## Second Laureate Applied Research

- Research Work Title: Production of Animal feed from processed sugarcane tops
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## Abstract:

The residue after harvesting of sugarcane is a considerable part of this crop which includes tops, pith and bagasse and molasses. This residue forms about %25 of total biomass of this crop, which is left on the ground, interferes with irrigation and shooting out of new buds. Burning of sugarcane farm before harvesting is one way to get rid of this residue. However, this method is strongly criticized by the environment protecting organizations. Sugarcane tops has suitable nutritive value and can be classified as moderate forage. In sugarcane industries in the south of Iran, about 20000 of hectares are harvested by sugarcane harvester. The residues left on the ground can be packed and collected. About 8 tons of sugarcane tops can be collected from each hectare by ordinary packing-forage machines and altogether, 160000 tons of this residue is obtainable annually. The nutritive value of this residue can be upgraded and by organic and chemical materials and used an animal feed. In this invention, by processing of sugarcane tops, its crude protein was increased from 5.4 to 7.98 percent and its metabolizable energy elevated from 1.7 to 1.88 MJ/kg.







