

SCIENCE COMMUNICATIONS

June 2005-October 2005

Science Division Mission: The provision of up-to-date and scientifically sound information to uphold effective conservation and land management in Western Australia
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Science Communications lists titles of publications, reports etc prepared by Science Division staff. This issue is for the period June 2005 to October 2005. If you require a copy of a **submitted** paper please contact the author. For all other titles please contact Lisa Wright at Woodvale.

Neil Burrows
Director

Journal Publications

Algar D, Burrows ND (2004) Feral cat control research: Western Shield review, February 2003. *Conservation Science Western Australia* **5(2)**, 131-163.

Blyth J, Burbidge AA (2004) Threatened fauna issues not covered under Western Shield: Western Shield review, February 2003. *Conservation Science Western Australia* **5(2)**, 164-173.

Bullen RD, McKenzie NL (2005) Seasonal range variation of *Tadarida australis* (Chiroptera: Molossidae) in Western Australia: the impact of enthalpy. *Australian Journal of Zoology* **53**, 145-156.

Burbidge AA (2004) Montebello renewal: Western Shield review, February 2003. *Conservation Science Western Australia* **5(2)**, 194-201.

De Tores PJ, Hayward MW, Rosier SM (2004) The western ringtail possum, *Pseudocheirus occidentalis*, and the quokka, *Setonix brachyurus* case studies: Western Shield review, February 2003. *Conservation Science*

Western Australia **5(2)**, 235-257.

Durrant BJ (2004) Biogeographical patterns of zodariid spiders (Araneae: Zodariidae) in the wheatbelt region, Western Australia. *Records of the Western Australian Museum Supplement* **67**, 217-230.

Durrant BJ, Guthrie NA (2004) Faunas of unflooded saline wetland floors of the Western Australian wheatbelt. *Records of the Western Australian Museum Supplement* **67**, 231-256.

Friend T, Beecham B (2004) Return to Dryandra: Western Shield review, February 2003. *Conservation Science Western Australia* **5(2)**, 174-193.

Gibson N (2005) A new species of *Isopogon* (Proteaceae) from southwest Western Australia. *Muelleria* **21**, 97-99.

Guthrie NA, Waldock JM (2004) Patterns on the composition of the jumping spider (Arachnida: Araneae: Salticidae) assemblage from the wheatbelt region, Western Australia. *Records of the Western Australian Museum Supplement* **67**, 203-216.

Halse SA, Lyons MN, Pinder AM, Shiel RJ (2004) Biodiversity patterns and their conservation in wetlands of the Western Australian wheatbelt. *Records of the Western Australian Museum Supplement* **67**, 337-364.

Halse SA, Pearson GB, Hassell C, Collins P, Scanlon MD, Minton CDT (2005) Mandora Marsh, north-western Australia, an arid zone wetland maintaining continental populations of waterbirds. *Emu* **105**, 115-125.

Harvey MS, Waldock JM, Guthrie NA, Durrant BJ, McKenzie NL (2004) Patterns in the composition of ground-dwelling araneomorph spider communities in the Western Australian wheatbelt. *Records of the Western Australian Museum Supplement* **67**, 257-291.

Hayward MW, de Tores PJ, Banks PB (2005) Habitat use of the quokka, *Setonix brachyurus* (Macropodidae: Marsupialia) in the northern jarrah forest of Australia. *Journal of*

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- Mammalogy **86**, 683-688.
- Hayward MW, de Tores PJ, Dillon MJ, Fox BJ, Banks PB (2005) Using faecal pellet counts along transects to estimate quokka (*Setonix brachyurus*) population density. *Wildlife Research* **32**, 503-507.
- Keighery GJ, Halse SA, McKenzie NL, Harvey MS (2004) A biodiversity survey of the Western Australian agricultural zone. *Records of the Western Australian Museum Supplement* **67**, 1-384.
- Lyons MN, Gibson N, Keighery GJ, Lyons SD (2004) Wetland flora and vegetation of the Western Australian wheatbelt. *Records of the Western Australian Museum Supplement* **67**, 39-89.
- Matheny PB, Bougher NL (2005) A new violet species of *Inocybe* (Agaricales) from urban and rural landscapes in Western Australia. *Australasian Mycologist* **24**, 7-12.
- Mawson PR, Start AN (2004) Summary review of public submissions on the 2003 independent review of the Western Shield program. *Conservation Science Western Australia* **5(2)**, 12-18.
- McKenzie NL, Gibson N, Keighery GJ, Rolfe JK (2004) Patterns in the biodiversity of terrestrial environments in the Western Australian wheatbelt. *Records of the Western Australian Museum Supplement* **67**, 293-335.
- Morris K, Sims C, Himbeck K, Christensen P, Sercombe N, Ward B, Noakes N (2004) Project Eden: fauna recovery on Peron Peninsula, Shark Bay: Western Shield review, February 2003. *Conservation Science Western Australia* **5(2)**, 202-234.
- Pearson D, Shine R, Williams A (2005) Spatial ecology of a threatened python (*Morelia spilota imbricata*) and the effects of anthropogenic habitat change. *Austral Ecology* **30**, 261-274.
- Pinder AM, Halse SA, McRae JM, Shiel RJ (2004) Aquatic invertebrate assemblages of wetlands and rivers in the wheatbelt region of Western Australia. *Records of the Western Australian Museum Supplement* **67**, 7-37.
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- Robinson RM, Spencer M (2004) Coppice treatment gives hope to rare and endangered mallee eucalypt in the south-west of Western Australia. *Journal of the Royal Society of Western Australia* **87**, 109-114.
- Science Division, Department of Conservation and Land Management (2004) Conservation science Western Australia. - Vol. 5, no. 2. CALM, Perth.
- Science Division, Department of Conservation and Land Management (2005) Science communications. - March 2005-May 2005. CALM, Perth.
- Shepherd KA, Macfarlane TD, Colmer TD (2005) Morphology, anatomy and histochemistry of Salicornioideae (Chenopodiaceae) fruits and seeds. *Annals of Botany* **95**, 917-933.
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- Warren K, Swan R, Bodetti T, Friend T, Hill S, Timms P (2005) Ocular *Chlamydiales* infections of western barred bandicoots (*Perameles bougainville*) in Western Australia. *Journal of Zoo and Wildlife Medicine* **36**, 100-102.
- Wayne AF, Ward CG, Rooney JF, Vellios CV, Lindenmayer DB (2005) The life history of *Trichosurus vulpecula hypoleucus* (Phalangeridae) in the jarrah forest of southwestern Australia. *Australian Journal of Zoology* **53**, 265-278.
- Yates CJ, Ladd PG (2005) Relative importance of reproductive biology and establishment ecology for persistence of a rare shrub in a fragmented landscape. *Conservation Biology* **19**, 239-249.

Books

- Barrett S, Cochrane A (2005) *Wildflowers of the Stirling Range*. Department of Conservation and Land Management, Western Australia, Bush Books
- Coates D, Crawford A, Dixon K, McArthur S, Monks L, Rokich D et al. (2005) *Advances in Plant Conservation Biology: Implications for Flora Management and Restoration: Symposium Program and Abstracts, Perth, Western Australia, 25-27 October 2005*.

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Department of Conservation and Land Management, Perth.

Conference/Workshop Papers

Coates DJ, Byrne M, Elliott C, Sampson J, Yates C (2005) Gene flow and outcrossing in a fragmented landscape: implications for seed sourcing from small remnants. In *Proceedings of the Fifth Australian Workshop on Native Seed Biology, Brisbane, 21-23 June 2004* (eds SW Adkins, SM Bellairs). 37-44. Australian Centre for Mining Environmental Research, Kenmore.

Cochrane JA, Yates CJ (2005) Conservation biology of a critically endangered shrub, *Cyphanthera odgersii* (F. Muell.) Haegi subspecies *occidentalis* Haegi (Solanaceae). In *Proceedings of the Fifth Australian Workshop on Native Seed Biology, Brisbane, 21-23 June 2004* (eds SW Adkins, SM Bellairs). 173-181. Australian Centre for Mining Environmental Research, Kenmore.

George N, Byrne M, Yan G (2005) Genetic diversity and feed quality variation in *Acacia saligna*, implications for using the species in dryland salinity management. In *International Salinity Forum: Managing Saline Soils and Water: Science, Technology and Social Issues: April 25-27, Riverside Convention Center, Riverside, California* 191-194. ISF, Riverside.

Wittkuhn R, Hamilton T, McCaw L, Metcalfe F, Carpenter C (2005) Learning from the past: the many uses of fire history mapping (POSTER). In *Bushfire CRC Fire Managers' Research Meeting, Beechworth, Victoria, 6-9 June 2005* 1 poster

Wittkuhn R, Hamilton T, McCaw L, Metcalfe F, Carpenter C (2005) Learning from the past: the many uses of fire history mapping (POSTER). In *Australasian Fire Authorities Council and Bushfire CRC Innovation and Technology Conference Proceedings, Auckland, NZ, 5-7 Oct 2005* 1 poster

Abstracts

Byrne M (2005) The influence of the past in the present: phylogeography in the ancient Australian landscape. In *Advances in Plant Conservation Biology: Implications for Flora Management and Restoration: Symposium Program and Abstracts, Perth, Western Australia, 25-27 October 2005* 7 Department of Conservation and Land Management, Perth.

Coates DJ, Sampson JF (2005) Plant mating systems in conservation and assessing population persistence. In *Advances in Plant*

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Crawford AD, Cochrane JA, Steadman KJ, Plummer JA, Probert RJ (2005) Successful storage of seed from threatened west Australian plants (POSTER ABSTRACT). In *Advances in Plant Conservation Biology: Implications for Flora Management and Restoration: Symposium Program and Abstracts, Perth, Western Australia, 25-27 October 2005* 26 Department of Conservation and Land Management, Perth.

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- Keighery G, Gibson N, Patrick S, Lyons M, van Leeuwen S (2005) Biological survey and priorities for flora conservation. In *Advances in Plant Conservation Biology: Implications for Flora Management and Restoration: Symposium Program and Abstracts, Perth, Western Australia, 25-27 October 2005* 6 Department of Conservation and Land Management, Perth.
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- Shearer BL, Crane CE (2005) The influence of soil from a topographic gradient in the Fitzgerald River National Park on mortality of *Banksia baxteri* following infection by *Phytophthora cinnamomi* (POSTER ABSTRACT). In *Advances in Plant Conservation Biology: Implications for Flora Management and Restoration: Symposium Program and Abstracts, Perth, Western Australia, 25-27 October 2005* 35 Department of Conservation and Land Management, Perth.
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- Barrett S, Cochrane A (2004) 'Seedling survival, soil seed bank status and disturbance response of the endangered *Dryandra ionthocarpa* A.S. George ssp. *ionthocarpa* ms (Proteaceae): final report to BankWest Landscape Visa Conservation Card Trust

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- Bougher N (2005) 'PUBF fungi kit for Fungi Workshop, Hartfield Park, July 10th 2005'. Perth Urban Bushland Fungi, Perth.
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- De Tores P, Marlow N, Algar D (2005) 'A proposal to expand Western Shield: an integrated approach to best practice vertebrate pest control for positive conservation outcomes as a landscape and local scale'. Department of Conservation and Land Management, Perth.
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- McKenzie N, Keighery G, Gibson N (2005) 'IBRA sub_ regions in WA'. - Rev.. Department of Conservation and Land Management, Perth.
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- Young A, Broadhurst L, Coates D, Byrne M, Yates C, Elliott C, Field D, Gage C, Hobbs R (2005) 'Land and Water project number CPI 10: Genetic and ecological viability of plant populations in remnant vegetation'. CSIRO, Canberra.

Popular (Landscape, Newsletters, Letters, etc.)

- Algar D (2005) Feral cats under examination. *Conservation News* **May**, 6
- Barrett B (2005) The secret life of the western ground parrot. *Landscape* **21(1)**, 27-31.
- Barrett B (2005) Western ground parrot in Cape Arid National Park. *Western Australian Bird Notes* **115**, 14
- Bougher N (2005) Perth urban bushland fungi field book: a self-managed format. Available at <http://www.fungiperth.org.au> [accessed 25 Jul 2005]
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- Burrows N (2005) Burning rocks. *Landscape* **20(4)**, 54-61.
- Burrows N (2005) Bushfire diversity can promote biodiversity. *Western Wildlife: Newsletter of the Land for Wildlife Scheme* **9(3)**, 8-9.
- Cochrane A, Barrett S (2005) Voyage to the Bay of Isles. *Landscape* **20(4)**, 32-39.
- De Tores P, Guthrie N, Jackson J, Bertram I (2005) The western ringtail possum: a resilient species or another taxon on the decline?. *Western Wildlife: Newsletter of the Land for Wildlife Scheme* **9(3)**, 4-5.
- De Tores P, Rosier S, Guthrie N, Jackson J, Bertram I (2005) The western ringtail possum. Part 2. *Western Wildlife: Newsletter of the Land for Wildlife Scheme* **9(4)**, 1, 4-5.
- Friend T (2005) How to keep a numbat happy. *Wildlife Australia* **42(2)**, 12-15.
- Friend T, Hill S, Button T (2005) Bald Island getaway for Gilbert's potoroos. *Landscape* **21(1)**, 48-54.
- Keighery GJ (2005) A new species of *Amblyosperma* (Asteraceae: Mutisieae). *Compositae Newsletter* **42**, 26-31.
- Muir G, Wilson G, Manning J, van Heurck P (2005) Discovering Walpole's spineless wonders: the Nuyts Wilderness Invertebrates Fire Research Project. *Landscape* **21(1)**, 56-61.
- Pearson D, Comer S, Cochrane A, Gilfillan S (2005) Return to Mondrain. *Landscape* **20(1)**, 40-44.
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- Shearer B, Crane C, Cochrane A (2005) A thief of time: *Phytophthora cinnamomi* and threatened flora. *Australasian Plant Conservation* **13(4)**, 14-15.
- Wege J (2005) Blooming spectacular. *Landscape* **21(1)**, 39-44.
- Macfarlane TD (2005) Tribe Amphipogoneae. In *Flora of Australia. Volume 44B, Poaceae* 3 (ed K Mallett). pp. 9-18. ABRS, Melbourne.

Submitted

- Aubret F, Bonnet X, Pearson D, Shine R How can blind tigersnakes forage successfully?. *Behavioral Ecology*
- Austen J, Adams P, Clark P, Reid S, Friend T Isolation and identification of *Trypanosoma* species in Gilbert's potoroo (*Potorous gilbertii*) (POSTER ABSTRACT). In *Wildlife Disease Association International Conference, Cairns, 2005*
- Byrne M, Stone L, Millar M Environmental risk in agroforestry. In *Agroforestry for Natural Resource Management*
- Coates DJ Plant variation in the wild: patterns of genetic variation in the flora of southwest Western Australia. In *Proceedings of the 23rd Biennial Conference of the Association of Societies for Growing Australian Plants*
- Coates DJ, Tischler G, McComb JA Genetic variation and the mating system in the rare ghost wattle, *Acacia sciophanes* compared with its common sister species *Acacia anfractuosa* (Mimosaceae). *Conservation Genetics*
- Cochrane A, Schreck S Evaluating salt and waterlogging stress in Western Australian endemic flora: seed germination and seedling tolerance. *Australian Journal of Botany*
- De Tores P Quokka, *Setonix brachyurus*. In *Mammals of Australia* (ed SM van Dyck).
- De Tores P Western ringtail possum, *Pseudocheirus occidentalis*. In *Mammals of Australia* (ed SM van Dyck).
- De Tores P, Start T Brush-tailed bettong, *Bettongia penicillata*. In *Mammals of Australia* (ed SM van Dyck).
- Diels L The plant life of Western Australia south of the Tropic (trans BJ Grieve, BB Lamont, EO Hellmuth, ed N Gibson). *Conservation Science Western Australia*
- Friend T Beautiful tails and sudden death. *Nature Australia*
- George N, Byrne M, Yan G High levels of outcrossing in *Acacia saligna* as revealed by allozyme variation: implications for domestication. *Australian Journal of Botany*

Species account

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- George N, Henry D, Yan G, Byrne M Variability in feed quality between populations of *Acacia saligna* and its correlation with genetic variation: implications for domestication. *Australian Journal of Botany*
- Hanold D, Gowanlock D, Stukely MJC, Habili N, Randles JW Mundulla yellows disease of eucalypts: descriptors and preliminary studies on distribution and etiology. *Australasian Plant Pathology*
- Keighery, GJ A new subspecies of *Rorippa* Scop. (Brassicaceae) from Western Australia. *Nuytsia*
- Keighery GJ Twenty years of pant survey across the State: plant communities, new and lost species. In *Proceedings of the 13th Australian Plant Societies Conference*
- Langlands P, Brennan K, Pearson D Spiders, spinifex, rainfall and fire: long-term changes in a community of desert spiders. *Journal of Arid Environments*
- Maslin BR, Elliott CP *Acacia splendens* (Leguminosae: Mimosoideae), a new, rare species from near Dandaragan, Western Australia. *Nuytsia*
- Muir K, Byrne M, Barbour E, Cox MC, Fox JED High levels of outcrossing in a provenance trial of Western Australian sandalwood (*Santalum spicatum*). *Tree Genetics and Genomes*
- Pearson D *Snakes of Western Australia*. Department of Conservation and Land Management, Western Australia, Bush Books
- Stone L, Byrne M, Lefroy T Managing weed risk in perennial systems. In *Proceedings of NSW Node Meeting of CRC for Plant-Based Management of Dryland Salinity, Orange, March 2005*
- Stone L, Seaton K, Byrne M, McComb J A study of the reproductive biology of blue-flowered *Conospermum* species (Proteaceae). *Australian Journal of Botany*
- Vaughan RJ, Vitali SD, Eden PA, Payne K, Warren KS, Forshaw D, Horwitz A-M, Friend T, Krockenberger M Cryptococcal infections in captive Gilbert's (*Potorous gilbertii*) & long nosed (*Potorous tridactylus*) potoroos (ABSTRACT). In *Wildlife Disease Association International Conference, Cairns, 2005*
- Warren K, O'Hara A, Swan R, Ducki A, Timms P, Bodetti T, Sims C, Friend T, Hill S, Thomas N Investigation of cutaneous papillomatosis and ocular *Chlamydiales* infection affecting endangered western barred bandicoots (*Perameles bougainville*) in the wild. In *Wildlife Disease Association International Conference, Cairns, 2005*
- Williams AAE, Algar D First record of *Euchrysops cnejus* (Fabricius) (Lepidoptera: Lycaenidae) on Christmas Island. *Australian Entomologist*
- Williams AAE, Williams MR Endangered or extinct?: Kalgoorlie's arid bronze azure. *Landscape*
- Williams MR Methods for assessing butterfly biodiversity in temperate regions: a literature review and recommendations based on surveys in southwestern Australia. *Biological Conservation*

Science Project Plans

No Science Project plans have been recently approved.

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