



WARNELL

SCHOOL OF FORESTRY AND NATURAL RESOURCES
THE UNIVERSITY OF GEORGIA

FY2008 Grant Income

Fisheries and Aquaculture

Bringolf, R., Preliminary Assessment of Contaminant Impacts on American Shad Recovery Efforts. \$5,600. Office of the Vice President for Research, UGA.

Bringolf, R., Recirculating Fish Culture System Interdisciplinary Toxicology Program - Small Equipment Grant. \$10,000. Office of the Vice President for Research, UGA.

Grossman, G., Effects of Trout Stocking on Native Non-Game Fishes of Georgia. \$67,650. GA Department of Natural Resources.

Jennings, C., A Study of the Ecological Value of Managed Tidal Wetlands Compared to Adjacent Natural Marshes in the ACE Basin, SC. \$53,255. 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. \$49,303. Georgia Power Company.

Jennings, C., Establishment & Operation of the Georgia Cooperative Fish & Wildlife Research Unit. \$20,000. GA Department of Natural Resources.

Jennings, C., Fish Community Response to Commercial Operation of the Richard B. Russell Pump-Storage Hydropower Facility on the Savannah River, GA-SC. \$89,640. US Department of the Interior.

Jennings, C., Fish Community Response to Commercial Operation of the Richard B. Russell Pump-Storage Hydropower Facility on the Savannah River, GA-SC. \$202,307. US DoI - US Geological Survey.

Jennings, C., Habitat Use & Movement Patterns of Adult Robust Redhorse Released in the Oconee River, GA. \$80,144. US DoI US Geological Survey.

Jennings, C., Habitat Use & Movement Patterns of Adult Robust Redhorse Released in the Oconee River, GA. \$50,000. GA Power - Georgia Power Foundation.

Peterson, D., Population Dynamics and Essential Habitats of Shortnose Sturgeon in the Ogeechee River, GA. \$74,700. GA Department of Natural Resources.

Peterson, D., Population Dynamics, Essential Habitats, and Factors Affecting Abundance of Atlantic Sturgeon in the Altamaha River, GA. \$176,400. GA Department of Natural Resources.

Peterson, D., and **N. Nibbelink**, Population Viability Analysis of Endangered Shortnose Sturgeon (*Acipenser brevirostrum*). \$42,210. US DoD - UT-Battelle, LLC.

Peterson, J., Science Support for the Upper Coosa River Basin: Phase I. \$40,000. US DoI US Geological Survey.

Peterson, J., Water Availability for Ecological Need: A Pilot Study on the Upper Flint River System, Georgia, Dated April 25, 2006. \$70,000. US DoI - US Geological Survey.

Peterson, J., and **C. Rhett Jackson**, Lower Flint River Basin Mussel Habitat Assessment & Monitoring Project. \$117,152. GA Department of Natural Resources.

Sellers, J., D. Gattie, and **J. Shelton**, City of Moultrie, GA Watershed Assessment & Protection Plan. \$21,170. The City of Moultrie, Georgia.

Shelton, J., Franklin County, Georgia: Watershed Assessment & Protection Plan (Expansion). \$63,406. City of Carnesville, GA.

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 Company.

Shelton, J., and **C. Rhett Jackson**, City of Statham Follow-up Biological Assessment. \$8,938. County of Barrow.

Winn, R., Microarray Analyses of Polluted Natural Populations. \$147,644. NIH - University of Miami.

Forestry

Borders, B., and M. Kane, Improving Stand Level Estimates Using New On-the-Ground Sampling Methods in Conjunction with Remotely Sensed Imagery & Satellite Data. \$100,000. Traditional Industries Program for Pulp and Paper.

Covert, S., Symptom Expression in Sudden Death Syndrome: How Does *Fusarium virguliforme* Cause Disease?. \$21,854. Iowa State U - Iowa Soybean Association.

Covert, S., Biocontrol Of Annosum Root Disease In Southern Pine Plantations. \$61,000. Traditional Industries Program for Pulp and Paper.

Covert, S., Biocontrol Of Annosum Root Disease In Southern Pine Plantations. \$50,000. USDA - Forest Service.

Daniels, R., and L. Schimleck, Wood Quality Consortium. \$133,000. Wood Quality Consortium.

Dean, J., Conifer Translational Genomics Network. \$25,000. USDA - Cooperative State Research, Education, and Extension Service (via U California-Davis).

Dean, J., Sirex Noctilio: Genetic Approaches to Managing a Newly Introduced Insect Pest of North American Pines & Conifers. \$36,500. Traditional Industries Program for Pulp and Paper.

Dean, J., and J. Nairn, Assessing The Impact Of Intensive Forest Management Practices On Wood Formation And Quality At The Level Of Gene Expression. \$122,514. USDA Forest Service.

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

Greene, D., The Cost of Log Sorts. \$10,000. Wood Supply Research Institute.

Greene, D., Using Systems that Measure Log Dimensions to Increase Value Recovery During Harvest of Pine Plantations. \$10,000. Plum Creek Timber Company.

Greene, D., Using Systems that Measure Log Dimensions to Increase Value Recovery During Harvest of Pine Plantations. \$33,500. Traditional Industries Program for Pulp and Paper.

Greene, D., and B. Izlar, Harvesting & Merchandising Strategies for Recovery of Forest Biomass from Loblolly & Slash Pine Plantations. \$48,500. Traditional Industries Program for Pulp and Paper.

Harris, T., Timber Mart - South. \$350,000. Frank W. Norris Foundation.

Hendrick, R., Jones Center Graduate Assistantship-Jennifer Falkey. \$5,706. JW Jones Ecological Research Center.

Hendrick, R., Restoration of Southern Appalachian Pine/Hardwood Ecosystems Impacted by the Southern Pine Beetle (*Dendroctonus Frontalis*). \$12,123. USDA - Forest Service.

Hepinstall, J., and **P. Bettinger**, Hurricane Damage Study, Ft. Stewart, GA, Phase I. \$70,018. CH2M Hill, Inc.

Irwin, K., Community Development & Service-Learning in Costa Rica. \$6,073. Office of the Vice President for Research, UGA.

Izlar, B., Sustainable Forestry Initiative Program. \$142,190. Georgia Forestry Association, Inc.

Jackson, B., China Forest Certification/GIS Group Training. \$11,177. USDA - Forest Service.

Jackson, B., Forest Biomass Training. \$17,000. Southern Forest Research Partnership.

Jackson, B., and **D. Markewitz.**, Use of the Ecosystem Services Scorecard to Measure and Monitor Forest Sustainability. \$15,000. USDA University of Tennessee.

Kane, M., **B. Borders**, and **C. Cieszewski**, Development of Tree Taper Equations and Site Index Models for Loblolly Pine and Other Species. \$243,981. Plantation Management Research Cooperative.

Kane, M., **B. Borders**, **C. Cieszewski**, and **M. Clutter**, Refinement in Silvicultural Treatment Response Models for Loblolly & Slash Pine Plantations. \$41,500. Traditional Industries Program for Pulp and Paper.

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

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

Merkle, S., Enhancing American Chestnut Somatic Seedling Production. \$5,800. American Chestnut Foundation.

Moorhead, D., Control & Demonstration Project on Japanese Climbing Fern & Congongrass. \$10,000. USDA - Forest Service.

Moorhead, D., Everglades CISMA Early Detection & Rapid Response Website. \$9,870. US DoI - National Park Service (via CESU).

Schimleck, L., Effects of Specific Gravity & Lignin Content on the Pulp Yield of Loblolly Pine. \$70,000. Traditional Industries Program for Pulp and Paper.

Schimleck, L., and **R. Daniels**, Rapid Techniques For Screening Wood Properties For Genetic Improvement Of Loblolly Pine. \$60,500. USDA - Forest Service.

Siry, J., T. Harris, and **B. Izlar**, Factors Driving Stumpage Prices & Wood Demand in Georgia & Implications for the Competitiveness of Georgia's Forest Industries. \$29,500. Traditional Industries Program for Pulp and Paper.

Sweeney, J., Statistical & Spatial Analysis Equipment. \$26,500. Traditional Industries Program for Pulp and Paper.

Teskey, R., Framework for Assessing the Effects of Elevated Temperature, CO₂ and Water Availability on Tree Growth. \$276,060. United States Department of Energy (via Duke U).

Teskey, R., Student Career Experience Program (SCEP) Work Agreement-Brandon Burke. \$5,000. US Department of Agriculture.

Teskey, R., Student Career Experience Program (SCEP) Work Agreement-Brandon Burke. \$5,000. US Department of Agriculture.

Natural Resources, Recreation & Tourism

Green, G., To Assist in the Development of a Research Plan that Would Provide Valid Outdoor Recreation Participation Levels for the Appalachian Trail. \$7,500. USDA - Forest Service.

Green, G., To Examine Differences Between Hispanic & White Park Users in Relation to their Recreational Activities & Preferences for Public Land Management. \$5,000. Office of the Vice President for Research, UGA.

Green, G., To Examine Differences Between Hispanic & White Park Users in Relation to their Recreational Activities & Preferences for Public Land Management. \$5,000. Office of the Vice President for Research, UGA.

Green, G., To Examine Social, Demographic And Recreation Trends For The State Of Tennessee Based Upon Data From The National Survey On Recreation And The Environment. \$2,512. Tennessee Valley Authority.

Miller, C., An Assessment of Attitudes Toward Florida Black Bear Populations & Management Among Key Stakeholders. \$25,000. Wildlife Foundation of Florida.

Miller, C., Assessing Agricultural Producers' Attitudes Toward Predator Management Practices in the Prairie Pothole Region of the United States. \$50,000. Delta Waterfowl Foundation.

Miller, C., Assessing Sustainability in Tropical Resources Management. \$22,381. Virgin Islands Sustainable Farm Institute.

Miller, C., Assessment of Public Attitudes Toward Black Bear Management in Central Georgia. \$41,022. GA Department of Natural Resources.

Water & Soil Resources

Jackson, C. Rhett, Hillslope Flow Routing, Contaminant Transport, and Water Uptake in Zero-Order Watersheds Subject to Intensive Forest Plantation Management: Phase 1 Watershed & Soil Characterization. \$32,000. USDA - Forest Service.

Markewitz, D., Synthesis of Nutrient Interactions in Secondary Vegetation in Amazonia 05LBA/05-2. \$29,146. NASA - Woods Hole Research Center.

Markewitz, D., P. Bettinger, and **L. Schimleck,** Field Based NIR & 3D Electrical Resistivity for Quantifying Spatial Variability in Soil Processes & Enhancing Precision Forest Management. \$99,000. Traditional Industries Program for Pulp and Paper.

Moore, R., The Influence of Respondent Uncertainty on Stated Values for Public Goods. \$15,000. USDA - Forest Service.

Morris, L., Forest Ecosystem Services: A Curriculum in An Emerging Field. \$6,912. University of Florida.

Rasmussen, T., Southeast Coast Network Stream Flow Discharge Monitoring-Protocol Development & Analysis of Existing Data (CESU). \$44,790. US DoI - National Park Service (via PSAC-CESU).

Wildlife

Carroll, J., Tall Timbers Graduate Assistantships. \$7,140. Tall Timbers Research Inc..

Castleberry, S., Effectiveness of Georgia's Sea Turtle Nest Management Strategies in Maximizing Hatching Success. \$5,089. GA Department of Natural Resources.

Castleberry, S., Jones Graduate Center Assistantship-Anna Derrick. \$5,511. JW Jones Ecological Research Center.

Castleberry, S., Landscape-level Habitat Modeling for Bats on Managed Forest Lands in the Southeastern Coastal Plain. \$38,500. National Council for Air and Stream Improvement.

Castleberry, S., and **K. Miller**, Continued Evaluation of the Effects of Intensive Pine Plantation Management on Wildlife Habitat Quality. \$47,760. National Council for Air and Stream Improvement.

Castleberry, S., and **R. Warren**, Development, Validation & Refinement of Habitat Suitability Models for Selected Wildlife Species on Fort Bragg. \$250,000. Cooperative Ecosystem Studies Units.

Conroy, M., Establishment & Operation of the Georgia Cooperative Fish & Wildlife Research Unit. \$40,000. GA Department of Natural Resources.

Conroy, M., Technical Support For Adaptive Harvest Management For American Black Ducks. \$49,793. US DoI - US Geological Survey.

Cooper, R., Ecology of Mississippi's Tidal Marsh Birds: Perspectives Gained Through the Application of Surveys, Telemetry, and Ecological Tracers. \$20,000. US DoC National Oceanic & Atmospheric Administration.

Cooper, R., Range-wide Surveys of Eastern Painted Buntings: Assessment of 1st Year Results & Evaluation of Survey Design Efficacy. \$26,546. US FWS - US Department of the Interior.

Cooper, R., Tall Timbers Graduate Assistantships. \$16,260. Tall Timbers Research Inc.

Maerz, J., Collaborative Research: Invasion of North Temperate Forest Soils by Exotic Earthworms. \$16,744. National Science Foundation.

Maerz, J., Jones Center Graduate Assistanship- Sean Sterrett. \$16,923. JW Jones Ecological Research Center.

Mattsson, B., R. Cooper, and J. Peterson, Development of a Louisiana Waterthrush Monitoring Protocol for the Eastern Rivers and Mountains Network Vital Signs Monitoring Program. \$82,442. NPS - Cooperative Ecosystem Studies Units.

Mengak, M., Ecological Understanding as a Guideline for Evaluation of Nonformal Education (EUGENE). \$48,000. USDA - Forest Service.

Miller, K., Native Food Plots for Wildlife of the Southeast. \$1,000. University of Arkansas Cooperative Extension Service.

Moore, R., The Influence of Respondent Uncertainty on Stated Values for Public Goods. \$15,000. USDA - Forest Service.

Nairn, J., Genetic Population Structure of Green Turtles (*Chelonia mydas*) Nesting & Foraging in Florida: Phase 1. Control Region Sequencing & SNP/Microsatellite Pilot Study. \$24,542. Caribbean Conservation Corporation.

Nairn, J., Genetic Tools to Identify Loggerhead Turtles of the Northeastern Subpopulation in Mixed Stocks & Forensic Analysis. \$37,730. GA Department of Natural Resources.

Schweitzer, S., A Study of the Ecological Value of Managed Tidal Wetlands Compared to Adjacent Natural Marshes in the ACE Basin, SC. \$29,906. Nemours Wildlife National Fish and Wildlife Foundation.

Schweitzer, S., Gopher Tortoise Burrow Surveys on Kings Bay Navy Base. \$29,975. US DoD -United States Navy.

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. \$37,517. USGS - US Department of the Interior.

Sweeney, J., Piedmont South Atlantic Coast Cooperative Ecosystem Studies Unit Administration. \$10,000. Piedmont-South Atlantic Coast Cooperative Ecosystem Studies Unit.

Warren, R., Jones Graduate Center Assistantship-Michael Brent Howze. \$24,908. JW Jones Ecological Research Center.

Warren, R., and J. Nairn, Cooperative Red-Cockaded Woodpecker Translocation Strategy throughout the Southeast. \$101,050. US DoD Cooperative Ecosystem Studies Units.

Yabsley, M., Novel Canine Ehrlichial Infections & Co-Infections in the United States. \$80,473. IDEXX Corporation.