



US Forest Service Briefing Paper

Date: September 21, 2009

Topic: Servicewide Agreement between Forest Inventory and Analysis and the National Forest System

Issue: Three Memoranda of Understanding (MOUs) between the Forest Inventory and Analysis (FIA) Program and National Forest System (NFS) expire on September 30, 2009. They have been merged into a single new Servicewide Agreement (SA), which is now ready for approval.

Background: The Forest Service Strategic Plan, Planning Rule, and other policy documents all make reference to the integration of science and management and collaboration with our varied partners. A key aspect of that integration is the very foundation for many of our management decisions, our basic resource information. Accurate and scientifically credible resource data create an adequate decision making foundation upon which to base our collaborative planning efforts.

The SA merges three previous MOUs and ensures implementation of a national vegetation inventory program in the most efficient manner possible to meet our collective needs at the mid- to national scale. The purpose of this SA is to establish a general framework for cooperation between the above organizations in implementation on NFS lands of the FIA program and use of data collected.

Staff for the Deputies of Research and Development (R&D) and NFS have drafted a Servicewide Agreement (SA) outlining the roles and responsibilities of each Deputy Area with respect to strategic vegetation inventory for regional and national planning and reporting. This document has been reviewed by all relevant parties including regional staffs and is now ready for signature by the Deputy Chiefs for NFS and R&D as well as Directors of R&D Quantitative Sciences and NFS Ecosystem Management Coordination, Forest Management, and Wilderness and Wild and Scenic Rivers.

Key Points: Key elements of this agreement further the following objectives

1. Defines the core regional and national FIA vegetation inventory program as outlined in the FIA Strategic Plan approved by Congress.
2. Defines roles and responsibilities of each Deputy area in assuring the most efficient implementation of a consistent, scientifically sound vegetation inventory and monitoring program for the Agency's mid- and national scale needs.
3. Establishes Deputy Area responsibilities in forest vegetation inventory and monitoring activities for mid- and national scale planning and reporting.
4. Defines key measures to assure that each Deputy Area is redeeming its respective obligations toward achieving the goal of efficient implementation of a consistent, scientifically sound vegetation inventory and monitoring program for the Agency.

This agreement represents a continuation of R&D and NFS collaboration to provide reliable, consistent data on forested ecosystems without regard to ownership boundaries and strengthens our ability to integrate science and management.

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**SERVICEWIDE AGREEMENT
09-SA-FIA01**

between

FOREST INVENTORY AND ANALYSIS
U.S. Forest Service, Research and Development

and

NATIONAL FOREST SYSTEM
U.S. Forest Service

This Servicewide Agreement (SA) is entered into by and between the U.S. Forest Service (FS) Research and Development FOREST INVENTORY AND ANALYSIS (FIA) Program and NATIONAL FOREST SYSTEM (NFS) including ECOSYSTEM MANAGEMENT COORDINATION (EMC), WILDERNESS AND WILD AND SCENIC RIVERS (WWSR) and FOREST MANAGEMENT (FM) staffs.

Enclosures 1 (Terms used in this SA) and 2 (FIA Organizational Structure) are considered to be a part of this SA.

I. PURPOSE

The purpose of this SA is to establish a general framework for cooperation between the above organizations in implementation on NFS lands of the FIA program of the US FS and use of data collected. Such cooperation is considered to be in the best interest of the U.S. Government and is consistent with the direction contained in the Wilderness Act of 1964 (78 Stat 890), the Resources Planning Act of 1974 (88 Stat 476), the National Forest Management Act of 1976 (90 Stat 2949) and the Forest and Rangeland Renewable Resources Research Act of 1978 (92 Stat 353, as amended).

This SA acknowledges the need within the FS to establish and maintain basic information on the extent and condition of all of the Nation's forested ecosystems including wilderness. Reliable strategic and mid-level inventory data is basic to the development of land and resource management assessments and subsequent monitoring, management and protection plans.

This SA also acknowledges that NFS managers will be allowed access to all FIA data collected on NFS lands and in many instances access to exact plot coordinates on NFS land which are essential to not only the utilization of FIA data to support decision making and planning activities, but essential to the integration and use of FIA data to minimize overall inventory and monitoring costs within the Agency. The plot coordinates, however, are subject to the disclosure provisions of Section 1770(d) of the Food Security Act of 1985 (99 Stat 1535) as noted in Section IV of this SA.

This SA is limited in scope to issues pertaining to the implementation of the complete core FIA program on all NFS lands. Nothing in this SA is intended to otherwise limit what either NFS or FIA chooses to do beyond this scope.

II. STATEMENT OF MUTUAL BENEFITS AND INTERESTS

Since the FS has dual responsibilities to manage national forests and grasslands and provide strategic information about all forested areas regardless of ownership, it is recognized that it is in the best interest of the FS and our customers that FIA and NFS collaborate to ensure the coverage of NFS lands by the core FIA program is consistent with FIA inventory coverage of lands on all other ownerships.

It is recognized that the NFS, in discharging its obligations in the management of lands under its jurisdiction, has a need for information on natural resources of which FIA provides information to help satisfy these needs. Included in this information need would be the nature, distribution, condition and trend of vegetation and related attributes.

It is recognized that NFS may elect to leverage the value of FIA inventory products by coordinating other inventories (e.g. inventories designed and implemented for broad scale assessments, land management planning, or other objectives associated with managing resources) conducted on NFS lands with FIA sampling design, methods and schedules. As the FS increases coordination across inventory and monitoring programs, it will be increasingly important to sustain close collaboration between NFS and FIA for related inventory and monitoring activities.

It is recognized that the FIA program, in discharging its inventory and analysis obligations, will conduct an integrated, consistent, strategic-level forest inventory on all forest lands of the United States, including all NFS lands. It is recognized that FIA has the lead responsibility for implementing a complete core FIA program, in cooperation with key partners including NFS, State and Private Forestry, and State forestry agencies, as described in the Forest Inventory and Analysis Strategic Plan (FS-865), hereafter referred to as the FIA Strategic Plan.

It is recognized that the FIA program includes a core program that is implemented consistently across all forested lands including national forests and grasslands. "Core program" refers to a complete set of procedures regarding program management, planning, sample design, data collection standards, definitions, protocols, quality assurance, data editing, compilation, analysis, reporting, and data publication activities which will be done in the same fashion across all ownerships. The core program consists of national core program elements (common across all FIA activities nationwide) and regional core program elements (common to all FIA activities within a given FIA region). National core program elements will be decided by the FIA National Management Team, and regional core program elements will be decided by each regional FIA management team. National and regional management teams will include representatives from FIA and NFS.

It is recognized that FIA customers (including State Foresters and their organizations; consultants, private corporate enterprises, and environmental organizations; government and academic research institutions; Federal policymakers including Congress; and other customers) need a core strategic inventory program which will provide consistent information to support analyses which span administrative boundaries.

III. THE FOREST INVENTORY AND ANALYSIS PROGRAM SHALL:

1. Utilize an executive, management, and technical decisionmaking organization (see Enclosure 2), which includes representation from NFS line officers, as defined in the FIA Strategic Plan.
2. Include NFS representatives in all working organizational levels of the FIA program. These organizational levels are further described in Enclosure 2 "FIA Organization Structure" and include:
 - a. One NFS WO Staff Director and two Regional Foresters on the FIA Executive Team.
 - b. At least two NFS representatives on the FIA National Management Team.
 - c. At least one NFS representative on each of the technical teams ("Bands") chartered by the FIA Management Team.
 - d. At least two NFS representatives, with both WO and Regional representation, attend National FIA User Group Meetings, when held.
 - e. At least one Regional representative from each included NFS region on each of the Regional FIA Management Teams.
3. Keep Regional FIA Coordinators informed in advance about all plans (dates, approximate locations) for conducting fieldwork within each NFS region.
4. Access and operations may be restricted, but not prohibited, in some areas as outlined in travel plans, by legislation, or other management direction. Operations will be conducted consistent with these closures or restrictions. Requests for exceptions to restrictions, including access behind locked gates will be submitted as part of the general notice to Forest Supervisors and District Rangers. The general policy is that FIA personnel,

including cooperators (e.g. state forestry agency, university or other Federal agencies) under the official direction of the FIA program, will have the same privileges and restrictions on access and operations as those placed on forest staff for the execution of official duties.

5. Be flexible in enhancing the core FIA program to better meet NFS needs, e.g. through the collection of additional data attributes and/or plots on NFS lands. Such enhancements may be instituted through regional management teams or may be negotiated along with appropriate funding instruments required to fulfill work beyond the scope of the core FIA program or agreements made through regional management teams. All enhancements of the core FIA program shall be implemented at cooperator expense and coordinated with the FIA program.
6. Implement the complete National and Regional Core FIA Program on each National Forest System unit consistent with all other forested lands within the same state. This includes phase 1, 2, and 3 activities as well as all other surveys normally included in the state as part of the complete core FIA program. In cases where a single NFS region is part of more than one FIA region, the respective FIA Regional Managers will coordinate with the respective NFS Regional FIA Coordinator to ensure that the regional core FIA program elements additional NFS attributes needed by each NFS region are collected on all lands within each NFS region consistent with financial caveats in item 5 above. Consistency in elements are important for Forests that straddle FIA Regions, therefore Regional Core FIA attributes will be collected for the entire Forest consistent with the regional core FIA program elements and additional NFS attributes for the NFS Region.
7. Edit, compile, analyze, and report on data from NFS lands in combination with data from other lands within the same state as each national forest or grassland on a 5-year reporting cycle as stated in the FIA Strategic Plan.
8. Provide access to all public FIA data on NFS lands (and, if desired, other lands) to NFS staff and external customers. NFS and FIA will collaborate to ensure that all field collected data are loaded into the appropriate Natural Resource Information System (NRIS) database(s) or other mutually agreed on information management systems within 1 year of collection. CAVEAT: Use of exact NFS plot coordinates by parties outside of NFS must go through FIA access procedures for non-NFS users. Further, FIA will
 - a. provide the exact location (coordinates) of the FIA plots on NFS lands within each NFS Region to the respective Regional FIA Coordinator or designated representatives at national and regional technical centers consistent with all other FIA plot data residing in NRIS databases;
 - b. provide assistance to NFS users to collaborate on the use of plot location information for private and other lands that would include derived layers (but not exact coordinates) to support NFS analysis, assessment, planning and inventory objectives;
 - c. work closely with NFS to track changes to data stored in NRIS and FIA databases in order to ensure modifications to data are recorded, an audit trail is sustained, and suitable metadata are associated with data if and when changes are made and
 - d. review requests for site visits of FIA plot locations only for purposes and under conditions described in this agreement.
9. Work with those making internal FS information requests such as Forest and Rangeland Renewable Resources Planning Act database compilation, criteria and indicators for sustainability, Government Performance and Results Act (GPRA) reporting, and other national and international reporting demands that are most appropriately met by strategic level information defined in the complete core FIA program.
10. As appropriate, give NFS credit in all reports, publications, and presentations for their collaboration with the FIA program.
11. Assume responsibility for implementing the core FIA program on NFS lands.

IV. THE NATIONAL FOREST SYSTEM SHALL:

1. Appoint representatives to each of the FIA organizational levels described above in Section III(2) and ensure that appropriate funding or other resources are available for its representatives to participate on National and

Regional committees or to attend National and Regional meetings. Representatives will be responsible for networking within their level of the NFS organization in order to fairly represent NFS interests to FIA decisionmakers, and to disseminate information about FIA throughout their respective level of NFS.

2. Provide resources necessary to implement NFS-initiated enhancements to the core FIA program on NFS lands. Costs for data collection, management and reporting that are not part of the national or regional core will be borne by the sponsoring unit through either cash, mutually agreeable in-kind contributions or other funding mechanisms. Unless other arrangements have been negotiated, data will be available in the NRIS database within 1 year of collection.
3. National Forest FIA coordinators will process requests for access exceptions promptly and notify FIA Regional Managers of concerns and possible access alternatives as soon as possible.
4. Provide technical review of reports and analyses of FIA data from NFS lands. If separate reports are developed for NFS lands, NFS will either be solely responsible or collaborate with FIA staff in the analysis and reporting.
5. Treat normal NFS management activities as blind to FIA plot locations, even those accidentally discovered, because change detection is a vital role for FIA plots. Maintain normal business operations/forest management activities without regard to any signing or monumentation on the FIA plot locations. For example, no road locations or cutting unit boundaries will be moved, no tree will be marked or unmarked for harvest, no treatment of exotic/invasive species and no other changes in treatment will result from any deliberate or accidental knowledge of a plot location.
6. Provide security and protection measures to NFS databases that include FIA exact plot location information and provide access only to authorized NFS personnel. NFS will not provide exact coordinate information to any non-NFS party without following FIA data security and consent procedures. These measures will include the name of the individual, dates of access, and purpose.
7. Not disclose the FIA plot locations to any other party, including requests under the Freedom of Information Act. This information is exempt by statute from disclosure under the provisions of the Freedom of Information Act (5 U.S.C. 552(b)(3)). The statute that specifically proscribes release of FIA sample locations is the Food Security Act of 1985 as amended (7 U.S.C. 2276(d)). Any act by a partner/cooperator and/or their assigns that violates any of the provisions of plot location access, use, and disclosure will be subject to penalties pursuant to the provisions of the Food Security Act.
8. For each NFS region, appoint a Regional FIA Coordinator to serve as the primary point of contact for coordination and communication between the FIA Regional Manager(s) and the regional NFS staffs. Also, for each national forest administrative unit in each region, appoint a National Forest FIA Coordinator to serve as the primary point of contact for coordination, and communication between the FIA Regional Manager, Regional FIA Coordinator, and all appropriate National Forest staff (District Rangers, Wilderness Managers, Law Enforcement, etc.).

V. IT IS MUTUALLY AGREED AND UNDERSTOOD BY AND BETWEEN THE PARTIES THAT:

1. Any expenditure of funds, human resources, equipment, supplies, facilities, training, public information, and expertise will be provided for under separate jointly developed agreements between FIA and NFS.
2. The standard FIA sample intensity provided by the Federal FIA budget consists of measuring 10 percent of phase 2 sample locations in every state per year in the western U.S. (Pacific Northwest FIA, Interior West FIA regions and west Texas and Oklahoma); 15 percent of the phase 2 sample locations in every state per year in the eastern U.S. (Northern and Southern FIA regions except west Texas and Oklahoma). Every 16th core FIA plot will be a base phase 3 sample location in each FIA region. Phases 2 and 3 will be implemented jointly. States, NFS regions, or other partners may, at their option, contribute resources to bring the program up to the full 20 percent per year measurement cycle described in the FIA Strategic Plan and/or collect additional data elements. Hawaii, interior Alaska, and Pacific and Caribbean Island territories will be treated as special cases, per Congressional direction, with programs designed to meet specific local needs.

3. Each regional FIA unit will assemble an FIA Regional Management Team to deal with regional-specific issues such as logistics, regional analyses, regional data collection needs, transition from former data systems to the current system, and other items of local interest. These teams will typically be comprised of FS, State Forestry agency staff and other Federal agencies engaged in the day-to-day implementation of the FIA Program at the state level. Each FIA Regional Management Team will include at least one representative from each of the NFS regions covered by the FIA unit, as listed below:

Northern FIA:	R-1, R-2, R-9	Interior West FIA:	R-1, R-2, R-3, R-4
Southern FIA:	R-8	Pacific Northwest FIA:	R-1, R-5, R-6, R-10

4. FIA Regional managers, Regional FIA Coordinators and NFS forest staff will collaborate to produce forest or sub-region level data summaries and analyses when requested. The timing of this work will be negotiated and agreed to in advance by both regional FIA and NFS staffs and forest officials; and, at a minimum, should include (1) annual standardized statistical summaries of FIA data for each forest from the most recent panel of data, and (2) a complete forest or appropriate level analytical report produced at intervals needed to support land management plan revisions and monitoring reports or other business needs.
5. Enhancements to the core program will be coordinated across FIA and NFS regions to provide for consistency in standards, protocols, classifications and data management to the extent needed for data analysis across administrative boundaries and effective maintenance of information systems.
6. Collaboratively establish a cohesive internet accessible suite of informational records (e.g. contact lists, manuals, reports, and data) in order to foster efficiency of communication and information exchange among FS programs and between the FS and partners.
7. Principle contacts for this SA will periodically conduct joint administrative and technical review of the operations affected by this agreement every 2 years, or as deemed necessary, throughout the duration of the agreement in order to evaluate the effectiveness of the SA and recommend adjustments of the agreement or operations of NFS and FIA units associated with the agreement.
8. All activities under this SA or any agreement(s) written hereunder will be in compliance with the Drug-Free Workplace Act of 1988 (Public Law 100-690, Title V, Subtitle D).
9. **NON-FUND OBLIGATING DOCUMENT.** This SA is neither a fiscal nor a funds obligation document. Any endeavor including work plans where there is to be reimbursement or contribution of funds between the parties to this instrument will be handled in accordance with applicable laws, regulations, and procedures including those for Government procurement and printing. Such endeavors and work plans shall be made in writing in a separate and independent agreement by representatives of the participating programs, authorized by appropriate statutory authority. This SA does not provide such authority. Specifically, this SA does not establish authority for noncompetitive award to the cooperator of any contract or other agreement. Any contract or agreement for training or other services must fully comply with all applicable requirements for competition.
10. **COMPLETION DATE.** This SA will be effective on the date of the last signature affixed hereto, and unless terminated sooner, will remain in full force until **October 1, 2015**, at which time it will expire or be renewed.
11. **MODIFICATIONS.** Changes within the scope of this SA shall be made by the issuance of a fully executed modification, in writing, by all participating program officials prior to any changes occurring.
12. **RESTRICTION FOR DELEGATES.** No member of, or delegate to, Congress shall be admitted to any share or part of this SA or any agreement(s) written hereunder or to any benefit to arise therefrom.
13. **PARTICIPATION IN SIMILAR ACTIVITIES.** This instrument in no way restricts the NFS and FIA organizations from participating in similar activities with other public or private agencies, organizations, and individuals.

- o Prior to initial entry (during a field season or inventory cycle) into a local national forest or wilderness area, local FIA personnel will contact the local NFS contact as appropriate in order to establish reasonable and effective working conditions. These may include the frequency and method of ongoing communications, clarification of how to determine the location and safety of FIA crews, emergency response procedures, any local or seasonal restrictions or hazards existing on the Forest, and any other considerations.
- o This agreement does not authorize any entry upon, nor activities within, any lands not under the jurisdiction of NFS, including private inholdings within NFS boundaries. Such activities must be coordinated and authorized prior to entry, through the respective agency or landowner.
- o Field personnel will be briefed and have access to this SA at all times when engaged in data collection activities on NFS land.

Safety

- o In order to ensure proper safety training for FIA field crews:
 - a. All FIA units will comply with the requirements in the Forest Service Safety and Health Manual, FSH-6709.11, and the Driver-Operator Guide, EM-7130-2, including thorough Job Hazard Analyses and associated training requirements.
 - b. NFS Regional FIA coordinators may review FIA Job Hazard Analyses and training requirements, in conjunction with NFS managers and safety officials, in order to ensure that all locally critical safety trainings are received.
 - c. In general, all applicable safety trainings required of local NFS field-going, non-fire employees will be required of FIA field crews working on that specific NFS unit.
- o In order to ensure the day-to-day safety of FIA field crews working on NFS lands:
 - a. All FIA units will comply with requirements in the Forest Service Safety and Health Handbook, FSH-6709.11, and the Driver-Operator Guide, EM-7130-2, including thorough Job Hazard Analyses and associated personnel tracking requirements and emergency evacuation procedures.
 - b. Each FIA unit will have crew tracking and status procedures (check in/check out), and local NFS managers will be provided information on contacting the appropriate people in FIA to quickly determine the location and status of FIA field crews working on NFS lands, if situations requiring crew contact and/or evacuation arise (see Communications). Local NFS managers may require coordination of FIA crew check in/check out with similar local NFS procedures.
 - c. FIA units will notify local NFS contacts as soon as possible in the event of incidents involving loss of contact with or emergency evacuation of FIA field crews working on NFS lands.

Marking Samples and Locations

Providing consistent and scientifically reliable resource data across all ownerships and classes of forest land in the United States is a hallmark of the Forest Inventory and Analysis research program. Measuring and recording methods on NFS lands must be sensitive to the character of these lands and leave as few signs of disturbance as possible. The following are general rules that will be enforced by FIA for field measurements on NFS lands.

- o **General Sample Plot Monumentation** It is important to be able to relocate plots, subplots, and trees measured during the inventory. Less visible markings on NFS lands are always appropriate. Detailed, concise sketches and notes will also make subsequent relocation easier. Special provisions for Congressionally designated wilderness areas withdrawn from timber production, known as "reserved" lands, are listed below (see Wilderness Sample Plot Monumentation). These provisions will also be applied to other "reserve" NFS lands designated by Congress and withdrawn from timber production as interpreted by the NFS Region and the Office of General Counsel when the interpretation is unclear. At the direction of NFS managers, these special provisions may be applied to plots in sensitive non-reserved areas. For plots in non-sensitive areas, outside wilderness, the following will apply:

- *Identifying tags/nails* – Marking tags/nails should be used minimally. Near residences, campgrounds, trails, roads, or other recreational or high-use areas, these will be placed so as to minimize visibility. They may be placed in alternate spots, painted a blending color, or wilderness provisions may be used.
- *Flagging* – Any flagging used to facilitate entry and exit from the plot area will be removed upon completion of the plot measurements.
- *Painting/Scribing* – Paint will only be applied minimally, and only by means of paint pen or crayon. No spray or brush paint will be applied to any surface in the field. Scribing will only be done using a bark scribe, and will not penetrate to the cambium layer. There will be no blazing of trees using hatchets.
- o **Wilderness Sample Plot Monumentation**
 - *Identifying tags/nails* – Tags/nails may only be used at the base of the tree in wilderness areas, and must be painted an approved color (generally green, brown or black). Tag color will be determined by the NFS Regional FIA Coordinator in consultation with appropriate staffs.
 - *Starting/Reference point trees* - Starting/Reference Point trees will not be painted or scribed. Instead, nail a tag with identifying marks to the base of the tree facing the direction of normal approach. Describe the starting point on the plot sheet notes and include reference landmarks.
 - *Subplot center* - Subplot centers are witnessed with a metal wire/rod or cedar stake in the ground as a marker which may not protrude from the ground more than 1 inch. Flagging may not be attached to the marker.
 - *Subplot witness trees* - Witness trees will not be painted or scribed. A tag with identifying marks on it will be nailed to the base of the tree facing subplot center.
 - *Subplot reference trees* - Reference trees will not be painted or scribed. A tag with the subplot number will be nailed to the base of each reference tree.
 - *Sample trees* - Sample trees will not be painted or scribed. Mark each sample tree 5.0" DBH and larger with a small nail or tag at ground level either facing subplot center or on the uphill side of the tree if there is a slope. If the sample tree is in view of a known path or trail, place the nail or tag away from the path or trail and note in the field tally. If only saplings are on the subplot mark a couple of them with nails at ground level and note which are so marked. Measure diameter at exactly 4.5 feet above the nail. If diameter needs to be taken at a different location, record the location above the nail to the nearest inch in the DBH high or low section.
- o **Boring trees** - Boring or drilling will be done only when absolutely necessary to estimate site, age, or growth. (This will generally be the case only during initial establishment of permanent plots).
- o **Cutting vines and moss** - Destructive sampling will not be done. In cases where vines or moss preclude the use of diameter tapes for estimation of diameter, calipers or other estimation procedures may be used. In these cases, field notes should identify trees with estimated diameters and the method used.
- o **Specimen Collection**
 - No personal flora or fauna collection is permitted on NFS lands. Collections are for scientific or educational purposes only, dedicated to public benefit, and may not be used for personal or commercial profit. All collections for scientific purposes must be approved by the Regional FIA Coordinator.
 - No archeological or vertebrate paleontological materials may be collected. Upon location of any historical or archeological remains field work will cease and the site shall be reported immediately to the Regional FIA Coordinator. No disturbance of such a site is permitted.

o **Site Condition**

- All refuse associated with field operations shall be removed from NFS lands and the site of any data collection or encampment shall be returned to the condition in which it was found, as much as practicable.
- Soil disturbance is prohibited, except for soil sampling as part of Phase 3 or as specifically authorized by the Regional FIA Coordinator.
- Temporary markers, such as flagging, may not remain in place for more than one week when study teams are not present on a site. Paint, or similar semi-permanent markers, may not be applied to rocks, plants (except as described above), or other natural surfaces.

o **Wildlife Interaction**

- Harassment, hazing, or other disturbance of wildlife is prohibited.
- All food, garbage, and other attractants will be stored in sealed containers approved by the Regional FIA Coordinator. Field personnel will make all reasonable efforts to prevent wildlife from obtaining food, garbage, or other attractants from humans.
- Firearms may be carried on NFS lands only by approved Agency personnel who have successfully completed training, formally approved by the Forest Service, both in the use and safety of firearms and in proper human behavior around bears and other potentially threatening wildlife. Firearms may be carried only for defense of life during periods of field work.

VII. ADMINISTRATION

This SA shall be administered by the Research and Development Deputy Area and its Quantitative Sciences (QS) staff and by the National Forest System Deputy Area and its Ecosystem Management Coordination (EMC), Wilderness and Wild and Scenic Rivers (WWSR), and Forest Management (FM) staffs of the U.S. Forest Service. Responsible parties are:

/s/ Richard Guldin
 Richard Guldin, Director Date 21 Sept 09
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/s/ Greg Smith 10/2/09
 Greg Smith, Acting Director Date
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/s/ Tom Peterson 10/19/09
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/s/ David A. Cleaves 10-01-09
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/s/ Joel Holtrop 10/22/09
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Each Program, respectively, is authorized by one or more of the following legal mandates to perform the activities addressed in this SA:

Public Law 74-46, April 27, 1935, 49 Stat. 163 (Soil Conservation and Domestic Allotment Act);
 Public Law 88-577, September 3, 1964, 78 Stat 890. (Wilderness Act);
 Public Law 91-190, January 1, 1970, 42 U.S.C. 4321-4347 (The National Environmental Policy Act of 1969);
 Public Law 93-378, August 17, 1974, 88 Stat 476 (Resources Planning Act);
 Public Law 94-588, October 22, 1976, 90 Stat 2949 (National Forest Management Act);
 Public Law 95-307, June 30, 1978, 92 Stat 353 (Forest and Rangeland Renewable Resources Research Act);
 Public Law 95-313, July 1, 1978, 92 Stat 365 (Cooperative Forestry Assistance Act);
 Public Law 99-198, December 23, 198, 7 U.S.C. 2276 (Food Security Act of 1985);
 Public Law 100-521, October 24, 1988, 102 Stat. 2601 (Forest Ecosystems and Atmospheric Pollution Research Act);
 Public Law 84-159 (Title IX Amendments of the Clean Air Act of 1990);
 Public Law 105-185, June 13, 1998. [16 USC 1642 (e)] (Agricultural Research, Extension, and Education Reform Act); and
 Forest Inventory and Analysis Strategic Plan. United States Department of Agriculture, Forest Service, FS-865, January 2007

ENCLOSURE 1

TERMS USED IN THIS SERVICEWIDE AGREEMENT

FIA Program: The FIA program is described in Section 3(e) of the Forest and Rangeland Renewable Resources Research Act of 1978 (92 Stat 353, 16 U.S.C. 1642(e) as amended) and in the FIA Strategic Plan approved by Congress in April 1999.

Regional FIA Program: A sub-national portion of the FIA program managed and implemented in one of four regional areas of the U.S. (North, South, Interior West, or Pacific Northwest).

FIA Regional Manager: A Research Station officer responsible for managing the Regional FIA Program. There is one FIA regional manager per FIA regional program, assigned to the Research Station responsible for implementing the FIA regional program.

Regional FIA Coordinator: A NFS officer appointed by the Regional Forester or their designee to serve as a liaison and coordinator for FIA activities on NFS lands within the NFS region. Coordinates communication between the FIA program and all region and forest staff within the region.

National Forest FIA Coordinator: A NFS officer appointed by the Regional Forester or their designee to serve as a liaison and coordinator for all FIA activities on NFS lands within a certain national forest or group of national forests.

Regional FIA Management Team: A group of Forest Service, State, and other partners who are contributing resources (funds, staff, equipment, data, or other in kind contributions) in order to implement the FIA program. This group communicates as needed to ensure that work is done in an efficient and effective fashion.

National FIA Management Team: A group of Forest Service (FIA, NFS, FHM) and State forestry agency managers who are contributing resources (funds, staff, equipment, data, or other in kind contributions) in order to implement the FIA program. This group meets annually to review FIA program progress, resolve national and cross-regional issues and ensure that the FIA program is implemented in an efficient and effective fashion.

Core: A subset of the program, which is implemented in an identical fashion across all ownerships. There are two kinds of core:

- **National Core** - A subset of the FIA program implemented consistently on all forest land in the U.S. National Core program elements are defined by the National FIA Management Team.
- **Regional Core** - A subset of the program implemented consistently on all forest land within an FIA region. Regional Core program elements are defined by regional FIA management teams.

Phase 1: Remote sensing phase of the FIA program. Historically aerial photography-based, currently in transition to use satellite imagery.

Phase 2: National systematic set of ground sample locations, approximately 1 location per 6,000 acres, used to collect a set of field data.

Phase 3: A sub-sample of phase 2 plots, with one sample location approximately every 100,000 acres. Used to collect extended suite of field data, formerly referred to as forest health monitoring (FHM) plots.

ENCLOSURE 2

FIA Organizational Structure

