

# ARC

The following is a list of general references and research papers on wildlife crossing structures and road ecology. More detailed technical, site-specific information will be available to registered teams once the design competition is underway. Please watch [www.arc-competition.com](http://www.arc-competition.com) for updates.

Ament, R., Clevenger, A.P., Yu, O., and A. Hardy. (2008). An Assessment of Road Impacts on Wildlife Populations in U.S. National Parks. *Environmental Management*, 42(3), 480-96.

At the Crossroads: Transportation and Wildlife. (2008). Highway 3 Transportation Corridor Workshop: Fernie, BC. [www.rockies.ca/crossroads](http://www.rockies.ca/crossroads)

Bekker, Hans & Martin Vastenhout. (1995). *Natuur Over Wegen / Nature Across Motorways*. Rijkswaterstaat (RWS), Dienst Weg- en Waterbouwkunde (DWW), Delft, Netherlands.

Chester, C.C. (2004). Highway Funding for Nature: A Major Conservation Opportunity?. Henry P. Kendall Foundation. [www.kendall.org/publications/reports/Highways.pdf](http://www.kendall.org/publications/reports/Highways.pdf)

Clevenger, A. P., and M. P. Huijser. (2009). Handbook for Design and Evaluation of Wildlife Crossing Structures in North America. FHWA. [http://www.westerntransportationinstitute.org/documents/reports/425259\\_Final\\_Report.pdf](http://www.westerntransportationinstitute.org/documents/reports/425259_Final_Report.pdf).

Clevenger, A. P. (2005). Conservation value of wildlife crossings: measures of performance and research directions. *GAIA*, 14, 124–129.

Clevenger, A. P., and J. Wierzchowski. (2006). Maintaining and Restoring Connectivity in Landscapes Fragmented by Roads. In K.R. Crooks and M. Sanjayan (Eds.), *Maintaining Connections for Nature* (pp. 502-35). Cambridge: Cambridge University Press.

Clevenger, A. P. and N. Waltho. (2005). Performance indices to identify attributes of highway crossing structures facilitating movement of large mammals. *Biological Conservation*, 121, 453–464.

Clevenger, A. P. and N. Waltho. (2003). Long-term, year-round monitoring of wildlife crossing structures and the importance of temporal and spatial variability in performance studies. In *Proceedings of the International Conference on Ecology and Transportation*. Center for Transportation and the Environment, 24–29. (pp.293-302). Lake Placid, New York, USA.

Clevenger, A. P. and N. Waltho. (2000). Factors influencing the effectiveness of wildlife underpasses in Banff National Park, Alberta, Canada. *Conservation Biology*, 14, 47–56.

Ford, A.T., Clevenger, A.P. and A. Bennett. (2009). Comparison of methods for monitoring wildlife crossing structures. *Journal of Wildlife Management*, 73(7), 1213-1222.

Forman, R. T. T., D. Sperling, J. A. Bissonette, A. P. Clevenger, C. D. Cutshall, V. H. Dale, L. Fahrig, R. France, C. R. Goldman, K. Heanue, J. A. Jones, F. J. Swanson, T. Turrentine, and T. C. Winter. (2003). *Road Ecology: Science and Solutions*. Island Press: Washington, D.C. 481 pp.

Huijser, Marcel P., and A. P. Clevenger. (2006). Habitat and Corridor Function of Rights-of-Ways. In J. Davenport and J.L. Davenport (Eds.), *The Ecology of Transportation: Managing Mobility for the Environment*. London: Springer .

Western Transportation Institute. (2008). Road Ecology. [www.westerntransportationinstitute.org/research/roadecology](http://www.westerntransportationinstitute.org/research/roadecology).

