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RESEARCH ARTICLE

Effect of different genetic groups (H.F × Local, Jersey × Local and Local × Local) on the lactation length in cattle

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Abstract : A study was conduct to estimate the effect of different genetic groups (H.F × Local, Jersey × Local and Local × Local) on the lactation length in cattle. The productive data pertaining to dairy cows in and around the Allahabad District Karchana Block were collected by providing questionnaires, frequent field visits and personal contact with the farmers over a period of one year (2011-2012). The data thus obtained were classified according to genetic group as Holstein Friesian × Local (G1), Jersey × Local (G2) and Local× Local (G3) cows. The effect of different genetic groupsFriesian×Local(G1), Jersey×Local(G2) and Local× Local (G3) cows on Lactation length was recorded. The mean lactation length was 306.6153 days in G1, 286.9316 days in G2 and 208.409 days in G3.The differences in mean value of lactation length of G1, G2 and G3 inheritance were significant. From the perusal of data on lactation length according to their Genetic groups (G1) H.F x Local, (G2) Jersey x Local, Local x Local (G3) indicated the lactation length in H.F x Local crossbred cattle ranged from 281 to345 days, Jersey x Local crossbred cattle ranged from 206.6 to323 days and Local x Local crossbred cattle ranged from 105.37 to 326.9 days. However the longest mean lactation length (306.6153 days) was observed in cows of G1 followed by 286.9316 days in cows of G2, 208.409 days in cows of G3. Since differences in their lactation length were found significant, it indicated a significant effect of genetic group on lactation length of cows. The differences in lactation length between G1 and G2 as well as G2 and G3 were found at par showing a non – significant influence among them solves while G1 and G3 had a clear significant influence of genetic groups on lactation length of cows, which indicates more milk production from genetic group G1.

Key words : Lactation length, Genetic groups, Holstein friesian, Jersey, Local, Cattle

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