

Environmental Publications

2018

- Boal, C.W., and **J.F. Dwyer**. 2018. Chapter 9: Harris's Hawks: All in the family. *In* Boal, C.W, and C.R. Dykstra, Editors, *Urban Raptors; Ecology and Conservation of Birds of Prey in an Urbanizing World*. Island Press, Washington D.C. *In press*.
- Bernardino, J., K. Bevanger, R. Barrientos, **J.F. Dwyer**, A.T. Marques, R.C. Martins, J.M. Shaw, J.P. Silva, and F. Moreira. 2018. Bird collisions with power lines: State of the art and priority areas for research. *Biological Conservation* 222 (2018) 1-13.
- Demeter, I., M. Horváth, K. Nagy, Z. Görögh, P. Tóth, J. Bagyura, S. Solt, A. Kovács, **J.F. Dwyer**, and **R.E. Harness**. 2018. Documenting and reducing avian electrocutions in Hungary: A conservation contribution from citizen scientists. *Wilson Journal of Ornithology* 130. *In press*.
- Dwyer, J.F.**, T.I. Hayes, R. Thorstrom, and **R.E. Harness**. 2018. Retrofitting power poles to prevent electrocution of translocated Ridgway's Hawks (*Buteo ridgwayi*). *Journal of Caribbean Ornithology* 31:in press.
- Dwyer, J.F.**, S. Hindmarch, and G.E. Kratz. 2018. Chapter 14: Raptor Mortality in Urban Landscapes. *In* Boal, C.W, and C.R. Dykstra, Editors, *Urban Raptors; Ecology and Conservation of Birds of Prey in an Urbanizing World*. Island Press, Washington D.C. *In press*.
- Dwyer, J.F.**, **M.A. Landon**, and **E.K. Mojica**. 2018. Chapter 13: Impact of Renewable Energy Sources on Birds of Prey. *In* J.M. Grande, Editor, *Birds of Prey: Biology and Conservation in the XXI Century*. Springer International Publishing, Cham Switzerland. *In press*.
- Eccleston, D.**, and **R. Harness**. 2018. Chapter 12: Raptor Electrocutions and Power Line Collisions. *In* J.M. Grande, Editor, *Birds of Prey: Biology and Conservation in the XXI Century*. Springer International Publishing, Cham Switzerland. *In press*.
- Eccleston, D.**, **R. Harness**, and **M. Baker**. 2018. Costs Dive with Tailored Planning: Shared and Unique Content in Avian Protection Plans Provide Economic Efficiency. *IEEE Industry Applications Magazine*. *In Press*.
- Mojica, E.K.**, **J.F. Dwyer**, **R.E. Harness**, G.E. Williams, and B. Woodbridge. 2018. Review and synthesis of research investigating and mitigating Golden Eagle electrocutions. *Journal of Wildlife Management* 82(3):495-506. doi:10.1002/jwmg.21412.



2017

- Dwyer, J.F.**, and A.M. Dwyer. 2017. Raptor nesting on northeast Colorado's Central Plains Experimental Range. Lark Bunting; *Denver Field Ornithologists* 53:7-8.
- Dwyer, J.F., R.E. Harness, and D. Eccleston.** 2017. Avian electrocutions on incorrectly retrofitted power poles. *Journal of Raptor Research* 51:293-304. Open Access. Available online at: <http://www.bioone.org/doi/full/10.3356/JRR-16-93.1>.
- Dwyer, J.F.,** J.R. Garrido Lopez, J. Martín, and M. Horváth. 2017. Proper retrofitting protects wildlife. *Transmission and Distribution World* 6:26-30.
- Martín, J., J.R. Garrido Lopez, **J.F. Dwyer**, and J.J. Aniceto. 2017. Líneas eléctricas peligrosas para las aves Guía de identificación de correcciones defectuosas. El Corzo. Una publicación de la Sociedad Gaditana de Historia Natural 5:56-66. Available online at: <http://sociedadgaditanahistorianatural.com/articulo-sobre-lineas-electricas-peligrosas-para-aves-no-5-el-corzo/3933/>.
- Smith, J.A., **J.F. Dwyer**, J.D. Fraser, and J.L. Morrison. 2017. A habitat model to aid the conservation of Crested Caracaras. *Journal of Wildlife Management* 81:712-719.

2016

- Dwyer, J.F.** 2016. Chihuahuan Raven. Colorado Breeding Bird Atlas II, L. Wickersham [Ed.]. Colorado Parks and Wildlife and the Colorado Bird Atlas Partnership: pp. 376-377.
- Dwyer, J.F.** 2016. Common Raven. Colorado Breeding Bird Atlas II, L. Wickersham [Ed.]. Colorado Parks and Wildlife and the Colorado Bird Atlas Partnership: pp 378-379.
- Dwyer, J.F.** 2016. Osprey. Colorado Breeding Bird Atlas II, L. Wickersham [Ed.]. Colorado Parks and Wildlife and the Colorado Bird Atlas Partnership: pp. 166-167.
- Dwyer, J.F., R.E. Harness, B.D. Gerber, M.A. Landon, P. Petersen, D.D. Austin, B. Woodbridge, G.E. Williams, and D. Eccleston.** 2016. Power pole density informs spatial prioritization for mitigating avian electrocution. *The Journal of Wildlife Management* 80:634-642.
- Dwyer, J.F., R.E. Harness,** et al. 2016. Successful use of a perch deterrent to manipulate raptor perching on model power poles. *Colorado Birds* Vol. 50. pp. 166-174.
- Dwyer, J.F., R.E. Harness,** et al. 2016. Testing a supplemental perch to prevent raptor electrocution. *Northwestern Naturalist* 97:1-6.
- Erwin, J.A., R.R. Fitak, **J.F. Dwyer**, J.L. Morrison, and M. Culver. 2016. Molecular detection of bacteria in the families *Rickettsiaceae* and *Anaplasmataceae* in northern Crested Caracaras (*Caracara cheriway*). *Ticks and Tick-borne Diseases* 7:470-474.
- Harness, R., D. Eccleston,** and M. Baker. 2016. Cost-effective avian protection plans using mobile data collection. Proceedings of the 2016 IEEE Rural Electric Power Conference. *In press*.



- Heck, N.S., **J.F. Dwyer**, **R.E. Harness**, **M.A. Landon**, and L. Nielsen. 2016. Quantifying and mitigating avian collisions with transmission lines in Pincher Creek, Alberta, Canada. Pages 353-361 in J. Doucet (Ed.), Proceedings of the 11th International Symposium on Environmental Concerns in Right-of-Way Management. Utility Arborist Association, Forest Lake, Minnesota.
- Luzenski, J., C.E. Rocca, **R.E. Harness**, J.L. Cummings, **D.D. Austin**, **M.A. Landon**, and **J.F. Dwyer**. 2016. Collision avoidance by migrating raptors encountering a new transmission power line. *The Condor* 118:402-410.
- Mojica, E.K.**, B.D. Watts, C.L. Turrin. 2016. Utilization probability map of migrating Bald Eagles in northeastern North American: a tool for siting wind energy facilities and other flight hazards. *PLoS ONE* 11(6) June 2016.
- Murphy, R.K., **J.F. Dwyer**, **E.K. Mojica**, M.M. McPherron, and **R.E. Harness**. 2016. Reactions of Sandhill Cranes approaching a marked transmission power line. *Journal of Fish and Wildlife Management* 7(2): 481-489.
- Murphy, R.K., **E.K. Mojica**, **J.F. Dwyer**, M.M. McPherron, G.D. Wright, **R.E. Harness**, **A.K. Pandey**, and K.L. Serbousek. 2016. Crippling and nocturnal biases in a study of Sandhill Crane (*Grus canadensis*) collisions with a transmission line. *Waterbirds* 39(3):312-317.
- Smith, J.A. and **J.F. Dwyer**. 2016. Avian interactions with renewable energy infrastructure: an update. *The Condor* 118:411-423.

2015

- Dwyer, J.F.** and J.P. Dalla Rosa. 2015. Use of anthropogenic nest substrates by Crested Caracaras. *Southeastern Naturalist* 14:N10-N15. (Also cover photo.)
- Dwyer, J.F.**, G.E. Kratz, **R.E. Harness**, and S.S. Little. 2015. Critical dimensions of raptors on electric utility poles. *Journal of Raptor Research* 49:210-216.
- Dwyer, J.F.**, D.L. Leiker, and S.N.D. King. 2015. Testing nest deterrents for Chihuahuan Ravens on H-frame transmission structures. *Wildlife Society Bulletin* 39:603-609.
- Harness, R.E.** and **J.F. Dwyer**. 2015. Avian electrocution risk assessment predictive model. Final report submitted to the U.S. Fish and Wildlife Service - Western Golden Eagle Team.
- Harness, R.E.** and P.R. Juvvadi. 2015. Preventing bird electrocutions – alternative construction methods could help birds and utilities. *IEEE Industry Applications Magazine* 21:22-26.
- Hoogstad, C., R. Kruger, and **R.E. Harness**. 2015. Power in the wild. *Transmission and Distribution World* Sept. 2015, 34-38.
- Lobermeier, S., M. Moldenhauer, C.M. Peter, L. Slominski, **R.A. Tedesco**, M.V. Meer, **J.F. Dwyer**, **R.E. Harness**, and **A.H. Stewart**. 2015. Mitigating avian collision with power lines: a proof of concept for installation of line markers via unmanned aerial vehicle. *Journal of Unmanned Vehicle Systems* 3:1-7.
- Martín, J.M., J.J. Aniceto del Castillo, **J.F. Dwyer**, and J.R. Garrido López. 2015. Tendidos eléctricos: no podemos bajar la guardia. *Quercus* 356:78-81.



- Turrin, C.L., B.D. Watts, and **E.K. Mojica**. 2015. Landfill use by Bald Eagles in the Chesapeake Bay region. *Journal of Raptor Research* 49:239-249.
- Vaughn, E.E., **J.F. Dwyer**, J.L. Morrison, and M. Culver. 2015. Development and characterization of polymorphic microsatellite markers for the Crested Caracara, *Caracara cheriway*. *Conservation Genetics Resources* 7:557-559.
- Watts, B.D., **E.K. Mojica**, and B.J. Paxton. 2015. Seasonal variation in space use by non-breeding Bald Eagles within the upper Chesapeake Bay. *Journal of Raptor Research* 49:250-258.
- Watts, B.D., **E.K. Mojica**, and B.J. Paxton. 2015. Using Brownian Bridges to assess potential interactions between Bald Eagles and electrical hazards within the upper Chesapeake Bay. *Journal of Wildlife Management* 79:435-445.

2014

- Dwyer, J.F.** 2014. Correlation of cere color with intra- and inter-specific agonistic interactions of Crested Caracaras. *Journal of Raptor Research* 48:240-247.
- Dwyer, J.F.** and K. Doloughan. 2014. Testing systems of avian perch deterrents on electric power distribution poles. *Human-Wildlife Interactions* 8:39-55.
- Dwyer, J.F., Harness, R.E.,** and K. Doloughan. 2014. Comparing effectiveness of competing perch deterrents for raptors and corvids. Page 146 in J. Lincer [Ed.], Abstracts from the 2014 Annual Meeting of the Society for Northwestern Vertebrate Biology. Pasco, WA.
- Gerber, B.D., **J.F. Dwyer**, S.A. Nesbitt, R.C. Drewien, C.D. Littlefield, T.C. Tacha, and P.A. Vohs. 2014. Sandhill Crane (*Grus canadensis*). In A. Poole [Ed.], The birds of North America online. Cornell Laboratory of Ornithology, Ithaca, NY, <http://bna.birds.cornell.edu/bna/species/031>.
- Harness, R.E., J.F. Dwyer,** K. Donohue, and P.R. Juvvadi. 2014. Contrasting electrocution risk models from California, USA and Rajasthan, India. Page 144 in J. Lincer [Ed.], Abstracts from the 2014 Annual Meeting of the Society for Northwestern Vertebrate Biology. Pasco, WA.
- Reynolds, B., R. Dupre, and **D. Eccleston**. 2014. National Grid USA installs retrofits and reduces unknown transmission outages from 28 to 2. *Transmission & Distribution World*. September 2014. 66:54-58.
- Rogers, A.M., M.R. Gibson, T. Pockette, J.L. Alexander, and **J.F. Dwyer**. 2014. Scavenging of migrant carcasses in the Sonoran Desert. *Southwestern Naturalist* 59:542-547.
- Watts, B.D., **E.K. Mojica**, J.T. Paul, J.J. Pottie. 2014. Recovery of Breeding Bald Eagles on Aberdeen Proving Ground, Maryland. *Maryland Birdlife* 63:10-16.

2013

- Dwyer, J.F.,** J.C. Bednarz, and R.J. Raitt. 2013. Chihuahuan Raven (*Corvus cryptoleucus*). In A. Poole [Ed.], The birds of North America online. Cornell Laboratory of Ornithology, Ithaca, NY, <http://bna.birds.cornell.edu/bna/species/606>.



- Dwyer, J.F.**, J.D. Fraser, and J.L. Morrison. 2013. Ranges and habitat use of non-breeding Crested Caracaras in Florida. *Journal of Field Ornithology* 84:223-233.
- Dwyer, J.F., R.E. Harness**, and K. Donohue. 2013. Predictive model of avian electrocution risk on overhead power lines. *Conservation Biology* 28:159-168.
- Harness, R.E.** and P.R. Juuvadi. 2013. Bird electrocutions in western Rajasthan, India. *Institute of Electrical and Electronics Engineers*. A4-1 – A4-5.
- Harness, R.E.**, P.R. Juuvadi, and **J.F. Dwyer**. 2013. Avian electrocutions in western Rajasthan, India. *Journal of Raptor Research* 47:352-364.
- Sporer, M.K., **J.F. Dwyer**, B.D. Gerber, **R.E. Harness**, and **A.K. Pandey**. 2013. Marking power lines to reduce avian collisions near the Audubon National Wildlife Refuge, North Dakota. *Wildlife Society Bulletin* 37:796-804.

2012

- Cristol, D.A., **E.K. Mojica**, C.W. Varian-Ramos, and B.D. Watts. 2012. Molted feathers indicate low mercury in Bald Eagles of the Chesapeake Bay, USA. *Ecological Indicators* 18:20-24.
- Dwyer, J.F.**, J.D. Fraser, and J.L. Morrison. 2012. Within-year survival of non-breeding Crested Caracaras. *The Condor* 114:295-301.
- Dwyer, J.F.** and **R.E. Harness**. 2012. Evaluating the effectiveness of avian Interaction mitigating measures and processes. California Energy Commission. Publication number: CEC-PIR-08-026.
- Dwyer, J.F.** and D.L. Leiker. 2012. Managing nesting by Chihuahuan Ravens on H-frame electric transmission structures. *Wildlife Society Bulletin* 36:336-341.
- Dwyer, J.F.**, J.L. Morrison, and J.D. Fraser. 2012. Evaluating survey methods for nesting Crested Caracaras. *Journal of Wildlife Management* 76:857-862.
- Harness, R.E.** 2012. Contributing author to: Walker, D.N. and W.J. Adrian. 2012. Wildlife forensic field manual. Association of Midwest Fish and Game Law Enforcement Officers. Fourth edition.
- Katzner, T., B.W. Smith, T.A. Miller, D. Brandes, J. Cooper, M. Lanzone, D. Brauning, C. Farmer, S. Harding, D. Kramar, C. Koppie, C. Maisonneuve, M. Martell, **E.K. Mojica**, C. Todd, J.A. Tremblay, M. Wheeler, D.F. Brinker, T.E. Chubbs, R. Gubler, and B. Watts 2012. Status, biology, and conservation priorities for North America's eastern Golden Eagle (*Aquila chrysaetos*) population. *The Auk* 129:168-176.
- Morrison, J.L. and **J.F. Dwyer**. 2012. Crested Caracara (*Caracara cheriway*). In A. Poole [Ed.], The birds of North America online. Cornell Laboratory of Ornithology, Ithaca, NY, <http://bna.birds.cornell.edu/bna/species/249>.
- Watts, B.D. and **E.K. Mojica** 2012. Use of satellite transmitters to delineate Bald Eagle communal roosts within the Upper Chesapeake Bay. *Journal of Raptor Research* 46:121-128.



2011

Dwyer, J.F. and J.C. Bednarz. 2011. Harris's Hawk (*Parabuteo unicinctus*). In A. Poole [Ed.], The birds of North America online. Cornell Laboratory of Ornithology, Ithaca, NY, <http://bna.birds.cornell.edu/bna/species/146>.

Dwyer, J.F. and S.G. Cockwell. 2011. Social hierarchy of scavenging raptors on the Falkland Islands (Malvinas). *Journal of Raptor Research* 45:229-235.

Harness, R.E. and **J.F. Dwyer**. 2011. Field guide: visual inspection of avian issues on transmission and distribution structures. Electric Power Research Institute. Palo Alto, CA.

Tupper, S.K., J.L. Cummings, W.F. Andelt, C. Weisner, and **R.E. Harness**. 2011. Evaluation of Sonic Dissuader® to reduce damage by Pileated Woodpeckers. *Wildlife Society Bulletin* 35(1):40-44.

2010

Chen, D., R.C. Hale, B.D. Watts, M.J. La Guardia, E. Harvey, and **E.K. Mojica**. 2010. Species-specific accumulation of polybrominated diphenyl ether flame retardants in birds of prey from the Chesapeake Bay region, USA. *Environmental Pollution* 158:1883-1889.

Dwyer, J.F. 2010. Ecology of non-breeding and breeding Crested Caracaras (*Caracara cheriway*) in Florida. Ph.D. dissertation, Virginia Polytechnic Institute and State University, Blacksburg, VA. <http://scholar.lib.vt.edu/theses/available/etd-05092010-132909/>

Harness, R.E. and S. Gombobaatar. 2010. Perch discouragers and raptor electrocutions: Mongolian perspective. In H.M. Barnes [Ed.], Proceedings of the 2010 Southeastern Utility Pole Conference and Trade Show, Memphis, TN. Mississippi State University.

Lehman, R.N., J.A. Savidge, P.L. Kennedy, and **R.E. Harness**. 2010. Raptor electrocution rates for a utility in the intermountain western United States. *Journal of Wildlife Management* 74:459-470.

Purevdori, A., G. Sundev, and **R.E. Harness**. 2010. (Abstract) The assessment of high risk utility lines and conservation of globally threatened pole-nesting steppe raptors in Mongolia. Page 58 in G. Sundev, R. Watson, M. Curti, R. Yosef, E. Potapov, and M. Gilbert [Eds.], Asian raptors: science and conservation for present and future. The 6th International Conference on Asian Raptors Asian Raptor Research and Conservation Network, Mongolian Ornithological Society, and National University of Mongolia, Ulaanbaatar, Mongolia.

Tupper, S.K., W.F. Andelt, J.L. Cummings, C. Weisner, and **R.E. Harness**. 2010. Polyurea elastomer protects utility pole crossarms from damage by Pileated Woodpeckers. *Journal of Wildlife Management* 74:605-608.

2009

Dwyer, J.F. 2009. Raptor electrocution: a case study on ecological traps, sinks, and additive mortality. *Journal of Natural Resources and Life Science Education* 38:93-98.



- Dwyer, J.F.** and R.W. Mannan. 2009. Return rates of aluminum versus plastic leg bands from electrocuted Harris's Hawks (*Parabuteo unicinctus*). *Journal of Raptor Research* 43:152-154.
- Mojica, E.K.**, B.D. Watts, J.T. Paul, S.T. Voss, J. Pottie. 2009. Factors contributing to Bald Eagle electrocutions and line collisions on Aberdeen Proving Ground, Maryland. *Journal of Raptor Research* 43:57-61.
- Nemeth, N., **J.F. Dwyer**, J.L. Morrison, and J.D. Fraser. 2009. Seroprevalence of West Nile virus and other arboviruses among Crested Caracaras (*Caracara cheriway*) in Florida. *Journal of Wildlife Diseases* 45:817-822.

2008

- Eccleston, D.T.** 2008. Post-fire channel change in two small watersheds in the Colorado Front Range. M.S. Thesis, Colorado State University, Fort Collins, CO.
- Flannery, L. and **J.F. Dwyer**. 2008. Investigating the Crested Caracara. Ridge Rangers Volunteer News, Spring:1-3.
- Harness, R.E.** 2008. Avian issues and solutions. Proceedings of the Northeast Utility Pole Conference, Binghamton, NY. October 22-23, 2008. Oregon State University.
- Harness, R.E.** 2008. Bald eagle (*Haliaeetus leucocephalus*) electrocutions and artificial food sources in Alaska. Pages 383-387 in J. Goodrich-Mahoney, L. Abrahamson, J. Ballard, and S. Tikalsky [Eds.], Proceedings of the Eighth International Symposium on Environmental Concerns in Rights-of-Way Management, Elsevier Science.
- Harness, R.E.** and S. Gombobaatar. 2008. Raptor electrocutions in the Mongolian steppe. *Winging It*, Newsletter of The American Birding Association. 20:1-6.
- Harness, R.E.**, S. Gombobaatar, and R. Yosef. 2008. Mongolia distribution power lines and raptor electrocutions. *Institute of Electrical and Electronics Engineers* 52:1-6.
- Heck, N. and **R.E. Harness**. 2008. Reliability takes wing. *Transmission and Distribution World* March 2008, 94-98.
- Landon, M.**, M. Fink, N. Gibson, and L. Scharf. 2008. [Geospatial environmental and community analysis in Pueblo and El Paso Counties, Colorado](#). Colorado Natural Heritage Program, Colorado State University, Fort Collins, CO.
- Mojica, E.K.**, J.M. Meyers, B.A. Millsap, and K. Haley. 2008. Migration of Florida sub-adult Bald Eagles. *The Wilson Journal of Ornithology* 120:304-310.
- Watts, B.D., B.R. Truitt, F.M. Smith, **E.K. Mojica**, B.J. Paxton, A.L. Wilke, and A.E. Duerr. 2008. Whimbrel tracked with satellite transmitter on migratory flight across North America. *Wader Study Group Bulletin* 115:55-57.

2007

- Dwyer, J.F.** and R.W. Mannan. 2007. Preventing raptor electrocutions in an urban environment. *Journal of Raptor Research* 41:259-267. (Also cover photo.)



Harness, R.E. 2007. Mitigation. Pages. 365-382 in D.M. Bird and K.L. Bildstein [Eds.], Raptor research and management techniques, Hancock House, Surrey, British Columbia, Canada.

Harness, R.E. and G. Kratz. 2007. Bird streamer as the probable cause of a Bald Eagle electrocution. *Colorado Birds – The Colorado Field Ornithologists’ Quarterly* 41:86-90.

Pandey, A., R.E. Harness, and M.K. Schriener. 2007. Bird Strike Indicator field deployment at the Audubon National Wildlife Refuge in North Dakota – interim report. California Energy Commission, Public Interest Energy Research (PIER) Energy-Related Environmental Research Program. CEC-500-2007-076.

Pandey, A., R.E. Harness, and M.K. Schriener. 2007. Bird Strike Indicator field deployment at the Audubon National Wildlife Refuge in North Dakota – final report. California Energy Commission, PIER Energy-Related Environmental Research Program. CEC-500-2007-076.

Rogers, J. and **J.F. Dwyer.** 2007. The Crested Caracara – Florida’s unique falcon. *Florida Wildlife Magazine* September/October:9-11.

2006

Cartron, J.-L., R. Sierra Carona, **R.E. Harness,** R. Rodriguez-Estrella, and G. Huerta. 2006. Bird electrocutions and power poles in northwestern Mexico: an overview. *Raptors Conservation* 7:4-14.

Dwyer, J.F. 2006. Electric shock injuries in a Harris’s Hawk population. *Journal of Raptor Research* 40:193-199.

Harness, R.E. 2006. Contributing author to: Avian Power Line Interaction Committee (APLIC). 2006. Suggested practices for avian protection on power lines: state of the art in 2006. Chapter 5 (Steel/Concrete Poles). Edison Electric Institute, APLIC, and the California Energy Commission. Washington, DC and Sacramento, CA.

Harness, R.E. and L.A. Nielsen. 2006. For the birds – development of statewide avian protection plans for Colorado’s rural electric cooperatives. *IEEE Industry Applications Magazine* 12:38-43.

Mojica, E.K. 2006. Migration, home range, and important uses of Florida sub-adult Bald Eagles. M.S. Thesis, University of Georgia, Athens, GA.

Pederson, J.L., **P.A. Petersen,** and J.L. Dierker. 2006, Gullying and erosion control at archaeological sites in Grand Canyon, Arizona. *Earth Surface Processes and Landforms* 31:507-525.

2005

Cartron, J.E., **R.E. Harness,** R.C. Rogers, and P. Manzano-Fischer. 2005. Impact of concrete power poles on raptors and ravens in northwestern Chihuahua, Mexico. Pages 357-369 in J.E. Cartron, G. Ceballos, and R.S. Felger [Eds.], Biodiversity, ecosystems, and conservation in northern Mexico. Oxford University Press, New York, NY.

Harness, R.E. 2005. Raptor electrocutions – problems and solutions. Proceedings of the Utility Pole Structures Conference and Trade Show, Reno, NV. October 26-27, 2005. Northwest Public Power Association and Western Energy Institute.



- Harness, R.E.** 2005. Raptor nest management on power lines. 2005 Proceedings of the Fifth IASTED International Conference on Power and Energy Systems. The International Association of Science and Technology for Development, Calgary, Alberta, Canada.
- Harness, R.E.** 2005. Woodpecker biology – why do woodpeckers attack utility poles? Proceedings of the Utility Pole Structures Conference and Trade Show, Reno, NV. October 26-27, 2005. Northwest Public Power Association and Western Energy Institute.
- Harness, R.E.** and S. Frazier. 2005. Wildlife control and protection. DSTAR Project 10-3. Distribution Systems Testing Application and Research. Schenectady, NY.
- Harness, R.E.** and L.A. Nielsen. 2005. Development of statewide avian protection plans for Colorado's Rural Electric Cooperatives. Proceedings of the Rural Electric Power Conference. Institute of Electrical and Electronics Engineers, New York, NY.
- Harness, R.E.** and E. Walters. 2005. Knock on wood. *IEEE Industry Applications Magazine* 11:68-73.

2004

- Dwyer, J.F.** 2004. Investigating and mitigating raptor electrocution in an urban environment. M.S. Thesis, University of Arizona, Tucson, AZ.
- Dwyer, J.F.** 2004. Raptor electrocution in Tucson. *Vermilion Flycatcher Newsletter*, April.
- Harness, R.E.** 2004. Bald Eagle (*Haliaeetus leucocephalus*) electrocutions in Alaska and Florida – a comparison of retrofitting measures. Pages 429-435 in R.D. Chancellor and B.-U. Meyburg [Eds.], Raptors worldwide. World Working Group on Birds of Prey, Berlin, and MME-BirdLife Hungary, Budapest.
- Harness, R.E.** 2004. Mitigating woodpecker damage to utility poles. Proceedings of the Rural Electric Power Conference. Institute of Electrical and Electronics Engineers, New York, NY.
- Harness, R.E.** 2004. Nest management. Pages 205-210 in L.S. Nelson and P.J. Pellicane [Eds.], Proceedings of the 8th International Conference on Utility Line Structures, March 29-31, 2004, Fort Collins, CO. EDM International, Inc.; Colorado State University, Fort Collins, CO.
- Harness, R.E.** and J. Certain. 2004. Raptor electrocution mitigation search engine and website. Page 51 in Program and abstracts: California Hawking Club annual meeting. Bakersfield, CA, November. Raptor Research Foundation, Clovis, CA.
- Harness, R.E.** and L.A. Nielsen. 2004. Avian protection plans and national wildlife refuges. Page 30 in Program and abstracts: California Hawking Club annual meeting. Bakersfield, CA, November. Raptor Research Foundation, Clovis, CA.
- Hurmence, J.** and **R.E. Harness.** 2004. Guide to raptor remains: a photographic guide for identifying the remains of selected species of California raptors. EDM International, Inc., Fort Collins, CO.
- Hurmence, J.** and **R.E. Harness.** 2004. Raptor electrocution identification field guide. Page 51 in Program and abstracts: California Hawking Club annual meeting. Bakersfield, CA, November. Raptor Research Foundation, Clovis, CA.



Hurst, N. and **R.E. Harness.** 2004. Corona testing of bird collision mitigation devices. Pages 50-51 in Program and abstracts: California Hawking Club annual meeting. Bakersfield, CA, November. Raptor Research Foundation, Clovis, CA.

Millsap, B., T. Breen, **E. McConnell**, T. Steffer, L. Phillips, N. Douglass, and S. Taylor. 2004. Comparative fecundity and survival of Bald Eagles fledged from suburban and rural natal areas. *Journal of Wildlife Management* 68:1018-1031.

Sundararajan, R., J. Burnham, R. Carlton, E.A. Cherney, G. Couret, K.T. Eldridge, M. Farzaneh, S.D. Frazier, R.S. Gorur, **R.E. Harness**, D. Shaffner, S. Siegel, and J. Varner. 2004. Preventive measures to reduce bird related power outages – Part II: Streamers and contamination. *IEEE Transactions on Power Delivery* 19: 1848-1853.

2003

Harness, R.E. 2003. Bald Eagle electrocutions in Alaska and Florida – a comparison of retrofitting measures. 6th World Conference on Birds of Prey and Owls.

Harness, R.E., S. Milodragovich, and J. Schomburg. 2003. Raptors and power line collisions. *Colorado Birds* 37:118-122.

Harness, R.E., **A. Pandey**, and G. Phillips. 2003. Bird Strike Indicator/Bird Activity Monitor and field assessment of avian fatalities. EPRI Technical Report 1005385, EPRI, Palo Alto, CA.

Harness, R.E. and E.L. Walters. 2003. Mitigating woodpecker damage to utility poles. Proceedings of the Utility Pole Structures Conference and Trade Show, Reno, NV. November 5-6, 2003. Northwest Public Power Association and Western Energy Institute.

Pederson, J.L., **P.A. Petersen**, W.W. Macfarlane, M.F. Gonzales, and K. Kohl. 2003. Mitigation, monitoring, and geomorphology related to gully erosion of cultural sites in Grand Canyon. Report to the U.S. Geological Survey, Grand Canyon Monitoring and Research Center.

Petersen, P.A., 2003. Mitigation, monitoring, and geomorphology related to gully erosion of archaeological sites in Grand Canyon. M.S. Thesis, Utah State University, Logan, UT.

2002

Harness, R.E. 2002. Effectively retrofitting power lines to reduce raptor mortality. Pages 29-45 in R.G. Carlton [Ed.], Avian interactions with utility and communication structures. Proceedings of a workshop held in Charleston, SC. December 2-3, 1999. EPRI, Palo Alto, CA.

Harness, R.E. 2002. Raptors: test to protect. *Transmission and Distribution World*, March, 18-21.

Harness, R.E. 2002. The effectiveness of perch guards to prevent raptor electrocutions. Pages 187-198 in R.G. Carlton [Ed.], Avian interactions with utility and communication structures. Proceedings of a workshop held in Charleston, SC. December 2-3, 1999. EPRI, Palo Alto, CA.



- Harness, R.E.** 2002. (Abstract) The effectiveness of perch guards to prevent raptor electrocutions. Page 267 in R. Yosef, M.L. Miller, and D. Pepler [Eds.], *Raptors in the new millennium*. International Birding & Research Center in Eilat, Israel.
- Landon, M.A.** and **R. E. Harness.** 2002. (Abstract) Using GIS to develop a cost-effective raptor protection plan for electrical utilities. Rural Utilities Service 2002 Electric Engineering Seminar Abstracts. TechAdvantage 2002 Conference and Expo, Dallas, TX.
- Ribble, D.O., A.E. Wurtz, **E.K. McConnell**, J.J. Buegge, and K.C. Welch, Jr. 2002. A comparison of *Peromyscus* home ranges using trapping and radio telemetry data. *Journal of Mammalogy* 83:260-266.
- Rogers, J.A., S. Schwikert, T.F. Breen, and **E.K. McConnell.** 2002. Eastern glass lizard as probable prey of Great Egrets. *Florida Field Naturalist* 30:40.
- Vosloo, H., C. Van Rooyen, and **R.E. Harness.** 2002. Eliminating bird streamers as a cause of faulting on transmission lines. Proceedings of the Rural Electric Power Conference. Institute of Electrical and Electronics Engineers, New York, NY.

2001

- Electric Power Research Institute (EPRI). 2001. Distribution wildlife and pest control. Technical report 1001883. Prepared by **R.E. Harness** and G. Phillips.
- Harness, R.E.** 2001. Emerging issues in raptor electrocutions. *National Utility Equipment News* Spring:30-33.
- Harness, R.E.** 2001. Reduce raptor mortality by retrofitting power lines. *IEEE Industry Applications Magazine* 7:50-55.
- Harness, R.E.** and K.R. Wilson. 2001. Electric-utility structures associated with raptor electrocutions in rural areas. *Wildlife Society Bulletin* 29:612-623.

2000

- Harness, R.E.** 2000. Effectively retrofitting powerlines to reduce raptor mortality. Pages D2-1 – D2-8. Rural electric power conference, Louisville, KY. May 7-9, 2000. Institute of Electrical and Electronics Engineers, Inc., New York, NY.
- Harness, R.E.** 2000. Raptor electrocutions and distribution pole types. North American Wood Pole Coalition, October 1-19.
- Harness, R.E.** 2000. (Review of) Birds and power lines, by M. Ferrer and G.F.E. Janss [Eds.] *Journal of Raptor Research* 34:154-155.
- Harness, R.E.** 2000. Steel distribution poles - environmental implications. Pages 751-755 in R.D. Chancellor and B.-U. Meyburg [Eds.], *Raptors at risk*. World Working Group on Birds of Prey, Berlin, and Hancock House, Blaine, WA.



Harness, R.E. and K.R. Wilson. 2000. Raptor electrocutions and outages - a review of rural utility records spanning 1986-1996. Pages 765-771 in R.D. Chancellor and B.-U. Meyburg [Eds.], *Raptors at risk*. World Working Group on Birds of Prey, Berlin, and Hancock House, Blaine, WA.

1999

Harness, R.E. 1999. Mitigation of animal-caused outages. Section 7 in *Proceedings of the Overhead Line Management and Inspection Workshop*. Engineering Data Management, Fort Collins, CO.

Harness, R.E. 1999. Monk parakeets (*Myiopsitta monachus*) nesting in Colorado. *Journal of the Colorado Field Ornithologists* 33:225

Harness, R.E. 1999. The effectiveness of perch guards to prevent raptor electrocutions. Pages 187-198 in R.G. Carlton [Ed.], *Avian interactions with utility and communication structures*. Proceedings of a workshop held in Charleston, SC. December 2-3, 1999. Avian Power Line Interactions Committee; Edison Electric Institute.

Harness, R.E. and M. Garrett. 1999. Effectiveness of perch guards to prevent raptor electrocutions. *Journal of the Colorado Field Ornithologists* 33:215-220.

1998

Harness, R.E. 1998. Raptor electrocutions and outages – a review of rural utility records spanning 1986-1996. Proceedings of the Transmission and Substation with Distribution Systems Targets Conference on Wildlife and Pest Control in Transmission Systems. Electric Power Research Institute.

Harness, R.E. 1998. Steel distribution poles – environmental implications. Pages D1 1-5, 1998 Rural Electric Power Conference, St. Louis, MO. April 26-28, 1998.

Harness, R.E. 1998. Steel distribution poles – environmental implications. Pages 115-119 in *Proceedings of the International Conference on Utility Line Structures*. Engineering Data Management and Colorado State University, Fort Collins, CO.

Harness, R.E. 1998. Steel distribution pole design – raptor electrocution prevention in summary of items of engineering interest – August 1998. United States Department of Agriculture, Rural Utilities Service, Washington, DC.

Harness, R.E. and K. Wilson. 1998. Raptor electrocutions. *IEEE Industry Applications Magazine* 4:25-31.

Harness, R.E. and K. Wilson. 1998. Review of falconers' electrocution data. *Hawk Chalk* 37:79-81.

1997

Harness, R.E. 1997. Raptor electrocutions caused by rural electric distribution powerlines. M.S. Thesis, Colorado State University, Fort Collins, CO.

Harness, R.E. 1997. Raptors and utility lines. Proceedings of a workshop on the mitigation of woodpecker damage to utility lines sponsored by the Electric Power Research Institute.



Harness, R.E. and K.R. Wilson. 1997. Abstract: Raptor electrocutions in the western United States, mortality from 1985-1995. Raptor Research Foundation 1997 Annual Meeting. Savannah, GA, Oct. 30-Nov. 1, 1997.

1996

Harness, R.E. 1996. Raptor electrocutions on electric utility distribution overhead structures. Page 6 *in* Abstracts of the 2nd International Conference on Raptors, Raptor Research Foundation, University of Urbino, Urbino, Italy.

Harness, R.E. 1996. Raptor electrocutions on electric utility distribution overhead structures. Pages B4 1-7. Proceedings of the 1996 Rural Electric Power Conference, Fort Worth, TX. Institute of Electricity and Electronic Engineers, Inc., NY.

Harness, R.E. 1996. Raptor electrocutions on electric utility overhead structures in summary of items of engineering interest – August 1996. United States Department of Agriculture, Rural Utilities Service, Washington, DC.

1995

Landon, M.A. 1995. Soil and terrain attributes for evaluation of leaching in a Montana farm field. M.S. Thesis, Montana State University, Bozeman, MT.

Landon, M.A., J.S. Jacobsen, and G. Johnson. 1995. Pesticide management for ground water protection. Montana Agricultural Experiment Station Bulletin. Montana State University, Bozeman, MT.

1994

Landon, M.A., J.S. Jacobsen, G.A. Nielsen, and J.P. Wilson. 1994. Soil and terrain attributes for evaluation of field-scale leaching. *Agronomy Abstracts*. Madison, WI.

Wilson, J.P., D.J. Spangrud, **M.A. Landon**, J.S. Jacobsen, and G.A. Nielsen. 1994. Mapping soil attributes for site-specific management of a Montana field. *In* G.E. Meyer and J.A. DeShazer [Eds.], Proceedings of the Symposium on Optics in Agriculture, Forestry, and Biological Processing. International Society for Optical Engineering, 2345:324-335.

1991

Harness, S.D. and **R.E. Harness**. 1991. National Bison Range – Montana's gateway to the past. *Montana West Country*, Summer.

1988

Harness, S.D. and **R.E. Harness**. 1988. Lee Metcalf National Wildlife Refuge. *Montana Outdoors*, May-June:40-41.

