WBNTY-FIVE varieties of barley have been registered.

Bonneville (C.I. 7248) was developed by the Utah Agricultural Experiment Station in 1946. It was selected by R. W. Woodward from a cross of Colorado 3063 (Coast Winter Club) and another variety. Bonneville is a six-rowed spring barley with smooth awns and a colorless aleurone. It is late in maturity, has good straw strength, and is medium to tall in height. It is resistant to some races of mildew, loose smut, and covered smut but susceptible to rusts.

Hiland (Reg. No. 9530) was developed by C. A. Simonson at Davis, Calif., from one of H. V. Hansen's Composite Crosses. This selection was made by R. W. Hendershot at the Sherman County Branch Experiment Station, Moro, Oregon. It was later placed in trial in Laramie, Wyoming. Hiland is well adapted to production under irrigation and is late in maturity. It has stiff straw and is medium to short in plant height. It threshes easily and gives a high test weight. It is resistant to mildew and loose smut. It is classed as a feed barley.

Other yield data have been reported by Nielsen et al. (10). Comparative yields are given in Table 3. Over 30% of the irrigated barley acreage in Wyoming was planted to Hiland in 1957, and its use is increasing. Varietal Standardization and Registration charged with registration to date so that varieties receive registration during the time of their importance in production in the recent past. It would seem desirable in the future to keep applications up of their importance in production.