

14<sup>th</sup> Proceedings of the Seminar on Veterinary Sciences, 19 – 20 October 2019**ANALYSIS OF TOTAL SOLID FOR FRESH MILK QUALITY  
GRADING IN PERAK****KALAAVATHI M., BOHARI M., NOOR AKMI MN. & HAZLIANA  
H.,***Veterinary Research Institute  
59 Jalan Sultan Azlan Shah, 31400 Ipoh, Perak***ABSTRACT**

Total solids are one of the measurements to ensure the quality of fresh milk. The Department of Veterinary Services (DVS) serves the assurance of quality and safety of fresh milk from dairy farm to milk processors through Milk Collection Centre (MCC). The aim of this study is to review the performance of dairy farms from four MCC in Perak which located at Parit, Sungai Siput, Tapah and Taiping based on the grading for fresh milk grades from highest Grade A, Grade B and Grade C that are set by the DVS for milk pricing. The Biochemistry section of Veterinary Research Institute (VRI) had received a total of 2397 samples of fresh milk sample from MCCs in Perak in the year of 2018. Statistical analysis showed that there are significant differences in the mean of four MCC (where  $p < 0.05$ ) using one-way analysis of variance (ANOVA). Results showed, 69.17% samples were Grade A, 24.81% were Grade B and 6.02% were Grade C. This study showed that MCC in Sungai Siput is the main contributor for Grade A while Taiping is the highest contributor of Grade C. The data obtained in this study can be used as reference to identify the lower grade fresh milk producing dairy farms in Perak in order to assist them to improve quality. This study also indicates the milk producers require more trainings and better monitoring services to solve the milk quality issues in their farms immediately.

**Keywords:** Total solids, quality of fresh milk, milk collection centre, milk grading parameters