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ABSTRACT

Documents which address the interface between forestry and the social sciences comprise this annotated bibliography. A subject-matter classification scheme is used to group publications by subheadings under five major heading: (1) social science applied to forestry at large; (2) applied to forestry's productive agents; (3) applied to forest production; (4) applied to manufacturing; and (5) applied to marketing trade, and demand for forest output. Arranged alphabetically by author, each entry contains the document's complete citation and a brief abstract. If the publication is not in English, the language used is indicated. An author index is also provided. An appendix lists theses and dissertations in progress in the United States and Canada. Compilation sources included numerous U.S. and foreign journals, publications lists from U.S. Forest Service Experiment Stations, and selected data bases. (DC)

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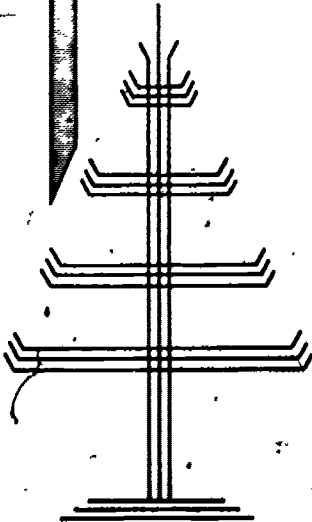
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SPECIAL APPENDIX:

THESES AND DISSERTATIONS IN PROGRESS.

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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.

I. 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 IIIE; 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
 - 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 IID1)

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 IIIC; in harvesting see IVB4)

1753. 57 IA ANDERSEN LEIF, HELLES FINN A Systematic Approach to Dynamic Forestry Economics. Report from Dept. of Forestry, Series 2, No. 10. Denmark. (1981) In Danish. 23 pages.
1754. 57 IA BRUNI L. "For a Better Inclusion of Forest Economics, into Mountain Economics." J. For. Suisse. Schweiz. Z. Forstwes., Vol. 130, No. 1 (1979) In Italian. Pages 11-14. Cited in Bibliography of Agriculture Vol. 45, No. 2.
1755. 57 IA KOVAGS K. "Forest and Timber - The Science of Economics and Organization." Erdo, Vol. 28, No. 6 (1979) In Hungarian. Pages 279-282. Cited in Bibliography of Agriculture Vol. 45, No. 1.
1756. 57 IA TOMBAUGH LARRY W., STONE ROBERT N. "Renewable Resources: Will They Be Scarce in the Future?" In, Through the 80's, Thinking Globally, Acting Locally. Published by World Future Society, Washington, D.C. (1980), pages 118-121. Emphasis is on goods and services provided by forests. Widely divergent future views are troublesome to the forest manager. More communication between persons involved with natural resource management and policy and people from other disciplines who are grappling with better ways of structuring thinking about the future is recommended.
1757. 57 IB1 LUST N. "Forestry Mission to Industrial Countries." Kehutanan Indones, Vol. 5, No. 3 (1979) In Indonesian. Pages 8-11, 32-34. Cited in Bibliography of Agriculture Vol. 45, No. 3.
1758. 57 IB1 MICKO M.M. "Forestry Challenges and Responsibilities of the 1980s." Agric. For. Bull., Vol. 3, No. 1 (1980), pages 26-28. Cited in Bibliography of Agriculture Vol. 44, No. 11/12.
1759. 57 IB1 OTTO H.J. "Experience and Outlook: Forests of Tomorrow." Aus Walde Mitt Niedersachs Landesforstverwalt (1979) In German. Pages 302-345. Cited in Bibliography of Agriculture Vol. 45, No. 3.
1760. 57 IB1 SEIP H.K. "Resources and Use of Timber in the World." Tidskr. Skogbruk Vol. 87, No. 1 (1979) In Norwegian. Pages 7-8. Cited in Bibliography of Agriculture Vol. 44, No. 3/4.
1761. 57 IB1 STEINLIN H. "World Wood Production: Ecological, Social and Economic Aspects." J. For. Suisse Schweiz Z. Forstwes, Vol. 130, No. 2 (1979) In German. Pages 109-131. Cited in Bibliography of Agriculture Vol. 45, No. 2.
1762. 57 IB2 ADAMS D.M., HAYNES R.W. The 1980 RPA Softwood Timber Assessment Market Model: Structure, Projections, and Policy Simulations. Forest Science Monograph 22 (1980). Details for the construction and estimation of a long-range model to project prices, production, and consumption of forest products in the U.S. to the year 2030. The baseline projection was used by the U.S. Forest Service in the 1980 Timber Assessment report. Several alternative policy measures, such as changes in log export restrictions and intensive management on private forest lands, are simulated.

1763. 57 IB2 ADAMS D.M.; HAYNES R.W. "The Demand-Supply-Price Outlook for U.S. Timber." In Proceedings, Timber Demand: The Future is Now. Forest Products Research Society. Madison, Wisconsin. (1980), pages 43-55. Recent projections of the North American forest economy to the year 2030 with details for softwood lumber and plywood, hardwood lumber, and pulp and paper products.
1764. 57 IB2 BECHTOLD WILLIAM A., SHEFFIELD RAYMOND M. Forest Statistics for Florida, 1980. USDA Forest Service Resource Bulletin SE-58, (1981), 40 pages. Since the fourth inventory of Florida's forest resources in 1970, area of commercial forest has declined by 597,000 acres, or 4 percent. Commercial forest now occupies 15.7 million acres, or 45 percent of the total land area. The ratio of pine types to hardwood types has remained the same, because declines in the total commercial forest were proportionately distributed between these types. Average basal area of all live trees 5.0 inches and larger has increased from 43 to 53 square feet per acre. Volume of growing stock has increased 20 percent for softwoods and 15 percent for hardwoods. Slash pine volume has increased by 35 percent, while longleaf pine volume has decreased by 8 percent. Net annual growth of growing stock averaged 50 cubic feet per acre up by 17 cubic feet per acre since 1969. Annual removals of growing stock averaged 69 percent of net annual growth.
1765. 57 IB2 FISHER RICHARD F. "Productivity in Florida's Third Forest." Journal of Forestry, Vol. 79, No. 9 (1981), pages 613-615. In the late 1960s foresters in the South set out to apply intensive practices and high technology to create and manage a very productive domesticated forest. This third forest was to succeed the second-growth stands which became established on abandoned fields and cut over sites that had once supported growth with pine. During more than a decade, management has intensified many new technologies have been developed. The South is producing more wood than ever before, but if the future demands are to be met the technologies must be further refined and management must become even more intensive.
1766. 57 IB2 FLICK WARREN A. "Forestry's Economic Contribution to Alabama." Highlights of Agricultural Research, Vol. 28, No. 2 (1981), page 9.
1767. 57 IB2 IRLAND LLOYD C. "Bojone House Conference on Maine's Forest Outlook." Journal of Forestry, Vol. 79, No. 10 (1981), pages 689-690, 702. A conference in Augusta, Maine, during January 1981 considered the ability of the forests to sustain increased demands created by industrial expansion. Damage by the spruce budworm, together with decades of non-management and diameter-limit harvesting, has left both spruce-fir and northern hardwood stands yielding far below potential but still capable of responding to good forestry. Participants were concerned that government regulations had a dampening effect on investment in forestry, and they regretted cutbacks in the state's forestry program.
1768. 57 IB2 JAKES PAMELA J. "Lake States' Resource Trends." Proceedings of Minnesota Forest Resource Inventory Conferences. USDA Forest Service General Technical Report NC-64. (1981), pages 10-25.

1769. 57 IB2 JOHNSON L.R. "Quantities and Costs of Wood Biomass in Idaho. Bull. Idaho For. Wildl. Range Exp. Sta. (1979), 10 pages. Bibliography of Agriculture Vol. 44, No. 3/4. Conversion of wood biomass to usable energy forms.
1770. 57 IB2 MCCLURE JOE P., SAUCIER JOSEPH R., BIESTERFELDT R.C. Biomass in Southeastern Forests. USDA Forest Service Research Paper SE-227 (1981), 38 pages. The 88.5 million acres of commercial forest land in the Southeast contain some 6.2 billion green tons of woody biomass. Distribution of this material is reported by state, tree size, and tree species. Relative amounts in various portions of typical trees are also reported for major species groups.
1771. 57 IB2 MILNE GRANT R., MUNRO JOHN A. Newfoundland Forest Facts. Environment Canada, Forestry Service, Newfoundland Forest Research Centre, Information Report N-X-201. (1981), 12 pages. Forest statistics, industry overview, sawmill statistics, pulp and paper statistics, inter-industry statistics.
1772. 57 IB2 NISSEN N.E. "Forestry and Forest Industries in British Columbia." Nor Skogind, Vol. 33, No. 6 (1979) In Norwegian. Pages 163-164. Cited in Bibliography of Agriculture, Vol. 44, No. 3/4.
1773. 57 IB2 OSTROM ARNOLD J. Timber Volume in Minnesota, 1977. USDA Forest Service Research Note NC-262 (1981), 6 pages. Statistics on Minnesota's growing-stock and sawtimber volumes by county for 1977.
1774. 57 IB2 POULIN JEAN-NOËL "Quebec Forest: A Provider and an Economic Challenge." The Faculty of Forestry, University of Toronto - The Weyerhaeuser Lecture Series. (1980) In English and French. Pages 23-54.
1775. 57 IB2 QUICK T. RICHARD, HEDLUND MARY S. Forest Statistics for Southwest Arkansas Counties. USDA Forest Service Resource Bulletin SO-70 (1979), 22 pages. Tabulates forest resource information from a new inventory of counties in southwest Arkansas.
1776. 57 IB2 SATTERLEE R. "Timber Supply (in Montana)." Proc. Northwest Wood Prod. Clin. (1979), pages 7-8. Cited in Bibliography of Agriculture Vol. 45, No. 3.
1777. 57 IB2 SHEFFIELD RAYMOND M., BECHTOLD WILLIAM A. Forest Statistics for South Florida, 1980. USDA Forest Service Resource Bulletin SE-59 (1981), 33 pages. Since the fourth inventory of the forest resources of South Florida in 1970, the area of commercial forest land has increased by 109,000 acres and now totals 834,000 acres. Nonindustrial private landowners control 99 percent of the commercial forest land. The volume of growing stock on these lands has increased by 10 percent. Cypress accounts for 93 percent of the total volume gain. Net annual growth of growing stock totals 21 million cubic feet compared to 16 million cubic feet for annual timber removals.

1778. 57 IB2 SHEFFIELD RAYMOND M., CRAVER GERALD C. Virginia's Pine Resource: an Interim Assessment, 1981. USDA Forest Service Resource Bulletin SE-60 (1981), 12 pages. Volume of yellow pine timber in the coastal plain and southern piedmont of Virginia has increased by 4 percent since 1976. The increase occurred on all ownerships except on farmer-owned woodlands where it declined by 3 percent. Across all ownerships, net annual growth of yellow pine has increased by 2 percent since 1976.
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1780. 57 IB2 SPENCER JOHN S. JR. "Minnesota's Forest Resource, 1977." Proceedings of Minnesota Forest Resource Inventory Conferences. USDA Forest Service General Technical Report NC-64. (1981), pages 38-48.
1781. 57 IB2 WALL BRIAN R. Trends in Commercial Timberland Area in the United States by State and Ownership, 1952-77, with Projections to 2030. USDA Forest Service General Technical Report WO-31 (1981), 26 pages. Commercial timberland area in the United States increased from 1952 until the 1960's, then declined, and is projected to decline further by 2030. Details by section, region, state, and ownership are presented. Projections for USDA Forest Service Administrative Regions are detailed in tables.
1782. 57 IB2 Proceedings of the Blaine House Conference on Forestry. Jan. 21-22, 1981. Department of Conservation, State House Station 22, Augusta, Maine 04333 (1981), 152 pages.
1783. 57 IB3 ANKO B. "Basic Orientation of Forestry in Slovenia." Gozdar Vestn. Slov. J. For., Vol. 37, No. 5 (1979) In Slovenian. Pages 193-197. Cited in Bibliography of Agriculture Vol. 45, No. 2.
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1787. 57 IB3 CUNNINGHAM J.M.M., SEAL D.T. Forestry and Farming in Upland Britain. Occasional Paper No. 6, Forestry Commission, UK. (1980), 244 pages. Cited in Forestry Abstracts Vol. 42, No. 7. Selected papers presented at the British Association for the Advancement of Science, 1979 - particular reference to Scotland.

1788. 57 IB3 FAVRE L.A. "Current Problems of Neuchatel Forest Economics." J. For. Suisse. Schweiz. Z. Forstwes., Vol. 130, No. 1 (1979). In French. Pages 1-6. Cited in Bibliography of Agriculture Vol. 45, No. 2.
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1790. 57 IB3 HERTER J. "Forest Problems in the Sargans-Walensee Region." J. For. Suisse. Schweiz. Z. Forstwes., Vol. 130, No. 1 (1979) In German. Pages 66-69. Cited in Bibliography of Agriculture Vol. 45, No. 2.
1791. 57 IB3 HOLM J. "Timber, the Basis of Forestry (Norway)." Nor. Skogind., Vol. 33, No. 12 (1979) In Norwegian. Pages 292-294. Cited in Bibliography of Agriculture Vol. 45, No. 1.
1792. 57 IB3 IEVINS I. "Forestry in the Czechoslovak Socialist Republic." Mezsaimn Mezrupnieciba, No. 4 (1979) In Latvian. Pages 29-33. Cited in Bibliography of Agriculture Vol. 44, No. 11/12.
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1796. 57 IB3 KNOTHE JERZY "How Poland Integrated Forestry and Forest Industries." Unasylya, Vol. 32, No. 129 (1980), pages 22-25.
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1799. 57 IB3 MATSUI MITSUMA "Japan's Forest Resources." Unasylya, Vol. 32, No. 128 (1980), pages 19-20.
1800. 57 IB3 MATTHEWS J.D. "Observations on Trees and Forests in China." In The Forestry Mission to China 1979. Occasional Paper No. 8, Forestry Commission, UK (1979), pages 27-58. Cited in Forestry

Abstracts Vol. 42, No. 7. Detailed account of most aspects of forestry observed by the mission in 6 of the 12 major vegetation regions of China, describing urban forestry, silviculture in the South and Northeast, and research and education.

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1802. 57 IB3 NEWTON JOHN P. "Wood Supply and Demand in the United Kingdom." Scottish Forestry, Vol. 35, No. 3 (1981), pages 167-172. The major international agencies forecast a developing world shortage of industrial wood after 2000 which will affect those developed nations which have built up advanced processing industries based on imported raw materials and have neglected their own opportunities for self-supply. Nations which have plentiful raw material supplies and can manufacture goods for home use and export will have commercial advantage.
1803. 57 IB3 NOVAK A. "Development of Forest Economy in the Forests of Middle Bohemia according to Historical Sources." Lesnictvi, Vol. 26, No. 3 (1980) In Czech. Pages 276-285. Cited in Bibliography of Agriculture Vol. 44, No. 11/12.
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1898. 57 IE KULAKOV A.K. "From Experiment to Practice." Lesn. Prom-st, No. 6 (1980) In Russian. Pages 16-17. Cited in Bibliography of Agriculture Vol. 44, No. 11/12. Activities of the Siberian Scientific-Research Institute of Forest Industry.
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2011. 57 IIIA3 CUMMING D.G. "Integration of Agriculture and Forestry: Over-wintering Cows with Calves in a Scottish Plantation." Scottish Forestry, Vol. 35, No. 4 (1981), pages 256-266.
2012. 57 IIIA5A BARTELHEIMER P. "Economics of Recreation Forestry and Human Environment." Proceedings, XVII IUFRO World Congress. Division 4. (1981), pages 51-56. Forests all over the world have to meet a growing demand for timber and for social outputs that are not subject to direct measurement in monetary terms. The environmental impacts of forestry are to be identified and evaluated to find the optimal multiple use management and the best allocation of land.
2013. 57 IIIA5A CHRISTENSEN JENS BJERREGAARD "Economics of Recreation Forestry in Scandinavia." In, Proceedings XVII IUFRO World Congress, Division 4 (1981), pages 481-494.

2014. 57 IIIA5A CORDELL H. KEN "The Status and Future of Outdoor Recreation on the South's Private Forests." In, Recreation in the South's Third Forest. 28th Annual For. Symp. La. State Univ. (1979), pages 5-31.
2015. 57 IIIA5A LUST N. "Problems of Forest Recreation in Flanders." Bull. Soc. R. For. Belg. 86, No. 5 (1979) In Dutch. Pages 205-219. Analysis of forest recreation in Flanders, a densely populated and industrialized region with a forest index of less than 8.5 percent. The norm of one ha per 100 inhabitants is proposed. Infrastructure of the recreation forest should be as simple as possible. Material production and ecological functions of the forest must not be neglected.
2016. 57 IIIA5A LUST N., VAN MIEGROET M. "Forestry and Recreation." Tweede Vlaams Wetenschappelijk Congres voor groenvoorziening. Leuven. Sektie III, No. 2 (no date given) In Dutch. Pages 291-338.
2017. 57 IIIA5A SMALL D. "Recreational Potential of the Upland Forests." Occasional Paper No. 6, Forestry Commission, UK. (1980), pages 135-159. Cited in Forestry Abstracts Vol. 42, No. 7.
2018. 57 IIIA5A VYSKOT I.. "Recreational Effect of Spruce Monoculture of Various Structures." Lesnictvi, Vol. 27, No. 5 (1981) In Czech with Russian, English, German, and French abstracts. Pages 439-460. The structure of commercial forest stands has been optimized with regard to production so that no optimum structure for recreation is offered. The society requires multipurpose forestry management to bring into harmony the productive and non-productive functions of the forest.
2019. 57 IIIA5B DRIVER B.L., KNOPF RICHARD C. Some Thoughts on the Quality of Outdoor Recreation Research and Other Constraints on Its Application. Reprinted by K. Chilman (ed.), Social Research in National Parks and Wilderness Areas. USDI National Park Service, Southeast Regional Office, Atlanta, Ga. (1981), pages 85-99. Outdoor recreation research would be applied more if it were of higher quality. Evaluation of past outdoor recreation research, especially that having a social-behavioral orientation constitutes one of the two major sections of this paper. In the second section, two additional constraints on research application are considered, the professional recognition-reward systems within which managers and researchers work, and the basic personality differences between managers and researchers.
2020. 57 IIIA5B HAAS G.E., DRIVER B.L., BROWN P.J. "Measuring Wilderness Recreation Experiences." In Proceedings, Wilderness Psychology Group Annual Conference. Univ. of New Hampshire, Durham. (1980), pages 20-40. Psychological outcomes of wilderness use and five groups of users associated with the outcomes are identified. Discriminant function analysis was used to show how closely the five groups are related and which outcomes contribute most to forming them. A methodology for identifying user groups for planning and management purposes is demonstrated.

2021. 57 IIIA5B JUBENVILLE ALAN "Research Recreationshed: an Experimental Program to Measure Changing Social Values." Proceedings, XVII IUFRO World Congress. Division 4. (1981), pages 519-524. Research recreationshed: social values are determined through monitoring, and specific, controlled experiments are done to test the effects of particular recreation management programs on these values.
2022. 57 IIIA5C POLENO Z. "Management of Recreational Forests." Lesnictvi Cesk Akad Zemed Ustav Vedeckotech Inf Zemed, Vol. 25, No. 10. (1979) In Czech. Pages 945-958. Cited in Bibliography of Agriculture Vol. 45, No. 3.
2023. 57 IIIA5D DASKE D. "Forests and Children." Revue Forestière Française, Vol. 33, No. 1 (1981) In French. Pages 79-83.
2024. 57 IIIA5D ROSSI D., EPP D.J. Estimating the Demand for Outdoor Recreation, a Review of the Literature. Bull. Pa. Agric. Exp. Sta. (1979), 8 pages. Cited in Bibliography of Agriculture Vol. 44, No. 3/4.
2025. 57 IIIA5D TRAKOLIS D., HARDING D.M. "Visitor Satisfaction and Attitudes to Management of Forest Recreation Areas in North Wales." Effects of recreational use on the resource, visitors' perceptions and attitudes, and the relationships between carrying capacity and management objectives were explored in four forest recreation areas in North Wales during the summer of 1977. Visitors derived a high level of satisfaction from their visit to the study areas and the majority of visitors did not consider the provision of additional facilities necessary as a means of increasing their enjoyment. Most visitors would accept some kind of control if use of the areas was heavy. Such findings are important to managing agencies when determining what facilities should be provided and what actions should be taken to adequately manage the resource and the visitors.
2026. 57 IIIA5D VERTRIEST I. Forest and Living Space for the Child. Thesis. Research Center of Silviculture. State University Ghent. (1979) In Dutch. 151 pages. Pedagogical evaluation of forest recreation for children. The author studies by direct inquiry the degree of information on the forest that children between the ages of 6 and 15 possess, and evaluates their motivation for visits to the forest.
2027. 57 IIIA5D WEST PATRICK C. On-Site Social Surveys and the Determination of Social Carrying Capacity in Wildland Recreation Management. USDA Forest Service Research Note NC-264 (1981), 4 pages. On-site surveys of users may fail to measure crowding accurately because long time users who knew the area before it became crowded leave and would not be included in current on-site survey samples. Results from a limited test at the Sylvania Recreation Area in Michigan do not support this displacement thesis. Further research is needed in other settings.
2028. 57 IIIA5E CAMPBELL GENE E., COUNTRYMAN DAVID W. "Comparing Estimated Wilderness Costs among National Forests." Journal of Forestry, Vol. 79, No. 9 (1981), pages 605-607. Marginal cost

curves developed from linear programming models can depict relative wilderness costs among forests and thus assist society in comparing economic trade-offs, making wilderness selections cost-effective, and isolating those forests where wilderness decisions have greatest impact.

2029. 57 IIIA5E DRAEGER WILLIAM C., PETTINGER LAWRENCE R. "Remote Sensing: A Tool for Park Planning and Management." Parks, Vol. 6, No. 3 (1981), pages 1-6.
2030. 57 IIIA5E FISH C. BEN, BURY RICHARD L. "Wilderness Visitor Management: Diversity and Agency Policies." Journal of Forestry, Vol. 79, No. 9 (1981), pages 608-612. Since its inception in 1964, the National Wilderness Preservation System has been managed without formal coordination among its three major agencies (the USDA Forest Service, the National Park Service, and Fish and Wildlife Service of the U.S. Dept. of the Interior). This diversity provides a desirable range of opportunities for activities appropriate to wilderness use, but coordination of agency efforts seems desirable and would enhance efforts for attainment of all wilderness system objectives.
2031. 57 IIIA5E GERASIMOV I.P., PREOBRAZHENSKII V.S. "National Parks As a Form of Territory Utilization and Management for Recreation and Tourist Activities." Izv. Akad. Nauk. SSSR Ser. Geogr., No. 5 (1979) In Russian. Pages 19-24. Cited in Bibliography of Agriculture Vol. 44, No. 7/8.
2032. 57 IIIA5E LUCAS ROBERT C. Redistributing Wilderness Use through Information Supplied to Visitors. USDA Forest Service Research Paper INT-277. (1981), 15 pages. Evaluation of an attempt to influence visitors to redistribute themselves to more lightly used trail heads through an informational brochure. Use patterns did not change in desired ways, although visitors who obtained the brochure before they arrived at the trailhead reported their choices of location were influenced.
2033. 57 IIIA5E TEEGUARDEN DENNIS E. "A Method for Designing Cost-Effective Wilderness Allocation Alternatives." Forest Science, Vol. 27, No. 3 (1981), pages 551-566. Marginal cost of additional wilderness in dollars per acre and per visitor day is relatively negligible up to about 2 million acres. Opportunity cost then increases to a maximum of 74 dollars per potential visitor day if RARE II areas receive the same average level of use as existing wilderness areas. Ecosystem representation goals add to opportunity costs, but diminish to zero for a wilderness allocation goal exceeding three million acres. Results show that of the six RARE II wilderness allocation alternatives that could be evaluated, more are cost effective relative to the least-cost alternatives. The same wilderness area can be provided at substantially less cost; or alternatively, more roadless area could be allocated to wilderness at the same cost.
2034. 57 IIIA5G ANDERSON LINDA M. "Land Use Designations Affect Perception of Scenic Beauty in Forest Landscapes." Forest Science, Vol. 27, No. 2 (1981), pages 392-400. Ninety color slides of

Northern Arizona ponderosa pine forests were rated for scenic quality in conjunction with six land use designations by 106 college students. The labels: commercial timber stand, leased grazing range, national forest, national park, recreation area, and wilderness area; significantly affected judgments of scenic quality, with wilderness area and national park consistently elevating perceived scenic quality and commercial timber stand and leased grazing range consistently reducing it.

2035. 57 IIIA5G OHYAMA H., HASHIZUME N. "Analysis of Trees Density on Greenery Space." Kenkyu Hokoku Bull. Fac. Agric. Meiji Univ. Meiji Daigaku Nogaku-bu, No. 47 (1979) In Japanese. Pages 11-25. Cited in Bibliography of Agriculture Vol. 44, No. 9/10. Conservation and landscape planning of forests and parks in Japan.
2036. 57 IIIA5G ROZSNYAY Z. "Thoughts on Forest Reautification and Forest Esthetics. 1." Forstarchiv., Vol. 50, No. 4 (1979) In German. Pages 72-74 (continued). Cited in Bibliography of Agriculture Vol. 45, No. 2.
2037. 57 IIIA5G TANDY C.R.V. "The Landscape Design of Hill Forests." Occasional Paper No. 6, Forestry Commission, UK. (1980), pages 121-133. Cited in Forestry Abstracts Vol. 42, No. 7.
2038. 57 IIIA5H LUCAS ROBERT C., KOVALICKY THOMAS J. Self-Issued Wilderness Permits as a Use Measurement System. USDA Forest Service Research Paper INT-270 (1981), 18 pages. Self-issued permits appear to have advantages over voluntary trail registers for measuring use.
2039. 57 IIIA5H SHECHTER MORDECHAI, LUCAS ROBERT C. Simulation of Recreational Use for Park and Wilderness Management. Resources for the Future, Inc., Johns Hopkins Univ. Press (1978), 240 pages. If the unique recreational character of the wilderness experience is not to be lost, and if these areas are to compete with demands for other uses of the land, their optimal carrying capacity and yield must be determined. Shechter and Lucas detail the results of a large-scale testing of a model that simulates the travel behavior of wilderness users in one of the most densely used areas in the National Forest Wilderness System, the Desolation Wilderness of California.
2040. 57 IIIA5I DRIVER B.L., HARRIS CHARLES C. "Improving Measurement of the Benefits of Public Outdoor Recreation Programs." Proceedings, XVII IUFRO World Congress. Division 4. (1981), pages 525-537.
2041. 57 IIIA5I GUNDELMANN EGON "Evaluation of the Recreation Evaluation Methods Used in Western Europe." Proceedings, XVII IUFRO World Congress. Division 4. (1981), pages 513-518.
2042. 57 IIIA5I ILLYÉS BENJAMIN, KERESZTESI BÉLA "Economic Assessment of the Recreational Function of Forests in East European Countries." Proceedings, XVII IUFRO World Congress. Division 4. (1981), pages 495-511.
2043. 57 IIIA5I IMANAGA MASAOKI "Economics of the Recreational Function of Forests in Japan." Proceedings, XVII IUFRO World Congress. Division 4. (1981), pages 475-480.

2044. 57 IIIA5I KAISER H. FRED, MARCHETTA JOANNE S. "Evaluation of Outdoor Recreation Evaluation Techniques Being Used in North America." Proceedings, XVII IUFRO World Congress. Division 4. (1981), pages 458-474.
2045. 57 IIIA6 ALEEM A. "A Review of Watershed Management Works Carried Out in Pakistan till June 1978." Pak. J. For., Vol. 29, No. 1 (1979), pages 53-60. Cited in Bibliography of Agriculture Vol. 44, No. 9/10.
2046. 57 IIIA6 GREGERSEN H.M., BROOKS K. "Economic Analysis of Watershed Projects: Special Problems and Examples." In, Economic Analysis of Forestry Projects: Readings. FAO Forestry Paper No. 17, Supp. 2 (1980), pages 133-176. Cited in Forestry Abstracts Vol. 42, No. 7.
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2048. 57 IIIA7 RIEDER M. "Silviculture and Hunting in Thurgau Canton." J. For. Suisse. Schweiz. Z. Forstwes., Vol. 130, No. 1 (1979) In German. Pages 77-80. Cited in Bibliography of Agriculture Vol. 45; No. 2.
2049. 57 IIIA7 SHEFFIELD RAYMOND M. Multiresource Inventories: Techniques for Evaluating Nongame Bird Habitat. USDA Forest Service Research Paper SE-218. (1981), 28 pages. Procedures for evaluating the suitability of forest lands for breeding habitat of individual nongame bird species and entire avian communities. Habitat data are derived from the South Carolina multiresource inventory, and nine nongame bird species are evaluated as examples.
2050. 57 IIIA8 BARTENSTEIN FRED "The Future of Urban Forestry." Journal of Arboriculture, Vol. 7, No. 10 (1981), pages 261-267.
2051. 57 IIIA8 DWYER JOHN F. "Managing Urban Forests for Recreation." Trends, Vol. 17, No. 4 (1980), pages 11-14. Urban recreation resource managers face the challenge of trying to expand their future services without the corresponding increases in available resources.
2052. 57 IIIA8 WAGAR J. ALAN "Urban Forestry Research." Proceedings of the California Symposium on Urban Forestry, 1978. Berkeley, California: Univ. of Calif. (1980), pages 62-63. Summarizes urban forestry research assignments within the Forest Service, emphasis on the role of the Pacific Southwest Forest and Range Experiment Station.
2053. 57 IIIA8 WENDLING ROBERT C., GABRIEL SAMUEL J., DWYER JOHN F., BUCK RICHARD L. "Forest Preserve District of Cook County, Illinois." Journal of Forestry, Vol. 79, No. 9 (1981), pages 602-605. This district's growth and development reflect strong public support for urban forest preservation, environmental education, and outdoor recreation. Management is strongly influenced by heavy use, large

populations in nearby areas, and the high value that urbanites place on forest and related resources.

2054. 57 IIIB1 BARTUNEK J. "Economic Estimation of Production of Spruce Forests." From, Stability of Spruce Forest Ecosystems, International Symposium, Univ. of Agric., Brno, Czechoslovakia (1980), pages 513-517.
2055. 57 IIIB1 GESSEL S.P. "Impacts of Modern Forestry on Continuing Forest Productivity." Proceedings, XVII IUFRO World Congress. Interdivisional. (1981), pages 2-20. Projected consumption of forest products throughout the world and a declining forest land base dictates greater production from each unit of forest land. Forest management practices are being directed toward this goal. Some practices designed to achieve greater immediate productivity are questioned because of possible impact on continuing productivity.
2056. 57 IIIB1 HYPPOENEN M. "Profitability of Some Stand Growing Alternatives in the State Forests of Northern Finland." Folia Forestalia 463 (1981) In Finnish. Pages 1-34. Profitability of three programs of various intensity in different research areas and mineral site types in the state forests of Northern Finland. Present net value and internal rate of return are used as a profitability criteria.
2057. 57 IIIB1 PLOCHMANN RICHARD "Impact of Forestry on Forestry Itself from an Economic and Socio-Economic Point of View." Proceedings, XVII IUFRO World Congress. Interdivisional. (1981), pages 33-48. Determines and discusses the economic and socio-economic impacts and consequences of different sustained production forest management systems on forestry itself. Essential issues for sustained productivity are: (1) not to impair the circulation of nutrients and the nutriment chain; (2) to conserve and restore forests capable of resisting disturbances and of regenerating themselves after interference; (3) to open the opportunity of utilizing fully the production capacity; (4) to create a forest structure and composition which permits a flexible form of management capable of adjusting itself to changing demands of society; and to practice on-site treatments that do not have a detrimental effect on off-site values and adjacent ecosystems.
2058. 57 IIIB1 RUPRICH JIKI. "Economic Efficiency in the Development of Spruce Stands in Czechoslovakian Territory." From, Stability of Spruce Forest Ecosystems, International Symposium, Univ. of Agric., Brno, Czechoslovakia (1980), pages 505-511.
2059. 57 IIIB1 WUNSCH KLAUS A Yield Model Independent of Thinning Regime. Verified for Norway Spruce. Report from Dept. of Forestry, Series 2, No. 11, Denmark. (1981) In Danish with English summary and subtexts. 73 pages.
2060. 57 IIIB3 FLICK WARREN A., HORTON DONALD A. "Virginia's Reforestation of Timberlands Program: An Economic Analysis of the First Six Years." Southern Journal of Applied Forestry, Vol. 5, No. 4 (1981), pages 195-200. Analysis shows the program is

efficient. A benefit-cost analysis of about 3.5 is expected. Rural areas of eastern Virginia will benefit most. The sensitivity of the results to major assumptions is discussed. Landowners, forest industries, and rural laborers are major beneficiaries.

2061. 57 IIIB3 HALLETT R.D., MURRAY T.S. Recent Developments and Current Practices in Forestation in Canada. Canadian Forestry Service, Information Report M-X-116 (1980), 22 pages. In 1968 it was projected that 200,000 ha would be forested annually; it is now evident, with the expansion of forestation programs, that this will be surpassed. At the Canadian Forest Regeneration Conference (1977) it was recognized that forest renewal was inadequate and several needs and deficiencies of forestation were highlighted. New policies and programs are being implemented in most provinces to effectively deal with forest renewal problems. One potential problem relates to the use of herbicides for protection of these forests.
2062. 57 IIIB3 HOLLANDER H., SCHELMER D., BRINKHOFF W. "Opinions and Measures of Local Governments Concerning Reforestation." Aus Walde Mitt-Niedersachs Landesforstverwalt (1979) In German. Pages 120-146. Cited in Bibliography of Agriculture Vol. 45, No. 3.
2063. 57 IIIB3 RODRIGUES M., CAROVALO M.A., STELIAM S., PINTO A.B. "Reforestation: More Than 3.2 Million Hectares of Forest Land (Brazil)." Agric Hoje, Vol. 5, No. 55 (1979) In Portuguese. Pages 28-32. Cited in Bibliography of Agriculture Vol. 44, No. 11/12.
2064. 57 IIIB3 N.C. State University Industry Cooperative Tree Improvement Program. Twenty-Fifth Annual Report. School of Forest Resources, North Carolina State Univ., Raleigh, NC (1981), 61 pages.
2065. 57 IIIB5 KAO CHIANG "Efficient Formulation of Linear Programming Approach to Optimizing the Conversion to Sustained Yield." Quarterly Journal of Chinese Forestry, Vol. 14, No. 3 (1981) In Chinese with an English summary. Pages 4-8. Mathematical method to derive a system with $n+p$ constraints only. Compared with Nautiyal-Pearse's model the benefits are easy formulation and less computer time and memory space.
2066. 57 IIIB5 KLEMPERER W. DAVID "Is Sustained Yield an Ethical Obligation in Public Forest Management Planning?" Proceedings, XVII IUFRO World Congress. Division 4. (1981), pages 421-432.
2067. 57 IIIB5 MALCOLM D.C. "Forest Structure for Continued Timber Production." Occasional Paper No. 6, Forestry Commission, UK. (1980), pages 99-119. Cited in Forestry Abstracts Vol. 42, No. 7.
2068. 57 IIIB5 MOISEEV N.A., SINITSIN S.G. "Sustained Yield as Ethical Obligation in Forest Management Planning." Proceedings, XVII IUFRO World Congress. Division 4. (1981), pages 409-420.
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Scheduling Policies. USDA Forest Service General Technical Report PNW-81. (1979), 20 pages. Expected impacts on the ecosystem and nontimber benefits (people's use of the resources: recreation, hunting, fishing, swimming, etc.) resulting from alternative timber harvest scheduling policies are identified and evaluated for the Mount Hood National Forest. Environmental criteria are established and used in evaluations of timber harvest and management data.

2071. 57 IIID1 KULA E. "Forest Fires in the CSSR." Lesnictvi, Vol. 27, No. 6 (1981) In Czech with Russian, English, German, and French abstracts. Pages 545-566. Between 1974 and 1978 there were 1703 forest fires in the territory of the CSSR. Considering the trends of development in the society, recreational use of the forests will become more frequent, which will increase fire hazards. Complete exclusion of steam engines on the railroads in the CSSR has not removed the chances of forest fires along the railroads. Safety must be stressed.
2072. 57 IIID4 DOUTRELOUX J. "Damage Caused by Deer in the Landes Forests; Its Description and Evaluation." Revue Forestière Française, Vol. 33, No. 1 (1981) In French. Pages 61-78.
2073. 57 IIID4 JACOBI WILLIAM R., ANDERSON ROBERT L., COST NOEL D. Multiresource Inventories: Procedures for Assessing the Damage Caused by Insects and Diseases. USDA Forest Service Research Paper SE-221 (1981), 11 pages. Valuable data on damage to trees by insects and diseases are being gathered in the forest surveys of Southeastern states. The types of damage tallied in these inventories are described, along with examples of the ways in which the data can be tabulated and interpreted.
2074. 57 IIIE BRAND GARY J. "Simulating Timber Management in Lake States Forests. USDA Forest Service General Technical Report NC-69. (1981), 25 pages. Management subsystem to simulate cutting in Lake States forest types. Can be used to test the effect of alternate management strategies.
2075. 57 IIIE BRODNJAK S. "Total Income in Forestry." Gozdar Vestn. Slov. J. For., Vol. 37, No. 4 (1979) In Slovenian. Pages 169-174. Cited in Bibliography of Agriculture Vol. 45, No. 2.
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2078. 57 IIIE LENDERINK H. "Which Management and Production Methods Are Best for Establishing Poplars in the Western Part of the Netherlands." Populier, Vol. 16, No. 2 (1979) In Dutch. Pages 27-33. Cited in Bibliography of Agriculture Vol. 44, No. 9.
2079. 57 IIIE MARTON J. "Economic Aspects of Forest Management." Erdo, Vol. 28, No. 8 (1979) In Hungarian. Pages 341-350. Cited in Bibliography of Agriculture Vol. 45, No. 1.

2080. 57 IIIIE MARTON J. "Potentialities in Forest Planning." Erdo, Vol. 28, No. 2 (1979) in Hungarian. Pages 57-63. Cited in Bibliography of Agriculture Vol. 45, No. 1.
2081. 57 IIIIE MURPHY DENNIS L. Database Management: A Forest Inventory Application. USDA Forest Service, General Technical Report NC-67 (1981), 9 pages. Design and creation of two databases using data from a unit of the fourth Minnesota Forest Inventory and cost effectiveness of each.
2082. 57 IIIIE RICHARDSON MARY LOU, BETTERS DAVID R., SAMPSON GEORGE R. Productivity Equations for Forest Vegetation Treatment Projects in the Colorado Forest Range. USDA Forest Service Research Paper RM-230 (1981), 8 pages. - Regression equations are presented for various forest vegetation treatment methods that relate labor and equipment time to terrain, area treated, and crew efficiency. Equations are applicable to most Front Range areas. Recommendations are made for improving productivity in vegetation management projects, particularly those required for insect control.
2083. 57 IIIIE SAGL WOLFGANG "Business Statistics and Index Figures in Forest Firms." Centralblatt für das Gesamte Forstwesen, Vol. 98, No. 3 (1981) In German with brief English summary. Pages 171-184.
2084. 57 IIIIE SLIVKA J. "Probability and Decision-Making in Forestry." Les (Bratisl), Vol. 35, No. 1 (1979) In Slovak. Pages 5-6. Cited in Bibliography of Agriculture Vol. 45, No. 3.
2085. 57 IIIIE TISSEVERASINGHE A.E.K. "Timber Utilization in the Tropical Lowland Forests." The Commonwealth Forestry Review, Vol. 60, No. 3 (1981), pages 197-205. Fuller utilization of the species found in these forests will give more flexibility to silviculture and management which may lead to a management system that will ensure adequate natural regeneration and make other options more attractive.
2086. 57 IIIIE WALSH J.P. "Silvicultural Costs and Expected Revenue over a Full Production Cycle." Agric. Technol., Vol. 11, No. 1 (1980), pages 6-15. Cited in Bibliography of Agriculture Vol. 44, No. 11/12.
2087. 57 IVA1B BILEK EDWARD M., ELLEFSON PAUL V. "Wood-Based Industry: Trends in Selected Structural and Economic Factors through 1977." Forest Products Journal, Vol. 31, No. 10 (1981), pages 48-54.
2088. 57 IVA1B BLYTH JAMES E. "Minnesota Timber Utilization." Proceedings of Minnesota Forest Resource Inventory Conferences. USDA Forest Service General Technical Report NC-64. (1981), pages 26-37.
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logging and primary mill residues and the disposition of mill residue.

2090. 57 IVA1B MULLINS E.J., MCKNIGHT T.S. Canadian Woods Their Properties and Uses. Third Edition. Univ. of Toronto Press. (1981), 389 pages. Canadian wood-using industries and general properties and uses of Canadian woods. Sixteen chapters discuss wood, its processing, and products, and how these products are used today in Canada.
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2092. 57 IVA1B ROBINSON VERNON L., MONTGOMERY ALBERT A., STRANGE JAMES D. "Economic Growth Goal for Timber in the Southeast." Forest Products Journal, Vol. 31, No. 10 (1981), pages 69-76.
2093. 57 IVA1B RUDERMAN FLORENCE K. Production, Prices, Employment, and Trade in Northwest Forest Industries, First Quarter 1981. USDA Forest Service Pacific Northwest Forest and Range Experiment Station (1981), 47 pages. Current information on the timber situation in Alaska, Washington, Oregon, California, Montana, Idaho, and British Columbia, including data on lumber and plywood production and prices; timber harvest; employment in forest products industries; international trade in logs, pulpwood, chips, lumber, and plywood; log prices in the Pacific Northwest; volume and average prices of stumpage sold by public agencies; and other related items.
2094. 57 IVA1B RUDERMAN FLORENCE K. Production, Prices, Employment, and Trade in Northwest Forest Industries, Third Quarter 1980. USDA Forest Service, Pacific Northwest Forest and Range Experiment Station. (1981), 47 pages. Current information on timber situation in Alaska, Washington, Oregon, California, Montana, Idaho, and British Columbia, including data on lumber and plywood production and prices; timber harvest; employment in forest products industries; international trade in logs, pulpwood, chips, lumber, and plywood; log prices in the Pacific Northwest; volume and average prices of stumpage sold by public agencies; and other related items.
2095. 57 IVA1C BARTUNEK J. "Development of Some Indicators of Forest Production in the CSSR as Forecast for the Period 1986-1990." Lesnictvi, Vol. 27, No. 1 (1981) In Czech with Russian, English, German, and French abstracts. Pages 13-28. Timber volume felled per annum will remain practically at the same level in the given years, in the CSSR it will amount to 17.2-17.5 million cubic meters; volume of silvicultural measures will increase, exploitation of the forest resource will become more intensive; volume of investments will grow, but the rate of growth will be lower than in the seventies; increase in the total volume of production will be moderate because the pattern of logging will remain constant (volume of production is influenced significantly by logging); number of workers will drop slightly; labor productivity will be increased moderately; assortment of commercial timber will be as follows: soft logs and poles 41 percent, soft pulpwood 25 percent, hard logs 12 percent, hard pulpwood and stacked wood 12 percent, other wood 10 percent, level of costs and profits will rise equitably.

2096. 57 IVA1C DORONIN N.A. "Improvement of Industrial Production in (USSR) Forestry." *Leśn. Khoz.* (1979) In Russian. Pages 17-18. Cited in *Bibliography of Agriculture Vol. 44, No. 11/12.*
2097. 57 IVA1C GEISBACHER J., KUTZKY K. "The Present State of Development of the Woodworking and Furniture Industry and the Plans for the Future Development in the Frame of the Ministry for Industry in the Slovak Socialist Republic." *Drevo*, Vol. 34, No. 5 (1979) In Slovak. Pages 121-123. Cited in *Bibliography of Agriculture Vol. 45, No. 2.*
2098. 57 IVA1C HEIKINHEIMO LAURI "Material Constraints on the Forest Industries in Finland." *Proceedings, XVII IUFRO World Congress, Division 4.* (1981), pages 164-172..
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This study utilizes the Capital Asset Pricing model to analyze risk, return, and competition in a major spot log market in Oregon for 1968-1978. Holding period returns on thirteen individual log species and grades were calculated using actual log sales prices and storage costs. Results suggest the market is competitive and that log investors earn a return which approximates the yield on U.S. Treasury bills and log returns do not appear to exhibit any significant amount of systematic or "market related" risk.

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2167. 57 VC2 HAYNES R.W., CONNAUGHTON K.P., ADAMS D.M. Stumpage Price Projections for Selected Western Species. USDA Forest Service Research Note PNW-367 (1980), 14 pages. A procedure for disaggregating regional projections of stumpage prices to the species level, and projections to the year 2030 for selected western species.
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APPENDIX

THESES AND DISSERTATIONS IN PROGRESS IN THE UNITED STATES AND CANADA

The following citations include the student's name followed by the subject of the dissertation or thesis, the institution where the degree is being completed, the degree, and the anticipated date of completion.

1. IB2 SARGENT FREDERICK W. Cost Effective Inventory Control Strategies. A Deterministic Approach under APL. University of Maine. M.S. Forestry (Forest Economics). August 1982.
2. IC BAUGNMAN MELVIN J. Minnesota County Lands: A Delphi Study of Alternative Policies for Funding, Timber Sales, and Land Ownership. University of Minnesota. Ph.D. June 1982.
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8. ID1B WHITMAN DOUGLAS C. Ad Valorem Taxation and Its Effects on Forestry Investments in Mississippi. Mississippi State University. M.S. May 1982.
9. ID4 SMITH LISA ANNETTE Black Americans and Natural Resources as a Career, Why So Few Are Involved. Ohio State University. Master of Science - Natural Resources. December 1982.
10. IE BARBER RICHARD L. Analysis and Prediction of Private Timber Supply Responses in Western Oregon: A Tool for Formulation and Evaluation of Policy Alternatives. Oregon State University. Ph.D. Forest Management (Operations Research/Management Science) July 1982.
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16. IIB3B MCCAY TERRENCE D. Forestry Potential of Penn Virginia Resource Corporation Lands. VPI & SU. M.S. June 1982.
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21. IID1 GARCIA GREGORY M. Economic Model of Factors which Significantly Affect Investment on Timberlands with Special Emphasis on Texas House Bill 1060. Stephen F. Austin State University. Master of Science in Forestry. August 1982.
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26. IIIA5B HARRIS RICHARD L. An Evaluation of Methods Used to Measure Visitor Perception of Ecological Impacts at Wilderness Campsites. Oregon State University. Master of Arts in Interdisciplinary Studies. June 1982.
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