**Literature Cited**

Aplet, G.H., S.J. Anderson, and C.P. Stone. 1991. Association between feral pig disturbance and the composition of some alien plant assemblages in Hawaii Volcanoes National Park. Vegetatio **95**: 55-62.

Seastedt, T.R., R.J. Hobbs, and K.N. Suding. 2008. Management of novel ecosystems: are novel approaches required? Frontiers in Ecology and the Environment **6**: 547-553.

Hobbs, R.J., E. Higgs, and J.A. Harris. 2009. Novel ecosystems: implications for conservation and restoration. Trends in Ecology and Evolution 24: 599-605.

Hobbs, R.J., L.M. Hallett, P.R. Ehrlich, and H.A. Mooney. 2011. Intervention ecology: applying ecological science in the twenty-first century. BioScience 61: 442-450.

Zavaleta, E.S., R.J. Hobbs, and H.A. Mooney. 2001. Viewing invasive species removal in a whole-ecosystem context. Trends in Ecology and Evolution 16: 454-459.

Godefroid, S. et al., 2011. How successful are plant species reintroductions? Biological Conservation. 144: 672-682.

Blackburn, T.M., P. Cassey, R.P. Duncan, K.L. Evans, and K.J. Gaston. 2004. Avian extinction and mammalian introductions on oceanic islands. Science **305**: 1955-1958.

Bowen, L. and D. Van Vuren. 1997. Insular endemic plants lack defenses against herbivores. Conservation Biology. **11**: 1249-1254.

Brokaw N.V.L., and S.M. Scheiner. 1989. Species composition in gaps and structure of a tropical forest. Ecology. **70**: 538-541

Burnham, K. P. and D.R. Anderson. 2004. [Multimodel inference: understanding AIC and BIC in Model Selection](http://www.sortie-nd.org/lme/Statistical%20Papers/Burnham_and_Anderson_2004_Multimodel_Inference.pdf). Sociological Methods and Research **33**: 261-304.

Cabin, R.J., S.G. Weller, D.H. Lorence, T.W. Flynn, A.K. Sakai, D. Sandquist, and L.J. Hadway. 2000. Effects of long-term ungulate exclusion and recent alien species control on the preservation and restoration of a Hawaiian tropical dry forest. Conservation Biology **14**: 439-453.

 Connell, J.H. 1978. Diversity in tropical rain forests and coral reefs. [Science](http://en.wikipedia.org/wiki/Science_(journal)) **199**: 1302–1310.

Conry, P. 1989. Ecology of the wild (feral) pig (*Sus scrofa*) on Guam. Technical Report 7. Division of Aquatic and Wildlife Resources, Department of Agriculture, Guam.

Coomes, D.A., R.B. Allen, D.M. Forsyth, and W.G. Lee. 2003. Factors preventing recovery of New Zealand Forests following control of invasive deer. Conservation Biology. **17**: 450-459.

Côté, S.D., T.P. Rooney, J. Tremblay, C. Dussault, and D.M. Waller. Ecological impacts of deer overabundance. Annual Review of Ecology, Evolution, and Systematics **35**:113–47

Courchamp F., J.L. Chapuis, and M. Pascal. 2003. Mammal invaders on islands: impact, control and control impact. Biological Reviews **78**: 347–83.

De Garine-Wichatitsky, M., P. Duncan, A. Labbé, B. Suprin, P. Chardonnet, and D. Maillard. 2003. A review of the diet of rusa deer *Cervus timorensis russa* in New Caledonia: Are the endemic plants defenceless against this introduced, eruptive, ruminant? Pacific Conservation Biology. **9**: 136-145.

Dewey, T. and J. Hruby. 2002. *Sus scrofa*, Animal Diversity Web. Available from <http://animaldiversity.ummz.umich.edu/site/accounts/information>

/Sus\_scrofa.html Accessed January 20, 2010.

Donnegan, J.A., S.L. Butler, W. Grabowiecki, B.A. Hiserote, and D. Limtiaco. 2002. Guam’s Forest Resources, 2002. The Forestry Service, U.S. Department of Agriculture, Portland, Oregon.

Federal Register. 1994. Endangered and Threatened Wildlife and Plants; Animal Candidate Review for Listing as Endangered or Threatened Species; Proposed Rule. Federal Register, Vol. 59, November 15, 1994.

Fosberg 1960 The Vegetation of Micronesia, 1: General Descriptions, the Vegetation of the Mariana Islands, and a Detailed Consideration of the Vegetation of Guam. Bulletin of American Museum of Natural History. **119:** 53-75.

Fritts, T.H., and G.H. Rodda. 1998. The role of introduced species in the degradation of island ecosystems: a case history of Guam. Annual Review of Ecology and Systematics. **29**: 113-140.

Gill, R.M.A., and V. Beardall. 2001. The impact of deer on woodlands: the effects of browsing and seed dispersal on vegetation structure and composition. Forestry. **74**: 209-218.

Horsley, S.B., S.L. Stout, D.S. DeCalesta. 2003. White-tailed deer impact on the vegetation dynamics of a northern hardwood forest. Ecological Applications. **13**: 98-118.

Ickes, K., S. J. Dewalt, and S. Appanah. 2001. Effects of native pigs (*Sus scrofa*) on woody understorey vegetation in a Malaysian lowland rain forest. Journal of Tropical Ecology. **17**: 191-206.

ISSG (Global Invasive Species Database). 2005. *Coccinia grandis* Species Profile. Available from [http://www.issg.org/database/species//ecology.asp?si=348&fr=1&sts=sss&lang=EN](http://www.issg.org/database/species/ecology.asp?si=42) Accessed April 05, 2012.

ISSG (Global Invasive Species Database). 2005. *Mikania micrantha* Species Profile. Available from <http://www.issg.org/database/species/ecology.asp?si=42> Accessed December 27, 2011.

Janzen, D.H. 1984. Dispersal of small seeds by big herbivores: foliage is the fruit. The American Naturalist. **123**: 338-353.

Joint Region Marianas (JRM). 2011. Joint Region Marianas Integrated Natural Resources Management Plan. Guam, Tinian, Farallon de Medinilla.

Joe, S.M. and C.C. Daehler. 2008. Invasive slugs as under-appreciated obstacles to rare plant restoration: evidence from the Hawaiian Islands. Biological Invasions **10:** 245-255.

Katahira, L. 1980. The effects of feral pigs on a montane rain forest in Hawaii Volcanoes National Park. In:Smith, C.W. (ed) Proceedings of the third conference in Natural Sciences. University of Hawaii Press, Honolulu, pp 173–178.

Knutson, K., and S. Vogt. 2002. Philippine deer and feral pig sampling on northern Guam. Report for Andersen Air Force Base Civil Engineering Fleet, Environmental Division.

Leigh, Jr., E.G., G.J. Vermeij, and M. Wikelski. 2009. What do human economies, large islands and forest fragments reveal about the factors limiting ecosystem evolution? European Society for Evolutionary Biology. Journal Compilation **22**: 1-12.

Loh, R.K. and J.T. Tunison. 1999. Vegetation recovery following pig removal in `Ola `A-Koa Rainforest unit, Hawaii Volcanoes National Park. Technical Report 123. Pacific Cooperative Studies Unit, University of Hawaii at Manoa.

Manly BFJ, L.L. McDonald, D.L. Thomas. 1993. Resource selection by animals. Chapman & Hall, London. 221 pp.

Myers, J.A., M. Vellend, S. Gardescu, and P.L. Marks. 2004. Seed dispersal by white-tailed deer: implications for long-distance dispersal, invasion, and migration of plants in eastern North America. Oecologia. **139**: 35-44.

Nogueira-Filho, S.L.G., Nogueira, S.S.C., and Fragoso, J.M.V. 2009. Ecological impacts of feral pigs in the Hawaiian Islands. Biodiversity Conservation. **18**: 3677-3683.

National Park Service. 2005. Draft Reconnaissance Survey Significant Natural Areas and Cultural Sites Island of Rota, Commonwealth of the Northern Mariana Islands. National Park Service, Pacific West Region, Honolulu, HI. Available from <http://www.botany.hawaii.edu/basch/uhnpscesu/htms/parkrota/index.htm> (accessed July 2010)

O’Dowd, D., P.T. Green, and P.S. Lake. 2003. Invasional ‘meltdown’ on an oceanic island. Ecology Letters. **6**: 812-817

Pakeman, R.J., G. Digneffe, and J.F. Small. 2002. Ecological correlates of endozoochory by herbivores. Functional Ecology. **16**: 296-304

Pacific Islands Ecosystems at Risk (PIER). “*Coccinia grandis*” Accessed April 05, 2012 at <http://www.hear.org/pier/species/coccinia_grandis.htm>

Perry, G., and J. Morton. 1999. Regeneration rates of the woody vegetation of Guam’s Northwest Field following major disturbance: land use patterns, feral ungulates, and cascading effects of the brown tree snake. Micronesica. **31**: 125-142.

Pimentel, D., R. Zuniga, and D. Morrison. 2005. Update on the environmental and economic costs associated with alien-invasive species in the United States. Ecological Economics. **52**: 273-288.

R Development Core Team (2011). R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria. ISBN 3-900051-07-0, URL http://www.R-project.org/.

Raulerson, R. and A. Rinehart. 1991. Trees and Shrubs of the Northern Mariana Islands. Coastal Resources Management, Saipan, Northern Mariana Islands. 120 pp.

Rooney, T.P. and D.M. Waller. 2003. Direct and indirect effects of white-tailed deer in forest ecosystems. Forest Ecology and Management. **181**: 165-176

Russell, F.L., D. B. Zippin, and N. L. Fowler. 2001. Effects of white-tailed deer (*Odocoileus virginianus*) on Plants, Plant Populations and Communities: A Review. American Midland Naturalist. **146**: 1-26

Safford, W.E. 1905. Useful Plants of Guam (Facsimile Edition Reprint). p. 76. Guam: Jillette Leon Guerrero / Guamology Publishing.

Savidge, J. 1987. Extinction of an island forest avifauna by an introduced snake. Ecology **68**: 660-668

Schreiner, I. 1997. Demography and recruitment of selected trees in the limestone forest of Guam in relation to introduced ungulates. Micronesica **30**: 169-181

Shannon, C.E. (1948) A mathematical theory of communication. Bell System Technical Journal **27**: 379– 423.

Singer, F.J., W.T. Swank, and E.E.C. Clebsh. 1984. Effects of wild pig rooting in a deciduous forest. The Journal of Wildlife Management **48**: 464-473

Space, J.C., M. Falanruw. 1999. [Observations on invasive plant species in Micronesia](http://www.hear.org/pier/reports/mreport.htm). USDA Forest Service, Honolulu. Report to the Pacific Islands Committee, Council of Western State Foresters. USDA Forest Service, Honolulu. 32 pp.

Spear, D. and S.L. Chown. 2009. Non-indigenous ungulates as a threat to biodiversity. Journal of Zoology **279**: 1-17

Stockton, S.A., S. Allombert, A.J. Gaston, and J. Martin. 2005. A natural experiment on the effects of high deer densities on the native flora of coastal temperate rain forests. Biological Conservation **126**: 118–128

Takatsuki, S. 2009. Effects of Sika deer on vegetation in Japan: A review. Biological Conservation **142**: 1922-1929.

Staples, G.W., D. Herbst, C.T. Imada. 2000. Survey of invasive or potentially invasive cultivated plants in Hawai‘i. Bishop Museum Occasional Papers No. 65. Honolulu, HI.

Stone, C.P., L.W. Cuddihy, and J.T. Tunison. 1992. Responses of Hawaiian ecosystems to removal of feral pigs and goats. pp. 666–704 in Alien plant invasions in native ecosystems of Hawai’i: management and research. University of Hawai’i, Cooperative National Park Resources Studies Unit, Hawaii.

Suzuki, M., T. Miyashita, H. Kabaya, K. Ochiai, M. Asada, and Z. Kikvidze. 2012. Deer herbivory as an important driver of divergence of ground vegetation communities in temperate forests. Oikos. **122:** Online preview available from <http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1600-0706/earlyview> accessed May 31, 2012.

Vásquez, D.P. and D. Simberloff. 2003. Changes in interaction biodiversity induced by an introduced ungulate. Ecology Letters **6**: 1077-1083.

Vavra, M., C.G. Parks, and M.J. Wisdom. 2007. Biodiversity, exotic plant species, and herbivory: the good, the bad, and the ungulate. Forest Ecology and Management **246:** 66-72

Veblen, T.T., M. Mermez, C. Martin, E. Ramilo. 1989. Effects of exotic deer on forest regeneration and composition in Northern Patagonia. Journal of Applied Ecology **26**: 711-724

Vickery Jr., R.K., D.R. Phillips, and P.R. Wonsavage. 1986. Seed dispersal in Mimulus guttatus by wind and deer. American Midland Naturalist **116**: 206-208.

Weller, S.G., R.J. Cabin, D.H. Lorence, S. Perlman, K. Wood, T. Flynn, and A.K. Sakai. 2010. Alien Plant Invasions, Introduced Ungulates, and Alternative States in a Mesic Forest in Hawaii. Restoration Ecology **19**: 671-680

Wheeler, M.E. 1979. The biology of the Guam deer. Technical Report 3. Aquatic and Wildlife Resources Division, Department of Agriculture, Guam.

Whitaker, R.J. and S.H. Jones. 1994. The role of frugivorous bats and birds in the rebuilding of a tropical forest ecosystem, Krakatau, Indonesia. Journal of Biogeography **21:** 245-258.

Wiles, G.J., D.W. Buden, and D.J. Worthington. 1999. History of introduction, population status, and management of Philippine deer (*Cervus mariannus*) on Micronesian Islands. Mammalia **63**: 193-215