

Table of Contents

In Press

Article Archive

HORTSCI (45) 2018

HORTSCI (44) 2017

HORTSCI (43) 2016

HORTSCI (42) 2015

HORTSCI (41) 2014

HORTSCI (40) 2013

HORTSCI (39) 2012

Issue No. 1 (1-52)

Issue No. 2 (55-99)

Issue No. 3 (101-148)

Issue No. 4 (149-198)

HORTSCI (38) 2011

HORTSCI (37) 2010

HORTSCI (36) 2009

HORTSCI (35) 2008

HORTSCI (34) 2007

HORTSCI (33) 2006

HORTSCI (32) 2005

HORTSCI (31) 2004

HORTSCI (30) 2003

HORTSCI (29) 2002

Editorial Board

Ethical Standards

Reviewers 2017

For Authors

Author Declaration

Instruction for Authors

Submission Templates

Guide for Authors

Copyright Statement

Fees

Submission/Login

For Reviewers

Guide for Reviewers

Reviewers Login

Subscription

Final evaluation of nine plum cultivars grafted onto two rootstocks in a trial established in 1998 at Holovousy

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<https://doi.org/10.17221/150/2011-HORTSCI>

Citation: Blažek J., Pištěková I. (2012): Final evaluation of nine plum cultivars grafted onto two rootstocks in a trial established in 1998 at Holovousy. Hort. Sci. (Prague), 39: 108-115.

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Nine plum cultivars newly introduced into production were evaluated in a replicated trial established in 1998 on two rootstocks planted in a spacing of 5 × 1.5 m. Trees were trained as spindles and evaluated regarding vigour, canopy performance, level and stability of yields, yield efficiency, fruit size, time of flowering and harvest season until 2010. Significant differences among cultivars were found but the most interesting were related to tree vigour, yield efficiency and fruit size. Dwarfing influence of Wangenheim seedling was negligible in Empress and Čačanska lepotica but mostly visible in Sanctus Hubertus. Wegierka Dabrowicka on both the rootstocks had the highest yield efficiency, exceeding 3 kg/m³ of trunk cross-section area. Yield efficiency of trees grafted on Wangenheim was generally higher than those grafted on Myrobalan but the greatest difference was evidenced on Domestic Prune (more than 25%). Suggestions in terms of trees-spacing are definitively proposed upon results of this study.

Keywords:

tree characteristics; harvest time; tree vigour; yields, yield efficiency; fruit size

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Impact Factor (WoS)

2017: 0.5

5-Year Impact Factor: 0.819

SJR (SCImago Journal Rank – SCOPUS):

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