



Dr Gregory Mark Dunn Publications

Refereed Journal Papers:

- Liu S., Cossell S., Tang J., **Dunn G.M.** and Whitty M. (2017) A computer vision system for early stage grape yield estimation based on shoot detection. *Computers and Electronics in Agriculture* **137**: 88-101.
- Watt, A.M., **Dunn, G.M.**, May, P., Crawford, S. and Barlow, E.W.R. (2008) Development of inflorescence primordia in *Vitis vinifera* L. cv. Chardonnay from hot and cool climates. *Australian Journal of Grape and Wine Research* **14**: 46-53.
- Dunn, G.M.** and Martin, S.R. (2007). A functional association in *Vitis vinifera* L. cv. Cabernet Sauvignon between the extent of primary branching and the number of flowers formed per inflorescence. *Australian Journal of Grape and Wine Research* **13**: 95-100.
- Dunn, G.M.** (2006) Regulating yield in vineyards. *Australian Viticulture*, **10**: 40-44.
- Krstic, M.P., Clingeleffer, P.R., **Dunn, G.M.**, Martin, S.R and Petrie, P.R. (2005). Grapevine growth and reproduction: an overview. Proceedings of the ASVO Seminar Series: Transforming Flowers to Fruit. Mildura, Victoria, July 2005 pp. 11-18.
- Dunn, G.M.** (2005). Factors that control flower formation in grapevines. Proceedings of the ASVO Seminar Series: Transforming Flowers to Fruit. Mildura, Victoria, July 2005 pp. 7-10.
- O'Connell, M.G., Goodwin, I. and **Dunn, G.M.** (2005). Towards a better understanding of crop water requirement in orchards: a case study from the Goulburn Valley. *Australian Journal of Experimental Agriculture* **46**: 405-412.
- Dunn, G.M.**, Martin, S.R. and Petrie, P.R. (2005) Managing yield variation in vineyards. Paper published in Proceedings of the Australian Wine Industry Technical Conference held 24-29 July 2004, Melbourne, Australia p 51-56.
- Dunstone, R.J, **Dunn, G.M.**, Martin, S.R., Whiting, J.R. and Mahoney, C. (2005) Realistic considerations for technology adoption – a wine industry example. *Acta Horticulturae* **694**: 351-355.
- Dunn, G.M.** and Martin, S.R. (2004). Yield prediction from digital image analysis: A technique with potential for vineyard assessments prior to harvest. *Australian Journal of Grape and Wine Research* **10**: 196-198.
- Dunn, G.M.** and Martin S.R. (2003) The current status of crop forecasting in the Australian wine Industry. Proceedings of the ASVO Seminar Series:

- Grapegrowing at the Edge, Tanunda, Barossa Valley, South Australia, July 2003 pp. 4-8.
- Petrie, P., **Dunn, G.M.**, Martin S.R., Krstic, M.P. and Clingeffer, P.R. (2003) Crop stabilisation. Proceedings of the ASVO Seminar Series: Grapegrowing at the Edge, Tanunda, Barossa Valley, South Australia, July 2003 pp. 11-16.
- Dunn, G.M.**, Martin, S.R., Whiting, J.R., Krstic, M.P. and Clingeffer, P.R. (2001) Yield targets: how do we hit them and how important are they? Paper presented to the 11th Australian Wine Industry Technical Conference, Adelaide October 2001. (11 pp.)
- Martin, S.R. and **Dunn, G.M.** (2000). Effect of pruning time and hydrogen cyanamide on budburst and phenology of *Vitis vinifera* L. var. Cabernet Sauvignon in central Victoria. *Australian Journal of Grape and Wine Research*, **6 (1)**: 31-39.
- Dunn, G.M.** and Martin, S.R. (2000). Do temperature conditions at budburst affect flower number in *Vitis vinifera* L. var. Cabernet Sauvignon? *Australian Journal of Grape and Wine Research*, **6 (2)**: 116-124.
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- Dunn, G.M.** and Martin, S.R. (1998). Optimising Vineyard Sampling to Estimate Yield Components. *Australian Grapegrower and Winemaker, Annual Technical Issue 1998*, 102-107.
- Dunn, G.M.**, Huth, J.R. and Lewty, M.J. (1997). Coating nursery containers with copper carbonate improves root morphology of five native Australian tree species used in agroforestry systems. *Agroforestry Systems*, **37**: 143-155
- Baynes, J. and **Dunn, G.M.** (1997). Estimating foliage surface area index in eight-year-old stands of *Pinus elliotii* var. *elliotii* x *Pinus caribaea* var. *hondurensis* of variable quality. *Canadian Journal of Forest Research*, **27**: 1367-1375.
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- Dunn, G.M.**, Lowe, K.F., Taylor, D.W. and Bowdler, T.M. (1994). Early tree and pasture growth in an agroforestry system evaluating *Albizia lebbek*,

Casuarina cunninghamiana and *Eucalyptus maculata* in south-east Queensland. *Tropical Grasslands*, **28**: 170-181.

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Jayasuriya, M.D.A., **Dunn, G.M.**, Benyon, R. and O'Shaughnessy, P.J. (1993). Some factors affecting water yield from mountain ash (*Eucalyptus regnans*) dominated forests in south-east Australia. *Journal of Hydrology*, **150**: 345-367.

Dunn, G.M. and Connor, D.J. (1993). An analysis of sap flow in mountain ash (*Eucalyptus regnans*) forests of different age. *Tree Physiology*, **13**: 321-336.

Dunn, G.M. and Neales, T.F. (1993). Are the effects of salinity on growth and leaf gas exchange related? *Photosynthetica*, **29**: 33-42.

Book Chapters:

Webb, L., **Dunn, G.M.** and Barlow, E.W.R. (2010) Winegrapes. In: *Adapting Agriculture to Climate Change*, eds Chris Stokes and mark Howden CSIRO Publishing, pp. 101-118.

Kalma S.J., Thorburn P.J. and **Dunn G.M.** (1997). Using heat pulse and deuterium tracing techniques to estimate tree water use. *In: Subsurface Hydrological Responses to Land Cover and Land Use Changes.* (Ed. M. Taniguchi). Kluwer Academic Publishers, Boston, pp 47-60.

Book Reviews:

Flowering and Fruitset in Grapevines by Peter May (2004). *Australian Journal of Grape and Wine Research* **10**: 165.

Conference Proceedings and Industry Publications:

Cunning, B.D., Brodie, G. and **Dunn, G.M.** (2010) Relative rooting depth and behaviour of Juncea canola, canola and barley. *Research for the Riverine Plains*, 38-39.

Allitt, C.S., Brodie, G., Norton, R. and **Dunn, G.M.** (2010) Comparative nitrogen requirements of canola, Juncea canola and wheat. *Research for the Riverine Plains*, 36-37.

Dassanayake, D., Dassanayake, K.B., Malano, H., **Dunn, G.M.**, Douglas, P.R., and Langford, J.K. (2009). Water saving through smarter irrigation in Australian dairy farming: Use of intelligent irrigation controller and wireless sensor

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- Lister, M.A., **Dunn, G.M.** and Brodie, G. (2009) Cultivating a healthy response to hay production. *Research for the Riverine Plains*, 94-95.
- Ooi, S., Mareels, I., Cooley, N.M., **Dunn, G.M.** and Thoms, G. (2008) A Systems Engineering Approach to Viticulture On-Farm Irrigation. In Proceedings of the 17th IFAC World Congress, International Federation of Automatic Control(Luxemburg), pp 9569-9574.
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- Dunn, G.M.**, Langford, J.K. and Barlow, E.W.R. (2006) Regional and economic benefits from smarter irrigation. In proceedings: The North - Opportunities for the Future - The Catchment Community Working Together, Australian National Committee on Irrigation and Drainage, Naional Conference and Exhibition, Darwin 2006 pp 94-95.
- Dunn, G.M.**, Lothian, P.A. and Clancy, T. (editors) (2004) Flower formation, flowering and berry set in grapevines. Proceedings of a workshop held at the Victorian Department of Primary Industries, Tatura, 22nd & 23rd May 2003.
- Dunn, G.M.** (2004) Windows of sensitivity in grapevine reproduction. Paper presented at the Flower formation, flowering and berry set in grapevines workshop held at the Victorian Department of Primary Industries, Tatura, 22nd & 23rd May 2003 19pp.
- Martin, S.R., **Dunn, G.M.** and Kelly, G. (2004) Timing of cane sampling for bud dissection. *Australian and New Zealand Grapegrower and Winemaker* **484**, 46-48.
- Dunn, G.M.** (2004) Wine grape yield regulation. GVWGGIDC Technical Note, 4pp.
- Watt, A.M. and **Dunn, G.M.** (2006) Some effects of crop load and canopy management on bud fertility, inflorescence size and carbohydrate storage. In proceedings: Vine Carbohydrate dynamics and source-sink relationships Workshop. CSIRO Publications pp 55-59.
- Dunn, G.M.** (2003) Crop forecasting for better vineyard efficiency and wine quality. *Australian Grapegrower and Winemaker* **473**, 17-18.

- Dunn, G.M.** and Martin, S.R. (2003) Better early prediction of bunch weight. *Australian Viticulture* **7 (4)**: 37-41.
- Martin, S.R. and **Dunn, G.M.** (2003). What really caused lower yields in 2003? *Australian Viticulture* **7 (4)**: 35-36.
- Dunn, G.M.** and Martin, S.R. (2003) Improving bunch weight prediction in winegrape yield forecasting, *Australian and New Zealand Grapegrower and Winemaker* **470**, 19-20.
- Dunn, G.M.** (2003) Counting branches to improve the early prediction of bunch weight. GVWGGIDC Technical Note, 4pp.
- Dunn, G.M.** and Martin, S.R. (2000). Spatial and temporal variation in vineyard yields. Paper presented to the Precision Management Workshop, 5th International Symposium on Cool Climate Viticulture and Oenology, Melbourne, 16-20th January 2000 (4 pp.).
- Martin, S.R., **Dunn, G.M.**, Tanya Hoogenraad, Mark P Krstic, Peter R Clingeleffer and William J Ashcroft (2000). Crop forecasting in cool climate vineyards. Paper presented to 5th International Symposium on Cool Climate Viticulture and Oenology, Melbourne, 16-20th January 2000 (3 pp.).
- Dunn, G.M.** and Martin, S.R. (1998). Optimising vineyard sampling to assess yield. Poster presented at the 10th Australian Wine Industry Technical Conference, Darling Harbour, Sydney 2-5th August 1998. Extended abstract published.
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- Dunn, G.M.** and Huth, J.R. (1996). Container types and potting media. Paper presented at the Nursery Managers' Workshop, Queensland Forest Research Institute, Gympie, 21-27 March 1996. (4 pp.)
- Dunn, G.M.** and Huth, J.R. (1995). The conditioning and handling of hoop pine nursery stock. *In* Proceedings of the Hoop Pine Establishment Workshop, Queensland Forest Research Institute, Gympie, 11-14 September 1995. Department of Primary Industries - Forestry, Brisbane. (9 pp.)
- Dunn, G.M.**, Hinchley, D., Nester, M.R. and Taylor, D.W. (1994). Revegetating a saline site in south-east Queensland. p 79 *In* Proceedings of the International Symposium, "Environmental Agriculture - Towards 2000". Saffigna, P.G. (ed.). (Gold Coast, Queensland, Australia, 5-8 June 1994.) World Sustainable Agriculture Association (Australian Branch), Griffith University, Nathan, Queensland
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