

Lactation records of Holstein- Friesian cows in Kenya made during the period 1968 to 1984 were analyzed for the cases of heterogeneity of variance in milk yield among herds using a fixed effect least squares model. Year, herd, herd class, parity, calving interval and lactation length all influenced milk yields significantly ($p < 0.01$), while season of calving didn't ($p > 0.05$). age at calving affected 305 days milk yields significantly ($P < 0.005$). it was concluded that adjustment of records for these non-genetic effects could minimize heterogeneity of variance in milk yield among Holstein-Friesian herds in Kenya.