

INFLUENCE OF SEX AND PRE-SLAUGHTER WEIGHT OF PIGS ON THEIR CARCASS QUALITY

Oleksandr MYKHALKO¹, Mykola POVOD¹, Michael GILL²,
Oleksandr TSERENIUK³, Ruslan TRYBRAT², Gabriella BIRTA⁴,
Natalia KRYGINA³

¹Sumy National Agrarian University, 160 H. Kondratiiev Str., Sumy, Ukraine

²Mykolaiv National Agrarian University, 9 Georgy Gongadze Str.,
Mykolaiv, Ukraine

³Institute of pig breeding and agroindustrial production of the National
Academy of Agrarian Sciences of Ukraine, 1 Swedish Grave Str.,
Poltava, Ukraine

⁴Poltava University of Economics and Trade, 3 Kovalya Str., Poltava, Ukraine

Corresponding author email: snau.cz@ukr.net

Abstract

In order to study the influence of pig sex and pre-slaughter weight on carcass quality, experimental studies were carried out on 120 pigs of Irish origin: 30 gilts with a pre-slaughter weight of 100 kg, 30 gilts with a pre-slaughter weight of 120 kg, 30 barrows with a pre-slaughter weight of 100 kg, 30 barrows with a pre-slaughter weight 120 kg. After fattening the pigs were slaughtered and their carcass qualities were evaluated. The analysis showed the influence of pre-slaughter weight on slaughter yield: in gilts by 1.7%, in barrows – no effect; on chilling losses: in gilts by 44.00%, in barrows by 26.32%; on fat thickness above the 6-7 thoracic vertebrae: in gilts by 21.19%, in barrows by 24.76%; on fat thickness in buttocks: in gilts by 22.65 %, in barrows – no effect; on fat thickness in withers: in gilts by 13.47%, in barrows by 14.9%; on carcass length: in gilts by 8.28%, in barrows by 4.62% and on the Loin eye area MLT: in gilts by 6.0%, in barrows by 13.50%.

Key words: carcass length, fat thickness, meat content, carcass, slaughter yield.