

Crop & Pasture Science

Contents

Volume 66

Issue 1

2015

REVIEW PAPER

Methane in Australian agriculture: current emissions, sources and sinks, and potential mitigation strategies
Damien Finn, Ram Dalal, Athol Klieve

1

RESEARCH PAPERS

Effect of soil pH and crop sequence on the response of wheat (*Triticum aestivum*) to phosphorus fertiliser
Craig Scanlan, Ross Brennan, Gavin A. Sarre

23

Phenotypic effects of additional chromosomes on agronomic and photosynthetic traits of common wheat in the background of Chinese Spring
Caiyun Liu, Zhiyuan Yang, Xiaojie Chen, Hisashi Tsujimoto, Yin-Gang Hu

32

Variation for apical sterility among diploid, tetraploid and hexaploid Iranian wheats under meiotic stage water-stressed and well-watered conditions
Shahram Mohammady

42

Comparison of teosinte (*Zea mexicana* L.) and inter-subspecific hybrids (*Zea mays* L. × *Zea mexicana*) for high forage yield under two sowing regimes
Imtiaz Akram Khan Niazi, Saeed Rauf, Jaime A. Teixeira da Silva, Hassan Munir

49

Carbon and nitrogen metabolism in arbuscular mycorrhizal maize plants under low-temperature stress
Xian-Can Zhu, Feng-Bin Song, Fu-Lai Liu, Sheng-Qun Liu, Chun-Jie Tian

62

Use of functional traits to identify Australian forage grasses, legumes and shrubs for domestication and use in pastoral areas under a changing climate
M. L. Mitchell, H. C. Norman, R. D. B. Whalley

71

Multi-physiological-trait selection indices to identify *Lotus tenuis* genotypes with high dry matter production under drought conditions
Luis Inostroza, Hernán Acuña, José Méndez

90

Ability to recover overrides the negative effects of flooding on growth of tropical grasses *Chloris gayana* and *Panicum coloratum*
José A. Imaz, Daniel O. Giménez, Agustín A. Grimoldi, Gustavo G. Striker

100

Comments on papers relating to soil phosphorus testing in 'Making Better Fertiliser Decisions for Cropping Systems in Australia' in *Crop & Pasture Science* 64, 435–441, 461–498 (2013)
I. C. R. Holford

107

Reply to 'Comments on papers relating to soil phosphorus testing in 'Making better fertiliser decisions for cropping systems in Australia'' by I.C.R. Holford
P. W. Moody, C. B. Dyson, S. D. Speirs, B. J. Scott, R. Bell

110

Corrigendum

112