

# CURRICULUM VITAE

Of

BILLY J. HIGGINBOTHAM

Texas A&M AgriLife Extension Service  
Department of Wildlife and Fisheries Sciences  
Texas A&M University System

## I. GENERAL INFORMATION

- A. Name: Billy J. Higginbotham
- B. Title: Professor Emeritus-Wildlife and Fisheries
- C. Department: Texas A&M AgriLife Extension Service and the Department of Wildlife and Fisheries Sciences-Texas A&M University System
- D. Date: January 1, 2019
- E. Initial Appointment: January 21, 1981

## II. EDUCATIONAL TRAINING, EXPERIENCE, SPECIALIZATION and HIGHLIGHTS

### A. Education:

Texas A&M University	B.S.	Fisheries	1977
Tennessee Tech University	M.S.	Biology	1979
Stephen F. Austin State University	Ph.D.	Forestry	1991

### B. Experience:

September 1, 2017 to Present – Professor Emeritus. Department of Wildlife and Fisheries Sciences and the Texas A&M AgriLife Extension Service-The Texas A&M University System.

September 2013-September 2017- Regent's Fellow, Professor and Extension Wildlife and Fisheries Specialist Emeritus. Currently on 70% Texas A&M AgriLife Extension Service appointment. Department of Wildlife and Fisheries Sciences-TAMUS. Overton, Texas.

2007-August 2013 – Regents Fellow, Professor and Extension Wildlife and Fisheries Specialist. Texas A&M AgriLife Extension Service (formerly Texas AgriLife Extension Service and Texas Cooperative Extension) – Department of

Wildlife and Fisheries Sciences – TAMUS. Overton, Texas.

1996-2007 - Professor and Extension Wildlife and Fisheries Specialist. Texas Cooperative Extension (formerly Texas Agricultural Extension Service)- Department of Wildlife and Fisheries Sciences-TAMUS. Overton, Texas.

1991-1996 - Associate Professor and Extension Wildlife and Fisheries Specialist. Texas Agricultural Extension Service-Department of Wildlife and Fisheries and Cooperative Extension Program at PVAMU. TAMUS. Overton, Texas.

1981-1991 - Extension Fisheries Specialist. Texas Agricultural Extension Service - Department of Wildlife and Fisheries Sciences-TAMU and Cooperative Extension Program at PVAMU. TAMUS. Overton, Texas.

October 1979 to January 1981 - Fisheries biologist- Florida Game and Freshwater Fish Commission. West Palm Beach, Florida.

June 1979 to October 1979 - Fisheries biologist- Tennessee Wildlife Resources Agency, Crossville, Tennessee.

### C. Specialization:

#### 1. 4-H and Youth Development

Four innovative 4-H elementary school enrichment multi-media modules have been developed on white-tailed deer, wildlife success stories and endangered species and aquatic science including water quality and conservation. Curricula have been developed on pond management and white-tailed deer management for use by high school math and science teachers with a additional lessons on waterfowl and quail are planned with a long term goal of developing a natural resources course that satisfies both math and science requirements at the high school level.

#### 2. Fisheries Management

Activities included workshops, field days, seminars, short courses, webinars, individual contacts, method demonstrations and result demonstrations. Subject matter addressed included sportfish leasing, pond renovation, water quality, aquatic weed control, fish production in farm ponds, tanks and cages, fish harvest and processing and fish health. Diagnostic services provided on water, aquatic weed and fish specimens.

#### 3. Aquaculture

Commercial fish producers provided with production technology to increase efficiency and to expand into additional species production. Potential producers provided with general information and advised on site-specific requirements regarding soil, water and legal considerations.

#### 4. Wildlife Management

Activities included workshops, field days, seminars, short courses, webinars individual contacts, method demonstrations and result demonstrations. Innovative applied research projects conducted on control and economic impacts of wild pigs and supplemental forage production and management for white-tailed and exotic deer are among the most recent and detailed in the United States.

#### D. Program and Career Highlights

##### 1. Farm Pond Management State Impact Study. 1985-86.

Prior to 1985, the Texas Agricultural Extension Service and the 1890 Cooperative Extension Program-Prairie View A&M University did not formally evaluate program impacts on clientele. However, in 1985 Extension Service-United States Department of Agriculture (ES-USDA) requested that all state Extension programs initiate in-depth analyses of selected Extension programs. This pond management impact study was the first of a series of state impact studies conducted. It examined the specific impacts of 1890 and 1862 institution Extension programming on 121 landowners from 15 counties interested in managing their farm pond resources for increased nutrition, recreation and income. This faculty member conducted the project and surveyed landowners that participated in Extension programming (cooperators) vs. those that did not (non-cooperators). Cooperators working directly with Extension grossed an annual average of \$784 vs. only \$165 for non-cooperators based on value of fish produced. Furthermore, cooperators produced almost twice the yields of fish per surface acre compared to non-cooperators. Other metrics for statements showing statistically higher ratings for cooperators vs. non-cooperators included: 1) Using farm ponds to produce fish for home use is a good idea, 2) farm ponds are a good source of family recreation, 3) county Extension agents, IFPP aides and Extension publications are valuable resources for information on fish production, 4) result demonstrations and Extension meetings provide valuable information on fish production and 5) investing in a family pond resource is a good way to improve family recreation, nutrition and income for the farm family.

##### 2. Hunter Think Tank. 1998.

The Hunter Think Tank was funded by a Renewable Resources Extension Act (RREA) grant. This faculty member obtained funding and provided leadership to organize the event that included invitees from industry, outdoor media, universities, state agencies and non-governmental organizations. Four sessions were conducted to address current trends, what the future of hunting looks like, what are the concerns and where do we go from here? Highly ranked initiatives included 1) availability, access and supply of hunting opportunities, youth and recruitment, government's role and regulations. The results were summarized and distributed to an Executive Committee tasked with forming a work plan to ensure the future of hunting in Texas and beyond.

3. Supplemental Forages for White-tailed Deer Applied Research. 1987 to 2017.

Supplemental forage management for white-tailed deer has been a popular and important management option for Texas landowners, managers and hunters. This faculty member has initiated numerous applied research projects in collaboration with the Texas A&M AgriLife Research - Overton and faculty from Stephen F. Austin State University. Numerous county Extension result demonstrations have been conducted and published results in peer-reviewed journals have established these collaborative efforts as one of the nationally-known sources of deer supplemental forage information available to clientele nationwide.

3. Statewide Largemouth Bass Management Symposia. 2001, 2003, 2005 and 2008.

This faculty member, along with colleague Dr. Michael Masser and TPWD-Texas Freshwater Fisheries Center Director Allen Forshage funded (RREA, TPWD) and collaborated on/co-hosted four statewide 2-day Bass Symposia in Athens (2001, 2008), Conroe (2005) and San Marcos (2003). Examples of impacts from the 2008 conference included: 1) 100% of participants increased their knowledge, they planned to adopt an average of 4.9 new management practices each, they valued the information received at \$2,161 each and assigned a Net Promoter Score for the program of 83% (NPS is a customer satisfaction index and scores over 50% are considered to be good-Long-term Extension program NPS for Ag and Natural Resources programs average 72% NPS to date).

4. School Curricula Enrichment. 1992 to 2017.

This faculty member funded and created four multi-media curriculum enrichment modules designed for specific grade levels (3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup>) to teach elementary students about wildlife conservation and management. Each module consisted of a large display, computer program/CD, printed lessons, videos and testing materials. The modules created were "The White-tailed Deer"- 1992, "Wildlife Success Stories and Endangered Species"-1993, "Something's Fishy"- 1996 and "City Critters"- 2002. A total of 94,911 targeted grade-level students have been reached with this program. Demographically, the sample consisted of Whites (54%), Blacks (17%), Hispanics (27%), Asians (1%) and All Others (1%). Each student was pre-tested prior to the modules' arrival on campus and then post-tested after its 2 week stay on campus. By module, knowledge increases based on pre- and post-test scores were: The White-tailed deer" (71%), Wildlife Success Stories and Endangered Species (43%), Something's Fishy (45%) and City Critters (31%). The success of these modules has led to the duplication of the four module types to include 35 modules in 13 different states.

In addition, this faculty member created two teaching modules for use by high school math and science students. The modules are entitled "Management of the White-tailed Deer" (2009) and "Largemouth Bass Management in Texas Farm Ponds" (2008). The impetus for the creation of these teaching plans was to show students the inter-relationship between and need for both math (data analyses) and science (biology, population dynamics, species life history) skills commonly needed in the fields of wildlife and fisheries management. The electronic format of the lessons were also made available to students attending the summer

leadership camps entitled “Bass Brigades” and “Buckskin Brigades” as resources they could use to teach their new skills and knowledge back home to classmates in their high school math and science classes. Both high school lessons will be offered in an on-line format to enhance access during the 2016-17 school year.

Over 90% of the funding for development and duplication of these elementary and high school curricula enrichment efforts has come from soft money sources in the forms of gifts and grants.

5. Wildlife and Fisheries Management Absentee Landowner Workshop Series. 2004.

In 2003, The Texas Cooperative Extension Service underwent a re-organization creating four regions for facilitating programming across county/district lines. This faculty member secured funding (RREA) and provided primary leadership to conduct a series of 6 multi-county/district education events (2 programs each) that targeted landowners living in the six major metropolitan areas in Texas who primarily owned lands in rural counties. In addition to validating the “new” TCE organization model, the program participants, via post-program surveys found the information disseminated as “fairly useful” (4.1 on a 5.0 Likert scale), placed a value on the information each participant received of \$1,114 (resulting in a \$22.00 : \$1.00 benefit cost ratio) and planned to adopt an average of 4.2 new management practices each. The program also impacted an average landholding of 1,398 acres per participant. The metrics generated by this workshop series are still in use today as a baseline of Extension Wildlife and Fisheries evaluation efforts.

6. Wild Pig Damage Abatement. 1990 to 2017.

This faculty member organized and conducted the first wild pig damage abatement program in Texas in 1990, conducting it collaboratively Stephen F. Austin State University, International Paper Company and three County Extension Agents as a multi-county program. This led to his co-organizing (with colleague Dr. Dale Rollins) the first national wild pig conference held in Texas in 1993. Beginning in 2006, post-program surveys were utilized to measure impacts of wild pig damage abatement programming across the state. From 2006-2015, this faculty member conducted/participated in 174 programs for a total of 15,164 clientele. Survey results included 90% + clientele increased their knowledge of wild pigs and the damage they cause, planned to adopt on average of approximately 3.5 new management practices each, assigned a value to the information received of \$10,898,446 for a benefit : cost ratio of \$26.34 to \$1.00 and resulted in Net Promoter Scores by year ranging from 50% to 74%. Because of these innovative efforts of measuring impacts of wild pig programming, Texas Extension is considered the national leader in measuring the success of Extension-led programming efforts relative to wild pigs and abating the damage they cause, resulting in the adoption of program evaluation by several other state Extension programs.

7. In-depth Evaluation of an Extension Publication’s Impacts. 2008.

This faculty member was the first to measure the in-depth impacts of a Texas

AgriLife Extension Service publication. In 2007, this faculty member authored a publication entitled “Wildlife and Fish Management Calendar for Texas and the Southeast: A Landowner’s Guide”. The format was an undated 12 month calendar with each month featuring a three-quarter page color image of a featured species and included a “Did You Know” and “Management Tip of the Month” for each month. In addition, four appendices detailing deer management, fish management, wild pig damage abatement and supplemental planting recommendations for wildlife by species were included. All first year purchasers (\$7.95 each, n= 404) of the calendar were sent a survey. Survey respondents gained an average of 10.4 new ideas from the calendar and planned to adopt 2.1 new management practices each. Including the calendar purchaser, the visually attractive calendar resulted in an average of 3.2 people implementing practices due to their exposure to each calendar. Survey respondents also reported a savings/earnings directly attributable to the calendar of \$2,321 each for a benefit cost ratio of \$211.50 to \$1.00. The Net Promoter Score assigned to the calendar by survey respondents was 59.3% (NPS values > 50% are considered good).

8. Introduction/Adoption of Net Promoter Score (Customer Satisfaction Index). 2006.

In 2006, this faculty member first adopted and used the Net Promoter Score (NPS is a customer satisfaction index) for measuring the impacts of Extension programs. It was first used in the pilot phase (2006-2007) of the Wild Pig Damage Abatement Project conducted jointly with Wildlife Services and funded in part by the Texas Department of Agriculture. NPS as a customer satisfaction index was introduced in the 1996 book entitled “The Ultimate Question” by Fred Reichald. It is widely used among industry and has been adopted by a number of Fortune 500 companies to measure customer satisfaction with their products/services. Basically, using a 0 to 10 Likert Scale, the question is: “How likely are you to recommend the Texas A&M AgriLife Extension Service as a source of information to family, colleagues and friends”? NPS scores over 50% are considered good while scores < 30% are indicative of problems associated with the program and/or factors impacting program delivery that should be corrected.

As a result of this faculty member’s adoption of NPS to evaluate Extension Wildlife and Fisheries programming, the Texas A&M AgriLife Extension Service has adopted its use as a measure of impact for all agriculture and natural resources programming conducted in Texas. Furthermore, as a result of training provided to colleagues in other states, Extension Wildlife programming at Mississippi State University and all Extension programming at Purdue University have adopted the use of the Net Promoter Score.

9. Wildlife for Lunch webinar Series. 2012 to 2017.

Beginning in 2012, this faculty member initiated a monthly interactive series of one hour lunchtime webinars on various research-based topics of interest to the public in the wildlife management arena. By teaming with the Texas Wildlife Association, webinar presentations have covered a wide variety of topics—from nongame and endangered species to fisheries management and deer management.

The webinars are widely advertised and there has never been a fee associated with participating in the series. While most webinar participants are Texans, additional participants from other states and countries typically logon to participate at [www.Texas-wildlife.org](http://www.Texas-wildlife.org).

10. On-line Warmwater Fisheries Management of Private Waters Course. 2016.

In 2015, this faculty member was approached regarding establishing a warmwater fisheries management course on-line. There was a need to reach a dual audience with the materials: Landowners and anglers interested in continuing education to improve fishing in private impoundments and college students interested in taking the course for 3 or 4 hours class credit. The result was the creation of a 17 lesson course available to the public via Panola College beginning in the Fall of 2016. This course summarizes this faculty member's knowledge and expertise gained over 40 years of practical experience managing fish populations in warmwater private impoundments.

11. Authorship of Popular Press (Magazine) Articles. 1987 to Present.

If there is one piece of advice this faculty member would offer to aspiring wildlife and fisheries biologists, it would be for them to learn how to write and interpret scientific information into a format that could be easily understood by the general public. This also includes sharpening one's photographic skills in order to produce magazine quality images to support articles. To date, this faculty member has authored/ published 154 popular magazine articles (containing several hundred original photos) addressing wildlife and fisheries conservation and management issues. The ability to write successfully in order to increase the general public's understanding of conservation issues has been a major career highlight resulting in "Outstanding Popular Article" awards from the Texas Chapter-Wildlife Society in 2008 and 2010.

12. WHATIZIT? CEA-AG/NR Training. 2016 to 2017.

Once monthly, I send out an image via email of a terrestrial or aquatic organism (plant or animal) or a specific condition impacting an organism and ask the County Extension Agents-Agriculture/Natural Resources to identify it and respond back via email. Responses are summarized and results are reported back to the group after a week or two. This training is unique in that it has not been done in Texas (or perhaps any other Extension program) before. This training approach has three positive benefits: 1) CEAs can respond to a question that mimics what they might receive from clientele in their respective counties, 2) It encourages the CEAs to actually open and read their emails from me and 3) It hones their skills in how to search/research for an answer to the question posed. The "winning" CEA (defined as the one that provides the correct answer in the shortest amount of time) from each month receives 10 copies of my "Wildlife and Fisheries Management Calendar" for their use. The response to this training effort has been very positive from both CEAs and Extension administrators. This training approach could easily be adapted to other agricultural and natural resources disciplines as well as within Extension programs in other states.

### III. POSITION DESCRIPTION

A. Appointment: Professor Emeritus.

B. Description:

1. **Program Development** - Assist county Extension agents and county-level committees identify problems and develop programming to provide solutions in fisheries and wildlife management, aquaculture and 4-H and youth development. Also develop programming on the district, state and national levels.
2. **Agent and Staff Training** - Conduct in-service training for county Extension agents in fisheries and wildlife management, aquaculture and 4-H and youth development. Provide Extension district and headquarters faculty with specialized training (i.e., 4-H school enrichment) as needed.
3. **Extension Activities for Clientele** - Provide advisory assistance by telephone, letter, office calls, e-mails, websites and farm visits. Provide diagnostic services on water, aquatic weed and fish specimens. Conduct short courses, seminars, field days, webinars and method and result demonstrations in fisheries and wildlife management, aquaculture and 4-H and youth development through school curriculum enrichment.
4. **Extension Organization and Program Support** - Develop plan of work addressing county, district and state needs for assistance and problem-solving. Utilize media outlets including news releases, radio programs, popular press and television interviews to provide information. Prepare Extension publications, slide sets, software, etc. and scientific publications. Solicit internal and external sources of grant funds to achieve plan of work objectives. Serve on departmental, agency, college and university committees as requested.
5. **Coordination and Cooperation** - Maintain effective communication with TAMUS administration (Texas AgriLife Extension Service and WFSD-TAMU). Coordinate programming and service through internal linkages in TAMUS and externally with county, state and federal agencies, universities, non-governmental organizations and clientele groups.
6. **Professionalism** - Participate actively in state and national professional organizations by serving on and chairing various committees in the wildlife and fisheries arenas. Serve on graduate student committees at Texas A&M and Stephen F. Austin State Universities. Develop and maintain focus programs with state, regional and national implications and report results through publishing in both the scientific literature and popular outlets. Keep abreast of updates in assigned subject matter areas by reviewing scientific literature.



#### IV. PROFESSIONAL, SCIENTIFIC AND HONOR SOCIETY ACTIVITIES

Maintain active membership/participation in the Wildlife Society, Texas Chapter-Wildlife Society, American Fisheries Society, Texas Chapter-American Fisheries Society, Texas Outdoor Writer's Association, Outdoor Writer's Association of America, Texas Wildlife Association and Association of Natural Resources Extension Professionals Association.

Served on Panola College's Ranch Management Program Advisory Board. 2016.

Served on TPWD's Freshwater Fishing Hall of Fame Selection Committee. 2012- present.

Served as co-chair of Extension Fisheries Specialist Search Committee. 2012-13.

Served on Texas AgriLife Extension Service's Director Search Committee. 2011-12.

Served on the Department of Wildlife and Fisheries Sciences-TAMU's Department Head Search Committee. 2011-12.

Served on International Wild Pig Conference Steering Committee. 2010-2015.

Served on COALS Vice-Chancellor's Awards in Excellence Committee. 2010-2012

Served on COALS-TAMU Promotion and Tenure Committee. 2009-2011.

Served on 2010 National Triennial Extension Wildlife and Fisheries Specialist Program Committee. 2008-2010.

Served on Extension Program review team for Mississippi State University's Department of Wildlife and Fisheries. 2010.

Served as a reviewer for Mississippi State University's Berryman Institute's monograph entitled "Managing Wild Pigs: A Technical Guide". 2010.

Served on 2009 National ESCOP Science Roadmap update team from Texas AgriLife Extension. 2009.

Served on Texas Wildlife Association's Awards Committee. 1996-2008.

Served on National Visibility Committee-American Fisheries Society. 2000-2008.

Served on Freshwater Fisheries Advisory Panel-Texas Parks and Wildlife. 2005-2008.

Served on American Fisheries Society's External Affairs Committee. 2003-2016.

Served on Texas Wildlife Association's Board of Directors. 2005-2016.

Served on the Board of Trustees of the Texas 4-H and Youth Foundation. 1994-97.

Served on Board of Directors (Secretary-Treasurer) of the Texas Chapter-Wildlife Society. 1995-96.

Served on the Board of Directors (Secretary) of the Texas Agricultural Extension Service Specialist's Association. 1995-96.

Served on Board of Directors of the Texas Forestry Association. 1993-1996.

Elected to Board-Member-at-Large position by the Texas Chapter-Wildlife Society. 1995.

Served on Conservation Review Committee. TX Chapter- Wildlife Society. 1994.  
Chairman of the Local Arrangement Committee and Wildlife Committee. Texas Forestry Association's Sportsman's Extravaganza. 1991-94.

Served on the Nominations Committee. TX Chapter-Wildlife Society. 1993.

Chairman of the Farm Pond Committee. TX Chapter-American Fisheries Society. 1986, 1991-93.

Member of the Small Impoundments Committee of the American Fisheries Society. 1986-1990.

Director of the Texas Agricultural Extension Service's Specialist Association. 1985.

#### V. PROFESSIONAL HONORS AND AWARDS (29)

Do-it-Yourself Feral Hog Trapping Strategy. Silver Distinction award-publication. Southern Regional Extension Forestry. Team – Rebecca McPeake, Billy Higginbotham and Carol Guffey. 2017.

Feral Hog Community of Practice. Working Differently Award. “E” Xtension. 2014.

Sam Beasom Conservation Leadership Award. Texas Wildlife Association. 2010.

Silver Award. Educational Package Category. Managing the White-tailed Deer: A Wildlife and Fish Management Curriculum for High School Math and Science Students. Team - Judy Winn, Billy Higginbotham, Bill Watson and Melissa Smith. Agricultural Communications in Excellence (ACE) Critique and Awards Contest. 2010.

Outstanding Popular Article-Managing the White-tailed Deer: A Wildlife and Fish Management Curriculum for High School Math and Science Students. Texas Chapter-The Wildlife Society. 2010.

Outstanding Popular Article-Wildlife and Fish Management Calendar. Texas Chapter-The Wildlife Society. 2008.

Regents Fellow Service Award. Board of Regents, Texas A&M University System. 2007.

Cooperative Extension Award. Texas Forestry Association. 2007.

Association of Natural Resource Extension Professionals (ANREP) “Team Award” (first place) as primary investigator in the Texas Absentee Landowners Workshop Series. 2006.

Texas County Agricultural Extension Agent’s Association (TCAAA) Specialist of the Year Award. 2006.

Association of Natural Resource Extension Professionals (ANREP)“Gold Award” (first place) in Promotional Materials category for “City Critters: Learning About Wildlife in an Urban Environment”. 2005.

Association of Natural Resource Extension Professionals (ANREP)“Silver Award” (second place) in Mixed Materials category for “City Critters: Learning About Wildlife in an Urban Environment”. 2005.

Texas Chapter-The Wildlife Society’s Multi-media Award for “The White-tailed Deer” cd-ROM (with co-awardee Denise Garza). 2001.

American Fisheries Society’s Excellence in Public Outreach Award. 2000.

Brazos Bravo Team Award with Dave Mayes, Judy Winn, Bill Watson and Angel Fattorini. 2000.

Vice Chancellor’s Award in Excellence-Specialist Category. 1999.

Meritorious Service Award.4-H Volunteer Leader’s Association. 1999.

Group Achievement Award for Conservation Education. TAEX Wildlife Specialists. The Wildlife Society. 1998.

Award of Excellence in Agricultural Research and Extension. Deer Farming Team. Build East Texas. 1998.

Conservation Award for "Something's Fishy!" 4-H School Enrichment Module. Texas Parks and Wildlife Department. 1997.

Educator of the Year Award. Texas Chapter-American Fisheries Society. 1996.

Educator of the Year Award. Texas Chapter-The Wildlife Society. 1996.

Educator of the Year Award. Texas Aquaculture Association. 1996.

Outstanding Leadership Award-Extension Service. Professional Agricultural Workers of Texas. 1995.

National Youth and Conservation Award. Quail Unlimited. 1995.

Texas Agricultural Extension Service Team Award for Superior Service. 1994.

1890 Cooperative Extension Program's Outstanding Service Award. Specialist Category.

1991.

New Achiever Award. Prairie View A&M University. 1991.

Outstanding Texas Fisheries Worker Award. Texas Chapter-American Fisheries Society. 1986.

## VI. GRANTS AND CONTRACTS

### A. Higginbotham as Principal Investigator: Grants/Contracts Funded (95 for \$1,156,979)

2016. Wild pig damage abatement via Extension outreach. Texas Department of Agriculture. \$71,132.

2015. Feral hog abatement via outreach. Texas Department of Agriculture. \$22,500.

2015. On-line deer and largemouth bass lessons for high school math and science students. Renewable Resources Extension Act (RREA). \$20,000.

2014. Feral hog abatement via outreach education. Texas Department of Agriculture. \$25,000.

2012. Feral hog abatement via outreach education. Texas Department of Agriculture. \$45,375.

2012. Evaluation of gate size in corral traps to improve wild pig control. Renewable Resources Extension Act (RREA). \$6,500.

2011. Feral hog abatement via outreach education. Texas Department of Agriculture. \$12,000.

2010. Evaluating trap efficiencies for managing feral hog damage. Renewable Resources Extension Act. \$7,500.

2008. Excluding feral hogs from wildlife feeding stations. Renewable Resources Extension Act. \$4,500.

2008. High school science and math natural resources school enrichment lessons. Texas Wildlife Association. \$3,400.

2007-High school science and math natural resources school enrichment lessons. Texas Wildlife Association. \$8,000.

2007-Wildlife and fisheries management calendar. Renewable Resources Extension Act. \$8,000.

2007-Wildlife success stories and endangered species module support. Bexar

County Youth Development Committee. \$625.

2006/07-Feral hog abatement project. Texas Department of Agriculture. \$390,498.

2006-City Critters school enrichment module. Bexar County Youth Development Committee. \$4,500.

2005/06-High school science and math natural resources school enrichment lesson plans. Renewable Resources Extension Act. \$7,500.

2004-City Critters School Enrichment Module. Texas Wildlife Association Foundation. \$19,000.

2003/04-Management of wildlife and fisheries resources on private lands: A workshop series for absentee landowners. Renewable Resources Extension Act. \$17,280.

2002-Water quality improvement in East Texas ponds. Renewable Resources Extension Act. \$8,000.

2002-TCE Faculty in-service training. 4-H wildlife and fisheries school enrichment. August Faculty Conference. \$500.

2002-City Critters! A 4-H school enrichment program. United States Fish and Wildlife Service. \$15,120.

2002-City Critters! A 4-H school enrichment program. International Paper Foundation. \$2,198.

2002-City Critters! A 4-H school enrichment program. Smith County Soil and Water Conservation District. \$2,500.

2002-Use of remote-sensing cameras in wildlife management: A workshop. Renewable Resources Extension Act. \$5,445.

2000-Urban Wildlife! A 4-H school Enrichment Program. Renewable Resources Extension Act.\$6,000.

2000-Important Food Plants for East Texas Wildlife Poster. Texas Parks and Wildlife. \$2,000.

2000-Something's Fishy! A 4-H school Enrichment Program. Alcoa and LCRA. \$21,000.

2000-Wildlife Success Stories and Endangered Species: A 4-H School Enrichment Program. Kurth Foundation. \$24,000.

1999-Wildlife Success Stories and Endangered Species: A 4-H School Enrichment Program. Kronsky Foundation. \$20,000.

1999-Wildlife Success Stories and Endangered Species: A 4-H School Enrichment Program. United States Fish and Wildlife Service. \$13,948.

1999-Wildlife Success Stories and Endangered Species: A 4-H School Enrichment Program. United States Army. \$46,364.

1999-The White-tailed Deer: A 4-H School Enrichment Program. Smith County Soil and Water Conservation District. \$2,625.

1999-Something's Fishy: A 4-H School Enrichment Program. Priddy Foundation. Co-Investigator: Brad Davis. \$17,243.

1999-Something's Fishy: A 4-H School Enrichment Program. TAEX. Co-Investigator: Brad Davis. \$8,000.

1998-Wildlife Success Stories and Endangered Species: A 4-H School Enrichment Program. TAEX. Co-Investigator: Brad Davis. \$8,000.

1998-Wildlife Success Stories and Endangered Species for U.S. Army Bases. United States Army FORSCOM. \$12,980.

1998-Wildlife Success Stories and Endangered Species: A 4-H School Enrichment Program. TAEX. \$5,300.

1998-Something's Fishy! A 4-H School Enrichment Program. Lower Colorado River Authority. \$10,000.

1998-Something's Fishy! A 4-H School Enrichment program. Texas Parks and Wildlife. \$40,000.

1998-Publication of Something's Fishy 4-H School enrichment summary report. Renewable Resources Extension Act (RREA). \$1,000.

1998-White-tailed Deer and Non-Target Wildlife Species Utilization of Supplemental Feed Via Infra-Red Camera Technology. Renewable Resources Extension Act (RREA). \$6,000.

1997-Wildlife Success Stories and Endangered Species for U.S Army Bases. United States Army. \$64,680.

1997-The White-tailed Deer. A 4-H School Enrichment Program. International Paper Foundation. \$5,000.

1997-Something's Fishy! A 4-H School Enrichment Program. United States Fish and Wildlife Service. \$10,000.

1997-Institute of Renewable Natural Resources County Extension Agent Training Via the Natural Resources and Environmental Stewardship Initiative Team. Texas Agricultural Extension Service. \$2,100.

1997-Wildlife Success Stories and Endangered Species. A 4-H School Enrichment Program. Texas A&M Foundation. \$1,000.

1997-Something's Fishy! A 4-H School Enrichment Program. Renewable Resources Extension Act (RREA). \$6,000.

1997-Something's Fishy! Distance Learning/CD-ROM Program. Renewable Resources Extension Act (RREA). \$4,250.

1997-Maintenance of 4-H School Enrichment Programs. Renewable Resources Extension Act (RREA). \$4,000.

1997-Something's Fishy 4-H School Enrichment Module. AmeriCorps. \$8,200.

1997-Wildlife Success Stories and Endangered Species Module. AmeriCorps. \$15,000.

1996-Something's Fishy! A 4-H School Enrichment Program. Cooperative State Research, Education and Extension Service (CSREES). \$10,000.

1996-Wildlife Success Stories and Endangered Species: Distance Learning on the Internet. RREA. \$5,000.

1996-Something's Fishy! A 4-H School Enrichment Program. Renewable Resources Extension Act. \$5,000.

1996-Wildlife Success Stories and Endangered Species: A 4-H School Enrichment Program. RREA. \$5,000.

1996-Something's Fishy! A 4-H School Enrichment Program. Texas Water Resources Institute (TWRI). \$3,500.

1995-Wildlife Success Stories and Endangered Species: A 4-H school Enrichment Program. Cross Timbers Chapter-Quail Unlimited. \$12,000.

1995-Distance Learning Over the Internet. TAEX Natural Resources and Environmental Stewardship Initiative Team. \$3,000.

1995-Wildlife Success Stories and Endangered Species: A 4-H School Enrichment Program. TAEX Initiative Team. \$3,500.

1995-4-H Wildlife School Enrichment Programs. International Paper Foundation. \$5,000.

1995-Wildlife Success Stories and Endangered Species: A 4-H school Enrichment Program. TAEX 4-H. 3,000.

1994-Wildlife Success Stories and Endangered Species: A 4-H School Enrichment Program. Ft. Worth Sportman's Club. \$6,000.

1994-Wildlife Success Stories and Endangered Species: A 4-H School Enrichment Program. Quail Unlimited. \$6,000.

1994-Wildlife Success Stories and Endangered Species: A 4-H School Enrichment Program. National Wild Turkey Federation. \$8,000.

1994-Wildlife Success Stories and Endangered Species: A 4-H School Enrichment Program. International Paper Foundation. \$5,000.

1994-Wildlife Success Stories and Endangered Species: A 4-H School Enrichment Program. Texas Forestry Association. \$3,000.

1994-Wildlife Success Stories and Endangered Species: A 4-H School Enrichment Program. Smith County Soil and Water Conservation District. \$2,000.

1994-Wildlife Success Stories and Endangered Species: A 4-H School Enrichment Program. Renewal Resources Extension Act (RREA). \$10,000.

1994-Wildlife Success Stories and Endangered Species: A 4-H School Enrichment Program. Murski Foundation/WFSD-TAMU. \$2,500.

1994-Sportfish Lake Management Demonstration. Woodvale Club Lake. \$600.

1994-Waterfowl Food Plant Poster. Texas Forestry Association. \$1,250.

1993-Wildlife Success Stories and Endangered Species: A 4-H School Enrichment Program for Elementary Students. Dallas Safari Club. \$1,000.

1993-Wildlife Success Stories and Endangered Species: A 4-H School Enrichment Program for Elementary Students. Funding source: International Paper Foundation. \$5,000.

1993-Natural Resources Education in Public Elementary Schools. Texas Forestry Association. \$2,500.

1993-Natural Resources Education in Public Elementary Schools. Smith County Soil and Water Management District. \$4,000.

1993-Natural Resources Education in Public Elementary Schools. Texas Wildlife Forever, Inc. \$4000.

1993-Natural Resources Education in Public Elementary Schools. Renewable Resources Extension Act (RREA). \$5,625.

1993-J-1 Ranch Integrated Management Demonstration. RREA. Co-Investigators: Rick Hirsch, Joe Lock and Kelly Bell. \$6,050.

1993-McMillan Integrated Forest Management Demonstration. RREA. Co-Investigators: Joe Lock and Kelly Bell. \$8,300.



1993-Woodvale Club Lake Management Demonstration. Woodvale Club Lake. Co-Investigators: Joe Lock and Johnny Cates. \$600.

1992-Stewardship Incentive Program. Wildlife, Fisheries and Forest Recreation. Texas Forest Service. \$25,000.

1992-Important Native Food Plants for East Texas Wildlife poster. Texas Parks and Wildlife (\$1,000) and Texas Forestry Association (\$1,000). \$2,000 total.

1992-Natural Resource-based Economic Development Demonstration Project-Marion County, Texas. 1992. Renewable Resources Extension Act (RREA): ES-USDA. Co-Investigator: Jack Thigpen. \$5,964.

1992-Integrating Natural Resources Management into Existing Livestock Operations in East Texas. 1992. Renewable Resources Extension Act (RREA): ES-USDA. Co-Investigators: Joe Lock, Greg Clary, Sim Reeves and Ben Johnson. \$6,570.

1992-Ambassador College Management Demonstration. Ambassador College. Co-Investigator: Joe Lock. \$800.

1991-Natural Resources Education in Public Elementary Schools. Smith County Soil and Water Management District. \$5,000.

1991-Economics and Management of Leasing Sportfish Ponds. Southern Region Aquaculture Center: ES-USDA. Publication development. \$1,000.

1991-Important Food Plants for White-tailed Deer poster. Texas Parks and Wildlife. \$1,250.

1991-Integrated Natural Resources Management in East Texas. Renewable Resources Extension Act (RREA): ES-USDA. Co-Investigators: Joe Lock, Greg Clary, James Kroll, Richard Hill and Gary Kronrad. \$40,300.

1989-Forage Fish: Life history, Production and Economics. Publication development. Southern Region Aquaculture Center: ES-USDA. \$5000.

1987-88-Grapeland Club Lake Management Demonstration. Grapeland Club Lake. Co-Investigators: Joe Lock. \$800.

1985-Crystal Lake Management Demonstration. Crystal Club Lake. Co-Investigators: Joe Lock and Glenn Huddleston. \$800.

1983-Catfish/Tilapia Cage Demonstration in Tyler County Texas. Lone Star Feed Co. Co-Investigator: J. Lock and Steve Cronin. 3 tons of feed. \$2,000.

1981-Test the Feasibility of a Catfish Marketing Cooperative for Small Pond Catfish Producers. Special Needs Project: ES-USDA. \$112,807.

B. Higginbotham as Co-PI/Investigator: Grants/Contracts Funded (13 for \$2,718,784)

2011.-Formation of a Community of Practice: wild Pigs. eXtension. Principal Investigator: J.C. Cathey. \$60,000.

2011-Feral hog damage abatement to Texas agriculture: A statewide initiative. Texas Department of Agriculture. Co-Principal Investigator: Mike Bodenchuk. \$333,088.

2010-Feral hog damage abatement to Texas agriculture: A statewide initiative. Texas Department of Agriculture. Principal Investigator: Mike Bodenchuk. \$472,547.

2009-10-Sustainable production of cellulosic biomass with attention to natural resource conservation and wildlife stewardship. Texas AgriLife Research Bioenergy Initiative Program. Principal Investigator: Ray Smith \$150,000.

2008-09-Feral hog damage abatement to Texas agriculture: A statewide initiative. Texas Department of Agriculture. Principal Investigator: Mike Bodenchuk. \$1,000,000.

2003-Visualizing Biodiversity. Information Technology in Science Cohort II Team. Principal Investigator: Lee Fitzgerald. Co-Principal Investigators: John Oswald and Andrew Klein. \$53,376.

2000-Aquatic Weed Control CEA Training and Aids. Texas Soil and Water Conservation Board. Principal Investigator: Michael Masser. \$10,000.

2000-Aquatic Weed Control CEA Training and Aids. Texas Department of Agriculture. Principal Investigator: Michael Masser. \$10,000.

1998-Development of an Interactive Computer Program for The White-tailed Deer 4-H School Enrichment Program. Principal Investigator: Denise Garza. \$6,000.

1994-Aquatic and Hunter Education Initiatives. Texas Parks and Wildlife Department and Texas Agriculture Extension Service. Principal Investigator: Don Steinbach. Co-Principal Investigators: Dale Rollins and Will Cohen. \$268,316.

1988-1990-Low/Reduced Input Farming Systems and Educational Program - Whole Farm (Model) Project: Southern Region: ES-USDA. 1 fisheries assistant and 2 county extension agents. Co-Investigators: Nathaniel Keyes, Terry Menges, Lawrence Williams and Garland McIlveen. \$160,000.

1988-1990-Whole Farm Management Project for Small Farmers. Special Needs Project. ES-USDA. Co-Investigators: Nathaniel Keyes, Terry Menges, and Lawrence Williams. \$150,000.

1983-Aquatic Weed Identification posters (2). Pennwalt and Monsanto Chemical Co. Co-Investigator: Jim Davis. \$6,000.

## VII. DOCUMENTATION OF SCHOLARLY ACTIVITIES

### A. Publications

#### 1. Extension Bulletins, Fact Sheets, Leaflets, etc. (25)

Timmons, J., J. Rattan, T. Campbell, D. Long, B. Higginbotham, D. Champion, M. McFarland, N. Dictson, and J.C. Cathey. 2011. Using fences to exclude feral hogs from wildlife feeding stations. Texas AgriLife Extension Service publication L-5533.

Higginbotham, Billy. 2009. Managing the white-tailed deer: A wildlife and fish management curriculum for high school math and science students. Texas AgriLife Extension Service. B-6227. 352 pp.

Higginbotham, Billy, and Melissa Clifton. 2008. Managing largemouth bass in Texas private impoundments: A wildlife and fish management curriculum for high school math and science students. Texas AgriLife Extension Service. B-6206. 324 pp.

Higginbotham, Billy. 2007. Wildlife and fisheries management calendar for Texas and the southeast: A landowner's guide. TCE publication no. B-6197.

Higginbotham, Billy. 2004. City critters: Learning about wildlife in an urban environment. TCE. 10 pp.

Masser, Michael, B.J. Higginbotham and J.T. Davis. 2000. Floating, shoreline and emergent aquatic vegetation. (Poster) TAEX L-5370.

Masser, Michael, B.J. Higginbotham and J.T. Davis. 2000. Submerged aquatic plants and algae. (Poster). TAEX L-4358.

Masser, Michael, Don Steinbach, and Billy Higginbotham. 1999. Catfish ponds for recreation. TAEX fact sheet no.1319.11 pp.

Higginbotham, Billy. 1998. Something's fishy! A 4-H school enrichment program. TAEX. 9 pp.

Higginbotham, Billy. 1996. Important native food plants for waterfowl in East Texas. TAEX poster no. L-5163.

Higginbotham, Billy. 1994. Wildlife success stories and endangered species: A 4-H school enrichment program for elementary students. TAEX. 10pp.

Ramsey, C.R., J. Winn and B.J. Higginbotham. 1993. Wildlife management handbook for county extension agents. TAEX.

Higginbotham, Billy. 1993. The white-tailed deer: a 4-H school enrichment program for elementary schools. TAEX. 10pp.

- Higginbotham, Billy and D.R. Rideout. 1992. Important native food plants for East Texas Wildlife. TAEX poster no. L-5068.
- Higginbotham, Billy and D.R. Rideout. 1991. Important food items for white-tailed deer in East Texas. TAEX poster no. L-5000.
- Higginbotham, Billy and J.C. Kroll. 1991. Supplemental forage management for East Texas white-tailed deer. TAEX fact sheet no. L-2457. 6pp.
- Higginbotham, Billy. 1989. Waterfowl management in East Texas. TAEX fact sheet. 5pp.
- Higginbotham, Billy. 1989. Deer management calendar. TAEX fact sheet no. L-2376. 2pp.
- Higginbotham, Billy. 1987. Oxygen depletions in farm ponds; signs, causes and correction. CEP-PVAMU fact sheet. 2pp.
- Higginbotham, Billy. 1985. Texas farm pond management calendar. TAEX fact sheet. 2pp.
- Higginbotham, Billy and D.W. Steinbach. 1985. Clearing muddy ponds. TAEX fact sheet number L-2161. 2pp.
- Higginbotham, Billy and D.W. Steinbach. 1984. Renovation of farm ponds. TAEX fact sheet number L-2084. 2pp.
- Higginbotham, Billy. 1983. Threadfin shad: Management and culture. TAEX fact sheet number L-2085. 2pp.
- Davis, J.T. and Billy Higginbotham. 1983. Submersed aquatic weeds and algae. TAEX publication poster number D-1219. 1p.
- Davis, J.T. and Billy Higginbotham. 1983. Floating, shoreline and emersed aquatic weeds. TAEX poster number D-1220. 1p.

## 2. Extension Studies, Reports, Monographs, etc.(15)

- Higginbotham, Billy. 2008. Measuring impacts of educational outreach publications: A case history of AgriLife Extension's Wildlife and Fish Management Calendar. Texas AgriLife Extension Service. Final Report. 16 pp.
- Higginbotham, Billy, Greg Clary, Larry Hysmith and Michael Bodenchuk. 2008. Statewide feral hog abatement pilot project: Final report. Texas AgriLife Extension Service. 45 pp.
- Higginbotham, Billy, Greg Clary and Larry Hysmith. 2007. Statewide feral hog abatement project: Annual report. Texas Cooperative Extension. 25 pp.

- Higginbotham, Billy and Andrea Feldpausch. 2005. Testing the TCE regional programming hypotheses: Wildlife management workshops for absentee landowners: Final report. Texas Cooperative Extension. Final Report.31 pp.
- Higginbotham, Billy. 1999. 4-H wildlife and fisheries school enrichment programs. TAEX Proxy Study. 4 pp.
- Higginbotham, Billy. 1999. 4-H wildlife and fisheries 4-H school enrichment programs. 4 Year LREP 1995-99 final report. Texas Agricultural Extension Service.
- Higginbotham, Billy. 1998. 4-H wildlife and fisheries school enrichment programs. TAEX Natural Resources, Environmental and Land Stewardship Initiative Proxy Study. 4 pp.
- Higginbotham, Billy. 1997. 4-H wildlife and fisheries school enrichment programs. TAEX Natural Resources, Environmental and Land Stewardship Initiative Proxy Study. 4 pp.
- Higginbotham, Billy. 1996. 4-H wildlife and fisheries school enrichment programs. TAEX Natural Resources, Environmental and Land Stewardship Initiative Proxy Study. 4 pp.
- Higginbotham, Billy. 1994. Wildlife success stories and endangered species: A 4-H school enrichment program for elementary students. TAEX initiative grant final report. 22pp.
- Higginbotham, Billy. 1990. Low input sustainable agriculture (LISA) demonstrations in wildlife and fisheries. Cooperative Extension Program, PVAMU. 36pp.
- Higginbotham, Billy and W. Tedrick. 1986. A state impact study summary: Farm pond management. TAEX-CEP publication. 7pp.
- Higginbotham, Billy and W. Tedrick. 1986. An impact study: Farm pond management program for small farmers in 15 central and east Texas counties. TAEX-CEP publication. 51pp.
- Higginbotham, Billy. 1984. Feasibility study on establishing small farm catfish marketing cooperatives in Texas. 14pp.
- Higginbotham, Billy. 1984. Guidelines for establishing county catfish production and marketing programs for low-income farmers. 17pp.
3. Special Industry or Commodity Group Reports, Handbooks and Monographs. (9)
- Higginbotham, Billy. 2002. Don't let mistakes hurt supplemental plantings. Temple Inland Forest-Forest Trails Newsletter. Spring 2002 issue.
- Higginbotham, Billy. 1994. Catfish blues: Don't fence me in. p.6 in Common Ground-News from the Southern Region SARE/ACE Program. vol.1(2).

Higginbotham, Billy. 1992. SIP 7: Fisheries habitat enhancement. Stewardship Incentive Program State Plan. FY 1992. Texas Forest Service.

Higginbotham, Billy. 1992. Permanent wildlife plantings in SIP 8: Wildlife habitat enhancement. Stewardship Incentive Program State Plan. FY 1992. Texas Forest Service.

Higginbotham, Billy and M. Johnson. 1990. Sportfish. pp.95-98 in Texas Aquaculture: Status of the Industry. TAEX, Texas Aquaculture Association and TAMU Sea Grant program.

Higginbotham, Billy. 1989. Conservation and management of the white-tailed deer: An East Texas perspective. TAEX. special report. 66pp.

Assessment and corrective management for fish populations in small impoundments. 1986. Billy Higginbotham, editor. A publication of the Texas Chapter-American Fisheries Society. 18pp.

Stocking and management recommendations for Texas farm ponds. 1986. Billy Higginbotham, editor. A publication of the Texas Chapter-American Fisheries Society. 14pp.

Higginbotham, Billy, J.T. Lock, J. Chandler and C. Schattenberg. 1985. Natural resources handbook for East Texas county extension agents. Extension Mimeograph. 17pp.

#### 4. Powerpoints, Slide Sets, Narratives, Tapes (27)

2011-Pond Management during and after drought. Power point.

2010-Feral hogs: The good, the bad and the ugly. Power point.

2009-Using remote-sensing cameras in wildlife management. Power point.

2008-What's your Texas pond fish I.Q.? Power point.

2003-What's your deer economic I.Q.? Slide set/Power point.

2003-Field aging white-tailed deer. Slide set/Power point.

2000-Tale of the Tape. Slide set/Power point.

1999-What's Your Wildlife and Fisheries Pesticide IQ? Slide Set/Power point

1999-Guess Who Is Coming For Dinner? Slide Set/Power point.

1998-What's Your Pesticide IQ? Slide set/Power point

1998-What's Your Deer IQ? Slide set/Power point.

1994-Sportfish Leasing. Slide set/Power point.

1994-4-H School Enrichment Program: Wildlife Success Stories and Endangered Species. Slide set/Power point.

1993-The Future of Hunting. Slide set/Power point.

1993-4-H School Enrichment Program: White-tailed deer. Slide set/Power point.

1992-Feral Hogs: From Field to Table. Slide set/Power point.

1992-Aquatic Weed Control Utilizing Triploid Grass Carp. Slide set/Power point.

1991-The Feral Hog Quiz. Slide set/Power point.

1991-Sporthunting and the Animal Rights Movement. Slide set.

1990-Deer Management in East Texas. Slide set/Power point.

1990-Supplemental Forage Management for White-tailed Deer. Slide set/Power point.

1990-Sportfish Leasing Opportunities. Slide set/Power point.

1984-Aquatic Weed Control. Narrated slide set/Power point.

1984-Catfish Production in Farm Ponds. Narrated slide set.

1982-Sportfish Management in Farm Ponds. Slide set.

#### 5. Video Tapes (1)

1994-4-H School Enrichment Programs for Elementary Students. TAEX Discover Extension segment.

#### 6. Proceedings (20)

Higginbotham, Billy. 1999. Natural resources, environmental and land stewardship: Something's fishy, wildlife success stories and endangered species and the white-tailed deer. pp. 14-15 in 4-H Youth and Development Programs of Excellence 1999. USDA/CSREES. 84 pp.

Higginbotham, Billy. 1999. Getting the word out about feral hogs: An extension perspective. Symposium proceedings of the Texas Animal Health Commission Feral Swine Conference. pp. 31-33. Fort Worth, TX.

Watt, Carson, Billy Higginbotham, Robert Brown and Don Steinbach. 1999. The future of hunting think tank: A strategy to address the issues. Proceedings of the Ninth National Extension Wildlife and Fisheries Conference. Portland, ME. (pp.249-256).

- Higginbotham, Billy. 1996. Managing supplemental deer forages in East Texas. Symposium proceedings of Supplemental Feeding for Deer: Beyond Dogma. pp. 43-49. Kerrville, TX.
- Higginbotham, Billy. 1996. Farm pond management during drought. Proceedings of the 42nd Annual Beef Cattle Short Course-TAMU. pp.86-90. College Station, TX.
- Higginbotham, Billy. 1996. Multi-media programs and new computer technologies: A look at Texas 4-H wildlife school enrichment programs. Pages 38-42 in D. Edge, ed. Educational challenges for the 21st century. Proceedings of the Extension Wildlife and Fisheries Specialists Triennial Meeting. Bellingham, WA.
- Higginbotham, Billy, and G.M. Clary. 1996. Development and management of fishing leases. Pages 90-93 in D. Edge, ed. Educational challenges for the 21st century. Proceedings of the Extension Wildlife and Fisheries Specialists Triennial Meeting. Bellingham, WA.
- Higginbotham, Billy. 1995. Wildlife success stories and endangered species: A 4-H school enrichment program for third graders. Proceedings of the National 4-H Conference on K-3 Youth Education. Columbus, OH.
- Higginbotham, Billy. 1994. Wildlife success stories and endangered species: A 4-H school enrichment program for elementary students. Proc. Third Governor's Conf. on Amer. Hunting Heritage. Little Rock, AR. pp. 229-250.
- Higginbotham, Billy and D.W. Steinbach. 1994. A look at the past, present and future of hunting and wildlife management in America. Proc. Third Governor's Conf. on Amer. Hunting Heritage. Little Rock, AR. pp. 217-227.
- Higginbotham, Billy and M.H. Legg. 1989. Fee fishing: Aquaculture or recreation? Ann. Proc. TX. Fish Farming Conference. 9pp. College Station, TX.
- Higginbotham, Billy. 1988. Facility and equipment needs for Texas fee fishing operations. Ann. Proc. TX. Fish Farming Conference, College Station, TX. 4pp.
- Higginbotham, Billy. 1987. Current fee fishing trends and techniques in Texas Ann. Proc. TX. Fish Farming Conference, College Station, TX. 4pp.
- Higginbotham, Billy. 1987. Management decisions for sportfish ponds. Proc. Harris County, TX. Absentee landowners farm pond management seminar. Houston, TX. 15pp.
- Higginbotham, Billy. 1985. Fish population assessment and interpretation for private waters. Ann. Proc. TX. Fish Farming Conference. College Station, TX. 3pp.
- Higginbotham, Billy. 1985. The role of angler catch records in management decisions for private impoundments. Ann. Proc. TX. Fish Farming Conference. College Station, TX. 2pp.
- Higginbotham, Billy. 1985. Tips on the culture of crappie. Ann. Proc. TX. Fish Farming



Conference. College Station, TX. 2pp.

Higginbotham, Billy and R.L. Noble. 1984. Guidelines for conducting lake surveys. Ann. Proc. TX. Fish Farming Conference. College Station, TX. 9pp.

Higginbotham, Billy, F.M. Rouquette and M.J. Florence. 1983. Filamentous algae control using Tilapia in livestock watering tanks. Ann. Proc. TX. Fish Farming Conference, College Station, TX. 7pp.

Higginbotham, Billy, R.L. Noble and A. Rudd. 1983. Culture techniques for forage species commonly utilized in Texas waters. Ann. Proc. TX. Fish Farming Conference. College Station, TX. 16pp.

#### 7. Computer Software (6)

Higginbotham, Billy, Clark Adams, Angel Fattorini, Diana Foss, Michelle Haggerty and Lou Verner. 2003. City critters: A 4-H school enrichment program. TCE.

Higginbotham, Billy and Angel Fattorini. 2000. Wildlife success stories and endangered species (national version): A 4-H school enrichment program. TAEX.

Garza, Denise, Billy Higginbotham and Angel Fattorini. 2000. The world of the white-tailed deer: A 4-H school enrichment program. TAEX.

Higginbotham, Billy and Angel Fattorini. 1999. Army FORSCOM wildlife success stories and endangered species: A 4-H school enrichment program. TAEX.

Higginbotham, Billy and C. Beals. 1996. Something's fishy: A 4-H school enrichment program. TAEX.

Higginbotham, Billy, C. Beals, L. Adams, D. Lipe, J. Winn and A. Fattorini. 1993. Wildlife success stories and endangered species (Texas version). A 4-H school enrichment program. TAEX.

#### 7. Peer-Reviewed Articles and Publications (29)

Kubecka, Jana, Robert Strong, Billy Higginbotham, Robert Briers and Paul Pope. 2016. A comprehensive nine year case history of Texas A&M AgriLife Extension's educational impacts on wild pig damage abatement in Texas. Pages *in* R.M Timm, editor. Proceedings of the 27<sup>th</sup> Vertebrate Pest Management Conference. Newport Beach, California (in press).

Higginbotham, Billy. 2014. The art and (some) science of trapping wild pigs: From traps to gates to triggers and more! Pages 258-268 *in* R.M. Timm and J.M. O'Brien, editors. Proceedings of the 26th Vertebrate Pest Management Conference. Waikaloa, Hawaii.

Higginbotham, Billy, and Michael J. Bodenchuk. 2014. Wild pig damage abatement in

- Texas: An integrated strategy of landowner education and direct control. Pages 243-257 in R.M. Timm and J.M. O'Brien, editors. Proceedings of the 26th Vertebrate Pest Management Conference. Waikaloa, Hawaii.
- Mellish, Janell, Aaron Sumrall, Tyler Campbell, Bret Collier, William H. Neill, Roel R. Lopez, and Billy Higginbotham. 2014. Simulating potential population growth of Wild Pig (*Sus scrofa*) in Texas. *Southeastern Naturalist* 13(2): 367-376.
- Metcalf, Eric M., Israel D. Parker, Roel R. Lopez, Billy Higginbotham, Donald S. Davis and Julius R. Gersbach. 2014. Impact of gate width of corral traps in potential wild pig trapping success. *Wildlife Society Bulletin*. Vol. 38 (4): 892-895.
- Higginbotham, Billy. 2012. Abating wild pig damage using best management practices. Pages 13-16 in R.M. Timm, editor. Proceedings of the 25th Vertebrate Pest Management Conference. Monterey, California.
- Hamrick, Bill, Tyler Campbell, Billy Higginbotham, and Steven Lapidge. 2011. Managing an invasion: Effective measures to control wild pigs. *Wildlife Professional*: Vol. 5 (2). pp. 41-42.
- Rattan, Justin M., Billy J. Higginbotham, David B. Long and Tyler A. Campbell. 2010. Exclusion fencing for feral hogs at white-tailed deer feeders. *Texas Journal of Agriculture and Natural Resource* 23:83-89.
- Rollins, D.R., Billy J. Higginbotham, Kenneth A. Cearley, and R. Neal Wilkins. 2007. Appreciating feral hogs: Extension education for diverse stakeholders in Texas. Berryman Institute special publication. *Human-Wildlife Conflicts* 1(2):169-176.
- Feldpausch, Andrea, and Billy J. Higginbotham. 2006. Texas absentee landowners managing for wildlife: Their goals, interests and educational needs. In Robert Timm, ed. Proceedings of the 11<sup>th</sup> Triennial Extension Wildlife and Fisheries Specialist's Conference. cd-ROM.
- Higginbotham, Billy J., Michael P. Masser, and Peter Woods. 2006. Bass management symposia: Managing ponds and lakes for better fishing. In Robert Timm, ed. Proceedings of the 11<sup>th</sup> Triennial Extension Wildlife and Fisheries Specialist's Conference. cd-ROM.
- Adams, C.E., Billy J. Higginbotham, Dale R. Rollins, Richard B. Taylor, Raymond Skiles, Mark Mapston, and Saidor Turman. 2005. Regional perspectives and opportunities for feral hog management in Texas. *Wildlife Society Bulletin* 33:1312-1320.
- Adams, Clark E., Robert D. Brown, and Billy J. Higginbotham. 2004. Developing a strategic plan for future hunting participation. *Wildlife Society Bulletin* 32(4): 1156-1165.
- Higginbotham, Billy, R.D. Brown, and C.E. Adams. 2003. The future of hunting in Texas I: Think tank. In J. Miller, ed. Proc. Of the National Symposium on Sustainable Natural Resources. Mississippi State, MS.

- R.D. Brown, Billy Higginbotham, and C.E. Adams. 2003. The future of hunting in Texas II. *In* J. Miller, ed. Proc. Of the National Symposium on Sustainable Natural Resources. Mississippi State. MS.
- C.E. Adams, R.D. Brown, and Billy Higginbotham. 2003. The future of hunting in Texas III: An overview of 20 years of Research. *In* J. Miller, ed. Proc. of the National Symposium on Sustainable Natural Resources. Mississippi State. MS.
- Higginbotham, Billy. 2001. 4-H multi-media modules: Educating the public on important water issues. Proceedings of the American Water Resources Association and University Council on Water Resources Decision Support Systems for Water Resources Management Conference. pp. 91-94.
- Santos, J. Reynaldo, and Billy J. Higginbotham. 2000. Keep it simple...Use a supertable. *Journal of Extension*. Vol. 38 (1):1-5.
- Rollins, Dale R., and Billy Higginbotham. 1997. Extension education in Texas: Deer dilemmas and opportunities on private lands. *Wildlife Soc. Bull.* 25(2):371-377.
- Higginbotham, Billy. 1997. Wildlife in the classroom: An overview of Texas 4-H wildlife school enrichment programs. *Trans. 62nd North Am. Wildl. and Nat. Res. Conf.* pp.57-65.
- Higginbotham, Billy. 1995. Managing ryegrass for white-tailed deer. Proc. of the Annual Ryegrass Symposium. TAES tech. rept. no. MP-1770. pp. 94-99.
- Higginbotham, Billy J. and G.M. Clary. 1994. Private sportfish leasing opportunities: Determining profitability. *Ann. Proc. of Texas Chapter - American Fisheries Society.* 16:17-22.
- Higginbotham, Billy J. and J.C. Kroll. 1993. Warm season supplemental forages for white-tailed deer in the pineywoods of East Texas. *Proc. Ann. Conf. S.E. Assoc. Fish Wildlife Agencies.* 47:185-197.
- Higginbotham, Billy and G.M. Clary. 1992. Development and management of fishing leases. Southern Regional Aquaculture Center (SRAC) publication no. 481. 4pp.
- Higginbotham, Billy. 1989. Forage Species: Range, description and life history. Southern Region Aquaculture Center (SRAC) publication number 140. 4pp.
- Higginbotham, Billy. 1989. Forage species: Return on investment. Southern Region Aquaculture Center (SRAC) publication number 142. 4pp.
- Higginbotham, Billy. 1989. Forage species: Production techniques. Southern Region Aquaculture Center (SRAC) publication number 141. 4pp.
- Van Den Avyle, M.J., B.J. Higginbotham, B.T. James and F.J. Bulow. 1983. Habitat preference and food habits of young of the year striped bass, white bass and yellow bass in Watts Bar Reservoir, Tennessee. *North Amer. Journal of Fish*

Management. 3:163-170.

Van Den Avyle, M.J. and B.J. Higginbotham. 1979. Growth, survival and distribution of striped bass stocked into Watts Bar Reservoir, Tennessee. Proc. Conference. S.E. Association Fish Wildlife Agencies. 33:361-370.

#### 9. Thesis and Dissertation

Higginbotham, Billy. 1991. Evaluation of supplemental forages for the white-tailed (Odocoileus virginianus) in East Texas. Doctoral dissertation, Stephen F. Austin State University. 239pp.

Higginbotham, Billy. 1979. Growth, food habits, maturation, and distribution of the striped bass (Morone saxatilis) in Watts Bar Reservoir, Tennessee. M.S. Thesis, Tennessee Technological University. 82pp.

#### 10. TAES Publications (6)

Higginbotham, Billy and G.R. Smith. 2002. Evaluation of fall established forages for white-tailed deer. TAMU Research Center Tech. Rept. no. 2002-1. pp.109-110.

Smith, G.R., Billy J. Higginbotham and J. Gilbert. 1996. Evaluation of summer legumes as supplemental browse for white-tailed deer. TAMU Research Center Tech. rept. no. 96-1. pp.49-50.

Higginbotham, Billy and J.C. Kroll. 1995. Supplemental forage management for white-tailed deer in East Texas. TAMU Research Center. Tech. rept. no. 95-1. pp. 9-15.

Higginbotham, Billy and M. W. Whiteman. 1990. Evaluation of a cool season forage combination for white-tailed deer. TAMU Research Center. Tech rept. No. 90-1. pp. 211-214.

Higginbotham, Billy and S.W. Cronin. 1990. A supplemental forage combination for white tailed deer: Iron and clay cowpeas and alyceclover. TAMU Research Center. Tech. rept. no. 90-1. pp. 203-210.

Higginbotham, Billy, F.M. Rouquette, Jr. and M.J. Florence. 1986. Use of Tilapia to decrease algae in livestock watering tanks. TAMU Research Center Tech. rept. no. CPR-4499. pp. 95-96.

#### 11. Popular Articles-Magazines (167)

Higginbotham, Billy, 2019. The weeds are coming! Texas Wildlife. Vol. 34(11).

Higginbotham, Billy, 2019. Your key(s) to successful pond management. Texas Wildlife. Vol. 34 (9).

- Higginbotham, Billy. 2018. New structure does more than just “shorten the time between bites”. Texas Wildlife. Vol. 34 (7).
- Higginbotham, Billy. 2018. Bass and broccoli. Texas Wildlife. Vol. 34 (5).
- Higginbotham, Billy. 2018. When the new wears off. Texas Wildlife. Vol. 34 (3).
- Higginbotham, Billy. 2018. What’s your fish/pond management I.Q,? Texas Wildlife. Vol. 34 (1).
- Higginbotham, Billy. 2018. Pond management puzzler. Texas Wildlife. Vol. 33 (11)
- Higginbotham, Billy. 2018. Whatizit? Texas Wildlife. Vol. 33 (9).
- Higginbotham, Billy. 2017. Potential toxicants for wild pigs....Kaput and beyond! North American Whitetail’s Hog Hunting. November issue. (in press).
- Higginbotham, Billy. 2017. Assess your way to success! Texas Wildlife. Vol. 33 (7).
- Higginbotham, Billy. 2017. Myths and facts about critters that hurt—and critter that don’t! Texas Wildlife Vol.33 (5).
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- Higginbotham, Billy. 2017. The value of a pond. Texas Wildlife. Vol. 33 (1).
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- Higginbotham, Billy. 1990. Food plot management for white-tailed deer. Wildlife Resources Note-Information Exchange Bulletin. U. S. Army Corps of Engineers. Washington, D.C.
- Higginbotham, Billy. 1987. Tilapia-Alternative for farm fish ponds. Extension Today. April 1987.

12. Blog Articles (13) (texasalloutdoors.com)

- Higginbotham, Billy. 2016. Pond seining can reveal much about largemouth bass bluegill populations.
- Higginbotham, Billy. 2016. Watch for signs of summertime oxygen depletions in Texas farm ponds.
- Higginbotham, Billy. 2016. Aquatic weed woes in private waters.
- Higginbotham, Billy. 2016. Kill wild pigs....now!
- Higginbotham, Billy. 2016. Springtime can be fish stocking time.
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- Higginbotham, Billy. 2016. Pond fertilization.
- Higginbotham, Billy. 2016. As deer season winds down, keep feeders full and food plots growing.
- Higginbotham, Billy. 2016. Pondowners should test water quality in January.
- Higginbotham, Billy. 2016. Fence your feeders.

Higginbotham, Billy. 2016. Venison quality begins with the hunter.

Higginbotham, Billy. 2016. Post-season deer counts.

### 13. Other Scholarly Activities

#### A. Photo Credits (14)

2002-Spot the buck. Texas Wildlife. Vol.17 (12) 1 photo.

2002-Tale of the tape. Texas Wildlife. Vol. 17 (11). 1 photo.

2002-East Texas Deer: Part II-Perspective. Texas Wildlife. Vol. 17 (8). 3 photos.

2001-East Texas Deer: Part I-History. Texas Wildlife. Vol. 17 (7). 3 photos.

2001-Top ten mistakes that deer managers/hunters make. Texas Wildlife. Vol. 17 (5). 5 photos.

2001-Fishy names. Texas Wildlife. Vol. 17 (5). 3 photos.

2001-One picture is worth 1000 words. Texas Wildlife. Vol. 17 (2). 2 photos.

2001-When an aquatic plant becomes an aquatic weed.  
Texas Wildlife. Vol. 16 (10). 2 photos.

1999-What's your environmental IQ? Texas Wildlife. Vol. 15 (6). 4 photos.

1999-Whitetails in the classroom. North American Whitetail. Vol. 18 (6). 2 photos.

1994-Sportsman's extravaganza well received, especially by youth. Texas Wildlife.  
vol. 10 (1). 2 photos.

1993-4-H advertisement. Texas Monthly. August, 1993.

1993-Sportsman's extravaganza declared a success. Texas Parks and Wildlife Magazine. Vol. 51 (7).

1992-Managing recreational fish ponds. World Aquaculture. Vol. 23 (2).

#### B. Graduate Students (Committee member unless noted otherwise) (27)

Jana Kubecka. 2015. TAMU-MS. (graduated)

Eric Metcalf. 2012. TAMU-MS. (graduated)

Jonathan Griffin. 2011. TAMU-MS (graduated)

Shane Morgan. 2011. TAMU-MS (graduated)  
Aaron Sumrall. 2011. TAMU-PhD (graduated)  
Matt Springmeyer. 2010-13. TAMU-MS (co-major professor)  
Andrea Feldpausch. 2010. TAMU-PhD (graduated)  
Jessica Alderson. 2008. TAMU-MS (graduated)  
Derrick Bruton. 2007. TAMU-MS (graduated) (co-major professor).  
Andrea Feldpausch. 2007. TAMU-MS (graduated)  
Jonah Evans. 2006. TAMU-MS (graduated)  
Kieran Lindsey. 2005. TAMU-PhD (graduated)  
Steven Mapel. 2003. TAMU-MS (graduated)  
Greg Fuller. 2002. SFASU-MS (graduated)  
Cristy Brown. 2001. TAMU-MS (graduated)  
Dewey Stoeffels. 2000. SFASU-MS (graduated)  
Terry Wilson. 2000. SFASU-MS (graduated)  
Mike Robbins. 2000. SFASU-MS (graduated)  
Brandon Swain. 2000. SFASU-MS (graduated)  
Ronald Erwin. 2000. SFASU-MS (graduated)  
Tim Wilson. 1999. TAMU-MS (graduated)  
Dean Whitt. 1999. TAMU-PhD (graduated)  
Steven Webb. 1998. TAMU-PhD (graduated)  
Scott Willard. 1996. TAMU-PhD (graduated)  
Randy Browning. 1994. SFASU-MS (graduated)  
Robert Skinner. 1993. SFASU-MS (graduated)  
Richard Hill. 1991. SFASU-MS (graduated)

### C. Graduate/Undergraduate Courses Taught

This faculty member created a distance education on-line fisheries management course consisting of 17 lessons entitled “Warmwater Fisheries Management in Private Impoundments” that is to be offered via the College of Agriculture-Kansas State University. Undergraduate/graduate students can take the course for either 3 or 4 credit hours depending upon their participation in the optional lab component. 2016.

This faculty member holds graduate school appointments at Stephen F. Austin State University and Texas A&M University. 1991-present.

Taught a 400/500 level fisheries management course for the College of Forestry and Agriculture at Stephen F. Austin State University. 1997, 1999, 2002, 2006, 2008.

Team taught a “Visualizing Biodiversity” graduate course with Lee Fitzgerald (WFS), John Oswald (Entomology) and Andrew Klein (Geography) as part of the Information Technology in Science (ITS). Summer 2003.

### D. Papers Presented

#### 1. Invitational Papers/Presentations (37)

Higginbotham, Billy. 2015. Wild pigs: The good, the bad or the ugly? East Texas Farm and Ranch Club. Tyler, Texas.

Higginbotham, Billy. 2015. Wild Pigs: The good, the bad or the ugly? Texas Wildlife Association Annual Conference. San Antonio, Texas.

Higginbotham, Billy. 2015. Can we manage deer with a calendar? Texas Deer Study Group Annual Conference. Palestine, Texas.

Higginbotham, Billy. 2014. Overview of wild pig tactical control methods. International Wild Pig Conference. Montgomery, Alabama.

Higginbotham, Billy. 2013. Wild pig history and biology. Society of Range Management Annual Meeting. Oklahoma City, Oklahoma.

Higginbotham, Billy. 2012. Public education and wildlife conservation issues, the next step: Outreach to underserved populations and informal education. The Wildlife Society Annual Conference. Portland, Oregon.

Higginbotham, Billy. 2012. Legislation and wild pig management. International Wild Pig Conference. San Antonio, Texas.

Higginbotham, Billy. 2012. Abating wild pig damage using trapping best management practices. Vertebrate Pest Conference. Monterey, California.



- Higginbotham, Billy. 2011. Wildlife in the classroom: Multi-media modules for elementary school students. The Wildlife Society Symposium on engaging, educating and equipping future biologists and voters. Waikoloa, Hawaii.
- Higginbotham, Billy. 2011. Control options for wild pigs: What works, what doesn't and what might. The Wildlife Society Symposium on Wild Pigs: An overview of history, status and management. Waikoloa, Hawaii.
- Higginbotham, Billy. 2011. Controlling wild pigs. Southeast Deer Study Group. Oklahoma City, Oklahoma.
- Higginbotham, Billy. 2011. Controlling wild pigs. International Association of Fish and Wildlife Agencies. Omaha, Nebraska.
- Higginbotham, Billy. 2011. Trapping wild pigs. Quality Deer Management Association National Convention. Nashville, Tennessee.
- Higginbotham, Billy. 2011. Abating feral hog damage to agriculture. Texas Banker's Association Agriculture and Rural Affairs Conference. Lubbock, Texas.
- Higginbotham, Billy. 2011. Abating feral hog damage. Texas Fruit Grower's Association. Eastland, Texas.
- Higginbotham, Billy. 2010. The role of education and outreach to abate feral hog damage. National Invasive Species Week Conference. Washington, D.C.
- Higginbotham, Billy. 2010. Feral hog abatement strategies. Louisiana State University Idlewilde Research Station Field Day. Idlewilde, Louisiana.
- Higginbotham, Billy. 2009. Feral hog abatement strategies. Annual meeting of the Texas Trappers and Fur Hunter's Association. Jacksonville, Texas.
- Higginbotham, Billy. 2009. Feral hog abatement strategies. Annual meeting of the Texas Pecan Grower's Association. Mesquite, Texas.
- Higginbotham, Billy. 2009. Feral hog abatement strategies. Annual meeting of the Texas Animal Control Association. Nacogdoches, Texas.
- Higginbotham, Billy. 2009. Feral hog abatement strategies. Annual meeting of the Texas Surface Mine Reclamation Association. College Station, Texas.
- Higginbotham, Billy. 2009. Abating feral hog damage in Texas. Fifth Annual Ark-La-Miss Wildlife Management Symposium. Ruston, Louisiana.
- Higginbotham, Billy. 2007. Controlling duckweed and watermeal with diquat. Syngenta Commercial Aquatic Applicator's Training. Orlando, Florida.
- Higginbotham, Billy. 2006. BASF aquatic herbicide training meeting: Trial results using imazamox. Milwaukee, Wisconsin.

- Higginbotham, Billy. 2006. BASF aquatic herbicide training meeting: Trial results using imazamox. Gainesville, Florida.
- Higginbotham, Billy. 2003. Supplemental forages for white-tailed deer. Landowner's holy grail or biologist's worst nightmare? West Texas Deer Study Group. Brownwood, Texas.
- Higginbotham, Billy. 2002. Fall-established warm season supplemental forages for white-tailed deer. East Texas Deer Study Group. College Station, Texas.
- Higginbotham, Billy. 2000. Deer management in East Texas: A history and perspective. East Texas Deer Study Group. Broadus, Texas.
- Higginbotham, Billy. 1999. Future of hunting think tank: A strategy to address the issues. Ninth Triennial Extension Wildlife and Fisheries Conference. Portland, Maine.
- Higginbotham, Billy. 1997. Urban youth conservation education. National Urban and Community Conservation Conference. Columbus, Ohio.
- Higginbotham, Billy. 1997. 4-H wildlife and fisheries school enrichment opportunities. International Association of Fish and Wildlife Agencies Annual Meeting. Scottsdale, Arizona.
- Higginbotham, Billy. 1997. 4-H wildlife and fisheries school enrichment programming. National Extension Aquaculture Workshop. Annapolis, Maryland.
- Higginbotham, Billy. 1996. Multi-media programs and new computer technologies: A look at Texas 4-H wildlife school enrichment programs. Pages 38-42 in D. Edge, ed. Educational challenges for the 21st century. Proceedings of the Extension Wildlife and Fisheries Specialists Triennial Meeting. Bellingham, Washington.
- Higginbotham, Billy, and G.M. Clary. 1996. Development and management of fishing leases. Pages 90-93 in D. Edge, ed. Educational challenges for the 21st century. Proceedings of the Extension Wildlife and Fisheries Specialists Triennial Meeting. Bellingham, Washington.
- Higginbotham, Billy. 1991. Sportfish leasing opportunities. National Containment Area Aquaculture Workshop. South Padre Island, Texas.
- Higginbotham, Billy. 1988. An Impact Study: Farm pond management in East and Central Texas. National Association of Evaluation Specialist's Annual Meeting. New Orleans, Louisiana.

2. Submitted (3)

- Higginbotham, Billy. 1994. Wildlife success stories and endangered species: A 4-H school enrichment program for elementary students. Third Annual

Governor's Conference on America's Hunting Heritage. Little Rock, Arkansas.

Higginbotham, Billy. 1993. Feral hogs: Research needs and conference summary. National Feral Swine Conference. Kerrville, Texas.

Higginbotham, Billy. 1987. Fee fishing potential for red drum. Red Drum Conference. Corpus Christi, Texas.

### 3. Abstracts & Posters Submitted/Presented (32)

Lopez, Roel, Jonathan D. Griffin, Janell Mellish, **Billy Higginbotham\*** and Tyler Campbell. 2012. Characterizing wild pig population trends in Texas. International wild pig conference. San Antonio, Texas. (\* = presenter)

Higginbotham, Billy. 2011. Addressing the feral porcine invasion via educational outreach: A deer manager's guide. 34<sup>th</sup> Annual Meeting of the Southeast Deer Study Group. Oklahoma City, Oklahoma.

Higginbotham, Billy. 2010. Using landowner education and outreach to address wild pig damage and abatement. 8<sup>th</sup> International Symposium on wild boars and other suids. York, United Kingdom.

Higginbotham, Billy J. 2010. The use of a calendar to encourage wildlife and fish management practice adoption among landowners. Triennial Meeting of Wildlife and Fisheries Specialists. Vicksburg, Mississippi.

Higginbotham, Billy J., Michael Bodenchuk, Dale Rollins, Ken Cearley, Larry Hysmith, Jim Cathey, Chancey Lewis and Jim Gallagher. 2010. Characterizing, quantifying and addressing wild pig damage: Building your case for a call to arms using landowner surveys. National Wild Pig Conference. Pensacola, Florida.

Bodenchuk, Michael, Billy Higginbotham, Bruce Leland and Randy Smith. 2010. Texas feral swine control: Project results and the development of a statewide strategy. National Wild Pig Conference. Pensacola, Florida.

Rattan, Justin, Billy Higginbotham, David Long and Tyler Campbell. 2010. Feral Swine exclusion fencing at deer feeders. Poster presentation. National Wild Pig Conference. Pensacola, Florida.

Higginbotham, Billy J. 2009. Measuring impacts of educational outreach publications: A case history of Texas AgriLife Extension's wildlife and fish management calendar. The Wildlife Society Annual Meeting abstract/presentation. Monterey, California. (presentation via proxy).

Higginbotham, Billy J., Greg Clary, Larry Hysmith and Michael Bodenchuk. 2009. Abating feral hog damage in Texas: Can we make a difference? Texas Chapter-Wildlife Society abstract/presentation. Lubbock, Texas.

- Higginbotham, Billy. 2008. Abating feral hog damage to agricultural enterprises: A Texas pilot study. Bar the Gate: National Conference on Feral Hogs. St. Louis, Missouri.
- Higginbotham, Billy. 2007. Creating effective extension/outreach deliverables. Communicating with the public through multi-media symposium session. The Wildlife Society Annual Meeting. Tucson, Arizona.
- Higginbotham, Billy. 2006. Feral hog abatement in agriculture: A Texas pilot study. National Conference on Wild Pigs. Mobile, Alabama
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#### 4. Books and Book Chapters (3)

- Gaskamp, Joshua A., James C. Cathey, Michael J. Bodenchuk and, Billy J. Higginbotham. 2018. Regional chapter: South central *in* Invasive wild pigs in North America: Ecology, impacts and management. (in press).
- Higginbotham, Billy J., 2017. Extension wildlife specialist. *in* Careers in the wildlife profession. S. E. Henke, editor. Texas A&M-Kingsville. Kingsville, Texas.

Masser, Michael P. and Billy J. Higginbotham. 2012. Fee fishing opportunities. Pages 329-350 *in* Small impoundment management in North America. J. Wesley Neal and David W. Willis, editors. American Fisheries Society. Bethesda, Maryland.

5. Symposia Organized/Moderated (1)

Wild and Feral Pigs Symposium. Congress for Wildlife and Livelihoods on Private and Communal Lands: Livestock, Tourism and Spirit. 8<sup>th</sup> International Wildlife Ranching Symposium. Estes Park, Colorado. 2014.

6. Evaluation Techniques Adopted by other Extension Services (2)

Provided Net Promoter Score training to Dr. Bronson Strickland-Mississippi State University as a means to evaluate customer satisfaction with Extension Programming.

Provided Net Promoter Score training to Dr. Rod Williams-Perdue University as a means to evaluate customer satisfaction with Extension Programming. As a result of this effort, Perdue Extension has adopted this evaluation tool to use in a wide array of Extension programming across numerous disciplines.