



FY2007 Grant Income

Fisheries and Aquaculture

Fisk, A., **J. Peterson**, and M. Rawson. Influence of Land-Based Activities on Riverine Delivery of Contaminants to Estuaries. \$60,176. National Sea Grant College Program.

Jennings, C. A Study of the Ecological Value of Managed Tidal Wetlands Compared to Adjacent Natural Marshes in the ACE Basin, SC. \$51,738. Nemours Wildlife Foundation.

Jennings, C. Ecological Studies of Larval and Juvenile Robust Redhorse Abundance and Distribution in the Oconee River and Habitate Use of Juveniles in a Laboratory Mesocosm. \$154,669. Georgia Power Co..

Jennings, C. Establishment & Operation of the Georgia Cooperative Fish & Wildlife Research Unit. \$20,000. GADNR.

Jennings, C. Fish Community Response to Commercial Operation of the Richard B. Russell Pump-Storage Hydropower Facility on the Savannah River, GA-SC. \$107,920. USDOI.

Nibbelink, N. Simplifying Resource Management in the Southeastern Region of the NPS through Spatial Analysis of Aquatic Populations & Their Threats. \$25,850. USDI NPS (via CESU)

Nibbelink, N., and **D. Peterson.** A Risk Assessment for Tilapia Culture in GA: Potential Impacts on Sport Fisheries. \$53,900. GADNR.

Peterson, D. Population Dynamics and Essential Habitats of Shortnose Sturgeon in the Ogeechee River, GA. \$76,000. GADNR.

Peterson, D. Population Dynamics, Essential Habitats, and Factors Affecting

Abundance of Atlantic Sturgeon in the Altamaha River, GA. \$73,000. GADNR.

Peterson, D. and M. Dahl. PISCES Phase IA. \$25,000 GRA

Peterson, D., and **C. Jennings.** Population Dynamics and Critical Habitat of Shortnose Sturgeon in the Altamaha River, GA. \$69,998. GADNR.

Peterson, J. Science Support for the Upper Coosa River Basin: Phase I. \$65,964. USDOl.

Peterson, J. Water Availability for Ecological Need: A Pilot Study on the Upper Flint River System, Georgia, Dated April 25, 2006. \$65,000. USDOl

Sellers, J., and **J. Shelton.** City of Carnesville/Franklin County, Georgia Watershed Assessment and Protection Plan. \$18,600. City of Carnesville, GA.

Sellers, J., and **J. Shelton.** City of Portal, GA Watershed Assessment and Protection Plan. \$14,894. Carter & Sloope, Inc..

Shelton, J. Ecological Studies of Larval and Juvenile Robust Redhorse Abundance and Distribution in the Oconee River and Habitate Use of Juveniles in a Laboratory Mesocosm. \$15,000. Georgia Power Co..

Shelton, J., and **C. R. Jackson.** Biological Assessment of Barber Creek & Calls Creek. \$7,218. Oconee County Utility Department.

Winn, R. Evaluation of biological effects of chronic exposure to a mixture of polycyclic aromatic hydrocarbons in a fish model. \$40,252. Univ. LeHavre.

Forestry

Bauske, E., **K. Coder,** S. Hammond, **B. Hubbard,** and G. Landry. Compounding the Impact: Train the Trainer Urban Forestry Education. \$64,426. USDA FS.

Bettinger, P. Development & Assessment of a Spatial Harvest Scheduling Model. \$39,796. International Paper Co.

Borders, B. General Research. \$11,000 Various Cash Awards

Cieszewski, C. Analysis and Estimation of Forest Health Condition. \$50,000. USDA FS.

Cieszewski, C. General Research. \$4,000 Various Cash Awards

Clutter, M. The Changing Landscape of Timberland Ownership In The

Southern United States. \$40,000. USDA FS.

Covert, S. Biocontrol Of Annosum Root Disease In Southern Pine Plantations. \$49,997. TIP.

Covert, S. Symptom Expression in Sudden Death Syndrome: How Does Fusarium virguliforme Cause Disease?. \$11,200. Iowa Soybean -Iowa State Univ.

Daniels, R., and L. Schimleck. Wood Quality Consortium. \$39,000. Wood Quality Consortium.

Dean, J. Sirex noctilio: Genetic Approaches to Managing a Newly Introduced Insect. \$66,368. TIP.

Dean, J., and J. Nairn. Assessing The Impact Of Intensive Forest Management Practices On Wood Formation And Quality At The Level Of Gene Expression. \$121,021. USDA FS.

Dickens, D. Enhancing Thinned Slash Pine Volume Production & Product Class Distribution with Competition Control and Fertilization on Flatwoods Spodosols. \$18,000. BASF.

Dickens, D. Loblolly Pine Stand Fertilization At Mid-Rotation To Increase Small & Large Sawtimber Volume. \$10,000. Foundation for Agronomic Research.

Dickens, D. General Research. \$3,000 Various Cash Awards.

Dickens, D., and D. Moorhead. An Investigation Of Old Field Longleaf Growth, Yield, Diameter Distributions, Product Class Distribution, Pine Straw Production, Economics of Management in Georgia. \$40,000. USDA FS.

Dickens, D., and D. Moorhead. Enhancing Thinned Slash Pine Volume Production & Product Class Distribution with Competition Control & Fertilization On Flatwoods Spodosols. \$2,000. Foundation for Agronomic Research.

Greene, D., J. Peterson, and B. Izlar. Recovery Of Small Stems And Forest Residues for Bio-Based Products and Energy. \$67,750. TIP.

Harris, T. Timber Mart - South. \$340,000. Frank W. Norris Foundation.

Hendrick, R. Restoration of Southern Appalachian Pine/Hardwood Ecosystems Impacted by the Southern Pine Beetle (Dendroctonus Frontalis). \$31,576. USDA FS.

Hendrick, R., and R. Teskey. Factors Controlling Annual and Seasonal Water

Use Dynamics in Rhododendron Maximum. \$38,924. USDA FS.

Hubbard, B., and K. Coder. UFSE Programming Support and Enhancements-2006. \$21,000. USDA FS.

Hubbard, B., and K. Coder. UFSe Website Enhancements and Support: Phase II. \$21,000. USDA FS.

Irwin, K. Costa Rica Project Learning Tree. \$1,000. Office of the Vice President for Research, UGA.

Irwin, K., and D. Moorhead. National Forest *A* Syst Web-Based Module. \$35,152. Univ. Tenn..

Irwin, K., and K. Coder. Healthy, Wealthy & Wise Homes: Trees Make the Difference. \$7,071. GFC.

Izlar, B. Sustainable Forestry Initiative Program. \$149,739. GFA.

Izlar, B. Center For. Bus. \$122,400 Various Cash Awards

Kane, M., B. Borders, and C. Cieszewski. Development of Tree Taper Equations and Site Index Models for Loblolly Pine and Other Species. \$240,269. Plantation Management Research Cooperative.

Merkle, S. American Chestnut Restoration Through Biotechnology. \$50,000. Institute for Forest Biotechnology.

Merkle, S. Development of Embryogenic Regeneration Systems for Conservation & Restoration of Eastern & Carolina Hemlocks. \$53,344. USDA FS.

Merkle, S. Scale-Up of Sweetgum Somatic Seedling Production. \$32,357. International Paper Co..

Moorhead, D. General Research. \$24,515 Various Cash Awards

Moorhead, D., and .G. K. Douce. Georgia Cogongrass Awareness Training Initiative. \$12,000. GFC.

Moorhead, D., and K. Irwin. Warnell Forest Education Center Southern Pine Beetle Demonstration. \$9,800. GFC.

Nairn, C. J. Genetic Regulation of Cell Wall Polysaccharide Composition in Southern Pine and Applications for Bioenergy Production. \$47,077. Ga. Res. Alliance.

Nairn, C. J. Summer '07 Temporary Technician Funding. \$5,896. Office of the Vice President for Research, UGA.

Nibbelink, N. A GIS-Based Tool for Species Distribution Modeling. \$4,800. NCASI.

Nibbelink, N. A GIS-Based Tool for Species Distribution Modeling. \$4,000. Univ. of Wyo.

Schimleck, L., and R. Daniels. Rapid Techniques For Screening Wood Properties For Genetic Improvement Of Loblolly Pine. \$24,500. USDA FS.

Siry, J., P. Bettinger, B. Borders, C. Cieszewski, M. Clutter, B. Izlar, D. Markewitz, and R. Teskey. Development of a Forest Carbon Sequestration Protocol for the State of Georgia. \$76,000. TIP.

White, D.E., C. E. Courchene, T. McDonough, **L. Schimleck**, and G. F. Peter. Effects of Specific Gravity & Lignin Content on the Pulp Yield of Loblolly Pine. \$10,300. TIP.

Natural Resources Recreation & Tourism

Green, G. Recreational and Environmental Interests of the American Public: A Cooperative Research Proposal Phase II. \$47,547. USDA FS.

Green, G. To Assist in the Development of a Research Plan that Would Provide Valid Outdoor Recreation Participation Levels for the Appalachian Trail. \$89,020. USDA FS.

Green, G., and C. Miller. To Develop a Recreation Land Planning Framework and Process for GFC's Land Planners. \$31,689. GFC.

Miller, C. Assessing Sustainability in Tropical Resources Management. \$21,552. Virgin Islands Sustainable Farm Institute.

Miller, C. Attitudes and Behaviors of Georgia Boaters Related to Fuel Costs. \$29,150. GADNR.

Water & Soil Resources

Jackson, C. R. Hillslope Flow Routing, Contaminant Transport, and Water Uptake in Zero-Order Watersheds Subject to Intensive Forest Plantation Management: Phase 1 Watershed & Soil Characterization. \$33,000. USDA FS.

Morris, L. General Research. \$12,000 Various Cash Awards

Morris, L., and D. Markewitz. Effects of Tillage on Soil Properties & their Relationship to Early Loblolly Pine Growth-2. \$27,062. TIP.

Rasmussen, T. Southeast Coast Network Groundwater Monitoring Protocol Development and Analysis of Existing Data. \$39,217. USDOJ NPS (via CESU).

Rasmussen, T. , M. B. Beck, and W. Miller. Characterizing Nutrient Releases From Southeastern Piedmont Lake Sediments. \$18,000. USDOJ USGS (via GA Tech).

Wildlife

Carroll, C., R. Cooper, and A. Shenk. Our Shared Forests: Ecuador & Georgia Bird Conservation Partnership. \$12,177. Fundación Maquipucuna.

Carroll, J. Genetic Investment of Individual Northern Bobwhites. \$34,786. Tall Timbers Research Inc..

Carroll, J. Tall Timbers Graduate Assistantships. \$35,649. Tall Timbers Research Inc..

Carroll, J. General Research. \$29,000 Various Cash Awards

Castleberry, S. Continued Evaluation of the Responses of Herpetofauna & Insectivores to Coarse Woody Debris Manipulation. \$65,820. USDA FS.

Castleberry, S. Distribution & Habitat Assessment of Rafinesque's Big-Eared Bat (*Corynorhinus Rafinesquii*) and Southeastern Miotis (*Miotis Austroriparius*) in the Coastal Plain of Georgia. \$56,045. GADNR.

Castleberry, S. Landscape-level Habitat Modeling for Bats on Managed Forest Lands in the Southeastern Coastal Plain. \$38,065. NCASI.

Castleberry, S., and K. Miller. Continued Evaluation of the Effects of Intensive Pine Plantation Management on Wildlife Habitat Quality. \$72,930. NCASI.

Castleberry, S., and M. Mengak. A Protocol for Monitoring Key Largo Cotton Mouse (*Peromyscus gossypinus allapaticola*) Population Status. \$75,000. USDI F&WS (via CESU).

Conroy, M. Technical Support For Adaptive Harvest Management For American Black Ducks. \$51,374. USDOJ USGS.

Conroy, M., R. Cooper, and J. Peterson. A Proposed Approach for Implementing a Region-wide Search for the Ivory-billed Woodpecker with the Objectives of Estimating Occupancy & Related Parameters. \$106,393. USDO I USGS.

Cooper, R. Ecology of Mississippi's Tidal Marsh Birds: Perspectives Gained Through the Application of Surveys, Telemetry, and Ecological Tracers. \$20,000. USDOC NOAA.

Cooper, R. Monitoring & Conservation Biology of Coastal Marsh Birds II. \$14,539. NFWF (via Miss State U).

Cooper, R. Tall Timbers Graduate Assistantships. \$30,800. Tall Timbers Research Inc..

Cooper, R., M. Conroy, N. Nibbelink, and J. Peterson. Population/Habitat Models for the Ivory-Billed Woodpecker. \$18,000. USDI F&WS (via CESU).

Maerz, J. An Investigation of Abnormal Development of Tadpoles in Wastewater Treatment Wetlands. \$10,000. Clayton County Water Authority.

Maerz, J. Assessment of the Effects of Roads and Crabbing Pressures on Diamondback Terrapins. \$103,485. GADNR.

Maerz, J. Collaborative Research: Nonnative Plant Impacts on Larval Amphibian Performance and Community Dynamics. \$94,199. NSF.

Maerz, J. Environmental Gradients & the Strength of Bird Predation on Oak Herbivores. \$2,500. The Environmental Resources Network.

Maerz, J. Evaluation of Current Status of Map Turtles at Historic Sites in Georgia. \$2,500. The Environmental Resources Network.

Maerz, J. Status and Decline of *Desmognathus auriculatus* in Georgia: Causes & Consequences. \$70,132. GADNR.

Maerz, J., and S. Schweitzer. Patterns of Riparian Disturbance & their Influence on Aquatic Turtles in the Lower Flint River Basin, Georgia. \$18,558. GADNR.

Mattsson, B., and **R. Cooper.** Development of a Louisiana Waterthrush Monitoring Protocol for the Eastern Rivers and Mountains Network Vital Signs Monitoring Program. \$75,715. NPS - Cooperative Ecosystem Studies Units.

Mengak, M. Cultural Recognition & Science Education Using the Natural

Inquirer. \$24,750. Cradle of Forestry in America.

Mengak, M. Ecological Understanding as a Guideline for Evaluation of Nonformal Education (EUGENE). \$52,600. USDA FS.

Mengak, M. Movement, Intraspecific Competition, and Natural History of the Armadillo in Southwest Georgia. \$5,500. Berryman Institute East – Miss. State Univ..

Mengak, M. Post-Graduate Internship with Warnell & GA Wildlife Service. \$1,163. Berryman Institute East – Miss State Univ.

Mengak, M., and S. Castleberry. Habitat Characterization in Hurricane Impacted Areas of Hardwood Hammock of The Florida Keys. \$2,940. USDO I F&WS.

Miller, K. General Research. \$37,000 Various Cash Awards

Miller, K., and S. Castleberry. General Research. \$10,000 Various Cash Awards

Miller, K., and R. Warren. Development & Evaluation of Devices Designed to Minimize Deer-Vehicle Collisions. \$15,000. Berryman Institute East – Miss. State Univ.

Schweitzer, S. A Study of the Ecological Value of Managed Tidal Wetlands Compared to Adjacent Natural Marshes in the ACE Basin, SC. \$28,127. Nemours Wildlife-NFWF.

Schweitzer, S. Conservation Genetics of an Introduced Mottled Duck (*Anas ulvigula*) Population. \$2,300. Delta Waterfowl Foundation.

Schweitzer, S. Experimental Restoration of Wiregrass Communities. \$17,858. BASF - The Chemical Co.

Sweeney, J. Co-location Agreement for the Patuxent Wildlife Research Center at the Warnell School of Forestry & Natural Resources in Support of Cooperative Wildlife and Forestry Research 2007-2011. \$37,370. USDO I USGS.

Warren, R., and J. Carroll. A 6-year Study of Diet, Age & Reproductive Responses of Mesomammals to Intensive Predator Removal. \$15,000. Berryman Institute East. – Miss. State Univ.

Warren, R., and K. Miller. Development & Evaluation of Devices Designed to Minimize Deer-Vehicle Collisions. \$123,926. GA Department of Transportation.

Warren, R., G. D'Angelo, and K. Miller. Development & Evaluation of Devices Designed to Minimize Deer-Vehicle Collisions, Phase II. \$298,854. Department of Transportation.

Yabsley, M. Natural History of *Borrelia lonestari*. \$110,550. NIH (via OK State Univ.).