

Forest Inventory and Analysis **Band System**



FIA Fact Sheet Series

The Forest Inventory and Analysis (FIA) program of the USDA Forest Service is committed to increasing and improving the level of consistency in all stages of its national core inventory system - planning, data collection, photo and image interpretation, information management, compilation, analysis and reporting. This can only be accomplished by close communication and cooperation among all internal regional FIA personnel and external partners.

FIA Band System

The Band system is comprised of a set of technical committees. The term "Band" is synonymous with "Team" or "Group," and is used to uniquely identify these special FIA committees. The Band system was formed by the FIA leadership to provide a forum whereby technical experts in FIA, the National Forest System, State and Private Forestry, and State agencies across the US work together to produce one nationally consistent, efficient, and complete FIA program. As a secondary benefit, the Band system allows colleagues with similar interests and abilities to share information about their experiences in conducting regional FIA surveys.

Each Band is tasked to apply its technical skills to identify weaknesses and inconsistencies in the FIA program, and to develop strategies to resolve problems. Bands review each other's work and ideas for system improvements, and provide feedback with respect to their area of expertise.

Band-to-Band and within-Band interaction is essential to the process. Band members communicate regularly via e-mail, conference calls, and periodic meetings. Monthly conference calls

are held for Band Leaders to discuss and resolve inter-band issues. Bands also maintain their own website, which contains documentation on meetings, current issues, and work completed. A Band Conductor oversees and orchestrates the system, facilitating Band harmony and ensuring that their work progresses.

Chartered Bands

At present, there are four Bands chartered by the FIA Management Team. The Band system was restructured in September 2007 to improve accountability and provide more supervisory control of band work. This structural change merged two bands and established a Core Group within each Band, comprised of the FIA regional group leads. Each Band revised their charter to update the function and direction of the Band.

Analysis and Reporting Band – is charged with converting FIA data into information for issue- and clientbased analyses that address the extent, condition, health, and sustainability of the Nation's forested ecosystems. This includes developing and designing reporting templates for the early years of annual inventories and the completion of periodic inventories. This Band is also responsible for developing comprehensive 5-year analytical reports that address the longer-term needs of state, regional, national, and international users.

Data Acquisition Band – is charged with developing, testing, and documenting the most efficient and consistent standard approaches to collecting core field data for Phases 2 and 3. This includes developing and maintaining the National Core Field Guide, training programs, and quality assurance approaches.

Information Management and Compilation Band – is charged with developing and maintaining a National Information Management System (NIMS) for core FIA and regional data. The system includes standard procedures for data collection, editing, validation, compilation, and reporting of internal and external databases. They also develop web applications for data distribution to outside users.

Techniques Research Band – is charged with improving the efficiency, timeliness, and quality of the FIA program by addressing appropriate problem areas. The Band focuses on expanding the existing methodologies and product lines by identifying and testing new technologies and techniques in a nationally coordinated fashion.

Band Membership

In addition to the Core membership of group leads from each of the FIA work units (Anchorage, AK; Knoxville, TN; Ft. Collins, CO; Ogden, UT; Newtown Square, PA; St. Paul, MN; and Portland, OR), other regional FIA staff participate in the Bands. A state representative is appointed by each of the three National Association of State Foresters (NASF) regions - North, South, and West. State and Private Forestry, and National Forest System each appoint one or more members. Each Band also has a representative from the FIA Management Team to provide leadership and communication between the Band and the FIA Management Team. Each Band may also add extra members, as needed.

A Band Leader (regional group leads rotate this position), provides direction and guidance on Band business and serves as the Band's liaison to the FIA Management Team.

Current Band Priorities

Data Acquisition:

- Complete preparation of the FIA National Field Procedures Manual Version 5.0.
- Develop a comprehensive national training program and quality assurance field methodology.
- Review curent field techniques and actual measurement errors to develop cost-effective alternatives for efficient data collection.

Analysis Band:

- Create national standards for volume, biomass and carbon estimations.
- Continue refinement of core reporting format and guidelines
- Develop standards and procedures for nationally consistent quality assurance analyses.
- Identify other critical tasks that will influence completion of above products or ability of analysts to complete standard analysis and reports.
- Serve as FIA focal point for addition of new attributes and development of new indicators.

Techniques Research:

- Investigate the various methods for combining panels for annual estimation, and make recommendations for core reporting.
- Create a FIAtlas a set of 80-125 maps of the Nation's forest resources, depicting their spatial distribution, pattern, and variability.
- Develop recommendations for cartographic standards associated with FIA map products (phase 1) and create a listing/organiztion of relevant GIS base layers for the FIA national program (phase 2).
- Administer RSAC projects 1)
 Identification of Harvest
 Patterns using Remotely Sensed
 Data, and 2) Integrating large

- scale aerial photography with lidar for improved FIA efficiency: A pilot on the Lubrecht Experimental Forest.
- Work to improve estimates of Phase 3 variables. Identify techniques to quantify potential correlations among Phase 2 and Phase 3 variables. Suggest modifications to Phase 3 estimation procedures when appropriate. Determine alternative sample intensity of appropriate Phase 3 variables,
- Standardize and formalize the process by which storm (and other catastrophic event) effects are measured and reported.

Information Management:

- Expand NIMS compilation system, version 4.0, to include new forest type algorithm, as well as other changes to version 3.0.
- Update public database (FIADB) version 4.0 tables and new documentation.
- Develop field data collection program (MIDAS) and documentation.
- Upgrade NIMS internal processing system (from NIMS Navigator to Maestro front-end program).
- Continue development of data tools available to the public on the Web.
- Work cooperatively to migrate FIA applications to the Forest Service National Data Center.

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For more information about the FIA Program:

- See our "FIA Contacts" Fact Sheet
- Visit our national FIA website: http://www.fia.fs.fed.us