**REGISTRATIONS OF CULTIVARS**

**Registration of ‘UC 937’ Barley**

‘UC 937’ barley (*Hordeum vulgare* L.) (Reg. no. CV-296, PI 608667) is a six-rowed spring feed barley released by the California Agricultural Experiment Station in 1998. UC 937 was selected from the cross ‘Sma1’/‘Sunbar 401’/3/‘Gus’/‘Kombyne’/Sma1 (Matchett and Cantu, 1978). Sma1 has the parentage ‘Steptoe’/2*‘Diamant’/3/Minn Dwarf 64.98-8/‘Briggs’/4/‘Asse’ (Muir and Nilan, 1973; Schaller and Prato, 1968). The final cross was made at Woodland, CA, in 1983 by Robert Matchett. Subsequent generations were handled in a pedigree selection program. An F5-derived seed sample in the F6 generation (86Woodland 41233) was received for testing by the University of California, Davis, from Robert Matchett in 1987. A head row was selected for agronomic appearance in 1992 by Lynn Gallagher and designated UCD 92-10,615 for preliminary yield trials. In 1993, it was designated UCD 937 and placed in California regional yield trials for statewide evaluation. Over 32 yield trials, UC 937 averaged 4688 kg ha\(^{-1}\) and was superior to other varieties with an increase of 14.8% more than ‘UC 476’ (Schaller et al., 1990), 22.2% more than ‘UC 603’ (Schaller et al., 1990), 11.4% more than ‘Nebula’, 104.2% more than ‘Max’, and 23.6% more than ‘Patti’.

UC 937 is short stunted, averaging 88.9 cm, as a result of the sdw gene, but averages 5 cm taller than ‘UC 828’ (Gallagher et al., 1996). UC 937 is intended for late fall to early winter (November-December) sowing in the Central Valley of California. Heading time of UC 937 is 2 to 5 d later than UC 828, with mid-November to mid-December emergence under short daylengths in California.

UC 937 is moderately resistant to Barley yellow dwarf virus, leaf rust (caused by *Puccinia hordei* Otth.), powdery mildew [caused by *Erysiphe graminis* DC. f. sp. *hordei* Em. Marchal; syn. *Blumeria graminis* (DC.) E. O. Speer], net blotch [caused by *Rhynchosporium secalis* (Oudem.) J.J. Davis]. UC 937 is resistant to races of stripe rust (*Puccinia striiformis* f. sp. *hordei*) existing in the Central Valley of California. In 2 yr of stripe rust observations at Cochabamba, Bolivia, in 1994 and 1995 (W.M. Brown, V. Velasco, and J.P. Hill, personal communication, 1994 and 1995), UC 937 was scored TrR and 5MS compared with 100S and 90S, respectively, for UC 828.

The spike of UC 937 is semi-smooth awned, mid-dense, waxy, and semi-erect. The kernels are beige with a white aleurone and covered. Kernel weight averages about 43 mg and is similar to UC 828, but heavier than UC 337 (Schaller et al., 1990) in the absence of stripe rust.

Breeder and Foundation seed classes are maintained by the Foundation Seed and Certification Services, Univ. of California, Davis CA 95616.

**References**


L.W. Gallagher, L.F. Jackson, Y.P. Puri (retired), and H.E. Vogt, Dep. of Agronomy and Range Science, Univ. of California, Davis, CA 95616; R.W. Matchett, Resource Seeds, Zamora, CA 95698. Registration by CSSA. Accepted 31 Jan. 2001. *Corresponding author: lynn.gallagher@ucdavis.edu*.

Published in Crop Sci. 42:1374 (2002).

**Registration of ‘UC 960’ Barley**

‘UC 960’ barley (*Hordeum vulgare* L.) (Reg. no. CV-297, PI 608668) is a six-rowed spring, feed barley released by the California Agricultural Experiment Station in 1998. UC 960 was selected from the cross ‘Sma1’/‘Sunbar 401’/3/‘Gus’/‘Kombyne’/Sma1 (Matchett and Cantu, 1978) of the parentage ‘Steptoe’/2*‘Diamant’/3/Minn Dwarf 64.98-8/‘Briggs’/4/‘Asse’ (Muir and Nilan, 1973; Schaller and Prato, 1968). The final cross was made at Woodland, CA, in 1983 by Robert Matchett. Subsequent generations were handled in a pedigree selection program. An F6-derived seed sample, designated as NK 2867 (86Woodland 41017) was tested in the F6 generation by the University of California, Davis, from Robert Matchett in 1987. A single head row was selected for agronomic appearance and tested in the F6 generation for stripe rust resistance (caused by *Puccinia striiformis*). UC 960 was scored 10MS and 5MS compared with 100S and 90S, respectively, for ‘Steptoe’ and 5288 kg ha\(^{-1}\) for ‘Gustoe’ at Tulelake in the Klamath Basin. No differences were observed among varieties for growth habit or yield.

UC 960 is short stunted, averaging 71.1 cm, as a result of the ‘Briggs’/4/‘Asse’ parentage. UC 960 is moderately resistant to Barley yellow dwarf virus, leaf rust (caused by *Puccinia hordei* Otth.), net blotch (caused by *Pyrenophora teres* Drechs.), and scald (caused by *Erysiphe graminis* DC. f. sp. hordei), but resistant to stripe rust. UC 960 is about 1 wk earlier than ‘Gustoe’ and similar to ‘Steptoe’ for heading at Tulelake. UC 960 is intended primarily for spring planting under long daylengths in the southern Klamath Basin.

UC 960 is about 5 cm taller than ‘UC 828’ (Gallagher et al., 1996). UC 960 should be planted earlier (in early winter) than ‘Gustoe’ if Plano 420 is included in the variety mix. UC 960 is resistant to Barley yellow dwarf virus, leaf rust (caused by *Puccinia hordei* Otth.), and scald (caused by *Pyrenophora teres* Drechs.).