

Karakteristik Susu Kerbau Sungai dan Rawa di Sumatera Utara

Title	Karakteristik Susu Kerbau Sungai dan Rawa di Sumatera Utara
Author Order	4 of 6
Accreditation	
Abstract	<p>The objective of this research was to investigate the characteristics and differences in quality milk of Water and Swamp buffalo milk in North Sumatera. This research was conducted used complete random design used 30 buffalo from three breeding farm in North Sumatera. Buffalo milk were collecting from lactating buffaloes on three traditional farms located at Patumbak, Lubuk Pakam, and Siborong-borong with extensive farming system. The result of this research shown milk production per day for Swamp buffalo is 1 1.5 l and Water buffalo is 6 8 l with quality of Swamp and Water buffalo sequentially are for protein $5.14 \pm 0.37\%$ and $4.68 \pm 0.41\%$, fat content $7.52 \pm 0.98\%$ and $4.13 \pm 0.73\%$, non-fat dry matter (NFDM) $10.61 \pm 0.78\%$ and $11.5 \pm 0.86\%$, moisture $81.87 \pm 2.26\%$ and $80.33 \pm 2.33\%$, milk density 1.030 and 1.036, and then Total Plate Count (TPC) 3.79×10^6 and 5.08×10^5, shown indicated that there were significant difference in protein, fat content and NFDM ($P < 0.01$). But there is no differences in moisture and milk density. TPC shown that Swamp buffalo milk has above the maximum microbes present in milk. The conclusion of this research is milk production of Swamp buffalo less than River buffalo but has higher in chemical quality of milk than River buffalo such as protein, NFDM and fat content. Amino acids in Swamp buffalo milk were higher than River buffalo milk. Although buffalo has less milk production than cow but buffalo milk were higher in all quality tested parameters and have more potential than dairy cow to be developed because maintenance of buffalo in North Sumatera is still use traditional method and not yet leading to efforts to obtain maximum production performance.</p>
Publisher Name	Institut Pertanian Bogor
Publish Date	2014-12-18
Publish Year	2014
Doi	
Citation	
Source	Jurnal Ilmu Pertanian Indonesia
Source Issue	Vol. 19 No. 2 (2014): Jurnal Ilmu Pertanian Indonesia
Source Page	67-73
Url	http://journal.ipb.ac.id/index.php/JIPI/article/view/8799/6873
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