The purpose of this study was to determine differences in fat and protein content of milking in the morning time and afternoon time on a dairy farm in Jemur Wonosari, District Wonocolo Surabaya. The milking time which examined were milking in the morning time and afternoon time. Samples of milk were transferred to the Veterinary Public Health laboratory. Fat test conducted by using Gerber methods and protein test by using formol titration method. The data was collected and analyzed by using SPSS software assistance 18 (Statistical Program For Social Science 18). Result of the experiment showed signifikant differences (p<0,05). Research results showed that fat content of milking in the morning time was 2.92% and protein content was 6.75%. Fat content of milking in the afternoon time was 2.21% and protein content was 4.81%. Based on the results of this study concluded that fat and protein content on the morning milking was higher than the afternoon.

Key word : Milk, Protein, Fat