Prevalence of Gastrointestinal Parasite in Cattle of Rupandehi District of Nepal in Different Seasons

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Abstract

Majorly the gastrointestine of cow is infected with nematodes, cestodes and trematodes. This eventually contribute to decrease the productivity of cattle. To analyze the seasonal prevalence of the gastrointestinal parasite, a study was done in Thutipipal of Rupandehi district in two different seasons i.e. summer and winter. Method used to recover and identify the parasite egg or larva from the fecal sample was sedimentation technique. In summer season total of 48 fecal samples of cattle were taken out of which 14 samples showed the parasitic infestation. This was 29.17% infestation. Similarly, 51 fecal samples were taken in winter season in the same location, out of which 10 samples showed the parasitic infestation. This showed the winter infestation to be 19.6%. Infestation within the result for the summer was 58.33% which was higher than that of winter which was 41.67%. Statistically the result in both seasons was found to be non-significant. Also, the infestation in the breed of cattle was analyzed. Result showed 7 fecal samples of Jersey infested with parasite out of 47 Jersey cattle which was 14.89% infestation. Similarly, 21 fecal samples of Jersey cross infested with parasite out of 52 Jersey crosses which was 40.38%. Infestation within the result was also higher for the Jersey cross which was 75% than that of the Jersey which was 25%. The result was statistically non-significant. But the infestation percentages in both seasons are itself significant to hamper the productivity of the cattle.

***Keywords**: Gastrointestinal, Nematodes, Rupandehi, Parasitic infestation*

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