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Modeling Nuisance Variables for Prediction of Service Sire Fertility. *By Kuhn et al., page 2823.* The current average conception rate of only 30% for US Holstein cows has made fertility a trait of prime interest to dairy farmers. Fertility of the dairy bull is part of the reproductive complex and, thus, identification of bulls with the best and worst fertility provides one means to improve conception rate. Accurate evaluation requires adjusting for extraneous factors. This research identified herd management, lactation, (calendar) month of breeding, cow, milk yield, service number, cow age, and interval between breedings as factors to adjust for in the analysis of bull fertility.