



ICT International Pty Ltd

Instrumentation for Soil, Crop & Environmental Monitoring

Heat Ratio Method Sapflow References

<http://ictinternational.com.au/hrm30.htm>

Bleby, T.M., Aucote, M., Kennett-Smith, A.K., Walker, G.R. and Schachtman, D.P. 1997, '**Seasonal Water Use Characteristics of Tall Wheatgrass [*Agropyron elongatum* (Host) Beauv.] in a Saline Environment**', *Plant Cell & Environment*, vol. 11, pp. 1361-1371.

Bleby, T.M., Burgess, S.S.O. and Adams, M.A. 2004, '**A Validation, Comparison and Error Analysis of two Heat-pulse Methods for Measuring Sap Flow in *Eucalyptus marginata* Saplings**', *Functional Plant Biology*, vol. 36, no. 6, pp. 645-658.

Bucci, S.J., Scholz, F.G., Goldstein, G., Meinzer, F.C., Hinojosa, J.A., Hoffmann, W.A. and Franco, A.C. 2004, '**Processes Preventing Nocturnal Equilibration between Leaf and Soil Water Potential in Tropical Savanna Woody Species**', *Tree Physiology*, vol. 24, no. 10, pp. 1119-1127.

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., Beverly, C.R., Ong, C.K., Khan, A.A.H. and Bleby, T.M. 2001, '**An Improved Heat Pulse Method to Measure Low and Reverse Rates of Sap Flow in Woody Plants**', *Tree Physiology*, vol. 21, pp. 589-598.

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., 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., 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, 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.

ICT International Pty Ltd

PO Box 503 Armidale NSW 2350 Australia ABN: 75002372554

Phone: 61 2 6772 6770 Fax: 61 2 6772 7616

E-mail: sales@ictinternational.com.au

- Burgess, S.S.O., Pate, J.S., Adams, M.A. and Dawson, T.E. 2000, '**Seasonal Water Acquisition and Redistribution in the Australian Woody Phreatophyte, *Banksia prionotes***', *Annals of Botany*, vol. 85, no. 2, pp. 215-224.
- 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.
- Hultine, K.R., Scott, R.L., Cable, W.L., Goodrich, D.C. and Williams, D.G. 2004, '**Hydraulic Redistribution by a Dominant, Warm-desert Phreatophyte: Seasonal Patterns and Response to Precipitation Pulses**', *Functional Ecology*, vol. 18, no. 4, pp. 530-538.
- Hultine, K.R., Williams, D.G., Burgess, S.S.O. and Keefer, T.O. 2003, '**Contrasting Patterns of Hydraulic Redistribution in Three Desert Phreatophytes**', *Oecologia*, vol. 135, no. 2, pp. 167-175.
- Lee, J.-E., Oliveira, R.S., Dawson, T.E. and Fung, I. 2005, '**Root Functioning Modifies Seasonal Climate**', *Proceedings of the National Academy of Sciences of the United States of America*, vol. 102, no. 49, pp. 17576-17581.
- Oliveira, R.S., Dawson, T.E. and Burgess, S.S.O. 2005, '**Evidence for Direct Water Absorption by the Shoot of the Desiccation-tolerant Plant *Vellozia flavicans* in the Savannas of Central Brazil**', *Journal of Tropical Ecology*, vol. 21, pp. 585-588.
- 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.
- Scholz, F.G., Bucci, S.J., Goldstein, G., Meinzer, F.C. and Franco, A.C. 2002, '**Hydraulic Redistribution of Soil Water by Neotropical Savanna Trees**', *Tree Physiology*, vol. 22, no. 9, pp. 603-612.
- Williams, D.G., Cable, W., Hultine, K., Hoedjes, J.C.B., Yopez, E.A., Simonneaux, V., Er-Raki, S., Boulet, G., de Bruin, H.A.R., Chehbouni, A., Hartogensis, O.K. and Timouk, F. 2004, '**Evapotranspiration Components Determined by Stable Isotope, Sap Flow and Eddy Covariance Techniques**', *Agricultural and Forest Meteorology*, vol. 125, no. 3-4, pp. 241-258.
- Zeng, F., Bleby, T.M., Landman, P.A., Adams, M.A. and Arndt, S.K. 2006, '**Water and Nutrient Dynamics in Surface Roots and Soils are not Modified by Short-term Flooding of Phreatophytic Plants in a Hyperarid Desert**', *Plant and Soil*, vol. 279, pp. 129-139