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Best prediction of yields for long lactations. *By Cole et al., page 1796.* New tools were developed for the use of the best prediction method of modeling lactational milk yield. Lactation curves for the means and standard deviations of milk, fat, and protein yields and somatic cell score were estimated. Correlations among test-day yields were predicted using a function that accounts for biological changes and daily measurement error. Programs were validated by comparison with 305-d yields from the national dairy database and daily yields from on-farm meters. Many cows can profitably produce for more than 305 d in milk, and the revised program provides a flexible tool to model these records.