

Analysis of the body condition with free grazing cattle by GPS

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ABSTRACT: *In the current work, GPS system was used to follow the movements and location of Korean native cattle in open pasture land and to estimate their pregnancy. The results show that there were distinct differences in active mass for a day between pregnancy, non-pregnancy, early pregnancy and late pregnancy of the cattle. Based on the experimental results, the pregnancy and non-pregnancy in cattle could be predicted by analysis of the active mass and pattern using GPS. Using such data in real time at stock-breeding farmhouses, the bio-symptoms of Korean native cattle could be judged and subsequent actions can be taken rapidly in urgent situations.*

Keywords: *Analysis, body condition, cattle, free grazing, GPS*

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