Appendix A- References

Adam, M.D., M.J. Lacki, and T.G. Barnes. 1994. Foraging areas and habitat use of the Virginia Big-eared bat in Kentucky. J. Wild. Manage. 58(3): 462-469.

Adams, M.B., J.A. Burger, A.B. Jenkins, and L. Zelazny. 2000. Impact of harvesting and atmospheric pollution on nutrient depletion of eastern U.S. hardwood forests. Forest Ecology and Management 138:301-319.

Adams, Mary B. 1999. Acidic deposition and sustainable forest management in the central Appalachians, USA, Forest Ecology and Management, Volume 122, Issues 1-2, p 17-28.

Adams, Mary B. and J.N. Kochenderfer. 1998. The Fernow Whole-watershed Acidification Study: Soil Chemistry. *In* "The Effects of Acid Deposition on Pennsylvania's Forests." (W.E. Sharpe and J.R. Drohan, eds.) Proceedings of the 1998 PA Acidic Deposition Conference, Vol. 1. Environmental Resources Research Institute, University Park, PA.

Adams, Mary B. and J.N. Kochenderfer. 1999. The Fernow Whole Watershed Acidification Study: Soil Chemistry.

Adams, P.W., 1991. Soil Compaction on Woodland Properties. Oregon State University Extension Service. The Woodland Workbook. Extension Circular 1109, Revised January 1991.

Allen, T.J. 1997. The Butterflies of West Virginia and Their Caterpillars. University of Pittsburgh Press, Pittsburgh, PA 15261

Allen, T.J. and R.E. Acciavatti. 2002. Tiger Beetles of West Virginia. West Virginia Division of Natural Resources Wildlife Resources Section.

Ambuel, B., S.A. Temple. 1983. Area-dependent changes in bird communities and vegetation of southern Wisconsin forests. Ecology. 64:159-171.

Arthur, M. A., G. D. Coltharp, and D. L. Brown, 1998. Effects of Best Management Practices on Forest Streamwater Quality in Eastern Kentucky. Journal of the American Water Resources Association. 34(3): 481-495.

Askins, R.A. 1993. Population trends in grassland, shrubland, and forest birds in eastern North America. Current Ornithology. 7:1-34.

Bache, B.W. 1986. Aluminum mobilization in soils and waters. Journal of the Geologic Society, London 143:699-706.

Bailey, R.W. and K.T. Rinell. 1968. History and management of the wild turkey in West Virginia. West Virginia Department of Natural Resources, Bulletin #6.

Bailey, S.W., S.B. Horsley, R.P. Long, and R.A. Hallett. 2004. Influence of edaphic factors on Sugar Maple nutrition and health on the Allegheny Plateau. Soil Sci. Soc. Am. J. 68:243-252.

Bailey, Tom, George Washington-Jefferson NF Forest Soil Scientist. 2004. Personal communication.

Bard Jane, 2007. Personal Communication. South Zone Silviculturist Gauley Ranger District. Monongahela National Forest .

Bard, Jane, South Zone Silviculturist, Gauley Ranger District. Monongahela National Forest. 2005. Personal Communication.

Beneski, and J.T. and D.W. Stinson. 1987. *Sorex palustris*. Mammalian Species. No. 296. pp. 1-6.

Berger, A.L., K.J. Puettmann, and G.E. Host. 2004. Harvesting impacts on soil and understory vegetation: the influence of season of harvest and within-site disturbance patterns on clear-cut aspen stands in Minnesota. Can. J. For.Res. 34:2159-2168.

Binkley, D., C.T. Driscoll, H.L. Allen, P. Schoeneberger, and D. McAvory. 1989. Acidic deposition and forest soils: Context and case studies in the southeastern United States. Springer-Verlag, New York.

Bjornn, T.C. and D.W. Reiser, 1991. Habitat Requirements of Salmonids in Streams. Influences of Forest Rangeland Management on Salmonid Fishes and Their Habitats. William R. Meehan, Editor. American Fisheries Society Special Publication 19:83-138.

Blake, J.G. J.R. Karr. 1984. Species composition of bird communities and the conservation benefit of large versus small forests. Biological Conservation. 30:173-187.

Blanco, J.A., M.A. Zavala, J.B. Imbert, and F.J. Castillo. 2005. Sustainability of forest management practices: evaluation through a simulation model of nutrient cycling. Forest Ecology and Management 213:209-228.

Brady, N.C. and R.R. Weil. 2002. The nature and properties of soils, 3rd ed. Prentice Hall, New Jersey.

Brinker, David F. 1998. Intimidation tactics of a rare bird: The fierce northern goshawk.

Wonderful West Virginia. June.

Brown, W.S. 1993. Biology, status, and management of timber rattlesnake (*Crotalus horridus*): A guide for conservation. Soc. Study Amph. Rept., Herp. Circ. 22: 1-72.

Buckelew, A.R., Jr. and G. A. Hall. 1994. The West Virginia Breeding Bird Atlas. University of Pittsburgh Press. pp. 43 & 151.

Bulger, A.J., B.J. Cosby and J.R. Webb. 2000. Current, reconstructed past and projected future status of brook trout (Salvelinus fontinalis) streams in Virginia. Can. J. Fish. Aq Sci. 57:1515-1523.

Burger, J.A., et. al. 1983. Impact of tracked and rubber-tired tractors on a forest soil. Amer. Soc. of Agric. Engineers. Paper No. 83-1621.

Burns, R.M. and Honkala, B.H. 1990. Silvics of North America. Ag. Handbook 654. USDA Forest Service.

Campbell, T.A.; Laseter, B.R.; Abiotic Factors Influencing Deer Browsing in West Virginia. Northern Journal of Applied Forestry. 23(1) 2006.

Chipps, S.R., Perry S.A., and W.B. Perry. 1993. Status of sensitive fish species in selected streams in the Monongahela National Forest. West Virginia University, Morgantown, WV.

Chipps, Steve R., William B. Perry, and Sue A. Perry, 1993. Status of Sensitive Fish Species in Selected Streams in the Monongahela National Forest. Prepared for the USDA Forest Service, Monongahela National Forest, Elkins, WV.

Clayton, J. WVDNR. Personal communication re green floater. Elkins, WV.

Coats, Robert, 1999. Forest Hydromythology: Myths, and Misconceptions about Forests, Rainfall and Streamflow. Proceedings of the Seventh Biennial Watershed Management

Conference, Charles W. Slaughter, editor. Water Resources Center Report No. 98, University of California, Davis.

Colinvaux, Paul. 1986. Ecology. New York, John Wiley and Suns. pp. 376-377.

Conant, R. 1975. A Field Guide to Reptiles and Amphibians of Eastern and Central North America. Second Edition, Houghton, Mifflin Company, Boston.

Conner, R.N., C.S. Adkisson. 1975. Effects of ting on the diversity of breeding birds. J. Forestry. 73:781-785.

Costello, C.A., M. Yamasaki, P.J. Pekins, W.B Leak, C.D. Neefus. 2000. Songbird response to group selection harvests and s in a New Hampshire northern hardwood forest. For. Ecol. Manag. 127:41-54.

Cronan, C.S., and Grigal, D.F. 1995. Use of Calcium/Aluminum ratios as indicators of stress in forest ecosystems. J. Environ. Quality. 24:209-226.

Dale, Tom - West Virginia Department of Natural Resources, Cranberry Area Manager. Personal communication on February 16, 2001 about deer, bear and turkey populations.

DeCalesta, D.S. 1994. Effects of white-tailed deer on songbirds within managed forest in Pennsylvania. J. Wildl. Management, 58(4):711-718.

Degraaf, R.M., and D.D. Rudis 1981. Forest habitat for Reptiles and Amphibians of the Northeast. Northeastern Forest Experiment Station. R9-35-9-15-RRWL.

DeGraaf, R.M., and P. Angetstam. 1993. Effects of timber size-class on predation of artificial nests in extensive forest. For. Ecol. Manag. 61:127-136.

DeGraaf, R.M., M. Yamasaki, and W.B. Leak 1992. Management of New England Northern Hardwoods, Spruce-Fir, and Eastern White Pine for Neotropical Migratory Birds. In: Status and management of neotropical migratory birds. USDA FS Gen. Tech Report. RM-229, pp. 331-338.

DeMaynadier, P.G. and M.L. Hunter 1995. The relationship between forest management and amphibian ecology. A review of the North American Literature. Environ. Review 3:230-261.

DeMeo, T.E. 1999. Forest songbird abundance and viability at multiple scales on the Monongahela National Forest, West Virginia. PhD dissertation, West Virginia University, Morgantown. 159 pp.

DeWalle, D.R., et al. 1991. Spatial variations of sapwood chemistry with soil acidity in Appalachian forests. J. Environ. Qual. 20:486-491.

DeWalle, D.R., et al. 1999. Tree-ring cation response to experimental watershed acidification in West Virginia and Maine. J. Environ. Qual. 28:299-309.

Dickson, J.G. 1990 Oak and flowering dogwood fruit production for eastern wild turkeys. IN: W.M. Healy, G.B. Healy, eds. Proc. 6th National Wild Turkey Symposium: National Wild Turkey Federation: 90-95.

District/Forest files: Likelihood of Occurrence (LOO) table for the Desert Branch Project Area, maps of TES species occurrences, spruce content maps, maps of northern flying squirrel and Cheat Mt. Salamander capture sites, district fish survey data, TES survey data.

Donovan, T.M., R.H. Lamberson, A. Kimber, F.R. Thompson, J. Faaborg. 1995. Modeling the effects of habitat fragmentation on source and sink demography of neotropical migrant birds. Conservation Biology. 9(6):1396-1407.

Douglas, James E. and Wayne T. Swank, 1972. Streamflow Modification Through Management of Eastern Forests. Southeastern Forest Experiment Station, USDA Forest Service Research Paper SE-94, 15 pp.

Driscoll, C.T., et al. 2001. Acidic deposition in the northeastern United States: sources and inputs, ecosystem effects, and management strategies. BioScience. 51:180-198.

Drohan, J.R. and W.E. Sharpe. 1997. Long-term changes in forest soil acidity in Pennsylvania, U.S.A. Water, Air, and Soil Pollution 95:299-311.

Duchesne, L., R. Ouimet, and C. Morneau. 2003. Assessment of Sugar Maple health based on basal area growth pattern. Can. J. For. Res. 33:2074-2080.

Duguay, J.P., P.B. Wood, G.W. Miller. 2000. Effects of timber harvests on invertebrate biomass and avian nest success. Wildlife Society Bulletin (in press).

Duncan, S.H., R.E. Bilby, J.W. Ward, and J.T. Heffner, 1987. Transport of Road-surface Sediment Through Ephemeral Stream Channels. Water Resources Bulletin. Vol. 23, No. 1. Feb. 1987. pp. 113-119.

Durkin, P.R. 2003. Syracuse Environmental Research Associates, Inc.; Glyphosate – Human Health and Ecological Risk Assessments Final Report. March 1, 2003.

Durkin, P.R. 2003. Syracuse Environmental Research Associates, Inc.; Triclopyr – Revised Human Health and Ecological Risk Assessments Final Report. March 15, 2003. Eagle, T.C. and M.R. Pelton. 1983. Seasonal nutrition of black bears in the Great Smoky Mountains National Park. *International Conference on Bear Research and Management* 5:94-101.

Element Occurrence Log Sheet. WVDNR Nongame Wildlife & Natural Heritage Program files, Elkins, WV Individual log sheets included: *Apochthonius paucispinosus; Caecidotea simonini; Cambarus nerterius; Gymnocarpum appalachianum; Pseudanophthalmus fuscus; Pseudanophthalmus hadenoecus; Pseudanophthalmus hypertrichosis; Pseudosinella certa; Pseudosinella gisini; Pseudotremia fulgida; Pseudotremia lusciosa; Pseudotremia princeps; Sinella agna; Stygobromus culveri; Stygobromus emarginatus; Stygobromus nanus; Stygobromus parvus; Trichopetalum weyeriensis; Trichopetalum whitei. (19 Jan 2000). Agrostis mertenseii; Aneides aeneus; Caecidotea sinuncus; Fontigens tartarea; Juncus trifidus; Macrotyla hoffmasteri; Pseudanophthalmus montanus; Sphalloplana culveri. (3/14/00)*

Elliott, K.J. and J.D. Knoepp. 2005. The effects of three regeneration harvest methods on plant diversity and soil characteristics in the southern Appalachians. Forest Ecology and Management 211:296-317.

Faaborg, J., M. Brittingham, T. Donovan, and J. Blake. 1992. Habitat fragmentation in the temperate zone: A perspective for managers. In: Status and management of neotropical migratory birds. USDA FS Gen. Tech Report. RM-229, pp. 331-338.

Federal Register, Tuesday, November 15, 1994. Part IV, Department of the Interior, Fish and Wildlife. 50 CFR Part 17. Endangered and Threatened Wildlife and Plants; Animal Candidate Review for Listing as Endangered or Threatened Species; Proposed Rule.

Federer, C.A., J.W. Hornbeck, L.M. Tritton, C.W. Martin, R.S. Pierce, and C.T. Smith. 1989. Long-term depletion of calcium and other nutrients in Eastern US forests. Environmental Management 13(5):593-601.

Fernandez, I.J., et al. 2003. Experimental acidification causes soil base-cation depletion at the Bear Brook Watershed in Maine. Soil Sci. Soc. Am. J. 69:1909-1919.

<u>Field Book for Describing and Sampling Soils</u>, Version 2.0, September 2002, National Soil Survey Center, USDA Natural Resource Conservation Service, Lincoln, NB (ftp://ftp-fc.sc.egov.usda.gov/NSSC/Field_Book/FieldBookVer2.pdf).

Fischer, P. 2007. Personal Communication.

FishBase. http://www.fishbase.org/home.htm

Fitzpatrick, J.F. 1993. Invertebrate Characterization Abstract (Global) *Stygobromus parvus*. WVDNR Nongame Wildlife & Natural Heritage Program files, Elkins, WV

Flebbe, Patricia A., and C. Andrew Dolloff, 1995. Trout Use of Woody Debris and Habitat in Appalachian Wilderness Streams of North Carolina. North American Journal of Fisheries Management 15:579-590, 1995. American Fisheries Society.

Ford, W. Mark; Odom, Richard H.; Hale, Philip E.; Chapman, Brian R. 2000. Standage, stand characteristics, and landform effects on understory herbaceous communities in southern Appalachian cove-hardwoods. Biological Conservation. 93: 237-246.

Green, N.B. and T.K. Pauley. 1987. Amphibians and reptiles in West Virginia. University of Pittsburgh Press in Cooperation with West Virginia Division of Natural Resources. 239 pp.

Grigal, D.F. 2000. Effects of extensive forest management on soil productivity. Forest Ecology and Management 138 (2000) 167-185.

Grimm, J.W., J. Lynch. 2004. Enhanced wet deposition estimates using modeled precipitation inputs. Environmental Monitoring and Assessment. 90: 243-268.

Hall, G.A. 1983. West Virginia Birds. Distribution and Ecology. Special Publication of Carnegie Museum of Natural History, Number 7.

Hallett, Rich A. and Hornbeck, James W. 1997. Foliar and soil nutrient relationships in red oak and white pine forests. Canadian Journal of Forest Research. 27: pp 1233-1244.

Haney, J. C., M. Wilbert, C. De Grood, D. S. Lee, and J. Thomson. 2000. Gauging the ecological capacity of Southern Appalachian reserves: does wilderness matter? Pp. 128-137 in S. F. McCool, D. N. Cole, W. T. Borrie, and J. O'Loughlin (compilers), Wilderness science in a time of change conference – Vol. 2: Wilderness within the context of larger systems, 23-27 May 1999, Missoula, MT. Proceedings RMRS-P-15-VOL-2, Ogden UT: U. S. Department of Agriculture, Forest Service, Rocky Mountain Research Station.

Hansen, A.J., and Urban, D.L. 1993. Avian response to landscape pattern: The role of species' life histories. Landsc. Ecot. 7:163-180.

Hatchell, G.E., C.W. Ralston. 1971. Natural Recovery of Surface Soils Disturbed in Logging. Tree Planters Notes 2292: 5-9.

Head, Shawn, West Virginia Department of Natural Resources. Personal communication on May 12, 2002 about wildlife populations. Deer, bear, turkey, native trout, squirrel and varying hare (snowshoe hare).

Hewlett, J. D. and J. D. Helvey, 1970. Effects of Forest Clear-Felling on the Storm Hydrograph. Water Resources Research 6(3): 768-782.

Holmberg, M., J. Mulder, M. Posch, M. Starr, M. Forsius, M. Johansson, J. Bak, H. Ilvesniemi, and H. Sverdrup. 2001. Critical Loads of Acidity for Forest Soils: Tentative Modifications. Water, Air, and Soil Pollution: Focus 1:91-101.

Holsinger, J. 14 March 2000. Personal communication.

Holsinger, J.R., R.A. Baroody, and D.C. Culver. 1976. The Invertebrate Cave Fauna of West Virginia. Bulletin 7. WV Speleological Survey.

Hornbeck, J. W., 1973. Storm Flow from Hardwood-Forested and Cleared Watersheds in New

Hampshire. Water Resources Research 9(2): 346-354.

Hornbeck, J. W., C. W. Martin, and C. Eagar, 1997. Summary of Water Yield Experiments at

Hubbard Brook Experimental Forest, New Hampshire. Can. J. For. Res. 27: 2043-2052.

Hornbeck, James W. and James N. Kochenderfer, 2000. Linkages Between Forests and Streams: A Perspective in Time. In, Riparian Management in Forests of the Continental Eastern United States. Elon S. Verry, James W. Hornbeck and C. Andrew Dolloff, editors. Lewis Publishers and CRC Press LLC, Boca Raton, Florida. Pages 89-98.

Horsley, S.B. and D.A. Marquis. 1983. Interference by weed and deer with Allegheny hardwood regeneration. Can. J. For. Res. 13:61-69.

Horsley, S.B. S.L. Stout, DeCalesta, D.S.. 2003. White-tailed Deer Impact on the vegetration Dynamics of a Northern Hardwood Forest. Ecological applications. 13(1):98-118.

http://pubs.usgs.gov/acidrain/

Hunter, M.L., Jr. 1990. Wildlife, forests, and forestry. Principles of managing forests for biological diversity. Prentice-Hall, Inc., Englewood Cliffs, NJ.

Integrated Water Quality Monitoring and Assessment Report.

Jenkins, Anthony Blaine (2002). Organic Carbon and Fertility of Forest Soils on the Allegheny Plateau of West Virginia, West Virginia University, [On-line Abstract]. Available: https://etd.wvu.edu/etd/etdDocumentData.jsp?jsp_etdId=2486

Johnson, C.E. 2002. Cation exchange properties of acid forest soils of the northeastern USA. European Journal of Soil Science 53:271-282.

Johnson, D.W. and Todd, D.E. 1990. Nutrient Cycling in Forests of Walker Branch Watershed, Tennessee: Roles of Uptake and Leaching in Causing Soil Changes. J. Environ. Quality. 19:97-104.

Joslin, J.D. and M.H. Wolfe. 1989. Aluminum effects on Northern Red Oak seedling growth in six forest soil horizons. Soil Sci Soc. Am. J. 53: 274-281.

Joslin, J.D., J.M. Kelly, and H. Van Miegroet. 1992. Soil chemistry and nutrition of North American spruce-fir stands: evidence for recent change. J. Environ. Qual. 21:12-30.

Kochenderfer, J. 1977. Area in Skidroads, Truck Roads, and Landing in Central Appalachians. Journal of Forestry. Pg. 507-508.

Kochenderfer, J. and Edwards, P. 1997. Hydrologic Impacts of Logging an Appalachian Watershed Using West Virginia's Best Management Practices. North. J. Appl. For. 14(4) 207-218.

Kochenderfer, J. N., P. J. Edwards, and F. Wood, 1997. Hydrologic Impacts of Logging an Appalachian Watershed Using West Virginia's Best Management Practices. No. J. of Applied Forestry 14(4): 207-218.

Kozlowski, T.T. 1999. Soil compaction and growth of woody plants. Scand. J. For. Res. 14: 596-619, 1999.

Lawrence, G.B. and Huntington, T.G. USGS Report WRIR 98-4267. February 1999. Soil Calcium Depletion Linked to Acid Rain and Forest Growth in the Eastern United States.

Long Robert P., Horsely S.B., Lija P.R. 1997. Impact of Forest Liming on Growth and Crown Vigor of Sugar Maple and Associated Hardwoods. Canadian Journal of Forest Research 27: pp. 1560-1573.

Long, R.P.; Horsley, S.B.; and Lilja, P.R. 1997. Impact of forest liming on growth and crown vigor of sugar maple and associated hardwoods. Can. J. For. Res. 27:1560-1573.

Lorimer, C. G. and A. S. White. 2003. Scale and frequency of natural disturbances in the northeastern US: implications for early successional forest habitats and regional age distributions. *For. Ecol. and Manage.* 185:41-64.

Lull, Howard W. and Kenneth G. Reinhart, 1967. Increasing Water Yield in the Northeast by Management of Forested Watersheds. Northeastern Forest Experiment Station, U.S. Forest Service Research Paper NE-66. 45 pp.

Lynch, J.A., V. Bowersox, J. Grimm. 1996. Trends in Precipitation Chemistry in the United States, 1983-94: An Analysis of the Effects in 1995 of Phase I of the Clean Air Act Amendments of 1990, Title IV. USGS Open-File Report 96-0346.

Lyon, J., and W.E. Sharpe. 1999. An assessment of the Ca:Al ratios of selected Pennsylvania forest soils. Water, Air, and Soil Pollution. 109:53-65.

Mann, I.K., D.W. Johnson, D.C. West, D.W. Cole, J.W. Hornbeck, C.W. Martin, H. Riekerk, C.T. Smith, W.T. Swank, L.M. Tritton and D.H. Van Lear. 1988. Effects of whole-tree and stem only clear-cutting on post-harvest hydrologic losses, nutrient capital, and regrowth. For. Sci. 34(2): 412-428

Markewitz, D., et al. 1998. Three decades of observed soil acidification in the Calhoun Experimental Forest: Has acid rain made a difference? Soil Sci. Soc. Am. J. 62:1428-1439.

Marquis, D.A.; Ernst, R.L.; Stout, S.L. 1992. Prescribing silvicultural treatments in hardwood stands of the Alleghenies (Revised). Gen. Tech. Rep. NE-96. Radnor, PA. USDA For. Serv. 101 p.

Martin, Alexander, Herbert S. Zim, and Arnold L. Nelson, American Wildlife and Plants A Guide to Wildlife Food Habits. The use of trees, shrubs, weeds and herbs by birds and mammals of the United States. Dover Publications, Inc. New York.

Martin, W.H., 1992. Phenology of the timber rattlesnake (*Crotalus horridus*) in an Unglaciated section of the Appalachian Mountains. In Biology of the Pit Vipers, ed. J.A. Campbell and E.D. Brodie Jr., Tyler, Tex.: Selva.

May, C.L.; Gresswell, R.E. 2003. Large wood recruitment and redistribution in headwater streams in the southern Oregon Coast Range, U.S.A. Canadian Journal of Forest Research. 33(8): 1352.

McDade, M.H., F.J. Swanson, W.A. McKee, J.F. Franklin, and J. Van Sickle. 1990. Source Distances For Coarse Woody Debris Entering Small Streams in Western Oregon and Washington. Canadian Journal of Forest Research. 20:326-330.

McShea, W.J. and J.H. Rappole. 1994. Forest understory, white-tailed deer and understory dependent species. <u>In</u> The Science of overabundance: The ecology of unmanaged deer populations. Conservation & Research Center, Smithsonian Institution, Front Royal, VA, Nov. 10 & 11.

Miller, T.O. 1975. Factors influencing black bear habitat selection on Cheat Mountain, West Virginia. Thesis, West Virginia University.

Mitchell, D. 1992. Breeding birds of the Monongahela National Forest. Elkins, WV:

Mizel, N. 2005. The transport and fate of applied limestone sand and palletized lime following timber harvesting. Master's Thesis, The Pennsylvania State University. 64 p.

Moore, Jean-David and Ouimet Rock. 2006. Ten-year effect of dolomitic lime on the nutrition, crown vigor, and growth of sugar maple. Canadian Journal of Forest Research. 36: pp 1834-1841.

Naeem, S., F.S. Chapin III, R. Costanza, P.R. Ehrlich, F.B. Golley, D.U. Hooper, J.H. Lawton, R.V. O'Neill, H.A. Mooney, O.E. Sala, J.J. Symstad, and D. Tilman. 1999. Biodiversity and Ecosystem Functioning: Maintaining Natural Life Support Processes, Issues in Ecology No. 4.

NAPAP. 2005. National Acid Precipitation Assessment Program Report to Congress: An Integrated Assessment; available at http://www.esrl.noaa.gov/csd/AQRS/reports/napapreport05.pdf.

NAPAP. 2005. National Acid Precipitation Assessment Program Report to Congress: An Integrated Assessment; available at http://www.esrl.noaa.gov/csd/AQRS/reports/napapreport05.pdf.

NatureServe. 2002. Species Viability Database Version 2.31. Unpublished database provided by NatureServe, Arlington, VA.

NatureServe. 2006a. NatureServe Explorer account for Appalachian blue violet (*Viola appalachiensis*). NatureServe Version 6.1 (9 November, 2006); available at www.natureserve.org.

NatureServe. 2006a. NatureServe Explorer account for running buffalo clover (*Trifolium stoloniferum*). NatureServe Version 6.1 (9 November, 2006); available at www.natureserve.org.

NatureServe. 2002. Species Viability Database Version 2.31. Unpublished database provided by NatureServe, Arlington, VA.

NatureServe. 2004. NatureServe Explorer: An online encyclopedia of life [web application]. Version 1.8. NatureServe, Arlington, Virginia. Available http://www.natureserve.org/explorer.

NatureServe. 2005. NatureServe Explorer: An online encyclopedia of life [web application]. Version 1.8. NatureServe, Arlington, Virginia. Available http://www.natureserve.org/explorer.

Nichols, J.V. and P.B. Wood. 1993. Effects of two-age timber management on neotropical migrant songbird density and reproductive success. Morgantown, WV: WV Coop. Fish and Wildlife Res. Unit, W.V. University, unpub. rep. on file.

Nuzzo, V. A. 1991. Experimental control of garlic mustard [*Alliaria petiolata* (Bieb.) Cavara & Grande] in northern Illinois using fire, herbicide, and cutting. Natural Areas Journal 11:158-167.

Oettinger, D. 2005. Planting under trees: protecting tree roots from damage is important when creating beds under trees. Landscape Architecture April:56-68.

Pagels, J.F., L.A. Smock, and S.H. Sklarew. 1998. The water shrew, Sorex palustris Richardson (Insectivora: Soricidae), and its habitat in Virginia. Brimleyana. 25:120-134.

Patric and Smith, 1975.

Patric J.H. and D.W. Smith, 1975. Forest management and Nutrient Cycling in Eastern Hardwoods.

Pauley, T. 1997. Personal communication. (with Jo Wargo) Professor, Marshall University.

Pauley, Thomas K. 1994. Surveys of the Cheat Mountain Salamander (*Plethodon nettingi*) in the potential impact area of Corridor H Build and Improved Roadway Alternatives.

Petranka, J.W. 1998. Salamanders of the United States and Canada. Smithsonian Institution Press. Washington and London.

Ramstetter, J. M. Undated. Conservation assessment for three birds orchid (Triphora trianthophora). U. S. Department of Agriculture, Forest Service, Eastern Region, Milwaukee, WI, 76 pp.

Rebinski, John – West Virginia Department of Natural Resources, Fisheries. Personal communication on February 22, 2001 about fishing conditions in North Fork Lower Williams.

Reese, K. P. and J.T. Ratti. 1988. Edge effect: A concept under scrutiny. <u>In</u>: Transcript of 53rd North American Wildlife and Natural Resources Conference, pp. 127-137.

Reger, D.B. West Virginia Geologic Survey: Webster County. Wheeling News Litho. Co.: Wheeling, WV. 1921.

Reinert, H.K., and R.T. Zappalorti. 1998a. Timber rattlesnakes (*Crotalus horridus*) of the Pine Barrens: Their movements patterns and habitat preferences. Copeia 1988: 964-978.

Reinhart, K.G., A.R. Eschner, and G.R. Trimble Jr., 1963. Effect on Streamflow of Four Forest Practices in the Mountains of West Virginia. Research Paper NE-1. Upper Darby, PA: U.S. Dept. of Agriculture, Forest Service, Northeastern Forest Experiment Station. 79 p.

Rengel, Z. (ed). 2003. Handbook of Soil Acidity. Marcel Dekker, Inc.: New York.

Rice, R.M., J.S. Rothacher, and W.F. Megahan. 1972. Erosional consequences of timber harvesting: An appraisal. P. 321-329. in Proceedings Watershed Transition Symposium American Water Resources Association Urbana, IL.

Rich, A.C., D.S. Dobkin, L.J. Niles. 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.

Rieffenberger, J.C., R.J. Anderson, W.S. Brown, K.B. Knight, and J.I. Cromer. 1981. West Virginia Black Bear. WVDNR, Bulletin #9.

Roach, B.A. 1977. A Stocking Guide for Allegheny Hardwoods and Its Use in Controlling Intermediate Cuttings. USDA Forest Service Research Paper NE-373. Upper Darby, PA. USDA For.Serv. 30 p.

Roach, B.A. 1977. A Stocking Guide for Allegheny Hardwoods and Its Use in Controlling Intermediate Cuttings. USDA Forest Service Research Paper NE-373. Upper Darby, PA. USDA For.Serv. 30 p.

Robbins, C. 1979. Effects of forest fragmentation on bird populations. <u>In</u>: DeGraaf, R.M. and Evans, K.E. eds. Management of north-central and northeastern forests for nongame birds. Gen. Tech. Rep. NC-51, St. Paul, MN: U.S. Dept. of Agriculture, Forest Service, North Central Forest Experiment Station, pp. 198-212.

Robbins, C.S. 1988. Forest fragmentation and its effects on birds. IN: J.E. Johnson (Ed.). Managing north central forests for non-timber vales. Society of American Foresters Publication 88-04, Bethesda, Maryland. p 61-65.

Robinson, S.K., F.R. Thompson, T.M. Donovan, D.R. Whitehead, J. Faaborg. 1995. Regional forest fragmentation and the nesting success of migratory birds. Science 267:1987-1990.

Robinson, W.L. and E.G. Bolen. 1984. Wildlife Ecology and Management. MacMillan Publishing Company, pp. 208-226.

Roecker, Stephen. 2007. Unpublished thesis, WVU.

Rosenblatt, D.L., E.J. Heske, S.L. Nelson, D.M. Barber, M.A. Miller, B. MacAllister. 1999. Forest fragments in east-central Illinois: islands of habitat patches for mammals? Am. Mid. Nat. 141:115-123.

Rudnicky and Hunter, 1993 ("Avian Nest Predation in Clearcuts, Forest and Edges in a Forest-Dominated Landscape") caution about extracting data from studies conducted in suburban or agriculture landscapes where predator abundance is high. They suggest an inverse relationship between the distance from forest edges and predation rates.

Rudnicky, T. C. and M. L. Hunter, Jr. 1993. Avian nest predation in clearcuts, forests, and edges in a forest-dominated landscape. Journal Wildlife Management. 57:358-364.

Sargent, B., WVDNR, Natural Heritage - Personal communication regarding Natural Heritage database for ETS occurrences in project areas.

Schnably, Jamie .2003. Soil characterization, classification, and ciomass accumulation in the Otter Creek Wilderness. Master's Thesis, West Virginia University, [On-line Abstract]. Available: https://etd.wvu.edu/etd/etdDocumentData.jsp?jsp_etdId=3215

Schweitzer, D.F. 1991. Invertebrate Characterization Abstract (Global) Pseudanophthalmus hadenoecus. WVDNR Nongame Wildlife & Natural Heritage Program files, Elkins, WV

Schweitzer, D.F. 1991. Invertebrate Characterization Abstract (Global) *Pseudosinella certa*. WVDNR Nongame Wildlife & Natural Heritage Program files, Elkins, WV

Shutts, Lynn M. 1974. Summer Grape. In: USDA Forest Service. Shrubs and Vines for Northeastern Wildlife. Northeastern Forest Experiment Station General Technical Report NE-9. p. 53.

Skyllberg U. 1999. pH and solubility of aluminum in acidic forest soils: a consequence of reactions between organic acidity and aluminum alkalinity. European Journal of Soil Science 50:95-106.

Smith, C.R., D.M. Pence, R.J. O'Conner. 1993. Status of neotropical birds in the Northeast: a preliminary assessment. IN: Status and management of neotropical migratory birds. USDA Forest Service, Rocky Mtn. Res. Stn., Gen. Tech. Rep. RM-229. pp. 172-184.

Smith, Charles, Diana M. Pence, and Raymond J. O'Conner. 1992. Status of Neotropical Migratory Birds in the Northwest: A Preliminary Assessment, September 21-25, Estes Park, Colorado. USDA General Technical Report RM-229.

Smith, R.L. 1988. Is clearcutting hardwoods good for wildlife? <u>In</u>: Proceedings Sixteenth Annual Hardwood Symposium of the Hardwood Research Council. Cashiers, NC, May 15-18.

Sparks, D.L. 2003. Environmental Soil Chemistry. 2nd ed. Academic Press, San Diego.

Sporre, Timothy D., William B. Perry, and Sue A. Perry. 1995. The Status and Habitat of the Kanawha Minnow (*Phenacobius teretulus*) in the Monongahela National Forest, West Virginia. Prepared for the USDA Forest Service, Monongahela National Forest, Elkins, WV.

Stauffer, J.R., Jr., J.M. Boltz, and L.R. White. 1995. The Fishes of West Virginia. Reprinted from Proc. Acad. Nat. Sci. of Phil. 146:1-389

Stihler, C. 1995. Indiana Myotis found to summer in the mountain state. West Virginia Nongame News; Vol. 12, No. 4.

Stihler, C. 1996. A summer bat survey near Big Springs cave on the Fernow Experimental Forest, Tucker County, West Virginia. A report for the challenge cost share agreement between the USDA Forest Service and the WV DNR. Unpublished.

Stihler, C. and J.L. Wallace WVDNR. 2004 Statewide Indiana bat Population.

Stihler, C. WVDNR. Personal communications regarding Allegheny woodrat, Indiana and Virginia big-eared bats, Virginia northern flying squirrel.

Stihler, C.W., J.L. Wallace, E.D. Michael and H. Pawelczyk. 1995. Range of (*Glaucomys sabrinus fuscus*), a federally endangered subspecies of the Northern Flying Squirrel, in West Virginia. In: Proc. WV Acad. Sci; Vol. 67, No. 2,3,4:13-20.

Still, H.R., Jr. and D.P. Baumann. 1990. Wild Turkey Activities in relation to timber types on the Francis Marion National Forest. <u>In Proceedings of the Sixth National Wild Turkey</u>

Symposium, 26 February – March 1, 1990; Charleston, SC.

Stocker, W., and R.F. Jezerinac. Crayfishes of West Virginia. Ohio State University.

Strausbaugh, P.D., and E.L. Core. 1977. Flora of West Virginia. Second Edition. Seneca Books, Inc., Morgantown, WV

Sullivan, T.J., B. Cosby. 2004. Aquatic Critical Load Development for the Monongahela National Forest, West Virginia; Report completed for the Forest, Dec. 2004. (I only have this hard copy in my files.)

Sullivan, T.J., B. Cosby. 2004. Aquatic Critical Load Development for the Monongahela National Forest, West Virginia; Report completed for the Forest, Dec. 2004. (I only have this hard copy in my files.)

Swank, W.T., J.M. Vose and K.J. Elliott, 2001. Long-term Hydrologic and Water Quality Responses Following Commercial Clearcutting of Mixed Hardwoods on a Southern Appalachian Catchment. Forest Ecology and Management 143 (2001), 163-178.

Swift Jr., L.W., 1984. Gravel and Grass Surfacing Reduces Soil Loss from Mountain Roads. Forest Sci., Vol. 30, No. 3, 1984, pp. 657-670.

Temple, S.A. 1984. Predicting impacts of habitat fragmentation on forest birds: a comparison of two models. <u>in</u> Verner, J., M.L. Morrison, and C.J. Ralph, eds. Wildlife 2000: Modeling habitat relationships of terrestrial vertebrates

The Environmental Protection Agency. 2005. Acid Rain Program 2005 Progress Report; available athttp://www.epa.gov/airmarkt/progress/docs/2005report.pdf.

The Nature Conservancy. 1989. Element Stewardship Abstract for Peregrine Falcon. NC Natural Heritage; Dept. of Natural Resources and Community Development; Division of State Parks and Recreation; Box 27687, Raleigh, NC 27611.

The Nature Conservancy. 1992. Element Stewardship Abstract for Rock Vole. WV Natural Heritage; WVDNR; P.O. Box 67; Elkins, WV 26241

The Nature Conservancy. 1992. Element Stewardship Abstract for Eastern Small-Footed Myotis. WV Natural Heritage; WVDNR; P.O. Box 67; Elkins, WV 26241

The Nature Conservancy. 1992. Element Stewardship Abstract for Allegheny Woodrat. WV Natural Heritage; WVDNR; P.O. Box 67; Elkins, WV 26241.

The Nature Conservancy. Element Stewardship Abstracts for: Shale Barren Rockcress, Hellbender, Indiana Bat, Greenbrier Valley Cave Isopod, Blind Cave Millipede, Organ Cave snail, Cheat Valley Cave Isopod, Dry Fork Valley Cave Beetle, Running Buffalo Clover, Darlington's Spurge, Rock Skullcap, Jacob's Ladder, Kate's Mountain Clover.

The Smithsonian Book of North American Mammals. 1999.

Thomas-VanGundy, M. 2005. Assigning fire regimes on the Monongahela National Forest, West Virginia. P. 300 in M. B. Dickinson (ed.) *Fire in Eastern Oak Forests: Delivering Science to Land Managers*. USDA Forest Service Northern Research Station GTR-NRS-P-1.

Thomas-VanGundy, M. 2005. Assigning fire regimes on the Monongahela National Forest, West Virginia. P. 300 in M. B. Dickinson (ed.) *Fire in Eastern Oak Forests:*

Delivering Science to Land Managers. USDA Forest Service Northern Research Station GTR-NRS-P-1.

Thompson, F.R. III, J.R. Probst, and M.G. Raphael. 1992. Silvicultural options for neotropical migratory birds. <u>in</u> Status and management of neotropical migratory birds. Fort Collins, CO: USDA For. Serv. Gen. Tech. Rep. RM-229, pp. 2-184.

Tilghman, N.G. 1989. Impacts of white-tailed deer on forest regeneration in northwestern Pennsylvania. Journal Wildlife Management 53:524-532.

Tolin, W. USDI F&W Service. Personal communication re: the green floater, and the Va. northern flying squirrel.

Trieu, P.L., 1999. Excerpts from M.S. Thesis, Assessment of Physicochemical and Biological Effects of Two Types of Road Surface on Adjacent Streams. M.S. Thesis, The Pennsylvania State University. xi + 102 pp.

- U. S. Fish and Wildlife Service. 1992b. Small whorled pogonia (*Isotria medeoloides*) recovery plan, first revision. Newton Corner, MA, 75 pp.
- U.S. Department of the Interior, Fish & Wildlife Service. 1984. A Recovery Plan for the Ozark Big-eared bat and the Virginia Big-eared bat. USFWL, Region III, Twin Cities, MN. 56 p.
- U.S. Department of the Interior, Fish & Wildlife Service. Agency Draft 1998. Indiana Bat, Revised Recovery Plan. USFWS, Region III, Minneapolis, MN, 61 p.
- U.S. Fish and Wildlife Service, 1982. Habitat Suitability Index Models: Brook Trout. Biological Services Program and Division of Ecological Services, FWS/OBS-82/10.24, September, 1982. 44 pp.
- U.S. Geological Survey. 1999. Soil-calcium depletion linked to acid rain and forest growth in the eastern United States. USGS 98-4267.

US Fish and Wildlife Service. 1992a. Virginia spiraea (*Spiraea virginiana* Britton) recovery plan. Newton Corner, MA, 47 pp.

USDA – National Soil Survey Center (Lincoln, Nebraska) Soil Survey Laboratory Research Database accessible via the internet at http://ssldata.nrcs.usda.gov.

USDA Forest Service., Unpublished. rep. on file.

USDA Forest Service – 3-19-94, Technical Update R9 Sensitive Species List.

USDA Forest Service, 2005. Ecology and Silviculture of Mixed Oak Forests, 2005. Training manual from Oak SILVAH workshop of June 20-24, 2005.

USDA Forest Service, Monongahela National Forest. 2001-2003 Forest Wide Monitoring Report.

USDA Forest Service, Monongahela National Forest. 2001-2003 Forest Wide Monitoring Report.

USDA Forest Service. 1986a. Final Environmental Impact Statement. Land and Resource Management Plan. Monongahela National Forest, Elkins, WV.

USDA Forest Service. 1991. Monitoring and Evaluation Report. Monongahela National Forest, Elkins, WV, pp. 1-9.

USDA Forest Service. 2000. Final Environmental Impact Statement. Fernow Experimental Forest.

- USDA Forest Service. 2002. Monongahela National Forest ecological classification user's guide. Unpublished white paper, U. S. Department of Agriculture, Forest Service, Monongahela National Forest, Elkins, WV, 85 pp.
- USDA Forest Service. 2006a. *Monongahela National Forest Final Environmental Impact Statement for Forest Plan Revision*. USDA Forest Service, Eastern Region, Milwaukee, WI.
- USDA Forest Service. 2006b. *Monongahela National Forest Land and Resource Management Plan*. USDA Forest Service, Eastern Region, Milwaukee, WI.
- USDA Forest Service. Unpublished survey data for running buffalo clover in the Lower Williams project area.

USDA FS – R9 Regional Sensitive Species list. Technical update with database. Signed by B. Jacobs, March, 2000.

USDA Natural Resource Conservation Service. 1992. Webster County Soil Survey.

USDA-FS. 2002b. Forest Service Handbook 2509.18 Soil Management Region 9 supplement of Chapter 2: Soil Quality Monitoring 7 pp.

USDI Fish and Wildlife Service (Region 5 West Virginia Field Office). 2002. Biological Opinion for the Monongahela National Forest. Letter of 05/03/02, 26 pages.

USDI Fish and Wildlife Service. Recovery Plans for: Indiana Bat, Appalachian Northern Flying Squirrels, Cheat Mountain Salamander, Virginia Big-eared Bat, Peregrine Falcon, Eastern Cougar, Running Buffalo Clover, Small-Whorled Pogonia, Virginia Spirea, Shale Barren Rock Cress.

Vertebrate Species of Concern in WV: Green salamander, page 41A; Northern goshawk, page 69A; Bald eagle, page 72A; Peregrine falcon, page 73A; Small-footed myotis, page 91A;

Virginia Big-eared bat, page 95A

Wallace, J.L. 1999 Personal Communication Hibernating Indiana Bats.

Waller, D.M., and W.S. Alverson. 1997. The white-tailed deer: A keystone herbivore. Wildlife Society Bulletin 25:217-226.

Waters, Thomas F., 1995. Sediment in Streams: Sources, Biological Effects and Control. American Fisheries Society Monograph 7.

Weakland, C.A. 2000. Songbird response to diameter-limit and two-aged timber harvesting on an industrial forest in central West Virginia. PhD dissertation, West Virginia University, Morgantown. 161 pp.

West Virginia Department of Environmental Protection web site, 2007. http://www.wvdep.org/Docs/13220_156_with_reach_descrip.pdf

West Virginia Department of Environmental Protection, 2006. 2006 West Virginia

West Virginia Division of Natural Resources (WVNDR). 1988. Mammals of West Virginia, A Field Checklist. WVDNR, Nongame Wildlife Program, Elkins, WV

West Virginia University, Division of Forestry/West Virginia Cooperative Fish and Wildlife Research Unit, Biological Resources Division, USGS. Biomass on Two-aged, Clearcut, and Unharvested Forest Stands in the Monongahela National Forest.

Whitaker, Jr., J.O., and W.J. Hamilton, Jr. 1998. Mammals of the eastern United States, Third Edition. Cornell University Press, Ithaca, NY. 583 pp.

Wilson, D.E. and S. Ruff. 1999. The Smithsonian book of North American mammals. Smithsonian Institution Press, Washington, D.C. 750 pp.

Wunz, G.A. 1989. Timber management and its effects on wild turkey. <u>In Proceedings</u> of the 1989 Penn State Forest Resources Issues Conference: Timber Management and Its Effects on

Wildlife. April 4-6, 1989. Pennsylvania State University, University Park, PA.

WV Department of Natural Resources. West Virginia Big Game Bulletins 2001, 2002, 2003, 2004. Project W-48-R-18 Statewide Wildlife Research.

WVDNR. 1996. Element Stewardship Abstract for the Kanawha Minnow. Elkins, WV 26241

Yanai, R.D., R.P. Phillips, M.A. Arthur, T.G. Siccama, and E.N. Hane. 2005. Spatial and temporal variation in calcium and aluminum in northern hardwood forest floors. Water, Air, and Soil Pollution 160:109-118.

Youngberg, C.T., & A.G.Wollum, II. 1970. Non-leguminous symbiotic nitrogen fixation. In:

Youngberg, C.T. &C.B. Davey, eds. Ppg. 383-395.