

Publications may be directly related to CRC for Forestry research, or the research was carried out by CRC for Forestry related staff

### Refereed journal articles (in press)

- Acuna M, Kellogg L (2009 in press) Evaluation of alternative cut-to-length harvesting technology for native forest thinning in Australia. *International Journal of Forest Engineering*.
- Allen DE, Mendham DS, Singh B, Cowie A, Wang W, Dalal RC, Raison RJ (2009 in press) Nitrous oxide and methane emissions from soil are reduced following afforestation of pasture lands in three contrasting climatic zones. *Australian Journal of Soil Research*.
- Barbour RC, Baker SC, O'Reilly-Wapstra JM, Harvest TMA, Potts BM (2009 in press) A footprint of tree-genetics on the biota of the forest floor. *Oikos*.
- Barbour RC, Forster LG, Baker SC and Potts BM (2009 in press) Biodiversity consequences of genetic variation in bark characteristics within a foundation tree species *Conservation Biology*.
- Barbour RC, Storer MJ and Potts BM (2009 in press) Relative importance of tree genetics and microhabitat on macrofungal biodiversity on coarse woody debris. *Oecologia*.
- Bradbury G, Beadle CL, Potts BM (2009 in press) Genetic control of survival, growth and form in Australian Blackwood. *New Forests*.
- Downes GF, Drew D, Battaglia M, Schultze D (2009 in press) Measuring and modelling stem growth and wood formation: An overview. *Dendrochronologica*.
- Downes GM, Drew DM, Battaglia M and Schulze ED (2009 in press) Measuring and modelling stem growth and wood formation: An overview. *Dendrochronologica*.
- Franks PJ, Drake PL, Beerling DJ (2009 in press) Plasticity in maximum stomatal conductance constrained by negative correlation between stomatal size and density: An analysis using *Eucalyptus globulus*. *Plant, Cell and Environment*.
- Freeman JS, Whittock SP, Potts BM, Vaillancourt RE (2009 in press). QTL influencing growth and wood properties in *Eucalyptus globulus*. *Tree Genetics and Genomes*.
- Gates G, Ratkowsky D, Grove SJ (2009 in press) Aggregated retention and macrofungi: a case study from the Warra LTER site, Tasmania. *Tasforests*.
- Grove SJ (2009 in press) Beetles and fuelwood harvesting: a retrospective study from Tasmania's southern forests. *Tasforests*.
- Macinnis-Ng, Fuentes S, O'Grady AP, Palmer AR, Taylor D, Whitley RJ, Yunusa I, Zeppel MJB, Eamus D (2009 in press). Root biomass distribution and soil properties of an open woodland on a duplex soil. *Plant and Soil*.
- McArthur C, Loney PE, Davies NW, Jordan GJ (2009 in press). Early ontogenetic trajectories vary among defence chemicals in seedlings of a fast-growing eucalypt. *Austral Ecology*.
- Miller AM, McArthur C, Smethurst PJ (2009 in press) Spatial scale and opportunities for choice influence browsing and associational refuges of focal plants. *Journal of Animal Ecology*.
- Mimura M, Barbour RC, Potts BM, Vaillancourt RE, Watanabe KN (2009 in press) Inbreeding and pollination distance in continuous and fragmented forest landscapes. *Molecular Ecology*.
- Mitchell AD, Smethurst PJ (2009 in press) Magnesium and potassium deficiency induced in glasshouse-grown *Eucalyptus globulus*. *Tasforests* 18.
- Nevill P, Bossinger G, Ades P (2009 in press) Phylogeography of the Australian montane species an world's tallest angiosperm *Eucalyptus regnans*. *Journal of Biogeography*.
- Pinkard EA, Battaglia M, Bruce J, Kriticos DJ (2009 in press) Process-based modeling of the severity and impact of foliar pest attack on eucalypt plantation productivity under current and future climates. *Forest Ecology and Management*.
- Pinkard EA, Battaglia M, Bruce J, Leriche A, Kriticos D (2009 in press) Process-based modelling of the severity and impact of foliar pest attack on eucalypt plantation productivity under current and future climates. *Forest Ecology and Management*.

- Quentin AG, Pinkard EA, Beadle CL, Wardlaw TJ, O'Grady AP, Paterson S, Mohammed CL (2009 in press) Do artificial and natural defoliations have similar effects on physiology of *Eucalyptus globulus* Labill. seedlings? *Annals of Forest Science*.
- Rapley LP, Potts BM, Battaglia M, Patel VS, Allen GR (2009 in press) Long-term realised and projected growth impacts caused by autumn gum moth defoliation of 2-year-old *Eucalyptus nitens* plantation trees in Tasmania, Australia. *Forest Ecology and Management*.
- Strandgard M (2009 in press) Evaluation of log measurement errors as related to harvester log measurement accuracy. *International Journal of Forest Engineering*.
- Suitor S, Brown PH, Gracie AJ, Potts BM, Rix KD, Gore PL (2009 in press) The impact of resource competition on capsule set in *Eucalyptus globulus* seed orchards and its manipulation through irrigation management. *New Forests*.
- Suitor S, Potts BM, McGowen MH, Pilbeam DJ, Brown PH, Gracie AJ, Gore PL (2009 in press) The relative contribution of the male and female to the variation in reproductive success in *Eucalyptus globulus*. *Silvae Genetica*.
- Valencia J, Harwood C, Washusen R, Morrow A, Wood M, Volker P (2009 in press). Longitudinal growth strain as a log and wood quality predictor for plantation-grown *Eucalyptus nitens* sawlogs. *Wood Science and Technology*.
- Verbesselt J, Hyndman R, Newnham G, Culvenor D (2009 in press) Detecting trend and seasonal changes in satellite image time series. *Remote sensing of Environment*.
- Verbesselt J, Robinson A, Stone C, Culvenor D (2009 in press) Forecasting tree mortality using change metrics derived from MODIS satellite data. *Forest Ecology and Management*.
- Wardlaw TJ, Grove SJ, Yee M, Hopkins AJM, Harrison KS, Mohammed CL (2009 in press) Uniqueness of habitats in old eucalypts: Contrasting the wood-decay and saproxylic beetles of young and old eucalypts. *Tasforests*.

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### Refereed journal articles (published)

- Baker SC, Grove SJ, Forster L, Bonham KJ, Bashford D (2009) Short-term responses of ground-active beetles to alternative silvicultural systems in the Warra Silvicultural Systems Trial, Tasmania, Australia. *Forest Ecology and Management* 258, 444-459.
- Barbour RC, O'Reilly-Wapstra JM, de Little DW, Jordan GJ, Steane DA, Humphreys JR, Bailey JK, Whitham TG and Potts BM (2009) A geographic mosaic of genetic variation within a foundation tree species and its community-level consequence. *Ecology* 90(7), 1762–1772.
- Barry KM, Stone C, Mohammed CL (2008) Crown-scale evaluation of spectral indices for defoliated and discoloured eucalypts. *International Journal of Remote Sensing* 29, 47-69.
- Battaglia M, Mohammed, CA (2009) Forest Health: Building resilient systems that can adapt to change. *Australian Forest Grower* 32, 38-39.
- Beadle C, Duff G, Richardson A (2009) Preface. *Forest Ecology and Management* 258, 339-340.
- Beadle C, Duff, G, Richardson, A (Editors) (2009) Old Forests New Management. The conservation and use of old-growth forests in the 21<sup>st</sup> Century. *Forest Ecology and Management* 258, 339-540.
- Beadle C, Volker P, Bird T, Mohammed C, Barry K, Pinkard L, Wiseman D, Harwood C, Washusen R, Wardlaw T, Nolan G (2008) Solid-wood production from temperate eucalypt plantations: a Tasmanian case study. *Southern Forests* 70, 45-57.
- Cawthen L, Munks S, Richardson A, Nicol SC (2009) The use of temperature loggers to monitor tree hollow use by mammals. *Ecological Management and Restoration* 10 (2), 155-157.
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- Close DC, Davidson NJ, Watson T (2008) Health of remnant woodlands in fragments under distinct grazing regimes. *Biological Conservation* 141, 2395-2402.
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- Downes GM, Drew DM (2008) Climate and Growth Influences on Wood Formation and Utilisation. *Southern Forests* 70, 155-167.
- Drake PL, Mendham DS, White DA, Ogden GN (2009) A comparison of growth, photosynthetic capacity and water stress in *Eucalyptus globulus* coppice regrowth and seedlings during early development. *Tree Physiology* 29, 663-674.
- Drew D, O'Grady AP, Downes G, Read J, Worledge, D, (2008) Daily stem growth patterns in irrigated and non-irrigated *Eucalyptus globulus*. *Tree Physiology* 28, 1573-1581.
- Drew DM, Downes GM, Grzeskowiak V, Naidoo T (2009) Differences in daily stem size variation and growth in two hybrid eucalypt clones. *Trees: Structure and Function* 23, 585-595.
- Drew DM, Downes GM, O'Grady AP, Read J (2009) Drought and temperature induced wood property variation in irrigated and non-irrigated *Eucalyptus globulus*. *Annals of Forest Science* 66(4), 1-406.
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- Drew DM, Schulze ED, Downes GM (2008) Temporal variation in  $\delta^{13}C$ , wood density and microfibril angle in variously irrigated *Eucalyptus nitens*. *Functional Plant Biology* 36, 1-10.
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- Grove SJ, Stamm L, Barry C (2009). Log decomposition rates in Tasmanian *Eucalyptus obliqua* determined using an indirect chronosequence approach. *Forest Ecology and Management* 258, 389-397.
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- Mendham DS, Kumaraswamy S, Sankaran KV, Smitha John K, Grove TS, O'Connell AM, Rance SJ, Sujatha MP (2009) An assessment of soil-based indicators of response to nitrogen fertilizer across four tropical eucalyptus plantations. *Journal of Forestry Research* 20, 237–242.
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- Thu P, Dell B, Burgess TI (2009) Susceptibility of 18 eucalypt species to the gall wasp *Leptocybe invasa* in the nursery and young plantations in Vietnam. *Science Asia* 35, 113-117.
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#### Books (including edited books)

- Baral H (2008) Application of GIS in Community Forestry: Integration of GIS technology with community participation. VDM Verlag. ISBN 978-3639034165.
- Beadle C, Duff G, Richardson A. (Editors) (2009) Old Forests New Management. The conservation and use of old-growth forests in the 21st Century. *Forest Ecology and Management* 258, 339-540.
- Lefroy T, Bailey K, Norton T and Unwin G (eds.) (2008) Biodiversity: Integrating Conservation and Production. Case Studies from Australian Forests and Fisheries, CSIRO Publishing, Collingwood, Victoria, pp. i-x, 1-272. ISBN 9780643094581 (2008) [Edited Book] 272 pages.

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#### Book chapters

- Mendham DS, Grove TS, O'Connell AM, Rance SJ (2008) Impacts of inter-rotation site management on soil nutrients and plantation productivity in *Eucalyptus globulus* plantations in south-western Australia. In 'Site management and productivity in tropical plantation forests: Proceedings of workshops in Piracicaba (Brazil), 22-26 November 2004 and Bogor (Indonesia), 6-9 November 2006' (Ed. EKS Nambiar) P79-92 (Centre for International Forestry Research: Bogor, Indonesia).
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Whitham TG, Gehring CA, Evans LM, LeRoy CJ, Bangert RK, Schweitzer JA, Allan, GJ, Barbour RC, Fischer DG, Potts BM, Bailey JK (2009 in press). A community and ecosystem genetics approach to conservation biology and management. Chapter 4 in 'Molecular insights into natural resource conservation and management'. (Eds A DeWoody, Bickham JW, Michler C, Nichols KM, Rhodes Jr OE and Woeste K). (Cambridge University Press) (invited review)

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## Confidential reports

- Archibald R (2008) Using fire to manage biodiversity in remnant forests within plantations. Report (1) to WA industry partners in CRC for Forestry: Biodiversity Project.
- Archibald R (2009) Restoring degraded remnants within plantations: report on a workshop held in Albany WA at the Department of Agriculture and Food on 12 May 2009. Report to members of the CRC for Forestry.
- Archibald R, Craig M (2009) Vertebrate fauna in plantations in the Albany area. Report (3) to WA industry partners in CRC for Forestry: Biodiversity Project.
- Archibald R, Hardy G (2009) Maintaining tree health in WA forest remnants: assessment, monitoring and management. Report (2) to WA industry partners in CRC for Forestry: Biodiversity Project.
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nesting success of the Tasmanian wedge-tailed eagle and environmental variables, Forest Practices Authority Scientific Report 8, report to Roaring 40s and the Forest Practices Authority.

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- Baker T, Wiedemann J, Dumbrell I, McGuire D, Acuna M, Knott J (2009) Effect of stocking on growth, yield, tree diameter class distribution, harvesting cost and financial return in *Eucalyptus globulus* pulpwood plantations in Western Australia. CRC for Forestry Technical Report No. 197.
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