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REFERENCES

- Condit, R., Aguilar, S.P., Hernandez, A., Perez, R., Lao, S., Angehr, G., Hubbell, S.P., and Foster, R.B. 2004. Tropical forest dynamics across a rainfall gradient and the impact of an El Niño dry season. *J. Tropical ecology* 20:51-72.
- Condit, R., Hubbell, S. P., and Foster R. B. 1995. Mortality rates of 205 neotropical tree and shrub species and the impact of severe drought. *Ecol Monogr.* 65: 419–439.
- [DEPTAN] Departemen Pertanian. 2006. Statistik Perkebunan Indonesia 2003-2005: Kakao. Departemen Pertanian, Direktorat Jenderal Perkebunan, Jakarta.
- Edwards, W. and Krockenberger. 2006. Seedling mortality due to drought and fire associated with the 2002 El Niño event in a tropical rain forest in North – east Queensland, Australia. *J. Biotropica* 38: 16-26.
- Jones, H. G. 1992. *Plants and microclimate*, 2nd edition. Cambridge University Press. Cambridge.
- Keil, A., Zeller, M., and Wida, A. 2008. What determines farmers' resilience towards ENSO-related drought? An empirical assessment in central Sulawesi, Indonesia. *Clim Change* 86: 291-307.
- Kozlowski, T. T. and Pallardy, S. G. 1997. *Physiology of woody plants*, 2nd edition. Academic Press, San Diego.
- Lambers, H., Chapin, F. S. and Pons, T. L. 1998. *Plant Physiological Ecology*. Springer-Verlag. New York.
- Larcher, W. 1995. *Physiological Plant Ecology*. Springer-Verlag. New York. USA.
- Meyer, R.F., and Boyer, J.S. 1981. Osmoregulation solute distribution and growth in soybean seedlings having low water potential. *Planta* 151: 482-489.
- Nakagawa, M. 2000. Impact of severe drought associated with the 1997-1998 El Niño in a tropical forest in Sarawak. *J. of Tropical Ecology* 16: 355-367.
- Nepstad, D.C., Tohver, I.M, Rav, D, Moutinho, P. And Cardinot, G. 2007. Mortality of large trees and lianas following experimental drought in an Amazon Forest. *J. Ecology*, 88(9) : 2259-2269.
- Ogaya, R., and Peñuelas, J. 2003. Comparative field study of *Quercus ilex* and *Phillyrea latifolia*: photosynthetic response to experimental drought conditions. - *Environ. exp. Bot.* 50:137-148.