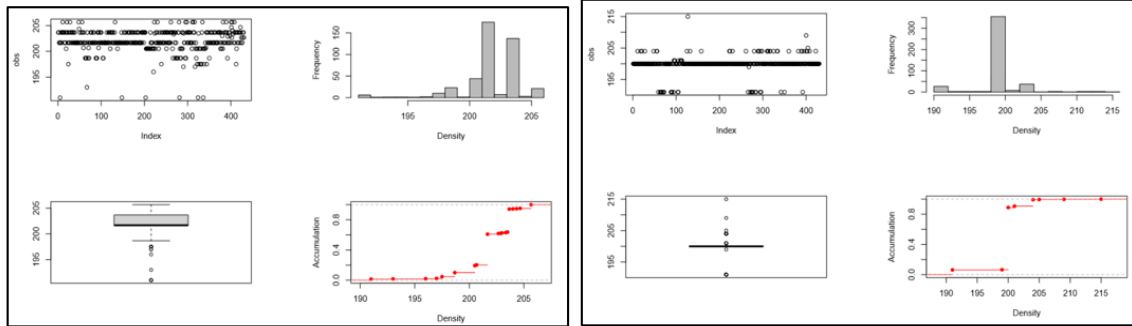


A. DH

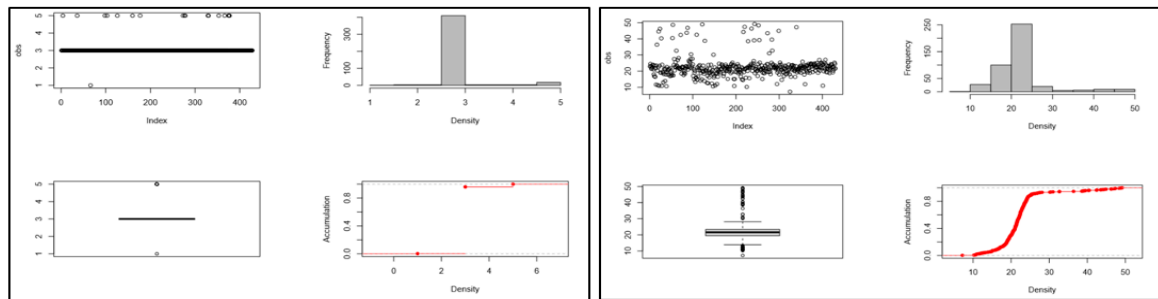
B. DMW



C. DM

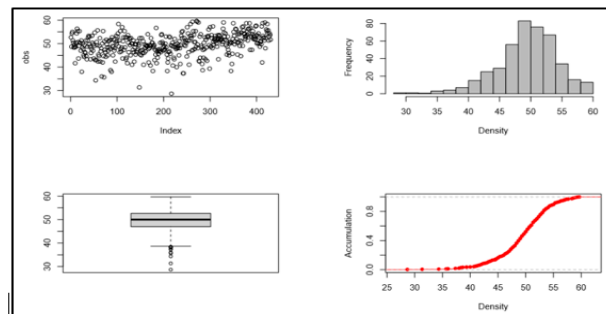
D. DPH

Figure S1. Frequency distribution of the barley accessions based on phenological stages. (A) plants at tillage stage (DH), (B) plants at milky-waxy (DMW), (C) plants at maturity stage (DM), (D) plants at harvest stage (DPH).



A. SD

B. NGS



C. TGW

Figure S2. Frequency distribution of the barley accessions based on the spike and seeds traits. (A) spike density, (B) grain per spike (NGS), (C) 1000-grain weight (TGW).



A1



A2



B1



B2



C1



C2



D1



D2

Figure S3. Variability in spike shape and density, awn types and grain. Grains and spikes: (A1,A2) Czarny Preciwciala, (B1,B2) Mazowiecki, (C1,C2) Korona Lachskiego, (D1,D2) Gerda.