The purpose of this research was to know the use of fermentation recycle flour soybean fermented cake (tempe) as corn substitution to crude fiber and organic substance of broiler. This research used Completely Randomized Design method. Four experiments and six replications. P0 as a control, did not use recycle flour soybean fermented cake (tempe), P1 used 5%, P2 used 10% and P3 used 15%. The time of this experiment was seven days. The result of this research showed that the use of fermentation recycle flour soybean fermented cake (tempe) as corn substitution to crude fiber and organic substance of broiler was not different significantly with control. The conclusion of this research was recycle flour soybean fermented cake (tempe) could use as substitution of corn on maximal percentage mixed broiler feed.

Keywords: soybean fermentation, corn substitution, crude fiber, organic substance, broiler.