Soil fertility management on natural pastures in Eastern Georgia

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The development of livestock production in Georgia is mainly based on productivity of natural common pasturelands as it is the cheapest way to keep animals. Therefore it is crucial to manage those pastures in order to supply domestic animals with adequate amount of green grass during whole grazing season. The problems associated with poor grassland management is especially evident under limited rainfall conditions. Usually farmers do not consider suitability of existing stocking rates with pasture productivity leading to overutilization of pastureland causing reduction of palatable plant species and total grass cover stimulating soil erosion processes, which deflates soil nutrients and soil organic matter. Intensification of negative processes may result in loss of soil fertility and poor grass regrowth capacities.

Current study aims to evaluate existing grazing system on a selected plots from common pasturelands in Eastern Georgia and to develop a proper soil fertility management plan accepted in organic agriculture taking into account local soil-climatic conditions, pasture vegetation stand and its richness with palatable plant species.