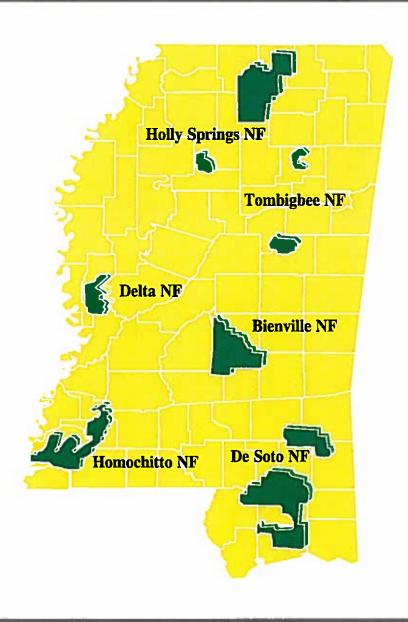


Fiscal Year 2012 Monitoring Questions National Forests in Mississippi



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Monitoring and Evaluation Questions and Answers FY 2012

The National Forests in Mississippi (NFsMS) is currently revising its Forest Land and Resource Management Plan (Forest Plan). A Revised Forest Plan has been made available for review. Monitoring and evaluation of Forest Plan actions is a continuous process that occurs throughout the revision and implementation process.

During the forest plan revision process, the monitoring and evaluation documented for fiscal year (FY) 2012 is being presented in an abbreviated question and answer format.

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National Forests in Mississippi

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What desired future conditions will be objectives in the Revised Forest Plan?

FY 2011 forest type data from the vegetation database (FSVeg) queries were analyzed to determine acreage by broad forest cover types (working groups) within lands classified as suitable for timber. Those broad forest cover types are illustrated in Figure 1, below.

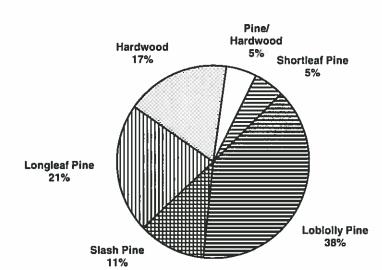


Figure 1. Forest types of NFsMS, 2011.

The Revised Forest Plan was preceded by Amendment #13 to the 1985 Forest Plan. Amendment #13 introduced and expanded the concept of ecosystem management on the National Forests in Mississippi. For the Revised Forest Plan effort, the various ecological systems that occur on the National Forests in Mississippi were defined using NatureServe's classification system (NatureServe 2004a, 2004b), National Forest System forest types, and Natural Resource Conservation Service soil drainage types. Based on these classifications forest types in the 1985 plan have been broadened into ecological systems as illustrated below in Table 1.

Table 1 identifies the 24 ecological systems and their general distribution across the units that make up the National Forests in Mississippi. Due to the unique character and distance between the two units that make up the Holly Springs National Forest (Holly Springs and Yalobusha) and the two units that make up the Tombigbee National Forest (Ackerman and Trace), data for these national forests are broken out by unit for ecological conditions discussions. Systems with asterisks are considered rare ecological systems within the Revised Forest Plan. These (embedded) systems either require special management or are naturally small in scale or distribution relative to the broader systems they occur within. Maps of the various ecological systems on each unit are available on the National Forests in Mississippi website at the following internet address: http://www.fs.fed.us/r8/mississippi/forest_plan/forest_revision/index.htm.

Table 1. Distribution of ecological systems on the National Forests in Mississippi

Table 1. Distribution of ecological system	T 0.11	140	LIOIIA	_			-paiph		_
				Ur	nit Nar	ne			
Ecological System	Bienville	Chickasawhay	De Soto	Homochitto	<u>Delta</u>	Holly Springs	<u>Falobusha</u>	Ackerman	Trace
Upland Longleaf Pine Forest and Woodland	-	•							
Shortleaf Pine-Oak Forest and Woodland	-					=	=	=	
Loblolly Pine Forest		=		=		=	=	=	
Southern Lobiolly-Hardwood Flatwoods	-								
Slash Pine Forest									
Northern Dry Upland Hardwood Forest						=	-	=	
Southern Dry Upland Hardwood Forest	=	=		=					
Southern Loess Bluff Forest				=					
Southern Mesic Slope Forest	=	=		=					
Northern Mesic Hardwood Forest								=	
Floodplain Forest	-	-		=		-	=	=	
Lower Mississippi River Bottomland and Floodplain Forest					•				
Near-Coast Pine Flatwoods			•						
Xeric Sandhills*		-	•						
Rock Outcrops*	=	=		=		-	=	=	•
Black Belt Calcareous Prairie and Woodland*									
Jackson Prairie and Woodland*	-								
Ephemeral Ponds and Emergent Wetlands*	-	=	=						
Cypress Dominated Wetlands*				-	-	=			
Wet Pine Savanna*			=						
Seeps, Springs, and Seepage Swamps*		-	=				=		
Herbaceous Seepage Bog and Flats*		-							

^{*} Rare ecological systems within the forest plan

With these ecological systems in mind, current forest type conditions were evaluated and compared to the desired future conditions identified in the analysis. That comparision is illustrated in Table 2, below.

Table 2 displays the approximate current and desired percentage of each ecological system for the various units of the National Forests in Mississippi. The desired condition for abundance of each system is indicated as a range of ecologically optimum percentages for each geographic area.

Table 2. Desired Future Conditions by unit on the National Forests in Mississippi

		Cu	rrent an	d Desire	d Perce	nt of E	cologi	al Syst	em by U	nlt
Ecologica! System		Bienville	Chickasawhay	De Soto	Homochitto	Delta	Holly Springs	Yalobusha	Ackerman	Trace
	ç	3	40	45						
Upland Longleaf Pine Forest and Woodland	D	20-30	65-73	64-74	69-78					
Shortleaf Pine-Oak Forest	<u>c</u>	3					28	4	12	14
and Woodland	<u>D</u>	5-15					34-52	34-52	30-47	28-43
	<u>C</u>	31	16	13	76		38	65	53	51
Loblolly Pine Forest	D	0-5	0-5	0-5	0-5		0-5	0-5	0-5	0-5
Southern Loblolly-Hardwood	<u>C</u>	38								
Flatwoods	<u>D</u>	35-45								
	CI		26	21				2		
Slash Pine Forest	D		0-5	1-7				0		
Northern Dry Upland	CI						21	18	20	16
Hardwood Forest	D						34-51	34-52	30-46	28-43
Southern Dry Upland	c	2	1	1	3					
Hardwood Forest	D	0-5	0-5	0-5	3-12					
	<u>C</u>				2					
Southern Loess Bluff Forest	D				3-10					
	Ç	11	2	2	4					
Southern Mesic Slope Forest	D	5-15	0-5	1-8	2-10					
Northern Mesic Hardwood	<u>c</u>						10	10	12	15
Forest	D						6-13	1-8	6-12	18-24
	C	12	15	6	6		2	2	3	2
Floodplain Forest	D	10-20	23-32	12-20	9-16		6-13	11-18	16-22	7-13
Lower Mississippi River Bottomland and Floodplain	Ç					100				
Forest	D					100				
Near-Coast Pine Flatwoods	<u>c</u>			4						
	D			3-9						
	<u>C</u>									
Wet Pine Savanna	D			0.6-7						

C-Current, D-Desired

What were the harvest accomplishment trends for the last 11 years in terms of volume and acres?

Recent harvest accomplishment trends are summarized in Table 3. Note the harvest increase in FY 2006 represents the salvage timber resulting from Hurricane Katrina. In most cases the salvage timber was harvested utilizing a moderate to heavy thinning.

Table 3. NFsMS timber harvest volume and acres 2002 – 2012.

Fiscal Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Volume - MMBF	33	42	89	77	308	62	68	72	75	63	72
Volume - MMCF	6	8	18	15	62	12	14	15	16	13	15
Intermediate Acres (x 1,000)	3	2	7	6	112	6	8	7	6	4	6.5
Regeneration Acres (x 1,000)	3	j	3	2	2	0.3	1	1	1	0.7	1.4

What progress was made in the control of non-native invasive species in FY 2012?

Non-native invasive species (NNIS) are an ever-increasing problem on NFsMS. These species threaten forest health and ecosystems by reducing natural diversity and habitat for fish, wildlife and native plants, as well as affecting soil stability. Effective treatment and control is compounded by the intermingled ownership pattern of federal, state, county, and private land throughout the state. The accelerated spread of noxious weeds has led to increased public awareness of the environmental problems associated with weeds. The National Forests in Mississippi is a major partner in the Mississippi Cooperative Weed Management Area along with USDA Natural Resources Conservation Service (NRCS), Mississippi Department of Transportation (MDOT), Federal Highway Administration, Mississippi Forestry Commission, and others.

Each year, the NFsMS uses the noxious weed control strategy to manage NNIS. The noxious weed control strategy outlines five emphasis areas which include: (1) cooperation, (2) education and prevention, (3) inventory, (4) control, and (5) monitoring. Kudzu and cogongrass are the priority species of concern although other pest plants of interest include water hyacinth, Nepalese browntop, tropical soda apple, Nonnative bamboos, nonnative wisterias, and Chinese silvergrass. Table 4 shows the number of acres treated for NNIS by district for FY 2008-2012.

Table 4. Acres treated for non-native invasive species by year on NFsMS lands.

District	2008	2009	2010	2011	2012
Bienville	0.0	93.0	65.0	27.0	29.0
Chickasawhay	2,137.0	62.5	105.0	46.8	25.1
Delta	14.0	10.0	0.0	0.0	0
De Soto	221.0	405.0	850.0	150	150.0
Holly Springs	461.0	1,078.0	1389	1389	1389
Homochitto	30.9	73.0	58.5	60.2	61
Tombigbee	13.0	313.0	1106	1106	1106
Total	2876.9	2034.5	3535.5	2777.3	2760.1

Cogongrass is aggressively spreading on roadsides within the De Soto, Chickasawhay, Bienville, and Tombigbee Ranger Districts and has recently been discovered on the Homochitto Ranger District. The National Forests in Mississippi is a member of the Mississippi Cogongrass Task Force, assisting partner agencies in training and educational events. The Task Force has taken the lead role in developing a regional coordination strategy that includes all invasive species. Treatment is planned and accomplished annually. Districts have also partnered with landowners, MDOT, our armed forces, and others who contribute labor to treat cogongrass infestations.

Kudzu is an invasive species on the Holly Springs and Tombigbee Ranger Districts impacting an estimated 20,000 and 7,000 acres respectively. It also occurs on the Bienville, De Soto, and Homochitto Ranger Districts, but to a much lesser extent. Statewide, the estimated loss in timber related revenues due to kudzu infestations is 54 million dollars per annum. The National Forests in Mississippi has completed a National Environmental Policy Act (NEPA) analysis for a systematic program to control and reduce kudzu infestations on the Holly Springs, Tombigbee, and Bienville Ranger Districts. The majority of the infested areas are within 150 to 200 feet of roads. The program emphasizes treatment of current and prevention of future infestations of kudzu on all three districts, with the goal of eventual elimination of this invasive species. The control strategy for this NNIS is: 1) locate and eradicate small isolated infestations of kudzu, preventing establishment of new patches; 2) control and stop the spread of well-established kudzu populations by reducing the vigor and health of these patches with repeated treatments over time until eradication has occurred; 3) continue to monitor treated patches to ensure that kudzu is eradicated.

Previously, the control of kudzu in north Mississippi had been considered too complex to address due to the expansive coverage and growth rate of kudzu combined with the mixed land ownership. The Holly Springs Ranger District has formed a Kudzu Coalition (The Coalition), which consists of local, state, and federal agencies along with conservation groups and academia, to address these challenges. A baseline survey of Mississippi's 82 counties was completed during July-August 2004 and found kudzu in 72 counties. This survey identified approximately 546,000 acres of privately-owned forest land impacted with kudzu, and 17 counties with kudzu infestation of more than 10,000

acres. Since then, The Coalition has applied for several state and federal grants and has created a Memorandum of Understanding (MOU) amongst its partners to better leverage funds and share expertise in the treatment of kudzu. These funds have allowed The Coalition to educate the public about kudzu and control methods to combat this invasive weed. As a result, private landowners, utility companies, conservation organizations and local, state, and federal officials are collaborating to control kudzu across the landscape.

Starting in FY2010, one contract has been used to accomplish all kudzu control for both the Holly Springs and the Tombigbee Ranger Districts which requires the contractor to buy and apply the herbicide across each district. For FY 2010 and 2011, this contract was used to treat the aforementioned acreages while also including an additional 1700 acres for treatment during 2010 - 2012.

What prescribed burning accomplishments were completed in FY 2012?

Table 5 below illustrates the prescribed burning accomplishments on the National Forests in Mississippi during fiscal year 2012.

Table 5. Prescribed burning accomplishments for FY 2012 by Ranger District on NFsMS.

District	Dormant Season Accomplishment (Acres)	Growing Season Accomplishment (Acres)	District FY12 Accomplishment (Total Acres)
Bienville	9,673	8,820	18,493
Chickasawhay	11,400	14,380	25,780
De Soto	28,971	23,053	52,024
Delta	0	0	0
Holly Springs	12,640	3,849	16,489
Homochitto	11,495	15,873	27,368
Tombigbee	10,946	3,328	14,274
Total Acres	85,125	69,303	154,428

How did the current prescribed burning accomplishments compare to previous years?

The following table illustrates accomplishments by Ranger District for FY2007 through FY2012.

Table 6. Prescribed burning accomplishments for FY2007-2012 by Ranger District on NFsMS

District	2007	2008	2009	2010	2011	2012
Bienville	32,243	20,818	36,426	27,184	21,590	18,493
Chickasawhay	33,178	20,703	33,190	29,530	9190	25,780
De Soto	86,447	92,929	110,346	101,384	31,810	52,024
Delta	9	34	99	0	0	0
Holly Springs	18,447	14,481	21,036	23,354	15,788	16,489
Homochitto	37,903	31,009	32,066	29,668	25,609	27,368
Tombigbee	22,528	17,681	18,002	17,043	4072	14,274
Total	230,755	197,655	251,165	228,163	108,059	154,428

How is the Forest Service monitoring surface water quality?

Rain or spring water that can be accessed in flowing drains, creeks or rivers is surface water. According to the Mississippi Department of Environmental Quality (MDEQ), "over 93% of drinking water supply in Mississippi originates from the eighteen major aquifers in the state. Only three public surface water systems presently operate in the state: (1) the city of Jackson uses a combination of ground water and surface water from the Ross Barnett Reservoir/Pearl River; (2) the cities of Tupelo and Fulton receive their drinking water from the Tombigbee River; and (3) Short-Coleman Water Association diverts water from Pickwick Lake." (MSDEQ website).

In monitoring surface waters, the Forest Service tests for fecal coliform and e-coli at swim areas at Clear Springs and Okhissa Lake on the Homochitto Ranger District and in other recreational areas across the state. Watersheds (creeks with active flow) above and below active oil and gas fields have been monitored by the Homochitto Ranger District since the early 1970's. An increase of sodium chloride in the sample is a good indicator of a saltwater spill, leak or some other undesirable event in a field. Originally sodium chloride was the only substance tested for, but as affordable testing equipment has become available the parameters of the testing have grown. Today the NFsMS monitor conductivity, salinity, pH, temperature and total dissolved solids (TDS). These monitoring efforts continue through FY 12.

How is the Forest Service monitoring for subsurface water quality?

Subsurface water consists of ground water or capillary water. Groundwater exists in the zone of saturation, and may be fresh or saline. Most private freshwater or drinking water wells in MS are from 100 to 400 feet deep. According to the MDEQ, the average well depth for public water systems in MS is approximately 780 feet.

Contaminated subsurface water can show up in the surface water. If an aquifer feeding a spring becomes contaminated, the presence of a pollutant will be detected and indicated by a change in TDS with our current monitoring system. Currently the FS does not require subsurface testing/monitoring for oil/gas operations. Monitoring for subsurface water quality is primarily controlled by the state of Mississippi through the Mississippi Oil and Gas Board (MSOGB) and MDEQ through statewide rules and regulations. The Mississippi Oil and Gas Board is charged with the regulations concerning the drilling, casing and plugging of wells to prevent: 1) the escape of oil or gas out of one stratum to another; 2) the intrusion of water into an oil or gas stratum from a separate stratum; 3) the pollution of freshwater supplies by oil, gas or saltwater. Mississippi code of 1972, as amended, SEC. 17-17-47 gives exclusive authority to MSOGB for regulation of oil field waste products(#53-1-17. Powers of Board). Mississippi Department of Environmental Quality regulates all ground-water issues other than those associated with oil and gas and conducts research into environmental issues (MS Commission on Environmental Quality, Regulation LW-2, "Surface Water and Groundwater Use and Protection"). In addition, the Bureau of Land Management (BLM) and United States Geological Survey (USGS) assist the state of Mississippi in monitoring subsurface water. These monitoring efforts continue through FY12.

http://www.deq.state.ms.us/mdeq.nsf/page/FS_SurfaceWaterQualityAssessments?OpenDocument

Groundwater site link at the MS O&G site: http://www.gwpc.org/home/GWPC_Home.dwt

Mississippi USGS info: http://ms.water.usgs.gov/

What progress has been made in gopher tortoise management in FY 2012?

Generally, all prescribed burns improve gopher tortoise habitat. Although the focus is on growing season burns to restore gopher tortoise habitat, it is not always possible due to funding, smoke management regulations, and environmental factors such as weather conditions. Dormant season fire can be a beneficial tool to maintain habitat and reduce fuel content to allow for a growing season fire at a later date. As a general strategy, the

NFsMS plan to first conduct dormant season burns to reduce the fuel load before implementing growing season burns. Table 7 illustrates seven years of burning history on the De Soto and Chickasawhay Ranger Districts. Although it indicates that burning was low in FY2006, this is a direct result of impacts from Hurricane Katrina and the following short-term drought conditions. In 2011, growing season burning was not implemented due to smoke management issues and drought. Growing season prescribed fire resumed in 2012.

Table 7. Recent Prescribed Burning Accomplishments, De Soto and Chickasawhay Ranger Districts.

	2005	2006	2007	2008	2009	2010	2011	2012		
	Desoto									
Dormant	70,457	13,044	74,017	76,562	81,270	85,103	31,810	27,271		
Growing	22,651	1,520	12,430	10,944	30,753	16,281	0	23,341		
Total	93,108	14,564	86,447	87,506	112,023	101,384	31,810	50,612		
			Cl	hickasawl	ay					
Dormant	18,107	14,496	8,785	13,595	25,667	18,657	9,100	8,176		
Growing	18,204	0	24,393	7,108	7,513	10,873	0	18,112		
Total	36,311	14,496	33,178	20,703	33,180	29,530	9,100	26,288		

The Mason Creek Habitat Restoration Stewardship Project began on the Chickasawhay Ranger District in 2010. This is a 27,000 acre stewardship project designed to address critical habitat needs for both game and non-game species, to control noxious weeds, and to improve gopher tortoise habitat on "suitable soils." In 2012, approximately 146 acres of high density suitable soil habitat was thinned to a basal area more conducive to the gopher tortoise. Additionally, 208 acres of midstory removal was completed along with 27 acres of cogongrass control to promote a preferred grassy understory conditions for the tortoise.

The De Soto Ranger District signed the Decision Notice for the Gopher Tortoise Habitat Improvement with Herbicide Environmental Assessment (EA) on August 20, 2007. The purpose of this EA was to restore and improve habitat for the federally threatened gopher tortoise. This EA includes the herbicide treatment of all gopher tortoise potential habitat on the District utilizing several different herbicides and methods. In 2012, a contract was awarded which will include 5,471 acres of habitat improvement through mechanical fuels treatment, herbicide treatment, timber thinnings, longleaf restoration, cogongrass control, and cool season wildlife opening management to establishing native warm season grasses.

The "Ecosystem Restoration for Gopher Tortoise and Red Cockaded Woodpecker Habitat" project for the De Soto Ranger District was signed in 2008. This project proposes to improve gopher tortoise and red-cockaded woodpecker (RCW) habitat on pine and pine-hardwood forests through thinning and longleaf restoration (removal of offsite pine species and restoring longleaf pine) outside of the Camp Shelby Special Use Permit area. This authorized fuels reduction project was proposed under the Healthy Forest Restoration Act of 2003 (HFRA) Title 1, Section 102(a) (5)-Threatened and

Endangered (T&E) Species Habitat, to provide better protection from catastrophic wildfires for T&E species habitat by reducing hazardous fuels and restoring safer fire-dependent ecosystem conditions.

The Camp Shelby Stewardship Project Proposal was finalized and approved by the Regional Forester in 2011. Under this proposal, over the next 5-6 years, the DeSoto Ranger District, TNC, and Camp Shelby expect to improve 900 acres of gopher tortoise habitat using herbicide, improve 25 acres of wildlife openings by restoring native herbaceous groundcover, improve 700 acres by thinning and control 140 acres of cogongrass by treatment within the Camp Shelby SUP. In 2012, a contract was awarded to Hood Industries which will include regenerating 366 acres, gopher tortoise habitat enhancement with herbicide (240 acres), cogongrass control (50 acres), and native herbaceous plant restoration on 25 acres of wildlife openings. Work will begin in 2013.

Camp Shelby and The Nature Conservancy continue to monitor tortoises from the tortoise hatchling headstart research project that began in 2006. Dr. Jeanne Jones and Nicole Hodges from Mississippi State University are currently working on the following research project: Evaluation of Forage and Soil Nutrient Levels in Habitats of Gopher Tortoises (*Gopherus polyphemus*) in south Mississippi.

What progress toward reaching red-cockaded woodpecker population goals was made in FY 2012?

The Revised Recovery Plan for the RCW (2003) lists three key management actions as essential to the success of the recovery of this species: 1) development of large old pines to serve as cavity trees, 2) restoration and maintenance of appropriate habitat structure, and 3) protection of existing cavity trees. The National Forests in Mississippi continue to improve and maintain favorable habitat conditions for RCW using different strategies tailored to individual populations and habitat conditions. It is the implementation of these strategies, carefully designed to meet the conditions of each of four very different populations and habitat, which will continue to enhance RCW recovery on the NFsMS.

Currently there are 355 total active RCW clusters on the NFsMS, an increase from the 338 active clusters listed in the FY2011 Monitoring and Evaluation report. Although still far short of population goals of 1,595 active clusters, the numbers of active clusters have increased during the past 20 years (Figure 2).

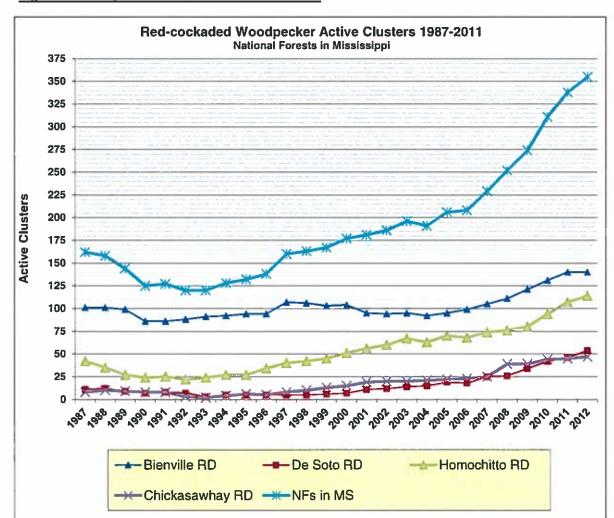


Figure 2. History of active RCW clusters on NFsMS.

Although total acres of mature yellow pine forest has declined since 1981, the condition of the remaining pine forest habitat is much improved due to an aggressive prescribed fire program, application of midstory control, and installation of artificial cavities. Aggressive application of prescribed fire has been critical to maintaining open habitat conditions on the four districts where RCW occur. Installation and maintenance of inserts and management of natural cavities have corresponded with increases in both the number of individuals in family groups (increased group size), and in numbers of clusters (population expansion) on the Bienville, Chickasawhay, De Soto and Homochitto Ranger Districts. Maintenance of cavities on all units is critical to RCW occupation and population expansion. Off-site pine continues to be restored to longleaf pine in areas where longleaf pine historically occurred. As these young longleaf stands are released from competition and grow into mature stands, increased acreage in this forest type will enhance habitat conditions for RCW. Figure 3 summarizes RCW habitat improvements and population trends on the NFsMS since 1988.

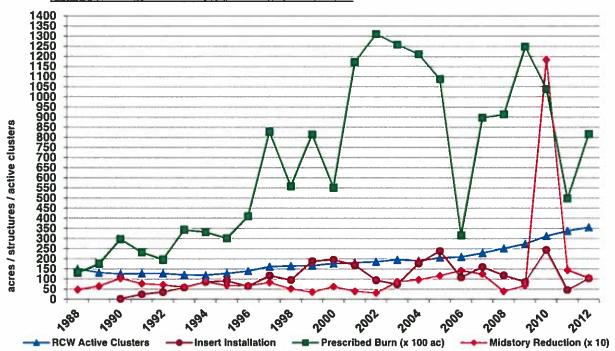


Figure 3. RCW habitat improvement on the NFsMS.

In addition to habitat improvement efforts on the NFsMS, RCW populations have been augmented in recent years by translocating birds from larger populations. These translocations have increased overall populations and enhanced genetic integrity on districts with smaller populations (Chickasawhay and De Soto Ranger Districts). On the Chickasawhay, augmentation has been critical to the survival of the species. In 1992, only three single males remained on the district. With the augmentation of females to these males, and continued augmentation of both singles and pairs, this population now contains 47 active groups. The De Soto population reached 54 active clusters and 51 potential breeding groups (PBG) in 2012. Further growth is expected with current management, natural recruitment, and future translocations.

What is the status of forest bird inventories?

Conservationists have long been concerned about apparent range-wide population declines of many forest and grassland birds, especially those that migrate to Central and South America (neotropical migrants). A coordinated program for monitoring land bird populations has been developed to provide information about population status and trends of breeding birds on national forests in the Southern Region. It involves several thousand permanent monitoring stations on national forests across the South, covering all major physiographic regions and habitat types. Each point is visited yearly using standard procedures to record all birds present. The resulting data resides and is analyzed in a Regional database (R8 Bird). Regional analysis has recently been completed from 35,486 counts at 4,945 point-count stations on 14 national forests in the Southern Region for the period from 1992 to 2004. In this analysis, there was evidence that population increased for 42 species and decreased for 38 species on national forests in the Southern Region as a whole.

Annual bird point counts for the NFsMS were begun in 1994 and are now conducted annually on each district. From 1994 to July 2011, 135,959 individual birds of 153 species from 10,360 bird point counts have been recorded (Table 8). Of the 29 priority species outlined in the Landbird Conservation Strategy, 23 were detected on the NFsMS during the sample period. Species not detected during the point counts were American swallow-tailed kite, American woodcock, cerulean warbler, Henslow's sparrow, loggerhead shrike, and Mississippi sandhill crane.

Table 8. Number of birds and species reported on point counts from 1994 to 2011.

Forest	Total Number of Birds	Number of Species	Number of Point Counts	Number of Years Reported
Bienville NF	19,273	87	1,793	14
De Soto NF	9,024	82	836	14
Homochitto NF	48,113	107	3,746	17
Chickasawhay NF	10,400	103	993	14
Delta NF	16,423	90	918	9
Holly Springs NF	28,501	107	1,674	14
Tombigbee NF	21,485	97	1,999	15
TOTALS	153,219	155**	11,729	

[&]quot;Number of species that occur on at least one of the individual forest counts.

The five most common species detected for each forest are reported in the following table. Two of the most common species, prothonotary warbler and hooded warbler, are priority species outlined in the Landbird Conservation Strategy for the East Gulf Coastal Plain Forests.

Table 9. Five most common birds by Ranger District

Five	Most Com	mon Birds l	ıv Ranger F	District	
	CARW	NOCA	BLJA	ETTI	AMCR
Bienville RD	(.639)	(.637)	(.582)	(.563)	(.517)
Da Cata DD	EATO	NOCA	CARW	COYE	YBCH
De Soto RD	(.604)	(.588)	(.534)	(.528)	(.514)
Homochitto RD	REVI	NOCA	ETTI	HOWA	PIWA
Homochino KD	(.649)	(.529)	(.510)	(.4 9 9)	(.452)
Chieleseeshee DD	CARW	REVI	NOCA	HOWA	PIWA
Chickasawhay RD	(.632)	(.558)	(.533)	(.523)	(.504)
Delta RD	NOCA	INBU	PROW	CARW	RBWO
Della KD	(.874)	(.714)	(.697)	(.688)	(.686)
Holly Springs RD	INBU	PIWA	ETTI	REVI	EAWP
Hony Springs KD	(.674)	(.636)	(.583)	(.575)	(.471)
Tombigbee RD	REVI	ETTI	NOCA	AMCR	PIWA
	(.635)	(.533)	(.526)	(.437)	(.436)
NFsMS	NOCA	REVI	ETTI	CARW	PIWA
	(.556)	(.543)	(.506)	(.457)	(.427)

NOCA = Northern Cardinal

EATO = Eastern Towhee

REVI = Red-eyed Vireo

CARW = Carolina Wren INBU = Indigo Bunting

ETTI = Eastern Tufted Titmouse

PIWA = Pine Warbler

AMCR = American Crow

YBCH = Yellow-breasted Chat HOWA = Hooded Warbler

PROW = Prothonotary Warbler

BLJA = Blue Jay

COYE = Common Yellowthroat

RBWO = Red-bellied woodpecker

Analysis of bird point count monitoring for species of birds selected as management indicator species (MIS) has been reported upon in the report, "Management Indicator Species Population and Habitat Trends." Evaluation of this data is reported therein and is not repeated in total here, although it is summarized and new findings available since that report was completed are mentioned where applicable.

Monitoring of distribution and abundance of breeding forest birds (including neotropical migrants) is an important aspect of the Forest Service commitment to providing habitats for these important indicators of habitat quality and stability. To that end, breeding bird point counts should continue with suitable adjustments to numbers of point counts as needed for statistical validity and to ensure that point counts are being made in the proper habitats.

^{*}Number in parentheses () is percent of bird total count represented by species.

What accomplishments in Heritage Resource Program management have been completed for FY 2012?

The National Forests in Mississippi continue to monitor heritage resource sites. Table 10 lists the sites on the Chickasawhay Ranger District evaluated in 2012.

Table 10. Heritage resource sites evaluated in FY 2012 on the Chickasawhay Ranger District.

Chickasawhay Ranger District						
The following sites have been checked for boundary integrity, erosional damage, and ground disturbing activity. No damage was found on any site monitored.						
22-GN-583	22-WA-872					
22-GN-702	22-WA-992					
22-GN-806	22-WA-995					
22-GN-809	22-WA-1101					
22-WA-642 Tanya's Knoll	22-WA-676 Gopher Farm					

What important activities occurred in FY 2012 to improve the transportation system and public safety?

The National Forests in Mississippi, working in cooperation with MDOT State Aid, has replaced 21 bridges in and around the national forests under the Forest Highway Program. The NFsMS has also paid for the design of 4 more bridges. The Forest Highway Program, administered by the Federal Highway Administration, allows the NFsMS to improve the transportation infrastructure on critical non-federal routes in and around national forests. Practically speaking, this program enables the NFsMS to replace weight limited county bridges that are hindering the accessibility of logging vehicles, fire transports, construction equipment, and other heavy trucks and equipment to certain areas of the forest.

What major changes were made to the forest transportation system to increase efficiency?

In FY12, 116 miles of road were decommissioned (permanently removed from service). Virtually all of these roads were already closed to public use, so impacts to the traveling public were negligible. The work required for decommissioning varied from road to

road, but generally involved a combination of activities such as removing culverts, ripping and/or disking the roadbed, installing waterbars, restoring natural contours, and seeding. The National Forests in Mississippi historically harvested much more timber than it currently does and therefore utilized an extensive network of roads. These roads were constructed or reconstructed for timber sales, then closed afterward with the expectation they would be needed again within a few years. However, with small volumes of timber now being cut, many of those closed roads will not be needed for many years, if ever. The decision was made to decommission those roads and if or when timber sale access is ever needed again in one of these areas, temporary access will be established. Although decommissioning does not immediately obliterate a road, the work stabilizes and restores the land, giving nature a good head start to erasing all traces of it.