# **Chapter 4. Consultation and Coordination**

## **Preparers and Contributors**

## **ID Team Members**

## Mike Dechter, Team Lead and NEPA Planner (starting 7/2010)

I am the NEPA Coordinator for the Coconino National Forest. I participate in both motorized and nonmotorized recreation on National Forest System lands. I have a Masters degree in economics and policy from Duke University and a Bachelor of Science in Ecology from the University of San Diego. I have worked as a NEPA Coordinator on the Santa Fe National Forest and the San Bernardino National Forest. I have also worked in the private sector as a biologist for an environmental consulting firm.

**Contribution:** Travel management inter-disciplinary team lead, project record, implementation planning, recreation specialist report, environmental justice report, air quality report.

## Jim Beard, Forest Recreation Staff Officer (until 12/2010)

I have a Bachelor of Landscape Architecture degree in Environmental Design from the University of Georgia. My professional experience includes 3 years of seasonal and intermittent work as a temporary landscape architect for the Apache-Sitgreaves and Kaibab National Forests. I worked as district landscape architect and recreation staff officer on the Tongass National Forest for 7 years. I have worked for the Coconino National Forest as forest landscape architect and recreation program manager for the past 21 years.

Contribution: Travel management inter-disciplinary team lead, recreation specialist report.

## Charlotte Minor, Forest Recreation Staff Officer (starting 6/2011)

I have a degree in Landscape Architecture and have worked on the Kaibab National Forest as Recreation Staff and as Landscape Architect for over 15 years.

Contribution: Scenery specialist report.

### Erin Phelps, Writer/Editor (starting 5/2011)

I am the Writer/Editor for the Flagstaff Ranger District on the Coconino National Forest. I have a Bachelor of Arts degree in English/Writing from Eastern Oregon University. Prior to my current position, I worked in wildland fire for the Flagstaff Interagency Hotshot Crew (IHC) as a Senior Crewmember, and as a seasonal firefighter on the Mormon Lake IHC, Pleasant Valley IHC, Kaibab Heli-Rappel Crew and Boise BLM. I have also worked as a freelance journalist and editor in Oregon and Arizona.

**Contribution:** Travel Management Writer/Editor, Wilderness and Special Areas Specialist Report.

### Jennifer Condon, NEPA Planner (until 03/2011)

I have a Bachelor of Science in Soil and Crop Science from Colorado State University. I worked as a soil scientist for 9 years, 7 of those with the Forest Service, and have been serving on interdisciplinary teams employing the NEPA process for 7 years. I have been a NEPA Planner since coming to the Coconino National Forest in May of 2008.

**Contribution:** DEIS writing and editing, review and editing of specialist reports for the DEIS, general project management.

## Cecelia Overby, Forest Wildlife Biologist

I have a Master of Science degree in Forestry (wildlife emphasis) from Northern Arizona University, and a Bachelor of Science degree in Biology from The College of William and Mary. I have been a journey level biologist with the Forest Service since 1995.

Contribution: Wildlife specialist report, biological assessment and evaluation.

## Janie Agyagos, Red Rock RD Wildlife Biologist

I am a wildlife biologist on the Red Rock Ranger District of the Coconino National Forest, where I have worked since 1994. I graduated in 1993 from Arizona State University with a Bachelor's degree in Wildlife and Fisheries Management. My main duties as wildlife biologist include participating on interdisciplinary teams and conducting project effect analyses and consultations for over 50 rare species; inventorying and monitoring special status plant, fish and wildlife species; designing and implementing habitat improvement projects; maintaining and managing area closures for the protection of fish, wildlife and plant species and/or their habitat; and coordinating with multiple agencies in the management of plant, fish, and wildlife species and their habitat.

Contribution: Wildlife specialist report, biological assessment and evaluation.

## Cary Thompson, Peaks RD Wildlife Biologist

I have a Bachelor of Science degree in Biology from Northern Arizona University. My professional experience includes 10 years of seasonal work and 5 years of permanent work as a biological technician. I have been working as a journey level biologist for the Forest Service for 7 years.

Contribution: Wildlife specialist report, biological assessment and evaluation.

## Peter Pilles, Archaeologist

I have a Bachelor's degree from Arizona State University in Anthropology. I have worked as the Coconino National Forest Archaeologist since 1975. I have worked for Museum of Arizona Pueblo Grande Museum, Arizona State Museum, and have served as an adjunct professor at Northern Arizona University as an instructor in archaeological law. Specialty areas include rock art, archaeology of central Arizona, public archaeology, and archaeological interpretation. I have presented over 60 papers and authored 50 publications in these areas.

**Contribution:** Cultural resource specialist report, cultural resource clearance report, tribal consultation.

## Travis Bone, Archaeologist

I have a Master of Arts degree in Archaeology from Northern Arizona University, and a Bachelors of Science, Business Administration degree in Finance from the Northern Arizona University. My professional experience includes 2 years of seasonal work for the Forest Service and a private environmental consulting firm as an archaeological technician. I have been working as a professional series archaeologist for the Forest Service for 7 years.

Contribution: Cultural resource specialist report, cultural resource clearance report.

## Dirk Renner, Forest Fisheries Biologist (10/2007 – 12/2008)

I have a Master of Science degree in Fisheries Science from Oregon State, and a Bachelor of Science degree in Biological Science from the University of California at Santa Barbara. My professional experience includes 10 years of seasonal work for the National Park Service, Forest Service and the Oregon Department of Fish and Wildlife as a biological technician. I have been working as a journey level fisheries biologist for the Forest Service for 6 years.

Contribution: Fisheries specialist report.

## Mike Childs, Forest Fisheries Biologist (starting 10/2009)

I have a Bachelor's degree in Wildlife and Fisheries Management from Arizona State University and a Master's degree in Zoology from Oklahoma State University. I worked for Arizona Game and Fish Department from 1994 to 2007 doing native fish research and fisheries management. I worked for the Fish and Wildlife Service for two years at Willow Beach National Fish Hatchery and Dexter National Fish Hatchery in fisheries genetics. I then spent almost a year at Arizona State University before starting on the Coconino National Forest in October 2009.

**Contribution:** Fisheries specialist report and contributions to the biological assessment and evaluation.

## Debra Crisp, Botanist

I have a Bachelor of Science degree in Biology from Northern Arizona University (1977) and a Master of Science in Forestry from Northern Arizona University (2004). I have approximately 25 years of experience working for the U.S. Forest Service, including 5 years in my current position as a botanist on the Coconino National Forest. Prior to my current position, I worked as a forestry technician, biological technician and a botany trainee. I have been an author or contributing author on numerous Forest Service documents including numerous specialist's reports for NEPA analysis including fuels reduction, range, and recreation projects.

**Contribution:** Botany specialist report, and contributions to the biological assessment and evaluation.

## **Rory Steinke, Forest Soil Scientist**

I have a Bachelor of Science in Soil Science from the University of Wisconsin Stevens Point (1981), and am an ARCPAC Certified Soil Scientist. I presently serve as forest watershed program manager and soil scientist on the Coconino National Forest in Arizona.

I have more than 27 years of experience in soil survey, soil conservation, water rights and watershed management including planning, budgeting, environmental analysis (mainly soil, water, and riparian resources) and writing, implementation and monitoring.

I have worked with the Natural Resource Conservation Service, BLM, U.S. Peace Corps (developed about 70 conservation plans in Honduras), and the Forest Service and have collaborated with outside agencies, tribes and environmental groups.

I serve as the TMR interdisciplinary team member watershed specialist and was responsible for soil and water resource and fugitive dust analysis in the affected environment and environmental consequences portion of the DEIS.

Contribution: Water and soils specialist report.

## Carl Beyerhelm, GIS Specialist

I earned a Bachelor of Science degree in Wildlife Biology from Iowa State University in 1977 and a Master of Science in Forestry from the University of Minnesota in 1979. I've worked in Wyoming, South Dakota, New Mexico, and Arizona for the Bureau of Land Management, Custer State Park, U.S. Fish and Wildlife Service, and the U.S. Forest Service, where I've worked in timber sale preparation, forest inventory, log scaling, contract and sale administration, silviculture, land acquisition, and GIS. I've been performing GIS data development and analyses on the Coconino National Forest since 1998.

Contribution: Data management and analysis. Map production.

## List of Agencies, Organizations and Persons That Were Informed of or Contributed to the FEIS

This final environmental impact statement has been distributed to individuals who specifically requested a copy of the document. In addition, copies have been sent to the following Federal agencies, federally recognized tribes, State and local governments, and organizations representing a wide range of views regarding travel management.

### **Tribes and Tribal Entities**

Ft. McDowell Yavapai Nation The Hopi Tribe, Cultural Preservation Office The Hopi Tribe, Chairman The Havasupai Tribe The Hualapai Tribe The San Carlos Apache Tribe San Juan Southern Paiute Tribe The Tonto Apache Tribe The White Mountain Apache Tribe The Yavapai-Apache Nation The Yavapai-Prescott Tribe The Pueblo of Zuni Acoma Pueblo The Navajo Nation, President The Navajo Nation, Cameron Chapter The Navajo Nation, Coalmine Canyon Chapter The Navajo Nation, Dilcon Chapter The Navajo Nation, Gap-Bodaway Chapter The Navajo Nation, Leupp Chapter The Navajo Nation, Tolani Lake Chapter The Navajo Nation, Tuba City Chapter Dine' Medicine Men's Association **BIA**, Western Region BIA, Navajo Region Arizona State Historic Preservation Office

## **Federal and State Agencies**

Contact	Agency
Ron Sieg	Arizona Game and Fish Department
Larry Phoenix	Arizona Game and Fish Department
Andi Rogers	Arizona Game and Fish Department
Larry Voyles	Arizona Game and Fish Department
Shaula Hedwall	Fish and Wildlife Service
Steven L. Spangle	Fish and Wildlife Service
Arizona State Parks	Robert Baldwin
Diane Chung	National Park Service
Jody Latmier	Arizona State Lands Department
Edward Dietrich	Arizona State Lands Department
Mike Lyles	Slide Rock State Park
Janet Fisher	Arizona State Library
Kathleen Goforth	Environmental Protection Agency
Mandan Singh	State of Arizona Department of Mines and Minerals

### **Counties and Municipalities**

City of Cottonwood
Coconino County Sheriff's Office
Coconino City Parks and Recreation
Coconino County Board of Supervisors
Coconino County Roger's Lake Stakeholder Group
Flagstaff Public Library

**Organizations and Businesses** 

**Doney Park Homeowners Association Timberline Homeowners Association** Payson Tea Party Arizona Snowbowl Center for the New Age Earth Wisdom Jeep Tours High Country Informant Manterola Sheep Co. Inc Michelbach Livestock Inc Saddlerock Homeowners Association The Nature Conservancy Grand Canyons Wildlands Council Wild Earth Guardians Museum of Northern Arizona Arizona Wilderness Coalition Grand Canyon Stage Line **Pink Jeep Tours** Flagstaff Nordic Center Medicine Valley Residents Arizona Trail Riders

Gila County Board of Supervisors Navajo County Board of Supervisors City of Sedona Highlands Fire District Yavapai County Board of Supervisors Flagstaff City Council

Diablo Trust Friends of Walnut Canyon Center for Biological Diversity Little Horse Ranch **Cinder Hills Rough Riders** Verde Valley 4 Wheelers High Desert Outfitter Jeep Arizona Sedona Airport Northern Arizona Audubon Puma Press Sedona Red Rock News The Payson Roundup Bar T Bar Ranch EPG. Inc. Coconino Trail Riders Cornville Community Association Flying M Ranch Transwestern Pipeline Co. Arizona Wildlife Federation

#### **Organizations and Businesses**

Blue Ribbon Coalition Rock Stars Motorcycle Club Sierra Club, Grand Canyon Chapter White Mountain Conservation League Wilderness Society Public Employees for Environmental Responsibility Ecological Restoration Institute Arizona Public Supply Verde Valley News Sedona Escape Flagstaff Biking Organization Capital Trail Vehicle Association Prescott Open Trails Association Tonto Recreation Alliance Winter Wildlands Alliance Moore, Smith, Buxton & Turcke Arizona Daily Sun Northern Light Balloon Expeditions Sedona Jeep School Northern Arizona University Flagstaff Ranch Golf Club Sedona Magazine

## Individuals

Due to the great number of individuals involved in this project. The full list of individuals is included in the project record as a scoping mailing list, response to inquiries, and in the Response to Comments.

## References

- Abrahams, M. and M. Kattenfeld. 1997. The role of turbidity as a constraint on predator-prey interactions in aquatic environments. Behavioral Ecology and Sociobiology 40:169-174.
- Adams, John C., and Stephen F. McCool. 2009. Finite Recreation Opportunities: The Forest Service, the Bureau of Land Management, and off-road vehicle management. Natural Resources Journal 49 (1): 45-114.
- Adams, Kenneth; Harrop, Brenda; James, Michele, Marks, Jane. 2011. 2010 Annual Report: Baseline Monitoring Data and Analysis. Northern Arizona University, Marks Lab of Aquatic Ecology Department of Biological Sciences. 35 p.
- ADEQ (Arizona Department of Environmental Quality). 2003. Regional Haze State Implementation Plan for the State of Arizona. State of Arizona, Air Department of Environmental Quality. Phoenix, AZ: 146 p.
- ADEQ. 2009. 2009 Air Quality Annual Report. State of Arizona, Air Quality Assessment Section. Phoenix, AZ: 124 p.
- Ahlstrom, Richard V.N., Malcolm Adair, R. Thomas Euler, and Robert C. Euler. 1992. Pot hunting in Central Arizona: The Perry Mesa Archeological Site Vandalism Study. USDI.
   Bureau of Land Management and USDA Forest Service, Southwest Region, Cultural Resources Management Report No. 13, Albuquerque.
- AHRRC (Arizona Hospitality Research and Resource Center, and Bureau of Economic and Business Research). 1990. Recreational forest use survey: Flagstaff residents. USDA Forest Service. Coconino National Forest. 37 p.
- Albritton, Rachel, and Taylor V. Stein. 2007. Examining differences between OHV riders: A spatial approach to understanding tolerance, [online]. Online: <u>http://www.safnet.org/fp/documents/ohv\_riders\_07.pdf [2009</u>, August 12].
- Anderson, David E; Rongstad, Orrin J.; and Myrron, William R. 1990. Home-range changes in raptors exposed to increased human activity levels in Southeastern Colorado. Wildlife Society Bulletin: Vol. 18(2):134-142.
- Arizona Game and Fish Department. 2005. Hunting and Shooting Sports Recruitment and Retention Team: Final Report. State of Arizona. Unpublished report. p. 16.
- Arizona Game and Fish Department. 2010. Hunt Arizona: Survey, harvest and Hunt Data for Big and Small Game, 2010 Edition. Online: <u>http://www.azgfd.gov/pdfs/h\_f/HuntAZ2010.pdf</u>
- Arizona State Parks. 2008. Statewide Comprehensive Outdoor Recreation Plan (SCORP). Arizona State Parks. Phoenix, AZ. Online: <u>http://azstateparks.com/publications/downloads/SCORP\_2008\_Final.pdf [2011, 05 12].</u>
- Anderson, P.G. 1996. Sediment generation from forestry operations and associated effects on aquatic ecosystems. Proceedings of the Forest-Fish Conference: Land Management Practices Affecting Aquatic Ecosystems, Calgary, Alberta.
- Argent, D.G. and P.A. Flebbe. 1999. Fine sediment effects on brook trout eggs in laboratory streams. Fisheries Research 39:253-262.
- Bancroft, D.C. 1990. Use of wildlife enforcement decoys for wildlife enforcement in northern Arizona: Preliminary results in, Krausman, P.R. and N.S. Smith, eds. Proceedings of

Managing Wildlife in the Southwest. Tucson, AZ. Oct. 1990. Univ. of Arizona, Tucson. 262 p.

- Barrett, J.C., G.D. Grossman, and J. Rosenfeld. 1992. Turbidity-induced changes in reactive distance of rainbow trout. Transactions of the American Fisheries Society 121:437-443.
- Bennett, A.F. 1991. Roads, roadsides and wildlife conservation: a review. *In:* Saunders, D.A.;
  Hobbs, R.J., eds. Nature conservation 2: the role of corridors. Victoria, Australia: Surrey Beatty and Sons: 99-118 *in* Gucinski, H., M.J. Furniss, R.R. Ziemer and M.H. Brookes [eds]. 2000. Forest Roads: A Synthesis of Scientific Information. Gen. Tech. Rep. PNW-GTR-509. Portland, OR; U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 117 p.
- Berry, K. H. 1980. The effects of four-wheeled vehicles on biological resources. Pages 231-233 in R. L. Andrews and P. F. Nowak, editors. Off-road vehicle use: a management challenge. Conference Proceedings 16-18 March 1980, Ann Arbor, Michigan.
- Berwick, S. H. 1968. Observations on the decline of the Rock Creek, Montana, population of bighorn sheep. *In*: Canfield, J. E., L. J. Lyon, J. M. Hillis, and M. J. Thompson. 1999. Ungulates. Pages 6.1-6.25 in G. Joslin and H. Youmans, coordinators. Effects of recreation on Rocky Mountain wildlife: A Review for Montana. Committee on Effects of Recreation on Wildlife, Montana Chapter of the Wildlife Society. 307 p.
- Bisson, P.A. and R.E. Bilby. 1982. Avoidance of suspended sediment by juvenile coho salmon. North American Journal of Fisheries Management 4:371-374.
- Bondello, M.S. 1976. The effects of high-intensity motorcycle sounds on the acoustical sensitivity of the desert iguana *Dipsosaurus dorsalis*. *In:* Bury, R.B. 1980.What we know and do not know about off-road vehicles impacts on wildlife 110-122 in R.N.L. Andrews and P. Nowak eds. Off-road vehicle use: A management challenge. Conf. Proc., U.S. Dep. Inter., Off. E. Qual., Washington, D.C.
- Boren, J.C., T. Criner, D.M. Engle, M.W. Palmer, and R.E. Masters. 1999. Land use change effects on breeding bird community composition. Journal of Range Management. 52:420-430.
- Bouchard, J., A.T. Ford, F.E. Eigenbrod, and L.Fahrig. 2009. Behavioral responses of northern leopard frogs (*Rana pipiens*) to roads and traffic: Implications for population persistence. Ecology and Society 14 (2): 23.
- Bradley, B.A.; Blumenthal, D.M.; Wilcove, D.S.; Ziska, L.H. 2010. Predicting plant invasions in an era of global change. Trends in Ecology and Evolution. Vol 25: 310-318.
- Braunack, M.V. and Williams, B.G. 1993. The effect of initial soil water content and vegetative cover on surface soil disturbance by tracked vehicles. Journal of Terramechanics: 30, 299–311.
- Brothers, Timothy S. and Arthur Springarn. 1992. Forest Fragmentation and Alien Plant Invasion of Central Indiana Old-Growth Forests. Conservation Biology. 6(1): 91-100.
- Brown, T. L., Decker, D. J., Siemer, W. F., & Enck, J. W. 2000. Trends in hunting participation and implications for management of game species. *In*: W. C. Gartner & D. W. Lime (eds.), Trends in outdoor recreation, leisure and tourism (pp. 145–154). New York, NY: CAB International.

- Bueler, D.A., T.J. Mersmann, J.D. Fraser, and J.K.D. Seegar. 1991. Effects of human activity on Bald Eagle distribution on the northern Chesapeake Bay. Journal of Wildlife Management 55:282-290.
- Burbridge, William R. and Neff, Don J. 1976. Coconino National Forest Arizona Game and Fish Department Cooperative Roads – Wildlife Study. Unpublished report. Available at the Coconino National Forest Supervisors Office. pp. 44-57.
- Bury R.B. 1978. Desert tortoises and off-road vehicles: Do they mix? Proc. Desert Tortoise Council 1978:126 (Abst).
- Bury, R.B. 1980.What we know and do not know about off-road vehicles impacts on wildlife 110-122 in R.N.L. Andrews and P. Nowak eds. Off-road vehicle use: A management challenge. Conf. Proc., U.S. Dep. Inter., Off. E. Qual., Washington, D.C. in Boyle, S.A. and F.B. Samson. Effects of Nonconsumptive Recreation on Wildlife: A review. Wildl. Soc. Bull. 13(2) 1985 pp. 110-116.
- Bury R.B., R.A. Luckenbach, and S.D. Busack. 1977. The effects of off-road vehicles on vertebrates in the California Desert. U.S. Fish and Wildl. Serv. Spec, Sci. Rep. 8. 32 p.
- Bury, Richard L., and Edgar R. Fillmore. 1974. Design of motorcycle areas near campgrounds— Effects on riders and non riders. College Station, Texas, Department of Recreation and Parks, Texas A & M University, Technical Report, 72 p.
- Busack, S. D. and R. B. Bury. 1974. Some effects of off-road vehicles and sheep grazing on lizard populations in the Mojave Desert. Biol. Conservation. 6(3):179–183.
- Canfield, J.E., L.J. Lyon, J.M. Hillis, and M.J. Thompson. 1999. Ungulates. Pages 6.1-6.25 in G. Joslin and H. Youmans, coordinators. Effects of recreation on Rocky Mountain wildlife: A Review for Montana. Committee on Effects of Recreation on Wildlife, Montana Chapter of the Wildlife Society. 307 p.
- Chabot, D. 1991. The use of heart rate telemetry in assessing metabolic cost of disturbance. Transactions of the North American Wildlife and Natural Resources Conference 56:256-263.
- Coconino Trail Riders. Comments on Coconino National Forest Travel Management Proposed Action. September 7, 2007. 16 p.
- Cole, David. 1995. Disturbance of natural vegetation by camping: Experimental applications of low-level stress. Environmental Mgmt. Vol. 19(3): 405-416.
- Cole, David N., and Peter B. Landres. 1996. Threats to wilderness ecosystems: Impacts and research needs. Ecological Applications, 6(1), pp. 168-184.
- Cole, D.N. and C.A. Monz. 2004. Impacts of camping on vegetation: response and recovery following acute and chronic disturbance. Environmental Management 29: in press.
- Cole, D.N. and C.A. Monz. 2004a. Spatial patterns of recreation impact on experimental campsites. Journal of Environmental Management 70: 73-84.

- Collins, Scott L., Joseph E. Fargione, Chelsea L. Crenshaw, Etsuko Nonaka, James R. Elliot, Yang Xia, and William T. Pockman, 2010. Rapid plant community responses during summer monsoon to nighttime warming in a northern Chihuahuan Desert grassland. Journal of Arid Environments. Vol. 74: 611-617.
- Cordell, H. Ken. 2008. The latest trends in nature-based outdoor recreation. Forest History Today. Spring 2008.
- Corman, T., C. Wise-Gervais. 2005. Arizona Breeding Bird Atlas. University of New Mexico Press. Albuquerque, NM. 636 p.
- Craig, Joel, Thomas Cahill and Ono Duane. 2010. South County Phase 2 Particulate Study, San Luis Obispo County Air Pollution Control District. San Luis Obispo County Air Pollution Control District. Available online at: <u>http://www.slocleanair.org/pdf/PM2-</u><u>final\_report.pdf</u>. 108 p.
- Crimmins, Tom. 1999. Colorado off-highway vehicle user survey; Summary of results. State of Colorado. Colorado State Parks OHV Program. 1-10 pp.
- Crisp, Debra. 1996. Monitoring of *Penstemon clutei* A. *Nels* on Tornado Salvage. Pages 243-246. *In*: Maschinski, J.H. David Hammond and L. Holter (Eds.) Southwestern Rare and Endangered Plants: Proceedings of the Second Conference. Flagstaff, AZ. Proceedings RMRS-GTR-283. 328 p.
- Crisp, Debra. 2005. *Hedeoma diffusum* monitoring plots. Unpublished report on file at the Coconino National Forest Supervisor's Office, Flagstaff, AZ. 7 p.
- Daquila, Catherine. 2008. Coconino Looted Database: Initial Efforts to Analyze Looting and Vandalism Using GIS. Ms, Coconino National Forest Supervisor's Office, Flagstaff.
- Dechter, Michael. 2011. Meeting notes on motorized big game retrieval discussion, January 27, 2011. Unpublished meeting notes available in the Coconino National Forest Travel Management EIS project file.
- Delaney, D.K., T.G. Grubb, P. Beier, L.L. Pater, and M.H. Reiser. 1999. Effects of helicopter noise on Mexican Spotted Owls. Journal of Wildlife Management 63:60-76.
- Delaney, D.K., T.G. Grubb. 2003. Effects of off-highway vehicles on northern spotted owls: 2002 Results. A report to the State of California Department of Parks and Recreation, Off-Highway Motor Vehicle Recreation Division Contract Number No. 4391Z9-0-0055.
- DeMaynadier P.G., and M.L. Hunter 2000. Road effects on amphibian movements in a forested landscape. Department of Wildlife Ecology Nutting Hall, Univ. Maine, Orono, Maine. Natural Areas Journal 20:56-65.
- De Steiguer, J.E.; Spangler, Tom; Jensen, Sara; MacDonald, Ian; Owens, J.R.; Fisher, Denise; Carveth, Cori; Michael, Julie. 2005. Socio-economic assessment for the Coconino National Forest. University of Arizona, School of Natural Resources: Prepared for Coconino National Forest, Southwestern Region. 156 p.
- Driscoll, J.T., K.V. Jacobson, G.L. Beatty, J.S. Canaca, and J.G. Koloszar. 2006. Conservation assessment and strategy for the bald eagle in Arizona. Nongame and Endangered Wildlife Program Technical Report 173. Arizona Game and Fish Department, Phoenix, Arizona.

271

- Duda, Mark D., Steven J. Bissell, Kira C. Young. 1995. Factors related to hunting and fishing participation in the United States - Phase V: Final Report. Responsive Management. Western Association of Fish and Wildlife Agencies. pp. 1-46.
- Edge, W.D. 1982. Distribution, habitat use and movements of elk in relation to roads and human disturbance in western Montana. *In*: Canfield, J.E., L.J. Lyon, J.M. Hillis, and M.J. Thompson. 1999. Ungulates. Pages 6.1-6.25 in G. Joslin and H. Youmans, coordinators. Effects of recreation on Rocky Mountain wildlife: A review for Montana. Committee on Effects of Recreation on Wildlife, Montana Chapter of the Wildlife Society. 307 p.
- Edge, W.D. and C.L. Marcum. 1985a. Effects of logging activities on home-range fidelity of elk. The Journal of Wildlife Management, Vol. 49 (3), pp.741-744.
- Edge, W.D., and C.L. Marcum. 1985b. Movements of elk in relation to logging disturbances. *In:* Canfield, J.E., L.J. Lyon, J.M. Hillis, and M.J. Thompson. 1999. Ungulates. Pages 6.1-6.25 in G. Joslin and H. Youmans, coordinators. Effects of recreation on Rocky Mountain wildlife: A review for Montana. Committee on Effects of Recreation on Wildlife, Montana Chapter of the Wildlife Society. 307 p.
- Edge, W. D., C. L. Marcum. 1991. Topography ameliorates the effects of roads and human disturbance on elk. In Christensen A.G., Lyon L.J., Lonner T.N., Comps. Proc. Elk Vulnerability Symp.; 1991 Apr 10; Montana State Univ., Bozeman. pp. 132-137.
- Edwards, P. J. and G. L. Evans. 2004. Giving greater consideration to cross-drainage discharge from forest roads. Riparian Ecosystems and Buffers: Multi-scale structure, function, and management - AWRA Summer Specialty Conference, Olympic Valley, California, AWRA.
- Elliott, W. R. 2011. Protecting caves and cave life. Prepreint for Culver, D. C. and White, W. B. (eds), Encyclopedia of caves, 2nd ed. Revised January 6, 2011. Elsevier/Academic Press, pp. 1-16.
- English, Donald, B.K. 2009. FY2008 national visitation update report. E-mail, dated July 30, 2009.
- Fahrig, L. J. H. Pedlar, S. E. Pope, P. D. Taylor and J. F. Wegner. 1995. Effect of road traffic on amphibian density. Biological Conservation 73:177-182.
- Fausch, K.D., Rieman, B.E., Young, M.K., and J.B. Dunham. 2006. Strategies for conserving native salmonid populations at risk from nonnative fish invasions: tradeoffs in using barriers to upstream movement. General Technical Report RMRS-GTR-174. Fort Collins, CO: USDA Forest Service, Rocky Mountain Research Station. 44 p.
- Ffolliatt, P. F., and G. J. Gottfried. 2010. Magnitudes and timing of seasonal snowpack water equivalents in Arizona: A preliminary study of the possible effects of recent climate change. Journal of the Arizona-Nevada Academy of Science. Vol. 42(1):1-4.
- Fillmore, Edgar R. and Richard L. Bury. 1978. Motorcycle riding areas reduce conflicts with campers. Southern Journal of Applied Forestry. 2(2): 44-48(5)

- Flood, Joseph P. 2005. Just don't tell me no: Managing OHV recreational use on national forests. *In*: Peden, John G.; Schuster, Rudy M., comps., eds. Proceedings of the 2005 northeastern recreation research symposium; 2005 April 10-12; Bolton Landing, NY. Gen. Tech. Rep. NE-341. Newtown Square, PA: USDA Forest Service, Northeastern Research Station: pp. 130-134.
- Flory, S. Luke; Clay, Keith. 2009. Effects of roads and forest successional age on experimental plant invasions. Biological Conservation. 142: 2531-2537.
- Foltz, R. B. 1995. Sediment reduction from the use of lowered tire pressures. SAE 1994 Transactions, Journal of Commercial Vehicles, Vol. 2, No. 103, 1995, pp. 376-381.
- Foltz, R.B. 2006. Erosion from all terrain vehicle (ATV) trails on national forest lands. American Society of Agricultural and Biological Engineers, paper number 068012.
- Forman, R.T. and L.E. Alexander. 1998. Roads and their major ecological effects. Annual Review of Ecology and Systematics 29:207-231.
- Fowler, James F., Carolyn Hull Sieg, Brett G. Dickson and Victoria Saab. 2008. Exotic Plant Diversity: Influence of Roads and Prescribed fire in Arizona Ponderosa Pine Forests. Rangeland Ecology and Management. 61(3). pp. 284-293.
- Francis Julie E.1978. The effect of casual surface collection on variation in chipped stone artifacts. *In* An analytical approach to cultural resource management: The Little Colorado Planning Unit. Edited by F. Plog. Arizona State University, Anthropological Papers, 13: 114-132.
- Freddy, D. J. 1977. Deer-elk investigations: snowmobile harassment of mule deer on cold winter ranges. *In*: Canfield, J.E., L.J. Lyon, J.M. Hillis, and M.J. Thompson. 1999. Ungulates. Pages 6.1-6.25 in G. Joslin and H. Youmans, coordinators. Effects of recreation on Rocky Mountain wildlife: A Review for Montana. Committee on Effects of Recreation on Wildlife, Montana Chapter of The Wildlife Society. 307 p.
- Frost, Jeffrey E.; McCool, Stephen F. 1988. Can visitor regulations enhance recreational experiences? Environmental Management 12(1): 5-9.
- Fule, Pete Z., Judy D. Springer, David G. Huffman, and Wallace W. Covington. 2000. Response of a rare endemic, *Penstemon clutei*, to burning and reduced belowground competition. Pages 139-152. *In:* Maschinski, J. and L. Holter (Eds.) Southwestern Rare and Endangered Plants: Proceedings of the Third Conference. Flagstaff, AZ. Proceedings RMRS-P-23. 248 p.
- Furniss, Michael J.; Staab, Brian P.; Hazelhurst, Sherry; Clifton, Cathrine F.; Roby, Kenneth B.; Ilhadrt, Bonnie L.; Larry, Elizabeth B.; Todd, Albert H.; Reid, Leslie M.; Hines, Sarah J.; Bennett, Karen A.; Luce, Charles H.; Edwards, Pamela J. 2010. Water, climate change, and forests: watershed stewardship for a changing climate. Gen. Tech. Rep. PNW-GTR-812. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 75 p.
- Ganey, Joseph L., Voijta, Scott C. 2010. Coarse woody debris assay in northern Arizona mixedconifer and ponderosa pine forests. Res. Pap. RS-RP-80WWW. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 22 pp.

- Geist, V. 1978. Behavior. Pages 283-296 in J. L. Schmidt and D. L. Gilbert, editors. Big game of North America: ecology and management. Stackpole Books, Harrisburg, Pennsylvania. 494 p.
- Geist V., 1985. On Pleistocene bighorn sheep: Some problems of adaptation, and relevance to today's American megafauna. Wildlife Society Bulletin, Vol.13, pp. 351-359.
- Gelbard, Jonathan L. and Jayne Belnap. 2003. Roads as Conduits for Exotic Plant Invasions in a Semiarid Landscape. Conservation Biology. Vol. 17 (3) 420-432.
- Gelbard, Jonathan L. and Susan Harrison. 2003. Roadless Habitats as Refuges for Native Grasslands; Interactions with, Soil, Aspect and Grazing. Ecological Applications. Vol. 13(2): 404-415.
- Gibbons D.R. and E.O. Salo, 1973. An annotated bibliography of the effects of logging on fish of the Western United States and Canada. USDA. Forest Service, Gen. Tech. Rep. PWA-10. 145 p.
- Gilpin M. E. 1987. Metapopulation structure and population vulnerability. *In*: Soule, M.E. [ed] Viable Populations for Conservation. 1997. pp 122-139, Cambridge University Press, Cambridge.
- Glinski, R.L. 1998. The Raptors of Arizona. The University of Arizona Press, Tucson, AZ. pp. 105-108.
- Gonzalez-Caban, A., P. Wohlgemuth, J. B. Loomis, and D.R. Weise. 2006. Costs and benefits of reducing sediment production from wildfires through prescribed burning: the Kinneloa fire case study. GTR PSW-GTR-208. USDA Forest Service Pacific Southwest Experiment Station, Albany, California.
- Goodwin, Greg. 1979. Observations on Penstemon clutei on the Coconino National Forest. Unpublished report on file at Supervisor's Office, Coconino National Forest. 7 p.
- Goossens, D., Buck, B., 2009. Dust emission by off-road driving: experiments on 17 arid soil types, Nevada, USA. Geomorphology 107: 118-138.
- Gradall, K.S. and W.A. Swenson. 1982. Responses of brook trout and creek chubs to turbidity. Transactions of the American Fisheries Society 111: 392-395.
- Grahame T.J, and R.B. Schlesinger. 2010. Cardiovascular health and particulate vehicular emissions: a critical evaluation of the evidence. Air Quality Atmosphere & Health. 3(1): 3-27.
- Gratson, Michael W. and Craig L. Whitman. 2000. Road closures and density and success of elk hunters in Idaho. *Wildlife Society Bulletin*, Vol. 28(2): 302-310.
- Greacen, E.L. and Sands, R. 1980. Compaction of forest soils: a review. Aust. Soil: 18. pp. 163-189
- Grubb, T.G., W.W. Bowerman, J.P. Geisy and G.A. Dawson. 1992. Responses of breeding bald eagles to human activities in north central Michigan. Canadian Field Naturalist 106:443-453.
- Grubb, T.G., L.L. Pater, and D.K. Delaney.1998. Logging truck noise near nesting northern goshawks. USDA Forest Service RMRS-RN-3. 2 p.

- Gruell, George E.; Garvice, Roby; Becker, Kurt; Johnson, Randy. 1976. Gros Ventre Cooperative Elk Study: June 1975-November 1975. Bridger-Teton National Forest and Wyoming Game and Fish Department. 22 p.
- Gucinski, H., M.J. Furniss, R.R. Ziemer, and M.H. Brookes. 2001. Forest roads: a synthesis of scientific information. General Technical Report PNW-GTR-509. Portland, OR. U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 103 p.
- Hallo, Jeffrey C., Robert E. Manning, and Patricia A. Stokowski. 2009. Understanding and managing the off-road vehicle experience: indicators of quality. Managing Leisure, Vol. 14(3): 195-209 p.
- Hamann, B., H. Johnston, J. Gobielle, M. Hillis, S. Johnson, L. Kelly, P. McClelland. 1999. Birds. Pages 3.1-3.34 in G. Joslin and H. Youmans, coordinators. The effects of recreation on Rocky Mountain Wildlife: a review for Montana. Committee on Effects of Recreation on Wildlife. Montana Chapter of the Wildlife Society. 307 p.
- Hammitt, William E., Cary D. McDonald, Michael E. Patterson. 1990. Determinants of multiple satisfaction for deer hunting. *Wildlife Society Bulletin*, Vol. 18(3): 331-337.
- Harvey. 1980. *In:* Hickman, G.R., Dixon, B.G., Corn, J. 1999. Small mammals. Pages 4.1-4.16 in G. Joslin and H. Youmans, coordinators. The effects of recreation on Rocky Mountain Wildlife: a review for Montana. Committee on Effects of Recreation on Wildlife. Montana Chapter of the Wildlife Society. 307 p.
- Headwaters Economics. 2011. A Profile of Land Use, County Region: Coconino County, AZ, Yavapai County, AZ. Produced by Economic Profile System-Human Dimensions Toolkit, 08 Aug 2011.
- Hellmann J.J.; Byers J.E.; Bierwagen B,G.; Dukes J.S. 2008. Five potential consequences of climate change for invasive species. Conserv. Biol. 22: 534-43.
- Hill, J.H., and J.D. Smith. 1984. Bats: A Natural History. British Museum (Natural History).
- Holbrook, H.T. and M.R. Vaughan. 1985. Influence of roads on turkey mortality. Journal of Wildlife Management 49:611-614.
- Holden, Emily. 2011. Arizona hunting applications tumble. *AZCentral.com*, Online: <u>http://www.azcentral.com/news/election/azelections/articles/2011/08/06/20110806arizona</u> <u>-hunting-applications-down.html#ixz21UYTQDyaD</u> [Accessed 8/6/2011].
- Holmes, T.L., R. Knight, L. Stegall, G. R. Craig. 1993. Response of Wintering Raptors to Human Disturbance. Wildlife Society Bulletin, Vol. 21 (4) pp. 461-468.
- Hoffmeister, D.F. 1986. Mammals of Arizona. University of Arizona Press, Tucson, AZ.
- Hunt, Len M.; Lemelin, R. Harvey; Karen C. Saunders, 2009. Managing forest road access on public lands: A conceptual model of conflict. *Society & Natural Resources*. Vol. 22(2): 128-142.
- Hutchins, M., V. Geist. 1987.Behavioral considerations in the management of mountain-dwelling ungulates. Mountain Research and Development, Vol. 7(2): 135-144.
- Iverson, Richard M.; Hinckley, Bern S.; Webb, Robert M.; Halet, Bernard. 1981. Physical effects of vehicular disturbances on arid landscapes. *Science*. Vol. 212(22): 915-916.

- Jackson, W.L. and R.L Beschta. 1984. Influences of increased sand delivery on the morphology of sand and gravel channels. Water Resources Bulletin 20:527-533.
- Jakus, Paul M.; Keith, John E.; Liu, Lu. 2008. Economic impacts of land use restrictions on OHV recreation in Utah: A report for the Utah Governor's Public Lands Policy Coordination Office. Utah State University, Dept. of Applied Economics. 56 pp. Online: <u>http://www.governor.utah.gov/publiclands/PLPCOStudies/OHV\_EIC\_2008.pdf</u> [2009, November 17].
- Johnson, M. J., C. Calvo, J. Holmes and M. James. 2006. Common Black-Hawk and Yellowbilled Cuckoo distribution and abundance in the upper reaches of Fossil Creek, AZ, 2005. 26 pp. Online: <u>http://www.aps.com/images/CI/COBHYBCU2005Rpt030106.pdf</u> [Accessed June 26, 2011].
- Jones, C. and B.K. Barsch. 1993. In: Miller, R. The need for diversity and acceptable risks. Pp.18-25 in W. Covington, P.K. Wagner [eds] 1998. Conference on Adaptive Ecosystem Restoration and Management: Restoration of Cordilleran Conifer Landscapes of North America. 91 p.
- Jones, J.A. 2000. Hydrologic processes and peak discharge response to forest removal, regrowth, and roads in 10 small experimental basins, western Cascades, Oregon. Water Resources Research 36(9):2621-2642.
- Jones, K.B., A.C. Neale, M.S. Nash, K.H. Ritters, J.D. Wickham, R.V. O'Neill and R.D. Van Remortel. 2000. Landscape correlates of breeding bird richness across the United States mid-Atlantic region. Environmental Monitoring and Assessment 63: 159-174.
- Jorgensen, P.D. 1974. Vehicle use at desert bighorn watering area. Desert Bighorn Council Transactions. Moab, Utah.
- Kahl, J.R. 1972. Osprey management on the Lassen National Forest. Pages 7-13 in J. Yoakum, editor. California-Nevada Wildlife. Transactions of the Annual Meeting for the Western Section of The Wildlife Society and the California-Nevada Chapter of the American Fisheries Society, 28-29 January 1972, San Luis Obispo, California.
- Keim, R.F., A.E. Skaugest, and D.S. Bateman. 2002. Physical aquatic habitat II. Pools and cover affected by large woody debris in three western Oregon streams. North American Journal of Fisheries Management 22:151-164.
- King and Tennyson, 1984. Alteration of streamflow characteristics following road construction in North Central Idaho. Water Resources Research, Vol. 20(8): 1159-1163.
- Knight, R.L. and D.N. Cole. 1991. Effects of recreational activity on wildlife in wildlands. Trans. 56th N.A. Wildl. & Nat. Res. Conf. pp. 238-247.
- Kocis, Susan M.; English, Donald B.K.; Zarnoch, Stanley J.; Arnold, Ross; Warren, Larry; Ruka, Catherine. 2004. National visitor use monitoring results. Albuquerque, NM: USDA Forest Service, Region 3, Coconino National Forest. 25 p. Online: <u>http://www.fs.fed.us/recreation/programs/nvum/. Accessed October 9, 2010</u>.
- Kolka, R.K. and M.F. Smidt. 2004. Effects of forest road amelioration techniques on soil bulk density, surface runoff, sediment transport, soil moisture and seedling growth. Forest Ecology and Management 202:313-323.

- Koontz, Clifton. 2005. Recreational trail conflict: achieving equity through diversity. (Master's thesis). University of Montana, College of Forestry and Conservation. 7 p.
- LeFevre, Robert E. 2006. Restoring the health of fire-adapted ecosystems in the southwest: some effects on soil and water. USDA Forest Service. Coronado National Forest. Tucson, AZ: 5 p.
- Legg, K. 1999. Bighorn Sheep (*Ovis canadensis*). Pages 5-9 *In* Oligg, T., K. Legg and B. Kaeding, eds. 1999. Effects of winter recreation on wildlife of the Greater Yellowstone Area: a literature review and assessment. Report to the Greater Yellowstone Coordinating Committee. Yellowstone National Park, Wyoming. 315 p.
- Lightfoot, Kent G.1978. An archaeological survey of the Nicks Camp Timber Sale. Apache-Sitgreaves National Forests Supervisor's Office, Springerville.
- Lightfoot, Kent and Julie E. Francis. 1978. The impact of casual collecting on archeological interpretation through regional surface surveys. In An Analytical Approach to Cultural Resources Management: The Little Colorado Planning Unit, edited by Fred Plog. pp. 91-113. Arizona State University Anthropological Research Papers No. 13, Tempe.
- Lisle, T. E., 1982, Effects of aggradation and degradation on riffle-pool morphology in natural gravel channels, northwestern California. Water Resources Research 18:1643-1651.
- Lindberg, K. and J. Loomis, 2009. Economic impacts of non-motorized (quiet) recreation on the Wallowa-Whitman National Forest, Central Oregon Recreation Services. Online: <u>http://wilderness.org/files/WWNF-Economic-Impact-Report.pdf</u>
- Livezey, Kent B. 1991. Home range, habitat use, disturbance, and mortality of Columbian blacktailed deer in Mendocino National Forest. Calif. Fish and Game (77)4: 201-209.
- Lode, T. 2000. Effect of a motorway on mortality and isolation of wildlife populations. Ambio 29:163-166.
- Lovallo, M.J., and E.M. Anderson. 1996. Bobcat movements and home ranges relative to roads in Wisconsin. Wildlife Society Bulletin 24:71-76.
- Lovich, J.E. and D. Bainbridge. 1999. Anthropogenic Degradation of Southern California Desert Ecosystem and Prospects for Recovery and Restoration. Environmental Management Vol. 24(3): 309-326.
- Lynn, Natasha A., and Robert D. Brown. 2003. Effects of recreational use impacts on hiking experiences in natural areas. Landscape and Urban Planning: 64. 77-87 pp.
- Lyon, L.J. 1979. Habitat Effectiveness for Elk as Influenced by Roads and Cover. Journal of Forestry 81:592-595. 1979.
- Lyon, L.J. 1983. Road density models describing habitat effectiveness for elk. J. Forestry.81:592-595.
- MacArthur, R.A., R.H. Johnston, and V. Geist. 1979. Factors influencing heart rate in freeranging bighorn sheep: a physiological approach to the study of wildlife harassment. Can. J. Zool. Vol. 57: 2010-2021.

- Mackey, R.L. and R.M.R. Barclay. 1988. In: Hickman, G. R., Dixon, B. G., Corn, J. 1999. Small mammals. Pages 4.1-4.16 in G. Joslin and H. Youmans, coordinators. The effects of recreation on rocky mountain wildlife: A review for Montana. Committee on Effects of Recreation on Wildlife. Montana Chapter of the Wildlife Society. 307 p.
- Mader, H.J. 1984. Animal isolation by roads and agricultural fields. Biological Conservation. *In:* Gucinski, H., M.J. Furniss, R.R. Ziemer and M.H. Brookes [eds]. 2000. Forest Roads: A Synthesis of Scientific Information. Gen. Tech. Rep. PNW-GTR-509. Portland, OR; U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 117 p.
- Marlon, J.R., Bartlein, P.J., Walsh, M.K., Harrison, S.P., Brown, K.J., Edwards, M.E., Higuera, P.E., Power, M.J., Whitlock, C., Anderson, R.S., Briles, C., Brunelle, A., Carcaillet, C., Daniels, M., Hu, F.S., Lavoie, M., Long, C., Minckley, T., Richard, P.J.H., Shafer, D.S., Tinner, W., Umbanhower, C.E. Jr. 2009. Wildfire responses to abrupt climate change in North America. Proceedings of the National Academy of Science 106 (8): 2519-2524.
- Marsh, P.C. and C.A. Pacey. 2005. Immiscibility of native and nonnative fishes. Pages 59-63 in Brouder, M. J., C. L. Springer and S. C. Leon, editors. Proceedings of two symposia: Restoring native fish to the lower Colorado River: Interactions of native and nonnative fishes. July 13-14, 1999, Las Vegas, Nevada, and Restoring natural function within a modified riverine environment: The lower Colorado River. July 8-9, 1998. U.S. Fish and Wildlife Service, Southwest Region, Albuquerque, New Mexico.
- McCay, Roger E. and George H. Moeller. 1976. Compatibility of Ohio trail users. Upper Darby, PA: Northeastern Forest Experiment Station, USDA Forest Service; Research Note NE-225. 4 p.
- McKenney, Daniel W.; Pedlar, John H.; Lawrence, Kevin; Campbell, Kathy; Hutchinson, Michael F. 2007. Potential impacts of climate change on the distribution of North American Trees. *BioScience*, 57(11): 939-948.
- Meehan, W.R., ed. 1991. Influences of forest and rangeland management on salmonid fishes and their habitats. American Fisheries Society Special Publication 19. Bethesda, Maryland, USA.
- Megahan and Ketcheson. 1996. Predicting downslope sediments from forest roads in Idaho. Journal of the American water Resources Association. Volume 32, Issue 2. pp. 371-382, April 1996.
- Merrian, G.M., Kozakiewicz, E. Tsuchiya and K. Hawley. 1989. Barriers as boundaries for metapopulations and demes of *Peromyscus leucopus* in farm landscapes. Landscape Ecology 2:227-236 in Trombulak, S.C., Frissell, C.A. 2000. Review of Ecological Effects of Roads on Terrestrial and Aquatic Communities. Conservation Biology. (14)1: 18-30.
- Middleton, B.A., 2006, Invasive species and climate change: U.S. Geological Survey Open-File Report : 2006-1153, 2 p.
- Miller, D.J. and L.E. Benda. 2000. Effects of punctuated sediment supply on valley-floor landforms and sediment transport. GSA Bulletin 112:1814-1824.
- Minckley, W.L. 1973. Fishes of Arizona. Arizona Game and Fish Department, Phoenix
- Minckley, W.L. and Deacon, J.E. 1991. Battle against extinction: native fish management in the American West. Tucson: University of Arizona Press.

Final Environmental Impact Statement - Travel Management on the Coconino National Forest

- Minckley, W.L., Marsh, P.C., 2009. Inland Fishes of the Greater Southwest: Chronicle of a Vanishing Biota. The University of Arizona Press, Tucson, AZ.
- Moen, A.N. 1978. Seasonal changes in heat rates, activity, metabolism, and forage intake of white-tailed deer. The Journal of Wildlife Management, Vol. 42 (4): 715-738.
- Moen, A.N., S. Whittemore, and B. Buxton. 1982. Effects of disturbance by snowmobiles on heart rate of captive white-tailed deer. New York Game and Fish Journal 29(2): 176-183.
- Montana Fish Wildlife and Parks. 2000. OHV and Hunting Summit: A summit to address ethics information and education. 2000. Great Falls, Montana.
- Montes-Helu, M., Kolb, T.E., Dore, S., Sullivan, B.W., Hart, S.C., Koch, G.W., Hungate, B.A. 2009. Persistent effects of fire-induced vegetation change on energy partitioning and evapotranspiration in ponderosa pine forests. Agricult. For. Meteorol. Vol 149: 491-500 pp.
- Morgantini, L.E., Hudson, R. J. 1977. Human disturbance and habitat selection in elk. University of Alberta, Department of Animal Sciences.
- Mortensen D.A., E.S.J. Rauschert, A.N. Nord, and B.P. Jones. 2009. Forest roads facilitate the spread of invasive plants. Invasive Plant Sci Manag. Vol. 2: 191–199 pp.
- Nagorsen, D.W.; Brigham, R.M. 1993. Bats of British Columbia. In: Gucinski, H., M.J. Furniss, R.R. Ziemer and M.H. Brookes [eds]. 2000. Forest Roads: A Synthesis of Scientific Information. Gen. Tech. Rep. PNW-GTR-509. Portland, OR; U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 117 p.
- Napper, Carolyn. 2008. Effects of all terrain vehicles on national forest lands and grasslands; San Dimas Technology and Development Center, (draft).
- Nash, R.F., G.G. Gallup Jr., and M.K. McClure. 1970. The immobility reaction in leopard frogs (*Rana pipiens*) as a function of noise-induced fear. In Maxell, B. A., and D. G. Hokit. 1999. Amphibians and Reptiles. Pages 2.1-2.29 *in* G. Joslin and H. Youmans, coordinators. Effects of recreation on Rocky Mountain wildlife: A review for Montana. Committee on Effects of Recreation on Wildlife, Montana Chapter of the Wildlife Society. 307 pp.
- Nelson, J.R., and T.A. Leege. 1982. Relationships of elk and other large herbivores. *In*: J.W. Thomas and D.E. Toweill [eds.]. Elk of North: Ecology and management. Harrisburg, PA: Stackpole Books. p. 415–441.
- Nickens, Paul R., Signa L. Larralde, Gordon C. Tucker, Jr. 1981. A survey of vandalism to archaeological resources in Southwestern Colorado. Bureau of Land Management, Colorado, Cultural Resources Series No. 11, Denver.
- Ockenfels, Richard A.; Devos, Jr., James C.; Hervert, John J. Transportation corridors and pronghorn: What do we know and what can we do about it. In: Cearley, K.A. and S. Nelle, editors. 2006. Pronghorn Symposium 2006. August 15-17, 2006, Alpine, TX. Texas Cooperative Extension, Amarillo, USA. 3 p.
- Olive, N.D.; and Marion, J.L. 2009. The influence of use-related, environmental, and managerial factors on soil loss from recreational trails, Journal of Environmental Management 90: pp. 1483–1493.

- Omana, Emily, and Dick Fleishman. 2008. Using volunteers to close roads on the Mogollon Rim Ranger District of the Coconino National Forest, Grand Canyons Wildland Council. Coconino National Forest. Unpublished. Pp. 1-11.
- Ortega Y.K., and D.E. Capen.1999. Effects of forest roads on habitat quality for ovenbirds in a forested landscape. The Auk 116(4): 937-946.
- Oxley, D. and J.M.B. Fenton. 1974. *In*: Trombulak, S.C., Frissell, C.A. 2000. Review of ecological effects of roads on terrestrial and aquatic communities. Conservation Biology. (14)1: 18-30.
- Oxley, D., J.M.B. Fenton, and G.R. Carmody. 1974. The effects of roads on populations of small mammals. Journal of Applied Ecology, Vol. 11(1), pp. 51-59.
- Parendes, Laurie A and Julia A. Jones. 2000. Role of light availability and dispersal in exotic plant invasion along roads and streams in the H.J. Andrews Experimental Forest, Oregon. Conservation Biology. Vol. 14 (1). Pp. 64-75
- Paton, P.W.C. 1994. The effect of edge on avian nest success: How strong is the evidence? Conservation Biology Vol. 8 (1):17-26.
- Perry, Charles and Robert Overly. 1974. Impacts of roads on big game distribution in portions of the blue mountains of Washington. Washington State Department of Game: pp.62-68.
- Phillips, Barbara G. 2008. Biological assessment for threatened and endangered species, Phase II maintenance in utility corridors on Arizona forests. Unpublished document on file at Coconino National Forest Supervisor's Office, Flagstaff, Arizona. 18 p.
- Phillips, G.E., A.W. Alldredge. 1998. Reproductive success of elk following disturbance by humans during calving season. The Journal of Wildlife Management. Vol. 64(2), pp. 521-530.
- Phillips, P., and A. Tecle, 2002. An analysis of human settlement impacts on riparian areas in the Beaver Creek Watershed of North Central Arizona. *In*: Hydrology and Water Resources in Arizona and the Southwest; Issue 32; Tucson, AZ: University of Arizona: 39-44. Online: http://www.rmrs.nau.edu/awa/verde/2003AnAnalysisofHumanSettlementImpacts.pdf

nup://www.rmrs.nau.edu/awa/verde/2003AnAnaiysisoiHumanSettementimpacts.pdf

- Platts, W.S., R.J. Torquemada, M.L. McHenry, and C.K. Graham. 1989. Changes in salmon spawning and rearing habitat from increased delivery of fine sediment to the South Fork Salmon River, Idaho. Transactions of the American Fisheries Society 118:274-283.
- Posewitz, J. 1994. Beyond fair chase: The ethic and traditions of hunting. Falcon Publishing, Helena Montana. 118 p.
- Rahel, F.J., and J.D. Olden. 2008. Assessing the effects of climate change on aquatic invasive species. Conservation Biology 22 (3): 521-533
- Reading, R.P. and R. Hachett. 1997. Attributes of black-tailed prairie dog colonies in north central Montana. J. Wildl. Manage. 61(3):664-673.
- Reed, R., A.J. Johnson-Barnard and W.L. Baker. 1996. Contribution of Roads to Forest Fragmentation in the Rocky Mountains. Conservation Biology Vol. 10(4): 1098-1106.

- Regier, H.A., and J.D. Meisner. 1990. Anticipated effects of climate change on freshwater fishes and their habitat. Fisheries 15: 10-15.
- Reichhart, Thomas, and Arne Arnberger. 2010. Exploring the influence of speed, social, managerial and physical factors on shared trail preferences using a 3D computer animated choice experiment. *Landscape and Urban Planning*: 96. pp. 1-11.
- Rennison, D.C., and A. Wallace. 1976. The extent of acoustic influence on off-road vehicles in wilderness areas. Department of Mechanical Engineering, University of Adelaide, Australia, pp.19. in The Impacts of Off-road Vehicle Noise on Wildlife, Wildlands Council.
- Responsive Management. 2006. Arizona big game hunt permit tag draw study. Conducted for the Arizona Game and Fish Department. Unpublished. 193 pp.
- Rich, A.C., and D.S. Dobkin. 1994. Defining forest fragmentation by corridor width: the influence of narrow forest-dividing corridors on forest-nesting birds in southern New Jersey. Conservation Biology 8:1109-1121.
- Richardson, Cary T.; and Miller, Clinton K. 1997. Recommendations for protecting raptors from human disturbance: a review. Wildlife Society Bulletin, 25(3): 634-638 pp.
- Rinne, J.N. and D.G. Neary. 2000. Watersheds and fisheries relationships: state of knowledge, southwestern United States. *In:* Land Stewardship in the 21st century: The contributions of watershed management. Proceedings, Rocky Mountain Research Station-P-13.
- Rooney, Thomas P. 2005. Distribution of ecologically-invasive plants along off-road vehicle trails in the Chequamegon National Forest, Wisconsin. The Michigan Botanist. 44: 178-182 pp.
- Rost, G.R. 1975. Response of deer and elk to roads. M.S. Thesis, Colorado State University, Fort Collins. 51 pp.
- Rowe, D.K. and T.L. Dean. 1998. Effects of turbidity on the feeding ability of the juvenile migrant stage of six New Zealand freshwater fish species. New Zealand Journal of Marine and Freshwater Research 32(1):21-29.
- Russell, John C.; Adams-Russell, Peggy A. 2006. Values, attitudes and beliefs toward National Forest System Lands: Arizona Tribal Peoples. Prepared for USDA Forest Service, Southwestern Region. 33 p.
- Sachet, G.A. 1988. Wildlife Evaluation Processes for ORV, Hiking, and Horse Backcountry Recreation Use in Washington Forests. Washington Department of Wildlife, Habitat Management Division. 86 p.
- Schmidt, W. 1989. Plant dispersal by motor cars. Vegetation. 80: 147-152.
- Schroeder, Melissa R., with contributions by Adrienne M. Tremblay, Joshua S. Edwards, and Theodore M. Roberts. 2010. Cultural Resources Specialist Report for the Travel Management Environmental Impact Statement. USDA Forest Service, Southwestern Region, Apache-Sitgreaves National Forests.
- Shaw, E.A. and J.S. Richardson. 2001. Direct and indirect effects of sediment pulse duration on stream invertebrate assemblages and rainbow trout (*Oncorhynchus mykiss*) growth and survival. Canadian Journal of Fisheries and Aquatic Sciences 58: 2213-2221.

281

- Silberman, Jonathan. 2003. The economic importance of off-highway vehicle recreation. Economic data on off-highway vehicle recreation for the State of Arizona and for each Arizona County. Arizona State University West. 91 p.
- Slauson, Keith M.; Zielinski, William J. 2008. Northern goshawk population monitoring in Lake Tahoe Basin: Monitoring plan development and protocol, Final Report. USDA Forest Service, Pacific Southwest Research Station: Arcata, Ca. Online: <u>http://www.fs.usda.gov/Internet/FSE\_DOCUMENTS/stelprdb5150417.pdf [accessed</u> 6/24/2011].
- Solvesky, B. and C. Chambers. 2007. Bat roost inventory and monitoring project for Arizona Game and Fish Department Region 2. Flagstaff, AZ. 26 p.
- Spellerberg, I.F. 1998. "Ecological effects of roads and traffic: a literature review." Global Ecology and Biogeography Letters 7: 317-333.
- Stalmaster, M.V. and J.R. Newman. 1978. Behavioral responses of wintering bald eagles to human activity. Journal of Wildlife Management 42(4):506-513.
- Stalmaster, M.V. 1987. The bald eagle. New York: Universe Books. 227 p.
- Stamps, J.A., M. Buechner, and V.V. Krishnan. 1987. The effects of edge permeability and habitat geometry on emigration from patches of habitat. The American Naturalist Vol. 129(4):533-552.
- Stebbins R.C., N.W. Cohen. 1995. A Natural History of Amphibians. Princeton University Press.
- Steinke, Rory. 2007. Travel Management Field Trip Notes for 9/1/2007. Coconino National Forest. Unpublished, project files.
- Stokowski, Patricia A., and Christopher B. LaPointe. 2000. Environmental and social effects of ATVs and ORVs: an annotated bibliography and research assessment. School of Natural Resources, University of Vermont. Online: <u>http://atfiles.org/files/pdf/ohvbibliogVT00.pdf</u> Accessed 8/12/2009.
- Stoneman, C.L. and M.L. Jones. 2000. The influence of habitat features on the biomass and distribution of three species of southern Ontario stream salmonids. Transactions of the American Fisheries Society 129(3):639-657.
- Strittholt, James R., and Dominick A. Dellasala. 2001. Importance of Roadless Areas in Biodiversity Conservation in Forested Ecosystems: Case Study of the Klamath-Siskiyou Ecoregion of the United States. Conservation Biology, 15(6): 1742-1754.
- Sullivan, B.K. 1991. Distribution and status of the Arizona toad, *Bufo microscaphus microscaphus*. Report submitted to Arizona Game and Fish Department. 24 p. plus locality information.
- Sullivan, Marie E. and Mary E. Richardson. 1993. Functions and Values of the Verde River Riparian Ecosystem and an Assessment of Adverse Impacts to These Resources. Report prepared for U.S. Environmental Protection Agency, Region 9, San Francisco, California. U.S. Fish and Wildlife Service, Arizona Ecological Services Office. Phoenix, Arizona. 364 p.

- Swan, E. [no date]. "Off-road vehicle use negatively affects ponderosa pine forest characteristics." Master's Thesis, Northern Arizona University, Flagstaff. Unpubl. data.
- Sweka, J.A. and K.J. Hartman. 2001a. Effects of turbidity on prey consumption and growth in brook trout and implications for bioenergetics modeling. Canadian Journal of Fisheries and Aquatic Sciences 58(2):386-393.
- Sweka, J.A. and K.J. Hartman. 2001b. Influence of turbidity on brook trout reactive distance and foraging success. Transactions of the American Fisheries Society 130(1):138-146.
- Swihart, R.K. and N.A. Slade. 1984. Road crossing in Sigmodon hispidus and Microtus ochrogaster. J. Mamm. 65(2): 357-360.
- Taylor, M.E. 1971. Bone disease and fractures in east African vivverids. Canadian Journal of Zoology 49: 1035-1042.
- Theobald, D.M., and N. Thompson Hobbs. 1998. Forecasting Rural Land-Use Change: A comparison of regression-and spatial transition-based models. Geographic and Environmental Modeling, Vol. 2 (1): 65-82.
- Thurow, R.F., D.C. Lee, and B.E. Rieman. 1997. Distribution and status of seven native salmonids in the interior Columbia River Basin and portions of the Klamath River and Great Basins. North American Journal of Fisheries Management 17:1094-1110.
- Trombulak, S.C. and Frissell, C.A. 2000. Review of Ecological Effects of Roads on Terrestrial and Aquatic Communities. Conservation Biology. (14)1: 18-30.
- Tuttle , M.D. 1988. America's neighborhood Bats. Austin, TX. University of Texas Press. 96pp In: Gucinski, H., M. J. Furniss, R. R. Ziemer and M. H. Brookes [eds]. 2000. Forest Roads: A Synthesis of Scientific Information. Gen. Tech. Rep. PNW-GTR-509. Portland, OR; U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 117 p.
- U.S. Census Bureau. 2009. 2009 County Business Patterns: Coconino, Gila, Yavapai counties. Online: <u>http://www.census.gov/econ/cbp/index.html</u> [2010 Oct. 8].
- USDA Agricultural Research Service, National Soil Erosion Research Laboratory. Moscow, Idaho. Water Erosion Prediction Project Website at <u>http://forest.moscowfsl.wsu.edu/fswepp/</u>. Elliot et. al. 9/22/2006.
- USDA Agricultural Research Service, National Soil Erosion Research Laboratory. Moscow, Idaho. WEPP: Road (Draft 12/1999) Interface for Predicting Forest Road Runoff, Erosion and Sediment Delivery, Technical Documentation. Saved in electronic version as WEPP Technical Documentation, Draft Version.mht
- USDA Agricultural Research Service. 2009. Universal Soil Loss Equation database via website, <u>http://topsoil.nserl.purdue.edu/usle/index.html</u>, 2009 and saved in electronic format as USLE Database.mht.
- USDA Forest Service. 1974. National Forest landscape management; volume 2, chapter 1, The visual management system. Agriculture Handbook No. 462. 47 pp. Available online: <u>http://naldr.nal.usda.gov/NALWeb/Agricola\_Link.asp?Accession=CAT87208522</u>

- USDA Forest Service. 1987. Coconino National Forest Land and Resource Management Plan. Southwestern Region. Albuquerque, NM.
- USDA Forest Service. 1995. Terrestrial Ecosystems Survey of the Coconino National Forest. Southwestern Region, Albuquerque. 405 p.
- USDA Forest Service. 1998. Coconino, Kaibab and Prescott National Forests. Noxious Weeds Strategic Plan Working Guidelines, Coconino, Kaibab and Prescott National Forests. Unpublished document in file at Coconino National Forest, Supervisor's Office.
- USDA Forest Service. 1999. Blue Ridge, Long Valley ATV survey. Coconino National Forest. Unpublished report. 3 p.
- USDA Forest Service. 2000. Landscape Aesthetics: A Handbook for Scenery Management. Agriculture Handbook Number 701. Available online: <u>http://library.rawlingsforestry.com/fs/landscape\_aesthetics/</u>
- USDA Forest Service. 2001. 2000 RPA Assessment of Forest & Range Lands. FS-687. Washington, D.C.: USDA Forest Service.
- USDA Forest Service. 2001a. Roadless Area Conservation Rule. Federal Register 66(9) January 12, 2001; p. 3245.
- USDA Forest Service 2001b.Scenery Management Implementation and Forest Plan Revisions. Internal Memo to Regional Foresters from James R. Furnish, Deputy Chief, National Forest System. Washington, DC. 2 p.
- USDA Forest Service. 2003. Environmental assessment for management of noxious weeds and hazardous vegetation on public roads on national forest system lands in Arizona. Albuquerque, NM: USDA Forest Service, Southwestern Region.
- USDA Forest Service. 2004. Road rehabilitation: Examples from Campbell Mesa. Coconino National Forest, Flagstaff, AZ: Unpublished report available at the Coconino National Forest Supervisor's Office.
- USDA. Forest Service. 2005. Final Environmental Impact Statement for Integrated Treatment of Noxious or Invasive Weeds, Coconino, Kaibab, and Prescott National Forests within Coconino, Gila, Mojave, and Yavapai Counties, Arizona. Albuquerque, NM: USDA Forest Service, Southwestern Region. Available at http://www.fs.fed.us/r3/coconino/nepa/2005/feis-weeds/index.shtml. 613 p.
- USDA Forest Service. 2007. Ecological Sustainability Analysis of the Coconino National Forest: An Evaluation Terrestrial Ecosystems (Ecological Units, Soil Composition, Structure and Processes) that Affect Ecosystem Diversity and Contribute to Ecological Sustainability, December 2007. Coconino National Forest. Unpublished, Project files.
- USDA Forest Service. 2007a. Coconino National Forest GIS roads analysis process risk summary analysis (from combined Forest RAP). Coconino National Forest. Unpublished, project files. March, 2007.
- USDA Forest Service. 2008. Summer Annual Operating Instructions for Windmill Allotment. Coconino National Forest. Available at: <u>http://www.fs.fed.us/r3/coconino/nepa/grazing\_docs/08\_windmill.pdf</u>. 9 p.

- USDA Forest Service. 2008a. Patterns of Disturbance from Dispersed Camping and Motorized Use, Feb. 2008. From Dispersed Camping Science Quorum of 1-10-2008., Coconino National Forest, Southwestern Region, USDA Forest Service. Unpublished, project files.
- USDA Forest Service. 2008b. Experimental Forests and Ranges. Online at: http://www.fs.fed.us/research/efr/about/index.shtml
- USDA Forest Service. 2009. National Visitor Use Monitoring Results, Coconino National Forest. Updated February 2009. USDA Forest Service, Southwestern Region. Unpublished report. 82 p. Available online at: <u>http://apps.fs.usda.gov/nrm/nvum/results/Default.aspx</u>.
- USDA Forest Service. 2010. Documentation of site-specific route and corridor review with Fish and Wildlife Service on October 8, 2010. Coconino National Forest. Unpublished, available in the Travel Management Project file. Flagstaff, AZ.
- USDA. Forest Service. 2010a. Southwestern region climate change trends and forest planning: A guide for addressing climate change in forest plan revisions for Southwestern National Forests and National Grasslands. Albuquerque, NM: USDA Forest Service Southwestern Region. Available at: <u>http://fsweb.r3.fs.fed.us/eap/climate/r3/r3-climate-change-trends-and-forest-planning-2010-05.docx</u>. 46 p.
- USDA Forest Service. 2011. Summarized Arizona Game and Fish Department Hunt Data May 5, 2011. Unpublished spreadsheet. Coconino National Forest, Flagstaff, AZ.
- USDA Forest Service. 2011a. Various e-mails regarding user-conflict from July and August 2011. August 10, 2011. Available in project record.
- USDA Forest Service. 2011b. Draft Potential Wilderness Area Evaluation Report. Coconino National Forest, Flagstaff, AZ. Online: <u>http://www.fs.fed.us/r3/coconino/projects/plan-revision/documents/wilderness-evaul.shtm [September 11, 2011].</u>
- USDI Fish and Wildlife Service. 1987. San Francisco Peaks Groundsel (*Senecio franciscanus*) Recovery Plan. U.S. Fish and Wildlife Service, Ecological Services State Office, Phoenix, Arizona. 39 p.
- USDI Fish and Wildlife Service. 1995. Recovery plan for the Mexican spotted owl (*Strix occidentalis lucida*). Albuquerque, New Mexico.
- USDI Fish and Wildlife Service. 1995a. Arizona Cliffrose (*Purshia subintegra*) Recovery Plan. USDI Fish and Wildlife Service, Arizona Ecological Services State Office, Phoenix, Arizona. 90 p.
- USDI Fish and Wildlife Service. 1996. Endangered and threatened wildlife and plants: establishment of a nonessential experimental population of Black-footed Ferrets in Aubrey Valley, Arizona, final rule. Federal Register 61(55):11320-11336.
- USDI Fish and Wildlife Service. 1998. Razorback sucker recovery plan. Region 6, Denver, Colorado.
- USDI Fish and Wildlife Service. 2002a. Colorado pikeminnow (*Ptychocheilus lucius*) recovery goals: amendment and supplement to the Colorado squawfish recovery plan. U.S. Fish and Wildlife Service, Mountain-Prairie Region (6), Denver, Colorado.

- USDI Fish and Wildlife Service. 2002b. Razorback sucker (*Xyrauchen texanus*) recovery goals: amendment and supplement to the Razorback Sucker Recovery Plan. U.S. Fish and Wildlife Service, Mountain –Prairie Region (6), Denver, Colorado. 113 p.
- USDI Fish and Wildlife Service. 2005. Programmatic biological and conference opinion: the continued implementation of the Land and Resource Management Plans for the Eleven National Forests and National Grasslands of the Southwestern Region. Regional Office, Region 2. U.S. Fish and Wildlife Service, Consultation #2-22-03-F-366.
- USDI Fish and Wildlife Service. 2007. Chiricahua Leopard Frog (*Rana chiricahuensis*) Recovery Plan. U.S. Fish and Wildlife Service, Southwest Region, Albuquerque, NM. 149 pp. + Appendices A-M.
- USDI Fish and Wildlife Service. 2010. Endangered and threatened wildlife and plants; endangered status and designation of critical habitat for spikedace and loach minnow; proposed rule. Federal Register 75(208):66482-66552.
- USDI Fish and Wildlife Service, and U.S. Department of Commerce, U.S. Census Bureau. 2006. National Survey of Fishing, Hunting, and Wildlife-Associated Recreation. Online: http://www.census.gov/prod/www/abs/fishing.html. Accessed 10/9/2010.
- U.S. EPA (Environmental Protection Agency). 2010a. Arizona Federal Class I Areas. Accessed online: <u>http://www.epa.gov/region9/air/maps/images/az\_clss1.gif</u>. Accessed 10/9/2010.
- U.S. EPA. 2010b. Nonattainment Areas map Criteria Air Pollutants: PM10. Accessed online: <u>http://www.epa.gov/cgi-</u> bin/broker?\_service=airdata&\_program=progs.webprogs.nonat.scl. Accessed 10/9/2010.
- Van Mantgem, Phillip J.; Stephenson, Nathan L.; Byrne, John C.; Daniels, Lori D.; Franklin, Jerry F.; Fulé, Peter Z.; Harmon, Mark E.; Larson, Andrew J.; Smith, Jeremy M.; Taylor, Alan H.; Veblen, Thomas T. 2009. Widespread Increase of Tree Mortality Rates in the Western Unites States. Science, 323: 521-524.
- Von der Lippe, Moritz and Ingo Kowarik. 2007. Long-distance dispersal of plants by vehicles as a driver of plant invasions. Conservation Biology. 21(4): 986-996.
- Voshell, J.R. 2002. A Guide to Common Freshwater Invertebrates of North America. Blacksburg, Virginia. The McDonald and Woodward Publishing Company.
- Warren, M. L. and M. G. Pardew. 1998. Road crossings as barriers to small-stream fish movement. Transactions of the American Fisheries Society 127:637-644.
- Weisenberger, M.E., P.R. Krausman, M.C. Wallace, D.W. De Young, and O.E. Maughan. 1996. Effects of simulated jet aircraft noise on heart rate and behavior of desert ungulates. *In*: Canfield, J. E., L. J. Lyon, J. M. Hillis, and M. J. Thompson. 1999. Ungulates. Pages 6.1-6.25 in G. Joslin and H. Youmans, coordinators. Effects of recreation on Rocky Mountain wildlife: A Review for Montana. Committee on Effects of Recreation on Wildlife, Montana Chapter of the Wildlife Society. 307 p.
- Wemple, B.C., J.A. Jones, and G.E. Grant. 1996. Channel network extension by logging roads in two basins, Western Cascades, Oregon. Water Resources Bulletin 32(6):1195-1207.
- White, C.M., T.L. Thurow. 1985. Reproduction of ferruginous hawks exposed to controlled disturbance. Condor 87:14-22.

- White, Eric. 2008. Personal communication on January 3, 2008 with project economist regarding forest-level spending averages. Documentation available in project file.
- Williams, Lance R. 1978. Vandalism to Cultural Resources of the Rocky Mountain West. USDA Forest Service, Southwestern Region, Cultural Resources Report No. 21, Albuquerque, NM.
- Wisdom, M.J., and L.J. Bate. 2008. Snag density varies with intensity of timber harvest and human access. For. Ecol. Manage. 255: 2085–2093.
- Wisdom, Michael J.; Ager, Alan A.; Preisler, Haiganoush K.; Cimon, Norman J.; Johnson, Bruce K. 2004. Effects of off-road recreation on mule deer and elk. In: Transactions of the 69th North American Wildlife and Natural Resource Conference: pp. 531-550.
- Wood, P.J. and P.D. Armitage. 1997. Biological effects of fine sediment in the lotic environment. Environmental Management 21(2):203-217.
- Ziemer, R.R., J. Lewis, T.E. Lisle, and R.M. Rice. 1991. Long-term sedimentation effects of different patterns of timber harvesting. *In*: Proceedings Symposium on Sediment and Stream Water Quality in a Changing Environment: Trends and Explanation. XX General Assembly, International Union of Geodesy and Geophysics, 11-24 August 1991, Vienna, Austria. International Association of Hydrological Sciences Publication 203:143-150. Wallingford, UK.