

LEETOWN SCIENCE CENTER
FISCAL YEAR 2006 PUBLICATIONS LIST

06-001//RT//AE

Watten BJ, Sears RE, Bumgardner RF. 2005. New method for control of biological fouling in pipelines based on elevated partial pressures of carbon dioxide or combustion exhaust gases. in. 2005 International Conference on Coal Science and Technology; 2005 Oct 9-2005 Oct 14; Okinawa, Japan.
Notes: Conference Paper//CD-ROM

06-002//RT

Sibrell PL, Watten BJ. 2005. Utilization of CO₂ to enhance limestone neutralization of acid impacted waters. in. 2005 International Conference on Coal Science and Technology; 2005 Oct 9-2005 Oct 14; Okinawa, Japan.
Notes: Conference Paper//CD-ROM

06-003//SAL

Telesco DJ, Van Manen FT. 2006. Do black bears respond to military weapons training? *Journal of Wildlife Management* 70(1):222-30.
Notes: Article

06-004//NF

Honeyfield DC, Ostrowski CS, Fletcher JW, Mohler JW. 2006. Dietary calcein marking of brook trout, Atlantic salmon, yellow perch, and coho salmon scales. *North American Journal of Fisheries Management* 26(2):431-7.
Notes: Article

06-005//AE

Morrison CL, Lemarie DP, Wood RM, King TL. 2006. Phylogeographic analyses suggest multiple lineages of *Crustallaria asprella* (Percidae: Etheostominae). *Conservation Genetics* 7(1):129-47.
Notes: Article

06-006//FH

Beauchamp KA, El-Matbouli M, Gay M, Georgiados MP, Nehring RB, Hedrick RP. 2006. The effect of cohabitation of *Tubifex tubifex* (Oligochaeta: Tubificidae) populations on infections to *Myxobolus cerebralis* (Myxozoa: Myxobolidae). *Journal of Invertebrate Pathology* 91(1):1-8.
Notes: Article

06-007//AE

Morrison CL, Hovatter K, Eackles M, Spidle AP, King TL. 2005. Molecular identification of cypripedioid orchids in international trade. *Selbyana* 26(1/2):196-216.
Notes: Article

06-008//NF

Johnson JH, Ross RM, McCullough RD, Boyer B. 2005. Diet composition and fish consumption of double-crested cormorants from the Little Galloo Island Colony of eastern Lake Ontario in 2005 [Pages 1-12]. in. *New York State Department of Environmental Conservation 2004 Annual Report//NYSDEC Lake Ontario Annual Report 2005 Volume Section 14*. New York State Department of Environmental Conservation Division of Fish, Wildlife and Marine Resources.
Notes: Report

06-009//NF

Johnson JH, Ross RM, Farquhar JF. 2005. The effects of egg oiling on fish consumption by double-crested cormorants on Little Galloo Island, Lake Ontario in 2005 [Pages 1-7]. in. New York State Department of Environmental Conservation 2004 Annual Report//NYSDEC Lake Ontario Annual Report 2005 Volume Section 15. New York State Department of Environmental Conservation Division of Fish, Wildlife and Marine Resources.

Notes: Report

06-010//NF

Ross RM, Johnson JH, McCullough RD, Boyer B. 2005. Diet composition and fish consumption of double-crested cormorants from the Pigeon and Snake Island colonies of eastern Lake Ontario in 2005 [Pages 1-11]. in. New York State Department of Environmental Conservation 2004 Annual Report//NYSDEC Lake Ontario Annual Report 2005 Volume Section 16. New York State Department of Environmental Conservation Division of Fish, Wildlife and Marine Resources.

Notes: Report

06-011//AE

Perry GML, King TL, St. Cyr J, Valcourt M, Bernatchez L. 2005. Isolation and cross-familial amplification of 41 microsatellites for the brook charr (*Salvelinus fontinalis*). Molecular Ecology Notes 5(2):346-51.

Notes: Article

06-012//TF

Kynard B, Parker E. 2005. Ontogenetic behavior and dispersal of Sacramento River white sturgeon, *Acipenser transmontanus*, with a note on body color. Environmental Biology of Fishes 74(1):19-30.

Notes: Article

06-013//RT

Watten BJ, Sibrell PL, Schwartz MF. 2005. Acid neutralization within limestone sand reactors receiving coal mine drainage. Environmental Pollution 137():295-304.

Notes: Article

06-014//RT

Ebeling JM, Rishel KL, Sibrell PL. 2005. Screening and evaluation of polymers as flocculation aids for the treatment of aquacultural effluents. Aquacultural Engineering 33(4):235-49.

Notes: Article

06-015//FH

Panek FM. 2004. Persistent and emerging diseases of freshwater and marine fishes in the Southeast: implications for fishery management. Proceedings of the Fifty Eight Annual Conference//Southeastern Association of Fish and Wildlife Agencies 58:196-206.

Notes: Article

06-016//SAL//AE

van Manen FT, Young JA , Thatcher CA, Cass WB, Ulrey C. 2005. Habitat models to assist plant protection efforts in Shenandoah National Park, Virginia USA. Natural Areas Journal 25(4):339-50.

Notes: Article

06-017//AE

Pooler PS, Smith DR. 2005. Optimal sampling design for estimating spatial distribution and abundance of a freshwater mussel population. *Journal of North American Benthological Society* 24(3):525-37.
Notes: Article

06-018//AE

Jackson NL, Nordstrom KF, Smith DR. 2005. Influence of waves and horseshoe crab spawning on beach morphology and sediment grain-size characteristics on a sandy estuarine beach. *Sedimentology* 52:1097-108.
Notes: Article

06-019//SAL

Wear BJ, Eastridge R, Clark JD. 2005. Factors affecting settling, survival, and viability of black bears reintroduced to Felsenthal National Wildlife Refuge, Arkansas. *Wildlife Society Bulletin* 33(4):1363-74.
Notes: Article

06-020//SAL

Clark JD, van Manen FT, Pelton MR. 2005. Bait stations, hard mast and black bear population growth in Great Smoky Mountains National Park. *Journal of Wildlife Management* 69(4):1633-40.
Notes: Article

06-021//SAL

Peralvo MF, Cuesta F, van Manen F. 2005. Delineating priority habitat areas for the conservation of Andean bears in northern Ecuador. *Ursus* 16(2):222-33.
Notes: Article

06-022//FH

Cipriano RC, Coll J. 2005. Historical record of *Yersinia ruckeri* and *Aeromonas salmonicida* among sea-run Atlantic salmon (*Salmo salar*) in the Penobscot River. *Bulletin of the European Association of Fish Pathologists* 25(6):280-3.
Notes: Article

06-023//RT

Watten BJ, Sibrell PL. 2006. Comparative performance of fixed-film biological filters: Application of reactor theory. *Aquacultural Engineering* 34(3):198-213.
Notes: Article

06-024//RT//AE

Sibrell PL, Watten BJ, Haines TA, Spaulding BW. 2006. Limestone fluidized bed treatment of acid-impacted water at the Craig Brook National Fish Hatchery, Maine, USA. *Aquacultural Engineering* 34(2):61-71.
Notes: Article

06-025//AE

Arzuaga X, Wassenberg D, Di Giulio R, Elskus A. 2006. The chlorinated AHR ligand 3,3',4,4',5-pentachlorobiphenyl (PCB126) promotes reactive oxygen species (ROS) production during embryonic development in the killifish (*Fundulus heteroclitus*). *Aquatic Toxicology* 76(1):13-23.
Notes: Article

06-026//AE

Jackson NL, Smith DR, Nordstrom KF. 2005. Comparison of sediment grain size characteristics on nourished and un-nourished estuarine beaches and impacts on horseshoe crab habitat, Delaware Bay, New Jersey. *Zeitschrift Fur Geomorphologie* 141(Supplement):31-45.

Notes: Article

06-027//NF

Johnson JH, McKenna JEr, Dropkin DS, Andrews WD. 2005. A novel approach to fitting the Von Bertalanffy relationship to a mixed stock of Atlantic sturgeon harvested off the New Jersey coast. *Northeastern Naturalist* 12(2):195-202.

Notes: Article

06-028//TF

Kynard B, Parker E, Parker T. 2005. Behavior of early life intervals of Klamath River green sturgeon, *Acipenser medirostris*, with a note on body color. *Environmental Biology of Fishes* 72(1):85-97.

Notes: Article

06-029//NF

Barrows FT, Lellis WA. 2006. Effect of diet processing method and ingredient substitution on feed characteristics and survival of larval walleyes *Sander vitreus*. *Journal of the World Aquaculture Society* 37(2):154-60.

Notes: Article

06-030//SAL

Thompson LM, van Manen FT, Schlarbaum SE, DePoy M. 2006. A spatial modeling approach to identify potential butternut restoration sites in Mammoth Cave National Park. *Restoration Ecology* 14 (2):289-96.

Notes: Article

06-031//AE//NF

Shaw KM, King TL, Lellis WA, Eackles MS. 2006. Isolation and characterization of microsatellite loci in *Alasmidonta heterodon* (Bivalvia: Unionidae). *Molecular Ecology Notes* 6:365-7.

Notes: Article

06-032//TF

McCormick SD, Bradshaw D. 2006. Hormonal control of salt and water balance in vertebrates. *General and Comparative Endocrinology* 147:3-8.

Notes: Article

06-033//TF

Bradshaw D, McCormick SD. 2006. Hormonal control of salt and water balance in vertebrates--A symposium. *General and Comparative Endocrinology* 147:1-2.

Notes: Editorial

06-034//TF

Sakamoto T, McCormick SD. 2006. Prolactin and growth hormone in fish osmoregulation. *General and Comparative Endocrinology* 147:24-30.

Notes: Article

06-035//FH

Panek FM. 2006. Disease as a factor in the adaptive management of park aquatic resources. in. People, Places and Parks: Proceedings of the 2005 George Wright Society Conference on Parks, Protected Areas and Cultural Sites.; no date; Hancock Michigan.
Notes: Conference Paper

06-036//NF

Lellis WA. 2006. National Park Service policies: highlights from a workshop on genetically modified organisms (GMOs) in park lands. in: Steiner KC, Carlson JE, eds. Restoration of American Chestnut to Forest Lands - Proceedings of a Conference and Workshop.; 2004 May 4-2004 May 6; North Carolina Arboretum.
Notes: Conference Paper

06-037//NF

Lellis WA. 2006. Potential extent of American chestnut restoration within the National Park system. in: Steiner KC, Carlson JE, eds. Restoration of American Chestnut to Forest Lands - Proceedings of a Conference and Workshop.; 2004 May 4-2004 May 6; North Carolina Arboretum.
Notes: Conference Paper

06-038//AE

Elskus AA, LeBlanc LA, Kim C, Van Beneden R, Mayer G. 2006. Studying toxicity. International Water Power & Dam Construction 58(3):30-2.
Notes: Article

06-039//AE

Elskus AA, Collier TK, Monosson E. 2005. Interactions between lipids and persistent organic pollutants in fish [Pages 119-152]. in: Mommsen TP, Moon TW, editors. Environmental Toxicology. Boston, MA: Elsevier. Biochemistry and Molecular Biology of Fishes ; Volume 6).
Notes: Chapter

06-040//AE

Elskus AA. 2005. The implications of low-affinity AhR for TCDD insensitivity in frogs. Toxicological Sciences 88(1):1-3.
Notes: Article

06-041//AE

Elskus AA. 2004. A. J. Lawrence., Hemingway, K. L. editors. Effects of pollution on fish: molecular effects and population responses. 2003. Blackwell Publishing. Oxford. 342 pages. Reviews in Fish Biology and Fisheries 14(2):295-6.
Notes: Book Review

06-042//FH

Iwanowicz LR, Griffin AR, Cartwright DD, Blazer V. 2006. Mortality and pathology in brown bullheads *Amieurus nebulosus* associated with a spontaneous *Edwardsiella ictaluri* outbreak under tank culture conditions. Diseases of Aquatic Organisms 70(3):219-25.
Notes: Article

06-043//AE

Smith DR. 2006. Survey design for detecting rare freshwater mussels. Journal of North American Benthological Society 25(3):701-11.
Notes: Article

06-044//AE

Smith DR, Millard MJ, Eyer S. 2006. Abundance of adult horseshoe crabs (*Limulus polyphemus*) in Delaware Bay estimated from bay-wide mark-recapture study. Fishery Bulletin 104(3):456-64.
Notes: Article

06-045//AE

King TL, Eackles MS, Young CC. 2006. Microsatellite DNA markers for assessing phylogeographic and population structure in Preble's meadow jumping mice (*Zapus hudsonius preblei*) and cross-amplification among neighbouring taxa. Molecular Ecology Notes 6(3):670-3.
Notes: Article

06-046//AE

Wheelock CE, Eder KJ, Werner I, Huang H, Jones PD, Brummell BF, Elskus AA, Hammock BD. 2005. Individual variability in esterase activity and CYP1A levels in chinook salmon (*Oncorhynchus tshawytscha*) exposed to esfenvalerate and chlorpyrifos. Aquatic Toxicology 74(2):172-92.
Notes: Article

06-047//FH

Bullock GL, Schill WB. 2006. The effect of disinfection strategies on transmission of *Aeromonas salmonicida* and *Yersinia ruckeri* in a recirculating aquaculture system. International Journal of Recirculating Aquaculture 7:1-11.
Notes: Article

06-048//NF

Ward R, Blandon IR, Vega R, Landry AM, Dailey W, Garcia de Leon FJ, Acuna Leal CD, Needleman DS. 2005. Studies in conservation genetics of tarpon (*Megalops atlanticus*) III. Variation across the Gulf of Mexico in the nucleotide sequence of a 12S mitochondrial rRNA gene fragment. Contributions in Marine Science 37:45-59.
Notes: Article

06-049//TF

Rees CB, McCormick SD, Weiming Li. 2005. A non-lethal method to estimate CYP1A expression in laboratory and wild Atlantic salmon (*Salmo salar*). Comparative Biochemistry and Physiology, Part C 141:217-24.
Notes: Article

06-050//TF

Hiroi J, McCormick SD, Ohtani-Kaneko R, Kaneko T. 2005. Functional classification of mitochondrion-rich cells in euryhaline Mozambique tilapia (*Oreochromis mossambicus*) embryos, by means of triple immunofluorescence staining for Na⁺/K⁺-ATPase, Na⁺/K⁺/2Cl⁻ cotransporter and CFTR anion channel. Journal of Experimental Biology 208(11):2023-36.
Notes: Article

06-051//TF

Reinecke M, Bjornsson BT, Dickhoff WW, McCormick SD, Navarro I, Power DM, Gutierrez J. 2005. Growth hormone and insulin-like growth factors in fish: Where we are and where to go. *General and Comparative Endocrinology* 142:20-4.

Notes: Article

06-052//TF

McCormick SD, O'Dea MF, Moeckel AM, Lerner DT, Bjornsson BT. 2005. Endocrine disruption of parr-smolt transformation and seawater tolerance of Atlantic salmon by 4-nonylphenol and 17 β -estradiol. *General and Comparative Endocrinology* 142 :280-8.

Notes: Article

06-053//FH

Hodge DL, Subleski JJ, Reynolds DA, Buschman MD, Schill WB, Burkett MW, Malyguine AM, Young HA. 2006. The proinflammatory cytokine interleukin-18 alters multiple signaling pathways to inhibit natural killer cell death. *Journal of Interferon and Cytokine Research* 25:706-18.

Notes: Article

06-054//FH

Hinck J, Blazer VS, Denslow ND, Gross TS, Echols KR, Davis AP, May TW, Orazio CE, Coyle JJ, Tillitt DE. 2006. Biomonitoring of Environmental Status and Trends (BEST) Program: Environmental contaminants, Health Indicators, and Reproductive Biomarkers in Fish from the Colorado River Basin. *Scientific Investigations Report (U. S. Geological Survey) 2006-5163:119 pages.*

Notes: Report

06-055//FH

Shivappa RB, McAllister PE, Edwards GH, Santi N, Evensen O, Vakharia VN. 2005. Development of a subunit vaccine for infectious pancreatic necrosis virus using a baculovirus insect/larvae system. Pages 165-174 in: Midtlyng PJ, Editor. *Progress in Fish Vaccinology. Developments in Biologicals (Vol. 121); 2003 Apr 9-2003 Apr 11; Bergen, Norway.*

Notes: Conference Paper

06-056//RT

Pfeiffer TJ, Summerfelt ST, Watten BJ. 2006. Comparative performance of CO₂ measuring methods: marine recirculation system applications. Pages 421-426 in. *Proceedings of the Sixth International Conference on Recirculating Aquaculture; 2006 Jul 21-2006 Jul 23; Roanoke, Virginia.*

Notes: Conference Paper//CD-ROM

06-057//RT

Sibrell PL, Montgomery GA, Fletcher JW, Kehler T. 2006. Phosphorus removal from aquacultural effluents with iron-based precipitates produced by the neutralization of acid mine drainage. Pages 319-324 in. *Proceedings of the Sixth International Conference on Recirculating Aquaculture; 2006 Jul 21-2006 Jul 23; Roanoke, Virginia.*

Notes: Conference Paper//CD-ROM

06-058//RT

Ebeling JM, Rishel KL, Sibrell PL. 2006. The screening and evaluation of alum and polymer combinations as coagulation/flocculation aids to treat intensive aquaculture effluents. Pages 177-184 in. Proceedings of the Sixth International Conference on Recirculating Aquaculture; 2006 Jul 21-2006 Jul 23; Roanoke, Virginia. Notes: Conference Paper//CD-ROM

06-059//SAL_

Clark JE, van Manen FT, Clark JD, Eastridge R, Abler W, Davidson M, Hamilton D, Hersey KR, McDonald S, Telesco D. 2005. Distribution of black bears in the southern Coastal Plain and Interior Highlands. Pages 243-253 in. 18th Eastern Black Bear Workshop//What is the "Bearometric" Pressure? Recognizing Black Bear Conservation Issues in Eastern Ecosystems; 2005 Apr 3-2005 Apr 7; Ramada Inn and Conference Center. Tallahassee, Florida: Florida Fish and Wildlife Conservation Commission. Notes: Conference Paper

06-060//SAL

Thatcher CA, van Manen FT, Clark JD. 2006. Identifying suitable sites for Florida panther reintroduction. Journal of Wildlife Management 70(3):752-63. Notes: Article

06-061//FH

Blazer VS, Fournie JW, Wolf JC, Wolfe MJ. 2006. Diagnostic criteria for proliferative hepatic lesions in brown bullhead *Ameiurus nebulosus*. Diseases of Aquatic Organisms 72(1):19-30. Notes: Article

06-062//FH

Baldigo BP, Sloan RJ, Smith SB, Denslow ND, Blazer VS, Gross TS. 2006. Polychlorinated biphenyls, mercury, and potential endocrine disruption in fish from the Hudson River, New York, USA. Aquatic Sciences 68:206-28. Notes: Article

06-063//FH

Hinck JE, Schmitt CJ, Blazer VS, Denslow ND, Bartish TM, Anderson PJ, Coyle JJ, Dethloff GM, Tillitt DE. 2006. Environmental contaminants and biomarker responses in fish from the Columbia River and its tributaries: spatial and temporal trends. Science of the Total Environment 366:549-78. Notes: Article

06-064//NF

Johnson JH, Ross RM, McKenna JE, Lewis GE. 2006. Estimating the size of fish consumed by double-crested cormorants: considerations for better understanding cormorant-fish interactions. Journal of Great Lakes Research 32:91-101. Notes: Article

06-065//TF

Letcher BH, Horton GE, Dubreuil TL, O'Donnell MJ. 2005. A field test of the extent of bias in selection estimates after accounting for emigration. Evolutionary Ecology Research 7:643-50. Notes: Article

06-066//AE//TF

King TL, Eackles MS, Letcher BH. 2005. Microsatellite DNA markers for the study of Atlantic salmon (*Salmo salar*) kinship, population structure, and mixed-fishery analyses. *Molecular Ecology Notes* 5:130-2.
Notes: Article

06-067//TF

Sigourney DB, Horton GE, Dubreuil TL, Varaday AM, Letcher BH. 2005. Electroshocking and PIT tagging of juvenile Atlantic salmon: Are there interactive effects on growth and survival? *North American Journal of Fisheries Management* 25(3):1016-21.
Notes: Article

06-068//TF

Sigourney DB, Letcher BH, Cunjak R. A. 2006. Influence of beaver activity on summer growth and condition of age-2 Atlantic salmon parr. *Transactions of the American Fisheries Society* 135(4):1068-75.
Notes: Article

06-069//TF

Aubin-Horth N, Letcher BH, Hofmann HA. 2005. Interaction of rearing environment and reproductive tactic on gene expression profiles in Atlantic salmon. *Journal of Heredity* 96(3):261-78.
Notes: Article

06-070//AE

Snyder CD, Young JA, Stout BM. 2006. Aquatic habitats of Canaan Valley, West Virginia: diversity and environmental threats. *Northeastern Naturalist* 13(3):333-52.
Notes: Article

06-071//TF

Castro-Santos T. 2006. Modeling the effect of varying swim speeds on fish passage through velocity barriers. *Transactions of the American Fisheries Society* 135(5):1230-7.
Notes: Article

06-072//TF

Castro-Santos T, Haro A. 2005. Biomechanics and fisheries conservation [Pages 469-523]. in: Shadwick RE, Lauder GV, editors. *Fish Biomechanics*. Boston, MA: Academic Press. *Fish Physiology* ; Volume 23).
Notes: Chapter

06-73//TF

Haro A. 2006. Fish protection and downstream migration facilities for eastern North America diadromous species. Pages 85-90 in. *International DWA Symposium on Water Resources Management; 2006 Apr 3-2006 Apr 7; Wasser Berlin Germany*.
Notes: Conference Paper

06-074//TF

Aubin-Horth N, Landry CR, Letcher BH, Hofmann HA. 2005. Alternative life histories shape brain gene expression profiles in males of the same population. *Proceedings of the Royal Society B* 272(1573):1655-62.
Notes: Article

06-075//NF

Brown SB, Honeyfield DC. 2005. Early Mortality Syndrome Workshop//. Ann Arbor, Michigan: Great Lakes Fishery Commission//Research Status Report//.
Notes: Report

06-076//FH

Yang X, Baumann PC. 2006. Biliary PAH metabolites and the hepatosomatic index of brown bullheads from Lake Erie tributaries. *Ecological Indicators* 6(1):567-74.
Notes: article

06-077//NF//FH

Honeyfield DC, Ottinger C, Densmore C, McAllister P. 2005. Effect of thiamine deficiency on disease resistance in lake trout [Pages 1-39]. in. Great Lakes Fishery Commission 2005 Project Completion ReportGreat Lakes Fishery Commission, Ann Arbor, Michigan.
Notes: Report

06-078//NF

Dietrich JP, Morrison BJ, Ebener MP, Honeyfield DC, Noyes AD, Wright GM, LaPan SR. 2006. Identifying potential impediments to the development of a restoration stocking program for deepwater ciscoes [Pages 1-22]. in. Great Lakes Fishery Commission 2006 Project Completion ReportGreat Lakes Fishery Commission, Ann Arbor, Michigan.
Notes: Report