

Table of Contents

A NAAT Element Guide is attached to the beginning of this document.

EXECUTIVE SUMMARY III

INTRODUCTION 1

 PROJECT NEED 1

 PURPOSE 1

 BACKGROUND AND APPROACH 2

CHAPTER 1. ALABAMA’S WILDLIFE 4

 VALUE AND IMPORTANCE OF WILDLIFE 5

 IDENTIFYING SPECIES OF GREATEST CONSERVATION NEED 6

 OVERVIEW OF ALABAMA’S MAJOR WILDLIFE GROUPS 11

CHAPTER 2. WILDLIFE HABITAT—ALABAMA’S ECOLOGICAL FRAMEWORK 24

 CLIMATE 24

 ALABAMA’S LANDSCAPE 24

 ECOLOGICAL SYSTEMS AND HABITATS 40

 IDENTIFYING HABITATS 40

CHAPTER 3. MAJOR STATEWIDE CONSERVATION ISSUES AND THREATS 42

 IDENTIFYING THREATS TO ALABAMA’S WILDLIFE AND KEY HABITATS 42

CHAPTER 4. CONSERVATION ACTIONS PROPOSED 49

 IDENTIFYING AND PRIORITIZING CONSERVATION ACTIONS 49

 STATEWIDE CONSERVATION ACTIONS--ALL HABITATS 50

 STATEWIDE CONSERVATION ACTIONS -- TERRESTRIAL AND ESTUARINE HABITATS 51

 CONSERVATION ACTIONS FOR SPECIFIC TERRESTRIAL AND ESTUARINE HABITATS 54

 DRY HARDWOOD FOREST 55

 MESIC HARDWOOD FOREST 60

 WET PINE SAVANNA AND FLATWOODS 65

 FLOODPLAIN FOREST 69

 DRY LONGLEAF PINE FOREST 74

 SWAMP 79

 MARITIME FOREST AND COASTAL SCRUB 83

 BOGS AND SEEPAGE COMMUNITIES 86

 GLADES AND PRAIRIES 91

 CAVES AND MINES 96

 ISOLATED WETLAND 101

 ARTIFICIAL HABITATS 106

 BEACH AND DUNE 110

 ESTUARINE AND MARINE 115

 CLIFFS AND ROCKHOUSES 120

 SOURCES OF INFORMATION FOR TERRESTRIAL HABITATS 124

 STATEWIDE CONSERVATION ACTIONS--RIVERS AND STREAMS 129

 AQUATIC GCN SPECIES 129

 CONSERVATION ACTIONS FOR SPECIFIC RIVER BASINS OF ALABAMA 131

 TENNESSEE RIVER BASIN 132

 COOSA RIVER BASIN 141

 CAHABA RIVER BASIN 149

 BLACK WARRIOR RIVER BASIN 155

 TOMBIGBEE RIVER BASIN 162

 ALABAMA RIVER BASIN 168

CHATTAHOOCHEE RIVER BASIN.....	175
CONECUH RIVER BASIN	181
CHOCTAWHATCHEE RIVER BASIN.....	186
TALLAPOOSA RIVER BASIN.....	191
YELLOW RIVER BASIN	196
MOBILE RIVER BASIN	201
ESCATAWPA RIVER BASIN	205
BLACKWATER RIVER BASIN.....	209
PERDIDO RIVER BASIN	213
SOURCES OF INFORMATION FOR AQUATIC HABITATS	216
PRIORITY AREAS FOR CONSERVATION	221
IMPLEMENTING THIS STRATEGY AND THE IMPORTANCE OF PARTNERING	229
CHAPTER 5. CWCS MONITORING, EVALUATION, AND ADAPTIVE MANAGEMENT	230
CRITERIA FOR MEASURING SUCCESS	236
CWCS PLAN REVIEW AND REVISION.....	238
CHAPTER 6. CWCS COORDINATION	241
CWCS ORGANIZATIONAL INFRASTRUCTURE.....	241
PUBLIC AND STAKEHOLDER PARTICIPATION.....	246
REFERENCES CITED	250
LIST OF ACRONYMS.....	266
APPENDIX 1-1 LOCAL, STATE, REGIONAL AND NATIONAL RESOURCES	268
APPENDIX 1-2 CHANGES FROM <i>ALABAMA WILDLIFE</i>	279
A. STATUS AND NOMENCLATURAL CHANGES.....	279
B. CRAYFISHES OF ALABAMA LIST	282
C. BLACKMOUTH SHINER SPECIES ACCOUNT	293
APPENDIX 1-3 SPECIES OF GREATEST CONSERVATION NEED.....	295
APPENDIX 1-4 OTHER IMPERILED INVERTEBRATES	304
APPENDIX 2-1 OUTSTANDING ALABAMA WATERWAY DESIGNATIONS.....	314
APPENDIX 5-1 EXISTING PLANS AND PROGRAMS.....	315
APPENDIX 6-1. PUBLIC INPUT PLAN PER CITIZEN PARTICIPATION	319
APPENDIX 6-2 COORDINATION WITH PARTNERS AND STAKEHOLDERS	321

List of Tables

TABLE 1-1. ALABAMA'S NATIVE ANIMAL WILDLIFE DIVERSITY	10
TABLE 1-2. MAMMALS OF ALABAMA.....	12
TABLE 1-3. BIRDS OF ALABAMA	14
TABLE 1-4. AMPHIBIANS OF ALABAMA.....	16
TABLE 1-5. REPTILES OF ALABAMA	16
TABLE 1-6. FRESHWATER FISHES OF ALABAMA.....	18
TABLE 1-7. FRESHWATER MOLLUSKS OF ALABAMA	20
TABLE 1-8 . CRAYFISHES OF ALABAMA	21
TABLE 2-1. CONDITION AND STATUS OF ALABAMA'S MAJOR RIVER BASINS	37
TABLE 2-2. HABITATS AND ASSOCIATED COMMUNITIES	41
TABLE 4-1. GCN SPECIES, DRY HARDWOOD FOREST	56
TABLE 4-2. GCN SPECIES, MESIC HARDWOOD FOREST	61
TABLE 4-3. GCN SPECIES, WET PINE SAVANNA AND FLATWOODS.....	66
TABLE 4-4. GCN SPECIES, FLOODPLAIN FOREST	70
TABLE 4-5. GCN SPECIES, DRY LONGLEAF PINE FOREST	75
TABLE 4-6. GCN SPECIES, SWAMP.....	80
TABLE 4-7. GCN SPECIES, MARITIME FOREST AND COASTAL SCRUB.....	84
TABLE 4-8. GCN SPECIES, BOGS AND SEEPAGE COMMUNITIES	87
TABLE 4-9. GCN SPECIES, GLADES AND PRAIRIES	92
TABLE 4-10. GCN SPECIES, CAVES AND MINES.....	97
TABLE 4-11. GCN SPECIES, ISOLATED WETLAND.....	102
TABLE 4-12. GCN SPECIES, ARTIFICIAL HABITATS	107
TABLE 4-13. GCN SPECIES, BEACH AND DUNE.....	111
TABLE 4-14. GCN SPECIES, ESTUARINE AND MARINE.....	116
TABLE 4-15. GCN SPECIES, CLIFFS AND ROCKHOUSES.....	121
TABLE 4-16. GCN SPECIES, TENNESSEE RIVER BASIN.....	133
TABLE 4-17. GCN SPECIES, COOSA RIVER BASIN.....	142
TABLE 4-18. GCN SPECIES, CAHABA RIVER BASIN	150
TABLE 4-19. GCN SPECIES, BLACK WARRIOR RIVER BASIN	156
TABLE 4-20. GCN SPECIES, TOMBIGBEE RIVER BASIN	163
TABLE 4-21. GCN SPECIES, ALABAMA RIVER BASIN	169
TABLE 4-22. GCN SPECIES, CHATTAHOOCHEE RIVER BASIN	176
TABLE 4-23. GCN SPECIES, CONECUH RIVER BASIN	182
TABLE 4-24. GCN SPECIES, CHOCTAWHATCHEE RIVER BASIN.....	186
TABLE 4-25. GCN SPECIES, TALLAPOOSA RIVER BASIN.....	192
TABLE 4-26. GCN SPECIES, YELLOW RIVER BASIN	197
TABLE 4-27. GCN SPECIES, MOBILE RIVER BASIN	202
TABLE 4-28. GCN SPECIES, ESCATAWPA RIVER BASIN	206
TABLE 4-29. GCN SPECIES, BLACKWATER RIVER BASIN	210
TABLE 4-30. GCN SPECIES, PERDIDO RIVER BASIN.....	214
TABLE 5-1. EVALUATION OBJECTIVES, PERFORMANCE OUTPUTS AND ANNUAL ACCOMPLISHMENT MEASURES.	236
TABLE 6-1. ALABAMA CWCS COORDINATING COMMITTEES AND STRUCTURE.....	242

List of Figures

FIGURE 1-1. MAPPED OCCURRENCES OF P1 AND P2 TAXA	9
FIGURE 2-1. ECOREGIONS OF ALABAMA	26
FIGURE 2-2. VEGETATION COVER AND LAND USE OF ALABAMA.....	33
FIGURE 2-3. CAVE BIODIVERSITY CONCENTRATIONS OF THE EASTERN U.S.	34
FIGURE 2-4. MAJOR ALABAMA RIVERS AND TRIBUTARIES	35
FIGURE 3-1. ALABAMA'S POPULATION DENSITY	45
FIGURE 3-2. RECENT POPULATION CHANGES	45
FIGURE 3-3. FOREST OWNERSHIP IN ALABAMA.....	46
FIGURE 3-4. SOURCES OF STRESS ON TNC CONSERVATION AREAS	47
FIGURE 4-1. PRIORITY AREAS FOR CONSERVATION: TERRESTRIAL AND ESTUARINE	223
FIGURE 4-2. PRIORITY AREAS FOR CONSERVATION: AQUATIC	227
FIGURE 6-1. CWCS ORGANIZATIONAL FLOW CHART	242