

Table of Contents

In Press

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[CJAS \(63\) 2018](#)[CJAS \(62\) 2017](#)[CJAS \(61\) 2016](#)[CJAS \(60\) 2015](#)[CJAS \(59\) 2014](#)[CJAS \(58\) 2013](#)[CJAS \(57\) 2012](#)[CJAS \(56\) 2011](#)[CJAS \(55\) 2010](#)[CJAS \(54\) 2009](#)[Issue No. 1 \(1-45\)](#)[Issue No. 2 \(47-91\)](#)[Issue No. 3 \(93-135\)](#)[Issue No. 4 \(137-189\)](#)[Issue No. 5 \(193-237\)](#)[Issue No. 6 \(239-292\)](#)[Issue No. 7 \(293-337\)](#)[Issue No. 8 \(341-386\)](#)[Issue No. 9 \(385-434\)](#)[Issue No. 10 \(435-474\)](#)[Issue No. 11 \(475-518\)](#)[Issue No. 12 \(521-574\)](#)[CJAS \(53\) 2008](#)[CJAS \(52\) 2007](#)[CJAS \(51\) 2006](#)[CJAS \(50\) 2005](#)[CJAS \(49\) 2004](#)

Editorial Board

Ethical Standards

Reviewers 2017

For Authors

Author Declaration

Copyright Statement

Instruction for Authors

Submission Templates

Fees

New Submissions/Login

Subscription

Results of pig carcass classification according to SEUROP in the Czech Republic

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Through data analysis of 7 571 883 pig carcasses slaughtered from 2004 to 2007 the means of quality classes (QC) 2.32, lean meat percentage (LM) 55.83%, carcass weight (CW) 87.21 kg, muscle thickness (MT) 61.95 mm and fat thickness (FT) 15.95 mm were determined. The highest correlation coefficients are between QC and LM ($r = -0.920$), LM and FT (-0.900) as well as QC and FT (0.828), the lowest between FT and MT ($r = -0.084$). Quality class as the dominant indicator is influenced mainly by LM, which explains from 77% to 89% of variability in the case of linear regression. Among the eight methods of pig carcass classification the FOM apparatus was used the most frequently (46.5% carcasses) followed by the ULTRA-FOM 300 apparatus (15.6%), another apparatus (13.2%) and by the IS-D-05 unit (9.8%). In the statistical models used all effects (differences) are statistically significant because of the large size of the data set. The results from the separate evaluation of each cross-classified effect are that EV has the largest influence and year-season and methods have a smaller influence. The time trend (42 months) documents stable CW and MT, a slight increase in LM and improvement of QC. The estimated results indicate the successful introduction of pig carcass classification in the CR after accession to the EU.

Keywords:

pig; carcass classification; accuracy; weight; quality class; lean meat; fat

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