

3 Bibliography

3.1 Essential Reading

Becker P (1998) **Limitations of a compensation heat pulse velocity system at low sap flow: Implications for measurements at night and in shaded trees.** *Tree Physiology* 18: 177-184.

Becker P and Edwards W (1999) **Corrected heat capacity of wood for sap flow calculations.** *Tree Physiology* 19: 767-768.

Burgess S.S.O, Adams M.A, Turner N.C, Beverly C.R, Ong C.K, Khan A.A.H, Bleby T.M. 2001 **An improved heat pulse method to measure low and reverse rates of sap flow in woody plants:** *Tree Physiology* 21, 589–598

Burgess, S.S.O., Adams, M.A., Turner, N.C., Ong, C.K., Khan, A.A.H., Beverly, C.R. and Bleby, T.M. 2001, '**Correction: An Improved Heat Pulse Method to Measure Low and Reverse Rates of Sap Flow in Woody Plants**', *Tree Physiology*, vol. 21, no. 15, pp. 1157.

Burgess, S.S.O., Adams, M.A., Turner, N.C. and Ong, C.K. 1998, '**The Redistribution of Soil Water by Tree Root Systems**', *Oecologia*, vol. 115, no. 3, pp. 306-311.

Burgess, S.S.O., Adams, M.A. and Bleby, T.M. 2000, '**Measurement of Sap Flow in Roots of Woody Plants: a Commentary**', *Tree Physiology*, vol. 20, no. 13, pp. 909-913.

Burgess, S.S.O., Adams, M.A., Turner, N.C., White, D.A. and Ong, C.K. 2001, '**Tree Roots: Conduits for Deep Recharge of Soil Water**', *Oecologia*, vol. 126, no. 2, pp. 158-165.

Burgess, S.S.O. and Bleby, T.M. 2006, '**Redistribution of Soil Water by Lateral Roots Mediated by Stem Tissues**', *Journal of Experimental Botany*, vol. 57, no. 12, and pp. 3283-3291.

Burgess, S.S.O. and Dawson, T.E. 2004, '**The Contribution of Fog to the Water Relations of *Sequoia sempervirens* (D. Don): Foliar Uptake and Prevention of Dehydration**', *Plant Cell & Environment*, vol. 27, pp. 1023-1034.

Burgess, S.S.O. and Dawson, T.E. 2008, '**Using Branch and Basal Trunk Sap Flow Measurements to Estimate Whole-plant Water Capacitance: a Caution**', *Plant and Soil*, vol. 305, pp. 5-13.

Edwards WRN, Becker P and Cermak J (1997) **A unified nomenclature for sap flow measurements.** *Tree Physiology* 17: 65-67.

Edwards WRN and Warwick NWM. 1984 **Transpiration of a kiwifruit vine as estimated by the heat-pulse technique and the Penman Monteith equation** *New Zealand Journal of Agricultural Research*, 27, 537-543.

Eller, C.B., Pereira, C.G., Oliveira, R.S., Downey, A.M., Burgess, S.S.O., 2012 **Differences in Sap Flow Data Quality between a Thermocouple based HRM Sensor and a Newly Specialised HRM Sap Flow Meter**, *Technical Note* www.ictinternational.com

Hatton TJ, Catchpole EA and Vertessy RA (1990) **Integration of sap-flow velocity to estimate plant water use.** *Tree Physiology* 6: 201-210.

Hatton TJ, Moore SJ and Reece PH (1995) **Estimating stand transpiration in a *Eucalyptus populnea* woodland with the heat pulse method: measurement errors and sampling strategies.** *Tree Physiology* 15: 219-227.

Hultine, K.R., Cable, W.L., Burgess, S.S.O. and Williams, D.G. 2003, '**Hydraulic Redistribution by Deep Roots of a Chihuahuan Desert Phreatophyte**', *Tree Physiology*, vol. 23, no. 5, pp. 353-360.

Marshall D.C. 1958 **Measurement of Sap Flow in Conifers by Heat Transport.** *Plant Physiology* Volume 33, Number 6, 385-396.

Oliveira, R.S., Dawson, T.E., Burgess, S.S.O. and Nepstad, D.C. 2005, '**Hydraulic Redistribution in Three Amazonian Trees**', *Oecologia*, vol. 145, pp. 354-363.

Smith DM and Allen SJ (1996) **Measurement of sap flow in plant stems.** *Journal of Experimental Botany* 47: 1833-1844.

Swanson RH and Whitfield DAW (1981) **A numerical analysis of heat pulse velocity theory.** *Journal of Experimental Botany* 32: 221-239.

Wullschleger SD, Meinzer FC and Vertessy RA (1998) **a review of whole-plant water use studies in trees.** *Tree Physiology* 18: 499-512.

3.2 *Highly recommended reading*

- Barrett DJ, Hatton TJ, Ash JE and Ball MC (1995) **Evaluation of the heat pulse velocity technique for measurement of sap flow in rainforest and eucalypt forest species of south-eastern Australia.** *Plant, Cell & Environment* 18: 463-469.
- Burgess SSO, Adams MA, Turner NC, White DA and Ong CK (2001) **Tree roots: conduits for deep recharge of soil water.** *Oecologia* 126: 158-165.
- Burgess SSO, Pate JS, Adams MA and Dawson TE (2000) **Seasonal water acquisition and redistribution in the Australian woody phreatophyte, *Banksia prionotes*.** *Annals of Botany* 85: 215-224.
- Cohen Y, Takeuchi S, Nozaka J and Yano T (1993) **Accuracy of sap flow measurement using heat balance and heat pulse methods.** *Agronomy Journal* 85: 1080-1086.
- Dunn GM and Connor DJ (1993) **an analysis of sap flow in mountain ash (*Eucalyptus regnans*) forests of different age.** *Tree Physiology* 13: 321-336.
- Dye PJ, Soko S and Poulter AG (1996) **Evaluation of the heat pulse velocity method for measuring sap flow in *Pinus patula*.** *Journal of Experimental Botany* 47: 975-981.
- Green SR and Clothier BE (1988) **Water use of kiwifruit vines and apple trees by the heat-pulse technique.** *Journal of Experimental Botany* 39: 115-123.
- Hatton TJ, Greenslade D and Dawes WR (1992) **Integration of sap flow velocity in elliptical stems.** *Tree Physiology* 11: 185-196.
- Hatton TJ and Wu HI (1995) **Scaling theory to extrapolate individual tree water use to stand water use.** *Hydrological Processes* 9: 527-540.
- Olbrich BW (1991) **The verification of the heat pulse velocity technique for estimating sap flow in *Eucalyptus grandis*.** *Canadian Journal of Forest Research* 21: 836-841.
- Swanson RH (1994) **Significant historical developments in thermal methods for measuring sap flow in trees.** *Agricultural & Forest Meteorology* 72: 113-132.
- Vertessy RA, Hatton TJ, Reece P, O'Sullivan SK and Benyon RG (1997) **Estimating stand water use of large mountain ash trees and validation of the sap flow measurement technique.** *Tree Physiology* 17: 747-756.
- Zang D, Beadle CL and White DA (1996) **Variation of sap flow velocity in *Eucalyptus globulus* with position in sapwood and use of a correction coefficient.** *Tree Physiology* 16: 697-703.