

ANIMAL PRODUCTION SCIENCE

CONTENTS Volume 54, Issue 6, 2014, 645–830

SHEEP REPRODUCTION: PART 1

Foreword iv

The critical control points for increasing reproductive performance can be used to inform research priorities
J. M. Young, J. Trompf and A. N. Thompson 645–655

Lamb survival in Australian flocks: a review

G. N. Hinch and F. Brien 656–666

A review of the genetic and epigenetic factors affecting lamb survival

F. D. Brien, S. W. P. Cloete, N. M. Fogarty, J. C. Greeff, M. L. Hebart, S. Hiendleder, J. E. Hocking Edwards, J. M. Kelly, K. L. Kind, D. O. Kleemann, K. L. Plush and D. R. Miller 667–693

Vitamin E status and reproduction in sheep: potential implications for Australian sheep production

S. Liu, D. Masters, M. Ferguson and A. Thompson 694–714

Reproductive performance in the Sheep CRC Information Nucleus using artificial insemination across different sheep-production environments in southern Australia

K. G. Geenty, F. D. Brien, G. N. Hinch, R. C. Dobos, G. Refshauge, M. McCaskill, A. J. Ball, R. Behrendt, K. P. Gore, D. B. Savage, S. Harden, J. E. Hocking-Edwards, K. Hart and J. H. J. van der Werf 715–726

Increasing weight gain during pregnancy results in similar increases in lamb birthweights and weaning weights in Merino and non-Merino ewes regardless of sire type

B. L. Paganoni, M. B. Ferguson, G. A. Kearney and A. N. Thompson 727–735

Genetic parameters for lamb autopsy traits

D. J. Brown, R. M. Jones and G. N. Hinch 736–744

Sire effects on neonatal lamb vigour and following-behaviour

R. L. Hergenhan, G. N. Hinch and D. M. Ferguson 745–752

Genetic and phenotypic parameters between yearling, hogget and adult reproductive performance and age of first oestrus in sheep

J. E. Newton, D. J. Brown, S. Dominik and J. H. J. van der Werf 753–761

Early reproductive losses are a major factor contributing to the poor reproductive performance of Merino ewe lambs mated at 8–10 months of age

B. L. Paganoni, M. B. Ferguson, S. Ferrio, C. Jones, G. A. Kearney, P. R. Kenyon, C. Macleay, C. Vinoles and A. N. Thompson 762–772

The economic benefits of providing shelter to reduce the mortality of twin lambs in south-western Victoria

J. M. Young, G. Saul, R. Behrendt, F. Byrne, M. McCaskill, G. A. Kearney and A. N. Thompson 773–782

A survey of post-weaning mortality of sheep in Australia and its association with farm and management factors

A. J. D. Campbell, A. Broekhuizen, K. Curtis, K. P. Croker, R. Behrendt and A. N. Thompson 783–790

Seasonal reproductive performance of crossbred ewes in intensive lamb-production systems

N. M. Fogarty and J. G. Mulholland 791–801

Season and reproductive status rather than genetics factors influence change in ewe weight and fat over time. 1. Analysis of crossbred ewes

S. F. Walkom, F. D. Brien, M. L. Hebart, N. M. Fogarty, S. Hatcher and W. S. Pitchford 802–813

Season and reproductive status rather than genetic factors influence change in ewe weight and fat over time. 2. Spline analysis of crossbred ewes

S. F. Walkom, F. D. Brien, M. L. Hebart, N. M. Fogarty, S. Hatcher and W. S. Pitchford 814–820

Season and reproductive status rather than genetics factors influence change in ewe weight and fat over time. 3. Analysis of Merino ewes

S. F. Walkom, F. D. Brien, M. L. Hebart, S. I. Mortimer and W. S. Pitchford 821–830