

## *Louisiana Wildlife Action Plan*

### **Corrigenda**

This document is a Corrigenda for the previously published *Louisiana Comprehensive Wildlife Conservation Strategy (Wildlife Action Plan)* (Lester, Gary D., *et al.* 2005. Louisiana Comprehensive Wildlife Conservation Strategy. Louisiana Department of Wildlife and Fisheries. Baton Rouge, Louisiana. 455 pp.). The *Wildlife Action Plan* was approved by the U.S. Fish and Wildlife Service on

These corrections are arranged by the Chapters and sections of the *Wildlife Action Plan* (a.k.a. WAP). Chapters or sections not included herein have no errors identified.

This Corrigenda addresses only minor misspellings, incorrect sentence structure, or incorrect cross-referencing of text or tables. No changes have been made to any of the “8 elements” required by the U.S. Fish and Wildlife Service. There are no changes to the listed species of conservation concern or priority habitats. There are no changes in conservation strategies.

Errors and inconsistencies have been identified through the course of using the WAP as a reference for conservation and management. This Corrigenda should not be considered an exhaustive list of needed corrections. Additional changes or re-structuring may be required at a later date.

The LDWF plans a major revision of the WAP circa 2015. This anticipated revision will address changes of congressional mandates, changes in Louisiana Department of Wildlife and Fisheries (LDWF) priorities, and / or changes in the legislation authorizing the federal State Wildlife Grant program. According to U.S. Fish and Wildlife Service guidance, major revisions require public involvement and comment. Major revisions to a state’s Wildlife Action Plan must be approved by the U.S. Fish and Wildlife Service. This Corrigenda has been determined to be a minor revision (U.S. Fish and Wildlife Service letter, October 26, 2007). As such, revisions to the species included, the habitats described, or the conservation strategies discussed are outside the scope of this Corrigenda.

## TITLE AND ACKNOWLEDGEMENT PAGE

There are two minor errors in the acknowledgements and suggested citation information. The corrected text is indicated below in blue.

### Contributing Authors

Doug B.\_Albert (i.e., insert space)

### Suggested citation:

LESTER, GARY- D., STEPHEN G. SORENSON, PATRICIA L. FAULKNER, CHRISTOPHER S. REID, AND INES MAXIT. 2005. Louisiana Comprehensive Wildlife Conservation Strategy. Louisiana Department of Wildlife and Fisheries. Baton Rouge, Louisiana.  
(i.e., remove superfluous period after “Gary”)

## EXECUTIVE SUMMARY

The executive Summary has only one minor correction in the first sentence. Below is the corrected sentence, with the added text in blue.

### Change FIRST SENTENCE To:

Louisiana serves as a permanent or temporary home to over 900 species of vertebrate animals and an unknown number of invertebrate species.

## TABLE OF CONTENTS

The Table of Contents contains inconsistencies in formatting. Some page numbers and Section Headings do not match the actual page or content, respectively. Below is the corrected Table of Contents (corrected chapters only), with the added or corrected lines in blue.

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The List of Figures is not correctly indexed to page numbers. Below is the corrected List of Figures, with the single corrected page number in blue.

### Change LIST OF FIGURES To:

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## LIST OF ACRONYMS

Several omissions and superfluous acronyms were included in the final list presented on page xix. Below are the corrected acronyms, with explanations provided underneath.

### Deletions:

BSG	Bird Study Group <sup>2</sup>
CZMA	Coastal Zone Management Act <sup>1</sup>
GSMFC	Gulf States Marine Fisheries Commission <sup>1</sup>
IBA	Important Bird Area <sup>1</sup>
LCES	Louisiana Cooperative Extension Service <sup>2</sup>
LCRP	Louisiana Coastal Resources Program <sup>1</sup>
LDED	Louisiana Department of Economic Development <sup>1</sup>
LPB	Lake Pontchartrain Basin <sup>2</sup>
PCB	Polychlorinated biphenyl <sup>1</sup>
TPWD	Texas Parks and Wildlife Department <sup>2</sup>

The above acronyms should be deleted for the following reasons:

<sup>1</sup> Neither the acronym nor the full item was found in the WAP text.

<sup>2</sup> The item / entity was in the WAP text but was never abbreviated or did not occur frequently enough to warrant abbreviation.

### Additions:

RTE            Rare, threatened, and endangered species

This acronym occurred in Chapter 1 and was defined in the text. However, it was omitted from the acronym list, and should be added.

## CHAPTER 1. INTRODUCTION

Several minor corrections or revisions are required in Chapter 1. These are organized below according to the section and sub-section in which the required changes occur. Below are the corrected sentences, with the corrected text in blue.

### A. 2. Five-year Plan 2006-2010: (pg. 1)

“CWCS” had not yet been defined in the main text body. Final sentence, change to:

The strategic plan is currently undergoing a revision and it is anticipated that many of the recommendations of the [Comprehensive Wildlife Conservation Strategy \(CWCS\)](#) will be incorporated into the revision.

### B. 2. Congressional Mandate and Guidance: (pp. 2-3)

Revision required by the revision in A.2., above. Change final sentence of first paragraph to:

In creating these new funding measures, Congress also required each state and territory to develop a [CWCS](#) by October 1, 2005.

### C. 3. Goals and Objectives: (pp. 4-6)

Revision to Goal 4 to make it consistent with Goal 4, as listed in Table 8.7, pg. 329. Change Goal 4 text to:

#### Goal 4: Partnerships (pg. 5)

Improve existing partnerships and develop new partnerships between LDWF and State and Federal natural resource agencies, non-governmental organizations and environmental groups, private industry, [academia, and the general public](#).

Also, the final sentence of sub-section C.3. is ambiguous. In reference to a habitat v. species approach, change the final sentence of sub-section C.3. to:

To be successful in accomplishing [Habitat and Species Conservation objectives](#), LDWF will include a diverse array of stakeholders made up of federal, state, and local government agencies, non-governmental organizations (NGO's), businesses and industry, and private landowners in the development and implementation of the CWCS.

### C. 5. Looking to the Future: (pg. 7)

An acronym was not defined and not properly cross-referenced to the List of Acronyms (pp. xix – xxi). In the bulleted list of CWCS evaluation questions to be asked, change the 6<sup>th</sup> bullet text to:

- Were new [Memoranda of Understanding \(MOU\)](#) completed with partners?

## CHAPTER 2. STATE OVERVIEW

Several minor corrections or revisions are required in Chapter 2. These are organized below according to the section and sub-section in which the required changes occur. Below are the corrected sentences, with the corrected text in blue.

### A. 2. Geology: (pg. 9)

In the discussion of the geologic age of Louisiana's soil, the term "age" was incorrectly used to describe the tertiary geologic time unit. "Age" is a sub-epoch unit of geologic time, whereas the Tertiary time unit is a "Period". Similarly, the percentages given to total the origin of sediments shifts between "Epoch" (Holocene and Pleistocene, not identified as Epochs) to "Period" (incorrectly called "age"). In the first paragraph, change the first and second sentences to:

Geologically, most (80%) of Louisiana's surface area consist of Quaternary **Period** sediments. Holocene alluvial sediments deposited by the Mississippi, Red, Ouachita, and other rivers constitute 55% of the surface area, and 25% of the state's surface is occupied by deposits associated with Pleistocene terraces. **The** final 20% comprises strata of Tertiary **Period sediments**, principally on the Sabine uplift...

### B. 1. Land Ownership: (pg. 13)

An acronym is not defined in a citation. Change the citation in the second paragraph, second sentence to:

Private, non-industrial landowners own 62% of the state's forestland, forest product industries own 29%, and the remaining 95 is in state or federal ownership (**Louisiana Department of Agriculture and Forestry** 2004).

### D. 1. Terrestrial Systems:

At the end of the introductory paragraph, add:

**Following are summaries of each ecoregion and major public landowners. Complete listings of public managed land are provided in Appendix A.**

**D. 1. b. Upper East Gulf Coastal Plain: (pg. 17)**

Change the last few sentences of the summary to include portions of the Louisiana State Penitentiary.

The only state WMA is Tunica Hills. State historic sites include Locust Grove and Audubon. Portions of the Louisiana State Penitentiary lie within the UEGCP, including over 10,000 acres of agriculture/cropland/grassland, and Lake Killarney. (Fig. 2.5, Appendix A).

**D. 1. d. Upper West Gulf Coastal Plain: (pg. 19)**

Add a final sentence to include a Louisiana National Guard facility.

Federal lands include the upper parts of Red River, Upper Ouachita, and D'Arbonne NWRs, and the Caney Ranger District of Kisatchie National Forest (KNF). Military lands include the Barksdale Air Force Base (AFB), and the Louisiana Army National Guard's Camp Minden.

## CHAPTER 3. APPROACH

### A. 4. Cooperation with Other States (pg. 33)

The acronym “USFWS” is first used on page 33 but is first defined on page 36.

LDWF is a member of the Southeast Association of Fish and Wildlife Agencies (SEAFWA) Ad-hoc committee that is comprised of states in the [U.S. Fish & Wildlife Service \(USFWS\)](#) Region 4.

### D. 1. Amphibians and Reptiles: (pg. 36)

In the second paragraph, “USFWS” no longer needs to be defined per correction above.

“...is considered threatened. [USFWS](#) recovery plans have been developed...”

Also in the second paragraph, the two-word term “sea turtle” is used. In most of the WAP, the one-word term “seaturtle” is used. In future revisions, this inconsistency should be corrected. Either can be appropriate, depending on the source of information. According to Jeff Boundy (who checked a herpetofauna tome), perhaps future editors should consider the two-word version to use throughout.

### D. 3. Mammals: (pg. 39)

In the final paragraph, an incorrect common name is used. The name given does not match the common name used subsequently. In the final sentence of the final paragraph, correct:

As a result of their review, two bat species were added ([southeastern](#) myotis and northern myotis) and there was one recommendation to keep the ringtail in the target species list.

### E. 1. Terrestrial Habitats (pg. 43)

In the middle of the final paragraph of this section, a preposition needs to be exchanged.

Louisiana contains six ecoregions (Fig. 2.3) or areas of general similarity in ecological systems and natural resources present [in](#) those areas.

## CHAPTER 4. CONSERVATION HABITATS & SPECIES ASSESSMENTS

### A. Terrestrial Habitats (Summary list provided as Appendix G)

#### A. 13. Coastal Prairies (pp. 105-109)

An author's name was misspelled in a reference on page 107.

Ornate Box Turtle: Initiate surveys in areas identified by SWG project T20 (Lorenz et al. 2004) to update...

#### A. 20. Intermediate Marsh (pp. 144-148)

There is a minor formatting inconsistency on page 146.

*Species Conservation Strategies:*

4. Whooping Crane:  
Continue to work with...

#### A. 26. Salt Marsh (pp. 171-174)

The rarity rank listed is incorrect.

*Rarity Rank:* S3S4 / G5

#### A. 33. Spruce Pine-Hardwood Flatwood (pp. 203-206)

Correct a misspelling / punctuation error.

*Priority Species Research and Survey Needs:*

Southeastern Shrew: Together with Arkansas and Missouri, Louisiana represents...

## B. 2. Marine Habitats (pp. 282-291)

The table summarizing marine species of conservation concern did not include two seaturtles that are included in Appendix F.

<b>MARINE SPECIES OF CONSERVATION CONCERN (21)</b>		
<b>MAMMALS</b>	Diamond Killifish	Broad Flounder
Sperm Whale	Texas Pipefish	Large-scaled Spinycheek Sleeper
Fin Whale	Chain Pipefish	Goliath Grouper
West Indian Manatee	Opossum Pipefish	
	Emerald Sleeper	<b>REPTILES</b>
<b>MARINE FISH</b>	Violet Goby	Loggerhead Seaturtle
Saltmarsh Topminnow	Gold Brotula	Green Seaturtle
Bayou Killifish	Longfin Mako	<a href="#">Atlantic Hawksbill Seaturtle</a>
		<a href="#">Kemp's Ridley Seaturtle</a>
		Leatherback Seaturtle

## CHAPTER 5. GENERAL CONSERVATION STRATEGIES

### C. 3. Education / Outreach: (pg. 297)

Although the term “right-of-way” is used several times in previous sections of the WAP, the acronym has not been used until Chapter 5. Here, we define the acronym. However, future revisions of the WAP should define the acronym after the first use of the term “right-of-way” rather than the first use of the acronym.

- Produce a set of BMPs for improving wildlife habitat in utility [rights-of-way \(ROW\)](#).

### C. 4. Invasive Species: (pg. 297)

Another acronym is not defined.

- Partner with local hunting clubs through [the Deer Management Assistance Program \(DMAP\)](#) to support wild hog eradication.

### C. 5. Working with Legislators: (pp. 297-298)

The last bullet point on page 297 is replicated as the first bullet point on page 298. The duplicate bullet point should be deleted in future WAP revisions.

## CHAPTER 6. DEVELOPING PARTNERSHIPS

Errors in Chapter 6 are few and minor. Generally, they consist of mistyped acronyms. The only other error was in the opening paragraph, where a reference is less precise than it should have been.

In the opening paragraph, change the last sentence as follows:

The list of organizations LDWF invited to focus meetings (Chapter 3, Sections A.2 – A.4) illustrates a new attempt at expanding its partnerships.

The following revisions are for line items in a multi-page table. Acronym corrections include:

### **LANDOWNERS (corporations and individuals):**

Pg. 300

BARRIER ISLAND LIVE OAK FOREST	Partner with NGOs (TNC, LOS, <del>NOS</del> NAS), state and federal agencies, industry, and private landowners to promote the conservation of remaining barrier island live oak forests.
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Pg. 301

<b>LANDOWNERS (cont)</b>	
LIVE OAK NATURAL LEVEE FOREST	Partner with <del>NHOs</del> NGOs, private landowners, etc. promote protection of live oak forests and to encourage landowners to enroll this habitat in the Natural Areas Registry Program.

### **LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY:**

Pg. 303

SMALL STREAM FOREST	Form a committee composed of gravel mining interests, <del>DEQ</del> -LDEQ, LDNR, TNC, and other interested groups to develop BMPs for current and proposed gravel mines to prevent or reduce their impacts to streams and surrounding forest habitat.
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## CHAPTER 7. CONSERVATION PRIORITIES

The terms “Tier I” and “Tier II” are defined and explained in Chapter 3, pages 49-50. Habitat priorities discussed throughout the WAP are summarized in Chapter 7. For most entries, Tiers I and II are displayed in the Table correctly. However, a few habitat types meet the definition of Tier II but are incorrectly listed in the Table as Tier I. The corrected test is in blue.

<b>ECOREGION</b>	<b>TIER I HABITATS</b>	<b>TIER II HABITATS</b>
<b>EGCP</b>		
	Eastern longleaf pine savannah	Mixed hardwood-loblolly pine/hardwood slope forest
	Eastern upland longleaf pine forest	Shortleaf pine/oak-hickory forest
	Slash pine-pondcypress hardwood forest	Bottomland hardwood forest
	Live oak-pine-magnolia forest	Small stream forest
	Spruce pine-hardwood flatwood	Bayhead swamp/forested seep
	Eastern hillside seepage bog	Cypress-tupelo-blackgum swamp
		Agriculture-crop-grassland
<b>UWGCP</b>		
		Shortleaf pine/oak-hickory forest
		Mixed hardwood-loblolly pine / hardwood slope forest
		Hardwood flatwood
		Western xeric sandhill woodland
		Small stream forest
		Bottomland hardwood forest
		Bayhead swamp / forested seep
		Cypress-tupelo-blackgum swamp
		Calcareous prairie
		Calcareous forest
		Saline prairie
		Agriculture-crop-grassland
<b>LWGCP</b>		
	Western longleaf pine savannah	Shortleaf pine/oak-hickory forest
	Western upland longleaf pine forest	Mixed hardwood-loblolly pine / hardwood slope forest
	Sandstone glade/barren	Small stream forest
	Western hillside seepage bog	Saline prairie

<b>ECOREGION</b>	<b>TIER I HABITATS</b>	<b>TIER II HABITATS</b>
<b>LWGCP cont...</b>		
		Bottomland hardwood forest
		Bayhead swamp / forested seep
		Cypress-tupelo-blackgum swamp
		Calcareous prairie
		Western xeric sandhill woodland
		Calcareous forest
		Agriculture-crop-grassland
<b>MRAP</b>		
		Bottomland hardwood forest
		Cypress-tupelo-blackgum swamp
		Live oak natural levee forest
		Hardwood flatwood
		Agriculture-crop-grassland
		<a href="#">Sandbar</a>
		<a href="#">Batture</a>
<b>GCPM</b>		
	Intermediate marsh	Live oak natural levee forest
	Salt marsh	Bottomland hardwood forest
	Coastal prairie	Cypress-tupelo-blackgum swamp
	Brackish marsh	Agriculture-crop-grassland
	Freshwater marsh	
	Barrier island live oak forest	
	Barrier islands	
	Coastal live oak-hackberry forest	
	Salt dome hardwood forest	
	Vegetated pioneer emerging delta	
	Coastal dune grassland/shrub thicket	
	Coastal mangrove-marsh shrubland	
<b>UEGCP</b>		
	Southern mesophytic forest	Small stream forest
		Agriculture-crop-grassland

## CHAPTER 8. RESEARCH AND MONITORING

There is an inconsistent sentence structure in the opening bullet list. In the opening paragraph, change the list as follows:

Research and monitoring aspects of this plan are complex. Clearly **they should:**

- **Be hypothesis**-driven with clearly defined objectives
- **Be based** on sensitive indicators of change
- **Be based** on mechanistic or causal relations between indicators and system state
- **Have a** sampling strategy appropriate for detecting change
- **Have a** format and framework for organizing, **analyzing, storing,** and retrieving **the** monitoring data
- **Have a** procedure for incorporating monitoring results into future decision making

### C. 1. Aquatic Habitats and Species:

#### C.1.a. Freshwater (pg. 319)

In the third paragraph, correct the misspelled word.

Monitoring efforts will be geared toward identifying trends in the current range and abundance of these species, **particularly** the Asian carps and Zebra mussel, and what impact they are having on native species.

#### D. Measuring Strategy Success: (pg. 324)

The first sentence, third paragraph, on page 313 references a need for biological and programmatic monitoring. On page 316, Section C “Biological Monitoring” is clearly indicated. However, Section Title D is less clear. Therefore, Section D title should be changed as follows:

#### **D. Programmatic Monitoring – Measuring Strategy Success**

**Table 8.8. Effectiveness of the strategies: (pg. 329)**

Correct the misspelling under “Adaptive management...” (fourth row, third column)

<b>Work Level</b>	<b>Time Scale</b>	<b>Types of Evaluation Questions</b>	<b>Conducted By</b>
Individual Projects	Semi-annual reporting	Did the project occur? Did it stay within budget? Did it use funds as planned? Are budgeting proportions accurate? Who did the work?	District Biologists; Program Supervisors, and staff
Adaptive management of project	Annual	Based on evaluation, how should future projects be changed or retained?	District Biologists; Program Supervisors, and staff
CWCS conservation actions (Program-level strategies)	Annually	What is the status of the desired outcomes associated with each activity, as measured by performance indicators?  Are the performance indicators valid measures?  Are the individual projects meeting the conservation actions called for in the CWCS?	Program supervisors, Core Committee
Adaptive management of conservation actions	Annually	Based on evaluation, how should future program-level activities and project <b>be</b> changed or retained?	Program supervisors, Core Committee
CWCS goals	Every 10 years	Are the conservation actions meeting the state’s goals of the Louisiana CWCS?	Program supervisors, Core Committee

## APPENDIX A – MANAGED AREAS BY ECOREGION

Appendix A was assembled using Geographic Information System data available to the LDWF at the time the CWCS was being drafted. These data are updated and expanded each year. New public areas are purchased, additional private land is placed under conservation agreements, and previously conserved land may change status. Future revisions of the CWCS should include a thorough review and updating of Appendix A and the associated maps and tables.

While the data in Appendix A were correct at the time the WAP was published, there are a few omissions or corrections that should be included in future revisions.

### **Mississippi River Alluvial Plain:**

Add Louisiana State Penitentiary.

### **Upper East Gulf Coastal Plain:**

Add Louisiana State Penitentiary;  
Add Locust Grove State Commemorative Area.

### **Upper West Gulf Coastal Plain:**

Consider changing name of “La Army Ammunition Plant” to “Louisiana Army National Guard – Camp Minden”.

## APPENDIX G – LOUISIANA TERRESTRIAL HABITATS

There is an inconsistency regarding Western Upland Longleaf Pine Forest. Throughout most of the CWCS, the Western Upland Longleaf Pine Forest habitat is considered a Tier I habitat – only occurring in the Lower West Gulf Coastal Plain ecoregion. It is reported as only occurring in the Lower West Gulf Coastal Plain in Chapter 7 and in Appendix M. The parish distribution map in Chapter 4 includes parishes that lie on the border of two ecoregions, but these maps are not intended to specify where in those parishes the habitat occurs.

A data review was completed for the WAP Corrigena, and the LDWF Natural Heritage Program confirmed that the Western Upland Longleaf Pine Forest habitat is a Tier I habitat – occurring in the Lower West Gulf Coastal Plain ecoregion. Appendix G should be corrected as noted below.

(Only a portion of Appendix G is reproduced here).

<b>UPLAND</b>								
Coastal Dune Grassland/Shrub Thicket	S1S2	G2G3						X
Calcareous Prairie	S1	G1	X	X				
Saline Prairie	S1	G1G2	X	X				
Southern Mesophytic Forest	S2S3	G1G2					X	
Calcareous Forest	S2	G2?Q	X	X				
Salt Dome Hardwood Forest	S1	G1						X
Coastal Live Oak-Hackberry Forest	S1S2	G2						X
Barrier Island Live Oak Forest	S1	G1						X
Shortleaf Pine/Oak-Hickory Forest	S2S3	G2G3	X	X				X
Mixed Hardwood-Loblolly Pine/Hardwood Slope Forest	S3S4	G4	X	X				X
Live Oak-Pine-Magnolia	S2	G2G3						X
Spruce Pine-Hardwood Flatwood	S1	G1G2						X
Eastern Upland Longleaf Pine Forest	S1S2	G1G2						X
<b>Western Upland Longleaf Pine Forest</b>	<b>S2S3</b>	<b>G2G3</b>	<b>X</b>	<b>X</b>				
Western Xeric Sandhill Woodland	S2S3	G2G3	X	X				
Sandstone Glade/Barren	S1S2	G1G2		X				
Agriculture-Cropland-Grassland	NR	NR	X	X	X	X	X	X

## APPENDIX M – TERRESTRIAL HABITAT PRIORITIES

There are a few minor errors in the terrestrial habitat tables that comprise Appendix M. Only the corrected portions of the tables are included below.

### Gulf Coast Prairies and Marshes (pg. 424)

GULF COAST PRAIRIES AND MARSHES												
Systems(Target) Viability	Size		Condition		Landscape Context		Viability Rank		Occur only in GCPM	Matrix (M) Secondary (S)	State Rank	Global Rank
	Grade		Grade		Grade							
Brackish Marsh	Fair		Fair		Fair		Fair		X	M	S3S4	G4?
Freshwater Marsh	Fair		Fair		Poor		Fair		X	M	S1S2	G3G4
Intermediate Marsh	Poor		Poor		Poor		Poor		X	M	S3S4	G4?
Salt Marsh	Poor		Poor		Poor		Poor		X	M	S3S4	G5
Barrier Islands	Poor		Good		Poor		Fair		X	S	N/A	N/A
Vegetated Pioneer Emerging Delta	Fair		Good		Fair		Fair		X	M	S1	G2Q
Coastal Prairie	Poor		Poor		Poor		Poor	→	X	S	S1	G1
Bottomland Hardwood Forest	Good		Good		Fair		Good	→	X	S	S4	G4G5
Salt Dome Hardwood Forest	Good		Fair		Good		Good		X	S	S1S2	G2
Coastal Live Oak-Hackberry Forest	Poor		Poor		Poor		Poor		X	S	S2S3	G3G4
Coastal Dune Grassland/Shrub Thicket	Fair		Fair		Good		Fair		X	S	S1S2	G2G3
Cypress-Tupelo-Blackgum Swamp	Good		Fair		Fair		Fair			S	S4	G3G5
Coastal Mangrove-Marsh Shrubland	Fair		Good		Fair		Fair		X	S	S3	G2?
Live Oak Natural Levee Forest	Poor		Fair		Poor		Poor			S	S1S2	G2
Barrier Island Live Oak Forest	Poor		Poor		Poor		Poor		X	S	S1	G1
Agriculture/Cropland/Grassland												

Mississippi River Alluvial Plain (pg. 426)

MISSISSIPPI RIVER  
ALLUVIAL PLAIN

Systems(Target) Viability	Size		Condition		Landscape Context		Viability Rank		Occur only in MRAP	Matrix (M) Secondary (S)	State Rank	Global Rank
	Grade		Grade		Grade							
Bottomland Hardwood Forest	Fair		Fair		Fair		Fair			M	S4	G4G5
Batture	Good		Fair		Fair		Fair	→	✘	S	S4S5	G4G5
Hardwood Flatwoods	Poor		Fair		Poor		Poor			S	S2S3	G2G3
Cypress-Tupelo-Blackgum Swamp	Good		Good		Good		Good			M	S4	G3G5
Live Oak Natural Levee Forest	Poor		Fair		Poor		Poor			S	S1S2	G2
Sandbars	Good		Fair		Good		Good	→	✘	S	S4S5	G4
Agriculture/Cropland/Grassland												

**Mississippi River Alluvial Plain continued (pg. 426)**

**MISSISSIPPI RIVER  
ALLUVIAL PLAIN**

HABITAT PRIORITIES	Tier-2						
	1	2	3	4	5	6	7
<b>Active Threats - Mississippi River Alluvial Plain</b>	Sandbars	Batture	Bottomland Hardwood Forest	Cypress-Tupelo-Blackgum Swamp	Live Oak Natural Levee Forest	Hardwood Flatwoods	Ag - Crop - Grassland
Operation of drainage or diversion systems	Very High	High	Medium	Low	-	-	
Invasive/alien species	-	Medium	Medium	High	High	Medium	
Residential development	-	-	Medium	Low	Very High	Medium	
Development of pipelines, roads or utilities	-	-	Medium	Low	Very High	-	
Levee or dike construction	Very High	-	-	Low	-	-	
Shoreline stabilization	Very High	-	-	-	-	-	
Recreational use	High	-	-	-	-	-	
Saltwater intrusion	-	-	-	High	High	-	
Industrial discharge	-	Medium	-	-	-	-	
Channelization of rivers or streams	-	-	High	-	-	-	
Conversion to agriculture or silviculture	-	-	-	-	-	High	
Forestry practices	-	-	Medium	Medium	-	Medium	
Commercial/industrial development	-	Medium	Medium	Medium	-	-	
Borrow pits	-	Medium	-	-	-	-	
Construction of ditches, drainage or diversion systems	-	Medium	-	Medium	-	-	
Management of/for certain species	-	Medium	-	-	-	-	
Oil or gas drilling	-	-	Medium	Low	-	-	
Crop production practices	-	-	Medium	-	-	-	
Mining practices	-	Low	-	-	-	-	
<b>Threat Status</b>	Very High	Medium	Medium	Medium	Very High	Medium	
<b># of Species of Concern</b>	5	17	27	17	16	17	30

**Note** – Gary Lester (Program Manager, Natural Heritage Program), recommended that all Habitat Priority tables in Appendix M. be revised in future revisions to clarify that habitats decrease in priority from left (highest) to right (lowest).

## Upper West Gulf Coastal Plain (pg. 428)

### Upper West Gulf Coastal Plain

HABITAT PRIORITIES (NO TIER DIVISIONS FOR UWGCP)	Tier 2											
	1	2	3	4	5	6	7	8	9	10	11	12
<b>Active Threats - Upper West Gulf Coastal Plain</b>	Shortleaf Pine/Oak-Hickory Forest	Mixed Hardwood-Loblolly Pine/Hardwood Slope Forests	Hardwood Flatwoods	Western Xeric Sandhill Woodland	Small Stream Forest	Bottomland Hardwood Forest	Bayhead Swamp/Forested Seep	Cypress-Tupelo-Black gum Swamp	Calcareous Prairie	Calcareous Forest	Saline Prairie	Ag-Crop-Grassland
Conversion to agriculture or silviculture	Very High	Very High	Very High	High	Medium	Low	-	-	High	High	-	-
Residential development	Very High	Very High	-	High	Medium	Medium	-	Medium	Medium	-	-	-
Forestry practices	High	High	High	High	Medium	Low	Low	Low	-	Low	-	-
Development of pipelines, roads or utilities	High	-	Very High	High	Low	-	Medium	-	-	-	Low	-
Invasive/alien species	Medium	Low	Low	-	-	Low	-	-	Medium	-	High	-
Dam construction	-	-	-	-	Medium	Medium	-	High	-	-	-	-
Parasites/pathogens	-	-	Low	Medium	Medium	Low	-	Medium	-	-	-	-
Fire suppression	Low	-	-	-	-	-	-	-	Medium	-	-	-
Commercial/industrial development	-	-	-	Medium	Low	-	-	-	-	-	-	-
Construction of ditches, drainage or diversion systems	-	-	Medium	-	-	-	-	-	-	-	-	-
Excessive groundwater withdrawal	-	-	-	-	-	-	Medium	-	-	-	-	-
Mining practices	Medium	-	-	-	-	-	-	-	-	-	-	-
Operation of drainage or diversion systems	-	-	-	-	-	Medium	-	-	-	-	-	-
Recreational vehicles	-	-	-	-	-	-	-	-	Medium	-	-	-
Oil or gas drilling	-	-	-	Low	Low	-	-	-	Low	-	Low	-
Log deck debris	-	-	-	-	-	-	-	-	Low	-	-	-
Management of/for certain species	-	-	-	-	-	-	-	-	Low	-	-	-
Recreational use	-	-	-	-	-	-	-	-	-	-	Low	-
<b>Threat Status</b>	Very High	Very High	Very High	High	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium
<b># of Species of Concern</b>	37	32	14	15	28	26	19	15	11	6	6	32

**Note** – Gary Lester (Program Manager, Natural Heritage Program), recommended that all Habitat Priority tables in Appendix M. be revised in future revisions to clarify that habitats decrease in priority from left (highest) to right (lowest).

## APPENDIX N – TERRESTRIAL SPECIES STRATEGIES

There are a few minor errors in the terrestrial species strategies tables that comprise Appendix N. This should not be considered an exhaustive review of Appendix N. Rather, it is a correction of those obvious errors that have been identified during routine use of the WAP since its publication. Only the corrected portions of the tables are included below.

Additionally, there is some inconsistent use of this Table. Most of the content is in fact a repetition of conservation strategies listed in the WAP text. However, some “priority species research and survey needs” are also included in this Table. Future revisions should be consistent with content. Future revisions should either include all research needs or exclude all research needs.

**Habitat Code\***

**BIRD-RELATED STRATEGIES cont. (pg. 431)**

	<b>Henslow’s Sparrow, Bachman’s Sparrow:</b>
ELPS EULPF SPOHF WLPS WULPF	· Work with landowners to encourage use of BMPs for prescribed fire management and timber harvesting techniques to improve habitat quality.
EHSB ELPS EULPF SPOHF WLPS WULPF	· Implement conservation and management recommendations of SWG projects T22 and T32 upon completion.
ELPS EULPF SPOHF WLPS WULPF	· Monitor reproductive success of <b>Bachman’s Sparrows</b> to determine limiting factors.
ELPS EULPF SPOHF WLPS WULPF	· Work with landowners to encourage use of BMPs for prescribed fire management and timber harvesting techniques to improve habitat quality.
ELPS EULPF SPOHF WLPS WULPF	· <a href="#">Work with landowners to initiate or continue the implementation of PIF bird conservation plans, conservation plans developed for amphibians and reptiles, and USFWS endangered and threatened species recovery plans over the next 10 years.</a>

**HERP-RELATED STRATEGIES (pg. 431)**

	<b>Amphibians:</b>
ELPS	· Develop educational information and management techniques to address ephemeral ponds and their importance to all amphibians, with emphasis on species of conservation concern, and make this <a href="#">information</a> available to landowners/land managers <a href="#">through technical pamphlets and the LDWF website</a> .

### MAMMAL-RELATED STRATEGIES (pg. 432)

MHLPHSF	Establish monitoring systems and protocols for target <b>bats</b> species and other mammal species associated with mixed hardwood-loblolly pine/hardwood slope forest.
MHLPHSF	<a href="#">Promote the benefits of bat colonies and roost sites and develop partnerships with landowners to encourage protection of valuable sites.</a>

### MULTI-GROUP SPECIES STRATEGIES (pg. 432)

	Promote use of appropriate silvicultural techniques to restore/manage hardwoods flatwoods for wildlife (include importance of tree species diversity, den trees for <b>birds and mammals</b> , leaf litter, etc). Snags should be retained during logging operations <a href="#">to increase the numbers available for cavity-nesting wildlife species.</a>
BHF	Promote use of appropriate silvicultural techniques to restore/manage BLH forests for wildlife (include importance of tree species diversity, den trees for <b>birds and mammals</b> , leaf litter, etc). Snags should be retained during logging operations <a href="#">to increase the numbers available for cavity-nesting wildlife species.</a>
WULPF	Promote use of appropriate silvicultural techniques to restore/manage western upland longleaf pine forests for wildlife (include importance of tree species diversity, den trees for <b>birds and mammals</b> , leaf litter, etc). Snags should be retained during <a href="#">logging operations to increase the numbers available for cavity-nesting wildlife species.</a>

### Habitat Code\*

### MULTI-GROUP SPECIES STRATEGIES cont. (pg. 433)

EULPF WULPF	Promote use of appropriate silvicultural techniques to restore/manage western upland longleaf pine forests for wildlife (include importance of tree species diversity, den trees for <b>birds and mammals</b> , leaf litter, etc). Snags should be retained during <a href="#">logging operations to increase the numbers available for cavity-nesting wildlife species.</a>
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