



## LIST OF PUBLICATIONS

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### Peer Reviewed Scientific Publications

1. Muinat Nike Lewu, Azwimbavhi Reckson Mulidzi, Abe Shegro Gerrano and Patrick Olusanmi Adebola., 2017. Comparative Growth and Yield of Taro (*Colocasia esculenta*) Accessions Cultivated in the Western Cape, South Africa. International Journal of Agriculture and Biology.
2. Mtimkulu, Y. Meyer, A.H, Mulidzi, A.R, Shange, P.L, & Nchu, F., 2017. Assessing and monitoring the effects of filter material amendments on the bio physicochemical properties during composting of solid winery waste under open field and varying climatic conditions. Waste Management Journal. Volume 59. 59-69.
3. Mulidzi, A.R. & Wooldridge, J., 2016. Effect of Irrigation with Diluted Winery Wastewater on Enzyme Activity in Four Western Cape Soils. Sustainability in Environment journal. Vol. 1, No. 2, 141-156.
4. Mulidzi, A.R., Clarke, C.E. & Myburgh, P.A., 2015. Effect of Irrigation with Diluted Winery Wastewater on Cations and pH in Four Differently Textured Soils. South African Society for Enology and Viticulture. Volume, 36, No.3, 400 – 410.
5. Mulidzi, A.R., Clarke, C.E. & Myburgh, P.A., 2016. Design of a Pot experiment to study the effect of irrigation with diluted winery wastewater on four differently textured soils. Water SA 42, 20- 25.
6. Mulidzi, A.R., Clarke, C.E. & Myburgh, P.A., 2016. Effect of Irrigation with Diluted Winery Wastewater on phosphorus in Four Differently Textured Soils. South African Society for Enology and Viticulture. Volume, 37, No.1, 79-84.
7. Masowa, M.M., Kutu, F.R., Shange, L.P., Mulidzi, A.R. & Vanassche, F.M.G, 2015. The effect of winery solid waste compost application on maize growth, biomass yield, and nutrient content under greenhouse conditions. Archives of Agronomy and Soil Science. Vo, 62, No.8, 1082 – 1094.
8. Mulidzi, A.R., 2010. Winery and distillery wastewater treatment by constructed wetland with shorter retention time. Water Science and Technology. 61 No 10: 2611-2615.
9. Mulidzi, A.R., 2007. Winery wastewater treatment by constructed wetlands and the use of treated wastewater for cash crop production. *Water Science and Technology*. 56 No2: 103-109.

### Semi-Scientific publications

1. Du Plessis, K.R. Wooldridge, J & Mulidzi, A.R., 2016. Bioremediation: a method for reducing chemical oxygen demand and turbidity in winery wastewater. Wineland, May, 71-73
2. Du Plessis, K.R. Wooldridge, J & Mulidzi, A.R., 2016. Bioremediation of winery wastewater: effects on microbial diversity. Wineland
3. Mulidzi, A.R, Wooldridge, J, Laker, M.C & Van Schoor, L., 2009: Composition of effluents from wineries in the Western and Northern Cape Provinces I. Seasonal variations and differences between wineries. Wineland. January, Page 88 – 91.
4. Mulidzi, A.R, Wooldridge, J, Laker, M.C & Van Schoor, L., 2009: Composition of effluents from wineries in the Western and Northern Cape Provinces II. Impacts on Soil and Environment. Wineland, February, Page 61 – 67.
5. Mulidzi, A.R, Laker, MC, Van Schoor L & Louw, PJE, 2002: Fate of organic components of winery effluents on soil. Wineland. April, Page 82-83

6. Mulidzi, A.R., 2005: Monitoring the performance of constructed wetlands in California. *Wineland*. May, Page 85-87.
7. Mulidzi, A.R., 2008: The cost of constructed wetland for winery wastewater treatment. *Wineland*. February, Page 66-67.

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1. FOURIE, J.C., 2012. Soil Management in the Breede River Valley Wine Grape Region, South Africa. 3. Organic Matter Content and Macro-nutrient Content of a Medium-textured Soil. *S. Afr. J. Enol. Vitic.* 33, 105-114.
2. FOURIE, J.C., 2010. Soil Management in the Breede River Valley Wine Grape Region, South Africa. 3. Grapevine performance. *S. Afr. J. Enol. Vitic.* 32, 60-70.
3. FOURIE, J.C., Joubert, M. & Freitag K., 2010. Effect of organic and integrated soil management practices on the weed population in a Pink Lady apple orchard in the Elgin region. *SA Fruit Journal* February/March, 41-47.
4. FOURIE, J.C. & FREITAG, K., 2010. Soil Management in the Breede River Valley Wine Grape Region, South Africa. 2. Soil Temperature. *S. Afr. J. Enol. Vitic* 31, 165-168.
5. FOURIE, J.C., 2010. Soil Management in the Breede River Valley Wine Grape Region, South Africa. 1. Cover Crop Performance and Weed Control. *S. Afr. J. Enol. Vitic.* 31, 14-21.
6. FOURIE, J.C. & RAATH, P.J., 2009. Effect of organic and integrated soil cultivation practices on soil nutrient status and performance of a Sauvignon blanc vineyard situated in the Paarl wine district. Part 2: Grapevine performance. *Wineland* July, 77-81.
7. FOURIE, J.C. & RAATH, P.J., 2009. Effect of organic and integrated soil cultivation practices on soil nutrient status and performance of a Sauvignon blanc vineyard situated in the Paarl wine district. Part 1: Soil nutrient status. *Wineland* June, 81-83.
8. FOURIE, J.C., 2008. Effect of different soil cultivation practices on a sandy and medium textured soil with special reference to soil nutrient status and organic matter content. In: *Proceedings of the Eighteenth Annual Interdisciplinary Symposium*, 97-115.
9. FOURIE, J.C. & RAATH, P.J., 2008. Effect of organic and integrated soil cultivation practices on the weed population in a Sauvignon blanc vineyard situated in the Drakenstein area of the Paarl wine district. *Wineland*, 59-63.
10. ADDISON, P. & FOURIE, J.C., 2008. Cover crop management in the vineyards of the Lower Orange River region, South Africa: 2. Effect on plant parasitic nematodes. *S. Afr. J. Enol. Vitic.* 29, 26-32.
11. RAATH, P.J. & FOURIE, J.C., 2007. Guidelines for making compost on fruit farms. *SA Fruit J.* Oct/Nov, 31-34.
12. FOURIE, J.C., LOUW, P.J.E. & AGENBAG, G.A., 2007. Cover crop management in a Sauvignon blanc/Ramsey vineyard in the semi-arid Olifants River Valley, South Africa. 3. Effect of different cover crops and cover crop management practices on the organic matter and macro-nutrient contents of a sandy soil. *S. Afr. J. Enol. Vitic.* 28, 92-100.
13. FOURIE, J.C., LOUW, P.J.E. & AGENBAG, G.A., 2007. Cover crop management in a Sauvignon blanc/Ramsey vineyard in the semi-arid Olifants River Valley, South Africa. Effect of different cover crops and cover crop management practices on grapevine performance. *S. Afr. J. Enol. Vitic.* 28, 81-91.
14. ADDISON, P., SAMWAYS, M. & FOURIE, J., 2007. Die uitwerking van dekgewasse op miere en witluise in die wingerd. *Wineland* 43, 65-67.
15. FOURIE, J.C., LOUW, P.J.E. & Agenbag, G.A., 2007. Cover crop management in a Chardonnay/99 Richter vineyard in the Coastal wine grape region, South Africa. 3. Effect of different cover crops and cover crop management practices on organic matter and macro-nutrient content of a medium textured soil. *S. Afr. J. Enol. Vitic.* 28, 61-68.
16. FOURIE, J.C., 2007. The evaluation and management of different grasses and legumes as potential cover crops in the vineyards of South Africa. PhD dissertation, University of Stellenbosch.
17. RAATH, P.J. & FOURIE J.C., 2006. Guidelines for making compost on a wine grape enterprise. *Wineland* 197, 96-97.

18. FOURIE, J.C., LOUW, P.J.E. & Agenbag, G.A., 2006. Cover crop management in a Chardonnay/99 Richter vineyard in the Coastal wine grape region, South Africa. 2. Effect of different cover crops and cover crop management practices on grapevine performance. *S. Afr. J. Enol. Vitic.* 27, 178-186.
19. FOURIE, J.C., LOUW, P.J.E. & Agenbag, G.A., 2006. Cover crop management in a Chardonnay/99 Richter vineyard in the Coastal wine grape region, South Africa. 1. Effect of two management practices on selected grass and broadleaf species. *S. Afr. J. Enol. Vitic.* 27, 167-177.
20. FOURIE, J.C., LOUW, P.J.E. & Calitz, F.J., 2006. Effect of seeding date on the performance of grasses and broadleaf species evaluated for cover crop management in the Breede River Valley wine grape region of South Africa. *S. Afr. J. Enol. Vitic.* 27, 8-14.
21. FOURIE, J.C., 2005. Cover crop management in the vineyards of the Lower Orange River region, South Africa: 1. Performance of grass and broadleaf species. *S. Afr. J. Enol. Vitic.* 26, 131-139.
22. FOURIE, J.C., LOUW, P.J.E. & AGENBAG, G.A., 2005. Cover crop management in a Sauvignon blanc/Ramsey vineyard in the semi-arid Olifants River Valley, South Africa. 1. Effect of management practices on selected grass and broadleaf species. *S. Afr. J. Enol. Vitic.* 26, 140-146.
23. FOURIE, J.C., 2003. Organic weed control in grapevines. *Wynboer* 167, 80-81. (Afrikaans).
24. FOURIE, J.C., 2003. Organic weed control in honeybush. *SAHTA Newsletter* 8, July, 7pp.
25. FOURIE, J.C., 2002. Organic weed control: approach and practical considerations. In: *Organic viticulture made easy* (Afrikaans).
26. FOURIE, J.C. & OCHSE, C.H., 2002. The effect of different establishment techniques on cover crop performance. *Wynboer* 154, 11-12. (Afrikaans).
27. FOURIE, J.C. & OCHSE, C.H., 2002. Efficacy of different post-emergence herbicides for the control of broadleaf cover crops. *Wynboer* 155, 9-10. (Afrikaans).
28. FOURIE, J.C. & OCHSE, C.H., 2002. A covered herbicide sprayer has advantages for the grape producer. *Wynboer* 155, 11-12. (Afrikaans).
29. FOURIE, J.C., LOUW, P.J.E. & AGENBAG, G.A., 2002. Cover crop management and grapevine performance in the Olifants River Valley. *Wynboer* 158, 103-108. (Afrikaans)
30. FOURIE, J.C., 2002. The use of cover crops in an integrated approach to Winegrape production in the Lower Orange River region. In: *Soil science aspects for optimum grape quality in the Lower Orange River region* (Afrikaans).
31. FOURIE, J.C., 2002. Mechanical soil cultivation for the alleviation of soil compaction and root pruning in vineyards. In: *Soil science aspects for optimum grape quality in the Lower Orange River region* (Afrikaans).
32. FOURIE, J.C., 2002. The suitability of different cover crops for sustainable cover crop management in the vineyards of the Olifants River Valley and adjacent regions (Afrikaans). *Wineland* 154, 75-78
33. FOURIE, J.C., LOUW P.J.E., AGENBAG G.A., 2001. Effect of seeding date on the performance of grasses and broadleaf species evaluated for cover crop management in two wine grape regions of South Africa. *S. Afr. J. Plant & Soil* 18(3), 118-127.
34. FOURIE, J.C., 2001. The use of cover crops in an integrated approach to Winegrape production in the Overberg. In: *Soil science aspects for optimum wine quality in the Overberg* (Afrikaans).
35. FOURIE, J.C., 2001. Mechanical soil cultivation for the alleviation of soil compaction and root pruning in vineyards. In: *Soil science aspects for optimum wine quality in the Overberg* (Afrikaans).
36. FOURIE, J.C., 2001. Mechanical soil cultivation for the alleviation of soil compaction and root pruning in existing olive orchards. In: *Soil science aspects for optimum production of Olives* (Afrikaans).
37. FOURIE, J.C., 2001. The use of cover crops in an integrated approach to Olive production. In: *Soil science aspects for optimum production of Olives* (Afrikaans).
38. RAATH, P.J. & FOURIE J.C., 2001. Prerequisites for organic cultivation of winegrapes. *Wynland* 148, 109-111.
39. FOURIE, J.C., 2001. The use of cover crops in an integrated approach to Deciduous fruit production in the Koue Bokkeveld. In: *Soil science aspects for optimum production and fruit quality in the Koue Bokkeveld region* (Afrikaans).

40. FOURIE, J.C., 2001. Mechanical soil cultivation for the alleviation of soil compaction and root pruning in Deciduous fruit orchards. In: Soil science aspects for optimum production and fruit quality in the Koue Bokkeveld region (Afrikaans).
41. FOURIE, J.C., 2001. The use of cover crops in an integrated approach to Winegrape production in the Breede River Valley. In: Soil science aspects for optimum wine quality in the Breede River Valley (Afrikaans).
42. FOURIE, J.C., 2001. Mechanical soil cultivation for the alleviation of soil compaction and root pruning in vineyards. In: Soil science aspects for optimum wine quality in the Breede River Valley (Afrikaans).
43. FOURIE, J.C., 2001. The use of cover crops in an integrated approach to tablegrape production in the Hex and Berg River Valley. In: Soil science aspects for optimum wine quality in the Breede River Valley (Afrikaans).
44. FOURIE, J.C., 2001. Mechanical soil cultivation for the alleviation of soil compaction and root pruning in vineyards. In: Soil science aspects for optimum wine quality in the Hex and Berg River Valley (Afrikaans).
45. FOURIE, J.C., 2000. Organic vs. integrated production: Soil cultivation and weed control. Handbook for South African Society for Enology and Viticulture Table Grape short course, 1 August, Upington. SASEV, P.O. Box X2092, 7601 Dennesig, 3 pp. (Afrikaans).
46. FOURIE, J.C., 2000. Organic vs. integrated production: Soil cultivation and weed control. Handbook for South African Society for Enology and Viticulture Table Grape short course, 24 August, Goudini Spa. SASEV, P.O. Box X2092, 7601 Dennesig, 3 pp. (Afrikaans).
47. FOURIE, J.C., 2000. The use of cover crops in an integrated approach to Stone fruit production in the Breede River Valley. In: Soil science aspects for optimum production and fruit quality in the Breede River Valley (Afrikaans).
48. FOURIE, J.C., 2000. Mechanical soil cultivation for the alleviation of soil compaction and root pruning in Stone fruit orchards. . In: Soil science aspects for optimum production and fruit quality in the Breede River Valley (Afrikaans).
49. FOURIE, J.C., 2000. The use of cover crops in an integrated approach to Winegrape production in the Coastal Region. In: Soil science aspects for optimum wine quality in the Coastal Region (Afrikaans).
50. FOURIE, J.C., 2000. Mechanical soil cultivation for the alleviation of soil compaction and root pruning in vineyards. In: Soil science aspects for optimum wine quality in the Coastal Region (Afrikaans).
51. FOURIE, J.C., 1999. Tillage. Handbook for South African Society for Enology and Viticulture Table Grape short course, 26 August, Goudini Spa. SASEV, P.O. Box X2092, 7601 Dennesig, 16 pp. (Afrikaans).
52. FOURIE, J.C., 1998. Cover crop management in the Lower Orange River. Handbook for South African Society for Enology and Viticulture Table Grape short course, 9 July, Upington. SASEV, P.O. Box 2092, 7601 Dennesig, 1p. (Afrikaans).
53. FOURIE, J.C., 1998. Evaluation of different cover crop and cover crop management practices as a soil cultivation practice for integrated table grape production in the Lower Orange River. ARC Infruitec-Nietvoorbij, Private Bag X5026, 7599 Stellenbosch, 9pp. (Afrikaans).
54. FOURIE, J.C., 1998. Evaluation of different cover crop species and cover crop management practices according to soil physical and chemical qualities, water consumption and performance of vines grown in the Coastal region. ARC Infruitec-Nietvoorbij, Private Bag X5026, 7599 Stellenbosch, 7pp. (Afrikaans).
55. FOURIE, J.C. & LOUW, P.J.E., 1997. Effect of soil management practices on the performance of young grapevines under irrigation. p. 231-234. In : Fotyma, M., Jozefaciuk, A., Malicki, L. & Borowiecki, J. (eds). Bibliotheca Fragmenta Agronomica, Agroecological and ecological aspects of soil tillage. TOM 2A/97, Pulaway, Poland, 338pp.
56. LOUW, P.J.E. & FOURIE, J.C., 1997. Effect of soil management practices on nitrogen levels in young grapevines under irrigation. p. 427-430 In: Fotyma, M., Jozefaciuk, A., Malicki, L. &

- Borowiecki, J. (eds). *Bibliotheca Fragmenta Agronomica*, Agroecological aspects of soil tillage. TOM 2A/97, Pulawy, Poland, 338pp.
57. FOURIE, J.C., 1996. Identification and chemical control of important weeds in South African vineyards. ARC-Nietvoorbij Institute for Viticulture and Oenology, Private Bag X5026, Stellenbosch, 7599, South Africa, pp 146.
  58. FOURIE, J.C., 1996. Herbicide phytotoxicity. In : Ferreira, J.H.S & Venter, Elrita (compilers). *Grapevine diseases and pests in South Africa*. ARC-Nietvoorbij, Institute for Viticulture and Oenology, Private Bag X5026, Stellenbosch, 7599 South Africa, p 126-137.
  59. FOURIE, J.C., LOUW, P.J.E. & AGENBAG, G.A., 1996. The use of different cover crops to minimise cultivation and use of herbicides in a young vineyard in the Coastal Region. In : *Proceedings of the 76th General Assembly of the OIV, Commission on Viticulture, 10-18 November, Cape Town, 12 pp.*
  60. FOURIE, J.C., 1995. Weed control - new application technique investigated by Nietvoorbij (Afrikaans). *Wynboer*, April, 55.
  61. FOURIE, J.C., 1995. Careful calibration - the key to successful weed control (Afrikaans). *Wynboer*, April, 56.
  62. FOURIE, J.C. & BOOYSEN, E., 1995(a). Important weeds prevalent in South African vineyards. Part 16. *Wynboer Tegnies* 66, January, 4-5.
  63. FOURIE, J.C. & BOOYSEN, E., 1995(b). Important weeds prevalent in South African vineyards. Part 17. *Wynboer Tegnies* 67, February, 9-10.
  64. FOURIE, J.C. & BOOYSEN, E., 1995(c). Important weeds prevalent in South African vineyards. Part 18. *Wynboer Tegnies* 68, March, 9-11.
  65. FOURIE, J.C. & BOOYSEN, E., 1995(d). Important weeds prevalent in South African vineyards. Part 19. *Wynboer Tegnies* 69, April, 8-9.
  66. FOURIE, J.C. & BOOYSEN, E., 1994(a). Important weeds prevalent in South African vineyards. Part 10. *Wynboer Tegnies* 60, January, 8-9.
  67. FOURIE, J.C. & BOOYSEN, E., 1994(b). Important weeds prevalent in South African vineyards. Part 11. *Wynboer Tegnies* 61, March, 4-5.
  68. FOURIE, J.C. & BOOYSEN, E., 1994(c). Important weeds prevalent in South African vineyards. Part 12. *Wynboer Tegnies* 62, May, 4-5.
  69. FOURIE, J.C. & BOOYSEN, E., 1994(d). Important weeds prevalent in South African vineyards. Part 13. *Wynboer Tegnies* 63, July, 4-5.
  70. FOURIE, J.C. & BOOYSEN, E., 1994(e). Important weeds prevalent in South African vineyards. Part 14. *Wynboer Tegnies* 64, September, 4-5.
  71. FOURIE, J.C. & BOOYSEN, E., 1994(f). Important weeds prevalent in South African vineyards. Part 15. *Wynboer Tegnies* 65, November, 4-5.
  72. FOURIE, J.C., 1993. Herbigation in a vineyard : Efficacy and persistence of five pre-emergence herbicides on a sandy soil. *S. Afr. J. Enol. Vitic.* 14, 3-10.
  73. FOURIE, J.C. & BOOYSEN, E., 1993(a). Important weeds prevalent in South African vineyards. Part 4. *Wynboer Tegnies* 54, January, 4-5.
  74. FOURIE, J.C. & BOOYSEN, E., 1993(b). Important weeds prevalent in South African vineyards. Part 5. *Wynboer Tegnies* 55, March, 8-9.
  75. FOURIE, J.C. & BOOYSEN, E., 1993(c). Important weeds prevalent in South African vineyards. Part 6. *Wynboer Tegnies* 56, May, 4-5.
  76. FOURIE, J.C. & BOOYSEN, E., 1993(d). Important weeds prevalent in South African vineyards. Part 7. *Wynboer Tegnies* 57, July, 8-9.
  77. FOURIE, J.C. & BOOYSEN, E., 1993(e). Important weeds prevalent in South African vineyards. Part 8. *Wynboer Tegnies* 58, September, 8-9.
  78. FOURIE, J.C. & BOOYSEN, E., 1993(f). Important weeds prevalent in South African vineyards. Part 9. *Wynboer Tegnies* 59, November, 8-9.
  79. FOURIE, J.C., 1992. Herbigation in a vineyard : Persistence of four pre-emergence herbicides in a sandy loam soil. *S. Afr. J. Enol. Vitic.* 13, 64-70.

80. FOURIE, J.C., 1992. Effective herbicide application - the do's en don'ts (Afrikaans). Wynboer, May, 51-52.
81. FOURIE, J.C. & BOOYSEN, E., 1992(a). Important weeds prevalent in South African vineyards. Part 1. Wynboer Tegnies 51, July, 12-13.
82. FOURIE, J.C. & BOOYSEN, E., 1992(b). Important weeds prevalent in South African vineyards. Part 2. Wynboer Tegnies 52, September, 4-5.
83. FOURIE, J.C. & BOOYSEN, E., 1992(c). Important weeds prevalent in South African vineyards. Part 3. Wynboer Tegnies, 53, November, 12-13.
84. FOURIE, J.C., 1991. Soil tillage in vineyards (Afrikaans). Handbook for Soil Science Workshop, 23-24 October 1991, Nietvoorbij, Stellenbosch, South Africa. pp. 35-63.
85. FOURIE, J.C., 1988(a). Weed control in vineyards. I. General principles. Farming in S.A., VORI 70/1988.
86. FOURIE, J.C., 1988(b). Weed control in vineyards. II. Calibration of tractor sprayers. Farming in S.A., VORI 71/1988.
87. FOURIE, J.C., 1988(c). Weed control in vineyards. III. Post-emergence control. Farming in S.A., VORI 234/1988.
88. FOURIE, J.C., 1988(d). Weed control in vineyards. IV. Pre-emergence control. Farming in S.A., VORI 235/1988.
89. FOURIE, J.C., 1988. Herbigation in a vineyard soil through a microjet irrigation system. S. Afr. J. Enol. Vitic. 9(1), 37-42.
90. FOURIE, J.C. & VAN HUYSSTEEN, L., 1987. Practical hints for the control of weeds in vineyards. Deciduous Fruit Grower 37(9), 347-356.
91. FOURIE, J.C., 1982. The effect of three chlorasetamides on certain biochemical processes and the effect of selected herbicides on nitrate reductase activity in *Phaseolus vulgaris* L. M. Sc. thesis, University of Stellenbosch.

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1. MYBURGH, P.A. & MOOLMAN, J.H., 1991(a). The effect of ridging on the soil water status of a waterlogged vineyard soil. *S. Afr. J. Plant Soil* 8(4), 184-188.
2. MYBURGH, P.A. & MOOLMAN, J.H., 1991(b). Ridging A soil preparation practice to improve aeration of vineyard soils. *S. Afr. J. Plant Soil* 8(4), 189-193.
3. MYBURGH, P.A. & MOOLMAN, J.H., 1993. The effect of ridging on the temperature regime of a waterlogged vineyard soil. *S. Afr. J. Plant Soil* 10(1), 17-21.
4. MYBURGH, P.A., 1994. Effect of ridging on the performance of young grapevines on a waterlogged soil. *S. Afr. J. Enol. Vitic.* 15(1), 3-8.
5. MYBURGH, P.A., 1996. Response of *Vitis vinifera* L. cv. Barlinka/Ramsey to soil water depletion levels with particular reference to trunk growth parameters. *S. Afr. J. Enol. Vitic.*, 17, 3-14.
6. MYBURGH, P.A., VAN ZYL, J.L. & CONRADIE, W.J., 1996. Effect of soil depth on growth and water consumption of young *Vitis vinifera* L. cv. Pinot noir. *S. Afr. J. Enol. Vitic.* 17, 53-62.
7. MYBURGH, P.A. & HOWELL, C.L., & BRINK, D., 2002. A field method to determine three dimensional infiltrability of vineyard soils. *S. Afr. J. Plant Soil*, 19, 173-177.
8. MYBURGH, P.A., 2003. Possible flood irrigation technologies to reduce water use of Sultanina grapevines in a hot, arid climate. *S. Afr. J. Plant Soil*, 20, 180-187.
9. MYBURGH, P.A., 2003. Responses *Vitis vinifera* L. cv. Sultanina to level of soil water depletion under semi-arid conditions. *S. Afr. J. Enol. Vitic.*, 24, 16-24.
10. MYBURGH, P.A., 2003. Responses *Vitis vinifera* L. cv. Sultanina to water deficits during various pre- and post-harvest phases under semi-arid conditions. *S. Afr. J. Enol. Vitic.*, 24, 25-33.
11. MYBURGH, P.A., 2004. Determining grapevine canopy effects on effective rainfall in vineyards. *S. Afr. J. Enol. Vitic.*, 25, 33-35.
12. MYBURGH, P.A. & COETZEE, F., 2004. Apparatus for non-destructive measurement of grapevine trunk cross-sectional area. *S. Afr. J. Plant Soil*, 21, 67-69.
13. MYBURGH, P.A. & VAN DER WALT, L.D., 2005. Cane water content and yield responses of *Vitis vinifera* L. cv. Sultanina to overhead irrigation during the dormant period. *S. Afr. J. Enol. Vitic.*, 26, 1-5.
14. MYBURGH, P.A., 2005. Water status, vegetative growth and yield responses of *Vitis vinifera* L. cvs. Sauvignon blanc and Chenin blanc to timing of irrigation during berry ripening in the coastal region of South Africa. *S. Afr. J. Enol. Vitic.*, 26, 59-67.
15. MYBURGH, P.A., 2006. Juice and wine quality responses *Vitis vinifera* L. cvs. Sauvignon blanc and Chenin blanc to timing of irrigation during berry ripening in the coastal region of South Africa. *S. Afr. J. Enol. Vitic.*, 27, 1-7.
16. MYBURGH, P.A. & HOWELL, C.L., 2006. Water relations of *Vitis vinifera* L. cv. Sunred Seedless in response to soil water depletion before harvest. *S. Afr. J. Enol. Vitic.*, 27, 196-201.
17. MYBURGH, P.A. & HOWELL, C.L., 2007. Evapotranspiration of *Vitis vinifera* L. cvs. Sunred Seedless and Muscat Supreme in response to soil water depletion and irrigation cutoff during berry ripening. *S. Afr. J. Plant Soil*, 24, 209-213.
18. MYBURGH, P.A., 2011. Response of *Vitis vinifera* L. cv. Merlot to Low Frequency Drip Irrigation and Partial Root Zone Drying in the Western Cape Coastal Region – Part I. Soil and Plant Water Status. *S. Afr. J. Enol. Vitic.*, 32, 89-103.
19. MYBURGH, P.A., 2011. Response of *Vitis vinifera* L. cv. Merlot to Low Frequency Drip Irrigation and Partial Root Zone Drying in the Western Cape Coastal Region – Part II. Vegetative Growth, Yield and Quality. *S. Afr. J. Enol. Vitic.*, 32, 104-116.
20. MYBURGH, P.A., 2011. Comparing irrigation systems and strategies for table grapes in the weathered granite-gneiss soils of the Lower Orange River region. *S. Afr. J. Enol. Vitic.*, (Submitted for publication).
21. MYBURGH, P.A., 1989(a). Causes and prevention of clogging of drip irrigation systems. *Deciduous Fruit Grower* 39(3), 98-102.

22. MYBURGH, P.A., 1989(b). Irrigation - A key practise in viticulture (Afrikaans). Wynboer September, 61 67.
23. MYBURGH, P.A. & PIAGET, J., 1990. Full surface wetting can lead to problems in fruit orchards: A case study. *Deciduous Fruit Grower* 40, 66 69.
24. MYBURGH, P.A. & FOURIE, A., 1992. Irrigation guidelines for vineyards during critical water shortages (Afrikaans). *Farming in S.A.*, VORI 253/1992.
25. MYBURGH, P.A., 1992. Water consumption of and crop factors for vineyards in the Stellenbosch area (Afrikaans). *Wynboer* July, 51 53.
26. MYBURGH, P.A., 1993. A flow diagram for the calculation of an irrigation schedule for vineyards (Afrikaans). *Wynboer Tegnies* 58, 10 11.
27. MYBURGH, P.A., 1993. Irrigation of ridged vineyards (Afrikaans). *Wynboer Tegnies* 55, 10 11.
28. MYBURGH, P.A. & NEL, H.J., 1992. Judicious irrigation scheduling saves water and money (Afrikaans). *Deciduous Fruit Grower* 42(12), 450 451.
29. MYBURGH, P.A., 1992. Water requirements of the grapevine. *Farming in S.A.*, VORI 18/1992.
30. MYBURGH, P.A., 1993. Success indeed possible with limited irrigation water. *Deciduous Fruit Grower* 43 (9), 312 313.
31. MYBURGH, P.A., 1994. Fyn tegnologie om besproeiing te verbeter (Afrikaans). *Wynboer*, Augustus, 30-31.
32. MYBURGH, P.A., 1995. Riglyne vir aanvullende besproeiing van wingerd in geval van beperkte water (Afrikaans). *Wynboer Tegnies*, January, 11-12.
33. MYBURGH, P.A., 1995. Terminologie vir gebruik met verdampingspanne en outomatiese weerstasies (Afrikaans). *Wynboer*, July, 65-66.
34. MYBURGH, P.A., 1995. Grapevine trunk growth as an indicator of plant water stress. In: Goussard, P.G., Archer, E., Saayman, D., Tromp, A. and Van Wyk, C.J. (Eds.). *Proc. of the 1st SASEV Int. Congress*, 8-10 November 1995, Cape Town, South Africa. pp. 102-104.
35. MYBURGH, P.A., 1991. Irrigation - the key to viticulture (Afrikaans). *Handbook for Soil Science Workshop*, 23-24 October 1991, Nietvoorbij, Stellenbosch, South Africa. pp. 64-75.
36. MYBURGH, P.A., 1997. New technology to improve irrigation of vineyards. *Handbook for SASEV refresher course in Parow*, 4 September 1997. p. 74-109.
37. MYBURGH, P.A., CASS, A. & CLINGELEFFER, P., 1996. Root systems and soils in Australian vineyards and soils - an assessment. 1996 Barossa Valley rotary Foundation Fellowship Report, CRC for Soil & Land Management, PMB 2 Glen Osmond, Australia, p28.
38. MYBURGH, P.A., 2005. Effect of altitude and distance from the Atlantic ocean on mean February temperatures in the Western Cape coastal region. *Wynboer Technical Yearbook*, 2005/6, 49-52.
39. MYBURGH, P.A. & HOWELL, C.L., 2006. Responses of Sunred Seedless and Muscat Supreme to irrigation during berry ripening I - Growth, yield and juice analyses. *S. Afr. Fruit J.*, Dec 2006/Jan 2007, 48-53.
40. MYBURGH, P.A., 2006. Irrigation management with particular reference to wine quality - A brief overview of South African research. *Wynboer Technical Yearbook*, 2006/7, 50-53.
41. MYBURGH, P.A. & HOWELL, C.L., 2007. Responses of Sunred Seedless and Muscat Supreme to irrigation during berry ripening II - Quality aspects. *S. Afr. Fruit J.*, Feb/March 2007, 28-32.
42. MYBURGH, P.A., 2007. An investigation into possible water savings using sub-surface irrigation (Part I) - Irrigation quantities, wetting patterns and root distribution. *Wynboer Technical Yearbook*, 2007-8, 33-37.
43. MYBURGH, P.A., 2007. An investigation into possible water savings using sub-surface irrigation (Part II) - Plant water stress, growth, yield and quality. *Wynboer Technical Yearbook*, 2007/8, 38-42.
44. MYBURGH, P.A., 2007. The effect of irrigation on growth, yield, wine quality and evapotranspiration of Colombar in the Lower Orange River region. *Wynboer Technical Yearbook*, 2007/8, 59-62.
45. MYBURGH, P.A., 2008. The contribution of atmospheric humidity to yield fluctuations of Sultanina in the Lower Orange River region. *Wynboer Technical Yearbook*, 2008/9, 38-41.



46. MYBURGH, P.A., 2010. Practical guidelines for the measurement of water potential in grapevine leaves. Wynboer Technical Yearbook, 2010, 11-13.
47. MYBURGH, P.A., 2011. Possible adjustments to irrigation strategy and trellis system to improve water use efficiency of vineyards (Part 1): Evapotranspiration and crop coefficients. Wynboer Technical Yearbook, 2011, 6-8.
48. MYBURGH, P.A., 2011. Possible adjustments to irrigation strategy and trellis system to improve water use efficiency of vineyards (Part 2): Plant water status. Wynboer Technical Yearbook, 2011, 8-10.
49. MYBURGH, P.A., 2011. Possible adjustments to irrigation strategy and trellis system to improve water use efficiency of vineyards (Part 3): Vegetative growth. Wynboer Technical Yearbook, 2011, 11-13.
50. MYBURGH, P.A., 2011. Possible adjustments to irrigation strategy and trellis system to improve water use efficiency of vineyards (Part 4): Root distribution and development. Wynboer Technical Yearbook, 2011, 13-15.
51. MYBURGH, P.A., 2011. Possible adjustments to irrigation strategy and trellis system to improve water use efficiency of vineyards (Part 6): Canopy micro climate. Wynboer Technical Yearbook, 2011, 16-18.
52. MYBURGH, P.A., 2011. Possible adjustments to irrigation strategy and trellis system to improve water use efficiency of vineyards (Part 6): Yield and quality of Pinotage. Wynboer Technical Yearbook, 2011, 19-21.
53. MYBURGH, P.A., 2011. Possible adjustments to irrigation strategy and trellis system to improve water use efficiency of vineyards (Part 7): Yield and quality of Sauvignon blanc. Wynboer Technical Yearbook, 2011, 22-24.
54. MYBURGH, P.A., 2011. Effect of different irrigation strategies on vineyards in sandy soil in the Lower Olifants River region (Part 1): Irrigation and soil water status. Wynboer Technical Yearbook, 2011, 24-27.
55. MYBURGH, P.A., 2011. Effect of different irrigation strategies on vineyards in sandy soil in the Lower Olifants River region (Part 2): Plant water status. Wynboer Technical Yearbook, 2011, 27-29.
56. MYBURGH, P.A., 2011. Effect of different irrigation strategies on vineyards in sandy soil in the Lower Olifants River region (Part 3): Growth, yield and quality of Merlot. Wynboer Technical Yearbook, 2011, 30-31.
57. MYBURGH, P.A., 2011. Effect of different irrigation strategies on vineyards in sandy soil in the Lower Olifants River region (Part 4): Growth, yield and quality of Shiraz. Wynboer Technical Yearbook, 2011, 32-33.
58. MYBURGH, P.A., 2011. Effect of different irrigation strategies on vineyards in sandy soil in the Lower Olifants River region (Part 5): Growth, yield and quality of Sauvignon blanc. Wynboer Technical Yearbook, 2011, 33-35.
59. MYBURGH, P.A., 2011. Growing stone fruit and grapes where water resources are limited Part 1 - Soil management. S. Afr. Fruit J., Jan 2011/Dec 2012, 52-54.
60. MYBURGH, P.A., 2012. Growing stone fruit and grapes where water resources are limited Part 1 - Soil management. S. Afr. Fruit J., April/May 2012, 30-38.
61. MYBURGH, P.A. & Howell, 2012. Possible causes of infiltration problems in drip irrigated vineyards in the Breede River valley. Wineland, (accepted for publication).

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#### Semi-scientific and popular articles

1. BEUKES O. & VOLSCHENK T., 2001. Hoe word grondmonsters geneem?. *SA Irrigation/SA Besproeiing* 23: 13.
2. VOLSCHENK, T. 1994. Irrigation scheduling services in the Western Cape. WRC Workshop: Irrigation scheduling services based on automatic weather stations, Pretoria, 14 June.
3. VOLSCHENK, T. 1994. Dangers of incorrect irrigation. *Farmers Weekly*, October 14, 1994. Vol 48 Part 6, July.
4. VOLSCHENK, T. 1997. Informal seminar on model research. Geneva, New York State. 26 March 1997.
5. VOLSCHENK, T., 1998. Poor water quality can be expensive and risky. *Deciduous Fruit Grower* 48, 24 (Afrikaans only).
6. VOLSCHENK, T., 2000. Research on a model for estimation of water consumption of deciduous fruit trees with the aid of meteorological data for irrigation scheduling purposes. Handout of a talk delivered at the Information day: Evaluation of a water use model for irrigation scheduling, April 2000, Harry Molteno Centre, Elgin. (Afrikaans).
7. VOLSCHENK, T. & DE VILLIERS, J.F., 2000. Determination of deciduous fruit tree transpiration for irrigation scheduling purposes. CPA Technical Symposium, June 2000, Jannasch Hall, University of Stellenbosch, Stellenbosch. Submitted to CPA June 2000. (Afrikaans).
8. VOLSCHENK, T., 2000. Orchard management during periods of limited irrigation water. Handout of a talk delivered at a producers meeting, September 2000, Kromco, Elgin.
9. BEUKES, O. & VOLSCHENK, T., 2000. Direct and indirect methods for irrigation scheduling for production of stone fruit. Stone fruit shortcourse, November 2000, Ashton. (Afrikaans).
10. VOLSCHENK, T., 2000. The effect of saline irrigation water and - soil on production and quality of stone fruit. Stone fruit shortcourse, November 2000, Ashton. (Afrikaans).
11. VOLSCHENK, T. & MYBURGH, P.A., 2001. Water requirements and irrigation of olives in the Western Cape. Olive shortcourse, March 2001, Stellenbosch.
12. VOLSCHENK, T., 2005. Omvang van verbrakking in die Oranjerivier. SAWWV Tafel- en droogdruif kortkursus, August 2005, Upington.
13. VOLSCHENK, T. 2005. Die effek van brak besproeiingswater op appelkoosbome. *SA Fruit Journal* 4(6):15.
14. MOORE J.A. & VOLSCHENK, T. 2005. Brak besproeiingswater kan met logging verbeter. *Landbouweekblad*, Oktober 28, 2005, No. 1424: 65
15. VOLSCHENK, T. 2006. Saline irrigation of apricot: possibilities. *The Farm Africa Including Food Processing Africa*, Volume 4(2): 23-24.
16. VOLSCHENK T. 2013. VIth International Symposium on Irrigation of Horticultural crops. *SA Fruit Journal*, 12(1):56-58. (English).
17. VOLSCHENK, T. 2013. Irrigation strategies for apple production in the Koue Bokkeveld region. *SA Fruit Journal*, 12(2):64-67.
18. VOLSCHENK, T., 2014. Irrigation Strategies to Minimize Drought-induced Yield Reduction in Forelle Pear Trees. *Acta Hort* 1038:155-162
19. VOLSCHENK, T. & GINDABA, J. 2014. The Effect of Reduced Soil Water Status on 'Golden Delicious' apple trees. *Acta Hort* 1058:229-235.

20. VOLSCHENK, T. 2016. Deciduous fruit and drought. *SCIENCE STARS* 12:27.
21. DZIKITI, S, GUSH, MB, TAYLOR, NJ, **VOLSCHENK, T**, MIDGLEY, S, LÖTZE, E, SCHMEISSER, M. & DOKO, Q. 2017. Measurement and modelling of water use by high yielding apple orchards and orchards of different age groups in the winter rainfall areas of South Africa. *Acta Hort* 1150:31-37.

### **Books**

1. VOLSCHENK, T., DE VILLIERS, J.F. & BEUKES, O. 2003. The selection and calibration of a model for irrigation scheduling of deciduous fruit orchards. WRC Report No. 892/1/03. Pretoria: Water Research Commission.
2. BEUKES, O., VOLSCHENK, T., KARSTEN, J.H.M. & DE VILLIERS, J.F, 2003. Deficit irrigation studies to improve irrigation scheduling in deciduous fruit orchards. WRC Report No. 892/2/03. Pretoria: Water Research Commission.
3. VOLSCHENK, T., FEY, M.V. & ZIETSMAN, H.L. 2006. Situation-analysis of problems for water quality management in the Lower Orange River region with special reference to the contribution of the irrigated foothills to salinization. WRC Report No. 1358/1/05. Pretoria: Water Research Commission.

### **Thesis**

1. VOLSCHENK T., 2006. The effect of saline irrigation on selected soil properties, plant physiology and vegetative and reproductive growth of Palsteyn apricot.

### **Chapters in other publications**

1. VOLSCHENK T., 2004. Die invloed van brakwater en -grond op die produksie en kwaliteit van steenvrugte.. *In*: Louw, P.J.E. (Ed), 2004. Grondkundige aspekte vir optimum produksie van vrugkwaliteit in die Breëriviervallei. 2nd Ed. Electronic publication.
2. VOLSCHENK T. & BEUKES O., 2004. Bepaling van die waterverbruik vir die besproeiingskedulering van steenvrugte.. *In*: Louw, P.J.E. (Ed), 2004. Grondkundige aspekte vir optimum produksie van vrugkwaliteit in die Breëriviervallei. 2nd Ed. Electronic publication.

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### Scientific publications

1. Meyer A.H., Valentine A.J., Botha A., Archer E., Louw P.J.E., 2004. Young grapevine response and root colonisation following inoculation with arbuscular mycorrhizal fungi. *SA Journal of Enology & Viticulture*, 25 (1): 26-32.
2. Meyer A.H., Valentine A.J., Botha A., Archer E., Louw P.J.E., 2005. Mycorrhizal fungi associated with inoculated and uninoculated field grown grapevines. *SA Journal of Enology & Viticulture*, 26: 90-94.
3. Cwala Y., Laubscher C.P., Ndakidemi P.A., Meyer A.H., 2010. Mycorrhizal root colonisation and the subsequent host response of soil less grown tomato plants in the presence and absence of the mycorrhizal stimulant, Mycotech. *African Journal of Microbiology Research*, 4 (5): 414-419.
4. Meyer, A.H., Wooldridge, J., Dames, J.F., 2014. Relationship between soil alteration index three (AI3), soil organic matter and tree performance in a 'Cripps Pink'/M7 apple orchard *South African Journal of Plant and Soil* 31 (3): 173-175.
5. Meyer, A.H., Wooldridge, J., Dames, J.F., 2015. Effect of conventional and organic orchard floor management practices on enzyme activities and microbial counts in a 'Cripp's Pink'/M7 apple orchard *South African Journal of Plant and Soil* 32 (2): 105-112.
6. Meyer, A.H., Wooldridge, J., Dames, J.F., 2015. Variation in urease and  $\beta$ -glucosidase activities with soil depth and root density in a 'Cripp's Pink'/M7 apple orchard under conventional and organic management. *South African Journal of Plant and Soil* 32 (4): 227-234.
7. Meyer, A.H., Wooldridge, J., Dames, J.F., 2015. Effect of organic and conventional practices on carbon-substrate utilisation by the soil microbial community in a 'Cripps Pink'/M7 apple orchard. *South African Journal of Plant and Soil*. 31 (4): 237-239.
8. Meyer, A.H., Wooldridge, J., Dames, J.F., 2015. Effect of conventional and organic orchard floor management practices on arbuscular mycorrhizal fungi in a 'Cripp's Pink'/M7 apple orchard soil. *Agriculture, Ecosystems and Environment* 213: 114–120.
9. Mtimkulu, Y., Meyer, A.H., Mulidzi, A.R., Shange, P.L., Nchu, F., 2016. Assessing and monitoring the effects of filter material amendments on the biophysicochemical properties during composting of solid winery waste under open field and varying climatic conditions. *Waste Management* 59: 59–69.

### Popular publications

1. Meyer A.H., 2002. Evaluation of mycorrhiza as soil conditioner in wine grape production. *Organic viticulture made easy*, 1: 1-3.
2. Meyer A.H., Vries F.A., Klaasen J.A., Du Plessis H.W. & Du Plessis K., 2004. Beneficial micro-organisms of the fruit, vine and wine industries. *SA Fruit Journal*, 15/10/2004, 3(5): 22-27.
3. Meyer A.H., 2007. Die Mikorriza Fungus – 'n Lewenslange Vennoot van die Wingerdstok. Wineland, 2007. (Submitted and Accepted for publication in May 2007).
4. Meyer A.H., 2007. The mycorrhizal fungus - a lifelong partner for the grapevine. Wineland, 2007.
5. Meyer, AH and J. Wooldridge., 2008. Mikorriza fungi in Wes-Kaapse wingerdkwekerie (Deel 1) Soort en Verspreiding. Wineland, 2008, September 2008, 70-72 (10-12). Afrikaans
6. Meyer, AH and J. Wooldridge, 2008. Mikorriza fungi in Wes-Kaapse wingerdkwekerie (Deel 2) Spoortellings, wortelkolonisering en grondfaktore. Wineland, 2008, November 2008, 106-108 (14-16). Afrikaans
7. Meyer A.H., 2009. Press Release: A new soil microbiology laboratory (Microlab). *SA Fruit Journal*, 1/6/2009.
8. Meyer A.H., 2009. The Mycorrhizal Fungus: A contributor to soil and root health. *SA Fruit Journal*, 1/6/2009, 8: 68-70. (English).
9. Meyer A.H., 2009. Arbuskulêre Mikorriza (AM) in wingerd (Deel 1): Uitwerking van AM inokulasie, swamdoder en onderstok op grond AM populasies. Wineland, 1/4/2009: 67-69. (Afrikaans).

10. Meyer A.H. & WOOLDRIDGE J., 2009. Arbuskulêre mikorrisa (AM) in wingerd (Deel2): Uitwerking van AM op die prestasie van jong wingerd. *Wineland*, 8/5/2009: 10(78-80). (English).
11. Meyer A.H., 2010. Using biological indicators for testing soil health. *SA Fruit Journal*, 1/6/2010: 41-42. (English).
12. Meyer A.H., 2013. Survey on Mycorrhizal fungi in apple orchards. *SA Fruit Journal*, June/July/2013: 48-49. (English).
13. Meyer A.H., 2013. Aanwysers van grondgehalte, *Landbouweekblad*, April/2013: 81. (Afrikaans).
14. Meyer A.H., 2016. Apple orchard soils under organic regimes better able to sustain critical ecosystem functions than conventional systems. *AgriCulture*, July 2016, page 81.

#### **Technical Reports**

- 1) Meyer, A. 2014. Chapter 6: Effect of irrigation with augmented winery wastewater on soil microbial status. In: *The impact of wastewater irrigation by wineries on soil, crop growth and product quality*. Myburgh, P.A. & Howell, C.L. (eds). WRC Report No. 1881/1/14. ISBN 978-1-4312-0591-2.

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### Popular articles

1. Lategan, E.L. & Howell, C.L., 2010. The partial rootzone drying (PRD) of Merlot in the Breede River Valley (Part 1): Irrigation volumes, plant water stress and vigour. Wynboer Technical Yearbook 19-21. (English & Afrikaans).
2. Lategan, E.L. & Howell, C.L., 2010. The partial rootzone drying (PRD) of Merlot in the Breede River Valley (Part 2): Yield, water use efficiency and wine quality. Wynboer Technical Yearbook 22-24. (English & Afrikaans).
3. Myburgh, P.A. & Howell, C.L., 2012. Bepaling van oorsake vir infiltrasieprobleme in drupbesproeide wingerde in die Breërivier-vallei. September Wineland. (English & Afrikaans).
4. Howell, C.L. & Myburgh, P.A., 2013. Permissible element concentrations in water used for grapevine irrigation. Part 1 - pH, N, P and cations. January Wineland. (English & Afrikaans).
5. Howell, C.L. & Myburgh, P.A., 2013. Permissible element concentrations in water used for grapevine irrigation. Part 2 - Anions, trace elements and heavy metals. February Wineland. (English & Afrikaans).
6. Posthumus, C., 2013. Recycling winery wastewater for vineyard irrigation. What are the soil & grapevine responses? Article based on an interview of Carolyn Howell with regards to the work done by Myburgh, Howell and Lategan.
7. Myburgh, P.A. & Howell, C.L., 2015. Guidelines for preventing over-irrigation of table grapes. SA Fruit Journal June/July 50-53.
8. Myburgh, P. & Howell, C., 2016. Grapevine responses to salinity-associated soil chemical properties. September Wineland. (English & Afrikaans).
9. Howell, C.L., Myburgh, P.A. & Lategan, E.L., 2016. Cabernet Sauvignon responses to irrigation using winery wastewater. October Wineland. (English & Afrikaans).
10. Howell, C.L., Myburgh, P.A. & Lategan, E.L., 2016. Effect of irrigation with diluted winery wastewater on Cabernet Sauvignon juice and wine pH. November Wineland. (English & Afrikaans).
11. Howell, C.L., Myburgh, P.A. & Lategan, E.L., 2016. Re-using diluted winery wastewater for irrigation of wine grapes. Business Essentials 1 June. Electronic popular journal. Article link: <http://www.businessessentials.co.za/re-using-diluted-winery-wastewater-for-the-irrigation-of-wine-grapes/>

### Scientific articles

1. Myburgh, P.A., Howell, C.L. & Brink, D., 2002. A field method to determine three-dimensional infiltrability of vineyard soils. *S. Afr. J. Plant Soil* 19, 173-177.
2. Myburgh, P.A. & Howell, C.L., 2006. Water relations of *Vitis vinifera* L. cv. Sunred Seedless in response to soil water depletion level before harvest. *S. Afr. J. Enol. Vitic.* 27, 196-201.
3. Myburgh, P.A. & Howell, C.L., 2007a. Responses of Sunred Seedless and Muscat Supreme to irrigation during berry ripening. I – Growth, yield and juice Analyses. *S. Afr. Fr. J.* Dec 06/Jan 07, 48-53.
4. Myburgh, P.A. & Howell, C.L., 2007b. Responses of Sunred Seedless and Muscat Supreme to irrigation during berry ripening. II – Quality aspects. *S. Afr. Fr. J.* Feb/March 07, 28-32.
5. Howell, C.L., Lanyon, D.M. & McCarthy, M., 2007. Soil management for yield and quality. *Aust. N. Z. Grapegrow. Winemak.* September, 74-77.
6. Myburgh, P.A. & Howell, C.L., 2007. Evapotranspiration of *Vitis vinifera* L. cv. Sunred Seedless and Muscat Supreme to response to soil water depletion level and irrigation cut off. *S. Afr. J. Plant Soil* 24, 4, 209-213.
7. Myburgh, P.A. & Howell, C.L., 2012. Comparison of three different fertigation strategies for drip irrigated table grapes - Part I. Soil water status, root system characteristics and plant water status. *S. Afr. J. Enol. Vitic.* 33, 264-274.
8. Howell, C.L. & Conradie, W.J., 2013. Comparison of three different fertigation strategies for drip irrigated table grapes - Part II. Soil and grapevine nutrient status. *S. Afr. J. Enol. Vitic.* 34, 10-20.
9. Howell, C.L., Myburgh, P.A. & Conradie, W.J., 2013. Comparison of three different fertigation strategies for drip irrigated table grapes - Part III. Growth, yield and quality. *S. Afr. J. Enol. Vitic.* 34, 21-29.
10. Myburgh, P.A. & Howell, C.L., 2014. Assessing the ability of fodder beet (*Beta vulgaris* L. "Brigadier") to absorb sodium from a soil irrigated with sodium-enriched water. *S. Afr. J. Plant Soil* 33, 264-274.
11. Myburgh, P.A. & Howell, C.L., 2014. Use of boundary lines to determine effects of some salinity-associated soil variables on grapevines in the Breede River Valley. *S. Afr. J. Enol. Vitic.* 35, 234-241. (Winner of SASEV 2016 Prize for best article).
12. Myburgh, P.A., Lategan, E.L. & Howell, C.L., 2014. Infrastructure for irrigation of grapevines with diluted winery wastewater in a field experiment. *Water SA* 41, 5, 643-647.
13. Howell, C.L., Myburgh, P.A., Lategan, E.L. & Hoffman, J.E., 2015. An assessment of winery wastewater diluted for irrigation of grapevines in the Breede River Valley with respect to water quality and nutrient load. *S. Afr. J. Enol. Vitic.* 36, 413-425.
14. Howell, C.L., Myburgh, P.A., Lategan, E.L. & Hoffman, J.E., 2016. Seasonal variation in composition of winery wastewater in the Breede River Valley with respect to classical water quality parameters. *S. Afr. J. Enol. Vitic.* 37, 31-38.
15. Howell, C.L., Myburgh, P.A., Lategan, E.L. & Hoffman, J.E., 2016. Effect of irrigation using diluted winery wastewater on *Vitis vinifera* L. cv. Cabernet Sauvignon in a sandy alluvial soil in the Breede River Valley - Vegetative growth, yield and wine quality. *S. Afr. J. Enol. Vitic.* 37, 2, 211-225.

### Reports

1. Myburgh, P.A. & Howell, C.L. (eds). The impact of wastewater irrigation by wineries on soil, crop growth and product quality. WRC Report No. 1881/1/14. ISBN 978-1-4312-0591-2.
2. Lategan, E.L. & Howell, CL. (eds). Deficit irrigation and canopy management practices to improve water use efficiency and profitability of wine grapes. WRC Report No. 2080/1/16. ISBN 978-1-4312-0816-6.