

European Journal of Agronomy

Vol. 133

CONTENTS

FEBRUARY 2022

Regular Articles

- Agro-economic prospects for expanding soybean production beyond its current northerly limit in Europe
K. Karges, S.D. Bellingrath-Kimura, C.A. Watson, F.L. Stoddard, M. Halwani and M. Reckling 126415
- Strategic use of honey bees (*Apis mellifera* L.) to increase the number and size of fruits in kiwifruit (*Actinidia chinensis* var. *deliciosa*)
M.A. David, A. Yommi, E. Sánchez, A. Martinez, N. Murillo, O. Marcellán, O. Atela and M.A. Palacio 126420
- Tine tip width and placement depth by row-injection of cattle slurry influence initial leaf N and P concentrations and final yield of silage maize
I.F. Pedersen, T. Nyord and P. Sørensen 126418
- Evaluation of multiple gridded solar radiation data for crop modeling
A. Araghi, C.J. Martinez and J.E. Olesen 126419
- Point placement of late vegetative stage nitrogen splits increase the productivity, N-use efficiency and profitability of tropical maize under decade long conservation agriculture
H.S. Nayak, C.M. Parihar, B.N. Mandal, K. Patra, S.L. Jat, R. Singh, V.K. Singh, M.L. Jat, S. Garnaik, J. Nayak and A.M. Abdallah 126417
- Towards a global characterization of winter wheat cultivars behavior in response to stressful environments during grain-filling
M.O. Bancal, F. Collin, P. Gate, D. Gouache and P. Bancal 126421
- Bayesian calibration and uncertainty analysis of an agroecosystem model under different N management practices
H. Liang, J. Xu, L. Chen, B. Li and K. Hu 126429
- Combining targeted grass traits with red clover improves grassland performance and reduces need for nitrogen fertilisation
A. Carswell, A.R. Sánchez-Rodríguez, K. Saunders, K. le Cocq, R. Shaw, J. Cotton, Y. Zhang, J. Evans, D.R. Chadwick, D.L. Jones and T. Misselbrook 126433
- Contrasting effects of slurry and mineral fertilizer on N₂-fixation in grass-clover mixtures
R.K. Kristensen, D. Fontaine, J. Rasmussen and J. Eriksen 126431
- Straw return strategies to improve soil properties and crop productivity in a winter wheat-summer maize cropping system
H. Cui, Y. Luo, J. Chen, M. Jin, Y. Li and Z. Wang 126436
- In silico* assessment of sowing dates and nitrogen management in common bean crops
L.F. Justino, R. Battisti, L.F. Stone and A.B. Heinemann 126434
- Contributions made by rain-fed potato with mulching to food security in China
R. Qin, F. Zhang, C. Yu, Q. Zhang, J. Qi and F.-m. Li 126435

- Improving phenotyping in winter barley cultivars towards waterlogging tolerance by combining field trials under natural conditions with controlled growth condition experiments
T. Byrne, J. Grant, P. Kock-Appelgren, L. Förster, T. Michel, A. Miricescu, W.T.B. Thomas, E. Graciet, J. Spink, C.K.Y. Ng and S. Barth 126432
- Summer fallow straw mulching and reducing nitrogen fertilization: A promising practice to alleviate environmental risk while increasing yield and economic profits of dryland wheat production
H. Zhao, A. Mao, H. Yang, T. Wang, Y. Dou, Z. Wang and S. Malhi 126440
- Cropping system diversification does not always beget weed diversity
G. Adeux, S. Yvoz, L. Biju-Duval, E. Cadet, P. Farcy, G. Fried, J.-P. Guillemain, D. Meunier, N. Munier-Jolain, S. Petit and S. Cordeau 126438
- Wind lodging-associated yield loss is reduced by wheat genetic diversity
X. Kong, P. Peng, L. Li, K. Zhang, Z. Hu, X. Wang and G. Zhao 126441
- Effect of ambient temperature on the model stability of handheld devices for predicting the apple soluble solids content
H. Li, M. Zhang, M. Shen, Z. Zhang, B. Zhang, H. Zhang, J. Hu, X. Ren, L. Xing and J. Zhao 126430
- Combining multi-environmental trials and crop simulation to understand soybean response to early sowings under contrasting water conditions
C. Schoving, L. Champolivier, P. Maury and P. Debaeke 126439
- Prospects for cotton self-sufficiency in China by closing yield gaps
Y. Wang, S. Peng, J. Huang, Y. Zhang, L. Feng, W. Zhao, H. Qi, G. Zhou and N. Deng 126437
- Analysis of site-specific N balances in heterogeneous croplands using digital methods
M. Mittermayer, F.-X. Maidl, L. Nätscher and K.-J. Hülsbergen 126442
- Using linear mixed-effects modeling to evaluate the impact of edaphic factors on spatial variation in winter wheat grain yield in Japanese consolidated paddy fields
X. Zhou, G.B.M. Heuvelink, Y. Kono, T. Matsui and T.S.T. Tanaka 126447
- Partial substitution of chemical fertilizer with organic fertilizer over seven years increases yields and restores soil bacterial community diversity in wheat-rice rotation
X. Li, B. Li, L. Chen, J. Liang, R. Huang, X. Tang, X. Zhang and C. Wang 126445
- Understanding changes in cassava root dry matter yield by different planting dates, crop ages at harvest, fertilizer application and varieties
R.O. Enesi, S. Hauser, P. Pypers, C. Kreye, M. Tariku and J. Six 126448
- An Integrated Weed Management framework: A pan-European perspective
M. Riemens, M. Sønderskov, A.-C. Moonen, J. Storkey and P. Kudsk 126443
- Introgression of qPE9-1/DEP1, a major QTL for rice panicle erectness, drastically improves nitrogen use efficiency under limited nitrogen supply
G. Dong, Y. Zhou, J. Zhang, J. Wang, J. Zhou, C. Chen, X. Zhang, H. Hua, X. Shu, Y. Gao, J. Ju, Z. Zhang, Z. Yang, Y. Wang, J. Huang, G. Liang and Y. Yao 126444
- The first calibration and evaluation of the STICS soil-crop model on chickpea-based intercropping system under Mediterranean conditions
O. Kherif, M. Seghouani, E. Justes, D. Plaza-Bonilla, A. Bouhenache, B. Zemmouri, P. Dokukin and M. Latati 126449

AMERICAN BEE JOURNAL

CONTENTS

Volume 162 No. 3

March 2022

DEPARTMENTS

From the Editor.....	239
Letters to the Editor.....	241
News and Events.....	245
U.S. Honey Crops and Markets ...	249
Classified Advertising.....	347
Advertising Index.....	350

COLUMNS

THE CLASSROOM

Jamie Ellis.....	253
------------------	-----

BEEKEEPING BASICS

Early Spring Management Dewey M. Caron.....	261
--	-----

THE CURIOUS BEEKEEPER

The Ladies Drink for Free Rusty Burlew.....	281
--	-----

BEEKEEPING, PAST AND PRESENT

Early Spring Honey Robbing and How to Detect It Wyatt A. Mangum.....	295
--	-----

NOTES FROM THE LAB

When Do Honey Bees Compete with Nativ Wild Bees? Scott McArt.....	325
---	-----

SCIENCE INSIDER

Wintering Colonies Indoors Alison McAfee.....	331
--	-----

ARTICLES

- Lawsuits and Bee Suits:
A Sad History of Bees and Pesticides in U.S. Agriculture
May R. Berenbaum..... 267
- 2022 Extended-release Oxalic Update — Part 1
Randy Oliver..... 273
- Migratory Beekeeping
Part One: Early Migratory Beekeepers
Peter L Borst..... 287
- Colony Confidential ... What *Really* Goes on Inside the Hive
Chapters 1 & 2
Peter Keilty, with illustrations by Bridget White..... 302
- American Beekeeping Federation 2022:
Annual Conference Brings Beekeepers Together
Kent Pegorsch..... 306
- Beekeeping as Therapy for Veterans: A WWI Means to Wellness Revived
M.E.A. McNeil..... 311
- American Bee Research Conference 2022
Malcom T. Sanford..... 319
- Bee Vandalism in Burlington, Vermont
Bill Mares..... 329
- Navigating the Web:
Apicultural Science and Education in the Information Age
Malcom T. Sanford..... 335
- The Braggot — A New Old Brew
Is it Beer or is it Mead?
Shelley Stuart..... 337
- Shout it From the Rooftops:
Dwarf Bee Rescue in the Garden City
Peter Keilty..... 341
- Is the Study of Pure Genetics in Honey Bees of Practical Value?
From the Archives..... 345