008
Species diversity and forage value of herbage in a neglected coconut land proposed for livestock integration
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The proposed coconut land is situated in the southern province, belongs to the land suitability class S4 which is moderately suitable for coconut. Therefore, managing coconut as monoculture is unprofitable and steps have been taken to optimize the land use through livestock integration. Therefore, objective of this study was to investigate the species diversity and forage value of understory vegetation in the coconut land before introducing cattle. Stratified quadrate sampling technique was adopted and 4 samples each from 6 paddocks (approx 0.4 ha) were randomly taken. Each stratum contained more than 80% of edible species while the non edible species found in all strata were common upland weeds *Axonopus affinis* (carpet grass), *Axonopus compressus* (narrow carpet grass) and *Desmodium trifolium* were dominant prostate grass and legume species found in 0-5 cm strata above ground level. In addition to above species *Pueraria phaseoloides* (Centro) was found to be dominant in 5-15 cm strata. *Crysopogon arichalatus* and *Pueraria phaseoloides* were dominant in 15-25 cm strata while *Setiera anceps* (fox tail grass) found to be dominant above 25 cm height. The common non-edible species found in the lower two strata’s were *Urena lobata, Hemidcsmus indicum* and *Ocimum tenuiflorum* while *Lantana camara and Ocimum tenuiflorum* were dominant in upper two strata’s. The dry matter (DM) and crude protein (CP) content of edible herbage increased from bottom to top layers ranged from 390 gkg⁻¹ to 480 gkg⁻¹ and 75 gkg⁻¹ to 100 gkg⁻¹ respectively.

The results of this study reveal that the species diversity and forage value are in an acceptable standard to initiate cattle grazing. However, crop and cattle management strategies are important in order to improve coconut and livestock performance.

009
A study on palmyrah (*Borassus flabellifer*) utilization pattern and socioeconomic status of dependent livelihood in Mannar district of Sri Lanka
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The palmyrah palm (*Borassus flabellifer* L.) is a multipurpose tree of great utility, occurs extensively in Northern and Eastern part of Sri Lanka. This tree engages human labour in the industries around it irrespective of gender or age. This survey was carried out to study utilization pattern of palmyrah tree and assess the socioeconomic parameters of randomly selected 60 families registered in five co-operative societies of Mannar district.

This study revealed that 93 % of males and 7 % of females entirely engaged in this industry with the average of 1.2 persons from each family. The average monthly family income of study population was RS 11320 ± 318 rupees, comes under higher income group. When comparing the family income with the average household number of 5.8 ± 1.3 of rice inadequacy to meet present expenditure. Further more, study showed that these families did not show much interest on children education and most of youngsters leave school before sitting General Certificate of Education Ordinary Level examination. 58 % of families were living in small or medium size cottage made up of timber and palmyrah leaves as roofing material.

Tapping of mature tree was main source of income. One male tapped 14 ± 2.7 trees per day with the average of 8 ± 1.2 liter of toddy per tree. They did not produce sweet toddy (unfermented sap) because of low demand. They normally market toddy (fermented sap) to their customers for drinking, co-operative society under palmyrah development board and for vinegar production. The price of toddy also varied from RS 6 to 20.00 rupees depending on quality. Apart from that, most of the tappers had to travel about 3 km out of co-operative boundary for tapping and selling their product. During off season and free time, they do timber carving, animal raring and palmyrah tuber production. Women did not actively engage in this industry except few workers in coir factory. Based on this