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## Correlation of Age and Slaughter Weight on Carcass and Non-Carcass Female Sheep During Iedul Adha

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### Abstract

Slaughtering intensity of local female sheep in Indonesia increased during the period of Iedul Adha (moslem ceremony of slaughtering specific livestock). This slaughtering was related to the decreasing availability of male sheep in the market. The factors of age and slaughter weight were analysed as well as carcass and non-carcass percentages. In total 60 females sheep consisted of thirty sheep with a slaughter weight of 10 – 14.9 kg and 15 – 20 kg (less than one year; 1 – 1,5 years; and 1,5 – 2 years old) were used in this study. Data were collected from slaughtering house at Bantul district, Yogyakarta including age, slaughter weight, carcass and non-carcass (head, skin, legs, heart, liver, lungs, and digestive tract) weights and analysed using ANOVA method. We present how the age and slaughter weight contribute on the different parts of carcass and non-carcass percentages vary from both parameter sets. Results showed that slaughter weight significantly influenced carcass and non-carcass percentages ( $P < 0,05$ ), while age significantly influenced carcass, skin, legs, heart, liver, lungs, and digestive tract percentages ( $P < 0,05$ ), except for head weight percentage. It was concluded that slaughtering female sheep above one year old resulted in higher percentage of carcass. We suggested to slaughter female sheep above one year old and 15 kg slaughter weight during Iedul Adha period, which might help to control slaughtering local female sheep in their growth period. More thorough analysis using social-economic analysis might give more proper explanation of this phenomenon.

**Keywords:** Age, carcass, female sheep, Iedul Adha, slaughter weight