

DOCUMENT RESUME

ED 226 983

SE 040 724

AUTHOR Schwab, Judith L., Ed.
 TITLE Social Sciences in Forestry. A Current Selected Bibliography, No. 59. Cumulative Author Index.
 INSTITUTION Virginia Polytechnic Inst. and State Univ., Blacksburg. Div. of Forestry and Wildlife Resources.
 SPONS AGENCY Forest Service (DOA), Washington, D.C.
 PUB DATE Oct 82
 NOTE 84p.
 PUB TYPE Reference Materials - Bibliographies (131) -- Collected Works - Serials (022)
 JOURNAL CIT Social Sciences in Forestry; n59-Oct 1982.
 EDRS PRICE MF01/PC04 Plus Postage.
 DESCRIPTORS Business; Conservation (Environment); Economics; *Forestry; *Lumber Industry; *Natural Resources; *Publications; Resource Materials; *Social Science Research; *Social Sciences

ABSTRACT

Provided in this document is a bibliography of selected materials addressing the interface between forestry and the social sciences. Materials include articles appearing in United States and foreign professional journals, bibliographies, conference proceedings, completed theses/dissertations, and other types of publications. A subject-matter classification scheme, in outline format, is provided at the beginning of the document. Entries (numbered 2584-2966) are listed alphabetically by author according to the topics indicated in this scheme. Major topic areas include social science applied to: (1) forestry at large; (2) forestry's productive agents; (3) forest production; (4) manufacturing; and (5) marketing, trade, and demand for forest output. Each entry includes citation number, author(s), title, source, year, number of pages, and a code related to specific sections in the subject-matter classification scheme. In addition, if the publication is not in English, the language used is indicated. Brief annotations are provided for most entries. A cumulative author index for 1982 is included, with reference to citation number. Citations 1753-2169 appear in issue 57 (February 1982), 2170-2583 appear in issue 58 (June 1982), and 1584-2966 appear in issue 59 (October 1982). (JN)

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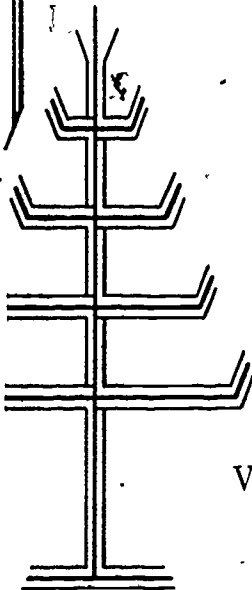
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OCTOBER 1982

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With support from the United States Department of
Agriculture, Forest Service

SOCIAL SCIENCES IN FORESTRY is published three times a year by the Department of Forestry, School of Forestry and Wildlife Resources, Virginia Polytechnic Institute and State University, Blacksburg, Virginia 24061, USA. The February issue contains a special appendix of theses and dissertations in progress, the June issue contains a subject index, and the October issue provides a cumulative author index for the year. Subscription is free upon request. Copies of material cited cannot be provided by the editor.

SOCIAL SCIENCES IN FORESTRY

Subject-Matter Classification Scheme

Note: This outline is regarded as working for the most part from the general to the specific. Material covering two or more sections of this outline is classified in the most general of these sections. Material which is classifiable in any of two or more sections is classified in the most specific of these sections. *Asterisks mark those subjects which are not represented in this issue.

4. SOCIAL SCIENCE APPLIED TO FORESTRY AT LARGE

A. General principles, scope, content, method

B. History, status, prospects, of forestry in an area, society in an area (This section includes material on forest resources alone, as opposed to that on consumer or intermediate resources alone, for which see appropriate sections.)

- *1. General
- 2. United States, Canada
- 3. Other north-temperate nations
- 4. South-temperate nations
- 5. Nations in lower latitudes

C. Law, politics, policy, plan, program, and their administration

D. Other influences

1. Taxation

- a. General
- b. Property, general and special; severance; lieu payment
- c. Income, inheritance, other

2. Valuation (See also IIIA5i)

3. Insurance

4. Social interest, value system, custom, folklore, culture

*5. Characteristics of the individual

6. Public relations, other

E. Research (For research on specific topics, see those topics.)

F. Professional and subprofessional affairs, education, employment of foresters

G. Social and economic development (See also IB)

H. Environmental concern

II. APPLIED TO FORESTRY'S PRODUCTIVE AGENTS
(See also the individual operation or type of output in III, IV, V)

A. Labor (Some material on labor will be found in IF, IV)

1. General, employment, demand
- *2. Supply, union
3. Wage, cost hours, productivity, technology, training, return, benefit
4. Working condition, turnover, absenteeism, safety, insurance
- *5. Characteristics of the worker

B. Owner, ownership, manager, entrepreneur, holding (See also IC, IIC3)

1. General
2. Public

- *a. General
 - b. Federal, central
 - c. Regional, local

3. Private

- a. General
- b. Industrial
- c. Nonindustrial

C. Land

- *1. Context of supply, requirement, etc.
2. Description, use trend and status, interpreted description
3. Management, use prospect and plan, planning, marketing, tenure
- *4. Research method

D. Capital

1. General, investment, interest, finance

(For investment in forest production, see III E; for that in manufacturing, see IVA4)

*2. Credit

III. APPLIED TO FOREST PRODUCTION (See also IIB, C)

A. Production including nontimber commodities and services

1. General, supply, multipurpose management
2. Christmas trees, greens
3. Range and livestock
- *4. Naval stores, maple product
5. Recreation
 - a. General
 - *b. Research
 - c. Decision making, planning, policy, law
 - d. Demand, consumer, market
 - e. Parks and wilderness areas
 - *f. Interpretation
 - g. Aesthetic values
 - h. Consumer activities such as driving, walking, camping, etc.
 - i. Valuation
- *6. Water, soil, watershed management, shelterbelts
7. Wildlife, hunting, fishing
8. Urban forestry

B. Production chiefly of timber

1. General, supply
- *2. Soil, site, site improvement
- *3. Tree regeneration and improvement; plantation
- *4. Intermediate cutting, pruning, stand improvement
5. Harvest cutting, rotation, cutting cycle, stocking, regulation, allowable cut
(For harvesting treated as engineering, see IVB)

*C. Roads, other forest-management transportation
(For transportation in harvesting, see IVB4; in manufacturing and marketing, VD)

D. Damage and protection

1. From fire
- *2. Prescribed burning
3. From insects
4. From other agencies

(For water damage and soil erosion, see IIIA6)

- E. Decision making, planning, investment, accounting, inventorying
(For investment in general, see IID1)

IV. APPLIED TO MANUFACTURING

(For material on forestry in general, including forest land resources, see IB)

A. The industry in general

1. Status and trend

- a. General
- b. United States, Canada
- c. Other north-temperate nations
- *d. South-temperate nations
- e. Nations in lower latitudes

2. Directory

(Includes those covering specific branches of industry.)

*3. History

- 4. Decision making, planning, investment, accounting, inventorying
(For a specific branch of industry, see that branch, "Operation of firm"; for investment in general, see IID1)

B. Timber-harvesting industry

(Includes roundwood in general; for specific types, see IVC; "raw material." For harvesting as silviculture, see IIIB4, 5)

*1. Status and trend

2. Operation of firm

3. Utilization of the stand or tree

(For utilization of a specific product, see the branch of industry in question.)

*a. General

*b. Logging residue and its disposal

- *4. Transportation (Skidding, yarding, loading, hauling to mill.
For transportation in forest management, see IIIC; in manufacturing and marketing, see VD)

C. Wood-using industry

1. Lumber, allied product, pallet

a. Industry status and trend

- *b. Production, consumption, stocks, other statistics
(For sawtimber, see IB, IVB; for sawlogs, see IVC1d)
- *c. Operation of firm
- d. Raw material

2. Pulp, paper, board

- a. Industry status and trend
- b. Operation of firm
- c. Raw material
- *d. By-products

3. Veneer, plywood, panel

- a. Industry status and trend
- b. Operation of firm
- *c. Raw material

- *4. Bark, chips other residue
(See also IVB3 and the industry branch in question, "Operation of firm.")

*5. Furniture

*6. Particleboard, hardboard, fibreboard, flakeboard

7. Construction

*8. Charcoal, fuelwood, other combustibles; energy

*9. Other wood-using industry (including pole, piling, post, mine timber, railway tie)

D. Other forest industry

*1. Decorative product

*2. Naval stores

*3. Maple product

4. Other

V. APPLIED TO MARKETING, TRADE, DEMAND FOR FOREST OUTPUT
(For marketing and demand for productive agents, see II)

A. Consumption

- 1. General; history of consumption; consumption-production relationships
- 2. Consumption or production prospect, goal, requirement, prediction (For material on short-term requirement, see the industry in question in IV, "Industry, status and trend.")
- *3. Consumer demand and preference
(For material on specific forest resources, see also IIIA,B)

B. Market, marketing; trade, export, import

1. General
- *2. Futures, hedging
3. Stumpage, roundwood
4. Lumber, plywood, composition board
5. Pulp, paper, paperboard

a. Product

*b. Raw material

- *6. Other wood products
7. Christmas trees, greens
- *8. Other type of output (See also IIC3)

C. Price, value

1. General
2. Stumpage, roundwood
- *3. Other type of output
- *4. Price reporting

- *D. Transportation (Includes transportation in manufacturing.)
(For transportation in forest management, see IIC; in harvesting see IVB4)

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declined by 597,000 acres. Growing-stock volume on commercial forest has increased from 11.6 to 13.6 billion cubic feet. Net annual growth has increased from 33 to 50 cubic feet per acre of commercial forest. The acreage planted to pine each year has declined by 24 percent, pine sapling-seedling stands have decreased by 14 percent, and hardwood sapling-seedling stands have increased by 39 percent. Growing-stock removals have increased by 56 percent. About 1 acre was replaced by a manageable stand for every 2 acres harvested and retained in forest. Opportunities exist to improve production on 7.3 million acres of forest.

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518,100 acres of land, a slight decline from the 572,400 acres reported in 1954. Area of commercial forest land dropped from 398,400 acres to 343,200 acres. The aspen forest type makes up 41 percent of the commercial forest area.

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2661. 59 IC HODAPP W., STUEWE E., STEINHAUSER U. "Law, Taxation, and Insurance of Forestry Cooperatives." Auswertungsund Informationsdienst fuer Ernaehrung, Landwirtschaft und Forsten (AID), Bonn 2, publication No. 189 (1982) In German.
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2666. 59 IC PIDOT J.R. "Maine's Land-Use Regulation Commission." Journal of Forestry, Vol. 80, No. 9 (1982), pages 591-593, 602. Maine's ten-year-old Land-Use Regulation Commission plans and zones one half of the state, mostly lands owned by forest industry. Under a comprehensive plan that guides decisions on permits for development, lands are classified into three major zones: protection, development, and management. Forestry activities are allowed on most of the lands. Issues in administration of the system include land-owner acceptance, enforcement, salvage of budworm-threatened trees in protected zones, and increasingly intensive harvest of timber.
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2750. 59 IIB2B KINCAID D.B. "Wayne National Forest: Model of Multiple Use." Journal of Forestry, Vol. 80, No. 7 (1982), pages 404-405, 408.
2751. 59 IIB2B KOHATA H. "Marching Forward to the Improved Management of the National Forest (in Japan)." Q J Chin For, Vol. 13, No. 2 (1980) In Chinese. Cited in Bibliography of Agriculture, Vol. 46, No. 4.
2752. 59 IIB2B MCGUIRE J.R. "The National Forests: An Experiment in Land Management." Journal of Forestry, Vol. 26, No. 2 (1982), pages 84-91.
2753. 59 IIB2B PETERSON C.S., SPETH L.E. "Administration and Personnel on the Wasatch-Cache National Forest." Journal of Forest History, Vol. 26, No. 1 (1982), pages 4-19. Covers administrative beginnings, first local foresters, supervisors, public officers, the role of education, and the work force.
2754. 59 IIB2B WIENER A.A. "Forest Service Data on Timber Sold and Harvested - Some Caveats for Users." Journal of Forestry, Vol. 80, No. 6 (1982), pages 350-354, 357. USDA Forest Service reports of timber sold and harvested provide data for measuring performance on the national forests, as well as comparative information for private applications. Analyses or comparisons of such data must, however, be made with care, because there are differences in periods of reporting, potential uses, units of measurement, species, timber size, and contract terms.
2755. 59 IIB2B The O & C Lands Statistical Supplement. Bureau of Governmental Research and Service, School of Community Service and Public Affairs, Univ. of Oregon. (1981), unnumbered.
2756. 59 IIB2B The O & C Lands. Bureau of Governmental Research and Service, School of Community Service and Public Affairs, Univ. of Oregon. (1981), 178 pages. Includes history of the ownership and management of the O & C lands; land area, ownership, forest land, timber production and nontimber resources; administrative management, income from the lands, management and role of

investment on the lands; impact of the revenue derived from O & C lands on the finance patterns of the eighteen counties in which the lands are located; and the economic significance of the O & C resource to the region.

2757. 59 IIB2C ERICKSON D.L., LIU C.J. "Methods of Identifying and Assessing Problems in Community Woodlands." In, Proceedings 17th IUFRO World Congress, Kyoto, Japan. (1981), pages 25-31. Four sociological methods are described and evaluated in terms of their utility to the planning/problem-solving process. With the limited resources of many forest administering agencies and the need for information exchange among rural residents and between those residents and government officials, small group techniques are suggested.
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2760. 59 IIB3A MCCLOSKEY M. "The Responsibility of the Private Owner for Forest Land Stewardship." In, Land-Use Allocation: Processes, People, Professionals. Proceedings of the 1980 Convention of the Society of American Foresters. (1981), pages 99-101.
2761. 59 IIB3A NORMANDIN D. "The State of Our Knowledge of the (ownership) Structure of (French) Forests Not under State Control." Revue Forestiere Francaise, Vol. 33, No. 6 (1981) In French. Pages 431-444.
2762. 59 IIB3B AINSCOUGH G.L. The Designed Forest System of MacMillan Bloedel Limited: An Example of Industrial Forest Management in British Columbia. Vancouver: Univ. of British Columbia. The H.R. Mac Millan lectureship in Forestry (1981), 20 pages.
2763. 59 IIB3C FITZSIMMONS W.L., HAROU P.A. The Economics of Forestry Incentives in Massachusetts Economic Evaluation of FIP in 1978. Mass. Agric. Exp. Stn., Univ. of Mass. Research Bulletin 669 (1981), 115 pages.
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Southeast Area, No. 12 (1980), pages 110-119. Cited in Bibliography of Agriculture, Vol. 46, No. 4. Management assistance, nonindustrial private forests.

2765. 59 IIB3C HAROU P.A., FITZSIMMONS W. A Survey of the 1978 Forestry Incentive Program Participants in Massachusetts. Dept. of Forestry and Wildlife Management Univ. of Massachusetts No. SP-128 (1981), 64 pages.
2766. 59 IIB3C HAROU P.A.W. "The Turnover of Forest Property Ownership in Southern New England." In, New England Business and Economic Association - Proceedings of the Eighth Annual Conference Nov. 6-7, 1980. Editors: George J. Burak and Robert L. Rivers, School of Business Administration, Univ. of Mass.
2767. 59 IIB3C HELLES F. "Methods of Identifying and Assessing Problems Associated with Small Private Forests." In, Proceedings 17th IUFRO World Congress, Kyoto, Japan. (1981), pages 32-41.
2768. 59 IIB3C HOLMES T., DIAMOND J. An Analysis of Non-Industrial Private Woodland Owners' Attitudes towards Timber Harvesting and Forest Land Use in Windham County, Connecticut, 1979. Storrs, Conn. Agric. Exp. Stn. College of Agric. and Natural Resources, Univ. of Conn. Research Report 63 (1980), 23 pages.
2769. 59 IIB3C JARVELAINEN V.P. "Cutting Behavior in Finnish Private Woodlots." Folia. For. No. 499. Author's address: Univ. of Helsinki, Dept. of Social Economics of Forestry, Unioninkatu 40 B, SF-00170 Helsinki 17, Finland. (1981) In Finnish with an English summary. Pages 1-54. Describes and explains the harvesting choices made by private landowners.
2770. 59 IIB3C KAISER F., BIRCH T., LEWIS D. "New Findings on Private Forest Landowners." American Forests, Vol. 88, No. 7 (1982), pages 28-30, 44.
2771. 59 IIB3C KRONRAD G., HAROU P. A Survey of Landowners Entering the Massachusetts Yield Tax Program in 1978. Cooperative Extension Service, Univ. of Mass. No. SP-134 (1982), 42 pages.
2772. 59 IIB3C MACBRAYNE C.G. "The Case for Farm-Forestry." Scottish Forestry, Vol. 36, No. 2 (1982), pages 123-130. Upland farmers need to diversify production and forestry can offer a long term solution but there is no tradition of farm-forestry in Britain and incentive must be provided.
2773. 59 IIB3C MCGILLVRA Y R. Alder, Investment for Nonindustrial Private Landowners? Olympia: Washington Dept. of Natural Resources Note 35 (1981), 21 pages.
2774. 59 IIB3C NODINE S.K., STEVENS J.H. JR. "Foresters' Opinions on the Needs of Nonindustrial Private Forest Land

in South Carolina." Forestry Bulletin No. 31, Dept. of Forestry, Clemson Univ. (1982), 6 pages.

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2786. 59 IIC2 JOHNSON N.E. - "Relationship between National and International Levels of Decisions Made in Land-Use Allocation." In, Land-Use Allocation: Processes, People, Professionals. Proceedings of the 1980 Convention of the Society of American Foresters. (1981), pages 32-35.
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2790. 59 IIC3 CRAWFORD D.B. "Land Use Planning - The Problems of Conflicting Interests." Scottish Forestry, Vol. 36, No. 2 (1982), pages 91-101.
2791. 59 IIC3 FRANZESE M.L. "Promise or a Threat? Coordinating the Planning Needs of the Private and Public Sectors." In, Land-Use Allocation: Processes, People, Professionals. Proceedings of the 1980 Convention of the Society of American Foresters. (1981), pages 27-31.
2792. 59 IIC3 KNUDSON D.M., LARSON G.B. "Land-Use Planning Strategies for Foresters." Journal of Forestry, Vol. 80, No. 9 (1982), pages 579-580, 602. Growing importance of land-use planning effects foresters and forestry. Foresters are particularly well trained to participate in

many phases of such activity, but have seldom been involved with local comprehensive plans. The forestry profession can contribute to the processes and opportunities in various multi-purpose planning programs.

2793. 59 IIC3 LAPPING M.B. "Rural Development and Land-Use Planning: A Forestry Perspective." *Journal of Forestry*, Vol. 80, No. 9 (1982), pages 583-584, 602. Land-use planning in rural areas has often treated forests as special problems. Tax laws, timber practice laws, planning regulations, and now statewide forestry planning have done little to integrate the forestland into the total planning process. Rural resistance to regulation and planning suggests a need to adapt city-born planning techniques and procedures to the informal institutions of rural areas.
2794. 59 IIC3 LUBKA L. "Role of the Forester in Land-Use Planning." *Journal of Forestry*, Vol. 80, No. 9 (1982), pages 597-601. Foresters can influence public land-use planning throughout the process. Goals, issues, and constraints should include forestry needs and supporting data. If foresters are to contribute to land-use planning at federal, state, regional, or local levels, they will have to take the initiative.
2795. 59 IIC3 MARTIN T.W., FITCH W.N., NOBLE B.F. "Reclamation through Land Sculpture." In, *Land-Use Allocation: Processes, People, Professionals. Proceedings of the 1980 Convention of the Society of American Foresters.* (1981), pages 235-239.
2796. 59 IIC3 MOON G.C. "Planning Techniques and Problems in Land-Use Allocation." In, *Land-Use Allocation: Processes, People, Professionals. Proceedings of the 1980 Convention of the Society of American Foresters.* (1981), pages 7-11.
2797. 59 IIC3 ROSENTHAL J.C., DON R.T. "International Paper Company: Industry as a Land-Use Planner." *Journal of Forestry*, Vol. 80, No. 9 (1982), pages 594-597. Four cases of recent actions by International Paper Company illustrate diverse ways in which industrial decisions were accompanied by the firm's planning analyses and related benefits. Land-use planning by industry documents the company's effects on a community, complementing conventional public planning. It considers general community relations. Changes in the labor force, housing, surplus corporate lands, and efficient management of company assets.
2798. 59 IIC3 STINE S.E. "Perspectives in Land-Use Planning versus Resource Allocation Planning." In, *Land-Use Allocation: Processes, People, Professionals. Proceedings of the 1980 Convention of the Society of American Foresters.* (1981), pages 243-246.
2799. 59 IIC3 STINE S.E., BYRNE J.G. "Land-Use Planning: Opportunity for Resource Professionals." *Journal of*

Forestry, Vol. 80. No. 9 (1982), pages 581-582. Theories and processes of planning have undergone substantial changes in recent decades, and innovations are occurring in the means by which state and local governments put plans into effect. Managers of public and industrial forests must keep abreast of developments and contribute their knowledge and skills when land-use plans are being made. They should also reappraise the planning on the lands they are directly responsible for. Forestry schools do not seem to give students a basic understanding of land-use planning.

2800. 59 IIC3 STOLTENBURG C.H. "Oregon's Experience with State Land-Use Planning with Particular Reference to Forestry." In, Land-Use Allocation: Processes, People, Professionals. Proceedings of the 1980 Convention of the Society of American Foresters. (1981), pages 21-24.
2801. 59 IIC3 WILLIAMS H.J., HARDING D. "Towards a Land Use Strategy for the Uplands of Wales." Quarterly Journal of Forestry, Vol. 76, No. 1 (1982), pages 7-23. Describes the characteristics of the uplands, present uses and financial incentives to improve or intensify some of these. An example of the problem of competing uses is explained and a strategy suggested.
2802. 59 IID1 KLEMPERER W.D., HANEY H.L.JR., GUNTER J.E. "A Note on Forest Land Values and Return on Investment." Forest Science, Vol. 28, No. 1 (1982), pages 175-176. Clarifies the conditions under which including increasing land values when evaluating forestry investments is and is not valid.
2803. 59 IID1 MILLS W.L. JR., HOOVER W.L. "Investment in Forest Land: Aspects of Risk and Diversification." Land Economics, Vol. 58, No. 1 (1982), pages 33-51. Traditional investment analyses of forestry often yield low net present values or internal rates of return, indicating that forestry investments may be unwise for farmers and other rural landowners. However, thousands of individuals do own and operate forest lands for investment purposes. This paper examines an explanation of this behavior based on portfolio analysis and diversification.
2804. 59 IID1 Financial Mechanisms and Sources for Forest Sector Development in Latin America. Technical Report No. 5. From, Financing Forest-Based Development in Latin America, Regional Conference Sponsored by the Inter-American Development Bank, (June 22-25, 1982). (1982), 17 pages. Describes the financing mechanisms and means used for the forest-based sector in Latin America, identifies main financing problems in the region and suggests solutions. Role of international lending and technical assistance institutions is reviewed.
2805. 59 IID1 Forest Industries Development Strategy and Investment Requirements in Latin America. Technical Report No. 1. From, Financing Forest-Based Development in

Latin America, Regional Conference Sponsored by the Inter-American Development Bank, (June 22-25, 1982). (1982), 128 pages.

2806. 59 IID1 Forestry Investment Opportunities and Contributions to Energy, Resource Conservation and Rural Development. Technical Report No. 2. From, Financing Forest-Based Development in Latin America, Regional Conference Sponsored by the Inter-American Development Bank, (June 22-25, 1982). (1982), 39 pages. There are few large-scale formal forestry investment projects in Latin America. Obstacles to increasing forestry investments are: lack of appreciation of the benefits provided by proper forest management, forest sector agencies in many Latin American countries have not been incorporated into rural development planning. Projects which could address these issues fall into three general categories: fuelwood, watershed management, and forest-based small business.
2807. 59 IID1 Financing Forest Sector Investment Projects in Latin America: Issues and Opportunities. Conference Document (June 22-25, 1982) Sponsored by the Inter American Development Bank. (1982), 26 pages. External financing and technical assistance institutions should be asked to begin programs in forest sector analysis and project identification and financing. Such efforts should be concentrated initially in a few fields with clear economic and social benefits and with high possibilities of success.
2808. 59 IID1 Institutional Requirements for Expanding Forest Sector Investments. Technical Report No. 3. From, Financing Forest-Based Development in Latin America, Regional Conference Sponsored by the Inter-American Development Bank, (June 22-25, 1982). (1982), 26 pages. Execution of forestry projects is often complicated by the number of institutions involved, cooperatives or local communities, large and small landowners. This requires that plans of operation include promotional aspects directed towards these participants, and towards different methods of distributing the final benefits. Aspects that merit attention are the professional training to foresters in the areas of economics and planning and the training of middle level management personnel and unskilled labor.
2809. 59 IID1 Technical Cooperation Needs for Expanding Forest Sector Investments. Technical Report No. 4. From, Financing Forest-Based Development in Latin America, Regional Conference Sponsored by the Inter-American Development Bank, (June 22-25, 1982). (1982), 25 pages. In Latin America the necessity for technical cooperation in the forest investment process can be separated into three steps: identification, design and analysis, and execution of projects. It is necessary to place a new emphasis on technical assistance in order to: improve information systems, train professionals in the

identification and analysis of projects, and assist governments in planning adequate financial structures for the forest sector.

2810. 59 IIIA1 MACBRAYNE C.G. "Agroforestry for Upland Farms?" Scottish Forestry, Vol. 36, No. 3 (1982), pages 195-206.
2811. 59 IIIA1 MACDONALD L. "Agro-Forestry in the African Humid Tropics." The Commonwealth Forestry Review, Vol. 60, No. 4 (1982), pages 43-45. Agro-forestry is a broad category of land-use options which appears to have considerable potential for sustained yields of plant products, yet it has received very little attention from researchers or government officials. This is an overview of the papers presented at a workshop in Ibadan, Nigeria, where scientists discussed traditional agro-forestry practices, current research and possibilities for development.
2812. 59 IIIA1 NEWTON J.P., RIVERS M.J. "Lake Vyrnwy Estate: An Example of the Multiple Use of Rural Land." Quarterly Journal of Forestry, Vol. 76, No. 2 (1982), pages 92-102. Imaginative and constant management of the reservoir (Lake Vyrnwy) and its catchment has developed a group of inter-dependent rural industries that are profitable and enhance the scenery and wildlife community of the area.
2813. 59 IIIA1 SAASTÄMOINEN O. "Economics of Multiple-Use Forestry in the Saariselka Forest and Fell Area." Commun. Inst. For. Fenn. No. 104. Author's address: The Finnish Forest Research Institute, Rovaniemi Research Station, Etelaranta 55, SF-96300 Rovaniemi 30, Finland. (1982) In English with a Finnish summary. Pages 1-102. Mutual relationships and economics of timber production, reindeer grazing and outdoor recreation are studied in Finnish Lapland in an area of 1757 sq. km. consisting of forest and treeless fells. Outdoor recreation measured by the returns of tourism enterprises appeared to be economically the most important land use and the most appropriate multiple use combination seemed to be that of outdoor recreation and reindeer grazing.
2814. 59 IIIA1 SPEER J. "The Development of Energy Economy and Consequences for Forestry." Der Forst- und Holzwirt, Hannover, No. 12 (1982) In German. Pages 305-307. The energy crisis cannot cause a revolution in forest practices which have developed over centuries. In particular the maintenance and improvement of site conditions must be regarded.
2815. 59 IIIA2 JAMES L.M., RUDOLPH V.J., KOELLING M.R. "Production and Marketing of Christmas Trees in Michigan." Res. Rep Mich State Univ Agric Exp Stn No. 412 (1980), 8 pages. Cited in Bibliography of Agriculture, Vol. 46, No. 4.

2816. 59 IIIA3 ACHTERMAN G.L. "Legal Constraints in Public Rangeland Management." In, Land-Use Allocation: Processes, People, Professionals. Proceedings of the 1980 Convention of the Society of American Foresters. (1981), pages 208-210.
2817. 59 IIIA3 FAIRFAX S.K. "Range Management in the 1980's: a Brief Look at the Political Context." In, Land-Use Allocation: Processes, People, Professionals. Proceedings of the 1980 Convention of the Society of American Foresters. (1981), pages 203-207.
2818. 59 IIIA3 GODFREY E.B., NIELSEN D.B. "Economic Incentives and Range Improvements on Federal Rangelands." In, Land-Use Allocation: Processes, People, Professionals. Proceedings of the 1980 Convention of the Society of American Foresters. (1981), pages 194-197.
2819. 59 IIIA3 WEST P.C. "Constraints or Challenge? Social Dilemmas in Public Rangeland Management." In, Land-Use Allocation: Processes, People, Professionals. Proceedings of the 1980 Convention of the Society of American Foresters. (1981), pages 198-202.
2820. 59 IIIA5A "Efforts of Forestry to Influence Public Opinion." Der Forst und Holzwirt, Hannover, No. 13 (1982) In German. Pages 336-346. Four articles discussing how forest districts can influence public opinion with youth as the most effective target group.
2821. 59 IIIA5A "Forests and Tourism - Wooded Tyrol." Allgemeine Forstzeitung, Vienna No. 4 (1982) In German with English and French summaries. Pages 83-96. Seven articles dealing with the land and forests of Tyrol and its tourism development. Limitations, damages, dangers and objectives for more quality in recreation motivated by responsibility for the country and its residents.
2822. 59 IIIA5C CHUBB M., WESTOVER T.N. "Antisocial Behavior: Typology, Messages, and Implications for Recreation Resource Managers." In, Land-Use Allocation: Processes, People, Professionals. Proceedings of the 1980 Convention of the Society of American Foresters. (1981), pages 271-278.
2823. 59 IIIA5C COLE D.N. Wilderness Campsite Impacts: Effect of Amount of Use. USDA Forest Service Research Paper INT-284 (1982), 34 pages. Subalpine lakeshore campsites were studied in the Eagle Cap Wilderness, Oregon. Light-use campsites had experienced almost as much alteration as moderate- and heavy-use sites. Sites set back from lakeshores had changed as much as lakeshore sites. Selected indicators of ecological change were evaluated. Implications of this research to management of wilderness campsites are discussed.
2824. 59 IIIA5C COLE D.N., SCHREINER E.G.S. Impacts of Backcountry Recreation: Site Management and Rehabilitation

- An Annotated Bibliography. USDA Forest Service General Technical Report INT-121 (1981), 58 pages. Over 300 references on recreational impacts, impact management, and rehabilitation of impacted sites are reviewed. Implications for backcountry management are assessed.

2825. 59 IIIA5C KRUMPE E.E., BROWN P.J. "Redistributing Backcountry Use through Information Related to Recreation Experiences." Journal of Forestry, Vol. 80, No. 6 (1982), pages 360-362, 364. An experiment in Yellowstone National Park tested a "trail selector" consisting of a brochure and map containing information designed to enable visitors to select trails offering the type of recreation experience they desired and to provide alternatives to the most highly used trails. The trail selector gave information on specific backcountry characteristics for 28 lightly used trails. The experiment demonstrated that simple information about trail attributes could redistribute use.
2826. 59 IIIA5D CHEN CHAW-MING Study of Forest Recreation Resource, Demand and Management in Taiwan. Final Report submitted to the Council of Agricultural Development and Planning (1981) In Chinese with English summary. 198 pages. Research summary of work completed by the Forest Recreation Research Group within the Department of Forestry. Divided into four parts: development and trend in forest recreation research world wide and especially Taiwan; analysis of demand for forest recreation in Taiwan; discussion of the potential of forest land for recreational use, its capability and characteristics; discussion of issues concerning the goal-setting procedures, land-use zoning and restrictions, personnel organization in management.
2827. 59 IIIA5D SAASTAMOINEN O., SIEVANEN T. "Time Patterns of Recreation in Urban Forests in Two Finnish Towns." Folia Forestalia, No. 473 (1981) In Finnish with English summary. Pages 1-24. The aim of this investigation is to examine seasonal, weekly and daily patterns of outdoor recreation in urban forests.
2828. 59 IIIA5D WASHBURNE R., WALL P. Black-White Ethnic Differences in Outdoor Recreation." USDA Forest Service Res. Pap. INT-249 (1980), 13 pages. Leisure patterns of blacks result from a distinct cultural value and normative system contrasted to a "mass society" of whites. This suggests that leisure activities may help maintain subculture systems of ethnic minorities that contrast, but must coexist with, a dominant culture.
2829. 59 IIIA5D WEITZSTEIN M.E., GREEN R.D., ELSNER G.H. "Estimation of Wilderness Use Functions for California: An Analysis of Covariance Approach." Journal of Leisure Research, Vol. 14, No. 1 (1982), pages 16-26. The Hotelling-Clawson procedure for estimating demand for

recreation resources assumes only one destination with no close substitutes. The problem of estimating demand for wilderness use in California is an example where the availability of close substitutes will influence both the estimation technique and the determinants accounting for wilderness use. Alternative estimation techniques are presented and tested to account for differences among destinations. Results indicate that dealing with a multi-area wilderness system, assumptions with regard to the structure of the system must be explicitly stated and tested.

2830. 59 IIIA5E COX T.R. "From Hot Springs to Gateway: the Evolving Concept of Public Parks, 1832-1976." *Environmental Review*, Vol. 5, No. 1 (1980), pages 14-26. Conceptions of parks have changed in fairly specific ways as the intellectual and social milieu in which they have existed has changed. Dominant views have become less elitist, less romantic, more ecologically and recreationally oriented, and more catholic. Parks created in one era have sometimes come into conflict with the perceptions of another era.
2831. 59 IIIA5E LEMONS J., STOUT D. "National Parks Legislative Mandate in the United States of America." *Environmental Management*, Vol. 6, No. 3 (1982), pages 199-207. Major issues concerning management of parks are expanded visitor use and the dilemma of preservation versus use. An interpretation of legislative meaning which supports a policy of preservation of park resources is provided.
2832. 59 IIIA5E SCHOMAKER J.H., GLASSFORD T.R. "Backcountry As an Alternative to Wilderness?" *Journal of Forestry*, Vol. 80, No. 6 (1982), pages 358-360, 364. Backcountry areas have been suggested as recreation alternatives to wilderness. A problem with the concept is that areas which could be managed as backcountry are already used by recreationists. Visitors to a wilderness in Oregon and to a nondesignated roadless area in northern Idaho held many of the same values and sought the same kind of experiences. Therefore, redistribution, as proposed by backcountry proponents, may be equivalent to shifting use from officially designated wilderness to defacto wilderness rather than from wilderness to a backcountry recreation area.
2833. 59 IIIA5E WELLMAN J.D., DAWSON M.S., ROGGENBUCK J.W. "Park Managers' Predictions of the Motivations of Visitors to Two National Park Service Areas." *Journal of Leisure Research*, Vol. 14, No. 1 (1982), pages 1-15. Managers at Cape Hatteras National Seashore and Shenandoah National Park were asked to predict the motivations specific groups of visitors to their parks had expressed in recent structured surveys. Cape Hatteras managers' predictions were frequently in error, while Shenandoah managers' predictions were generally accurate. These

findings are joined with previous research to provide a tentative hypothesis concerning managers' understanding of client viewpoints.

2834. 59 IIIA5G HAROU P.A. "Including Equity in the Evaluation of Outdoor Recreation Benefits." *Canadian Journal of Forest Research*, Vol. 12, No. 2 (1982), pages 337-342. Forest recreation activities are characterized by high income level participants. If planners introduce an income distribution dimension in the evaluation of recreation benefits, this inequity could be corrected.
2835. 59 IIIA5H FICHTLER R.K. The Relationship of Recreational Impacts on Backcountry Campsites to Selected Montana Habitat Types. M.S. Thesis, Univ. Mont., Missoula. (1980), 109 pages.
2836. 59 IIIA5H PETERSON G.L., ANDERSON D.H., LIME D.W. "Multiple-Use Site Demand Analysis: An Application to the Boundary Waters Canoe Area Wilderness." *Journal of Leisure Research*, Vol. 14, No. 1 (1982), pages 27-36. A single site multiple use trip demand model is derived from a multiple site regional model based on utility maximizing choice theory. The model is applied to analyze and compare trips to the Boundary Waters Canoe Area Wilderness for several types of use. Travel cost elasticities of demand are compared and discussed.
2837. 59 IIIA5H ROGGENBUCK J.W., BERRIER D.L. "A Comparison of the Effectiveness of Two Communication Strategies in Dispersing Wilderness Campers." *Journal of Leisure Research*, Vol. 14, No. 1 (1982), pages 77-89. Two communication strategies, a brochure and a brochure plus personal contact, were used to attempt to disperse wilderness campers from a heavily used meadow. Both strategies were successful, and no difference was found in overall effectiveness.
2838. 59 IIIA5H ROGGENBUCK J.W., SMITH A.C., WELLMAN J.D. "Canoeists' Perceptions of Problem Behaviors on Virginia Rivers." *Journal of Soil and Water Conservation*, Vol. 37, No. 2 (1982), pages 122-126. Canoeists generally perceived safety hazard behaviors as the most serious problems on nine Virginia rivers, followed by environmental impact and social conflict behaviors. Perceptions varied considerably. Canoeists labeled as not serious many actions that might violate a leave-no-trace land ethic.
2839. 59 IIIA5H SHELBY B., DANLEY M.S., GIBBS K.C., PETERSEN M.E. "Preferences of Backpackers and River Runners for Allocation Techniques." *Journal of Forestry*, Vol. 80, No. 7 (1982), pages 416-419. In a questionnaire study, river runners and backpackers in Oregon reacted most favorably to pricing and reservation as means of allocating scarce recreation resources. Differences in reactions to three other alternatives (lottery, queuing,

and merit) apparently reflected differences in the characteristics of the areas and types of recreation studied.

2840. 59 IIIA5H WEST P.C. "Effects of User Behavior on the Perception of Crowding in Backcountry Forest Recreation." *Forest Science*, Vol. 28, No. 1 (1982), pages 95-105. Perceived density and being bothered by other users' behavior interact to influence the perceptions of crowding. Implications for management might include behavioral zoning and silvicultural management strategies which will reduce conflict among users with differing behavioral norms.
2841. 59 IIIA5I HASPEL A.E., JOHNSON F.R. "Multiple Destination Trip Bias in Recreation Benefit Estimation." *Land Economics*, Vol. 58, No. 3 (1982), pages 364-372.
2842. 59 IIIA5I ZUBE E.H., SELL J.L., TAYLOR J.G. "Landscape Perception: Research, Application and Theory." *Landscape Planning*, Vol. 9, No. 1 (1982), pages 1-33. An analysis of the paradigms that have been followed in assessing perceived landscape values, and identification of the theoretical or conceptual bases which underlie these approaches. Absence of an explicit theoretical foundation is noted. Arguments in support of the development of a theoretical framework for landscape perception research are advanced and a proposed framework based on an interactive perception process is presented.
2843. 59 IIIA7 BULL P.C. "The Consequences for Wildlife of Expanding New Zealand's Forest Industry." *New Zealand Journal of Forestry*, Vol. 26, No. 2 (1981), pages 210-231. The value of exotic forests as wildlife habitats could be improved by establishing corridors of native vegetation within the forest, by including trees which provide a seasonal succession of nectar or berries, by cropping the forest on a patchwork basis and on a long rotation for sawlogs rather than a short rotation for pulp, by controlling pests with sprays and baits safe to non-target species, and by encouraging further research on the habitat requirements of native animals.
2844. 59 IIIA7 CAMPBELL J., ROSE R. "Private Enterprise Forestry and Wildlife Conservation." *Quarterly Journal of Forestry*, Vol. 76, No. 1 (1982), pages 44-52. Do wealthy countries have a responsibility to recycle some of their surpluses and create efficient man-made plantations to meet future world demand for timber and wood products, and take some pressure off existing natural forests to conserve wildlife?
2845. 59 IIIA7 GILES R.H. JR. "Management Knowledge through Wildlife Research: a Perspective." *Environmental Management*, Vol. 6, No. 3 (1982), pages 185-191. Information from research is needed to improve the decisions made by wildlife managers. While changes within

current management structures are unlikely, continuing classical experimental research alone will not meet the timely needs of the field or of citizens dependent on wildlife resources. Suggestions for change include: discussions with people in other broadly defined fields with a similar problem, new sampling strategies, increased use of computer models, use of geobased information systems, use of game theory, non-species research grouping, new funding structures, and sharing of facilities and teams of specialists.

2846. 59 IIIA7 GUIRAUD C. "Hunting in the Forest in Europe." *Revue Forestiere Francaise*, Vol. 33, No. 6 (1981) In French. Pages 515-521.
2847. 59 IIIA8 DAVIS H.F. "The Challenging Future for Arboricultural Research." *Journal of Arboriculture*, Vol. 8, No. 6 (1982), pages 141-144. Better communication between practicing arborists and research scientists is a necessity, as is more effective funding and general support.
2848. 59 IIIA8 GERHOLD H.D., SACKSTEDER C.J. , "Better Ways of Selecting Trees for Urban Plantings." *Journal of Arboriculture*, Vol. 8, No. 6 (1982), pages 145-153.
2849. 59 IIIA8 MACLEAN J. . *Urban Forestry, 1979-1981*. US Department of Agric. Agricultural Library (Quick bibliography series) NAL-BIBL-81-15 (updates 80-06) (1981), 15 pages. Contains 140 citations.
2850. 59 IIIA8 MOELLER G.H. "Research Programs in Urban Forestry." *Trends*, Vol. 18, No. 4 (1981), pages 4-9. Those responsible for management and planning of urban forest resources must strike a balance between the needs of people and the ability of urban forest systems to fulfill those needs.
2851. 59 IIIA8 SIEVERT R., HEILIGMANN R., MITCHELL T. "Urban Forestry in Selected Midwest Cities." *Journal of Arboriculture*, Vol. 8, No. 5 (1982), pages 136-139.
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Bavarian Academy for nature protection and Care of the Landscape and International Federation of Landscape Architects with papers concerning nature, recreational areas, and open natural zones in city areas.

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2856. 59 IIIB5 NICHOLSON W.E., TEDDER P.L. Joint Timber-Harvest Scheduling by the U.S. Forest Service and the Bureau of Land Management. Forest Research Laboratory, Oregon State University, Corvallis. Research Bulletin 37 (1982), 41 pages. Joint harvest scheduling of Bureau of Land Management and U.S. Forest Service lands in western Oregon would result in small increases in harvests because of the physical allowable cut effect. Total revenues to counties in western Oregon would fall in the near future if revenues from a merged agency were determined according to current procedures. The decline in revenues would result from increased harvests from U.S. Forest Service lands and decreased harvests from Bureau of Land Management lands.
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2862. 59 IIIE BATTUNG B.C. The Adaptability of Goal Programming for Multiple Use Forest Management in the Philippines. FAO, Rome (1981), 96 pages. Cited in FAO Documentation 82/3-4.
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