discarded and remaining rows were harvested in bulk. Foundation seed was produced at Logan, UT, in 1989.

Rollo is a six-rowed, midseason, erect growing, spring feed barley. It has a strap shaped, erect head with little or no overlap of the lateral kernels, and sparse hairs on the rachis edges. It has waxy leaves and head. Immature plants have a distinctly purple upper node. Glumes are long, with hairs restricted to the middle, and have medium-to-long, semi-smooth glume awns. Lemma awns are long and semi-smooth and have distinctly purple tips prior to maturity. Stigmas are lightly feathered. The seed is covered, midlong, slightly wrinkled, with long rachilla hairs, and a transverse crease at the base. Aleurone color is white and 1000-kernel weight averages =44 g. The base of the spike is marked by a closed collar.

Compared to 'Steptoe', Rollo heads =3 d later, is equal in test weight and is =1 cm shorter. Rollo has stronger straw (30 vs. 51% lodging for Steptoe in 17 station-year average). Twenty station-year average grain yields of Rollo exceeded those of Steptoe, presently the most widely grown barley cultivar in Utah, by =4% (6748 vs. 6478 kg ha-1) in Utah irrigated tests and by =5% (5260 vs. 5000 kg ha-1) in 38 station-year Western Regional Spring Barley tests; yields of Rollo exceeded those of the long-time check cultivar, ‘Trebi’, by 40 and 26%, respectively, in the same tests. Rollo was slightly lower than Steptoe in protein (10.98 vs. 11.36%) in 16 station-year Utah tests. Rollo has shown field resistance to barley loose smut [caused by Ustilago tritici (Pers.) Rostr.] and covered smut [caused by Ustilago hordei (Pers.) Lagerh.], and moderate resistance to powdery mildew [caused by Erysiphe graminis DC. f. sp. hordei Em. marchal]. Its reaction to other diseases is not known. Rollo is recommended for growing under irrigation only.

Rollo was named after the late Dr. Rollo W. Woodward, long-time USDA barley breeder located at Utah State University.

The generation sequence of seed production of Rollo is breeder, foundation, registered, and certified. Rollo is protected under the Plant Variety Protection Act, Public Law 91–577, and Title V of the Federal Seed Act. Breeder seed is maintained by the Utah Agricultural Experiment Station, Department of Plants, Soils, and Biometeorology, Utah State University, Logan, UT 84322–4820. Foundation seed is available from the Utah Crop Improvement Association, Utah State University, Logan, UT 84322–4855.

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References and Notes
