ABSTRACT

Longitudinal research study on monitoring GIT parasites of beef cattle was done starting April-November 2015 on three different farms in two different regions in Czech Republic. At which Two farms are located in Vysočina region and one in Středočeský region. 20 samples of fresh feces were collected every month from each farms during morning. Processing and evaluation of samples took place in parasitology laboratory at State Veterinary Institue in Jihlava. Samples were evaluated using a relatively new coprological technique FLOTAC, developed in Italy and recommended for qualitative and quantitative analysis of parasites egg and oocyst on large farm animals. For each farm two pooled samples (10 g each) by substracting 1 g of feces from individual samples were used. Data was collected every month and analyzed using software Statistical 13. On farm 1 From beginning to middle of pasture season the EPG of *Eimeria spp* was zero but higher EPG was observed during September and November. Conversly, the EPG of GIN on the begining of pature time was high and starts to decrease in July-August and the higher number of EPG of GIT parasites was observed in October. On this farm the EPG of *Monezia* *spp* observed was less than 10 through out the study period. On farm 2 the EPG of *Eimeria spp* was flactuating, lower and higher EPG was observed in July and November respectively. GIN had three major peaks exceeding 100 EPG, June, October and November. Occurrence of *Moniezia spp.* was higher than in farm 1. On farm 3 the EPG of *Eimeria spp*. was highly increased in November. Situation of GIN was observed with several peaks throughout the pasture season and *Moniezia spp.* was found with low numbers of EPG. In conclussion, the prevalence of *Eimeria spp* was higher during November in all farms. The prevalence of GIN was higher during the end of pasture time on farm 1 and farm2 where as the prevalence of *Monezia spp* was low throughout the study time in all farms. The study was supported by grant project:20165013 IGA from faculty of AgriScience and 20162012 GAFAPPZ (CIGA), CULS, Prague,CR.