

LIST OF PUBLICATIONS:

Refereed papers and chapters in journals, books and conference proceedings

1. Greene, R.S.B., Posner, A.M., and Quirk, J.P. (1973). Factors affecting the formation of quasi-crystals of montmorillonite. *Soil Sci. Soc. Am. Proc.* 37, 457-460.
2. Greene, R.S.B., Murphy, P.J., Posner, A.M. and Quirk, J.P. (1974). A preparative technique for electron microscopic examination of colloid particles. *Clays Clay Miner.*, 22, 185-188.
3. Kavanagh, B.V., Greene, R.S.B., Posner, A.M. and Quirk, J.P. (1977). The effect of temperature on sterically stabilized clay suspensions. *J. Coll. Interface Sci.* 62, 182-184.
4. Greene, R.S.B., Posner, A.M., and Quirk, J.P. (1978). A study of the coagulation of montmorillonite and illite suspensions by calcium chloride using the electron microscope, pp. 35-40. In W.W. Emerson, R.D. Bond and A.R. Dexter (eds). "Modification of soil structure". Wiley, NY.
5. Greene, R.S.B., Posner, A.M., and Quirk, J.P. (1978). Interactions of suspensions of Ca-illite with PVA and Ca(OH)₂, pp. 157-163. In W.W. Emerson, R.D. Bond, and A.R. Dexter (eds). "Modification of soil structure". Wiley, NY.
6. Collis-George, N., and Greene, R.S.B. (1979). The effect of aggregate size on the infiltration behaviour of a slaking soil and its relevance to ponded irrigation. *Aust. J. Soil Res.* 17, 65-73.
7. Greene, R.S.B., and Wilson, I.B. (1984). Some physico-chemical properties of an exposed B horizon of a red-brown earth treated with gypsum. *Aust. J. Soil Res.* 22, 357-63.
8. Rengasamy, P., Greene, R.S.B., and Ford, G.W. (1984). The role of clay fraction in the particle arrangement and stability of soil aggregates - a review. *Clay Res.* 3, 53-67.

9. Rengasamy, P., Greene, R.S.B., Ford, G.W., and Mehanni, A.H. (1984). Identification of dispersive behaviour and the management of red-brown earths. *Aust. J. Soil Res.* 22, 413-31.
10. Chartres, C.J., Greene, R.S.B., Ford, G.W., and Rengasamy, P. (1985). The effect of gypsum on macroporosity and crusting of two red duplex soils. *Aust. J. Soil Res.* 23, 467-79.
11. Donohue, G.I., Greene, R.S.B., Willoughby, P., and Wilson, I.B. (1985). The effects of water-logging on flood irrigated perennial ryegrass. In "Root Zone Limitations to Crop Production on Clay Soils" (Eds. W.A. Muirhead and E. Humphries). pp. 85-92. Symp. Aust. Soc. Soil Sci. Inc. Riverina Branch, Griffith, NSW.
12. Greene, R.S.B., and Ford, G.W. (1985). The effect of gypsum on cation exchange in two red duplex soils. *Aust. J. Soil Res.* 23, 61-74.
13. Greene, R.S.B., and Wilson, I.B. (1985). The improvement of soil structure of an exposed B horizon on a red-brown earth. In "Root Zone Limitations to Crop Zone Limitations to Crop production on Clay Soils" (Eds. WA. Muirhead and E. Humphries). pp. 128-133. Symp. Aust. Soc. Soil Sci., Riverina Branch, Griffith, NSW.
14. Rengasamy, P., Greene, R.S.B., and Ford, G.W. (1986). Influence of magnesium on aggregate stability in sodic red brown earths. *Aust. J. Soil Res.* 24, 229-37.
15. Greene, R.S.B., Rengasamy, P., Ford, G.W., Chartres, C.J. and Millar, J.J. (1988). The effect of sodium and calcium on the physical properties and micromorphology of two red-brown earth soils. *J. Soil Sci.* 39, 639-48.
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18. Greene, R.S.B. and Tongway, D.J. (1989). The significance of (surface) physical and chemical properties in determining soil surface conditions of red earths in rangelands. *Aust. J. Soil Res.* 27, 213-225.

19. Greene, R.S.B. and Wilson, I.B. (1989). Amelioration of some physical properties and nutrient availability of an exposed B horizon of a red-brown earth. *Soil Use and Management*. 5, 66-71.
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21. Greene, R.S.B. (1992). Soil physical properties of three geomorphic zones in a semi-arid mulga woodland. *Aust. J. Soil Res.* 30, 55-69.
22. Greene, R.S.B. and Sawtell, G.R. (1992). A collection system for measuring runoff and soil erosion with a mobile rainfall simulator on crusted and stony red earth soils. *Aust. J. Soil Res.* 30, 457-63.
23. Greene, R.S.B. (1993). Infiltration measurements in the semi-arid woodlands of eastern Australia-a comparison of methods. Proceedings of the XVII International Grassland Congress. Palmerston North, New Zealand. 79-80.
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26. Greene, R.S.B., Kinnell, P.I.A., and Wood, J.T. (1994). Role of plant cover and stock trampling on runoff and soil erosion from semi-arid wooded rangelands. *Aust. J. Soil Res.* 32, 953-73.
27. Greene, R.S.B., and Ringrose-Voase, A.J. (1994). Micromorphological and hydraulic properties of surface crusts formed on a red earth soil in the semi-arid rangelands of eastern Australia. Proceedings of the IX International Working Meeting on Soil Micromorphology. Townsville, Queensland, Australia. (Elsevier Science Publishers). 763-776.

28. Eldridge, D.J., and Greene, R.S.B. (1994). Microbiotic soil crusts: a review of their roles in soil and ecological processes in the rangelands of Australia. *Aust. J. Soil Res.* 32, 389-415.
29. Greene, R.S.B., and Nettleton, W.D. (1995). Soil genesis in a longitudinal dune-swale landscape, NSW, Australia. *AGSO J. Aust. Geol. Geophy*, 16, 277-287.
30. Eldridge, D.J., Chartres, C.J., Greene, R.S.B., and Mott, J.J. (1995). Management of crusting and hardsetting soils under rangelands conditions. Proceedings of second international symposium on sealing, crusting and hardsetting soils: productivity and conservation. Brisbane, Australia, 381-399.
31. Greene, R.S.B., Ringrose-Voase, A.J. and Bryannah, M. (1995). Micromorphological, physical and runoff properties of surface crusts on a grazed Haplargid in the semi-arid rangelands of eastern Australia. Proceedings of second international symposium on sealing, crusting and hardsetting soils: productivity and conservation. Brisbane, Australia, 451-456.
32. Greene, R.S.B., and Nettleton, W.D. (1995). Soil genesis in a longitudinal dune-swale landscape, NSW, Australia. *AGSO J. Aust. Geol. Geophy*, 16, 277-287.
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34. Greene, R.S.B., Nettleton, W.D., Chartres, C.J., Leys, J.F., and Cunningham, R.B. (1998). Runoff and micromorphological properties of grazed haplarginids, near Cobar, N.S.W., Australia. *Aust. J. Soil Res.* 36, 1-21.
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36. Butterworth R., C.J. Wilson, C.J., Herron, N.F., Cunningham, R.B., and Greene, R.S.B. (2000). Geomorphic controls on the physical and hydrologic properties of soils in a confined stream valley in NSW Australia. *Earth Surface Processes and Landforms* 25, 1161-1179.
37. Greene, R.S.B., Eggleton, R.A. and Rengasamy, P (2001). Relationships between clay mineralogy and hardsetting properties of soils in the Carnarvon Horticultural District of Western Australia. *Applied Clay Science* (in press).
38. Greene, R.S.B., Valentin, C. and Esteves, M. (2001). Runoff and erosion processes. In *Banded Vegetation Patterning in Arid and Semi-arid Environment-Ecological Processes and Consequences for Management*. (Eds. C. Valentin, D. Tongway, J. Seghier and J.M. d Herbes), Springer-Verlag. (in press).
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41. Valzano, F.P., Murphy, B. W. and Greene, R.S.B. (2001). The long-term effects of lime and gypsum and tillage on the physical and chemical properties of a sodic red brown earth. *Australian Journal of Soil Research*, 39 (in review).
42. Valzano, F.P., Greene, R.S.B., Murphy, B.W., Rengasamy, P., and Jawal, S.D. (2001) Effects of gypsum and stubble management on the chemical and physical properties of a sodic grey vertosol in Western Victoria *Australian Journal of Soil Research*, 39 (in review).

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1. Tongway, D.J. and Greene, R.S.B. (1989). The role of pastoral management on soil production potential in the rangelands. Final report to the National Soil Conservation Program, July, 1989.

2. Greene, R.S.B. (1994). The role of plant cover and surface soil conditions in determining runoff and erosion processes. In Restoration of Degraded Rangelands (Eds. R. Daly and J. Ludwig). Report to NSCP.
3. Dumaresq, D., and Greene, R.S. B. (1997). From Farmer to Consumer: the Future of Organic Agriculture in Australia. Summary report of 1996 National Symposium on Organic Agriculture. Pub. no. 97/013 RIRDC.
4. Dumaresq, D., Greene, R.S.B., and van Kerkhoff. L. (1997). Organic Agriculture in Australia. Proceedings of 1996 National Symposium on Organic Agriculture. Pub. no. 97/014 RIRDC.
5. Greene, R.S.B., Lin, A.J., and Parr, D.C. (1998) Soil and land management systems for the diversification of pastoral land in the Gascoyne Horticultural Districts. Report to RIRDC.
6. Greene, R.S.B. (1998). Field indicator tests to assess soil quality. In Preventing erosion and soil structure decline (Ed. B. Rose). Agriculture, WA, Publication 23/97.
7. Greene, R.S.B., Lin, A.J., and Parr, D.C. (2000). Management of soil organic matter and gypsum for sustainable production in the Carnarvon horticultural district of Western Australia. FarmNote, AGWA (in press).

Articles for farmers newsletters, etc

1. Can your soil become a fertiliser? Potato Australia Volume 9 (1998) pp46.
2. Cover crop/green manure contributions to soil fertility. Potato Australia Volume 10 (1999).pp.36-7.
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2. Greene, R.S.B., Collis-George, N., and Wood, B.S.C. (1983). A laboratory study of vertical infiltration into a structurally unstable red-brown earth surface soil. Proc. Tetra-branch Conference, Aus. Soc. Soil Sci. Inc., Riverina branch, pp. 49-58.
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10. Greene, R.S.B., Nettleton, W.D. and Chartres, C.J. (1992). The effects of grazing on the hydrologic and micromorphological properties of a dunefield land system near Cobar, NSW, Australia. Conference Papers, 7th Biennial Conference, Australian Rangelands Society, Cobar, Australia, 288-289.
11. Eldridge, D.J., and Greene, R.S.B. (1994). The roles biological soil crusts in soil and ecological processes in rangelands. Proc. 8th Biennial Conf. ARS Katherine, N.T. June 1994.
12. Greene, R.S.B. and Noble, J.C. (1996). The effects of rainfall redistribution on herbage production in three geomorphic zones in semi-arid wooded rangelands. Proc. 9th Biennial Conf. ARS Port Augusta, S.A., September, 1996.
13. Ditchfield, R., Greene, R.S.B., Ringrose-Voase, A.J. and Field, J.B. (1996). Reclamation of degraded scalds in semi-arid rangelands using water ponding. Proc. National Soils Conference, ASSSI, Melbourne, Vic., July, 1996.
14. Greene, R.S.B., Eggleton, R.A. and Rengasamy, P (2000). The role of clay minerals on the hardsetting properties of soils in the Carnarvon Horticultural District of Western Australia. Program and Abstracts 17th Bien. Conf. ACMS Inc., Adelaide ,SA, April 2000