

Australian Journal of Agricultural Research

Contents

Volume 59

Issue 1

2008

Farming systems

- Companion crop performance in relation to annual biomass production, resource supply, and subsoil drying.
R. H. Harris, M. C. Crawford, W. D. Bellotti, M. B. Peoples, S. Norng 1

Crop/pasture agronomy and physiology

- Increasing sucrose accumulation in sugarcane by manipulating leaf extension and photosynthesis with irrigation.
N. G. Inman-Bamber, G. D. Bonnett, M. F. Spillman, M. L. Hewitt, J. Jackson 13

- Response to terminal water deficit stress of cowpea, pigeonpea, and soybean in pure stand and in competition.
A. A. Likoswe, R. J. Lawn 27

- Hydraulic lift by canola plants aids P and K uptake from dry topsoil.
T. J. Rose, Z. Rengel, Q. Ma, J. W. Bowden 38

- Ripening time and fruit characteristics of advanced olive selections for oil production.
Raúl de la Rosa, Lorenzo León, Inmaculada Moreno, Diego Barranco, Luis Rallo 46

- Response of representative cover crops to aluminum toxicity, phosphorus deprivation, and organic amendment.
Frederico C. B. Vieira, Zhenli L. He, Patrick C. Wilson, Cimélio Bayer, Peter J. Stoffella, Virupax C. Baligar 52

Crop/pasture improvement and protection

- Development of SCAR markers linked to *zt-2*, one of the genes controlling absence of tannins in faba bean.
Natalia Gutierrez, C. M. Avila, M. T. Moreno, A. M. Torres 62

- Using morphological traits to identify persistent lucernes for dryland agriculture in NSW, Australia.
S. P. Boschma, R. W. Williams 69

- Additive genetic variance for stem strength in field pea (*Pisum sativum*).
C. P. Beeck, J. Wroth, W. A. Cowling 80

- Genetic dissection of the relationship of apparent biological yield and apparent harvest index with seed yield and yield related traits in soybean.
Shiyu Cui, Xiaohong He, Sanxiong Fu, Qingchang Meng, Junyi Gai, Deyue Yu 86