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Comprehensive Regional Resource Assessments and Multipurpose Uses of Forest Inventory and Analysis Data, 1976 to 2001: A Review

Victor A. Rudis

The Author

Victor A. Rudis, Research Forester, U.S. Department of Agriculture, Forest Service, Southern Research Station, 201 Lincoln Green, Starkville, MS 39759.

Cover:

Depending upon one's disciplinary perspective, the image on the cover may depict forest products, services, or intangible values. Inventoried elements in the scene could include information about air quality, human uses, tree volume, the owner's intentions, the forest's proximity to water, and temporal trends, with some data having multipurpose uses in a comprehensive forest resource assessment.

For more information regarding the FIA Program, contact the following:

National
FIA National Program Leader
USDA Forest Service, 1NW
201 14th St., SW
Washington, DC 20090-6090

Northeast
Program Manager, FIA
USDA Forest Service
Northeastern Research Station
11 Campus Blvd., Suite 200
Newtown Square, PA 19073

North Central
Program Manager, FIA
USDA Forest Service
North Central Research Station
1992 Folwell Ave.
St. Paul, MN 55108

South (includes Puerto Rico and Atlantic territories)
Project Leader, FIA
USDA Forest Service
Southern Research Station
4700 Old Kingston Pike
Knoxville, TN 37919

Rocky Mountain
Program Manager, FIA
USDA Forest Service
Rocky Mountain Research Station
507 25th St.
Ogden, UT 84401

Pacific Northwest (includes Alaska, Hawaii, and Pacific territories)
Program Manager, FIA
USDA Forest Service
Pacific Northwest Research Station
620 SW Main, Suite 400
Portland, OR 98205

Statistical Techniques
Project Leader, FIA
USDA Forest Service
Rocky Mountain Research Station
2150 Centre Ave., Bldg. A
Fort Collins, CO 80526-1891

Or visit the FIA Web site at:
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Southern Research Station
P.O. Box 2680
Asheville, NC 28802

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Comprehensive Regional Resource Assessments and Multipurpose Uses of Forest Inventory and Analysis Data, 1976 to 2001: A Review

Victor A. Rudis

Abstract

Reported is a compilation of over 1,400 literature citations and a review of selected subjects that constitute an integrated knowledge base for comprehensive forest resource assessments with regional, field sample-based forest inventory data. The focus of the report is on nontraditional and novel technical uses tied to the U.S. Department of Agriculture, Forest Service, Forest Inventory and Analysis (FIA) field surveys published or in press between 1976 and July 2001. Briefly noted are pioneering studies that link FIA data with air pollution, biomass, dead wood, esthetics, geographic context (geographic information systems and satellite remote sensing), nearby nonforest influences (operability, roads), owner attitudes, range (agroforestry and livestock use), recreation, tropical inventories, water quality (soils and hydrology), vegetative habitat typing, and wildlife. All known M.S. theses and Ph.D. dissertations associated with FIA data since 1976 are included, regardless of subject matter. Also incorporated are citations of collected works concerning integrated assessments and multidisciplinary surveys and representative citations associated with economics, global climate change, remote sensing, sampling designs, tropical forest resources, and traditional timber resource assessments. The literature review suggests assessments are "comprehensive" for issues in selected regions and chosen resources. Multidiscipline involvement, multipurpose uses of nontraditional data, and analysis of resources other than timber are variable. Nontraditional measurements and models, with some exceptions, have been provincially, rather than nationally, applicable and not well coordinated among regions. Recommended are ways to accelerate progress toward comprehensive assessments and cost-effective multipurpose uses.

Keywords: Bibliography, ecological inventories, forest inventory, hydrology, interdisciplinary studies, integrated assessments, monitoring, natural resource planning, range, recreation, timber, water, wildlife habitat.

Introduction

The scope of land-management-planning issues has widened and the process of measuring and assessing forest resources has grown increasingly complex. Traditional timber-oriented inventories no longer are sufficient to assess timber supplies or monitor forest resources (Wikstrom and Alston 1985). There is widespread perception that current efforts and capabilities for monitoring America's forest resources are failing to meet increasingly complex and large-scale needs (Peterson and others 1999). The expanding role of forests and public involvement in forestry today elicit differing concerns, measurement priorities, and sometimes opposing opinions about land use, forest resources, and the attributes to be measured.

Inventories of standing timber are common benchmarks by which many forest industries and natural resource agencies determine forest-resource supplies, but an underlying assumption is that timber inventory data include all of the needed information. That this assumption is wrong is illustrated by the lack of mature-tree harvests near urban areas on nonindustrial private land and court injunctions against timber sales on National Forest System land.

Measurement of forest resources is not just an inventory of a forest's biological characteristics, but the evaluation of their value relative to all of society's needs. Scientific measurement of timber and other forest products is more precise than measurement of the less tangible values and services that forests provide. Comprehensive, multidisciplinary assessments that address contemporary forest resource issues require useful analyses of forest inventory data.

To be comprehensive, regional forest-resource inventories must not only account for forest land use and timber production, but also for land and water (hereafter earth) cover, other land uses, other resources, and their interactions. Long-term and global planning must also consider the effects of acid deposition, carbon sequestration, and climate change; and must anticipate changes in the role of forests as producers of products, services, and intangible values. Such assessments would seem to require the impossible—consideration of all associated resources and the social, spatial, and temporal dynamics taking place among them. Interdisciplinary inventories are frontiers in which multidisciplinary approaches advance towards comprehensive assessment. However, an integrated inventory may not be possible for all resources (Bastedo and Theberge 1983). Assessments must at least incorporate scientific data and analyses from other disciplinary perspectives—often assembled with dissimilar research techniques or collected at very different levels of precision.

A standard system for collecting, storing, and analyzing such information commonly is required, but usually is lacking (Jensen and others 1999). Many scientists and assessment teams familiar with studies within their own disciplines often ignore the work of other disciplines. Interdisciplinary analysis is uncommon because the interdisciplinary infrastructure—funding, information, and social networks—may not always exist. Rarely are there agencies, journals, or organized stakeholders, much less scientific societies, devoted to the task. Interdisciplinary assessments often are plagued by the inordinate amount of time required to communicate among authors with differing disciplinary perspectives using analyses performed at inconsistent scales of data resolution.

This report considers a corpus of material from a variety of natural resource disciplines and perspectives in a searchable database, assembled for studying the ways that forest inventory data are used. Knowledge of the corpus is crucial in optimally selecting measurement standards, identification of knowledge gaps, and the developing comprehensive assessments.

Federal, State, and local public agencies, large land-holding commercial firms, and some nongovernmental organizations (NGOs), conduct resource inventories to obtain information and make decisions about forests. The author used the systematic field, sample-based forest survey conducted by the U.S. Department of Agriculture, Forest Service (USDA FS), Forest Inventory and Analysis (FIA) program as an example. This science-based, broad-region survey program, one of the oldest of its kind still used, began in the 1930s in response to concerns about dwindling timber supplies on private land in the United States. Responsibility for assessing current conditions and trends in both public and private forests rests with the USDA FS; and the FIA program is its research-based tool. Scientific, sample-based inventories began with the passage of the McSweeney-McNary Forest Research Act of 1928. Later, passage of the Forest and Rangeland Renewable Resources Planning Act of 1974 (P.L. 93-378 [88 Stat. 476]) and associated laws in 1978 (P.L. 95-307 [92 Stat. 353]) shifted inventory and monitoring efforts of the USDA FS from documenting commodity outputs towards a more comprehensive assessment of forest resources that also included water, range, recreation, timber, and wildlife values. The Forest Ecosystem and Atmospheric Pollution Research Act of 1988 added monitoring to account for ecological effects associated with air pollution. Cooperative agreements with eastern national forests and later legislation (Agricultural Research, Extension, and Education Reform Act of 1998) broadened the USDA FS FIA program to include status-and-health surveys on all public land, including western national forests and designated wilderness areas.

Owing to differing resources and stakeholders, there is some regional variation in the manuals of procedures for field data collection assembled by FIA staffs (U.S. Department of Agriculture, Forest Service 2001b, 2001c, 2001d). Nevertheless, a core set of attributes and procedures always has conformed to one set of measurement standards for national reporting. Between the late 1970s and mid-1990s, some FIA staffs started developing comprehensive assessments, often independently, by supplementing traditional timber measurements with procedures drawn from other natural resource disciplines, measures relevant to other natural resource assessments, and an inventory of attributes with multipurpose interest; e.g., in Alaska,[1] Intermountain

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[1] U.S. Department of Agriculture, Forest Service. 1995. Field procedures for the southeast Alaska inventory. [Various pages in separate sections]. On file with: USDA Forest Service, Pacific Northwest Research Station, FIA Unit, 3301 C Street, Suite 200, Anchorage, AK 99503-3954.

West,[2] North Central,[3] Northeastern,[4] Pacific Northwest,[5] and Southern (Kentucky,[6] Midsouth,[7] and Southeast[8]) United States, and Puerto Rico.[9] In some instances, FIA staffs also assembled relational databases containing the added attributes with traditional timber data to facilitate extramural analyses and modeling with resource objectives other than timber; e.g., in the north-central region for total biomass appraisals (Hahn and Hansen 1985) and the southern (Midsouth[10] and Southeast[11]) region for a variety of range, recreation, water, and wildlife habitat assessments.

Individuals from agencies, disciplines, and regions often differ in their need for information from forest inventories and assessments. In developing nationally standardized inventories and comprehensive assessments, decision makers seek consensus among stakeholders from a variety of disciplinary interests and resource regions, e.g., cooperators and partners from State agencies, other Federal agencies, forest industry, and universities, along with concerned individuals. Stakeholders today also include groups like The Nature Conservancy, The Wilderness Society, the U.S. Environmental Protection Agency, the U.S. Department of the Interior Fish and Wildlife Service, and USDA Natural Resource Conservation Service (NRCS), as well as those focused only on timber resources. Individuals in such disparate disciplines need a common understanding of past and present measurements and knowledge of others' concerns about associated resources. Integrated knowledge is essential to optimize the selection of common attributes and standardize procedures for cost-efficient data collection, storage, management, and analysis.

Stakeholders often question the usefulness of observations, measurements, and techniques not directly tied to their interests. Field data collectors may ask: "Why are we measuring this?", "Who is going to use it?", and "How important is it?" For resource inventory administrators, analysts, and data-acquisition specialists, which additional measures will truly be useful once collected, and which now recorded should be dropped are routine concerns at State, regional, and national meetings. Questions about forest resource issues posed by local public-interest groups occupy center stage from time to time, engendering a scramble for the appropriate inventory or analysis technique. Published studies—scattered among libraries of disparate disciplines, agencies, and regions—already address many such questions. A citation database is one means of informing these and other groups, finding relevant reports for particular issues, discovering already tried sampling and assessment efforts, and promoting new ways to analyze, describe, and integrate the data with other information.

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[2] U.S. Department of Agriculture, Forest Service. 1994. Utah forest survey field procedures, 1994-1995. 232 p. On file with: USDA Forest Service, Rocky Mountain Research Station, Interior West FIA Unit, 507 25th Street, Ogden, UT 84401.

[3] U.S. Department of Agriculture, Forest Service. 1996. North central region inventory and analysis field instructions—Illinois and Indiana. 87 p. + appendix. On file with: USDA Forest Service, North Central Research Station, FIA Unit, 1992 Folwell Avenue, St. Paul, MN 55108.

[4] U.S. Department of Agriculture, Forest Service. 1996. Field instructions for the fifth inventories of New Hampshire and Vermont. 90 p. + appendix. On file with: USDA Forest Service, Northeastern Research Station, FIA Unit, 11 Campus Blvd, Suite 200, Newtown Square, PA 19073.

[5] U.S. Department of Agriculture, Forest Service. 1995. Field instructions for the inventory of western Oregon 1995-1997. 224 p. On file with: USDA Forest Service, Pacific Northwest Research Station, FIA Unit, 620 SW Main, Suite 400, Portland, OR 97205.

[6] U.S. Department of Agriculture, Forest Service. 1986. Field instructions for the fourth inventory of Kentucky 1986–1987. 97 p. + appendix. On file with: USDA Forest Service, Southern Research Station, FIA Unit, 4700 Old Kingston Pike, Knoxville, TN 37919.

[7] U.S. Department of Agriculture, Forest Service. 1994. Forest survey inventory work plan: Arkansas 1994–1995. 61 p. + appendices. [Appendix B: Other forest resources work plan, 1994-1995. 19 p. http://www.srs.fs.usda.gov/pubs/viewpub.jsp?index=502 (Date accessed: June 2003)]. On file with: USDA Forest Service, Southern Research Station, FIA Unit, 4700 Old Kingston Pike, Knoxville, TN 37919.

[8] U.S. Department of Agriculture, Forest Service. 1991. Field instructions for the Southeast. [Various pages]. On file with: USDA Forest Service, Southern Research Station, FIA Unit, 4700 Old Kingston Pike, Knoxville, TN 37919.

[9] U.S. Department of Agriculture, Forest Service. 1991. Forest survey inventory work plan: Puerto Rico 1990. 38 p. + appendix. On file with: USDA Forest Service, Southern Research Station, FIA Unit, 4700 Old Kingston Pike, Knoxville, TN 37919.

[10] U.S. Department of Agriculture, Forest Service. 1996. Interactive data access user manual: forest inventory and analysis: forest resource data for Midsouth States. Version 6.1. [Various pages]. On file with: USDA Forest Service, Southern Research Station, FIA Unit, 4700 Old Kingston Pike, Knoxville, TN 37919.

[11] U.S. Department of Agriculture, Forest Service. 1984. A user's guide to forest information retrieval (FIR): forest inventory and analysis. 93 p. On file with: USDA Forest Service, Southern Research Station, FIA Unit, 4700 Old Kingston Pike, Knoxville, TN 37919.

Background

Monitoring of earth cover for forest resources with sample observations began in the 1930s (Frayer and Furnival 2000). The USDA FS established the Forest Survey program to conduct such surveys on all private land and most non-Federal public land. From the beginning, the audience for these data included natural resource planning agencies of the Federal Government, State forestry agencies, and their supporters. Authors of the first nationwide inventory titled their document “Timber Resources for America’s Future” (U.S. Department of Agriculture, Forest Service 1958). Satisfying the need for standardized timber statistics remained a primary driver of the inventory program in both the early 1970s (U.S. Department of Agriculture, Forest Service 1973), and the late 1970s (U.S. Department of Agriculture, Forest Service 1977).

Even as they were begun, however, these timber-oriented inventories addressed other interests. Integration of data about forest types with earth-cover information occurred in map form—an effort that necessitated incorporation of nonforest landmarks. Ownership, volume, and other attributes of forest land later appeared in map form, along with tabular statistics, e.g., for Mississippi (Sternitzke 1962). Descriptive distribution maps of tree species on forest land have appeared for economically important species, e.g., hickory (Cruikshank and McCormack 1956). An early research use included comparisons of surveyed tree-species distributions with tree pollen from pond sediments, which were useful in gauging long-term species shifts and the ecological processes that gave rise to them (Webb 1974).

In the late 1950s and early 1960s, the American Forestry Association (AFA) sponsored three efforts to assemble examples of what today might be termed a comprehensive assessment. Analysts combined into book-length volumes, FIA data on forest-land area, land cover, forest ownership, available literature, and other economic and demographic information. Included were forest-type maps, tabular summary statistics of forest area, an analysis of issues, and a discussion of other resources. Using data for California (Dana and Krueger 1958), one set of topics focused on private land intermingled with public land. Using data for Minnesota (Dana and others 1960), another focused on formerly tax-delinquent local public land. Using data for North Carolina (Pomeroy and Yoho 1964), the third effort focused on small, nonindustrial private holdings. A central concern that emerged from the three reports—and other owner studies of the period (Moyer and Daugherty 1976)—was that the intentions of private nonindustrial owners regarding forest-land use were critical to adequately assessing timber supplies.

Early documents that linked forest inventories to other resource evaluations concerned deer browse (Moore and others 1960, Ripley and McClure 1963). By the mid-1970s, many felt that combining the effort to directly inventory timber attributes with information about other resource attributes made sense—even among those concerned only with timber resource supplies (Southern Research Planning Committee 1974). Scientists from the USDA FS with cooperators at research institutions, modified inventory procedures for FIA data collection and analysis to better address associated issues surrounding timber supplies, such as ownership studies (Kingsley 1975), field estimates of potential productivity from noncommercial species (MacLean and Bolsinger 1973), and potential range on forest land (Pearson and Sternitzke 1974). In a 1975 meeting scheduled to discuss the 1976 survey of South Carolina, organizers from the State and the USDA FS expanded “the ongoing timber-oriented forest survey into a more complete . . . inventory” (McClure 1979). Initial findings appeared in “Multiresource Inventories—A New Concept for Forest Survey” (McClure and others 1979).

Reflecting shifting interests, the program changed names a few times—the Renewable Resources Evaluation (RRE) program in the late 1970s, and since the mid-1980s—the FIA program. In the past, FIA units coordinated with the National Forest System, the Bureau of Land Management, and other landholding Federal agencies, as well as States, to compile inventory information for all domestic forest land. Today FIA is responsible for surveys on all land. Through cooperative arrangements, many of the smaller Federal land parcels, Federal land in Alaska, and all National Forest System land are surveyed using the same FIA sampling scheme.

In the 1990s, concerns about air pollution effects on forest ecosystems fostered the development of an FIA-affiliated program known as “Forest Health Monitoring” or FHM (Bones 1993). The program began in the Eastern United States (Bechtold and others 1992, Bones 1993, Brooks and others 1991) and spread to the West (O'Laughlin 1994). The program includes growing-season measurements; pilot testing of a variety of indicators, e.g., understory vegetation structure; and collection of a wider array of information, e.g., tree crown condition and soils. Recent FHM reports use FIA data to establish the context for findings rather than making resource assessments, but commonly focus on damage and mortality to trees from pests and air pollution. FHM used a sampling scheme, and for some regions used locations that differed from the FIA program until about 1996. FIA and FHM programs now are merged. FHM conducts more detailed measurements than FIA and does most sampling during the growing season on a subset of FIA plots. FHM publishes State, regional, and national reports, with the most recent regional reports available for the Northeast (McWilliams and others 1997), South (Burkman and others 1998), and West (Rogers and others 2001).

Forest inventory priorities and the issues addressed in assessments have shifted over the years. In the past decade, increasing awareness of global forestry issues has broadened the scope of data needed to include criteria and indicators for the conservation and sustainable management of forests (Smith 1999). Nations made commitments to provide such information that meets agreed-upon global reporting protocols (Smith 1999). These indicators will shape both the selection and standardization of future attributes for the FIA program, as well as the analysis of existing forest resource data.

Despite many changes, FIA data and inventories generally are not widely perceived to address issues other than those that relate strictly to timberland and timber resources. A common assumption is that the U.S. Census of Agriculture provides a definitive estimate for area of cropland and pastureland, and that NRCS surveys provide definitive nonforest resource estimates. Acceptance of this belief is reflected in the presentation of land-use area estimates. In the first table of many USDA FS FIA resource bulletins (e.g., Alerich 1990), FIA inserts U.S. Census of Agriculture area estimates of cropland and pastureland for nonforest land.

Monitoring the associated attributes of forest ecosystems remains a critical component of the FIA survey effort. Most FIA resource status reports include species, damage, stand structure, and human influence measurements as important indicators; estimates of disturbance, growth, removals, mortality, succession, and erosion as important processes; and amenities, range, recreation, timber, water quality and wildlife habitat as important resources. Due to differing measures and regional interests, the reports vary in their coverage. Beginning in 1999, a committee composed largely of Forest Service FIA staff agreed to a core set of these attributes to serve as the standard set of nontraditional measures nationwide. To what extent the analysis of these indicators, processes, and resources will be featured in future resource status reports has not yet been determined.

Problem and Objectives

Cross-disciplinary surveys often share some data, informal infrastructure, development concepts, and stakeholders. However, such surveys often have restricted administrative support among natural resource agencies and professional research societies. Akin to trans-boundary efforts among sovereign nations, cross-disciplinary surveys have no common sources of financial support, and few communication vehicles, such as journals and terminology, that mean the same to all involved. The lack of a formal administrative infrastructure extends to information management, which includes cataloging, storage, and delivery of data and associated documents.

Before the widespread use of Internet technologies, display and storage of paper copies on central library shelves increased the likelihood that a report would receive attention by a diverse audience. For years, USDA FS Research Stations have published paper copies of FIA-associated documents. They commonly are delivered free of charge to interested individuals and libraries,[12] some of which are forestry department libraries. Central libraries that were part of the Federal

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[12] Each USDA FS Research Station publishes and distributes a list of recent Station publications and reprints of selected articles published elsewhere by Forest Service scientists. Some Stations also send all of their publications to those libraries that request them. Periodically, the Stations also ask recipients to formally resubscribe or renew their stated interest in receiving the list or paper copies of documents.

Depository Library (FDL) program[13] relied, in part, on the FDL for collection, cataloging, and delivery of all USDA documents. With few exceptions, however, FDL policy since 1981 has been to distribute documents only on microfiche.

Cataloging by subject, as well as discipline, and inclusion of abstracts or other extensive indexing also increases the likelihood of a readership broader than the traditional forestry discipline. In practice, indexing varies widely among forestry schools. While many university libraries index Research Station serial publications as individual books, others catalog them by series number only, rather than by author, keyword, title, or subject. Still other libraries and their patrons rely on bibliographic services attuned to government documents, such as AGRICOLA. By contrast, a nongovernment journal's publisher or professional society often extensively indexes articles and books of serial publications every few years.

Today, online catalogs and searches of most university libraries as well as specialized for-profit bibliography services and several nonprofit collections, are available to anyone with a modem and a personal computer. Many newer publications are now available on the Web. Indexing also has improved, and electronic searches of an entire document may be conducted online.

Given all of the above, there is an obvious gap in cataloging, indexing, and distributing information to diverse audiences. This is especially true of older documents. My objective is to assemble and index the literature associated with FIA data from an array of natural resource disciplines, technical user groups, scholarly peer-reviewed journals, and online electronic sources. The citation database indexes reports from individual disciplines, forms a knowledge base for referencing associated efforts, and provides a tracking process to monitor technical advances. As a reference repository, the citation database fosters integration of an evolving knowledge system for data collection, modeling, monitoring, and analysis, as well as the cross-disciplinary dissemination of findings.

This report focuses on nontraditional and novel technical uses tied to the USDA FS FIA field surveys that were published between 1976 and July 2001. Studies that reported using FIA data were included if associated with hydrology, ownership, range, recreation, or wildlife habitat. Also included are citations of collected works concerning integrated assessments and multi-disciplinary surveys; representative citations associated with air pollution, economics, global climate change, remote sensing, sampling designs, tropical forest resources, and traditional timber resource assessments; and all known M.S. theses and Ph.D. dissertations since 1976. Briefly noted are pioneering studies to analyze data from inventories of air pollution, biomass, dead wood, esthetics, geographic information science, operability, ownership, range and livestock use, recreation, satellite remote sensing, water, tropical forest resources, vegetative habitat, and wildlife habitat.

Methods

The first citation database was Rudis' (1991) "Wildlife Habitat, Range, Recreation, Hydrology, and Related Research Using Forest Inventory and Analysis Surveys: A 12-Year Compendium," which covered the period 1979 to 1990 for the coterminous United States. I revised the database and expanded the years of the compendium to include the period 1976 through July 2001. Revisions included citations of all known M.S. theses and Ph.D. dissertations associated with FIA data since 1976, regardless of topic, citations of collected works and selected documents concerning integrated assessments and multi-disciplinary FIA surveys prior to 1976, FIA surveys in the tropical United States, and representative citations associated with timber resource assessments. I assembled all citations in Endnote 4.0 software (ISI Research Soft 2000) to form a fully searchable citation database.

[13] The Federal Depository Library (FDL) program is a centralized library service that makes available publications produced by Federal agencies. Unlike the Research Stations, the FDL program serves both libraries and Federal agencies by not requiring periodic resubscription, production, delivery, and selection of specific documents. Instead, the FDL program provides all Research Station publications. Beginning in 1977, however, the FDL started using microfiche as an alternative to paper distribution. Inch-thick technical documents, for example, were reduced to a millimeter in size, which saved considerable delivery and storage costs. Since 1981, FDL has stopped sending paper copies of selected documents and replaced them almost exclusively with microfiche, except for color-based publications. Today, Web-accessible documentation has increased, but the policy for tangible documentation remains in microfiche.

Queries of other electronic databases for 1976 through July 2001 used the following keywords: forest inventory, multipurpose, and surveys; multiresource and surveys; regional and forest and surveys, forest and service and surveys; land and resource and survey; land use; FIA and forest; forest and inventory. Chief search engines used were AGRICOLA, dissertation abstracts, USDA FS Research Station publication databases, and recent issues of journals with online search capabilities. Other electronic searches used keywords: land use; FIA and forest; forest and inventory. The other electronic searches included Scirus "http://www.scirus.com" an Internet search engine focused on scientific information, and a variety of Web search engines (primarily AltaVista, Google, and Netscape).

As in Rudis (1991), other professionals (scientists within the USDA FS FIA program, NGOs, and professors at universities) known to use FIA data for nontraditional purposes provided their lists of publications. Sources included conference proceedings associated with contributions already known to contain presentations by these professionals. I also included Web-based technical publications but not newspapers and nontechnical articles in popular news magazines.

The citation database includes abstracts where available, and annotations of selected recent publications (particularly those concerned with timber resources) to reference information reflecting their multidisciplinary, multipurpose, nontraditional, and novel analyses or data uses. Citations concerned with traditional timber resource statistics and analysis are included but are not inclusive of all such reports. Within-State USDA FS Resource Bulletins that consist chiefly of traditional tabular statistics are excluded.

For several reasons, key references between 1976 and 1978 are listed primarily as collected works, e.g., conference proceedings and bibliographies, rather than as citations from individual authors. A bibliography of multiresource and integrated inventory studies already is available for the period 1978 and earlier (Lund and McNutt 1979). The Lund and McNutt (1979) bibliography also contains many citations for inventories conducted by other U.S. agencies and foreign countries, as well as a wider diversity of inventory citations—with annotations. In addition, online search capabilities and access to hardbound materials were more limited before the widespread use of computers.

Results and Synthesis

There were over 1,425 citations published or in press between 1976 and July 2001. What follows is an overview of studies for the period, early progress for selected subjects, approaches to comprehensive assessments, progress toward multipurpose utility, and a synthesis. An appendix lists citations by selected subjects.

The number of entries grew between 1979 and 2000, with a slight decline in the early 1990s (fig. 1). Increases in the past 5 years are likely due to sponsorship of aggregate studies associated with a decennial assessment required under the Resources Planning Act (RPA). Other likely causes are wider dissemination and Internet

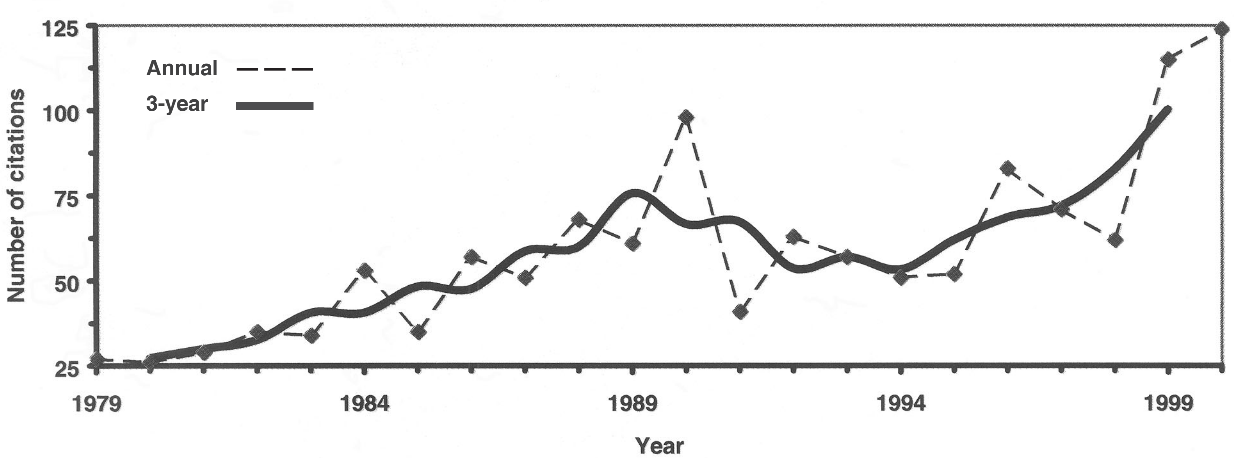

Figure 1—Average frequency of articles associated with forest inventory and analysis data uses, 1979 to 2000.

documentation of the traditional forest inventory data in the East (Hansen and others 1992) and West (Woudenberg and Farrenkopf 1995), other advances in Geographic Information System (GIS) software, and the growing demand for more comprehensive regional assessments. Since publication of the eastwide manual (Hansen and others 1992), citations have more than doubled.

A Growing and Diversifying User Audience

Strategically important components of a comprehensive survey require information from and involvement by other agencies and disciplines, a broad constituency, and informed stakeholders. Because laws mandate comprehensive assessments, there is a need for information about timber, other resources, and other forest attributes. The range of data and analyses and the potential audience for these data—both inside and outside the USDA FS—has greatly expanded. Data dissemination and involvement across disciplines at the technical level, and across agency jurisdictional boundaries at the administrative level, are not yet well coordinated.

At the national level, forest-land assessments continue a long tradition of service to the timber resource community (U.S. Department of Agriculture, Forest Service 1981, 1982, 1989, 2001a). Analysts have addressed information needed by increasingly wider audiences, with larger sections devoted to other resources and other associated issues. An array of natural resource disciplines is involved in preparing reports to address allied issues. FIA data are important in many such studies (Flather and others 1999; Joyce and Birdsey 2000; Mitchell 2000; Smith and Sheffield 2001; U.S. Department of Agriculture, Forest Service 2001a).

The primary users of data and analytical reports before 1979 were national, State, and county forestry agencies, forest industry representatives, and forest industry consultants. At the State level, many FIA forest inventory resource bulletins focus on data standardized to address timber resource interests, such as traditional statistics (timberland area, growing-stock volume, sawtimber and poletimber-sized stands, and trends in growth, removals, and mortality). Few consultants, managers, planners, or researchers are willing to sift through data and analyses laden with resource assumptions other than their own. Nor are they likely to spend much time expressing cross-disciplinary data needs relevant to other resources, agencies, or issues.

Some resource user groups have documented inventory data needs and the types of analysis desired with regard to nontraditional attributes such as human influences, range, recreation, wildlife habitat, and water quality. In the 1980s, such reports appeared in selected proceedings (Barnard and others 1985, Chalk and others 1984, Irland Group 1989, Lewis 1988, Porter and others 1983, Shands 1985). Recent reports have documented additional needs for timber (Irland Group 1989, Minnesota Department of Administration Management Analysis Division 1997, Tarbet and Cashwell 1990), wildlife habitat (Brooks 1990; Brooks and Barnard 1984; Morrison and Marcot 1995; U.S. Department of Agriculture, Forest Service 1992), and ecological information in general (Rudis and others 1995). Two national blue ribbon panels, representing Federal and State agencies, forest industry, universities, and NGOs—made specific recommendations about the FIA program (American Forest & Paper Association 1998, American Forest Council 1992). Multidisciplinary regional assessments, such as those for the Pacific Northwest (Haynes and Perez 2000), also noted data gaps and listed recommendations for regional surveys.

State and local users make their special data needs known through individual FIA units, but public records of informal inquiries are not maintained. Forest industries use FIA data extensively to model current and projected wood supplies, to support investment analysis and to assess regulatory impacts on wood supplies, e.g., coastal zone, riparian, and endangered species habitat restrictions (Lord 2000). These groups and individuals often ask for general stand characteristics, including tree species and ownership information that is already available in standard format from the FIA Web site http://fia.fs.fed.us. Occasionally articles are published that detail recommendations on selected nontraditional attributes, e.g., for input into the State of California's wildlife habitat modeling efforts (Noon 1984), but such documentation is rare or incomplete. Timber resource interests note the need for more, better, and faster information. Better information includes geographic context attributes to assess urban impacts and timber availability, and vegetative habitat typing to model future wood productivity (Lord 2000). Occasional users of FIA statistics include individuals in disciplines other than timber management, such as forest hydrologists, recreation specialists, and managers in State-level natural heritage and wildlife agencies and conservation groups. These and other occasional users have expressed interest in these and other nontraditional data, as well as other novel data uses (Blackmon 2001); although they may be unaware of some elements, or have limited financial opportunity to analyze fully the nonstandard information.

Other evidence for the wider array of scientific interests comes from reports in nontraditional journals. Three-fourths of the articles come from conference proceedings, regional assessments, and individual USDA FS Research Station reports. The number of journal articles has been increasing since the mid-1980s (fig. 2), as has the number of outlets. Articles have appeared in no fewer than nine different journals every year since 1986 (fig. 3).

Common outlets for much traditional FIA-related research are Canadian Journal of Forest Research, Forest Products Journal, Forest Science, and Journal of Forestry. There is a much more diverse audience today. In 2000, subjects included a wide range of biology, ecology, and economic issues, as represented by the articles' journal titles. Such titles are: American Journal of Agricultural Economics (Prestemon and Holmes 2000), Forest

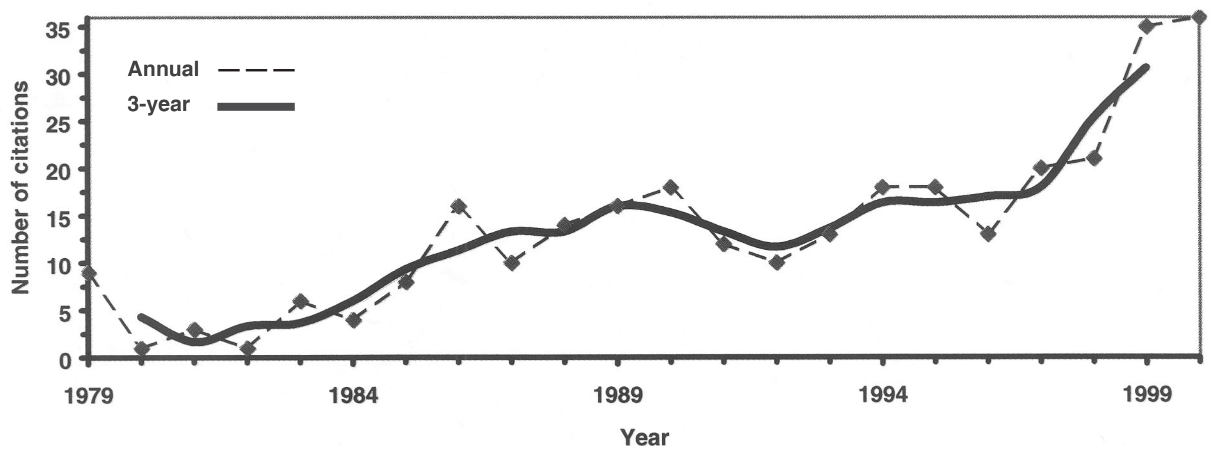

Figure 2—Average frequency of articles in journals associated with forest inventory and analysis data uses, 1979 to 2000.

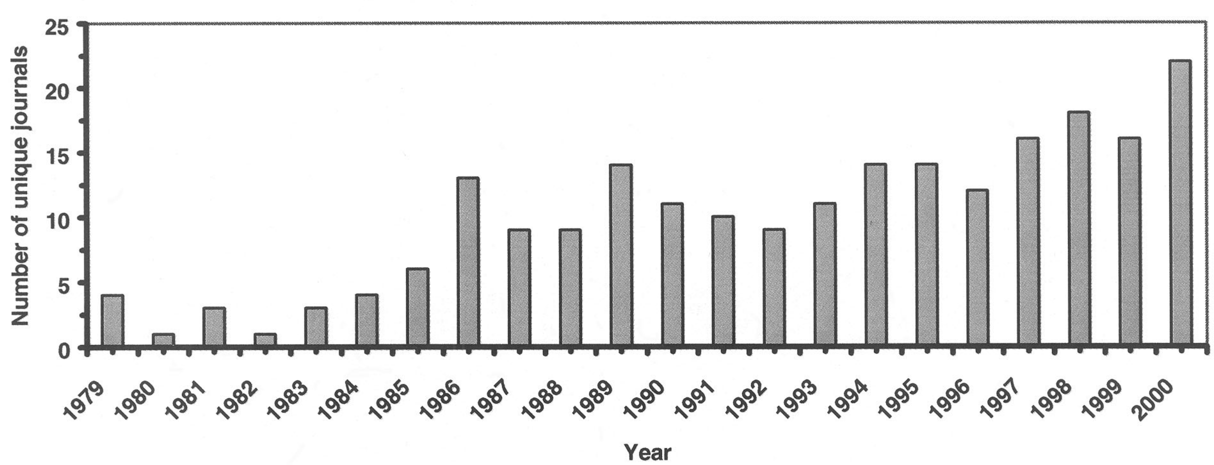

Figure 3—Annual frequency of unique journals with articles associated with forest inventory and analysis data uses, 1979 to 2000.

Ecology and Management (Borges and Hoganson 2000, Gill and others 2000a, Lund and Iremonger 2000), Forest Policy and Economics (Raunikar and others 2000), Global Ecology and Biogeography (Phillips and others 2000), Journal of Biogeography (Buergi and others 2000), Journal of Forest Economics (Scarpa and others 2000), Native Plants Journal (Outcalt 2000), Southern Journal of Applied Forestry (Cubbage and others 2000, Huebschmann and others 2000, Prestemon and Pye 2000), American Midland Naturalist (Zhang 2000), Transactions of the North American Wildlife and Natural Resources Conference (Schmidt 2000), Western Journal of Applied Forestry (Chojnacky and Dick 2000), and World Resources Review (McNulty and others 2000). Others include Annals of Operations Research (King 2000a), Atmospheric Environment (Wiedinmyer and others 2000), Climate Research (Easterling and others 2000), Computers and Electronics in Agriculture (King and others 2000, MacLean and others 2000, Shifley and others 2000), Environmental Modeling and Assessment (Luxmoore and others 2000), Environmental Monitoring and Assessment (Mercer and Aruna 2000, Stehman and others 2000), Remote Sensing of Environment (Gill and others 2000b), and The Compiler (King 2000b). For the first half of 2001, other journals included Ecological Modeling (Bragg 2001), Global Change Biology (Coops and Waring 2001), Journal of Vegetation Science (Frescino and others 2001), Land Use Policy (Buergi and Russell 2001), Wildlife Society Bulletin (Trani and others 2001), and Woodland Management (Leatherberry 2001b).

Early Progress

This section briefly notes early advances in analytical techniques, in characterizing other resources and in addressing such nontraditional subjects as air pollution, biomass, dead wood, esthetics, geographic context (GIS and satellite remote sensing), nearby nonforest influences, operability, owner attitudes, range (agroforestry, browse, livestock use, and understory forage), recreation opportunities, tropical inventories, water quality (erosion, hydrology, soils), vegetative habitat typing, and wildlife.

Air pollution (including biogenic emissions)—Early studies associating atmospheric pollution with forest decline (Brooks 1989, Hornbeck and Smith 1985, Hornbeck and others 1986) later led to detailed investigations. The first studies on biogenic emissions used FIA data as input for modeling air pollution from trees (Guenther and others 1989).

Biomass—Carbon sequestration and fire-danger rating models use FIA estimates of vegetation biomass. Analysts use FIA estimates to calculate potential fuel supply for wood-fired power plants, and to index foliage volume for ecological habitat characterization.

Scientists first developed estimates for all tree components and, later, estimates of vegetation on nonforest land as well as aboveground woody biomass. An early county-georeferenced, regional assessment map included estimates of woody biomass by dominant tree species (Delcourt and others 1981). In Florida, analysts quantified biomass from forest inventory data on trees, understory vegetation, samples of woody vegetation on nonforest land, and averages from unpublished data (Cost and McClure 1982). In other regions, scientists used a more precise accounting approach, e.g., in North Dakota (Jakes and Smith 1982), including biomass equations for an array of understory species for North-Central States (Smith and Brand 1983). Another modeling effort included understory biomass modeling tied to overstory estimates in Alabama (Joyce and Baker 1987) and portions of the interior West (Mitchell and others 1987). A study in Alaska tied understory species and biomass to vertical vegetative structure (Mead and others 1987, Yarie and Mead 1989). Later, scientists associated with each of these disparate efforts assembled a U.S.-wide publication on biomass in timberland (Cost and others 1990).

Dead wood—The term "dead wood" in this report refers to rotten and standing dead trees, and coarse woody debris. Live tree assessments are the main reason for timber resource assessments, but dead materials play a vital role not only in salvage logging operations but also in carbon biomass assessment, fire-danger rating, wildlife habitat assessments (termed snags or dens), and as an indicator of old-growth conditions. Early studies of standing dead trees applied standard and nonstandard FIA attributes to assess snag densities for wildlife habitat appraisal (McComb and others 1986a, 1986b; O'Brien and Moisen 1992; Ohmann and Bolsinger 1989; Ohmann and others 1994; Rudis 1988a, 1988b). One novel, early application used standing dead trees to predict coarse woody debris for biodiversity appraisal (McMinn and Hardt 1996).

Esthetics—Esthetics embody amenity valuation, visual penetration, and scenic beauty. Public interest groups, e.g., the Wilderness Society (Morton 1994), and users of public land often are concerned with esthetics and scenic beauty. Quantitative approaches incorporate FIA tree and plot information directly as models to link timber with nontraditional resource values, including scenic beauty (Buhyoff and others 1986; Rudis and others 1988a, 1988b). When used with timber-based profit-maximization modeling, these and other FIA tree- and plot-based models help estimate hypothetical amenity values (opportunity cost of timber revenue foregone).

Geographic context (GIS and satellite remote sensing)—Maps present basic information for assessing geographic context (Gedney and VanSickle 1979), and remote sensing using aerial photography has been an FIA tool since the program's inception. GIS applications began with the assembly of a multi-source database at the county level. One such database included FIA data assembled from county statistical reports. Known as the geoecology database (Olson and others 1980), this first-ever multidisciplinary effort spawned research uses beyond timber inventory, including the mapping of woody biomass (Delcourt and others 1981) and coterminous U.S. documentation of natural vegetation (Klopatek and others 1979).

The use of plot-based FIA information began with the availability of automated plotting and mapmaking technologies. An early example using approximate plot locations was the use of FIA data to illustrate the distribution of roadless forest areas (Rudis 1986). A decade later, scientists coupled plot-level GIS links with U.S. census data and FIA data to quantify forest resources in urban census tracts (Hershey and Birch 1996), as well as to examine potential timber resource impacts from urban population proximity (Barlow and others 1998).

Early use of satellite remote sensing and imaging technologies with GIS resulted in published statistics and mapped data for Alaska (LaBau and Winterberger 1988), Arizona (Born and Pearlberg 1987), Illinois (Iverson and Risser 1987), and Louisiana (Teuber 1987). Such use spread throughout the United States in the early 1990s (Powell and others 1993, Zhu 1994, Zhu and Evans 1994). Progress in remote sensing is covered in more detail elsewhere (Peterson and others 1999). Early efforts to examine the nontraditional attributes of forests included poststratification of FIA plot data with information from satellite imagery to assess the effects that streamside management zone regulation would have on timber supplies (Wu 1994).

Nearby nonforest influences—Proximity to roads, water, and urban or otherwise developed land, as well as sites with steep slopes or permanent saturation, may present economic or environmental barriers to timber management and harvest operations. FIA reports occasionally include information on some of these items, but routine inclusion varies widely throughout the United States.

In the early 1980s, several statewide assessments reported tabular information on forest area near nonforest land. Some of this information also appeared in focused special reports on adverse site conditions, such as road proximity and steep slopes (Phillips and Powell 1985), or to assess forest recreation opportunities (Rudis 1986). Some used terms like "operability" (Czaplewski and others 1986, Spencer and others 1986) and "timber availability" (May and LeDoux 1992), which had a single-discipline context. Resource- or discipline-neutral terms such as distance from (proximity to) roads, urban areas, and water bodies served multipurpose resource information needs. Urban influence studies in the East started at the county level (Brooks and Rowntree 1984) and in the West at the plot level to assess neighborhood context (Oswald 1986). Methods to identify urbanizing influences varied considerably, with many of the approaches using aerial photos, which were closely dependent on measuring the distance from field plots to variously defined urban areas. Later efforts involved GIS (see the section on geographic context for additional information). An early effort to assess streamside management zone distances involved coarse-scale georeferencing of FIA plots (Wu 1994).

Owner attitudes—The USDA Economic Research Service noted in 1976 that many of the then-current FIA survey reports for the Northeastern United States said little about the availability of private timber resources (Moyer and Daugherty 1976). In some States, the reports simply reported forest land area and volume in a single nonindustrial owner class approaching 90 percent of the sample.

Improved estimates pioneered in the Northeast used owner surveys—questionnaires stratified by the distribution of FIA forested plots (Kingsley 1975, 1976; Kingsley and Birch 1977; Kingsley and Finley 1975). This procedure eventually spread throughout the United States. For many years, the focus was on an owner's primary use or reason for owning land and questions about short-term harvest intentions. Multiple objectives and multiple-use benefits were ignored, however. Recent forest owner surveys have included separate queries about posting, hunting, and other secondary benefits (Leatherberry 2001a), and now include questions about multiple land-use objectives.

There currently are no efforts to use the FIA sample design to sample rural landowners not associated with forest land. This exclusion limits some forms of cross-disciplinary analysis and modeling, e.g., land used for public recreation, and forest-to-nonforest land conversion. A broader sample that includes owners associated with all land—not just forested land—could serve a number of purposes for stakeholders, such as to identify owner attitudes about reforestation, agroforestry operations (Christmas trees, nonwood forest products), and interest in tree cover while meeting desired agricultural crop, recreation, real estate, or wildlife objectives.

Range—Range is a term used to describe such land uses as agroforestry, livestock grazing, and wildlife browse or understory forage. A pioneering study to tally forage occurred in association with FIA surveys for southern pine stands. The survey goal was to assess opportunities to graze livestock and produce timber (Pearson and Sternitzke 1974). In some regions, scientists later developed ways to estimate vegetation structure and foliar cover by testing models that link FIA overstory measures with amount of forage (Cost 1984, Joyce and Baker 1987, Mitchell and others 1987, O'Brien and Van Hooser 1983, Popham and Baker 1987).

The first publication on livestock grazing statistics for forest land considering broad regions appeared in FIA forest resource reports for Alabama (Rudis and others 1984), California (Bartolome and Huntsinger 1986, Bolsinger 1988), and east Texas (Rudis 1988a). In Kansas, a special study compared FIA timber resources in grazed and ungrazed forests (Schmidt and Hansen 1998). Forest land with livestock grazing now appears standard in characterizing the regional mix of resource uses (Rudis 1998), and in tracking disturbances of forest land in the South (Rudis 1998, Schweitzer 2000).

Recreation opportunity and remote and roadless areas—FIA attributes were associated with recreation-use potential, and with pioneering efforts in South Carolina (Saunders 1979) and later in Alabama (Rudis 1983). The attributes "distance from roads" and "remote forests" continue to be a means of distinguishing primitive from developed recreational experiences (Rudis 1986). Other photointerpretation has been explored (Czaplewski and others 1986). Additional techniques using adjacent townships were incorporated for Minnesota (Freimund and others 1996, Jaakko Poeyry Consulting 1993b). FIA staff began measuring forest fragment size (area or extent of contiguous forest cover) as a surrogate for estimating eligibility for scale-dependent timber management assistance programs (Wells and others 1974), and later used it as a measure of remoteness, defacto wilderness, or primitive recreational opportunity (Rudis 1986).

Tropical inventories—With greater need for both conservation and multipurpose uses of forests on tropical islands, managers have special inventory information needs. Soils, rainfall, moisture, and agroforestry land-use classes represent critical classification attributes on tropical islands where there is little forest cover. As in the continental United States, early forest resource surveys in Puerto Rico and Hawaii focused on potential timber products, but rejected an examination by traditional land-use classes. Instead, surveyors subdivided tree cover into selected agroforestry classes such as coffee shade in Puerto Rico (Birdsey and Weaver 1982) and primary and secondary forest in Hawaii (Metcalf and others 1978). A few years later, FIA used a more holistic approach by first categorizing earth cover, and then subdividing cover into eight forest, three agroforest, and eight nonforest land-use and cover classes. For forest land, divisions in Pacific ecosystems typically included upland, palm, swamp, mangrove, atoll, plantation, and dwarf forest (Cole and others 1987, MacLean and others 1986). As on the continent, detailed measures were made of potential timber resources, and most efforts focused on woody biomass and woody species estimation (MacLean and others 1988, Petteys and others 1986).

Water quality (hydrology and soils)—Though perhaps not widely known, FIA staff referenced field-sampled locations to sample soils in selected regions. In cooperation with NRCS, soil measurements were included in the early 1980s surveys of Alaska (Larson and Mead 1983), New England (Ferwerda 1982, Okoye 1997), and Puerto Rico (Weaver and others 1987). In west Oklahoma, NRCS added FIA measurements to its land and soil surveys (Rosson 1995). In the Lake States for 1980s surveys, special studies of air pollution included soil information (David and others 1988). In connection with a statewide forest hydrology study for South Carolina (Dissmeyer 1979), FIA inventory procedures included measurements of soil-associated attributes such as erosion potential, litter depth, and soil texture. Several of the soil-associated attributes were included in the 1976 survey of South Carolina and—with some variation—continued for a number of years in other Southeastern States[14].

Vegetative habitat typing—Occurrence of a species at a particular location suggests conditions suited to its growth. Similarly, a group of overstory tree species at a given location helps categorize its forest community type and potential wood productivity. Occurrences of nontree species also serve the same role, but reports that document use of these data in FIA surveys have been sporadic. In the West, nontree species accounted for, and continue to reflect, potential timber (site) productivity when no trees are present (MacLean and Bolsinger 1973). In Utah, FIA field crews classify vegetative habitat class at sampled locations by both predominant overstory and understory plant species (O'Brien 1999). For Wisconsin, a similar approach recently was used in that State's most recent forest survey (Kotar 1999, Kotar and others 1999).

A pilot study begun in the Great Lakes area was scheduled to formally classify dominant tree overstory, tree sapling, and site-condition data into ecological productivity classes[15] (personal communication, Don Faber-Langendoen, State University of New York, College of Environmental Science and Forestry, November 2001). The long-term goal is to integrate FIA timber-based forest types with an interagency and NGO-sponsored ecological classification scheme, known collectively as the U.S. National Vegetation Classification System (Grossman and others 1998, Weakley and others 1998).

Wildlife—Early efforts to assess wildlife habitat incorporated a deer browse inventory around 1960. This pioneering cross-disciplinary research thrust began with pilot testing (Ehrenreich and Murphy 1962, Moore and others 1960), and then was followed by regional estimation of deer browse for north Georgia (Ripley and McClure 1963). A decade later, FIA surveys used browse inventories in New Hampshire (Barnes 1975) and southwest Louisiana (Pearson and Sternitzke 1976). FIA surveys in the Southeast also used vegetation structure attributes to assess the status of wildlife habitat (Cost 1979, Hamel and others 1986). Habitat assessments showed promise for such forest-dependent species as the red-cockaded woodpecker (Lennartz and McClure 1979) and woodcock (Cushwa and others 1977). Later, FIA conducted assessments in other regions and for other wildlife species, including black bear, goshawk, and the Mexican spotted owl. Another early effort used periodic FIA data summaries to prepare numerical indices for addressing habitat trends as part of generic bird habitat appraisals (Graber and Graber 1976). Scientists also developed models to project trends in wildlife habitat (Boyce and Cost 1978).

Approaches to Comprehensive Assessments

Several approaches may be used in a comprehensive assessment of forest resources. These range from a description and analysis of forest resources: (1) from a single disciplinary perspective involving only FIA data-sets and written with a single objective, e.g., presentation of the latest survey statistics, or addressing a singular issue, to (2) a complete synthesis of analyses from an array of disciplinary perspectives, involving both FIA and other data-sets, to address a range of natural resource and socioeconomic issues. For ease of discussion and simplicity, I categorized the approaches first by discipline, second by data used, and third by purpose of the report. I coded these approaches as representing single (S) or multiple (M) perspective(s) or discipline(s), data-set(s), and purpose(s), and cite an example for each approach in table 1.

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[14] U.S. Department of Agriculture, Forest Service. 1982. Field instructions for the Southeast. 120 p. On file with: USDA Forest Service, Southern Research Station, FIA Unit, 4700 Old Kingston Pike, Knoxville, TN 37919.

[15] Personal communication. 2001. Don Faber-Langendoen, Adjunct Professor and Senior Ecologist, State University of New York, College of Environmental Science and Forestry, 448 Illick Hall, 1 Forestry Drive, Syracuse, NY 13210.

Table 1—Range of approaches to reporting of FIA survey results by perspective or discipline, data sources used, purpose of the report, and examples

Type	Perspective or discipline	Data sources used	Purpose(s) of the report	Example report[a] and reference
SSS	Single	FIA surveys	Information supplied to a **single-** discipline target audience, with data from a **single** source, and presented for a **single** purpose—report of new survey findings	**Forest Resources of Louisiana** (Rosson and others 1988) primarily reported the status and change in timber resources since prior FIA surveys.
MSS	Multi-disciplinary teams	Largely FIA surveys	Examination by a **multidisciplinary** team of a **single** data source, for a **single** purpose for which the data are appropriate	**Patterns and Trends of Early Successional Forests in the Eastern United States** (Trani and others 2001) used timberland statistics to assess wildlife habitat.
MSM	Multiple	Largely FIA surveys	Information supplied to a broad, **multidiscipline** audience, with data from a **single** source, and presented for **multiple** purposes	**Comprehensive Inventory of Utah's Forest Resources, 1993** (O'Brien 1999) references ecological community types for a variety of user information needs.
SSM	Single	Largely FIA surveys	Collection of selected **single** discipline perspectives about data from a **single** source, and presented for **multiple** purposes	Majority of **Proceedings of the Symposium on Arkansas Forests: A Conference on the Results of the Recent Forest Survey of Arkansas** (Guldin 2001)
SMS	Single	FIA surveys and other data sources	Examination from **single** discipline perspectives with data from **multiple** sources, and presented for a **single** purpose	**Linking STATSGO and FIA Data for Spatial Analysis of Land Carbon Densities** (Xu and Pristley 2000)
MMS Type 1—Planning reports	Multi-disciplinary teams	FIA surveys and other data sources	Examination by **multiple** or cross-disciplinary teams with data from **multiple** sources for a **single** purpose	**Sustainable Forest Management: Policy, Planning and Practice: Forum Report** (Great Lakes Forest Alliance 2000)
MMS Type 2—Research reports	Multi-disciplinary teams	FIA surveys and other data sources	Examination by **multiple** or cross-disciplinary teams with data from **multiple** sources for a **single** purpose	Multidisciplinary research reports from a generic environmental impact statement study of timber harvesting and forest management in Minnesota (Jaakko Poeyry Consulting, Inc. 1992a, 1992b, 1992c, 1992d, 1992e, 1992f, 1992g, 1993a, 1993b).
SMM	Single	Array of data sources	Collection of selected **single** discipline perspectives, with data from **multiple** sources for **multiple** purposes	**Integrated Tools for Natural Resources Inventories in the 21st Century: Proceedings of the IUFRO Conference** (Hansen and Burk 2000)
MMM	Multi-disciplinary synthesis	Array of data sources	A synthesis of examinations from **multiple** discipline perspectives, using **multiple** data sets, and serving **multiple** purposes	**Summary Technical Report** (Pirani and Yaro 1993) for the analysis of selected resources for the New York-New Jersey Highlands regional study

[a] In bold if provided.

The following are details about each of these approaches:

SSS—Single discipline or perspective, single source data, and single purpose. Typically, an SSS report describes findings from the most recent FIA survey. Objectives selected are those that the FIA data were initially designed to address. Although additional data may be available from other sources, findings are often limited to the single set of data. In other words, description and analysis are data-driven or issue-driven, rather than driven by the need to conduct a thorough assessment from multiple points-of-view. Reports, tables, charts, and other output match terms understandable to one discipline and a single target audience. Issues addressed are about resources of interest to a particular audience, e.g., timber (Rosson and others 1988) and wildlife (Brooks and others 1986). Often there is little incorporation of other perspectives or involvement by other stakeholders in determination of the analysis needed or in a review of the manuscript. A literature search of associated scientific information often is uncommon in USDA FS resource bulletin series. This approach yields the lowest form of integration; a single disciplinary perspective and FIA data-sets determine the amount and sufficiency of information included in such reports.

MSS—Multidiscipline team perspective, single source data, and single purpose. This approach uses FIA data and involves multiple disciplinary perspectives for a single purpose. There is limited involvement in the choice of objectives by other disciplines. Restrictions on data utility from multidisciplinary teams often rest with existing definitions and categories of land use and earth cover. Approaches to estimation of nonforest land area with trees, reserved land, woodland, and timberland with and without livestock grazing are inconsistent or nonexistent for some States, which limits a number of assessments that cross disciplinary, political, and resource use boundaries. Historically, problems between a land-based resource inventory and its utility to address other needs may revolve around developing a consensus between land use and land cover (Powell 1982).

Between the 1980s and early 1990s, four of six FIA survey regions began quantifying land cover in addition to land-use classes, e.g., separate land uses for pastured forest land, urban forest land, and nonforest land with and without trees. Examples included Christmas tree operations, orchards, pastureland with trees, urban land with trees. Occasionally, special studies used these hybrid land cover and land use classes to quantify other information needs, e.g., urban vegetation (Geron and others 1995). Detailed land class (nonforest-land uses such as cropland, pastureland, and water; and hybrid land cover and land use) estimates appeared in some forest resource reports, but none appeared nationally in standardized form.

Broad land-use classes are standardized and have been used to map the neighborhood context surrounding forest land (Rudis 2001). However, hybrid and more detailed earth-cover and land-use classes remain a local option (U.S. Department of Agriculture, Forest Service 1999a, 2001b, 2001c, 2001d). FIA surveys use different land-cover and land-use classes to account for locally important uses, such as agroforestry production systems in the tropics (MacLean and others 1986). Elsewhere, FIA units have established local standards to assess a broad range of land uses and incorporate land cover classes desired by other disciplinary perspectives (Rudis 1993).

A study of early successional habitat (Trani and others 2001) is a recent example that addresses a resource other than timber. Although the team was interdisciplinary, the available data were restricted to timberland because such estimates were consistent across the study's FIA regions for the particular objective—assessment of the status and trends in early successional habitat. Timberland formed 98 percent of the forested habitat of concern, so authors felt that ignoring the other detailed land classes was not significant.

MSM—Multiple discipline or perspective, single source data, and multiple purposes. This approach is driven by the need to assess findings from the most recent survey. However, unlike SSS or SSM approaches, it includes other objectives because results serve a varied audience. In some cases, SSS authors recast FIA data in terms relevant to other disciplines. It often includes descriptive analytical reports that feature multiple facets of the data collected. Some of these include efforts for the North (Brooks and others 1993), South (Rudis 1998, Rudis 2001), and interior West (O'Brien 1999). Consultation with other natural resource experts may precede the design of the report, issues addressed, and attributes featured.

SSM—A collection of single-discipline perspectives, single source data, and multiple purposes. This approach takes the form of collected works with multiple objectives, where individuals with expertise in various disciplines, e.g., economics, forest hydrology, recreation and tourism, silviculture, timber products, wildlife, are invited or assigned to discuss findings directly associated with results of a recent FIA inventory. In most cases, participants have raw or preliminary FIA data to examine prior to the meeting. Recent efforts have included collected works for meetings associated with the States of Alabama (Jones 1991), Arkansas (Guldin 2001), New York (Abrahamson and others 1996), and Oregon (Lettman 1988).

Such meetings and the reports they generate serve as communication outlets for managers, NGOs, practitioners, planners, and others who may not have stated publicly or published their opinions regarding FIA data uses or associated data needs. Often, however, participants are given little time, and little, if any, additional funding to provide more than a cursory overview of findings, let alone a comprehensive cross-disciplinary synthesis of the data or even an in-depth discussion of issues relevant to one discipline. Nonetheless, the presentations do provide valuable insight into the perspectives and interests of contributors. Such forums provide short-term communication within a cross-disciplinary audience or readership. Occasional, well-prepared presentations yield credible syntheses of disparate concepts or a disciplinary analytical process from two or more disciplines, which foster cross-disciplinary communication.

The ideal situation would involve (1) including representatives from other disciplines on the inventory staff, (2) greater participation through funding for program interests, and (3) direct involvement of Federal, State, and private groups from a variety of disciplines (national forest, State forestry, game and fish, conservation commission, timber industry, planning staffs, and NGOs) in the analysis of collected data. Scientists and administrators may initiate these approaches, e.g., in the late 1970s for South Carolina (McClure and others 1979), but fail to establish the needed long-term infrastructure. Problems common to multidisciplinary efforts—limited coordination of analysis among competing agencies and resource interests, incompatible priorities and perceived responsibilities, and a limited administrative infrastructure (Rudis 1993)—make such approaches difficult to maintain.

Since 1999, State forestry agencies have become direct partners in the data-collection effort, with shared responsibilities and funding for FIA activities. They have raised many questions and have served on committees that determine attributes and procedures. Though the process is in an early stage of development, the interagency infrastructure may well alter the degree of cross-disciplinary involvement and influence by special interest groups in subsequent analysis.

SMS—Single discipline or perspective, multiple data sources, and single purpose. This approach commonly integrates data from other sources to address a single objective. Information from research journal articles as well as articles in focused conference proceedings may be included. These articles combine FIA data with separate, independent FIA estimates. Typically, information is required at a scale appropriate to the goal of the study, e.g., regional habitat estimates of black bear, red-cockaded woodpecker, and spotted owl; State-level owner-preference surveys; stand-level scenic beauty; and county-level U.S. Census surveys. Recent study goals have included regional biogenic emissions (Wiedinmyer and others 2000), soils and carbon sequestration (Xu and Pristley 2000), and satellite image-scaled estimates combined with forest structure, slope, elevation and moisture conditions from FIA plot measurements (Frescino and others 2001).

MMS—Multiple disciplines or perspectives, multiple data sources, and single purpose. This is a team-based assessment focused on a particular issue or geographic region, or both. The team assigns itself one large task. One or more individuals with perceived expertise in a particular discipline assume, or are assigned to, subcategories of the larger task. Tasks are issue-driven rather than data-driven. Regardless of data that might be available, team leaders organize analytical steps and workflow schedules to ensure that the team addresses all facets of the issue in a timely manner. For a variety of reasons, not all appropriate FIA data may be used. These include lack of expertise in applying the data to cross-disciplinary issues; incompatible priorities, perceived responsibilities, and disciplinary assumptions; and inconsistencies in measurement and their resolution across FIA boundaries (Rudis 1993).

MMS Type 1—An MMS assessment that closely resembles a working document for planning and may include maps, general guidelines, and narrative statements not rigorously ascribed to a particular scientific source or research document. The earliest report of this type grew from desire to obtain a "comprehensive core of data and analyses to guide policy making on all ownerships, including Federal, State, and private lands" by the California Department of Forestry and Fire Protection. The goal was to develop a "program to assess and anticipate the changing role of natural resource lands in the context of the State as a whole" (Ewing and others 1988). In California, the issue revolved around the conflict between rangeland and forest land among public land managers, rural farmers, and representatives of other private interests.

A committee composed of individuals representing both private and public agency interest groups initiated a similar assessment in New Hampshire some years later. New Hampshire's issues focused on "forest sustainability and a more ecological approach to forestry . . . the role of the forest-based economy . . . the relationship between forests, people and forest industries . . . the complex task of balancing society's interests in preserving public values in forest land . . . and protecting personal and property rights" (Forest Resources Plan Steering Committee 1996).

Other such assessments included regional, issue-focused reports, such as those for the Great Lakes (Great Lakes Forest Alliance 2000), New York-New Jersey Highlands (Michaels and others 1992), and Northern Forest Lands (Harper and others 1990). In all of those assessments, traditional FIA data provided background material, typically describing the historic and present-day status of the timber resource. Nontraditional data served as supplementary, broad regional estimates of particular interest. These included general wildlife habitat statistics for the Northern Forest Lands study (Watson 1994), and supplementary ownership information for the New York-New Jersey Highlands studies (Michaels and others 1992).

MMS Type 2—MMS assessments that resemble technical research articles, with close attention to scientific sources of information. Often there is a concern about a major regional issue such as the perceived intensification of wood production—the development of chip mills for processing of low-quality hardwoods, extensive establishment of pine plantations, or conversion of oak-pine stands to pure pine. Forecasting with timber growth models, other resource projection models, U.S. census statistics, and other economic indicators are formally associated with ground-based inventory data when possible to evaluate various facets of the assessment.

One such case involved the State of Minnesota, which commissioned a study, now known as a Generic Environmental Impact Statement (GEIS) (Jaakko Poeyry Consulting 1994), to investigate timber harvesting and forest management. This unique effort funded a number of reports by a private consulting firm. The firm provided limited release of the documents, distributing them to State agencies and the public for a nominal cost, then later released them on the Web. Reports focused on forest area and owner trends (Jaakko Poeyry Consulting 1992f), biodiversity (Jaakko Poeyry Consulting 1992a), damage to trees or forest health (Jaakko Poeyry Consulting 1992c), economics (Jaakko Poeyry Consulting 1992b), recreation and esthetics (Jaakko Poeyry Consulting 1993b), soils (Jaakko Poeyry Consulting 1992d), timber resources (Jaakko Poeyry Consulting 1992e), water and fisheries (Jaakko Poeyry Consulting 1992g), and wildlife (Jaakko Poeyry Consulting 1993a). A final report abstracted the results of individual, discipline-specific studies and synthesized results (Jaakko Poeyry Consulting 1994). Scientists affiliated with these studies later reported portions of the results in Ph.D. dissertations or more widely read outlets, i.e., journal articles and technical proceedings (Anderson and others 1992, Freimund 1994, Freimund and others 1996, Grigal and Bates 1997, Kapple 1995, Rose and others 1992).

Other examples include broad regional, multi-year studies conducted to address regional issues in the Southern Appalachians (Southern Appalachian Man and the Biosphere 1996b), Interior Columbia Basin (Quigley and others 1996), and Ouachita-Ozark Highlands (U.S. Department of Agriculture, Forest Service 1999b). The role and contribution of FIA to the assessment varied with funding and issues endemic to the regions under study.

The MMS Type 2 assessments often have substantial funds to support the logistics of data assembly, modeling, and analysis but often draw upon existing data to make inferences and model associations with other data. FIA data most often are used to categorize forest area by ownership and stand-diameter classes on private forest land. They also provide county level estimates of total forest land, current timber volume, growth, harvest, mortality, and susceptibility to tree pests. Issues that require more than timber production statistics, such as "biodiversity, soil depletion and productivity, certain seral stages, and [perceived] loss of . . . nonrenewable forest resources" (Quigley and others 1996), remain unresolved.

FIA data that could have been used to resolve some of the issues, such as detailed traditional and nontraditional FIA measurements (U.S. Department of Agriculture, Forest Service 2001c), were not collected in a standard way across the entire assessment region or were inadequately developed for scientific analysis. Southern Appalachian studies referred primarily to specialized data analyzed by selected disciplines (Herman 1996). Interior Columbia Basin studies referred only to the standardized national summary of traditional data (Powell and others 1993). Other FIA data may have been included in the assessment database for future research use, but the final technical assessment contains no details. In many such cases, available FIA data are dwarfed by other information already standardized and readily useable by a variety of disciplines, e.g., in the West by forest management inventories of the National Forest System, and in the East by the USDA NRCS National Resources Inventory (NRI).

SMM—Single discipline or perspective, multiple data sources, and multiple purposes. This assessment approach usually uses a narrowly-focused session or symposium proceedings resulting from conferences concerned with inventory measurements. Reports occasionally include journal articles. Annotation of nontraditional and novel FIA data uses and techniques prior to 1990 appear in a workshop "Progress with integrating multiple value objectives into broad-scale forest inventories," held in Syracuse, NY, August 2, 1989, as part of a state-of-the-art conference on forest inventory methodology (LaBau and Cunia 1990).

Occasionally, there is coordination among participants at such conferences. Participants involved with FIA-associated data often sponsor sessions or workshops at many of the larger international conferences. Lately, biometricians have taken the lead in organizing a formal symposium series focused just on FIA-associated topics; and two had been completed as of July 2001—for the years 1999 (McRoberts and others 2000) and 2000 (Reams and others 2001).

These conferences have documented developments in measurement tools, statistical analysis techniques, and data uses. Titles attached to these conferences reflect their focus: integrated inventories (Lund and others 1978), forest resource inventories (Frayer 1979), wildlife habitat inventories (Cushwa and others 1979), in-place resource inventories (Brann and others 1982), renewable resource inventories (Bell and Atterbury 1983), forest inventory methodology (LaBau and Cunia 1990), and global natural resource monitoring and assessments (Lund and Preto 1990). More recently, one focused on forest ecosystem resource surveys in North America, and many topics were relevant to tropical forest assessments (Aguirre-Bravo and Franco 1999).

Coordinated sessions at larger conferences result in reports that form substantial bodies of knowledge about selected issues. The latest major international conference (Hansen and Burk 2000) used the theme "integrated inventory tools," and included sessions on natural resource inventory design, analysis, and management applications; measurement consistency issues; data management; GIS and remote sensing applications; forest growth model interfaces; and special purpose inventories and applications.

MMM—Multidisciplinary team(s) or multiple perspectives, multiple data sources, and multiple purposes. This assessment approach commonly produces a report synthesizing several in-depth reports or chapters with differing perspectives, as well as data examined in detail by others. It is a summary document representing highlights of findings, common threads, and concepts. In its simplest form, such an approach is akin to a synthesis of papers presented at a conference involving disparate studies and data-sets. Length and depth may vary from a brief synthesis, such as an impromptu summation of presentations, to a more deliberate integration of disparate concepts. An example of the former was done for Arkansas (Blackmon 2001) and of the latter for the New York-New Jersey Highlands (Pirani and Yaro 1993). Well-funded multidisciplinary teams integrate their findings more fully, sometimes with additional interdisciplinary analysis, such as is included in the Northwest Forest plan (Haynes and Perez 2000), the 1989 RPA assessment (U.S. Department of Agriculture, Forest Service 1990), and the Southern Appalachian assessment (Southern Appalachian Man and the Biosphere 1996a).

Progress Toward Multipurpose Utility

Dual and multiple land uses are the norm for most arable land in the United States. Traditional single-resource classification simplifies these complexities, making possible tabular reports and assessments. The estimates produced yield coarse-scaled resource assessments. Such estimates are questionable if there are substantial areas with mixed forest and nonforest-land uses, such as forest land or significant commercial wood products in agriculture- or urban-dominated neighborhoods.

The literature review suggests three approaches. The first is a field method of documenting uses on a sampled plot. The second method documents a plot's proximity to dominating nonforest-land uses. The third method surveys nonindustrial private owners for information about their land use and makes assumptions about uses affiliated with industrial and public ownership. The three approaches use different scales of measurement; but in every case, the assessment proceeds following estimation of the multiple land-use probabilities for a sampled plot and the resources they represent. Although these approaches provide credible data for planning at predefined scales, the accuracy of assigned probabilities, and analyses at other measurement scales, are of concern.

For example, FIA plot-based indices of livestock grazing in forested areas corroborate findings from an examination of the surrounding neighborhood. In the South, livestock grazing on forest land occurs in a few ecological provinces, primarily in pasture-dominated landscapes (Rudis 1998). Grazing on forest land also occurs in the California Sierra Mountains (Bartolome and Huntsinger 1986) and in the Intermountain West. The same is true for forests dominated by urban influences. Urban uses of forest land are important components in estimation of resources, particularly in coastal portions of the United States (Dwyer and others 2000).

Because it takes so long to inventory a region and monitor changes, past designers of the FIA program are occasionally fortunate in providing for unanticipated data needs. For example, Pacific yew, a noncommercial species, was discovered in the 1980s to have anticancer properties. Fortuitously, FIA program staff were able to draw information from an already collected, larger inventory of otherwise noncommercial species, and to provide estimates of the range and extent of the Pacific yew (Bolsinger and Jaramillo 1990).

The historic design of the survey does not always serve current needs, however. Definitions of forest land established in earlier decades may not always represent current uses, such as season-specific grazing on forest land and urban development within forest landscapes, or match current measurement technology, e.g., satellite imagery. On private land, detailed timber information from FIA surveys may be ancillary to a more widely encompassing, standardized inventory, e.g., the NRCS-NRI. In public-dominated areas of the West, until recently, the FIA sample design did not extend to National Forest System land.

Satellite imagery of forest cover types also competes with traditional FIA field-collected data. The U.S. Geologic Service's Land Use and Land Cover, the U.S. Fish and Wildlife Service's Gap survey, as well as other well-funded Federal and State earth-cover inventory programs, serve broader audiences because the resulting scale of information products may be closer to perceived management issues. Many users of FIA data have questioned the spatial precision and error estimates associated with the program's widely spaced samples. Landsat and other satellite-based inventories may provide products more suited to the needs of a variety of disciplines. The advantage of satellite imagery is that (1) the data management and organization are flexible enough to accommodate changing needs, e.g., data categories and elements can be reassembled to suit other disciplinary assumptions, and (2) the data have logical spatial and temporal associations with other geographic information important to a comprehensive assessment.

Nevertheless, advances in GIS technologies have made it possible to readily visualize FIA data in geographic context—not only by scientists but also by decision-makers and advocacy groups in a variety of disciplines. A decade ago, Rudis (1991) stated that "integration of

FIA information with other land use data should provide users with an improved information database with which to test hypotheses and become better informed about regional impacts." Since that time, spatially oriented data retrievals, analysis, and linkages with other data-sets have occurred, and more than 70 citations have referenced FIA data. Such studies commonly refer to geography related hypotheses, e.g., about the distribution of forested ecosystems, their associated characteristics, habitats for forest-dwelling species, regional ecological landscape dynamics, land-use practices, and temporal trends. More than half of these have been published in just the past five years. Using GIS, links between FIA data and satellite imagery are also more common in a number of recent regional modeling efforts, such as global climate change monitoring and air pollution assessment.

Synthesis

Given the array of approaches now used, it is safe to say that the time has arrived for a disciplined, strategic inventory of associated attributes, and the incorporation of other relevant data and analysis. However one may view the inclusion of inventory attributes or analytical techniques to address a particular issue, it is important to weigh potential benefits against their potential cost.

The sheer volume of citations in nontraditional subject areas [air pollution, biomass, dead wood, esthetics, geographic context (GIS and satellite remote sensing), nearby nonforest influences, operability, owner attitudes, range (agroforestry, browse, livestock use, and understory forage), recreation opportunities, tropical inventories, water quality (erosion, hydrology, soils), vegetative habitat typing, and wildlife] is staggering. Scientists from a wide range of disciplines have developed analytical techniques, novel measurements, and models to characterize other resources and address a variety of issues.

Relating some of these specialized FIA data and analyses to nationally important, comprehensive assessments occurs periodically with RPA appraisals. Examples include biomass (Cost and others 1990) and urban forests (Dwyer and others 2000). Integration of a unit of timber with a unit of one or more other resources has yet to be achieved, however. Efforts to directly link biomass, urban forests, and other subject areas with timber resource supplies, forest management, and land-use policies have been hampered by inconsistencies among data collected and their sources. Establishment of minimal standards for a comprehensive as well as cost-effective assessment of forest resources may be required for State and regional analyses. Adaptation and refinement of procedures probably will be necessary if the data are to be used in future national RPA appraisals.

With the exception of biomass and urban forest attributes—and perhaps a few others—many field observations and data uses remain provincially rather than nationally applicable and poorly coordinated among regions. Some specialized field observations may not be cost effective to inventory nationally. These are likely to remain important in studies for modeling or a region-specific assessment such as special forest products (e.g., bear grass in the Pacific Northwest), invasive species (e.g., *Melaleuca* spp., a problematic nonnative invasive in Florida) and management practices unique to specific portions of the country. Retention of collective knowledge about specialized data and the unique resource uses in an area become problems whenever decisions are made not to consider them in national assessments.

Specialized data of the FIA survey appear to have been fully used when they: (1) are consistent across spatial and temporal scales important to the geographic region and questions being addressed; (2) are well-documented and stored in a form suited to available analytical techniques, or can be made so in a timely fashion to suit the timetable of the assessment; (3) lend themselves to data management and organization that are flexible enough to accommodate changing needs; (4) can be reassembled without bias to suit other disciplinary assumptions; and (5) have logical spatial and temporal associations with other data important to a comprehensive assessment, e.g., satellite imagery and economic and social surveys. More rapid progress towards comprehensive assessments can be achieved if all specialized FIA data met these criteria.

If the goal of comprehensive assessment of the forest resource is to integrate analysis from all relevant disciplinary and regional perspectives and to synthesize findings, then the FIA program organization should reflect those goals at all levels. Convergence of an array of common attributes and the analysis of protocols of comprehensive assessment will be achieved only by clarification and refinement of an evolving knowledge base. Maintenance and support for a central depository of documented results and use by both data analysts and designers of data collection procedures may ensure that progress.

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Appendix

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Reported is a compilation of over 1,400 literature citations and a review of selected subjects that constitute an integrated knowledge base for comprehensive forest resource assessments with regional, field sample-based forest inventory data. The focus of the report is on nontraditional and novel technical uses tied to the U.S. Department of Agriculture, Forest Service, Forest Inventory and Analysis (FIA) field surveys published or in press between 1976 and July 2001. Briefly noted are pioneering studies that link FIA data with air pollution, biomass, dead wood, esthetics, geographic context (geographic information systems and satellite remote sensing), nearby nonforest influences (operability, roads), owner attitudes, range (agroforestry and livestock use), recreation, tropical inventories, water quality (soils and hydrology), vegetative habitat typing, and wildlife. All known M.S. theses and Ph.D. dissertations associated with FIA data since 1976 are included, regardless of subject matter. Also incorporated are citations of collected works concerning integrated assessments and multidisciplinary surveys and representative citations associated with economics, global climate change, remote sensing, sampling designs, tropical forest resources, and traditional timber resource assessments. The literature review suggests assessments are "comprehensive" for issues in selected regions and chosen resources. Multidiscipline involvement, multipurpose uses of nontraditional data, and analysis of resources other than timber are variable. Nontraditional measurements and models, with some exceptions, have been provincially, rather than nationally, applicable and not well coordinated among regions. Recommended are ways to accelerate progress toward comprehensive assessments and cost-effective multipurpose uses.

Keywords: Bibliography, ecological inventories, forest inventory, hydrology, interdisciplinary studies, integrated assessments, monitoring, natural resource planning, range, recreation, timber, water, wildlife habitat.