

LOUISIANA'S ALLIGATOR MANAGEMENT PROGRAM

2011-2012 ANNUAL REPORT



presented to

**THE HOUSE COMMITTEE ON NATURAL
RESOURCES AND ENVIRONMENT AND THE
SENATE COMMITTEE ON NATURAL RESOURCES**

Prepared by

**The Louisiana Department of Wildlife and Fisheries,
Office of Wildlife, Coastal and Nongame Resources Division
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Introduction

The Louisiana Department of Wildlife and Fisheries (Department) manages the American alligator (*Alligator mississippiensis*) as a commercial, renewable natural resource. The Department's sustained use program is one of the world's most recognizable examples of a wildlife conservation success story. Louisiana's program has been used as a model for managing various crocodylian species throughout the world. Since the inception of the Department's program in 1972, over 870,000 wild alligators have been harvested, over 7.1 million alligator eggs have been collected, and over 4.5 million farm raised alligators have been sold bringing in millions of dollars of revenue to landowners, trappers and farmers. Conservative estimates have valued these resources at over \$893,000,000, providing significant, direct economic benefit to Louisiana.

This report, per R.S. 56:279 (E), provides a historical perspective; outlines the basis and philosophy of the Department's management program; reviews the federal government's oversight and approval role for management of the alligator in the United States; discusses wild, farm and nuisance alligator programs; lists research activities; and reviews the revenue and expenditure information associated with the management program and the Louisiana Alligator Resource Fund. A separate report, furnished by the Department, details the activities and expenditures of the Alligator Advisory Council.

Historical Perspective

Alligators have been used commercially for their valuable leather since the 1800s. This harvest was generally unregulated throughout the 1900s, until a gradual population decline resulted in severely reduced harvests in the early 1950s. In 1962, the alligator season in Louisiana was closed, and research studies, focusing on basic life history factors, were undertaken which led to development of a biologically sound management program. Of tremendous importance was the establishment of a rigorous survey method to estimate and monitor population trends.

R. F. SIMMS & SON,
Wool, FURS AND SKINS,
7. O. BOX 5078,
NEW ORLEANS, LA. June 26th 1884
Bought of *A. W. Hoover*

3	alligator skins of 4 ft x 4 ft @ 90¢	2.70
44	" " " " " " " "	19.50
5	" " " " " " " "	1.00
1	" " " " " " " "	1.00
	<i>Damaged</i>	
12	alligator skins 5 ft x 4 ft @ 45¢	5.40
35	" " " " " " " "	19.75
	<i>Wep freight</i>	.65
		19.05

Receipt for alligator skins sold in 1884

From 1962 through August 1972, alligators were totally protected. During this time a myriad of state and federal laws regulating harvest distribution and allocation of take, methods of harvest and possession, transportation and export of live alligators, alligator skins and their products was enacted. Similarly, in 1970 the Louisiana Legislature recognized that the alligator's value, age at sexual maturity, and vulnerability to hunting required unique consideration and passed legislation providing for a closely regulated experimental commercial harvest.

The goals of the Department's alligator program are to manage and conserve Louisiana's alligators as part of the state's wetland ecosystem, provide benefits to the species, its habitat and the other species of fish and wildlife associated with alligators. The basic philosophy was to develop a sustained use management program which, through regulated harvest, would provide long term benefits to the survival of the species, maintain its habitats, and provide significant economic benefits to the citizens of the state. Since Louisiana's coastal alligator habitats are primarily privately owned (approximately 81%), our sustained use management program provides direct economic benefit and incentive to private landowners, and alligator hunters who lease land, to protect the alligator and to protect, maintain, and enhance the alligator's wetland habitats. One of the most critical components of the management program was to develop the complex set of regulations which required individual applications for each property to be considered for tag allocation, landowner permission, proof of ownership and detailed review of habitat quality related to alligator abundance, all of which combined to equitably distribute the harvest in relation to population levels.

During the period of total protection (1962-1971) alligator populations increased quickly and by 1972 the Department was ready to initiate its new sustained use management program. On September 5, 1972 the alligator season was reopened in Cameron Parish and a total of 59 hunters harvested 1,350 alligators. The season was expanded to include Vermilion Parish in 1973, Calcasieu Parish in 1975, an additional nine coastal parishes in 1979 and statewide in 1981 (Table 1).

Oversight by the U.S. Fish and Wildlife Service

Five years after Louisiana closed the alligator harvest season, the alligator was listed on the federal Endangered Species Act in 1967. At this time the alligator was considered an endangered species throughout its range. In March of 1974, Louisiana petitioned the Secretary of the Interior, requesting that populations of the alligator in Louisiana be removed from the list of threatened and endangered species in Cameron, Vermilion and Calcasieu Parishes. In subsequent years, similar petitions sought to reclassify the alligator, first in nine additional coastal parishes in 1978 and then statewide in 1981. Each of these petitions was based on results of detailed scientific study and the demonstrated success of the early harvest programs.

Export of alligator skins and products out of the United States is regulated by the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES). This treaty, which became effective in 1975, regulates the international trade in protected species; its aim is to ensure that international trade in specimens of wild animals and plants does

not threaten their survival. The U.S. Fish and Wildlife Service (USFWS) administers CITES requirements and controls for the United States. The species covered by CITES are listed on one of three Appendices, according to the degree of protection needed. Currently, the alligator is listed on Appendix II of CITES, because of their similarity of appearance to other crocodylians that are truly endangered or threatened.

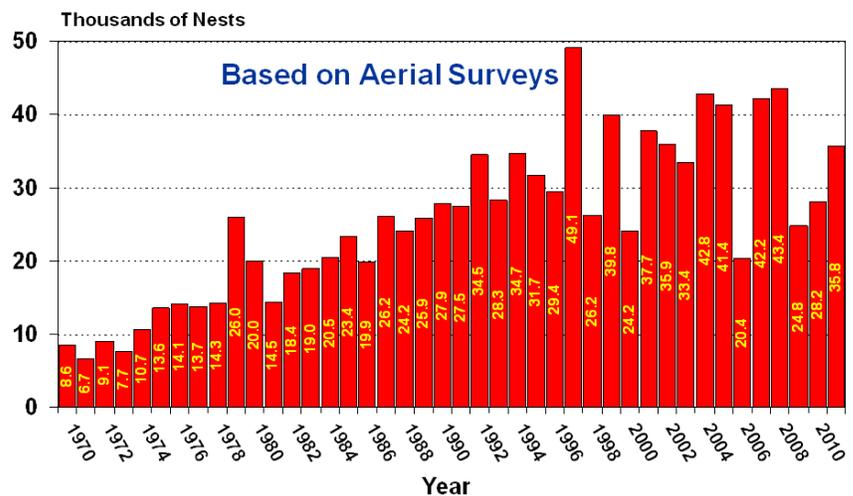
In order to fulfill CITES requirements, the USFWS through a series of rulemakings, has developed a complex set of requirements with which the individual states, including Louisiana, must comply in order to be granted export approval for harvested alligators skins and products. The most critical component in these requirements is that the Department must certify, on an annual basis, that the harvest programs we administer will not be detrimental to the survival of the species. The “no detriment” finding is predicated on our assessment of the current condition of the alligator population, including trends, population estimates or indices, data on total harvest, harvest distribution and habitat suitability evaluation. Additionally, the management program must provide for a rigorously controlled harvest with calculated harvest level objectives. All alligators and eggs harvested must be taken from specifically identified properties and all hides individually tagged (with approved, serially marked CITES export tags furnished by the USFWS). The USFWS requires strict accountability for each tag allocated to the harvester, requiring all unused tags be returned at the close of the season.

Wild Alligator Management Program

In 1970, the Louisiana State Legislature (Act 550) gave the Department of Wildlife and Fisheries full authority to regulate the alligator season in Louisiana. Since that time, the Department has annually inventoried alligator nest production throughout coastal Louisiana in order to assess the status of alligator populations. Results of annual alligator nest surveys are compiled to provide estimates of nest density (acres per nest) by parish and by habitat type (brackish, intermediate, or fresh). Private and publicly owned lands (State and Federal Refuges, and Wildlife Management Areas) are compiled separately.

In June/July 2011, over 2,800 miles of transects were flown, surveying 135,000 acres of wetland habitat. The sampling intensity covers approximately 3.4% of 2.3 million acres of private coastal wetlands, and 3.4-10.8% of some 622,000 acres of public coastal wetlands. During summer 2011 we estimated that 35,782 alligator nests were present in coastal marsh habitats (a 27% increase from 2010) (Figure 1).

Figure 1. Louisiana Coastal Marsh Alligator Nest Production, 1970-2011

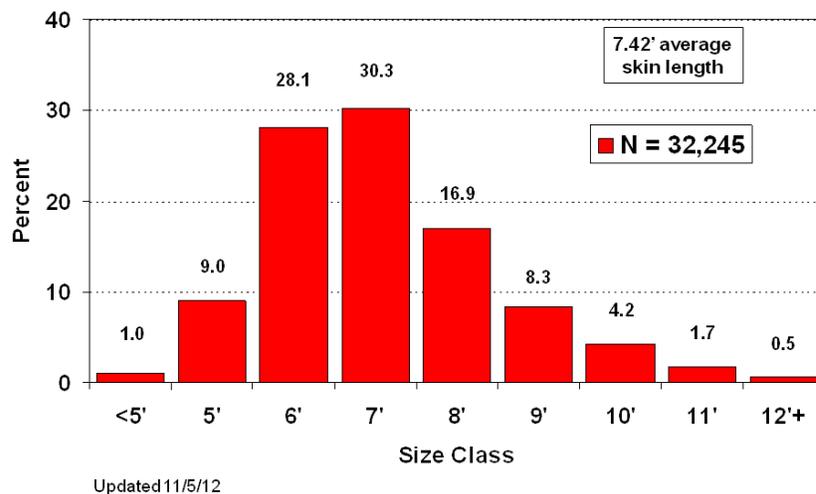


Nest density and alligator population estimates are combined with a detailed review of harvest parameters and a general assessment of environmental factors observed during each survey to determine final harvest level objectives. Over 50 individual alligator harvest quotas are developed annually in order to distribute the harvest in relation to alligator abundance in the various habitats across the state. A listing of the 2011 wild alligator harvest quotas is appended as Exhibit 1. In the best habitat one alligator is harvested per 55 acres, while in the poorer habitats one alligator is harvested per 400 acres.

Alligator hunters annually submit a description of the property on which they have permission to hunt. The Department assesses the habitat quantity and quality and determines the number of alligators that can be harvested by each hunter. This methodology ensures that alligators are harvested in proportion to their population levels and that the harvest will not negatively impact populations at any location. The currently approved quota system represents an allowable wild alligator harvest, which coupled with the state authorized wild alligator egg harvest program represents a level of population utilization currently unparalleled in the world of crocodylian management.

Under this sustained use alligator program, over 870,000 wild alligators have been harvested since 1972 (Table 2). The annual harvest takes place in September to specifically target the adult males and immature segments of the alligator population. Adult females, which typically inhabit interior marshes in September, would be more susceptible to harvest if the season was scheduled during the spring or summer. During the 2011 wild season, a total of 32,325 alligators were harvested by 2,969 licensed alligator hunters. Alligators harvested averaged 7.4 feet in length (Figure 2), with an estimated value of \$7.4 million.

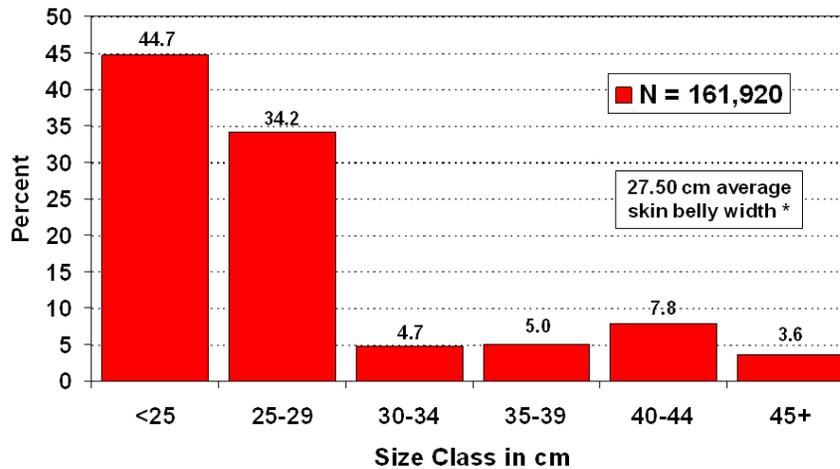
Figure 2. Louisiana Wild Alligators Harvested, 2011 Regular Harvest Skin Lengths



Each year the alligator program staff works closely with landowners and alligator hunters to provide assistance regarding alligator management on their respective properties. We have

alligators was \$31.1 million (Table 4). Although the data are still being compiled as skins are exported out of Louisiana, an estimated 240,000 farm-raised alligators were harvested during the 2011 tag year.

Figure 4. Louisiana Farm Alligators Harvested, 2010 Skin Belly Widths



Beginning late winter and continuing into spring and summer of 2009, worldwide economic recession significantly impacted world trade in raw and tanned alligator skins and manufactured products. Price and demand for farm-raised alligator skins dropped precipitously during this period. The drop in price and demand coincided with the economic recession and with tanners implementing stricter quality standards. Throughout this period many farmers were unable to sell any skins; several farmers exported skins for crust tanning and later sale. Two of the largest alligator skin tanneries in the world made recommendations to the Department and alligator industry participants, urging actions which would act to reduce existing inventories of both live on-farm alligators and alligator skins. In June 2009 many farmers decided to forego egg collections in July 2009 thereby reducing on-farm inventories of live alligators during the 2009-2010 FY. Coastal flooding associated with a tropical weather event during July 2010 limited egg collections to 205,261 eggs. Egg harvest numbers rebounded in 2011 and 2012, although some eggs were lost to coastal flooding in June 2012. Since early 2010, price and demand for both wild and farm-raised alligators has continued to rebound.



In order to better meet the needs of the alligator industry, the Department sponsors meetings for all segments of the industry (farmers, hunters, and landowners) which gives the industry participants an opportunity to prioritize and discuss the current issues facing the state's alligator industry. The Department also created specific e-mail (LAalligatorprogram@wlf.la.gov) and website (www.lagatorprogram.com) addresses for the alligator program to provide additional and easier methods for alligator industry participants and the general public to ask questions and acquire information. Alligator program staff continues to compile and update contact information, including e-mail addresses, which are used to promptly notify participants of available and arising program information. In addition to the on-site visits, the staff communicates with farmers on a regular basis to schedule releases, hide inspections, live animal inspections, coordinate farm transfers, alligator egg collection permits, and to issue and follow up on CITES harvest tags.

The Department contracts with the LSU School of Veterinary Medicine to provide various services to the alligator industry. On numerous occasions the staff arranged for transportation of sick or problem alligators and sample skins from farms to the LSU Vet School for necropsy or skin evaluation. One of these contracts provides for the availability of a veterinarian to respond to farm related problems. Farmers know they can contact the program staff or Dr. Nevarez and get a rapid response to their problem. We also arranged collection and delivery of alligator research specimens to numerous graduate students and university faculty.

Despite setbacks from Hurricanes Rita and Ike, numerous wildlife groups, including university and graduate students, were hosted at Rockefeller Wildlife Refuge for educational purposes; as were professional representatives from domestic and international organizations. Presentations were made at various civic organizations and captive alligators were often loaned out for educational purposes.

Nuisance Alligator Program

The Louisiana Department of Wildlife and Fisheries manages a statewide nuisance alligator control program. The nuisance program is designed to remove problem alligators in order to avoid potential human/alligator conflicts. Through the process of nuisance alligator hunter appointments and annual renewals the Department maintains a statewide network of qualified nuisance alligator hunters. Nuisance alligator complaints are phoned into various Department offices, where complaints are recorded and then forwarded to a nuisance alligator hunter in the vicinity of the complaint. Nuisance hunters respond promptly and catch and remove the alligator as deemed necessary. Hunters are allowed to harvest the nuisance alligator and to process the meat and skin of the alligator for commercial sale. This process provides for immediate response to problem alligators and for payment to the nuisance alligator hunter, thereby minimizing the program operating costs to the Department.

During 2011-12, a total of 61 nuisance alligator hunters were enrolled in the program; annually the nuisance hunters respond to several thousand complaints and harvest approximately 1,500 alligators.

Research Activities

The following list provides a summary of the various research and monitoring projects that the alligator program staff conducted and/or participated in during the 2011-2012 fiscal year.

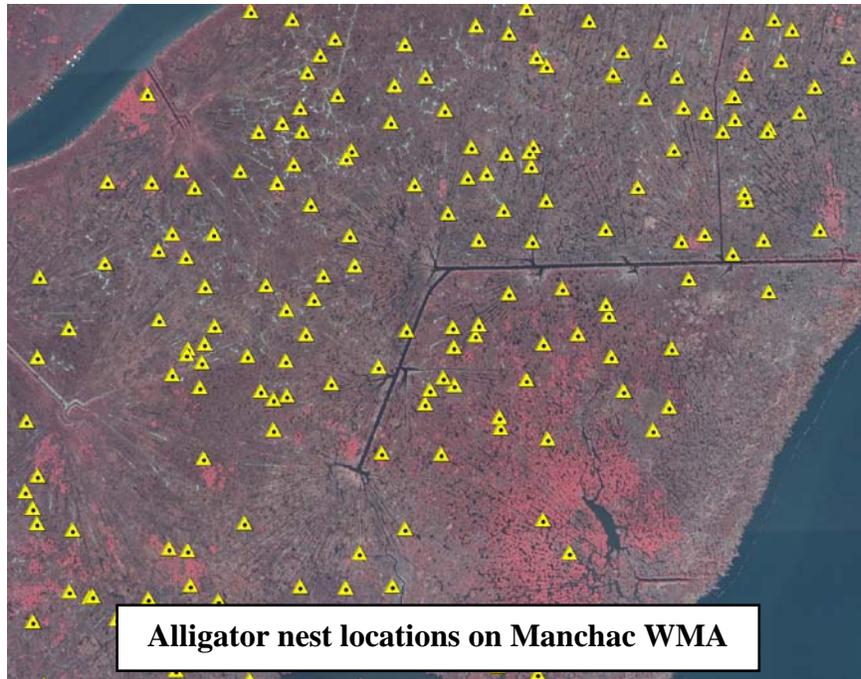
Monitoring

1. Evaluation of survival, growth, and reproduction in farm released alligators---This activity involves numerous projects related to survival analysis, growth and reproductive success (farm-released vs. native wild). Due to the recent reduction of the 14% release rate to 12%, it is imperative to monitor survival closely. The 12% return rate started with the 2007 permits (releases “due” in 2009). Information on size class frequency distribution of wild alligator populations and susceptibility to harvest is provided annually to enhance survival estimates. Although some growth information has been published we plan to evaluate growth rates in more detail; we now have "re-traps" that were captured over 15 years since release, and this is undoubtedly one of the largest mark-recapture projects currently in progress. Staff from the LSU Department of Experimental Statistics assists with annual evaluation of survival and growth based on farm “re-traps” recovered in September harvests.

2. Coast wide nest survey---The annual coastal nesting survey is essential for monitoring our alligator population, and is used annually to determine wild alligator and wild alligator egg harvest quotas (for the adult harvest each September as well as egg ranching quotas). This is an integral part of our required “finding of no detriment” needed to achieve for export authorization by the USFWS.

3. Evaluation of statewide harvest program---We continue to analyze size class frequency distribution, average size, sex ratios, etc. for alligators harvested each year. During the 2011 wild season staff collected sex ratio data on 12,550 alligators (69% males, 31% females) which represented 39% of the total alligators harvested. This project, coupled with coast wide nest survey provides critical information regarding the status of the wild alligator population. Data generated from these projects provides the basis for evaluating the impact of our current harvest strategies and for establishment of annual wild harvest quotas.

4. Evaluation of alligator nest density---LDWF biologists work with cooperating alligator farmers to gain access to their GPS data from annual egg collections. This data will facilitate comparisons between our coast wide nest survey and estimates of nest density as recorded by the farmer during egg collections. Some farmers have advised staff of reduced nest production on selected wetlands; close review of this nesting production data will allow us to evaluate nest distribution and density changes over time.



5. WNV (West Nile Virus)---The Department, in conjunction with LSUSVM, continues to monitor occurrence of WNV on alligator farms in Louisiana. Initial mortality related to WNV occurred in fall/winter 2003. Aggressive mosquito control on farms has reduced on farm mosquito populations and seems to have reduced the incidence of WNV in recent years. However, 2012 has turned out to be the worst year on record for human cases of WNV in Louisiana and in the U.S. Notifications have been provided to all farmers regarding the increased frequency of occurrence and farmers have been urged to be diligent with their on farm practices to control mosquito populations in their grow-out pens and surrounding farm area. During fiscal year 2011-2012 we continued to have expertise from staff at LSUSVM available if needed to collect samples from farm alligators to monitor for any health concerns, provide diagnostics as needed and assist with other health surveillance parameters.

After several years of research, development and testing, a WNV vaccine was developed, gained conditional approval by the USDA and became available to farmers in October 2011 from the Boehringer-Ingelheim Company. The vaccine requires two, 0.5ml injections into the tail of the alligator (2-4 week interval between injections is recommended). Cost is \$2.50 per injection or \$5.00 per animal. Work continues on development of a single dose vaccine. Several farmers have taken advantage of this new proactive technology to prevent WNV in captive hatchling and yearling alligators.

6. Best management practices---The Department of Wildlife and Fisheries and the LSU School of Veterinary Medicine in conjunction with the Louisiana Alligator Farmers and Ranchers Association developed a document entitled “Best Management Practices for Louisiana Alligator Farming”. The document was distributed in June 2011 and details recommended practices to ensure animal welfare of captive reared alligators in Louisiana, including egg collection,

hatching, rearing, release to the wild and euthanasia. This document will be updated as new information regarding any pertinent topic to alligator farming becomes available. The intent of this document is to ensure that licensed alligator farms/ranches are employing humane methods of working with alligators. Through industry contributions, Dr. Nevarez at LSU's School of Veterinary Medicine has evaluated the most appropriate methods of euthanasia for alligators. Results of this important research will be incorporated into a revised BMP document and distributed to farmers in December 2012.

7. Alligator Research Facility---After several years of planning and fund raising by industry personnel, construction began on an alligator research facility at LSU's AgCenter Aquaculture Research Station. Funding for facility construction was provided purely by monetary donations from alligator industry participants including alligator farmers, wetland landowners, tanners, feed manufacturers, alligator hunters and other interested parties. The building will be available to house alligators of various sizes for projects related to all phases of alligator husbandry. LDWF staff has worked closely with alligator producers and feed manufacturers to provide input to identify and prioritize research goals and secure long term funding sources for facility operation. The LSU AgCenter has established an Alligator Research Fund to receive additional donations for funding various research projects. Facility completion is set for January 2013.



Contracts

1. Diagnostic services - LSUSVM (Dr. Nevarez)---Dr. Nevarez is contracted to provide diagnostic services as needed for the alligator industry. Farmers may consult with Dr. Nevarez at any time for assistance with any alligator husbandry or disease issue. Our staff often assists with logistics and transport of alligators/samples to LSUSVM in Baton Rouge for evaluation.

Periodic health surveillance of farm released alligators is conducted to monitor health status of farm alligators released to the wild.

2. LSU Experimental Statistics---The LSU Department of Experimental Statistics is under contract to provide technical statistical expertise for numerous alligator projects; most importantly the evaluation of survival of farm-released alligators, population trends from nesting survey data, and more recently with hide grade/length correlations. Assistance is being provided with refining statistical analyses of growth comparisons of farm-released and native wild alligators.

3. Nutrition Research – LSU AgCenter, Aquaculture Research Station---A detailed research project entitled “Effects of Dietary Protein on Alligator Growth and Air/Water Quality of Production Systems” was undertaken after being listed as a high priority area requiring further knowledge to improve farm production while minimizing costs (avoid feeding excess protein that might go unutilized). The investigators (Dr. Robert Reigh and Dr. Greg Lutz) are evaluating various commercially available feeds with protein levels ranging from 37% to 55% protein in order to evaluate food conversion rates and water and atmospheric ammonia levels; so as to advise alligator farmers as to the optimum dietary regime available while avoiding toxic ammonia buildup in commercial sheds.

4. Electrical Immobilization – Smith-Root, Inc.---The Department has contracted with Smith-Root, Inc., to conduct a study entitled “Evaluation of Pulsed Electric Field Technology to Immobilize Farm–Raised Alligators”. Recent concerns regarding the handling and euthanasia of reptiles in commercial operations overseas has led the Louisiana alligator industry to evaluate their husbandry and harvesting practices. The recent demand for larger alligator hides has led to an increase in the number of alligators being raised to over 5 feet in length. This creates a new challenge for restraining these animals for evaluation of hide quality and euthanasia. Although electrical immobilization has been well investigated in fish, little work has been done with this technology for alligator immobilization. In order for this technique to be deemed acceptable, a number of studies have to be performed to ensure their humane application. This pilot study will determine applicability of electro-immobilization equipment for alligators.

Other Research

We spent considerable effort to testing telemetry units for practical methods to attach to juvenile alligators and test range of reception. This may be helpful in monitoring the survival of farm-released alligators. Our biological staff constructed an outside holding pen to test the telemetry unit attachment on wild and farm alligators. Unfortunately the pen was damaged by Hurricane Ike in September 2008 and alligators escaped; however the few recaptured held the telemetry units snugly in place. We held the alligators recaptured at Rockefeller and showed long-term retention of the telemetry units during 2009-2010; units eventually removed by staff and alligators released. Recently several of the alligators were recovered and we prepared a paper which was published this fiscal year in *Herpetological Review*.

Dr. Dan Janes from Harvard University continued molecular biology work on alligator embryos provided by LDWF; as did other collaborators and university professors and graduate students. We co-authored a manuscript with Dr. Janes and colleagues which is currently “in review” and being considered for publication in the scientific literature.

We have several years of data on alligator dispersal (caught live on Rockefeller, and subsequently harvested “off” Rockefeller). Several have migrated very long distances (20-35 miles) which is important data to consider in evaluating our farm “release to the wild” program. Additional data collected in September 2009 and 2010 helped us evaluate effects of Hurricane Rita and Ike and severe drought on alligator displacement. We published a manuscript on long-distance movement of alligators in *The Southeastern Naturalist*.

We co-authored a paper on physiological variability in yearling alligators in *Comparative Biochemistry and Physiology*.

We continued to support and collaborate with post-doctoral research associates with their work on oxygen levels in developing alligator embryos and cardiovascular physiology under varying conditions. Associates from several universities (University of North Texas, University of California at San Bernardino, Harvard University, Yale University, Indiana University School of Medicine, Vanderbilt University, University of Arizona, University of Florida, and University of Iowa) were hosted at Rockefeller in late summer 2011 and June 2012 to collect additional samples for several studies. Several collaborators made presentations with LDWF staff as co-authors at meetings including the Federation of American Societies for Experimental Biology in San Diego in April 2012. We co-authored a paper with a PhD student on somitogenesis published in the prestigious journal “*Developmental Biology*”.

We published an updated on alligators used for reintroductions in “Global Reintroduction Perspectives: 2011. More case studies from around the globe”. We co-authored an abstract that was presented at an international conference on reintroductions in Thailand in December 2011.

We conducted a study on the effects of feral swine on alligator nests; including a detailed survey of all Louisiana alligator ranchers. This was accepted and published in the *Southeastern Naturalist*.

We previously assisted a graduate student from California with his research on use of stable isotopes to determine alligator diet (non-invasive); the manuscript is in review. We also supported Dr. Uriel Zapata with his doctoral research on material properties of alligator mandibular cortical bone. These studies were published in the journal “*Bone*” and follow up studies are underway, with a presentation being made at the Experimental Biology meetings in San Diego, California in April 2012.

We assisted a PhD graduate student from UCLA again in 2011-2012 with samples for her study of intestinal parasitology. We also assisted a PhD student from University of Tennessee with alligator specimens for her research involving molecular techniques and bacterial community diversity in the gastrointestinal tract. We submitted an abstract co-authored with her

to the 7th Congress of the International Symbiosis Society for consideration for presentation at the conference.

We published a paper last year on the development of the manus in alligators in collaboration with Dr. Hans Larsson; in June 2012 we began collections of a series of embryos for his further studies.

Our research efforts have been hampered in large part by lack of holding facilities for alligators. We had a small functioning laboratory, but the tremendous physical plant losses due to Hurricane Rita in 2005 and Hurricane Ike in 2008 have limited our progress. This lab was a shared room in the maintenance workshop and is now not usable due to repairs to the shop. Our biological staff constructed a cover/awning to the semi-repaired holding tanks, which has helped. Initial work done to supply adequate heat to holding tanks was completed in spring 2009 and minor repairs continued this fiscal year. We met several times again this year to discuss schematic drawings for a new lab and holding facility.

Revenue and Expenditure Information

In recognizing that the Louisiana alligator industry is a vital aspect of Louisiana's economy and recognizing the many, varied national and international impediments to industry development, and the need to develop and maintain a total alligator conservation program, the Louisiana legislature established the Louisiana Alligator Resource Fund in 1991 (R.S. 56:279). This Act established a dedicated source of revenue intended to help defray the costs of the alligator program within the Coastal and Nongame Resources Division of the Department. The specific goals of the legislation are:

1. To provide salaries and financial support including associated indirect costs for the following positions, to provide a minimum of two full-time technical positions (biologists) and eight nontechnical positions such as computer operators, secretaries, and wildlife specialists existing within the Coastal and Nongame Resources Division of the Louisiana Department of Wildlife and Fisheries.
2. To assist with funding for law enforcement activities associated with the alligator farm industry when surplus funds are available and recommended by the Louisiana Alligator Advisory Council.
3. To assist with funding marketing programs recommended by the Louisiana Alligator Advisory Council when surplus funds are available.
4. To actively fund research on all aspects involved with alligator conservation and to develop the techniques needed to enhance the commercial alligator industry.
5. To assist in funding management of the alligator population through proper management, harvest and farm facility management.

This legislation provides all the enabling language required to establish the Louisiana Alligator Resource Fund including sources of income, investing of the fund, and expenditures from the fund. Further R.S. 56: 253 establishes the alligator hide tag fee and the alligator shipping label fee, specifies the details of collection of these fees, and establishes that these fees

shall be no more than \$4.00 per hide or live alligator. R.S.56:256, provides for the collection of a \$0.25 severance tax on each alligator hide taken within the state. R.S. 56:279 C (1) provides that all revenues received by the state from tag fees, alligator shipping label fees, and from the severance tax on alligator skins shall be credited to the Louisiana Alligator Resource Fund.

During the 2012 legislative session, R.S.56:279 was amended to provide that monies, from various additional alligator revenue sources are deposited in to the Louisiana Alligator Resource Fund. House Bill 643 (ACT 131) provided that “*all revenues derived from the sale of alligators, alligator skins, or alligator eggs harvested from department-administered lands, all fees derived from alligator lottery harvest programs on department-administered lands and public waters and all revenues derived from any other alligator related fee*”, be credited to the Louisiana Alligator Resource Fund. The bill also provided that the Office of Wildlife may expend funds from the Louisiana Alligator Resource Fund for alligator program administration. This change will result in additional revenue for the Louisiana Alligator Resource Fund.

During the 2011-12 FY, \$1,358,472 was deposited into the Louisiana Alligator Resource Fund, an increase in revenue of \$435,742 from the previous year. Harvest and value of farm raised and wild alligators increased this fiscal year due to gradual recovery from the world wide economic recession. Both the 2012 alligator egg harvest and the wild alligator harvest are expected to increase in FY 2012-13. The alligator industry should be applauded for supporting these legislative endeavors to create a self-generated source of revenue to develop and maintain the state’s alligator management program. Annual income and expenditure data for the Louisiana Alligator Resource Fund is reported in Table 5.

Table 6 summarizes the Louisiana Alligator Resource Fund expenditures by the alligator management program for FY 2010, 2011 and 2012. Expenditures by the alligator management program totaled \$1,217,607 in 2011-12, an increase in spending of 13%, which is reflective of the increase in program activities harvests levels and value. Currently the alligator program staff consists of 6 biologists, 3 wildlife technicians, 1.5 administrative coordinators, 1 data manager and one WAE technician.

All expenditures from the Louisiana Alligator Resource Fund are provided for in R.S. 56:279. The Department carefully approves and monitors all expenditures to ensure compliance with all legal requirements. The Department’s fiscal office can produce a variety of expenditure and budget reports upon request.

Habitat Concerns

One threat or potential limiting factor to Louisiana’s alligator population is habitat loss. Because the vast majority of Louisiana’s alligators are in the coastal parishes, saltwater intrusion and wetlands/marsh deterioration from numerous causes are very real threats. Additionally, the combined impact of recent hurricanes will likely result in long term reduction of alligator habitat quality in coastal Louisiana.

Vast resources by numerous state and federal agencies have been expended to attempt to limit these losses. Projects to restore/enhance marshes include construction of earthen terraces (to reduce wave action and turbidity), “breakwaters” and protection levees along coastlines, and freshwater diversions. Alligators benefit directly from these efforts to maintain/enhance wetlands. The freshwater diversion projects (Davis Pond and Caernarvon) shift water from the Mississippi River in hopes of re-establishing more favorable salinity conditions for numerous fish and wildlife species. Some preliminary data suggests alligator nesting has improved in the areas enhanced by lower marsh salinity levels. It is critical that habitat changes are monitored, mapped and incorporated periodically into the alligator program. This will ensure that our harvest programs are adjusted accordingly for corresponding alligator population and habitat changes.

Summary

Louisiana’s alligator management program has clearly illustrated that controlled sustained use of the species is successful. The wild harvest has been in place for 40 years and the egg ranching program for 26 years and may appear to operate unchanged every year. However, constant adaptations are made to try to improve both programs. Constant requests by user groups (farmers, egg ranchers, trappers, landowners, buyers, dealers and other industry personnel) are received and considered as the Department strives to safely manage the alligator resource to the benefit of many user groups with varied interests.

Louisiana’s alligator industry is unique. It has recognized the necessity of establishing a self-generated revenue source to provide the necessary regulatory and management efforts to effectively manage the alligator resource. The Department will continue to protect the alligator resource while striving to ensure long term, sustainable harvest programs. During 2011-12 FY, the Department, through the use of the Louisiana Alligator Resource Fund, has worked toward achievement of the goals established by the Louisiana Legislature.



Table 1. Louisiana Alligator Season Dates, Area Open, Harvest Level and Tag Cost, 1972-2011

Year	Season Dates	No. of Days	Parishes	Tag Fee	
				Amount	Paid By
1972	5 Sept – 17 Sept	13	Cameron	\$5.00 ²	hunter/farmer
1973	10 Sept – 28 Sept	19	Added Vermilion	\$5.00 ²	hunter/farmer
1975	20 Sept – 19 Oct	30	Added Calcasieu	\$5.00 ²	hunter/farmer
1976	9 Sept – 8 Oct	30	No change	\$5.00 ²	hunter/farmer
1977	1 Sept – 30 Sept	30	No change	\$5.00 ²	hunter/farmer
1979	7 Sept – 7 Oct	31	Coastwide ¹	\$5.00 ²	hunter/farmer
1980	4 Sept – 4 Oct	31	No change	\$5.00 ²	hunter/farmer
1981	31 Aug – 30 Sept	31	Statewide	\$5.00 ²	hunter/farmer
1982	4 Sept – 3 Oct	30	Statewide	\$5.00 ²	hunter/farmer
1983	10 Sept – 9 Oct	30	Statewide	\$5.00 ²	hunter/farmer
1984	8 Sept – 7 Oct	30	Statewide	\$5.00 ²	hunter/farmer
1985	31 Aug- 30 Sept	31	Statewide	\$5.00 ²	hunter/farmer
1986	6 Sept – 6 Oct	31	Statewide	\$5.00 ²	hunter/farmer
1987	5 Sept – 5 Oct	31	Statewide	\$5.00 ²	hunter/farmer
1988	10 Sept – 10 Oct	31	Statewide	\$2.00/tag	hunter/farmer
1989	9 Sept – 8 Oct	30	Statewide	\$4.00/tag	hunter/farmer
1990	1 Sept – 30 Sept	30	Statewide	\$4.00/tag	hunter/farmer
1991	31 Aug – 29 Sept	30	Statewide	\$4.00/tag	hunter/farmer
1992	10 Sept – 4 Oct	25	Statewide	\$4.00/tag	hunter/farmer
1993	11 Sept – 10 Oct	30	Statewide	\$4.00/tag	fur dealer/shipper
1994	3 Sept – 2 Oct	30	Statewide	\$4.00/tag	fur dealer/shipper
1995	2 Sept – 1 Oct	30	Statewide	\$4.00/tag	fur dealer/shipper
1996	7 Sept – 6 Oct	30	Statewide	\$4.00/tag	fur dealer/shipper
1997	6 Sept – 5 Oct	30	Statewide	\$4.00/tag	fur dealer/shipper
1998	2 Sept – 1 Oct	30	Statewide	\$4.00/tag	fur dealer/shipper
1999	1 Sept – 30 Sept	30	Statewide	\$4.00/tag	fur dealer/shipper
2000	30 Aug – 30 Sept	32	Statewide	\$4.00/tag	fur dealer/shipper
2001	29 Aug – 30 Sept	33	Statewide	\$4.00/tag	fur dealer/shipper
2002	28 Aug – 30 Sept	34	Statewide	\$2.00/tag	fur dealer/shipper
2003	3 Sept – 2 Oct	30	Statewide	\$2.00/tag	fur dealer/shipper
2004	1 Sept – 30 Sept	30	Statewide	\$3.00/tag	fur dealer/shipper
2005 ³	14 Sept – 30 Oct	46	Statewide	\$4.00/tag	fur dealer/shipper
2006	6 Sept – 5 Oct	30	Statewide	\$4.00/tag	fur dealer/shipper
2007 ⁴	29 Aug – 27 Sept	30	East Zone	\$4.00/tag	fur dealer/shipper
	5 Sept – 4 Oct	30	West Zone		
2008 ⁵	27 Aug – 19 Oct	54	East Zone	\$4.00/tag	fur dealer/shipper
	3 Sept – 19 Oct	47	West Zone		
2009	26 Aug – 24 Sept	30	East Zone	\$4.00/tag	fur dealer/shipper
	2 Sept – 1 Oct	30	West Zone		
2010	25 Aug – 23 Sept	30	East Zone	\$4.00/tag	fur dealer/shipper
	1 Sept – 30 Sept	30	West Zone		
2011	31 Aug – 29 Sept	30	East Zone	\$4.00/tag	fur dealer/shipper
	7 Sept – 6 Oct	30	West Zone		

¹ Added Iberia, St. Mary, Terrebonne, Lafourche, St. Charles, Jefferson, Plaquemines, St. Bernard and St. Tammany

² Per issuance, regardless of number

³ Opening date was postponed and season was extended due to Hurricanes Katrina and Rita

⁴ State was divided into alligator hunting zones (east and west) from 2007 to present

⁵ Season was extended due to Hurricanes Gustav and Ike

Table 2. September Wild Alligator Harvest in Louisiana, 1972-2011 ¹

Year ²	Commercial Hunters	Tags Issued	Number Taken	Percent Success	Avg T. L. in Feet	Skin Value		Meat ⁴	
						Avg/foot	Total	Amount (lbs)	Value
1972	59	1,961	1,350	68.8	6.92	\$8.10	\$75,670	3	3
1973	107	3,243	2,921	90.1	7.58	\$13.13	\$290,714	3	3
1975	191	4,645	4,420	95.2	7.51	\$7.88	\$261,570	3	3
1976	198	4,767	4,389	92.1	7.09	\$16.55	\$515,003	3	3
1977	236	5,760	5,474	95	7.35	\$12.23	\$492,061	3	3
1979	708	17,516	16,300	93	6.92	\$15.00	\$1,691,940	100,089	\$125,000
1980	796	19,134	17,692	92.5	6.59	\$13.00	\$1,515,674	100,089	\$125,000
1981	913	15,534	14,870	95.7	6.92	\$17.50	\$1,800,757	100,089	\$125,000
1982	1,184	18,188	17,142	94.2	6.82	\$13.50	\$1,578,264	100,089	\$125,000
1983	945	17,130	16,154	94.3	6.92	\$13.00	\$1,453,214	100,089	\$125,000
1984	1,104	18,386	17,389	94.6	6.99	\$21.00	\$2,552,531	100,089	\$125,000
1985	1,076	17,466	16,691	95.6	7.09	\$21.00	\$2,485,123	150,133	\$675,000
1986	1,207	23,267	22,429	96	6.92	\$23.00	\$3,569,800	310,275	\$1,395,000
1987	1,370	24,635	23,892	97	7.09	\$40.00	\$6,775,771	500,444	\$2,250,000
1988	1,545	24,111	23,526	98	7.25	\$48.00	\$8,187,048	600,533	\$3,000,000
1989	1,769	25,492	24,846	97.4	7.25	\$50.00	\$9,006,675	747,448	\$3,000,000
1990	1,916	25,920	25,644	98.9	7.25	\$57.00	\$10,597,383	701,063	\$3,000,000
1991	2,001	24,646	24,011	97.4	7.45	\$32.00	\$5,724,222	684,109	\$2,935,000
1992	1,696	25,551	24,313	95.2	7.25	\$23.00	\$4,054,193	687,835	\$2,951,520
1993	1,702	24,805	23,991	96.7	7.25	\$23.00	\$4,000,499	687,615	\$2,889,000
1994	1,774	27,694	27,120	97.9	7.35	\$37.00	\$7,375,284	771,610	\$3,243,000
1995	1,877	28,931	28,442	98.3	7.35	\$41.00	\$8,570,997	809,088	\$3,400,000
1996	1,947	26,578	25,793	97.0	7.41	\$25.00	\$4,778,153	734,793	\$3,967,800
1997	1,973	29,900	29,085	97.3	7.08	\$18.00	\$3,706,592	828,423	\$4,473,000
1998	1,888	30,198	28,639	94.8	7.08	\$15.00	\$3,041,462	804,679	\$4,350,000
1999 regular	1,902	33,239	32,064	96.5	7.17	\$22.00	\$5,057,775	909,398	\$4,881,000
1999 bonus		3,348	3,206	95.8	5.75	\$15.50	\$285,735	44,335	\$237,250
2000 regular	1,941	31,999	30,532	95.4	7.17	\$27.00	\$5,910,690	1,061,903	\$5,702,419
2000 bonus		3,299	3,146	95.4	5.75	\$23.00	\$416,059	56,785	\$303,801
2001 regular	1,916	32,669	31,867	97.5	7.33	\$22.00	\$5,138,872	732,941	\$3,298,235
2001 bonus		3,402	3,281	96.4	5.83	\$20.00	\$382,565	75,463	\$339,584
2002 regular	1,955	31,757	30,451	95.9	7.25	\$16.00	\$3,532,316	700,373	\$3,151,679
2002 bonus		3,370	2,932	87.0	5.83	\$16.00	\$273,497	67,436	\$303,462
2003 regular	1,873	30,513	28,555	93.6	7.17	\$13.00	\$2,661,612	656,765	\$2,955,443
2003 bonus		3,290	3,026	92.0	5.83	\$13.00	\$229,341	69,598	\$313,191
2004 regular	1,859	31,530	30,406	96.4	7.17	\$22.50	\$4,905,248	699,338	\$3,147,021
2004 bonus		3,705	3,518	95.0	5.83	\$22.50	\$461,474	80,914	\$364,113
2005 regular	1,933	32,487	27,668	85.2	7.25	\$34.50	\$6,920,459	636,364	\$2,863,638
2005 bonus		4,078	3,507	86.0	5.83	\$34.50	\$705,380	80,661	\$362,975
2006 regular	1,872	28,501	27,319	95.9	7.42	\$39.00	\$7,905,572	628,337	\$2,827,517
2006 bonus		3,710	3,538	95.4	6.00	\$39.00	\$827,892	81,374	\$366,183
2007 regular	2,051	33,498	31,127	92.9	7.50	\$38.50	\$8,987,921	715,921	\$3,221,645
2007 bonus		4,226	3,884	91.9	6.00	\$38.50	\$897,204	89,332	\$401,994
2008 regular	2,222	36,299	31,774	87.5	7.50	\$34.50	\$8,221,523	730,802	\$3,288,609
2008 bonus		4,425	3,851	87.0	6.00	\$34.50	\$797,157	88,573	\$398,579
<u>2009</u> ⁵	1,687	24,427	9,143	37.4	7.42	\$7.50	\$508,808	210,289	\$946,301
<u>2010</u>	2,051	31,881	26,508	83.1	7.50	\$13.00	\$2,584,530	609,684	\$2,743,578
<u>2011</u>	2,595	35,760	32,325	90.4	7.42	\$17.00	\$4,077,476	743,475	\$3,345,638

- 1 Does not include Salvador WMA harvests from 1972-2003 and Marsh Island experimental, nuisance, and farm harvests from 1972-present.
 - 2 The bonus tag program was initiated in 1999 to increase the overall number of wild alligators harvested without putting any additional pressure on the 6' and over portion of the wild population. The bonus tag program was suspended in 2009.
 - 3 Sale of meat not permitted; La. Health Department regulations first allowed meat sales in 1979.
 - 4 Bone in from 1979-1984, deboned from 1985-present.
 - 5 Worldwide economic recession caused alligator hide demand to decline dramatically.
- Subject to change, numbers updated October 17, 2012.

Table 3. Louisiana Alligator Ranching, 1986-2011

Year	Total Eggs Permitted	Number Collected	Percent Collected	Number Hatched	Alligators Returned to Wild
1986	2,903	2,903	100.0%	1,985	none
1987	19,641	18,041	91.9%	13,782	none
1988	90,305	64,887	71.9%	50,394	1,680
1989	265,051	181,819	68.6%	137,323	7,078
1990	366,055	293,412	80.2%	231,434	6,088
1991	333,451	198,089	59.4%	165,054	44,405
1992	297,125	164,892	55.5%	133,463	35,531
1993	279,405	155,891	55.8%	123,666	28,512
1994	362,835	266,408	73.4%	223,011	21,633
1995	402,830	314,371	78.0%	261,428	20,749
1996	467,545	279,237	59.7%	233,076	40,919
1997	476,115	377,636	79.3%	321,641	48,171
1998	539,216	280,870	52.1%	240,118	36,733
1999	574,731	382,611	66.6%	332,428	44,169
2000	593,625	279,217	47.0%	236,313	39,559
2001	616,465	354,636	57.5%	294,405	48,288
2002	639,145	354,523	55.5%	304,448	32,716
2003	651,207	357,757	54.9%	307,805	50,657
2004	619,730	397,569	64.2%	350,661	47,431
2005	694,694	507,315	73.0%	441,298	35,752
2006	739,844	271,790	36.7%	224,724	40,694
2007	766,115	501,075	65.4%	426,385	61,913
2008	801,679	529,527	66.1%	459,928	48,578
2009 *	400,875	29,822	7.4%	25,077	54,391
2010	710,204	205,261	28.9%	173,483	27,121
2011	785,254	353,176	45.0%	300,546	14,357
Total	12,496,045	7,122,735	57.0%	6,013,876	837,125

* Worldwide economic recession caused alligator hide demand to decline dramatically.
Updated January 25, 2012

Table 4. Farm Alligator Harvest in Louisiana, 1972-2011 ¹

Year ¹	No. Farms		No. Skins	Avg T. L.	Skin Value		Meat ³	
	Licensed	Sold	Skins	in Feet	Avg/foot	Total	Amount (lbs)	Value
1972	8	3	35	5	\$8.10	\$1,418	²	²
1973	8	5	103	6.33	\$13.13	\$8,561	²	²
1975	8	3	83	5.5	\$7.88	\$3,597	²	²
1976	8	3	360	5.75	\$16.55	\$34,259	²	²
1977	8	4	376	5.25	\$12.23	\$24,142	²	²
1980	8	1	191	4.67	\$13.00	\$11,596	957	\$3,342
1981	8	3	360	4.67	\$17.50	\$29,421	1,801	\$6,300
1982	8	1	113	4	\$13.50	\$6,102	452	\$1,582
1983	14	6	1,449	4.58	\$13.00	\$86,273	7,253	\$25,357
1984	12	7	2,836	4.25	\$21.00	\$253,113	11,354	\$39,704
1985	15	12	4,430	4.25	\$21.00	\$395,378	17,736	\$79,740
1986	22	15	5,925	4.5	\$23.00	\$613,238	26,687	\$119,983
1987	30	23	10,670	4.42	\$24.00	\$1,131,874	48,060	\$216,067
1988	47	38	27,749	4.25	\$36.00	\$4,245,597	111,094	\$554,980
1989	83	68	66,737	3.98	\$32.00	\$8,499,624	300,877	\$1,202,362
1990	123	80	88,424	4.03	\$24.00	\$8,552,369	397,732	\$1,786,059
1991	134	91	118,976	4.13	\$15.00	\$7,370,563	536,379	\$2,380,000
1992	125	85	128,026	4.04	\$12.00	\$6,206,700	578,289	\$2,566,000
1993	101	70	121,700	3.87	\$17.00	\$8,006,643	388,010	\$1,720,000
1994	89	62	136,126	3.67	\$20.00	\$9,991,648	277,780	\$1,197,000
1995	83	50	125,460	3.88	\$20.00	\$9,735,696	331,395	\$1,323,000
1996	81	51	161,845	3.91	\$15.50	\$9,808,616	511,668	\$2,297,900
1997	75	36	169,988	3.74	\$16.75	\$10,648,898	542,332	\$2,435,700
1998	73	38	154,399	3.79	\$17.00	\$9,947,928	490,990	\$2,209,455
1999	64	35	187,570	3.64	\$17.00	\$11,606,832	552,693	\$2,487,119
2000	66	35	219,827	3.81	\$20.50	\$17,169,588	659,481	\$2,967,665
2001	63	32	180,391	3.79	\$20.50	\$14,015,479	541,173	\$2,435,279
2002	62	32	237,808	3.73	\$23.50	\$20,845,060	713,424	\$3,210,408
2003	61	32	277,604	3.81	\$24.00	\$25,384,110	832,812	\$3,747,654
2004	58	32	297,376	3.87	\$26.00	\$29,921,973	892,128	\$4,014,576
2005	55	31	256,446	3.91	\$38.00	\$38,102,747	769,338	\$3,462,021
2006	57	29	272,570	4.05	\$42.50	\$46,916,111	817,710	\$3,679,695
Year ¹	No. Farms		No. Skins	Belly Width	Skin Value		Meat ³	
	Licensed	Sold	Skins	in cm's ⁴	Avg/cm	Total	Amount (lbs)	Value
2007	62	29	305,176	24.79	\$7.25	\$54,848,520	915,528	\$4,119,876
<u>2008</u> ⁵	60	31	290,248	26.41	\$5.50	\$42,159,973	870,744	\$3,918,348
<u>2009</u>	59	27	304,162	28.64	\$5.00	\$43,555,998	912,486	\$4,106,187
<u>2010</u> ⁶	57	20	161,918	27.50	\$6.50	\$28,942,843	485,754	\$2,185,893
<u>2011</u>	53	18	240,000	26.33	\$8.00	\$50,553,600	720,000	\$5,040,000

1 Tag year extends from September of the year designated to the next September (example: 1997 = 9/97 to 8/98).

2 Sale of meat not permitted; La. Health Department regulations first allowed meat sales in 1979.

3 Deboned from 1980-present.

4 Average total length for 2007 is 4.08', 2008 is 4.25', 2009 is 4.58', 2010 is 4.42' and 2011 is 4.25'.

5 Worldwide economic recession caused alligator skin price to decline dramatically.

6 Low harvest resulted from reduced egg collections in 2009 due to worldwide economic recession.

Subject to change, numbers updated November 20, 2012.

Table 5. Alligator Resource Fund Income, Expenditures, and Balance, FY 2006-2012

	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012
Severance Tax	76,166	77,224	78,112	80,485	87,725	47,795	68,548
Interest Earned	72,961	93,166	80,489	32,371	8,312	5,558	3,128
Shipping Label Fees	69,196	9,800	74,192	126,608	56	20,096	69,064
Collection Permit Fees	3,050	3,150	6,175	2,650	3,375	3,925	4,375
Alligator Hide Tag Fees	1,095,344	1,235,580	1,249,788	1,295,270	1,403,600	764,720	1,096,768
Res. Alligator Hunter Licenses				56,025	43,025	52,200	66,775
N/R Alligator Hunter Licenses				18,900	21,600	26,700	49,800
Misc income		22			4	1,736	14
Reduction by Executive Order	-79,847			-100,821			
Total Revenue	1,236,870	1,418,942	1,488,756	1,511,488	1,567,697	922,730	1,358,472
Less Expenditures	-1,230,310	-1,317,939	-1,577,739	-1,543,289	-1,495,350	-1,335,694	-1,498,044
Net annual income	6,560	101,003	-88,983	-31,801	72,347	-412,964	-139,572
Add balance from prior year	1,614,983	1,621,543	1,722,546	1,633,563	1,601,762	1,674,109	1,261,145
YEAR-END BALANCE	1,621,543	1,722,546	1,633,563	1,601,762	1,674,109	1,261,145	1,121,573

Table 6. Alligator Management Program Expenditures for Fiscal Years 2010, 2011 and 2012

Budget Category	2010	2011	2012
Personal Services	\$913,720	\$817,028	\$895,333
Travel	\$8,342	\$10,081	\$11,753
Operating Services	\$73,848	\$106,741	\$91,739
Supplies	\$56,070	\$38,109	\$58,874
Professional Services	\$0	\$56	\$112
Other Charges	\$73,456	\$68,566	\$108,435
Acquisitions	\$49,904	\$1,243	\$22,404
Major Repairs	\$2,215	\$3,679	\$1,664
Interagency Billings	\$33,404	\$33,409	\$27,293
Totals	\$1,210,959	\$1,078,912	\$1,217,607

EXHIBIT 1

2011 MARSH ALLIGATOR TAG ALLOTMENT BY PARISH

	Tag Allotment/Marsh Type		
	Brackish	Intermediate	Fresh
^(A) Cameron East	1:225	1:100	1:100
^(A) Cameron Central	1:400	1:225	1:115
^(A) Cameron West	1:225	1:100	1:130
Calcasieu	1:250	1:110	1:80
Jeff Davis			1:90
^(B) Vermilion West	1:90	1:85	1:125
^(B) Vermilion East	1:150	1:150	1:75
Iberia		1:120	1:120
St. Mary		1:65	1:65
Terrebonne	1:125	1:55	1:55
Lafourche	1:140	1:55	1:90
St. Charles	1:75	1:65	1:65
St. John the Baptist		1:55	1:55
Jefferson	1:200	1:55	1:60
Orleans	1:400	1:400	
^(C) Plaquemines West	1:250	1:150	1:55
^(D) Plaquemines East	1:400	1:90	1:55
Plaquemines Delta	1:225	1:175	1:160
St. Bernard	1:400	1:90	
St. Tammany	1:125	1:60	1:60
Tangipahoa		1:55	1:120

Cypress-Tupelo Swamp	1:160	
Dewatered Marsh	1:400	
^(E) Transitional Marsh	1:400	(except transitional marsh in Plaquemines East will be issued at the rate of 1 tag: per 300 acres)

^(A)The dividing line for Cameron East and Central is the Mermentau River, the dividing line for Cameron Central and West is the Calcasieu River/Calcasieu Lake.

^(B)The dividing line for Vermilion East and West is the Vermilion River Cutoff (4-mile cut).

^(C)Marsh west of Mississippi River.

^(D)Marsh east of Mississippi River.

^(E)Marsh areas which are characterized by a generally declining alligator population caused by degradation of habitat.

**2011 NON-MARSH ALLIGATOR TAG ALLOTMENT BY OFFICE AND PARISH
LAKE REGION**

OFFICE	PARISH	HABITAT	ACRES OF HABITAT	TAG ALLOTMENT	REMARKS
Minden	Bienville/ Bossier/ Webster	Lake Bistineau	1,720	30	Public Lake Lottery Harvest
	Caddo	Wallace Lake	2,000	20	Public Lake Lottery Harvest
	Bossier	Black/Cypress Lake	400	30	Public Lake Lottery Harvest
	Caddo	Cross Lake	500	30	Public Lake Lottery Harvest
	Caddo	Caddo Lake	1,800	10	Public Lake Lottery Harvest
	Natchitoches	Black Lake	1,000	10	Public Lake Lottery Harvest
	Bienville	Kepler Lake	250	20	Public Lake Lottery Harvest
	Jackson	Caney Lake	5,000	8	Public Lake Lottery Harvest
	Rapides	Kincaid Lake	1,000	2	Public Lake Lottery Harvest
	Winn	Saline Lake	3,000	10	Public Lake Lottery Harvest
	Saline, DeSoto	Toledo Bend	4,000	6	Public Lake Lottery Harvest
	Rapides	Cotile Lake	400	4	Public Lake Lottery Harvest
	Grant	Nantachie Lake	800	2	Public Lake Lottery Harvest
	Grant	Iatt Lake	4,000	4	Public Lake Lottery Harvest
	Rapides	Indian Creek	500	2	Public Lake Lottery Harvest
	SUB TOTAL			26,370	188
Monroe	Ouachita	Bayou Desaird	580	6	Public Lake Lottery Harvest
	Ouachita/ Morehouse	Bartholomew Lake	405	6	Public Lake Lottery Harvest
	Tensas	Big Lake WMA	1,000	15	WMA Lottery Harvest
		Buckhorn WMA	300	12	WMA Lottery Harvest
		Lake St. Joseph	800	20	Public Lake Lottery Harvest
		Lake Bruin	2,800	10	Public Lake Lottery Harvest
		Lake St. John	200	20	Public Lake Lottery Harvest
	Caldwell	Beouf WMA	2,200	36	WMA Lottery Harvest
	Concordia	Lake Concordia	800	16	Public Lake Lottery Harvest
SUB TOTAL			9,085	141	

**2011 NON-MARSH ALLIGATOR TAG ALLOTMENT BY OFFICE AND PARISH
LAKE REGION**

OFFICE	PARISH	HABITAT	ACRES OF HABITAT	TAG ALLOTMENT	REMARKS
Lake Charles	Evangeline	Chicot Lake	1,625	20	State Parks (Experimental Harvest)
	Vernon	Anacoco Lake	1,000	6	Public Lake Lottery Harvest
SUB TOTAL			2,625	26	
Opelousas	Avoyelles	Grassy Lake WMA	1,000	9	WMA Lottery Harvest
		Grassy Lake WMA		25	Highest Bidder Basis
		Spring Bayou WMA	5,000	24	WMA Lottery Harvest
		Spring Bayou WMA		70	Highest Bidder Basis
		Pomme-de-Terre WMA	800	12	Highest Bidder Basis
Opelousas	Iberia/St. Martin	Attakapas WMA	26,300	25	Highest Bidder Basis
	Assumption	Elm Hall WMA	2,843	15	WMA Lottery Harvest
	Iberville, Pt. Coupee	Sherburne COE Lands	3,300	33	Highest Bidder Basis
	Iberville, St. Martin, Pt. Coupee	Sherburne WMA	11,780	12	WMA Lottery Harvest
	Concordia	Three Rivers WMA	4,500	60	WMA Lottery Harvest
		Red River WMA	3,500	51	WMA Lottery Harvest
	La Salle	Dewey Wills WMA	8,000	25	Highest Bidder Basis
SUB TOTAL			67,023	361	
LAKE REGION TOTALS			105,103	716	Experimental Harvests

**2011 NON-MARSH ALLIGATOR TAG ALLOTMENT BY OFFICE AND PARISH
CYPRESS-TUPELO SWAMP REGION**

OFFICE	PARISH	ACRES OF HABITAT	TAG ALLOTMENT	ACRES/TAG	REMARKS
Opelousas	Iberville	29,880	187	160	Tag allotment based upon review of prior years harvest statistics, night counts and alligator model.
	Lafayette	1,200	8	160	
	Pointe Coupee	1,000	6	160	
	W. Baton Rouge	7,040	44	160	
SUB TOTAL		39,120	245	160	
Baton Rouge	Ascension	40,320	252	160	Tag allotment based upon review of prior years harvest statistics, night counts and alligator model.
	E. Baton Rouge	2,000	13	160	
	Livingston	66,720	417	160	
	Tangipahoa	36,181	226	160	
SUB TOTAL		145,221	908	160	
New Orleans	St. Charles	39,340	246	160	Tag allotment based upon review of prior years harvest statistics, night counts and alligator model.
	St. James	76,960	481	160	
	St. John	104,320	652	160	
SUB TOTAL		220,620	1,379	160	
New Iberia - Bourg	Assumption	98,560	616	160	Tag allotment based upon review of prior years harvests statistics, night counts and alligator model.
	Iberia	31,550	197	160	
	Lafourche	112,350	702	160	
	St. Mary	60,190	376	160	
	Terrebonne	43,014	269	160	
SUB TOTAL		345,664	2,160	160	
SWAMP TOTAL		750,625	4,692	160	

ATCHAFALAYA BASIN ALLIGATOR HABITAT

REGION	ACREAGE	DESCRIPTION
A. Henderson Lake	15,000	Bounded on the west by the West Guide Levee, on the North by Little Fordoche Bayou, on the east by the Haha Bay and Gim Slough and on the south by La. Hwy. 3177.
B. Crook Chen Cove- Buffalo Cove	32,000	Beginning at the northwest corner of Attakapas W.M.A.: A line north along Lake Fausse Point Cut to Bayou Benoit; west to the West Guide Levee, north to the East-West Canal located approximately 3 miles south of Catahoula, La.: East approximately 2 miles to canal; southeast on the same canal to Bayou Crook Chene; east to the main channel of the Atchafalaya River; south to the north boundary of Attakapas W.M.A.; west to point of beginning.
C. Spike Bay-Berry Lake	8,000	Beginning at a point 1-1/2 miles northwest of Bayou Sorrel Landing; west along canal 5 miles; south along Spike Bay for 2 miles; east to intersect Bayou Sorrel then continue east along Bayou Sorrel to East Guide Levee; north to point of beginning.
D. Upper Grand River Flats	12,000	Beginning at Upper Grand River Landing; north along East Guide Levee approximately 9 miles to a canal running northwest; northwest along that canal 2-1/2 miles to King's Ditch; south approximately 5 miles to include Billy Little Lakes; southeast approximately 4 miles to intersection of Upper Grand River and Little Tensas Bayou, east along Upper Grand River to point of beginning.
E. Bayou Pigeon-Belle River-Flat Lake	140,000	Beginning at Bayou Pigeon Landing; south along East Guide Levee to Morgan City (excluding Flat Lake); north-northwest along east side of the main channel of Six Mile Lake approximately 10 miles to 21-Inch Canal; northeast on 21-Inch Canal to Bayou Boutte; north on Bayou Boutte to the east boundary line of Attakapas W.M.A.; then north along its east boundary to Grand Lake; north along the east bank of Grand Lake to Keelboat Pass; northeast along Keelboat Pass and Flat Lake Pass to intersection of Williams Canal and a canal running southwest-northeast; northeast along that canal to intersection of Intracoastal Canal (East Guide Levee); south to Bayou Pigeon Landing.
TOTAL ALLIGATOR HABITAT WITHIN BASIN TYPE	207,000	Tags may be issued at the rate of one tag per 400 acres of habitat.

2011 NON-MARSH ALLIGATOR TAG ALLOTMENT BY REGIONS

REGION	ACRES OF HABITAT	ALLOTMENT	ACRES/TAG	REMARKS
Public Lakes/Non-Coastal WMAs	105,103	716		Includes public lakes and non-coastal Wildlife Management Areas. Tag allotment may vary depending on alligator populations.
Cypress-Tupelo Swamp	750,625	4,692	160	Swamp habitat outside the Atchafalaya Basin.
Atchafalaya Basin	207,000	518	400	That portion of the Atchafalaya Basin determined to be Cypress-Tupelo swamp containing permanent water as determined by aerial observations as well as approximately 400 miles of travel by boat during April-June, 1985.
GRAND TOTAL	1,062,628	5,926		

Additionally: Any private cypress-lake region habitat or coastal marsh alligator habitat determined by Department personnel to have a reproducing population may be issued tags at the rate of one tag per 80 acres of habitat; exceptionally dense alligator populations on a localized area may be issued tags at the rate of 1 tag per 25 acres of habitat (requires coordination and annual evaluation with Coastal and Nongame Resources or Wildlife Division personnel). In areas containing minimal acreage of isolated parcels of non-contiguous wetland habitat, an individual landowner may apply for an alligator harvest tag to remove an alligator from his property during the open alligator season. Such habitats include fresh marsh, cypress-tupelo swamp, lake habitat, ponds/borrow pits.

Approved by:

Robert J. Barham, Secretary
La. Dept. of Wildlife and Fisheries

7-20-2011

DATE