FISHES OF SOUTHEASTERN NATIONAL FORESTS

by
MONTE E. SEEHORN
U. S. Forest Service, Atlanta, Georgia

ABSTRACT

A survey of fish on 33 southeastern National Forests was conducted during the period July 1972 through July 1975.

Of the 470 species listed, 442 are recognized in American Fisheries Society Special Publication No. 6. Another 28 species or groups of species, recognized or under study since this publication, are also included.

The Shortnose sturgeon, *Acipenser brevirostrum*, is the only fish on the current endangered or threatened register likely found on the Forests, although 20 species of known or probable occurrence on National Forest lands have been recommended for such status.

INTRODUCTION

The 33 National Forests lying in portions of 14 southeastern states (Figure 1) total over 12 million acres available for public use. This acreage includes over 10,000 miles of fishing streams ranging in diversity of habitat from subtropical to north temperate zone fisheries. This range in habitat conditions assures a corresponding diversity in fish or wildlife fauna. Although diversity in habitat and fauna is desirable, it creates special problems for managing agencies. Each separate physiographic province must have its own special set of rules or guidelines in order to properly manage resources. For example, water quality requirements for a coastal plains warmouth fishery would be different than that required for a native brook trout stream in the southern Appalachians. This example, although extreme, applies in principle to many other species of fish. Therefore, it is important to have as complete an inventory of fish as possible before setting up management programs. Such information is especially critical where fishery programs must be coordinated with other resource management such as timber production, recreation development, mining, grazing, etc., on the same lands.

Passage of endangered species legislation in 1969 and 1973 provided authority for protection, necessitating more specific fishery information. Prior to this, surveys were generally limited or oriented toward game fishes, often lumping other fish in general categories such as "suckers", "minnows", "catfish", etc. On some Forests, practically no surveys had been completed prior to 1972, consequently the U. S. Forest Service intitated this survey.

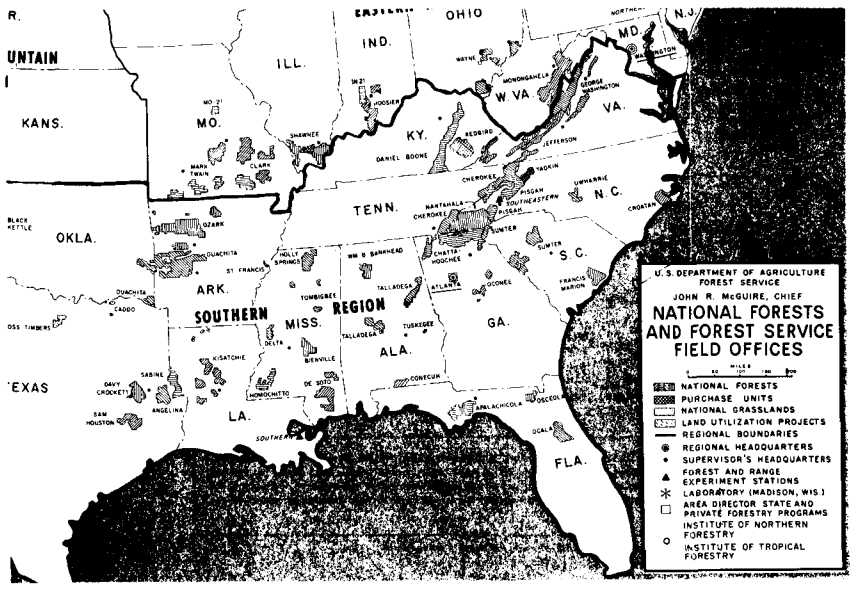

Figure 1. Southeastern National Forests.

METHODS AND DISCUSSION

Contracts were let with 10 leading ichthyologists (see acknowledgment section) and universities to inventory fishes on specified Forests. The inventory consisted primarily of a review and summary of existing survey records, a review of museum and university fish collections, and some field collecting. The overall project was coordinated with State Game and Fish agencies which, in many cases, provided both men and equipment for field work. Seining or electrofishing were the primary methods used in sampling, although chemicals were occasionally utilized in situations where other gear was unsuitable. Specimens taken were deposited in appropriate university or museum collections for future reference.

Survey results by fish species, National Forest and drainage are summarized in Table 1. Nomenclature is as listed in American Fisheries Society Special Publication No. 6 (Bailey et al, 1971). Drainages were assigned arbitrary numerical designations (Appendix 1) which were then inserted under the Forest opposite the appropriate species in the table. Numbers without parentheses indicate definite records of species found on or immediately adjacent to National Forest lands. Numbers in parentheses indicate a species that, although not previously collected in surveys, probably exists there.

Table 1 includes 28 species or groups of species not included in Special Publication No. 6. Nine of these were described or recognized since its publication, while six were resurrected from descriptions published as far back as the 1800's. An additional 13 fish or groups of fish are potential species currently under study. Details are given in Appendix 2.

Of the endangered species listed in the current "Yellowbook" (U. S. Department of the Interior, 1974) and the September 26, 1975, Federal Register, only the Shortnose sturgeon, *Acipenser brevirostrum*, was shown occurring in or adjacent to National Forest lands. On a few Forests where it may occur, it is likely only a transient, moving up the larger rivers during certain times of the year.

The September 26, 1975, Federal Register lists only four species under threatened status, none of which occur in National Forest streams. The Southeastern Section of the Wildlife Society and the Southern Division American Fisheries Society are, however, sponsoring a list of 29 endangered and threatened fish species of the southeast for inclusion in the Federal Register. The list was formulated by ichthyologists and other fishery specialists at a September 1974 workshop in Tallahassee, Florida. Of the 29, 20 occur or are likely to occur in or adjacent to National Forest lands. Of these, only the Spotfin chub, *Hybopsis monacha*, Sharphead darter, *Etheostoma acuticeps*, and Pygmy sculpin, *Cottus pygmaeus*, are recommended for endangered status. Although these 3 fish and the other 17 recommended for threatened status have not been officially added to the Register, the Forest Service plans to make a special effort to protect them and their habitat.

Protective measures will be more easily applied to species such as the Ouachita madtom, *Noturus lachneri*, Paleback darter, *Etheostoma pallididorsum*, Coldwater darter, *Etheostoma ditrema*, and other fishes normally found in extreme headwaters where the Forest Service has complete control. Timber management and other development activities can be modified, or even excluded, if needed to protect the habitat. Species such as the Coldwater darter and the Pygmy sculpin, whose range are restricted to a few known springs, can possibly be stocked, as a last resort, in other similar habitat to reduce chance of extinction.

Species such as the Sharphead darter and the Spotfin chub, found lower in the drainage, present a much more complex management problem. First, since they are found in much larger streams than the fish previously mentioned, sampling to determine their presence is more difficult. Second, the ownership pattern on larger streams is usually so broken by private lands that the Forest Service or other land management agency has little if any control over water quality in these sections. Although lands can be purchased through provisions of the Endangered Species Act of 1973, an active public education program pointing out the importance of protecting endangered and threatened species is the best hope for a successful protection program.

In summary, the data presented in this paper are not intended to be taken as a complete and final listing of all fishes found on National Forest lands but do provide a solid base of information, not previously available, which can be used in guiding current land management programs.

—"Delete *Notropis altipinnis* from the Croatan National Forest."

—"*Etheostoma serriferum*—Delete drainages 10 and 11 under Uwharrie N. F. and add 10 and 11 under Croatan N. F."

TABLE 1. Fish Species by State, National Forest and Drainage.

STATE	Virginia W. Virginia		North Carolina				Tennessee	Georgia		Alabama				Mississippi					La.	Florida			Texas				Oklahoma Arkansas		Ky.	South Carolina	
FISH SPECIES / NATIONAL FOREST	George Washington	Jefferson	Croatan	Uwharrie	Pisgah	Nantahala	Cherokee	Chattahoochee	Oconee	Bankhead	Talladega	Conecuh	Tuskegee	Holly Springs	Tombigbee	Bienville	Homochitto	DeSoto	Delta	Kisatchie	Ocala	Osceola	Apalachicola	Sabine	Angelina	Davy Crockett	Sam Houston	Ozark	St. Francis	Ouachita	Daniel Boone	Sumter	Francis Marion
PETROMYZONTIDAE																																	
Ichthyomyzon bdellium		6,7(8)			(17)		(6,15,16, 17)19,20			(26)																				58, 59,60		
Ichthyomyzon castaneus							19,20,22	(24,65)		27				28	(30)	31	(33)			37, (38,39)								55, 56	(61)	37			
Ichthyomyzon fossor																															58		
Ichthyomyzon gagei		6,7(8)						23,24		27	* 51,52	49,50	52		(30)			34		37 (38)39			45	(38)	(53)	(53)	(54)	55, 56		(37, 55,57)			
Ichthyomyzon hubbsi					17	19,20	(6,15,16, 17)19,20	19,20																									
Lampetra aepyptera							22	24(65)		(26)	24,27,51	48,50			30		33	34										(56)	(61)		58, 59,60		
Lampetra lamottei					17	(19,20)	6,15,16, 17,19,20			(26)																		56			58,59		
Petromyzon marinus			(10)																		40												
DASYATIDAE																																	
Dasyatis americana																					40												
Dasyatis sabina																					40												
ACIPENSERIDAE																																	
Acipenser brevirostrum			(10)																		(40)												
Acipenser fulvescens							19																										
Acipenser oxyrhynchus			10													31, 32		34, 35			40		45										(63)
Scaphirhynchus albus																												(56)	61				
Scaphirhynchus platorynchus											(49,66)			(28)	30		(33)		36									(56)		(37,57)			
POLYODONTIDAE																																	
Polyodon spathula					17		19,20				(66)	(49)		(28)	(30)	(31, 32)	(33)			37, 38,39				(38)	(53)	(53)	(54)	(55, 56)	61	(37,57)	58,60		
LEPISOSTEIDAE																																	
Lepisosteus oculatus							(6,15, 16,17)			27		(49,50)	(52)					34, 35	36	37, 38,39				38	(53)	(53)	(54)	(56)	61	(37, 55,57)			
Lepisosteus osseus		(8)	10, 11	(12)	17		6(15,16) 17,19,20		(25)	27	(52)	(49,50)		28	(30)	(31, 32)	(33)	34	36	37, 38,39	40	41 (42)	43,45	38	(53)	53	54	(55, 56)	61	(37, 55,57)	58, 59,60		62, 63
Lepisosteus platostomus												(49,50)		28		(31, 32)	(33)	(34)	36	37, 38,39					53	(53)	54	(55, 56)	61	(37, 55,57)			
Lepisosteus platyrhincus																					40	41, 42	45(46)47										
Lepisosteus spatula																(31, 32)	(33)	(34, 35)	(36)					(38)	(53)	(53)	(54)		61				
AMIIDAE																																	
Amia calva			10, 11	(12)		19			(25)		(27,49, 51,66)	(49,50)	(52)	28, 29	30	(31, 32)	(33)	34	36	37, 38,39	40	41 (42)	(44)45 (46)47	(38)	(53)	(53)	(54)	(55, 56)	61	(37,57)	60		62, 63
ELOPIDAE																																	
Elops saurus			10, 11																		40												
Megalops atlantica			10, 11																		40												
ANGUILLIDAE																																	
Anguilla rostrata	(3)	(4)	10, 11					21,23		27	51	(49,50)						34, 35	36	37, 38,39	40	(41, 42)	43(44) 45(46,47)	(38)	(53)	(53)	(54)	55 (56)		(37, 55,57)	58, 59,60	21	62, 63
CLUPEIDAE																																	
Alosa aestivalis			10, 11																		40												
Alosa alabamae											51	(49,50)			30	31, 32		34					45							(37,55)			
Alosa chrysochloris						19,20	20	20(65)			51	(49,50)			30	31, 32	33	34	36	37, 38,39				(38)	(53)	(53)	(54)		(61)	(37, 56,57)	(58, 59,60)		
Alosa mediocris			10, 11																		40												62, 63
Alosa pseudoharengus		(5)	10, 11																														
Alosa sapidissima			10, 11																		40												62, 63
Brevoortia smithi																					40												
Brevoortia tyrannus			10, 11																														62, 63
Dorosoma cepedianum		(7)	10, 11	12	14,17	19,20	(6,15)16, 17,19,20	20(21) 24(65)	25	27	24,51	(49,50)	52	28, 29	30	31, 32	33	34	36	37, 38,39	40	(41)	45	38	(53)	53	54	55, 56	61	37, (55)57	58, 59,60	21, 64	62, 63

STATE	Virginia		North Carolina				Tennessee	Georgia		Alabama				Mississippi						La.	Florida			Texas				Oklahoma Arkansas			Ky.	South Carolina	
NATIONAL FOREST / FISH SPECIES	W. Virginia George Washington	W. Virginia Jefferson	Croatan	Uharrie	Pisgah	Nantahala	Cherokee	Chattahoochee	Oconee	Bankhead	Talladega	Conecuh	Tuskegee	Holly Springs	Tombigbee	Bienville	Homochitto	DeSoto	Delta	Kisatchie	Ocala	Osceola	Apalachicola	Sabine	Angelina	Davy Crockett	Sam Houston	Ozark	St. Francis	Ouachita	Daniel Boone	Sumter	Francis Marion
CLUPEIDAE (Cont'd)																																	
Dorosoma petenense		5	10			19,20	6,15(16, 17)19,20			27	(27,51,66)	(49,50)	(52)	28	30	31 (32)	33	(34, 35)	36	37, 38,39	40	(41)	43,45	38	(53)	53	54	(55, 56)	61	37,57	58, 59,60	64	62, 63
ENGRAULIDAE																																	
Anchoa hepsetus			10, 11																														
Anchoa mitchilli																					40												
HIODONTIDAE																																	
Hiodon alosoides																(31, 32)	33	(34, 35)	(36)	37, 38,39								56		(37, 55,57)	59		
Hiodon tergisus					17		(16)17 19,20			(26)	51					(31, 32)	(33)	(34, 35)	(36)	37, 38,39								(55, 56)		(37,57)	58,60		
SALMONIDAE																																	
Oncorhynchus nerka						19																											
Salmo gairdneri	1, 2,3	3,4,5, 6,7,8,9			13,14,15, 16,17,18	19,20,21	6,15,16, 17,19,20,22	19,20, 21,23,24		27																		(55, 56)			58, 59,60		
Salmo trutta	1, 2,3	3,4,5, 6,7,8,9			13,14,15, 16,17,18	19,20,21	6,15,16, 17,19,20,22	19,20, 21,23,24																									
Salvelinus fontinalis	1, 2,3	3,4,5, 6,7,8,9			13,14,15, 16,17,18	19,20,21	6,15,16, 17,19,20	19,20, 23(24)																							60		
UMBRIDAE																						41, 42											
Umbra limi			10, 11																													62, 63	
Umbra pygmaea			10, 11	12				21,24	25	(26, 27)	24,27, 51,66	48, 49,50	52					34, 35			40	41, 42	43,44, 45,46,47									64	62, 63
ESOCIDAE																																	
Esox a. americanus														26, 29	30	31, 32	(33)		36	37, 38,39				38	53	53	54	(55, 56)	(61)	37,57	58,59		
Esox a. vermiculatus																															(58, 59,60)		
Esox lucius																															58, 59,60		
Esox masquinongy	(3)	3(5)			17	19,20	6,17,19	20																									
Esox niger	(1, 2)3	3	10, 11	12				21,24	25	27	24,27, 51,66	(48, 49,50)	52	(28) 29	30	(31) 32	(33)	34	(36)	37, 38,39	40	(41) 42	43,44,45	38	(53)	(53)		(56)	(61)	(37,57)		21	62, 63
SYNODONTIDAE																																	
Synodus foetens			10, 11																												(58, 59,60)		
CYPRINIDAE																																	
Campostoma anomalum	1, 2,3	3,4,5, 6,7,8,9			14,15, 16,17,18	19,20,21	6,15,16, 17,19,20,22	19,20,21, 23,24,65	25	26, 27	24,27, 51,52,66		52		30		33		36								54	55, 56	(61)	37, 55,57	58, 59,60		
Carassius auratus		9				19,20	6,15,16,17		(25)	(27)	(27)																	55, 56			58, 59,60		
Clinostomus funduloides	1, 2,3	3,4,5, 6,7,8		12	13,14, 15(16)	19,20,21	19,20	19,21(65)		26																					58		
Cyprinus carpio	1, 2,3	3,4,5, 6,7,8,9	(10) 11	(12)	14,16, 17,18	19,20	6,15,16, 17,19,20,22	(20,21, 23)24(65)	25	27	(27,51,66)			28, 29	30	(31, 32)	(33)	(34, 35)	36	37 (38)39			(45)	(38)		(53)	54	55 (56)	61	37 (55)57	58, 59,60	21, 64	62, 63
Dionda nubila																												55, 56	(61)				
Ericymba buccata		(7)8,9									51,66	49,50	52		30	31, 32		34													58, 59,60		
Exoglossum laurae	1, 2,3	5																															
Exoglossum maxillingua		3,5																															
Hemitremia flammea								(65)		26	24																						
Hybognathus hayi											(27,51,66)	(49)		(28)	30	32	33	34	36	37(38)				(38)	(53)	(53)			(61)	(57)			
Hybognathus nuchalis								(21)	25		51			28, 29	30	31, 32	33	34	36	37, 38,39				38	53	53	54	(55, 56)	(61)	(37,57)	60	21, 64	
† Hybognathus regius	(1, 2,3)		10	(12)																													
Hybopsis aestivalis							16,19,22			(27)	51(52)	49,50	(52)		30	31, 32		34		37(39)				38	53	53	(54)	(56)		(37,57)	58,59		
Hybopsis amblops		6,7,8			16,17	19,20	6,15,16, 17,19,20	20,65							30								43					55, 56	(61)	(55)	58, 59,60		
Hybopsis dissimilis		6,7(8)																										56			58, 59,60		
Hybopsis hypsinotus				12	13,14																											64	
Hybopsis insignis		7			16,17	19,20	6,15,16, 17,19,20	20(65)																								64	

†Species described, recognized, or resurrected since Special Publication No. 6 was prepared, and potential species undescribed but currently under study. See Appendix 2.

STATE	Virginia W. Virginia		North Carolina				Tennessee	Georgia		Alabama				Mississippi					La.	Florida			Texas				Oklahoma Arkansas			Ky.	South Carolina	
FISH SPECIES / NATIONAL FOREST	George Washington	Jefferson	Croatan	Uharrie	Pisgah	Nantahala	Cherokee	Chattahoochee	Oconee	Bankhead	Talladega	Conecuh	Tuskegee	Holly Springs	Tombigbee	Bienville	Homochitto	DeSoto	Delta	Kisatchie	Ocala	Osceola	Apalachicola	Sabine	Angelina	Davy Crockett	Sam Houston	Ouachita	St. Francis	Ouachita	Daniel Boone	Sumter	Francis Marion
CYPRINIDAE (Cont'd)																																	
Notropis buchanani														(28, 29)			33		36	37(39)				38	53	53		55		(37, 55,57)	58,59		
Notropis caerulseus							22	24			24,51																						
Notropis callisema									25																								
Notropis callistius							22	24		27	24,51, 52,66																						
Notropis camurus																			36									55					
Notropis cerasinus	3	3(4)5																															
Notropis chalybaeus			10, 11									50			30			35		37(39)	40	(41, 42)	43,44, 45(46)	(38)	(53)	(53)							62, 63
Notropis chilitficus				12	(13)																												
Notropis chlorocephalus					14										30																	64	
Notropis chrosomus							22	24			24,51																						
Notropis chrysocephalus							6,15,16, 17,19,20,22	24,65		26, 27	24,27, 51,52,66		52	28		31, 32		34	36	37, 38,39								55, (56)	(61)	37 (55)57			
Notropis coccogenis					14,15, 16,17,18	19,20,21	6,15,16, 17,19,20	19,20, 21(65)		(26)																					58, 59,60	21	
Notropis coronutus	1, 2,3	3,6, 7,8,9																															
Notropis cummingsae			10, 11	(12)					(25)												40		46									21	62, 63
Notropis edwardraneyi											51,27		(52)																				
Notropis emiliae									(25)	27	27,51	(49,50)	52					34	36		40	(41, 42)	43,45	38	53	53	54	(55, 56)	(61)	37,57	58, 59,60		(62, 63)
Notropis fumeus										(26)										37, 38,39				38	(53)	(53)	54	(55, 56)	(61)	(37, 55)57			
Notropis galacturus		5,6,7,8			14,15, 16,17,18	19,20,21	6,15,16, 17,19,20	19,20,21		(26)																		56			60	21	
†Notropis gibbsi											52																						
Notropis greenei																												35, 56					
†Notropis harperi												50									40												
Notropis hudsonius	1, 2,3	3,5	10	12	(13)14	21		(21)	25																							21	
Notropis hypselopterus								21				48, 49,50									40	(41, 42)	43,44, 45,46,47										62, 63
Notropis hypsilepis								21																									
Notropis leedsi																							45										
Notropis leuciodus		6,7			17,18	19,20,21	6,15,16, 17,19,20	(19)20,21																								21	
Notropis lirus		7					19,20,22	24(65)			24(27)																						
Notropis longirostris												49,50				31, 32	33	34, 35															
Notropis lutipinnis						21		21(23)24	25																							21, 64	
Notropis lutrensis														28			33		36	37, 38,39				38	53	53	54	(55)	(61)	(55)			
Notropis maculatus									(25)			(49,50)						34		37	40	(41, 42)	43,44,45							(57)		64	
Notropis niveus				(12)	(13,14)	21		21																								21, 64	62
Notropis ortenburgeri																														37 (55,57)			
Notropis ozarcanus																												56					

†Species described, recognized, or resurrected since Special Publication No. 6 was prepared, and potential species undescribed but currently under study.
See Appendix 2.

STATE	Virginia		North Carolina				Tennessee	Georgia		Alabama				Mississippi					La.	Florida			Texas				Oklahoma Arkansas			Ky.	South Carolina	
FISH SPECIES / NATIONAL FOREST	George Washington	Jefferson	Croatan	Uharrie	Pisgah	Nantahala	Cherokee	Chattahoochee	Oconee	Bankhead	Talladega	Conecuh	Tuskegee	Holly Springs	Tombigbee	Bienville	Homochitto	DeSoto	Delta	Kisatchie	Ocala	Osceola	Apalachicola	Sabine	Angelina	Davy Crockett	Sam Houston	Ozark	St. Francis	Ouachita	Daniel Boone	Sumter	Francis Marion
CYPRINIDAE (Cont'd)																																	
Hybognathus hayi				(12)	(13,14)																												
+Hybopsis lineapunctata							22	24			24,52																						
*Hybopsis monacha		(6)			(17)	(19)		(65)																									
Hybopsis rubrifrons						21		21	25																						21		
Hybopsis storeriana											51		52	(28)	30	31, 32	33	34		37								(56)		(37,57)			
Hybopsis x-punctata																												(56)		57			
†Hybopsis winchelli								(23)		27	51,66	50				31, 32	33	34, 35															
†Hybopsis zanema					14																												
Nocomis asper																														(57)			
Nocomis biguttatus																												56					
Nocomis leptocephalus	2,3	3,4,5		12	13,14, 17,18	21		21,23	25	26, 27	27,51, 52,66		52		30	31, 32	33	34														21, 64	
Nocomis micropogon	1, 2,3	3,6, 7(8)9			14,15, 16,17,18	19,20	6,15,16, 17,19,20	19,20, 21,24(65)		(26)																					58, 59,60		
Nocomis platyrhynchus		5																															
Nocomis raneyi	3	3																															
Notemigonus crysoleucas	1, 2,3	3(4,5, 6,7,8,9)	10, 11	12	13,14, 17,18	19,20	(6)15, 16,17	(20,21, 24,65)	(25)	27	24,27 51,52	50	52	28, 29	30	31, 32	33	34	36	37, 38,39	40	41 (42)	43(44) 45(46)47	38	53	53	54	55 (56)	61	37 (55)57	59	21, 64	62, 63
Notropis albeolus		(4)5																															
Notropis alborus				12	13																												
†Notropis (Alburnops) spp.											51		52	28	30																		
Notropis altipinnis			10, 11	12																													
Notropis amnis														29						37, 38(39)				38	53	53	54	(55)	(61)	(37, 55,57)			
Notropis amoenus	1, 2,3		(10)	12																													
Notropis analostanus	1, 2,3	3(4)		(12)	(13)14																												
Notropis ardens	3	3(4)5						65		26																					58, 59,60		
Notropis ariommus		(7)						65																							59,60		
Notropis asperifrons							22	24		27	24,51,52																						
Notropis atherinoides		(7,8)			17			(65)		(26)	(24) 51(52)		(52)	28, 29		31, 32	33	34	36	37(39)				38	(53)	(53)	54	55 (56)	61	(37, 55,57)	59,60		
†Notropis atropiculus												50																					
Notropis atrocaudalis																				37, 38,39				38	53	53	54			37			
Notropis baileyi										26, 27,	27,51,66		52		30			34															
Notropis bellus alegnotus										27			52		30																		
Notropis bellus bellus										26	27,51, 52,66																						
Notropis bifrenatus			10																														
Notropis blennius																				37									(61)				
Notropis boops										(26)																		55, 56	(61)	37, 55,57	58,59		

*Species recommended for "endangered" status at the September 1974 meeting in Tallahassee, Florida.

†Species described, recognized, or resurrected since Special Publication No. 6 was prepared, and potential species undescribed but currently under study. See Appendix 2.

STATE	Virginia		North Carolina				Tennessee	Georgia		Alabama				Mississippi						La.	Florida			Texas				Oklahoma Arkansas			Ky.	South Carolina	
NATIONAL FOREST / FISH SPECIES	George Washington	Jefferson	Croatan	Uwharrie	Pisgah	Nantahala	Cherokee	Chattahoochee	Oconee	Bankhead	Talladega	Conecuh	Tuskegee	Holly Springs	Tombigbee	Bienville	Homochitto	DeSoto	Delta	Kisatchie	Ocala	Osceola	Apalachicola	Sabine	Angelina	Davy Crockett	Sam Houston	Ouachita	St. Francis	Ouachita	Daniel Boone	Sumter	Francis Marion
CYPRINIDAE (Cont'd)																																	
**Notropis percallidus																														(55,57)			
Notropis petersoni									25												40	(41, 42)	43(44) 45,46									21	62, 63
Notropis photogenis		5,6, 7(8,9)			16,17	19,20	6,15,16, 17,19,20	19,20																							58, 59,60		
Notropis pilsbryi																												55, 56					
Notropis procne	1, 2,3	3(4)5		(12)	(13,14)																												
Notropis pyrrhomelas				(12)	13,14																											64	
Notropis roseipinnis																31, 32	(33)	34, 35															
Notropis rubellus	1, 2,3	3,6,7,8,9			17	19,20	6,15,16, 17,19,20			(26)																		55, 56	(61)	(37)57	58, 59,60		
Notropis rubricroceus		6,7			(13)17		6,15, 16,17,19																										
Notropis sabinae																				37, 38,39								(56)					
Notropis scabriceps		5																															
Notropis scepticus				12	(13)14	21		(21)																								21, 64	
Notropis semperasper	3	3																															
†Notropis sp. (cf semperasper)										(26)																							
Notropis shumardi															30		33		36	37									(61)				
Notropis signipinnis												48, 49,50						34, 35					43										
Notropis spectrunculus		6,7			14,16,17	19,20,21	(6,15)16 (17)19,20	19,20,21																								21	
Notropis spilopterus	1,2	5,6 7(8,9)			17	19(20)	6,15,16, 17,19,20	20,65		(26)																		(55)			58, 59,60		
Notropis stilbius							22	24		27	24,51,52				30																		
Notropis stramineus		(8)					6,17			(26)																				(37)	58,59		
Notropis telescopus		5,6,7			14,16,17	19,20	6,15,16,17			(26)																					60		
Notropis texanus											27,51	49,50	52	28, 29	30		33	34, 35		37, 38,39			43,44, 45,46	38	53	53	54		(61)	(57)			
Notropis trichroistius							22	24			24,51																						
Notropis umbratilis														28, 29			33		36	37, 38,39				38	53	53	54	55 (56)	(61)	37, 55,57	58, 59,60		
Notropis uranoscopus											51,52		52																				
Notropis venustus							22	24		27	24,27, 51,52,66	50	52	28, 29	30	31, 32	33	34, 35	36	37, 38,39			43,43	38	53	53	54	(55, 56)	(61)	57			
Notropis volucellus	3	3,5 (6,7,8,9)			(17)		6,15, 16(17)19	(24)65		27	24,51		52	28	30	31, 32	33	34	36	37, 38,39				38	53	53	54	55 (56)	(61)	37(57)	58, 59,60		
†Notropis sp. (cf volucellus)											51																						
Notropis welaka											51	(49,50)			(30)			34			40												
Notropis whipplei					(17)		16,20			27				29														55	(61)	37,57	58, 59,60		
Notropis xaenocephalus							22	23,24			24,51,52																						
Notropis xaenurus									25																								
Notropis zonatus																																	
Notropis zonistius								21,23,24			(52)																						

**Species recommended for "threatened" status at the September 1974 meeting in Tallahassee, Florida.

†Species described, recognized, or resurrected since Special Publication No. 6 was prepared, and potential species undescribed but currently under study. See Appendix 2.

STATE	Virginia		North Carolina			Tennessee	Georgia		Alabama				Mississippi						La.	Florida			Texas				Oklahoma Arkansas			Ky.	South Carolina	
FISH SPECIES / NATIONAL FOREST	George Washington	W. Virginia Jefferson	Croatan	Uwharrie	Pisgah	Nantahala	Cherokee	Chattahoochee	Oconee	Bankhead	Talladega	Conecuh	Tuskegee	Holly Springs	Tombigbee	Bienville	Homochitto	DeSoto	Delta	Kisatchie	Ocala	Osceola	Apalachicola	Sabine	Angelina	Davy Crockett	Sam Houston	Ouachita	St. Francis	Ouachita	Daniel Boone	Sumter	Francis Marion
CYPRINIDAE (Cont'd)																																	
Phenacobius catostomus							22	24		27	24,51,52																						
Phenacobius crassilabrum					16,17	19	6,15, 16,17,19	19																									
Phenacobius mirabilis										(26)														38	(53)	(53)	54	(55)	(61)	(55)	58, 59,60		
Phenacobius teretulus		(5)																															
Phenacobius uranops		6,7					6,16, 19,20			(26)																							
Phoxinus erythrogaster										(26)																		55 (56)	(61)		58, 59,60		
Phoxinus oreas	(2) 3	3,4,5,6																															
Phoxinus sp. (cf oreas)					(15,16, 17,18)		19,20																							59			
Pimephales notatus	1, 2,3	3,5,6, 7,8,9			(17)		6,15, 16,17,20	(65)		26, 27	51			28, 29	30	32	33	34	36	37								55, 56	(61)	37, 55,57	58, 59,60		
Pimephales promelas		(7)						(21,23)24			(27,51)																	(56)		(37,57)	59,60		
Pimephales tenellus																												(55, 56)	(61)	37, 55,57			
Pimephales vigilax							6(15) 16,17	(65)		27	51,52		52	28, 29	30	31, 32	33		36	37, 38,39				38	53	53	54	(55, 56)	(61)	37,57	58, 59,60		
Rhinichthys atratulus	1, 2,3	3,4,5, 6,7,8,9			13,14,15, 16,17,18	19(20)21	6,15,16, 17,19,20,22	(21)24(65)		26, 27	24																				58,60	21	
Rhinichthys cataractae	1, 2,3	3,5,6			(14,15, 16,17,18)	19,20	6,15,16, 17,19,20	19,20(21)																						60			
Semotilus atromaculatus	1, 2,3	3,4,5, 6,7,8,9		12	13,14, 16,17	19,20,21	6,15(16) 17,19,20,22	19,20,21, 23,24,65	25	26, 27	24,27, 51,52	49,50	52	28, 29	30	(32)	33	(34, 35)	36	37, 38,39			45	38	53	53		(55, 56)	(61)	37, 55,57	58, 59,60	21, 64	
Semotilus corporalis	1, 2,3	3																															
Semotilus margarita	(1)																																
CATOSTOMIDAE																																	
Carpiodes carpio					17									28		31, 32	33	34	36	37, 38,39				38	53	53	54	(55, 56)		(55)	58, 59,60		
Carpiodes cyprinus	3	(7)			17	(19,20)	6(15) 16(17)		(25)	(26, 27)	51	(49,50)	(52)		30	32		34					43								58, 59,60		
†Carpiodes forbesi																												55 (56)					
Carpiodes velifer					(16,17)		16				51	(49,50)	52		30	31, 32		34											(61)		58,59		
†Carpiodes sp. (cf velifer)				12					(25)																								
Catostomus commersoni	1, 2,3	3,4,5, 6,7,8,9			13,14,15, 16,17,18	19,20	6,15,16, 17,19,20,22	(19)20 (24,65)		26																		55 (56)			58, 59,60	(64)	
Cycleptus elongatus					17		19				51				30	(31)	(33)		36	37(38)					(53)	(53)	(54)						
Erimyzon oblongus	(1, 2)3	3	10, 11	12					25	27	(24)27, 51(52)		52	28, 29	30	31 (32)	33	(34, 35)		37, 38,39				38	53	(53)	(54)	55 (56)	(61)	37, 55,57			
Erimyzon sucetta			10, 11						(25)		(27)	48	(52)	(28, 29)	30	(31) 32	(33)	34, 35		37, 38,39	40	41, 42	43,44, 45,46,47	(38)	(53)	(53)	54	(56)	(61)	(57)			62, 63
Erimyzon tenuis											27,51	48,50		(28)	30	31, 32		34, 35															
Hypentelium etowanum							20,22	23,24		27	24,27, 51,52,66		52		30																		
Hypentelium nigricans	1, 2,3	3,4,5, 6,7,8,9			13,14,15, 16,17,18	19,20,21	6,15,16, 17,19,20,22	19,20,21 23(24)65		26				28, 29		31, 32	33	34										55, 56		37 (55)57	58, 59,60	21	
Hypentelium roanokense		(4)																															
Ictiobus bubalus				12	17	(19,20)	19,20,22			(26, 27)	51			28	30	31, 32	33	34	36	37, 38,39				38	53	53	54	55 (56)	(61)	(37, 55,57)	58, 59,60		
Ictiobus cyprinellus														28		31 (32)	(33)	(34, 35)	36	37, 38,39								(55, 56)	(61)	(37, 55,57)	(59)		
Ictiobus niger																(31, 32)	(33)	(34, 35)		(37, 38,39)								(55, 56)	(61)	(37, 55,57)			
Minytrema melanops			(12)				19,20,22	24(65)	(25)	27	24,27,51	48,50	(52)	28, 29	30	31, 32	33	34	36	37, 38,39		(41)	45	38	53	53	54	55, 56	(61)	37, (55)57	58,59	21	62, 63

†Species described, recognized, or resurrected since Special Publication No. 6 was prepared, and potential species undescribed but currently under study. See Appendix 2.

STATE	Virginia	W. Virginia	North Carolina				Tennessee	Georgia		Alabama				Mississippi					La.	Florida			Texas				Oklahoma Arkansas			Ky.	South Carolina	
NATIONAL FOREST / FISH SPECIES	George Washington	Jefferson	Croatan	Uwharrie	Pisgah	Nantahala	Cherokee	Chattahoochee	Oconee	Bankhead	Talladega	Conecuh	Tuskegee	Holly Springs	Tombigbee	Bienville	Homochitto	DeSoto	Delta	Kisatchie	Ocala	Osceola	Apalachicola	Sabine	Angelina	Davy Crockett	Sam Houston	Ouachita	St. Francis	Ouachita	Daniel Boone	Sumter	Francis Marion
CATOSTOMIDAE (Cont'd)																															38,		
Moxostoma atkinsonum		(7)	(10)	12	14(16,17)	(19,20)	6(15)16,17		25																		(56)			59,60	21	
Moxostoma carinatum		(7)			(16,17)	19,20	6(15)16 (17)19,20			27	51(52)		(52)		30	31 (32)		(34, 35)									55 (56)		(37, 55,57)			
Moxostoma cervinum	3	3(4)																															
Moxostoma congestum																								53	53	54							
Moxostoma duquesnei		6,7(8)9			16,17,18	19,20	6,15,16, 17,19,20,22	(19)20, 24(65)		27	24,51,52		52														55, 56	(61)	37, 55,57	58, 59,60		
Moxostoma erythrurum	(1) 3	(3)6, 7(8)9			16,17	19,20	6,15,16, 17,19,20,22			27	24,51, 52,66					32		34									55, 56	(61)	37, 55,57	58, 59,60		
Moxostoma lachneri								23																									
Moxostoma macrolepidotum	(1, 2,3)	(3,7)	(10)	(12)	(16)17	19,20	6(15)16 (17)19,20																					(61)		58, 59,60		
Moxostoma pappillosum			(10)	(12)	(14)																												
Moxostoma poecilurum							22	(24)		27	24,51,52	50	52	28, 29	30	31, 32	33	34, 35		37, 38,39				38	53	53	54		(57)				
Moxostoma sp. (cf poecilurum)								(23)																									
Moxostoma thothoecum	2,3	3																															
Moxostoma robustum				12	(14)				25																								
Moxostoma rupiscartes					14	21		21,23	25																						21, 64		
ICTALURIDAE																															21, 64	62, 63	
Ictalurus brunneus				(12)	(13)14			21(23)	25												40												
Ictalurus catus	(1, 2)3	(3)	10, 11	12	(14)				25												40	(41, 42)	45,46									21	62, 63
Ictalurus furcatus					(17)		(6)15 (16)17,19			(26, 27)	(24,27, 51,52,66)			28 (29)	30	31 (32)	(33)	(34, 35)	36	37 (38)39				(38)	(52)	(53)	54	(56)	61	(55,57)	58		
Ictalurus melas		(8,9)				(19,20)	(6,15, 16)17,22	24		27	27,51,52			28, 29	(30)	31 (32)	(33)	(34, 35)	36	37, 38,39				38	53	53	54	55 (56)	(61)	(37, 55,57)	58, 59,60		
Ictalurus natalis	1, 2,3	3(6,7,9)	10, 11	(12)	(13,14,17)	(19,20)	(6)15(16, 17)19,20,22	(20,21, 24,65)	25	27	24,51,66	48,50	52	28, 29	(30)	31, 32	33	34, 35	36	37, 38,39	40	(41) 42	43,44, 45,46,47	38	53	53	54	55 (56)	(61)	37,57	58, 59,60	21	
Ictalurus nebulosus	1, 2,3	3	10, 11	12	(14)17			21	25		(24,27, 51,52,66)	(49,50)	(52)	28	30	(31) 32		34	36	(37, 38,39)	40	(41) 42	(44,45, 46,47)					(55)	(61)		58		62, 63
Ictalurus platycephalus				12	14			21	25											37, 38,39												21	62
Ictalurus punctatus	1, 2,3	3(4)5, 6,7,8(9)	10	(12)	17	19,20	6,15,16, 17,19,20,22	(20,21, 24,65)	25	27	(24)51(52)	49	52	28, 29	30	31, 32	33	34	36		40	(41, 42)	43,45	38	53	53	54	55 (56)	61	37 (55)57	58, 59,60		62, 63
Ictalurus serracanthus																							45,46										
Noturus albater																												56					
Noturus baileyi							19																										
Noturus elegans																															(60)		
Noturus eleutherus		7			17		(15)16, 17,19,20	(65)																						37(57)	58, 59,60		
Noturus exilis										(26)																		55, 56		55			
Noturus flavater																												56					
**Noturus flavipinnis		(6)						(65)																									
Noturus flavus		(7)			(16,17,18)		19			(26)								34												(55)	58, 59,60		
Noturus funebris										(27)	27,51,52	50	52		30	31, 32																	
**Noturus gilberti	(3)	3																															
Noturus gyrinus			10, 11						25	(26)	27			28, 29	30	31, 32	(33)	34, 35	36	37, 38,39	40	(41) 42	43,44, 45,46,47	(38)	53	53	(54)	(56)	(61)	37, 55,57		21	62, 63

**Species recommended for "threatened" status at the September 1974 meeting in Tallahassee, Florida.

STATE	Virginia		North Carolina				Tennessee	Georgia		Alabama				Mississippi					La.	Florida			Texas				Oklahoma Arkansas				Ky.	South Carolina	
FISH SPECIES / NATIONAL FOREST	George Washington	Jefferson	Croatan	Uharrie	Pisgah	Nantahala	Cherokee	Chattahoochee	Oconee	Bankhead	Talladega	Conecuh	Tuskegee	Holly Springs	Tombigbee	Bienville	Homochitto	DeSoto	Delta	Kisatchie	Ocala	Osceola	Apalachicola	Sabine	Angelina	Davy Crockett	Sam Houston	Ozark	St. Francis	Ouachita	Daniel Boone	Sumter	Francis Marion
ICTALURIDAE (Cont'd)																																	
Noturus hildebrandi																	33																
Noturus insignis	1, 2,3	3(4)5,6	10, 11	12	13,14(15)		15	21	25																							21, 64	62, 63
Noturus lachneri																														(52)			
Noturus leptacanthus							22	23,24	(25)		51(52)66	48, 49,50	52		30	31, 32		34, 35			40	(41, 42)	43,44, 45,46,47									21	
Noturus miurus										(26)				28, 29		31, 32	33	34		37								(55)	(61)	(37, 55,57)	58, 59,60		
Noturus munitus							22				51				30	31																	
Noturus nocturnus										27	51				(30)	31, 32	33											(55)		(37, 55,57)			
Noturus phaeus														28, 29			33			37,38													
Noturus stigmosus														29																	58		
†Noturus taylori																														57			
Pylodictis olivaris				(12)	17	18,20	6(15)16, 17,19,20,22	20(21 24,65)		27	51			28, 29	30	31, 32	33	34	(36)	37, 38,39				38	(53)	(53)	54	(55) 56	61	(37, 55,57)	58, 59,60		
ARIIDAE																																	
Arius felis																					40												
Bagre marinus																					40												
AMBLYOPSIDAE																																	
Amblyopsis rosae																												(56)					
Chologaster cornuta			10, 11																														62, 63
Typhlichthys subterraneus										(26)											40												
APHREDODERIDAE																																	
Aphredoderus sayanus			10, 11	12					25		51	48,50	52	28, 29	30	31, 32	33	34	36			41, 42	43,44, 45,46,47	38	53	53	54	(56)	(61)	37,57			62, 63
BATRACHOIDIDAE																																	
Opsanus tau			10, 11																														
BELONIDAE																																	
Strongylura marina			10, 11																		40		45	38									62, 63
CYPRINODONTIDAE																																	
Cyprinodon v. hubbsi																					40												
Cyprinodon v. variegatus			11																		40												
Fundulus albolineatus										(26)																							
Fundulus catenatus		6(7)					19,20	(65)		(26)							33											55, 56		57	60		
Fundulus chrysotus																(31, 32)	(33)	(34, 35	36	37, 38,39	40	41 (42)	(43,45) 46,47		53	53	54						62, 63
Fundulus cingulatus																					40	41, 42	43,44,47										
Fundulus confluentus			(10, 11)																														
Fundulus diaphanus	2		(10, 11)																														
Fundulus heteroclitus			10, 11																														62, 63
Fundulus lineolatus			10																		40	41, 42	47										62, 63
Fundulus luciae			(10, 11)																														
Fundulus majalis			10, 11																														
Fundulus notatus															30	31, 32	33	34		37, 38,39				38	53	53	54	(55) 56	(61)	37,57			
Fundulus notti											51	48			30	(31) 32	(33)	34, 35		37, 38,39			43,44, 45,46,47	(38)	(53)	(53)	(54)		(61)	37 (55,57)			
Fundulus olivaceus								(24,65)		26, 27	24,27, 51,66	50	52	28, 29	30	31, 32	33	34, 35		37, 38,39				38	53	53	54	55, 56	(61)	37, 55,57			

†Species described, recognized, or resurrected since Special Publication No. 6 was prepared, and potential species undescribed but currently under study. See Appendix 2.

STATE	Virginia W. Virginia		North Carolina				Tennessee	Georgia		Alabama				Mississippi						La.	Florida			Texas				Oklahoma Arkansas			Ky.	South Carolina	
NATIONAL FOREST / FISH SPECIES	George Washington	Jefferson	Croatan	Uwharrie	Pisgah	Nantahala	Cherokee	Chattahoochee	Oconee	Bankhead	Talladega	Conecuh	Tuskegee	Holly Springs	Tombigbee	Bienville	Homochitto	DeSoto	Delta	Kisatchie	Ocala	Osceola	Apalachicola	Sabine	Angelina	Davy Crockett	Sam Houston	Ozark	St. Francis	Ouachita	Daniel Boone	Sumter	Francis Marion
CYPRINODONTIDAE (Cont'd)																																	
Fundulus rathbuni				12																													
Fundulus seminolis																					40	(41)											
Fundulus stellifer							22	24			24,51																						
Jordanella floridae																					40	(41)											
Leptolucania ommata																					40	41, 42	43,44, 45,46,47										
Lucania goodei																					40	(41)											63
Lucania parva			(10, 11)																		40												
POECILIIDAE			10,							26				28,		31,				37,		41,	43,44,					(55,		37,	58,		62,
Gambusia affinis			11	(12)	17		6,19,20,22	24(65)	(25)	(27)	24,27,51	48, 49,50	52	29	30	32	33	34	36	38,39	40	42	45,46,47	38	53	53	54	56)	61	55,57	59,60	21	63
Heterandria formosa																					40	41 (42)	43,44 (45,46,47)										62, 63
Poecilia latipinna																					40												
ATHERINIDAE																																	
Labidesthes sicculus		(7,8)					19	(65)	(25)	27	51		(52)	28	(30)	31, 32	33		36	37, 38,39	40	41, 42	43,44, 45,46,47	38	53	53	54	55, 56	(61)	37, 55,57	58, 59,60		62, 63
Membras martinica																					(40)												
Menidia audens														28			33		36	37										(37,57)			
Menidia beryllina			10, 11																		40	(41, 42)											62, 63
LOPHOTIDAE																																	
Syngnathus fuscus			10, 11																														
Syngnathus louisianae			10, 11																														
Syngnathus scovelli																	33				40												
CENTROPOMIDAE																																	
Centropomus undecimalis																					40												
PERCICHTHYIDAE																																	
Morone americana			10, 11																														62, 63
Morone chrysops		(3,7)		(12)	17	19,20	6,19,20	(21,65)	(25)	27				28			(33)		36	37 (38,39)				(38)	(53)	(53)	(54)	(55, 56)	61	37,57	58, 59,60		62, 63
Morone mississippiensis															(30)		(33)		36	37 (38,39)				(38)	(53)	(53)	54	(56)	(61)				
Morone saxatilis			(10)	(12)					(25)												40		45	38							60		62, 63
SERRANIDAE																																	
Diplectrum formosum			10, 11																														
CENTRARCHIDAE																																	
Acantharchus pomotis			10, 11																			41, 42											62, 63
Ambloplites ariommus							22	24		27	51,52	50	(52)		30	31, 32	33																
Ambloplites rupestris	1, 2,3	3,5,6, 7(8)9			13,14,15, 16,17,18	19,20	6,15,16, 17,19,20	20,65		27																		55, 56	(61)	37,57	58, 59,60		
Centrarchus macropterus			10	(12)					25	27		50	52	28, 29	30	31, 32	33	34	36	37, 38,39	40	41, 42	43,44, 45,46,47	38	53	53	(54)		(61)	37,57		64	62, 63
Elassoma evergladei												(49,50)									40	41, 42	43,44 (45)46,47										
Elassoma okefenokee																					40	41, 42	43,44 (45)46,47										
Elassoma zonatum			11						(25)		27,51	48, 49,50	52	28	30	31, 32	33	34, 35	36	37, 38,39	40	41 (42)	43(45) 46(47)	38	53		(54)	55, 56)	(61)	37,57			62, 63
Enneacanthus chaetodon			10, 11																		40	(41, 42)											
Enneacanthus gloriosus			10, 11									(50)									40	41, 42	43,45, 46,47										62, 63
Enneacanthus obesus			10, 11																		40	41, 42	43,44, 45,46,47										62, 63
Lepomis auritus	1, 2,3	3(4) 5(6,7)	10, 11	12	13,14, 16,17	19,20,21	6,15,16, 17,19,20,22	19,20,21, 23,24,65	25		52										40	(41, 42)	44,45, 46(47)		(53)						(58, 59,60)	21, 64	62, 63

STATE	Virginia		North Carolina				Tennessee	Georgia		Alabama			Mississippi					La.	Florida			Texas				Oklahoma Arkansas				Ky.	South Carolina	
FISH SPECIES / NATIONAL FOREST	George Washington	Jefferson	Croatan	Uwharrie	Pisgah	Nantahala	Cherokee	Chattahoochee	Oconee	Bankhead	Talladega	Conecuh	Tuskegee	Holly Springs	Tombigbee	Bienville	Homochitto	DeSoto	Delta	Kisatchie *	Ocala	Osceola	Apalachicola	Sabine	Angelina	Davy Crockett	Sam Houston	Ozark	St. Francis	Ouachita	Daniel Boone	Sumter	Francis Marion
CENTRARCHIDAE (Cont'd)																																	
Lepomis cyanellus	1, 2,3	3,4	10, 11	12	(17)	19,20,21		20(21) 22,24(65)	25	26, 27	24,27,52	(48, 49,50)	52	28, 29	30	31, 32	33	34	36	37, 38,39				38	53	53	54	53 (56)	61	37, 55,57	58, 59,60	21	62, 63
Lepomis gibbosus																																21	63
Lepomis gulosus		(1)	(6,7,8,9)	10	(12)	17	19,20	6,15,16, 17,19,20,22	25	26, 27	24,27,51	48,50	52	28, 29	30	31, 32	33	34	36	37, 38,39	40	41, 42	43,44, 45(46)47	38	53	53	54	(55, 56)	(61)	(37, 55,57)	58, 59,60	21, 64	62, 63
Lepomis humilis										26				28, 29	30	(31) 32	33	34	36	37, 38,39				(38)		53	54	(55, 56)	(61)	(37) 55(57)			
Lepomis macrochirus	1, 2,3	3,4,5, 6,7,8,9	10, 11	12	13,14, 15,17,18	19,20,21	6,15,16, 17,19,20,22	20,21, 23,24,65	25	26, 27	24,27 51,52,66	48, 49,50	52	28, 29	30	31, 32	33	34, 35	36	37, 38,39	40	41, 42	43(44) 45,46,47	38	53	53	54	55, 56	61	37,57	58, 59,60	21, 64	62, 63
Lepomis marginatus			10, 11								27,51	48,50		28, 29		(31) 32	(33)	34, 35	36	37, 38,39	40	41, 42	43,44, 45(46,47)	(38)	(53)	(53)	(54)			37,57			62, 63
Lepomis megalotis		8,9					6,19,20,22	24(65)	25	26, 27	24,27, 51,66	49,50	52	28, 29	30	31, 32	33	34, 35	36	37, 38,39				38	53	53	54	55, 56	(61)	37, 55,57	58, 59,60		
Lepomis microlophus			11				22	(20,21) 24(65)	25	27		(48, 49,50)	52	28, 29	30	31, 32	33	34	36	37, 38,39	40	(41, 42)	43,45 (46,47)	38	53	53	54	55 (56)	(61)	37 (55)57	58, 59,60		
Lepomis punctatus							22	24(65)	(25)		27,31	48,50	52	28, 29	30	31, 32	33	34, 35	36	37, 38,39	40	(41, 42)	43,44, 45,46,47	38				55 (56)	(61)	(37,57)			62, 63
Lepomis symmetricus														28		(31, 32)	(33)	35	36	37, 38,39				(38)			54		(61)	(37,57)			
Micropterus coosae		(9)				21	20,22	21,23, 24,65	25	27	24,51,52																					21	
Micropterus dolomieui	1, 2,3	3,5,6, 7,8,9		12	13,14,15, 16,17,18	19,20,21	6,15,16, 17,19,20	(19)20(21, 23)24(65)		(26)																		55, 56		37,57	58, 59,60	21	
Micropterus notius																							45										
Micropterus punctulatus		8,9			16,17	19(20)	(6,15)16, 17,19,20,22	20(24)65		27	51,66	48, 49,50	52	28, 29	30	31, 32	33	34, 35	36	37, 38,39				38	53	53	54	55 (56)	(61)	37, 55,57	58, 59,60		
Micropterus salmoides	1, 2,3	3,5,6, 7,8,9	10, 11	12	14,16, 17,18	19,20,21	6,15,16, 17,19,20,22	20,21, 23,24(65)	25	26, 27	24,27, 51,52,66	49,50	52	28, 29,	30	31, 32	33	34, 35	36	37, 38,39	40	41, 42	43,44, 45,46,47	38	53	53	54	55, 56	61	37,57	58, 59,60	21, 64	62, 63
Pomoxis annularis	(1, 2,3)	3,5, 6,7,8		12	(17)	19,20	6,15,16, 17,19,20			27			(52)	28, 29	30	31, 32	33	34	36	37, 38,39				38	53	53	54	55 (56)	61	37 (55)57	58, 59,60	64	62
Pomoxis nigromaculatus	(1, 2,3)	3,5, 6,7,8	10, 11		(17)	19,20	6,15(16) 17,19,20	(19)20, 23(65)	25	(26, 27)	24(27, 51,66)	(49,50)	(52)	28, 29	30	31, 32	33	34	36	37, 38,39	40	41, 42	43,45(47)	38	53	53	54	55, 56	(61)	37 (55)57	58, 59,60	21, 64	62, 63
PERCIDAE																																	
**Ammocrypta asprella											(24)51(52)		(52)		30															37(57)			
Ammocrypta beani											51		(52)		30	31, 32	33	34, 35															
†Ammocrypta bifascia												49,50																					
Ammocrypta clara																				37				38	(53)	(53)	(54)	(56)	(61)	(37)			
**Ammocrypta pellucida																				37,38											58, 59,60		
Ammocrypta meridiana											51		(52)																				
Ammocrypta vivax															30	31, 32		34, 35		39				38	53	53	54	(56)	(61)	37,57			
*Etheostoma acuticeps		(6)			(16)																												
Etheostoma asprigene														28, 29		32	33	34		37				(38)	53	(52)			(61)	(37)			
Etheostoma atripinne																															60		
Etheostoma bellum																															(60)		
Etheostoma blennioides	(1)	6,7,(8)9			16,17,18	19,20	6,15,16, 17,19,20	19,20,65		26																		55, 56		(53)57	58, 59,60		
Etheostoma blennius										(26)																							
Etheostoma caeruleum		(5,8)9						65		(26)							33											(56)	(61)		58, 59,60		
Etheostoma camurum		6(7)			(18)		6																								59,60		
+ Etheostoma (Catonotus) sp. (cf flabellare)							(19)																										
Etheostoma chlorosomum											51			28, 29	30	31, 32	33	34	36					38	53	53	54	(55)	(61)	37, (55)57			

*Species recommended for "endangered" status at the September 1974 meeting in Tallahassee, Florida.

**Species recommended for "threatened" status at the September 1974 meeting in Tallahassee, Florida.

†Species described, recognized, or resurrected since Special Publication No. 6 was prepared, and potential species undescribed but currently under study. See Appendix 2.

STATE	Virginia W. Virginia		North Carolina				Tennessee	Georgia		Alabama				Mississippi					La.	Florida			Texas				Oklahoma Arkansas			Ky.	South Carolina	
FISH SPECIES / NATIONAL FOREST	George Washington	Jefferson	Croatan	Uwharrie	Pisgah	Nantahala	Cherokee	Chattahoochee	Oconee	Bankhead	Talladega	Conecuh	Tuskegee	Holly Springs	Tombigbee	Bienville	Homochitto	DeSoto	Delta	Kisatchie	Ocala	Osceola	Apalachicola	Sabine	Angelina	Davy Crockett	Sam Houston	Ozark	St. Francis	Ouachita	Daniel Boone	Sumter	Francis Marion
PERCIDAE (Cont'd)																																	
Etheostoma chlorobranchium					(15)16,17	19,20	15,16,19,20	19																									
Etheostoma cinereum								(65)		(26)																					60		
Etheostoma collettei																				37 (38 39										(57)			
Etheostoma collis				(12)																													
Etheostoma coosae							22	24			24																						
Etheostoma davisoni												49,50																					
**Etheostoma ditrema							22	(24)			24																						
Etheostoma duryi										26																							
Etheostoma edwini												48,50									40		43,44, 45,46										
Etheostoma euronum																												56					
Etheostoma flabellare	1, 2,3	3,4,5, 6,7(8)		12	13,14 (15)17,18	(19)	6,15(17)19			(26)																		55, 56		(55)	58, 59,60		
Etheostoma fusiforme			10, 11		(17)				25			(49,50)			30		33	35		37 (38,39)	40	41, 42	43,44, 45,46,47		(53)	(53)	(54)	(56)	(61)	(37, 55,57)			62, 63
Etheostoma gracile														28, 29	30			35	36	37, 38,39				38					(61)				
Etheostoma histrio											(51)			29	30	31, 32		34		37 (38)39				38	53	53		55 (56)	(61)	37 (53,57)			
Etheostoma hopkinsi									25																							21	
Etheostoma inscriptum						21		21	25																							21	
Etheostoma jessiae					17		16,19,20	65																									
Etheostoma jordani							22	24		27	51,52		52																				
Etheostoma juliae																												56					
Etheostoma kanawhae		(5)																															
Etheostoma kennicotti		9								26																					60		
Etheostoma longimanum	3	3																															
Etheostoma maculatum		6(7)			17	19	19																								60		
Etheostoma microperca																												55		(55,57)			
**Etheostoma moorei																												56					
Etheostoma nigrum	3	3,4 (8)9									51		52	28, 29	30	32												(56)		37 (55)57	58, 59,60		
Etheostoma obeyense																															60		
Etheostoma olmstedi	(1)		10, 11	12					25												40											21, 64	
Etheostoma osburni		5																															
**Etheostoma pallididorsum																														57			
Etheostoma parvipinne									(25)	27	66	(48, 49,50)	52	28, 29	30	31, 32	33	34	36	37				38	53	(53)	(54)			(57)			
Etheostoma podostemone		(4)																															
Etheostoma proeliare											27			28	30	31, 32	33		36	37, 38,39				(38)	53	53	(54)	(55, 56)	(61)	37, 55,57			
Etheostoma punctulatum																												55, 56					

**Species recommended for "threatened" status at the September 1974 meeting in Tallahassee, Florida.

STATE	Virginia	W. Virginia	North Carolina				Tennessee	Georgia		Alabama				Mississippi					La.	Florida			Texas			Oklahoma Arkansas			Ky.	South Carolina	
FISH SPECIES / NATIONAL FOREST	George Washington	Jefferson	Croatan	Uharrie	Pisgah	Nantahala	Cherokee	Chattahoochee	Oconee	Bankhead	Talladega	Conecuh	Tuskegee	Holly Springs	Tombigbee	Bienville	Homochitto	DeSoto	Delta	Kisatchie	Ocala	Osceola	Apalachicola	Sabine	Angelina	Davy Crockett	Sam Houston	Ozark	St. Francis	Ouachita	Daniel Boone	Sumter	Francis Marion
PERCIDAE (Cont'd)																																	
Etheostoma radiosum																														37,57			
Etheostoma rufilineatum		6,7			17	20	6,15, 17,19,20	19,20,65		(26)																				60			
Etheostoma rupestre							22	(24)		27	51,66		(52)			30																	
Etheostoma sagitta		9																													59,60		
Etheostoma serriferum				10, 11																													
Etheostoma simoterum		6,7,8				(19,20)	6,15,16, 17,19,20	65		26																							
Etheostoma spectabile																												55 (56)	(61)	37,55			
Etheostoma squamiceps										26																							
Etheostoma stigmaeum		7					22	24		26, 27	24,27, 51,52,66	49	52	29	30	31, 32	33	34, 35	36	37 (38)39								55, 56	(61)	57	60		
Etheostoma swaini											27,51	49,50	52		30	31, 32		34, 35					45										
Etheostoma swannanoa		6,7			16,17		6,15,16, 17,19,20																										
Etheostoma thalassinum					(14)																											64	
Etheostoma tippecanoe		(7)																													58,59		
**Etheostoma trisella							22																										
†Etheostoma (Ulocentra) spp.		9					22	24		26, 27	24,27 51,52,66	48, 49,50																			58, 59,60		
Etheostoma variatum		(8)																													58, 59,60		
Etheostoma virgatum																															60		
Etheostoma vitreum	(3)																																
Etheostoma whipplei										27	51,27		52	28	30	31, 32	33	34	36	37, 38,39					(53)	53	(54)	55, 56		(37, 55,57)			
Etheostoma zonale		6,7			(16)17	19,20	6,15,16, 17,20,20	(19)20(65)						28		31, 32	33	34										55, 56		(55)57	58, 59,60		
Etheostoma zoniferum															30																		
Perca flavescens		(5)	10, 11	12	(14)	20	20	20,21(65)	(25)																						60	21	62, 63
Percina aurantiaca		(6)7			17	19,20	19,20	20																									
**Percina aurolineata								24			(24,51)																						
Percina burtoni		(6)7			16,17	(19,20)	19,20																										
Percina caprodes		(7)			17		6,15,16, 17,19,20,22	(24)65		27	24,52	(49,50)			30	31, 32		34	36	37,38				38	(53)	(53)	54	55, 56	(61)	37,57	58, 59,60		
Percina copelandi		(7)									(27,51)					31, 32		34										55	(61)	37, 55,57	58,59		
Percina crassa	(3)	3(4)		12	14																												
†Percina (Odontopholis) sp. (cf cymatotaenia)																															59		
Percina evides		7			16,17	19,20	6,15, 16,19,20	19,20(65)																				56			58,59		
**Percina lenticula											(24)51 (52)66		(52)		(30)	32																	
**Percina macrocephala		(6,7)			17																												
†Percina (Alvordium) sp. (cf macrocephala)							22	24		27	52																						
Percina maculata		5,8,9						20		27	51			28, 29	30	31, 32		34		37								55 (56)		(37, 55,57)	58, 59,60		

**Species recommended for "threatened" status at the September 1974 meeting in Tallahassee, Florida.

†Species described, recognized, or resurrected since Special Publication No. 6 was prepared, and potential species undescribed but currently under study. See Appendix 2.

STATE	Virginia		North Carolina				Tennessee	Georgia		Alabama				Mississippi					La.	Florida			Texas				Oklahoma Arkansas			Ky.	South Carolina	
NATIONAL FOREST / FISH SPECIES	George Washington	Jefferson	Croatan	Uwharrie	Pisgah	Nantahala	Cherokee	Chattahoochee	Oconee	Bankhead	Talladega	Conecuh	Tuskegee	Holly Springs	Tombigbee	Bienville	Homochitto	DeSoto	Delta	Kisatchie	Ocala	Osceola	Apalachicola	Sabine	Angelina	Davy Crockett	Sam Houston	Ozark	St. Francis	Ouachita	Daniel Boone	Sumter	Francis Marion
PERCIDAE (Cont'd)																																	
Percina microlepida																								38		(53)							
Percina nasuta																												55, (56)		(55,57)			
Percina nigrofasciata						21	22	(21)23,24	25	27	24,27, 51,66	48, 49,50	52		30	31, 32		34, 35			40	41	43,44, 45,46,47									21	
Percina notogramma	3	3																															
†Percina ouachitae										(26, 27)	(27,51,66)	(49)	(52)		30	31, 32	(33)	34		37								(56)	(61)	(57)			
†Percina (Imostoma) sp. (cf ouachitae)							22																										
Percina oxyrhyncha		5,8																															
Percina palmaris							22	24			24,52																						
**Percina pantherina																														37			
Percina peltata	1, 2,3	3	(10)																														
Percina phoxocephala										(26)																		(55, 56)		37	58, 59,60		
Percina sciera		7			17		19			27				29	30	31, 32	33	34	36	37, 38,39				38	53	53	54	(55, 56)	(61)	37,57	58,59		
Percina shumardi							22	(65)		27	(27,51,66)					31				37,38				38	53	(53)	(54)	(56)	(61)	37(57)	58,59		
Percina squamata					16,17	19,20	15,16,20	(19)20																							59,60		
Percina uranida																												56					
Stizostedion canadense		(7)			17	(19,20)	(6,15,16) 17,19,20								30		33		36	39				38				(56)	(61)	(37, 55,57)	58		
Stizostedion vitreum	(1, 2,3)	(5,7)			(17)	19,20	15(17) 19,20,22	20,21(65)			(24,27, 51,52,66)																	(56)	(61)	(37,57)	58, 59,60		
POMATOMIDAE			10, 11																														
Pomatomus saltatrix																																	
CARANGIDAE			10, 11																														
Caranx hippos																																	
Trachinotus carolinus			10, 11																														
LUTJANIDAE																																	
Lutjanus griseus																					40												
GERREIDAE																																	
Diapterus olisthostomus																					40												
Eucinostomus argenteus			11																														
Eucinostomus gula			10, 11																														
Eucinostomus lefroyi			11																														
POMADASYIDAE			10, 11																														
Orthopristis chrysoptera																																	
SPARIDAE			10, 11																														
Archosargus probatocephalus																					40												
Lagodon rhomboides			10, 11																														
SCIAENIDAE																																	
Aplodinotus grunniens		(7)			17	(19,20)	(6,15,16, 17)19,20	(65)		27	(24)51(52)			28, 29	30	(31, 32)	33		36	37, 38,39				38	53	53	54	55 (56)		(37, 55,57)	58, 59,60		
Bairdiella chrysura																					40												
Cynoscion nebulosus			10, 11																		40												
Leiostomus xanthurus			10, 11																		40												63
Micropogon undulatus			10, 11																		40												
Pogonias cromis			10, 11																														

**Species recommended for "threatened" status at the September 1974 meeting in Tallahassee, Florida.

†Species described, recognized, or resurrected since Special Publication No. 6 was prepared, and species undescribed but currently under study.

STATE	Virginia		North Carolina				Tennessee	Georgia		Alabama				Mississippi						La.	Florida			Texas				Oklahoma Arkansas			Ky.	South Carolina	
FISH SPECIES / NATIONAL FOREST	George Washington	W. Virginia Jefferson	Croatan	Uwharrie	Pisgah	Nantahala	Cherokee	Chattahoochee	Oconee	Bankhead	Talladega	Conecuh	Tuskegee	Holly Springs	Tombigbee	Bienville	Homochitto	DeSoto	Delta	Kisatchie	Ocala	Osceola	Apalachicola	Sabine	Angelina	Davy Crockett	Sam Houston	Ouachita	St. Francis	Ouachita	Daniel Boone	Sumter	Francis Marion
SCIAENIDAE (Cont'd)			10, 11																		40												
Sciaenops ocellata																																	
MUGILIDAE																																	
Agonostomus monticola																					(40)												
Mugil cephalus			10, 11								51							34			40		45	38	53	(53)							62, 63
Mugil curema																					40												
BLENNIIDAE																																	
Chasmodes bosquianus			10, 11																														
ELEOTRIDAE																																	
Dormitator maculatus																					40												
GOBIIDAE																																	
Awaous tajasica																					40												
Gobionellus boleosoma																																	62
Gobiosoma bosci			10, 11																		40												
Microgobius gulosus																					40												
Microgobius thalassinus			10, 11																														
TRIGLIDAE			10,																														
Prionotus carolinus	1, 2,3	6	11																														
COTTIDAE																																	
Cottus bailey1							6,15																										
Cottus bairdi	1,3	3(4)5(8)			15,16, 17,18	19,20(21)	6,15,16, 17,19,20	19,20,21, 23,24(95)																				56			58, 59,60	21	
Cottus carolinae		6,7			17	(19,20)	6,15,17, 19,20,22	24,65		26	24,51,66																	53, 56			60		
Cottus carolinae infernatus											51,66																						
Cottus carolinae zopherus										26	24																						
†Cottus sp. (cf carolinae)											52																						
Cottus cognatus	(1) 2																																
Cottus girardi	1,3																																
*Cottus pygmaeus											(24)																						
BOTHIDAE			10,																														
Citharichthys spilopterus			11																														
Paralichthys dentatus			10, 11																														
Paralichthys lethostigma			10, 11																		40												
SOLEIDAE			10,																														
Trinectes maculatus			11																		40		43,45										62, 63
CYNOGLOSSIDAE			10,																														
Symphurus plaguisa			11																														
BALISTIDAE			10,																														
Monacanthus hispidus			11																														
TETRADODNTIDAE			10,																														
Sphoeroides maculatus			11																														

*Species recommended for "endangered" status at the September 1974 meeting in Tallahassee, Florida.

†Species described, recognized, or resurrected since Special Publication No. 6 was prepared, and potential species undescribed but currently under study. See Appendix 2.

APPENDIX 1

Code No.	*Drainage*	*Code No.*	*Drainage*
1	Potomac	34	Pascagoula
2	Shenandoah	35	Biloxi Bay
3	James	36	Yazoo
4	Roanoke	37	Red
5	New (Va.)	38	Sabine
6	Holston	39	Calcasieu
7	Clinch-Powell	40	St. Johns
8	Big Sandy	41	Suwannee
9	Cumberland (Va.)	42	St. Marys
10	Neuse	43	Apalachicola
11	New-Whiteoak-Newport	44	New (Fla.)
12	Peedee	45	Ochlockonee
13	Yadkin	46	Sopchoppy
14	Catawba	47	St. Marks
15	Watauga	48	Blackwater
16	Nolichucky	49	Conecuh
17	French Broad	50	Yellow
18	Pigeon	51	Cahaba
19	Little Tennessee	52	Tallapoosa
20	Hiwassee	53	Neches
21	Savannah	54	San Jacinto
22	Conasauga	55	Arkansas
23	Chattahoochee	56	White
24	Coosa	57	Ouachita
25	Altamaha	58	Licking
26	Tennessee	59	Kentucky
27	Warrior	60	Cumberland (Ky.)
28	Little Tallahatchie	61	St. Francis
29	Wolf	62	Santee
30	Tombigbee	63	Cooper
31	Pearl	64	Santee-Cooper
32	Leaf	65	Chickamauga
33	Homochitto	66	Alabama

APPENDIX 2

Scientific Name	*Common Name*	*Status*
Hybognathus regius	Silvery minnow	Resurrected
Hybopsis lineapunctata	Gravel chub	Described
Hybopsis winchelli	Clear chub	Resurrected
Hybopsis zanema	Santee chub	Resurrected
Notropis (Alburnops) spp.	—	Under study
Notropis atrapiculus	Blacktip shiner	Described
Notropis gibbsi	Tallapoosa shiner	Described
Notropis harperi	Redeye chub	Reassigned from *Hybopsis*
Notropis sp. (cf semperasper)	—	Under study
Notropis sp. (cf volucellus)	—	Under study
Phoxinus sp. (cf oreas)	Silverspot dace	Under study
*Carpiodes forbesi**	Plains carpsucker	Resurrected
Carpiodes sp. (cf velifer)	—	Under study
Moxostoma sp. (cf poecilurum)	Grayfin redhorse	Under study
Noturus taylori	Caddo madtom	Resurrected
Ambloplites ariommus	Bigeye rockbass	Resurrected
Micropterus sp. (cf coosae)	Shoal bass	Under study
Ammocrypta bifascia	Florida sand darter	Described
Ammocrypta meridiana	Southern sand darter	Described
Etheostoma (Catonotus) sp. (cf flabellare)	Duskytail darter	Under study
Etheostoma chlorobranchium	Greenfin darter	Described
Etheostoma (Ulocentra) spp.	Snubnose darter	Under study
Percina (Alvordius) sp. (cf macrocephala)	Bridle darter	Under study
Percina (Imostoma) sp. (cf ouachitae)	Amber darter	Under study
Percina macrolepida	Big scaled logperch	Described
Percina ouachitae	Ouachita darter	Resurrected
Percina (Odontopholis) sp. (cf cymatotaenia)	—	Under study
Cottus sp. (cf carolinae)	Eight pored sculpin	Under study

* Considered synonymous with *Carpiodes cyprinus* by many ichthyologists.

ACKNOWLEDGMENTS

Basic data for this paper was provided through contacts between the U. S. Forest Service and the following individuals:

Dr. Neil H. Douglas, Northeast Louisiana University
Dr. David A. Etnier, University of Tennessee
Dr. Robert E. Jenkins, Roanoke College (Virginia)
Dr. Henry W. Robison, Southern State College (Arkansas)
Dr. Carter R. Gilbert, University of Florida, Gainesville
Dr. Ralph W. Yerger, Florida State University, Tallahassee
Dr. Harold A. Loyacano, Clemson University
Dr. Herbert T. Boschung, University of Alabama
Dr. John S. Ramsey, Auburn University
Dr. Branley A. Branson, Eastern Kentucky University

LITERATURE CITED

Bailey, Reeve, M., John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, and W. B. Scott, 1970. A List of Common and Scientific Names of Fishes from the United States and Canada. American Fisheries Society, Special Publication No. 6. Washington, D. C.

U. S. Department of Interior, 1974. United States List of Endangered Fauna. Fish and Wildlife Service. Washington, D. C. 22 pages.