

Publications for Dr Evan Christen

Total Citations – 1647, **H-index** - 22, as reported by Google Scholar on 6/9/2017.

Publications include: refereed papers (43), refereed conference papers (28), refereed books and book chapters (4), conference papers (73), books and book chapters (8), farming/ commodity industry journals (40), consultancy reports (19), technical reports (43), irrigation education modules and short courses (4).

Refereed journal papers:

1. Sikander, P. and **Christen, E.W.** Vertical electrical sounding (VES) for salinity assessment of water-bearing formations. (2017). *Irrigation and Drainage* 66(2) 252-262
2. Car, N., **Christen, E.W.**, Hornbuckle, J.W. and Moore, G. (2012). Using a mobile phone short messaging service (SMS) for irrigation scheduling in Australia - farmers' participation and utility evaluation. *Computers in Agriculture* 84, 132-143
3. Kerridge, B., Hornbuckle, J.W, **Christen, E.W.** and Faulkner, R.D. (2012). Using soil surface temperature to assess soil evaporation in drip irrigated vineyard. *Agricultural Water Management* 116, 128-141
4. Soppe, R.W.O., Ayars, J.E., **Christen E.W.** and Meyer, W.S. (2011). Validation and evaluation of an empirical function to predict shallow groundwater use by crops *Agricultural Water Management* (in preparation)
5. Hornbuckle, J.W., **Christen, E.W.**, and Faulkner, R.D. (2012). An Analytical Solution for Drain flows from Bi-level-Multiple-Drain Subsurface Drainage Systems. *Journal of Irrigation and Drainage Engineering*, 138(7), 647-650
6. Sikander, P. and **Christen, E.W.** Geoelectrical sounding for the estimation of hydraulic conductivity of alluvial aquifers (2012). *Water Resources Management* 26(5) 1201-1215
7. Hornbuckle, J.W, **Christen, E.W.**, Car, N.J., Smith, D., Goodwin, I., McClymont, L. and Kerridge, B. (2012). Drip irrigation distribution uniformity in vineyards of Australia: Tools for mapping and estimation of impacts. *Acta Horticulturae* DOI 10.17660/ActaHortic.2012.931.12
8. Mosse, K.P.M., Patti, A.F., Smernik, R.J., **Christen, E.W.**, Cavagnaro, T.R. (2012). Physicochemical and microbiological effects of long- and short-term winery wastewater application to soils. *Journal of Hazardous Materials*, Vol 201-202, 219-228.
9. Arienzo, M., Jayawardane, N. S., **Christen, E.W.**, and Quayle, W. (2012). Relative effects of sodium and potassium on soil hydraulic conductivity at a winery wastewater site. *Geoderma* Vol 173–174, March 2012, Pages 303-310.
10. Mosse, K.P., Patti, A.F., **Christen, E.W.** and Cavagnaro, T.R. (2011) Review: Winery wastewater quality and treatment options in Australia. *Australian Journal of Grape and Wine Research* Vol 17, 111-122.
11. Humphreys, E., Kukal, S.S., **Christen, E.W.**, Hira, G.S., Balwinder-Singh, Thaman, S., Sudhir-Yadav and Sharma, R.K. (2011). Halting the groundwater decline in North-West India— Which crop technologies will be winners? *Advances in Agronomy*, Vol 109, 155-217.

12. Jayawardane, N. S., **Christen, E.W.**, Arienzo, M., and Quayle, W. (2011). Evaluation of the effects of cation combinations on soil hydraulic conductivity. *Australian Journal of Soil Research* 2011, **49**, 56–64.
13. Mosse, K.P., Patti, A.F., **Christen, E.W.** and Cavagnaro, T.R. (2010) Winery wastewater inhibits seed germination and vegetative growth of common crop species *Journal of Hazardous Materials*, 2010, 180: 63-70.
14. **Christen, E.W.**, Quayle, W.C. Marcoux, M.A., Arienzo, M., and Jayawardane, N. (2010). Winery wastewater treatment using the land FILTER technique. *J. Environmental Management*, 2010, 91: 1665-1673.
15. Arienzo, M., **Christen, E.W.**, and Quayle, W. (2009). Phytotoxicity testing of winery wastewater for constructed wetland treatment. *Journal of Hazardous Materials*. 2009, 169:94-9.
16. Quayle, W.C, Fattore, A., Zandona, R., **Christen, E.W.** and Arienzo, M. (2009). Evaluation of organic matter concentration in winery wastewater: a case study from Australia. *Water science & Technology* Vol.60, No. 10, 2521-2528.
17. Arienzo, M., **Christen, E.W.**, Quayle, W. and Di Stefano, N. (2009). Development of a low cost wastewater treatment system for small scale wineries. *Water Environment Research*, Vol. 81, No.3, March 2009, pp. 233-241
18. Arienzo, M., **Christen, E.W.**, Quayle, W. and Kumar, A. (2009). A review of the fate of potassium in the soil-plant system after land application of wastewaters. *Journal of Hazardous Materials* (2009) 164, 415-422.
19. Hornbuckle, J.W., **Christen, E.W.**, Smith, D., Mounzer, O. and Faulkner, R.D. (2008). Investigation of vine and vineyard evapotranspiration under drip and flood irrigation. *Acta Horticulturae* 792, pp347-353.
20. Hornbuckle, J.W., **Christen, E.W.**, Goodwin, I. and Zandona, R. (2008). Development of a real time spatial assessment tool for grapevine canopy vigour assessment and water stress. *Acta Horticulturae* 792, pp355-361.
21. Duncan, R.A., Bethune, M.G., Thayalakumaran, T., **Christen, E.W.** and McMahon, T.A. (2008). Management of salt mobilisation in the irrigated landscape – A review of selected regions. *Journal of Hydrology* (2008) 351, 238– 252.
22. Ayars, J.E., **Christen, E.W.** and Hornbuckle, J.W. (2007). Managing Irrigation and Drainage In saline Environments. *CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources*. CABI Online Journal <http://www.cababstractsplus.org/cabreviews/>
23. Hornbuckle, J.W., **Christen, E.W.** and Faulkner, R.D. (2007). Evaluating a Multi-level Subsurface Drainage System for Improved Drainage Water Quality, Agricultural Water Management. *Agricultural Water Management* Vol: 89, Issue: 3, pp. 208-216
24. **Christen, E.W.**, Shepherd, M.L., Meyer W.S., Jayawardane, N.S, and Fairweather, H. (2006). Triple Bottom Line reporting to promote sustainability of irrigation in Australia. *Journal of Irrigation and Drainage Systems* Volume 20, Number 4 / November, 2006:329-343.

25. Wahba, M.A.S and **Christen, E.W.** (2006) Modelling Subsurface Drainage for Salt Load Management in south-eastern Australia. *J. Irrigation and Drainage systems*. 20(2-3): 267-282, August 2006.
26. Ayars, J.E., **Christen, E.W.** and Hornbuckle, J.W. (2006). Controlled Drainage for Improved Water Management in Arid Regions Irrigated Agriculture. *Agricultural Water management*. Volume: 86, Issue: 1-2, Responsible Management of Water in Agriculture Wesseling--Van Schilfgaarde--Bouwer Special Issue of Agricultural Water Management, Editor(s): Peter A.C. Raats, (2006) 86(1,2):128-139
27. **Christen, E.W.**, Quayle, W. and Chung, S.O. (2006) Simulating the herbicide Molinate in rice paddies using RICEWQ. *Agricultural Water management* 85(1-2) : 38-46
28. Humphreys, E., Lewin, L.G., Khan, S., Beecher, H.G., Lacy, J. M., Thompson, J.A., Batten, G.D., Brown, A., Russell, C.A., **Christen, E.W.** and Dunn, B.W. (2006). Integrated approaches to increasing water use efficiency in rice-based systems in southeast Australia. *Field Crops Research* 97 (2006) 19-33.
29. Blackwell, J., Jayawardane, N., Biswas, T. and **Christen, E.W.** (2005). Evaluation of a Sequential Biological Concentration system in Natural Resource Management of a Saline Irrigated Area. *Australian Journal of Water Resources*, Vol. 9. No.2: 169-176.
30. Hornbuckle, J.W., **Christen, E.W.** & Faulkner, R.D. (2005) 'Improving subsurface drainage design – minimising the environmental impacts', *Australian Journal of Water Resources*, Vol. 9, No.2: 101-108.
31. Ayars, J.E., **Christen, E.W.**, Soppe, R.W. and Meyer, W.S. (2006) The resource potential of in-situ shallow ground water use in irrigated agriculture - a review. *Irrigation science* Vol. 24, No. 3: 147-160
32. Northey, J.E., **Christen, E.W.**, Ayars, J.E. and Jankowski, J. (2006) Occurrence and measurement of salinity stratification in shallow groundwater in the Murrumbidgee Irrigation Area of south eastern Australia. *Agricultural Water Management* Vol: 81, Issue: 1-2, pp. 23-40
33. Hornbuckle, J.W., **Christen, E.W.**, Ayars, J.E and Faulkner, R.D. (2005). Controlled Water Table Management as a Strategy for Reducing Salt Loads from Subsurface Drainage under Perennial Agriculture in Semi-arid Australia. *J. Irrigation and Drainage systems*. (2005) 19: 145-159.
34. Wahba, M.A.S., **Christen, E.W.** and Amer, M. H. (2005). Irrigation water saving by management of existing subsurface drainage in Egypt. *J. Irrigation and Drainage*, 54: 1-11 (2005)
35. **Christen, E.W.**, Blackwell, J., Hornbuckle, J.W. and Ayars, J.E. (2003) Waterlogging and salinity management by subsurface drainage. *Natural Resource Management*, Special Issue June 2003: 41-51. Aust. Assoc. Nat. Res. Man. Canberra.
36. Jehangir, W.A., Ashfaq, M. and **Christen, E.W.** (2002). On-farm financial gains from conjunctive water management in Pakistan. *Pakistan Journal of Irrigation and Drainage*, January-July, Vol. 6, No. 1.

37. **Christen, E.W.**, Ayars, J.E. and Hornbuckle, J. (2001) Subsurface Drainage Design and Management in Irrigated Areas of Australia. *Journal of Irrigation Science*. (2001) 21: 35-43.
38. Jolly, I.D., Walker, G.R., Dowling, T.I., **Christen, E.W.** and Murray, E. (2001) Regional planning for the siting of local evaporation basins for the disposal of saline irrigation drainage: Development and testing of a GIS-based suitability approach. *Journal of Environmental Management* (2001) 63, 51-70.
39. **Christen, E.W.** and Skehan, D. (2001) Design and Management of subsurface horizontal drainage to reduce salt loads. *ASCE Journal of Irrigation and Drainage Engineering*. 127 (3): 148 –155, May/June 2001.
40. **Christen, E.W.** and Spoor G. (2001). Improving Mole drainage channel stability in irrigated areas. *Agricultural Water Management*. 48 (2001) 239-253.
41. Singh, J. and **Christen, E.W.** (2001). Evaporation basins: opportunities for cost minimisation in siting design and construction. *Irrigation and Drainage* 50: 19-29 (2001) John Wiley and Sons.
42. **Christen, E.W.** and Spoor G. (1999). Controlling irrigation water flow to mole drains. *ASCE Journal of Irrigation and Drainage Engineering*, March/April 1999, 59-63.
43. **Christen, E.W.** (1997). The feasibility of using mole drainage to control waterlogging in irrigated agriculture. *Journal and Proceedings of the Royal society of NSW*. Vol.130 Parts 3-4, 109-110, 1997.

Refereed books and chapters:

1. Gao, S., **Christen, E.W.** and Toto, L. (2012). Agricultural Evaporation Basins. Chapter 24 in *ASCE Salinity Manual No. 71*. American Society in Civil Engineering. **(In press)**
2. **Christen, E.W.**, Shepherd M., Meyer, W. and Stone, C. (2011). Triple bottom line reporting in the irrigation sector. Chapter 5, p47-56. In: *Defending the Social Licence of Farming*. Eds. Williams, J. and Martin, P. CSIRO publishing, Collingwood, Melbourne, Australia 2011. ISBN: 9780643101593
3. Fouss, J.L., Evans, R.O, Ayars, J.E. and **Christen, E.W.** (2007). Water Table Control Systems, Chapter 18, p684-718. In: *Design and Operation of Farm Irrigation Systems 2nd Edition*, Eds. Hoffman, G.J., Evans, R.G., Jensen, M.E. and Elliot, R.L. American Society of Agricultural and Biological Engineers, St. Joseph, MI, USA. ISBN 1-892769-64-6 <http://asae.frymulti.com/abstract.asp?aid=23701&t=1>
4. **Christen, E.W.**, Hornbuckle, J.W., Ayars, J.E and Biswas, T. (2006) Design and management of reclaimed water irrigation systems. Chapter 6, p107-124. In: *Growing Crops with Reclaimed Wastewater*. Editor Stevens, D. CSIRO publishing, Collingwood, Melbourne, Australia 2006.