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## **Recoup of sugarcane by products and its role in the development of animal production**

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Sugarcane by products including, tops, bagasse, pith and molasses are the major proportions of the sugarcane which is left from sugar industry. Sugarcane tops (SCT) that is about 25% of the whole crop has a relatively rich nutritive value where it may be comparable with corn silage. Based on the agricultural development plan in Khoozestan, the potential yield of SCT is predicted to reach 2.5 million metric ton that is equal to 700 thousands ton of dry mater per year. In addition, bagasse, pith and molasses are the other sugarcane by products which are remained from sugar industry with a considerable amount of yield (15 and 5 ton per hectare respectively). In general, the sugarcane by products that may be used as animal feed is estimated to be about 2.5 million ton on dry mater basis. Such a potential resource is enough as a basal diet to feed at least 500000 head of large ruminant with particular to milking buffaloes and cattle. By supplementation of this basal feed it is possible to compensate the nutrient deficiencies of these by products, a potential of 1.5 million ton milk and 60000 ton beef will be available in Khoozestan providence. However, the sugarcane by products are used as basal feed in ruminant nutrition. Since last decade, in Iran, some researcher and extension works have been conducted to identify the nutritire value, enrichment and utilization of sugarcane by products as animal feed. The results and recommendations will be discussed in this paper.

**Keywords:** Sugarcane residues, Nutritive value, Animal production, Development

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