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THE QUALITY AND PRODUCTION OF MILK BY LOCAL FARMERS IN JOHOR IN YEAR 2016 TO 2018

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ABSTRACT

This study aimed to determine the quality and trend of production of cow milk from local dairy farmers in Johor. Data were obtained from 185 farmers in five Pusat Pengumpulan Industri Tenuku (PPIT), for the year 2016-2018. Five milk quality parameters gathered were solid non-fat (SNF), fat, total dissolve solid (TDS), total plate count (TPC), and methylene blue reduction test (MBRT), with the average of 8.81%, 3.82%, 12.78%, 1.7×10^6 cfu/ml and five hours, respectively. There were slightly significant differences in the quality parameters in different years, except for MBRT. The TPC results for all PPITs in every year were exceeding the limit of 1.0×10^6 cfu/ml. About 40% of the farmers were categories as small-scale farmers, 16% as semi-commercial, 33% as commercial, whereas no data for the remaining. Overall, there were no significant differences in the milk quality parameters between small-scale, semi-commercial and commercial farmers in every year. Total milk production was at average of 6.70 million liters, and half of it was contributed from PPIT JB. An average income for the farmers has been estimated at RM 3,785.29. The average income for the commercial farmers was significantly higher than semi-commercial and small-scale farmers, at RM 10,827, RM 3,059 and RM 1,765, respectively. About 80% of milk produced by the farmers was sent to PPITs. The rate of production was quite low, at an average of 9.27 L/cattle/day.