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**Genetic evaluation of lactation persistency for five breeds of dairy cattle.** *By Cole and Null, page 2248.* Cows with high lactation persistency tend to produce less milk than expected at the beginning of lactation and more than expected at the end. (Co)variance components and breeding values for persistency, which are needed for routine genetic evaluation, were calculated for breeds other than Holstein. Data included lactations from Ayrshire, Brown Swiss, Guernsey, Jersey, and Milking Shorthorn cows calving since 1997. Prediction equations for 400-d milk yield were calculated for each breed by regression of both 305-d yield and 305-d yield and lactation persistency on 400-d yield. Routine genetic evaluations for lactation persistency, as well as the development of prediction equations for several lactation end-points, may provide producers with tools to better manage their herds.