secalis (Oud.) J. J. Davis that incites scab, and to Helminthosporium sativum P.K. and B. that incites spot blotch, and moderately resistant to Ustilago nuda (Jens) Rostr. that incites loose smut.

Kernels of Perry are covered, moderately plump, with white or colorless aleurone. In 22 trials, 60% of the kernels remained on the top of a 6/64 screen compared to 45% for Mo. B-475. Perry has a short-haired rachilla and long glume awns. Spikes are middense, midlong, and nodding to semierect, however, plants may vary in these characteristics with not to exceed 5% having middense to moderately lax and nodding spikes. Plants with moderately lax spikes tend to be 3 to 5 cm taller than plants with the more dense spikes. Laxity and length of spike decreases as the cultivar is grown on soils with less favorable fertility and moisture supply.

Perry is adapted to the southern two-thirds of Missouri and adjacent areas. Breeder seed was increased from head hill progenies of single spike selections. Breeder seed and Foundation seed will be maintained by the Missouri Agricultural Experiment Station, Columbia, MO 65211.

REGISTRATION OF TOALSON PEANUT

(Reg. No. 23)

C. E. Simpson, O. D. Smith, and T. E. Boswell

'TOALSON' is a Spanish type peanut (Arachis hypogea L. fastigiata Waldron vulgaris Harz) with foliage and vine characteristics similar to other Spanish cultivars. The new cultivar is thicker hull and larger pod than most Spanish cultivars, and has moderate resistance to Pythium and Rhizoctonia organisms. The new cultivar was developed at the Texas Agricultural Experiment Station, College Station, TX 77843; associate professor in charge, Texas A&M University Agricultural Experiment Station, and released in the Cooperative Uniform Nursery of Hardy Varieties since 1973.

The kernel is covered by a thickened hull and a large black seed coat with a long black embryo. The cultivar is adapted to the southern two-thirds of Missouri and has shown good persistence in FFR trials. Hallmark is produced as a three generation cultivar - breeder, foundation, and certified. Vegetative portions of five parent clones of Hallmark are maintained at West Lafayette, Ind.

1 Registered by the Crop Sci. Soc. Am., Texas A&M Univ., College Station, TX 77843; associate professor in charge, Texas A&M University Agricultural Experiment Station, and released in the Cooperative Uniform Nursery of Hardy Varieties since 1973.


1 Registered by the Crop Sci. Soc. Am. Accepted 30 June 1979.