

**APPENDIX G**  
**MONITORING SUMMARY TABLE**

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**APPENDIX G – MONITORING SUMMARY TABLE**

<b>Goal No.</b>	<b>Monitoring Question</b>	<b>Element</b>	<b>Method of Collection</b>	<b>Duration/ Frequency</b>	<b>Reporting Interval</b>	<b>Needed Precision</b>	<b>Needed Reliability</b>	<b>Responsibility</b>
1, 2, 3, 4, 5, 8, 12, 14, 15, 19, 21, 26, 31, 33, 44, 61, 75	1. Are rare communities being protected, maintained, and restored?	Trends in the conditions of each known rare community type.	Site visits on a sample basis to map and track locations, composition and condition of rare communities utilizing standard GIS coverage and plant and animal databases.	5 Year Intervals	Annual	Moderate	Moderate	Forest Ecologist or Botanist
		Acres and/or number of occurrences of rare communities treated to maintain or restore desired conditions	Track annual accomplishments with established activity tracking systems and compare with changing occurrences and conditions.	Annual	Annual	Moderate	High	Forest Ecologist or Botanist
1, 2, 3, 4, 6, 7, 9, 10, 11, 12, 13, 15, 20, 40, 41, 42, 58, 61, 72	2. Are landscape-level and stand-level composition and structure of major forest communities within desirable ranges of variability?	Status and trend in forest cover acreage by major forest and woodland community type and successional stage	Track changes through established activity tracking systems and compare with baseline.	Continuous	5 Years	Moderate	Moderate	Forest Silviculturist
		Status and trend in forest cover acreage by major forest and woodland community type and successional stage	Track changes through established activity tracking systems and compare with baseline.	Continuous	5 Years	Moderate	Moderate	Forest Silviculturist

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	[2. Are landscape-level and stand-level composition and structure of major forest communities within desirable ranges of variability?]	Acres burned (wildland and prescribed fire) by forest type, stand condition and season of burn compared to desired fire regimes	For prescribed fire: Pre- and post-burn documentation and vegetation inventories; For wildland fire, track changes through established activity tracking system.	Continuous	Annual	Moderate	Moderate	District and Forest Fire Planner
		Trends in hooded warbler occurrence in relationship to mature mesic deciduous forests	Breeding Bird Survey data correlated to GIS coverage of mesic deciduous acreage where dense understory and midstory has been established, identified in a habitat tracking system.	Annual	5 Years	Moderate	Moderate	Forest Biologist
		Trends in red-cockaded woodpecker populations in relationship to mature pine forests	Population monitorings as set forth in the RCW Recovery Plan.	Annual	Annual	High	High	Forest Biologist
		Trends in field sparrow occurrence in relationship to woodlands, savannas, and grasslands	Breeding Bird Survey data for the species correlated to GIS coverage of woodland, savannas and grasslands established, identified in a habitat tracking system.	Annual	5 Years	Moderate	Moderate	Forest Biologist

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1, 2, 3, 4, 5, 6, 7, 9, 13, 15, 16, 20	3. Are key successional stage habitats being provided?	Trends in the abundance and condition of high-elevation early-successional habitats	GIS coverage correlated with vegetation database(s) compared to baseline	Continuous	Annual	Moderate	Moderate	Forest Silviculturist
		Trends in the abundance and condition of high-elevation early-successional habitats	GIS coverage correlated with vegetation database(s) compared to baseline	Continuous	Annual	Moderate	Moderate	Forest Silviculturist
		Trends in prairie warbler occurrence in relationship to the to early successional habitat	Breeding Bird Survey data for the species correlated to GIS coverage of early successional habitat identified in vegetation database(s)	Annual	3 Years	Moderate	Moderate	Forest Biologist
		Trends in chestnut-sided warbler occurrence in relationship to high elevation early-successional habitat.	Breeding Bird Survey data for the species correlated to GIS coverage of high-elevation, early-successional habitat identified in vegetation database(s)	Annual	3 Years	Moderate	Moderate	Forest Biologist
		Trends in Acadian flycatcher occurrence in relationship to mature riparian forests.	Breeding Bird Survey data for the species correlated to GIS coverage of mature riparian forest identified in vegetation database(s)	Annual	3 Years	Moderate	Moderate	Forest Biologist

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	[3. Are key successional stage habitats being provided?]	Trends in ovenbird occurrence in relationship to mountain forest interior communities	Breeding Bird Survey data for the species correlated to GIS coverage of forest interior habitat identified in vegetation database(s)	Annual	3 Years	Moderate	Moderate	Forest Biologist
		Trends in wood thrush occurrence in relationship to Piedmont forest interior communities.	Breeding Bird Survey data for the species correlated to GIS coverage of forest interior habitat identified in vegetation database(s)	Annual	3 Years	Moderate	Moderate	Forest Biologist
		Trends in scarlet tanager occurrence in relationship to upland oak communities.	Breeding Bird Survey data for the species correlated to GIS coverage of upland oak habitat identified in vegetation database(s)	Annual	3 Years	Moderate	Moderate	Forest Biologist
		Trends in Swainson's warbler occurrence in relationship to Piedmont riparian habitat, canebrakes and thickets	Breeding Bird Survey data for the species correlated to GIS coverage of these habitats identified in vegetation database(s)	Annual	3 Years	Moderate	Moderate	Forest Biologist
		Trends in pine warbler occurrence in relationship to pine and pine-oak forests.	Breeding Bird Survey data for the species correlated to GIS coverage of pine and pine-oak habitat identified in vegetation database(s).	Annual	3 Years	Moderate	Moderate	Forest Biologist

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		Trends in acres of wildlife openings.	GIS coverage & vegetation database(s)	Continuous	Annual	Moderate	Moderate	Forest Biologist
		Trends in acres of other permanent openings (pasture, ROW, etc.) and acres of maintenance activity implemented.	GIS coverage & vegetation database(s)	Annually	Annual	Moderate	Moderate	Special Use Coordinator
		Trend in the abundance and distribution of landscapes important for forest interior birds	Remote sensing, vegetation database(s)	5 years	5 years	Moderate	Moderate	Forest Biologist
		Trends in acreage of existing and potential old growth by forest community class	GIS coverage & vegetation database(s)	5 years	5 years	Moderate	Moderate	Forest Silviculturist
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 20, 21	4. How well are key terrestrial habitat attributes being provided?	Trends in hard mast production capability	Estimated mast production capability of oak forest community types identified in vegetation database(s)	Continuous	Annual	Moderate	Moderate	Forest Silviculturist
		Trends in pileated woodpecker occurrence as an indicator of snag abundance	Breeding Bird Survey occurrence trends for the pileated woodpeckers, snag abundance in FIA data	Annual	3 Years	Low	Low	Forest Biologist

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		Acres of vegetation management implemented in riparian areas by activity type	Track changes through vegetation database(s) correlated with GIS coverages and compare with baseline.	Continuous	Annual	Moderate	Moderate	Forest Silviculturist
4, 11, 12, 15, 16, 18, 22, 23, 25, 26, 46, 72	5. What is the status and trend in aquatic habitat conditions in relationship to aquatic communities?	Conditions and trends in the overall health of streams	Results of systematic stream fish community inventories, aquatic macro-invertebrate population surveys and/or rapid biological assessment	Selected streams are examined annually	As Available	Moderate	Moderate	S.O. Fisheries Biologist/Hydrologist
		Trends in water quality parameters and physical habitat conditions in relationship to aquatic communities	Sample water quality parameters, stream stability, streambed structure and large woody debris as appropriate during systematic stream fish community inventories.	Selected streams are examined annually	Annual	Moderate	Moderate	S.O. Fisheries Biologist/Hydrologist
39, 40, 41, 42, 43	6. What are status and trends of forest health threats on the forest?	Conditions and trends of forest fuels	Modeling of fuel loading	Continuous	Annual	Low to High	Low to High	District FMO & Forest FMO
		Hazardous fuels treated through wildland fire use, prescribed fire, and mechanical treatment	Summarize acres of treatment utilizing applicable database(s).	Annual	Annual	Moderate	High	District FMO & Forest FMO

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	[6. What are status and trends of forest health threats on the forest?]	Trends in the amount of air pollutants and their effects on forest vegetation, particularly ozone susceptible species	Ozone bio-monitoring surveys, utilizing "Forest Health Monitoring" protocols. Air quality monitoring data from sites on or near the Forest, especially acid deposition and ozone.	Annual surveys as part of "Forest Health Monitoring" program	Annual	Moderate	Moderate	Forest Health Monitoring program.
		Compliance with NAAQS air particulate emissions from NF lands [36 CFR 219.27(a)(12)]	Sample emissions from NF lands for compliance with NAAQS, with emphasis on PM2.5 emissions	Periodically	Annual	Moderate	Moderate	Forest FMO and Zone Air Specialist
		Trends in native insect and disease effects [36 CFR 219(k)(5)(iv), 36 CFR 219.20(b)]	Forest Health Protection Reports. Track Forest Health Monitoring results to identify emerging concerns.	As detected	Annual	Moderate	Moderate	Forest Silviculturist and Forest Health Field Unit
		Trends in the number of occurrences and/or acreage of selected non-native species? [36 CFR 219(k)(5)(iv), 36 CFR 219.20(b)]	Presence or absence of non-native invasive plants. Sample for specific non-native species in anticipation of their occurrence and during infestations. Track Forest Health Monitoring results to identify emerging concerns.	As needed	Annual	Moderate	Moderate	Forest Ecologist, Forest Silviculturist and Forest Health Field Unit



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		Trends in forest composition and condition that have been associated with epidemic insects and diseases	Hazard rating reports	Annual	Annual	Moderate	Moderate	Forest Silviculturist and Forest Health Field Unit
		Effectiveness of treatments to eliminate or control invasive non-native species?	Post control treatment sample data collection	Annually or at conclusion I&DC project as needed	Annual	Moderate	Moderate	Forest Silviculturist and Forest Health Field Unit
1, 2, 3, 4, 7, 8, 12, 13, 15, 16, 17, 18, 19, 22, 23, 26, 44, 45, 51, 72	7. What are the status and trends of federally-listed species and species with viability concerns on the forest?	Population trends in red-cockaded woodpecker as an indicator of effectiveness of management on recovery of the species [MIS - 36 CFR 219.19(a)(6)] 2	7.1	Follow recovery plan and RCW Handbook guidance	Seasonal	Annual	High	High
		Population trends in smooth coneflower as an indicator of effectiveness of management on recovery of the species [MIS - 36 CFR 219.19(a)(6)] 3	7.2	Individual site surveys	Seasonal	Annual	High	High
		Status and trends in selected birds and their associated habitats	Breeding Bird Survey data for the species correlated to GIS coverage of associated habitats	Annual	Annual	Moderate	High	Forest Biologist

Goal No.	Monitoring Question	Element	Method of Collection	Duration/Frequency	Reporting Interval	Needed Precision	Needed Reliability	Responsibility
	[7. What are the status and trends of federally-listed species and species with viability concerns on the forest?]	Status and trends of cerulean warbler [EO 13186]	Cerulean Survey data for the species correlated to GIS coverage of associated habitats	Annual	Annual	Moderate	High	Forest Biologist
		Status and trends of golden-winged warbler [EO 13186]	Golden-winged Survey data for the species correlated to GIS coverage of associated habitats	Annual	Annual	Moderate	High	Forest Biologist
		Status and trends of selected aquatic biota	Stream biota inventories on selected streams	Annual	Annual	Moderate	High	S.O. Fisheries Biologist
		Status and trends of selected bat communities	Mist netting, Anabat, and/or cave counts	Annual	Annual	Moderate	High	Forest Biologist
		Status and trends of selected plant communities	Plant surveys and element occurrence monitoring	Annual	Annual	Moderate	High	Forest Ecologist
		Status and trends of other federally listed and viability concern species.	Focused inventory and monitoring on priority species as determined by periodic reviews	As needed	Annual	As needed	As needed	Forest Biologist, Aquatic Biologist or Ecologist
		Status and trends in selected birds and their associated habitats	Breeding Bird Survey data for the species correlated to GIS coverage of associated habitats	Annual	Annual	Moderate	High	Forest Biologist

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1, 2, 3, 4, 6, 7, 16, 26, 72	8. What are the trends for demand species and their use?	Trends in harvest data for white-tailed deer and black bear in relationship to habitat improvement activities for those animals? [MIS - 36 CFR 219.19(a)(6)]	Collect data from Georgia Department of Natural Resources related to annual accomplishments for habitat improvement tracked with tracking systems	Annual	Annual	Moderate	Moderate	Forest Biologist
		Trends in the number of permits issued and harvest levels for selected special forest products	Compile reports from records of permits issued	Annual	Annual	Moderate	Moderate	Forest Ecologists and Forest Products Staff
		Fish stocking levels by type and location	Collect stocking records from Georgia Department of Natural Resources	Annual	Annual	Moderate	High	S.O. Fisheries Biologist
14, 22, 23, 29, 30, 31, 32, 35, 38, 46, 47, 65, 66, 77, 80	9. Are high quality, nature-based recreation experiences being provided and what are the trends?	Results and trends in user satisfaction ratings [36 CFR 219.21(a)]	Analysis of standard recreation customer satisfaction data, local customer satisfaction reports	5 years (trend) - annual update	5 years	Low	High - Moderate	SO-Recreation Staff
		Backlog of facility and trail maintenance needs and trends	Analysis of Deferred Maintenance Report and reporting of change in backlog.	Annually	Annual	Moderate	Moderate	SO-Recreation Staff
		Trends in health and safety associated with recreation programs	Report on meeting critical standards for developed facilities, trails and GFAs.	Annually	Annual	High	Moderate	SO - Recreation Staff

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		Changes in the amount and kinds of opportunities provided	Infrastructure database(s). Track changes that result from management activities	Annually	Annual	Moderate	Moderate	SO - Recreation Staff
		Changes in accessibility of developed sites and facilities	Summary report of construction meeting accessibility guidelines.	Annually	Annual	Moderate	High	District/SO-Recreation Staff
		User impacts, conflicts and effects within the A.T. Corridor	Analysis of NVUM data, local Customer Satisfaction survey tools, GIS mapping of AT shelter sites, trailhead registration data.	TBD	5 Year Intervals	Moderate	Moderate	Forest Recreation Staff
7, 22, 24, 31, 34, 35, 44, 48, 49	10. What are the status and trends of recreation use impacts on the environment?	Trends in illegal or unauthorized recreational uses observed and the effects of these uses.	Law enforcement reports and integrated resource reviews.	Annually	Annual	High - Low depending on the type, intensity and frequency of activity	High	Recreation Staff SO
		Recreation activities contribution to the degradation of terrestrial, aquatic, rare or riparian areas or adversely affecting water quality	Recreation site condition surveys or other condition surveys on a sample basis	Annually	Annual	Moderate	Moderate	Recreation Staff SO and natural resource scientists

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		Continued validity of Plan decisions regarding OHV use designations and determining whether an area is open or closed to OHV use.	Review past year's change in designation of specific OHV routes and areas	Annually	Annual	Moderate	Moderate	Recreation Staff SO
31, 34, 35, 36, 37, 38	11. What is the status and trend of wilderness character?	Trends in air quality related values in Class 1 Wilderness areas [36 CFR 219.27(a)(12)]	Water quality sampling for acid dep.; vegetation sampling for ozone & long-term trends	Ranges from synoptic to set time periods for short & long-term monitoring	Annual	High - Moderate	High - Moderately High	Zone Air Resource Management Specialists
		Status and trend of visibility in Class 1 areas and the relationship to landscape visibility across the Forest	IMPROVE or other national aerosol monitoring network.	Samples taken every 3 days for a 24 hr. time period	Annual	Very high	Very High To High	National data analysis & interpretation contracts.
		Is wilderness visitor use within limits that do not impair the values for which the wilderness was established? [36 CFR 219.18(a)]	Visitor satisfaction results and wilderness trailhead registration data.	Every 5 years	Every 5 years	Moderate	High	SO Recreation
		Trends in fire regimes and effects on fire-dependent communities in Wilderness	Annual summary report of number of Wildland Fire Use Fires and acres, wildland fires and number of management ignited fires and season of burn.	Continuous	Annual	Moderate	High	SO

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22, 23, 25, 26, 46	12. What are the status and trend of Wild and Scenic River conditions?	Are the Outstandingly Remarkable Values being protected?	Program review to track number and types of projects implemented along the river corridor.	Annually	3 Years	Moderate	Moderate	SO
29, 30, 31	13. Are the scenery and recreation settings changing and why?	Amount of National Forest land that meet or exceed established scenic quality objectives and changes over time [36 CFR 219.27(c)(6), 36 CFR 219.27(d)(1)]	Track changes that result from management activities.	Annually	Annual	Low	Moderate	SO-Recreation Staff (Forest Landscape Architect)
77	14. Are heritage sites being protected?	Heritage sites are identified for protection? [36 CFR 219.24(a)(4)]	Summary of heritage inventories and surveys pursuant to 106 for all ground disturbing projects.	Annually	Annual	Moderate	High	Forest and District Archeologist
		Effectiveness of heritage protection measures. [36 CFR 219.24(a)(4)]	Field condition assessment on sample of sites eligible or listed in National Register.	Annually	Annual	High	High	Forest and District Archeologist
4, 11, 16, 18, 22, 23, 25, 26, 34, 39, 46, 48, 49, 50	15. Are watersheds maintained (and where necessary restored) to provide resilient and stable conditions to support the	Status and trends of impaired streams	Georgia 305b/303d report, US EPA	2 Years	Annual	Moderate	High	Forest Hydrologist

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	quality and quantity of water necessary to protect ecological functions and support intended beneficial uses?							
		Application of Forest Standards to protect and maintain soil and water resources? [36 CFR 219.27(a)(4), 36 CFR 219.12(k)(2)]	Integrated resource reviews, project implementation reports, Georgia GFC BMP audits.	Continuous	Annual	Moderate	High	Forest hydrologist or soil scientist
		Effectiveness of Forest Standards in minimizing non-point source pollution	Integrated resource reviews. Results of systematic stream fish community inventories, aquatic macro-invertebrate population surveys and/or rapid biological assessment; Sample water quality parameters, stream stability, streambed structure and large woody debris as appropriate during systematic stream fish community inventories.	Periodic or at random	Annual	Moderate	High	Forest hydrologist or soil scientist

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4, 11, 12, 22, 23, 25, 26, 34, 46, 48, 49	16. What are the conditions and trends of riparian area, wetland and floodplain functions and values?	Condition of soil and ground cover in riparian areas	Integrated resource reviews, systematic sample of selected areas.	Annually	Annual	Moderate	Moderate	Forest soil scientist
		Forest Plan standards are being applied in riparian areas. [36 CFR 219.27(a)(4), 36 CFR 219.12(k)(2)]	Integrated resource reviews; review of project documents; field monitoring, according to established protocols, of BMP application in riparian areas of project sites.	Annually	Annual	Moderate	High	Forest hydrologist or soil scientist
		Effects on riparian values, soil and water quality, and & streambank stability [36 CFR 219.27(a)(4), 36 CFR 219.27(b)(6), 36 CFR 219.27(c)(6)]	Integrated resource reviews, systematic sample of selected areas (see individual task sheets).	Annually	Annual	Moderate	Moderate	Forest hydrologist or soil scientist
		Projects in 100-year floodplains comply with E.O. 11988.	Review of applicable project planning documents	Annually	Annual	Moderate	High	Forest hydrologist or soil scientist
		Wetland maintenance or mitigation during project planning and implementation comply with E.O. 11990	Review of applicable project planning documents	Annually	Annual	Moderate	High	Forest hydrologist or soil scientist



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4, 27, 47, 54, 55, 56, 65, 70, 73	17. How do actual outputs and services compare with projected?	Trends in Forest products production. [36 CFR 219.27 (c)(2)]	Track trends from annual accomplishment reports and compare with Forest Plan projections.	Annually	Annual	Moderate	High	Forest Products Staff
		Adequacy of constructed roads for the planned uses and revegetation following completion of use. [36 CFR 219.27 a (10), 36 CFR 219.27 b (7)]	Review of planning documents, contract inspection reports, integrated resource reviews.	Annually	Annual	Moderate	High	Engineering Staff
		Adequacy of designated transportation and utility corridors. [36 CFR 219.27 a (9)]	Review of relevant special use applications	As needed or every 5 years	5 years	Moderate	Moderate	Engineering Staff
		Estimated versus actual costs of plan implementation [36 CFR 219.12(k)3]	Compare trends in operating budgets to the estimated costs of implementing the Forest Plan.	Annually	Annual	Moderate	High	Forest Planning Staff
		Trends in Special Uses	Summary Report from special uses database(s)	Annually	Annual	Moderate	High	Special Uses Staff
65, 66	18. Are silvicultural requirements of the Forest Plan being met?	Are lands being adequately restocked within 5 years of regeneration treatments? [36 CFR 219.27(c)(3)]	Survival and stocking reports	Annually	Annual	Moderate	High	Forest Silviculturist

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		Application of veg. mgmt. requirements and progress toward achievement of DFC for vegetation [36 CFR 219.15, 36 CFR 219.27]	Review project planning documents, project implementation reports, veg. changes in database(s) compared with Plan veg. objectives.	Annually	Annual	Moderate	High	Forest Planning Staff
		Suitability of lands identified as not suitable for timber production. [36 CFR 219.14 (a)(d), 36 CFR 219.27(c)(1)]	Review suitability using computer model	5 Years	5 Years	Moderate	High	Forest Planning Staff
		Harvest unit sizes within the allowable limits. [36 CFR 219.12(k)5(iii)]	Review harvest reports in database(s)	Annually	Annual	Moderate	Moderate	Forest Products Staff
		Appropriateness of maximum harvest unit size limits. [36 CFR 219.27(d)]	Interdisciplinary review	5 Years	5 Years	Moderate	Moderate	Forest Planning Staff
		Compliance of silvicultural practices with Forest Plans? [36 CFR 219.27(c)]	Review project planning documents, project implementation reports, Integrated resource reviews of sample projects.	Annually	Annual	Moderate	High	Forest Planning Staff

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		Appropriateness of harvest methods used on the Forest. [36 CFR 219.27]	Integrated resource reviews of sample projects, survival & stocking exams.	Annually	Annual	Moderate	High	Forest Planning Staff
All objectives and standards	19. Are Forest Plan objectives and standards being applied and accomplishing their intended purpose?	Evaluate how diversity is affected by planned activities and whether expected results are being achieved. [36 CFR 219.26, 36 CFR 219.27 g, 36 CFR 219.27 (a)(5)]	Compile summary report across appropriate monitoring items.	Annually	Annual	Moderate	High	Forest Planning Staff
		Determine whether standards, guidelines, and management requirements are being met and are effective in achieving expected results. [36 CFR 219.27 (a)(6)]	Compile summary report of implementation and effectiveness monitoring across tasks.	Annually	Annual	Moderate	High	Forest Planning Staff
		Determine when changes such as Government Performance Results Act (GPRA), policies, or other direction, would have significant effects on Forest Plans. [36 CFR 219.10(g)]	Interdisciplinary review of Forest Plan in relation to agency policy and direction.	As needed	Annual	Moderate	Moderate	Forest Planning Staff

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		Determine if planning information or physical conditions have changed significantly. [36 CFR 219.10(g)]	Interdisciplinary review of Forest Plan for needed changes as new information becomes available and/or significant changes in conditions are observed.	As needed	Annual	Moderate	Moderate	Forest Planning Staff
		Identify changes in ability of the planning area to supply goods and services in response to society's demands. [36 CFR 219.10(g), 36 CFR 219.21(a)(2)]	Interdisciplinary review of Forest Plan for needed changes as new information becomes available and/or significant changes in conditions are observed.	As needed	Annual	Moderate	Moderate	Forest Planning Staff