

EXHIBIT 42

APPENDIX D
NANTAHALA/PISGAH PLAN AMENDMENT #5
MONITORING TASK SUMMARY

APPENDIX D

TABLE D-1 MONITORING TASK SUMMARY TABLE

MONITORING TASK NO	MONITORING QUESTION	Monitoring Item	Method of Collection	Duration/Frequency	Precision	Reliability	Responsibility	Cost
1	VQO's for management areas being met	NEPA documentation, Field Review	Sample of projects	Annually	High	High	Monitoring Team, Integrated Resource Review Team, Forest LA	
2	Visually Sensitive areas moving towards a more continuous, natural appearing canopy	Field Review	Sample of areas	Annually	Moderate	High	Integrated Resource Review Team, Forest Landscape Architects	
3	Is scenery being maintained or enhanced?	Report to Monitoring Team, Field Review	Ask District Rangers, Sample of Projects	Annually	High	High	Monitoring Team, District Forest LA IRR Team	
4	Management activities moving MAs towards providing the desired recreational setting	Field Review, reports to Recreation unit	Sample of areas, survey Resource Assistants	Annually	Moderate	High	Integrated Resource Review Team, Monitoring Team	
5	Are health and safety hazards corrected? Has accessibility improved?	Review of projects	Summary report	Annually	High	High	Forest accessibility coordinator IRR Team	
6	Silvicultural treatments effective for producing desired regeneration	Report to Forest Silviculturist	4-year regeneration check	Annually	High	High	Forest Silviculturist IRR Team	
7	Is a continuous supply of high quality hardwood sawtimber available for harvest in MA 1B and MA 3B?	Bid monitoring records	Check 2400-17 forms	Annually	High	High	Forest Timber Sale Administrator IRR Team	
8	Is emphasis on producing high quality hardwood sawtimber in MA 1B and MA 3B?	Silvicultural Prescriptions	Sample prescriptions	Annually	High	High	Forest Silviculturist IRR Team	
9	Monitor Management Indicator Species populations and habitat	Permanent point surveys, project surveys, trout surveys, game harvest reports, CISC, habitat surveys NEPA documents	Sample points and streams, ask NCWRC, query CISC, collate reports	Annually	Moderate	Moderate	Forest Botanist, Forest Wildlife Biologist, Forest Fisheries Biologist	

MONITORING TASK NO	MONITORING QUESTION	Monitoring Item	Method of Collection	Duration/Frequency	Precision	Reliability	Responsibility	Cost
10	Evaluate MIS population trends and habitat conditions	Review monitoring information collected for Task 11		Annually	Moderate	Moderate	Forest Botanist Forest Wildlife Biologist, Forest Fisheries Biologist	
11	Determine relationships between populations, habitat conditions, and management activities	Literature review, review of research results		As new information becomes available			Forest Botanist, Forest Wildlife Biologist, Forest Fisheries Biologist	
12	Is dispersion of early successional habitat within standards	CISC, area evaluation form NEPA documents	Sample CISC, Sample landscape areas	Annually	High	High	Monitoring Team, IRR Team, District Monitoring Contacts	
13	Are directions and standards being met for managing forest interior areas?	Documentation on maps, and in CISC, Field inspection, Planning records	Ask District Planner, Biologist, or ID Team Leader	Annually	High	High	Monitoring Team, District Monitoring Contacts IRR Team	
14	Are blocks of forest without internal edge of more benefit than forest with internal edge?	Review of literature		As new information becomes available	Moderate	Moderate	Forest Wildlife Biologists	
15	Are directions and standards being met for designating future old growth areas?	Documentation on maps, and in CISC, Field inspection, Planning records	Ask District Planner or ID Team Leader, query CISC	Annually	High	High	Monitoring Team, District Monitoring Contacts IRR Team	
16	Are old growth ecosystems being restored?	Field Review	Sample of patches,	When Plans are revised	Moderate	Moderate	IRR Team Forest ID Team	
17	Are directions and standards being met for riparian areas?	Project review, documentation on maps, field inspection NEPA documents	Sample riparian areas	Annually	High	High	Forest Hydrologist, Forest Fisheries Biologist IRR Team	

MONITORING TASK NO	MONITORING QUESTION	Monitoring Item	Method of Collection	Duration/ Frequency	Precision	Reliability	Responsibility	Cost
18	Management activities moving riparian areas toward their desired condition. Is coordination taking place?	Field review	Sample of areas	Annually	Moderate	High	IRR Team Monitoring contacts	
19	Management practices in compliance with the NC Forest Practices Guidelines Related to Water Quality	Field Review	Sample of Areas	Annually	High	High	Forest hydrologist	
20	Special Interest Area management direction is met and attributes and resources maintained	Project review, area evaluation form	Sample areas	When an SIA is within a landscape area being evaluated that year	Moderate	Moderate	District Ranger, IRR Team	
21	Wilderness management direction is met and attributes and resources maintained	Level of use, campsite and trail conditions, project review	Survey by Wilderness Rangers, RAs or technicians	Annually	High	High	Wilderness Program Manager IRR Team	
22	RNA's managed as undisturbed	Project review	Ask District Ranger	Every five years			RNA program manager IRR Team	
23	Are directions for T&E and sensitive species being met?	Project Review Conservation Strategy Review	Ask District Planner, Biologist, or ID Team Leader	Annually	High	High	Monitoring Team, Forest Biologists, IRR Team	
24	Are new minerals leases limited to those where the minerals activity can occur and still maintain other resource objectives?	New Leases/ NEPA documentation	Review new leases	At Plan Revision	Moderate	Moderate	Forest Geologist IRR Team	
25	How valid were the per unit cost and price assumptions used in developing the Forest	See Table D-2	See Table D-2	Annually	High	High	See Table D-2	
26	Are constructed roads designed according to standards appropriate for the planned use?	Project Review	Sample of roads	Annually	High	High	Engineering IRR Team	

MONITORING TASK NO	MONITORING QUESTION	Monitoring Item	Method of Collection	Duration/Frequency	Precision	Reliability	Responsibility	Cost
27	Are silvicultural treatments in compliance with the forest plan?	Annual Reports Field Review	District reporting Sample of projects	Annually	High	High	Forest Silviculturist IRR Team	
28	Are prescribed burns performed within the parameters of the prescribed burn plan?	Field review Evaluation form	Sample of projects, all forms	Annually	High	High	Fire Management Officer IRR Team	
29	What emerging issues need to be addressed to ensure the continued effectiveness of the Forest Plan?	As new issues are defined during plan implementation, new monitoring activities may need to be identified to address these issues. New monitoring activities addressing issues can be added to the Forest Monitoring Program by completing a new Monitoring Task Sheet and summarizing it in this table. Any updates and/or additions to this table will be identified in the Forest's Annual Monitoring and Evaluation Report.						
30	Are heritage resources being protected?	Field review NEPA Documents	Sample of sites	Annually	High	High	Forest Archeologist IRR TEAM	
31	Are prescribed burn objectives met?	Field review	Sample of projects samples	Monitoring schedule set in burn plan	Moderate	Moderate	Fire Management Officer IRR Team	
32	Are there significant changes in land productivity?	Changes in land use, changes in soil productivity	Plan Amendments, site surveys	Annually, if information has changed	Moderate	Moderate	Monitoring Team, Forest Soil Scientist IRR Team	
33	Have lands identified as not suitable for timber production become suitable?	Plan Amendments or Revisions	Review	Every 10 years, or as amendments are made	High	High	Forest ID Team	
34	What are the effects of national forest management on adjacent land, resources, and communities?	Employment records, County income records, news articles, letters	Review	Annually	Moderate	Moderate	Monitoring Team, Public Affairs Staff IRR Team	
35	How valid were the unit cost and price assumptions used in developing the forest plan?	See Table D-2	See Table D-2	Annually	High	High	Monitoring Team	

MONITORING TASK NO	MONITORING QUESTION	Monitoring Item	Method of Collection	Duration/Frequency	Precision	Reliability	Responsibility	Cost
36	Are insects diseases or noxious weeds increasing to damaging levels as a result of management activities?	Field sensing	Collection, traps, samples	Annually	High	High	Forest Health IRR Team	
37	What are research needs to support or improve national forest management?	Environmental Analysis	Ask rangers, specialists, planners	Annually	Moderate	Moderate	Monitoring Team Physiographic Core Team Representative IRR Team	
38	Are maximum size limits for openings being met and should they be continued?	Plan Amendment or Revision	Review for change	When Plan is revised or amended			Forest ID Team	

TABLE D-2. MONITORING PREDICTED ACTIVITIES, COSTS, AND OUTPUTS

Activity/Output/Cost	Unit of Measure	Plan Estimate	Responsibility	Source of Data
Recreation Developed Use	1000 RVD's*/year	1,227	Recreation	RIM
Recreation Dispersed Use	1000 RVD's*/year	3,219	Recreation	RIM
Trail Construction/Reconstruction	Miles/year	24	Recreation	MAR
Wilderness	Acres	81,780	Recreation	Forest Plan
Wildlife Habitat Improvement	Acres/year	2,180	Wildlife	MAR
Timber Allowable Sale Quantity	Million board feet/year	36.9	Timber	TSPIRS
Reforestation	Acres/year	7,340	Timber	MAR
Timber Stand Improvement	Acres/year	1,504	Timber	MAR
Water meeting water quality goals	Acres-foot/year	3,297,000	Water	MAR
Minerals Leases and Permits	# Operating Plans/year	277	Minerals	MAR
Youth Conservation Corps	Enrollee years/year	31	Human Resources	MAR
Older Workers	Enrollee years/year	172	Human Resources	MAR
Volunteers	Enrollee years/year	105	Human Resources	MAR
Job Corps	Enrollee years/year	440	Human Resources	MAR
Fire Protection Capability	Dollars/year	1,003,000 *	Fire	MAR
Fuel Breaks & Treatment	Acres/year	933	Fire	MAR
Land Purchase and Acquisition	Acres/year	800	Lands	MAR
Land Exchange	Acres/Year	400	Lands	MAR
Property Boundary Line Location	Miles/year	107	Lands	MAR
Soil and Water Improvement	Acres/year	39	Soil & Water	MAR
Road Construction/Reconstruction	Miles/year	31	Engineering	MAR
Annual Budget	M\$	9,460	B&P	Forest Budget Package

* Total for Nantahala, Pisgah, Croatan, and Uwharrie National Forests and NFSCNC Supervisor's Office

Table D-3. Monitoring MIS populations trends and amount and quality of habitat.

Over the next five years, a system of permanent points will be established across the forest representing all land type associations on Pisgah and Nantahala National Forests. These permanent points will be used to survey for the following plants and animals:

Breeding birds
(including cowbirds)
Salamanders
Aquatic invertebrates
Invasive exotic plants
Rich cove plants

The following species will be monitored bait station or game data:

Black bear
Eastern wild turkey
White-tail deer

Species and habitat components may be added or subtracted from this list as the system is established and feasibility questions are answered. Any changes to this list will be described in the Annual Monitoring and Evaluation Report.