The aim of this research to know giving influence of lysine and methionine through drinking water to carcass and abdominal fat percentage of broiler chickens coming from young parent stock. This research divided in to three treatments and ten replications, that were P0, is broiler coming from mature parent stock without amino acid supplementation; P1, broiler coming from young parent stock without amino acid supplementation; and P2, is broiler coming from young parent stock with amino acid supplementation. Amino acid giving were lysine and methionine done through drinking water with dose 1 gram per 4 liters.

Base on the result of statistical analysis by using Analisis Variant test, it was continued by Duncan’s multiple range test (5%). That average of carcass percentage showed non significantly difference among treatment (p > 0.05). The average of carcass percentage broiler chicken from P0, P1, P2 as followed 71.332, 70.765, and 71.960% respectively. With the same statistical analysis knowable, that average of abdominal fat percentage showed non significantly difference among treatment (p > 0.05), and so it whose with Duncan’s multiple range test (5%). In conclusion, addition of essential amino acid (lysine and methionine) at broiler coming from young parent stock did not have an effect on carcass and abdominal fat percentage.

Key word : carcass, abdominal fat, lysine , methionine, broiler chickens