

Crop/pasture agronomy and physiology

Endogenous hormones in seed, leaf, and pod wall and their relationship to seed filling in soybeans

Bing Liu, Xiao-bing Liu, Cheng Wang, Jian Jin, S. J. Herbert

103

Sucrose accumulation in sugarcane is influenced by temperature and genotype through the carbon source–sink balance

N. G. Inman-Bamber, G. D. Bonnett, M. F. Spillman, M. H. Hewitt, D. Glassop

111

Root hair morphology and mycorrhizal colonisation of pasture species in response to phosphorus and nitrogen nutrition

J. O. Hill, R. J. Simpson, M. H. Ryan, D. F. Chapman

122

Crop/pasture protection

An epidemiological model for externally acquired vector-borne viruses applied to *Beet western yellows virus* in *Brassica napus* crops in a Mediterranean-type environment

T. Maling, A. J. Diggle, D. J. Thackray, K. H. M. Siddique, R. A. C. Jones

132

Crop/pasture improvement

QTLs and their interaction determining different heading dates of barley in Australia and China

Xifeng Ren, Chengdao Li, W. J. R. Boyd, Sharon Westcott, C. R. Grime, Dongfa Sun, Reg Lance

145

Genetics of late maturity α -amylase in a doubled haploid wheat population

M. K. Tan, A. P. Verbyla, B. R. Cullis, P. Martin, A. W. Milgate, J. R. Oliver

153

The response of rate and duration of grain filling to long-term selection for yield in Italian durum wheats

Rosella Motzo, Francesco Giunta, Giovanni Pruneddu

162

Pasture production and management

Impacts of grazing management options on pasture and animal productivity in a *Heteropogon contortus* (black speargrass) pasture in central Queensland. 1. Pasture yield and composition

D. M. Orr, W. H. Burrows, R. E. Hendrickson, R. L. Clem, P. V. Back, M. T. Rutherford,

D. J. Myles, M. J. Conway

170

Field studies of the effects of pre-sowing weed control and time of sowing on tropical perennial grass establishment, North-West Slopes, New South Wales

G. M. Lodge, M. A. Brennan, S. Harden

182

Critical factors influencing no-till establishment of short-term ryegrass (*Lolium multiflorum*) into a kikuyu (*Pennisetum clandestinum*) pasture

K. Sinclair, P. J. Beale

192

Corrigendum

201