

MINNESOTA TIMBER POLICY OPTIONS: A Classification of Alternatives Contained in the Legislative Commission on Minnesota Resources Timber Development Study

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MINNESOTA TIMBER POLICY OPTIONS:

A Classification of Alternatives Contained in the
Legislative Commission on Minnesota Resources Timber Development Study

College of Forestry^{1/}
University of Minnesota

LCMR TIMBER DEVELOPMENT STUDY

Study Objectives

The Legislative Commission on Minnesota Resources (LCMR) initiated in the fall of 1979 a major study of opportunities to enhance economic development within Minnesota's timber resource sector. The primary objective of the study was to provide information necessary for establishing a sound basis from which to formulate statewide timber resource goals and the policies necessary for their accomplishment. Of major concern to the study were:

- * informational needs of the state legislature, especially policies to address major timber resource issues, legislation necessary to authorize such policies, and programs to implement policies established by legislation;
- * timber production as a forest land use and the impacts of timber and nontimber policies on each other; and
- * identification of alternative policies, legislation, and programs.

Timber Resource Issue Areas

The commission's timber development study focused on major timber resource issues. Eight issue areas were identified for detailed study:

1. timber production as a land use--the role of timber production in the broader context of other forest outputs and other land uses;

2. timber supply--the potential physical and economic supply of harvestable wood from Minnesota's forests;
3. future forest product demand--the role of Minnesota forests in serving new state, national and international markets with existing or newly developed forest products;
4. industrial organization and manufacturing--opportunities for improving the manner in which the forest products industry is organized and means of encouraging manufacturing processes important to meeting consumer demand for wood products;
5. nonindustrial private forests--the role and significance of nonindustrial private forests and the public programs that affect them;
6. county-administered forest lands--the status of county forest lands and the opportunities available for expanding their contribution to statewide economic well-being;
7. scientific information and data--the information needs of the timber resource system and the programs that serve these needs; and
8. program organization and coordination--the roles, functions, and coordination of the various agencies and programs that affect the timber resource system.

Study Results

The timber development study was carried out by George Banzhaf and Company, Milwaukee, Wisconsin, and led to the following reports:

^{1/} Prepared by Paul V. Ellefson, Associate Professor of Forest Economics and Policy; Jay O'Laughlin, formerly Research Assistant; and Richard A. Skok, Dean.

Minnesota Timber Resources: Prospects for Development. Volume I, Executive Summary. November 1980.

Minnesota Timber Resources: Prospects for Development. Volume II, Primary Document. November 1980.

Minnesota Timber Resources: Prospects for Development. Volume III, Methods Document. November 1980.

Procedurally, the company carried out a number of study tasks which eventually led to the above reports. Among the many tasks were: clarification of issues and specification of policy goals; definition of Minnesota's timber resource system, including appraisal of information necessary to do so; specification of analytical models; identification of alternative policies within issue areas; analysis of alternative policies; interpretation of policy analysis; conclusions regarding expected consequences of alternative policies; and presentation of study results.

A variety of information for each issue area was developed by George Banzhaf and Company. For example, general background information regarding the status of the issue area in question, a review of the consequences of alternative policies that might be directed towards an issue, and a summary of policy alternatives. In total, the company identified and discussed the consequences of nearly 200 policy alternatives. The number of policy alternatives by issue areas are:

- timber production as a land use--36 policy alternatives
- timber supply--23 policy alternatives
- future forest products demand--2 policy alternatives
- industrial organization and manufacturing--42 policy alternatives
- nonindustrial private forests--27 policy alternatives
- county-administered forest lands--29 policy alternatives
- scientific information and data--15 policy alternatives
- program organization and coordination--23 policy alternatives

CLASSIFICATION OF TIMBER POLICY OPTIONS

Objectives of Classification

The timber policy options presented by George Banzhaf and Company to the LCMR represent a wealth of information on which public and private organizations can base action. The effectiveness of their action may very well be enhanced if the nearly 200 policy alternatives were more clearly labeled as to the type of action they require (e.g., new laws, change in administrative rules, additional financing) and the organizations having authority (jurisdiction) to act on the policy alternative in question. With such thoughts in mind, a systematic review of the policy alternatives presented to the commission by George Banzhaf and Company was undertaken.

The objectives of the review were to develop a systematic format that encourages further review and discussion of the timber policy alternatives which were presented to the LCMR; identify public organizations that have authority (jurisdiction) to act on timber policy alternatives which were presented to the LCMR (e.g., state legislature, state executive agencies, private organizations); and identify action that would be required to make the forest policy in question a reality if deemed to be technically and economically sound and politically desirable (e.g., new state law, change in administrative rules).

Definitions

The objectives of the review were accomplished by the preparation of a policy matrix which is comprised of four major elements: policy alternatives, policy approaches, policy institutions, and policy instruments.

Policy alternatives are specific courses of action concerning forestry, especially timber as an output of forest land. Forest policy alternatives are specified in Minnesota Timber Resources: Prospects for Development, Volume II, Primary Document.

Policy approaches are general means of pursuing development goals for Minnesota timber resource sector. Policy approaches and subsets are:

- A. Finance
 - a. funding
 - b. taxation
- B. Research and Education
 - a. research
 - b. education

C. Direct Public Production

- a. land ownership
- b. forest inventory
- c. forest administration
- d. forest planning
- e. timber management
- f. timber sales
- g. transportation

D. Regulation

E. Miscellaneous

- a. workers' compensation
- b. other

Policy institutions are public and private organizations that have an interest in and authority to act on a specific timber policy alternative. Policy institutions and subsets are:

A. Minnesota State Government

a. legislature

- 1. policy committees (e.g., House Environment and Natural Resource Committee, Senate Committee on Agricultural and Natural Resources)
- 2. appropriations committees (e.g., Senate Finance Committee, House Appropriations Committee)
- 3. tax committees (e.g., House Taxes Committee, Senate Taxes and Tax Laws Committee)
- 4. Legislative Commission on Waste Management
- 5. Legislative Commission on Minnesota Resources
- 6. Tax Study Commission
- 7. other

b. executive agencies

- 1. Department of Natural Resources, Division of Forestry
- 2. Department of Natural Resources, other divisions - bureau
- 3. Department of Administration
- 4. Department of Economic Development
- 5. Department of Finance
- 6. Department of Labor and Industry
- 7. Department of Revenue
- 8. Department of Transportation
- 9. Pollution Control Agency
- 10. Environmental Quality Board
- 11. State Planning Agency

12. Land Exchange Board

13. other^{2/}

B. Other Public Agencies

- a. USDA Forest Service
- b. other federal agencies
- c. University of Minnesota
- d. regional commissions
- e. county government
- f. other

Policy instruments are major forces which are a final expression of an agreed-to policy alternative. Policy instruments include state law, administrative rule-regulation, executive order, administrative discretion, legal interpretation, and commission recommendation.

Within the policy matrix there have been identified instances where logical relationships exist between a policy alternative and a particular policy approach, institution, and instrument. For example, the policy alternative "Increase funding for the wildlife habitat evaluation program" (Chapter II, Policy Number 27) is judged:

- a. to require a financial approach, especially funding;
- b. to be within the jurisdiction boundaries of the legislature (especially the appropriations committees and LCMR, less so the policy committees) and the Department of Natural Resources (especially the Division of Forestry and related divisions or bureaus); and
- c. to require a change in state law and the exercising of administrative discretion.

Judgements about the relationship between policy alternatives and various policy approaches, institutions, and instruments reflect a variety of viewpoints (e.g., those of legislative staff, resource administrators, educators). Obviously, not all persons reviewing the matrix presented here will agree with each relationship suggested. The matrix does, however, provide opportunity for interested parties to question specified relationships and to redefine them in a manner consistent with a differing perspective.

^{2/} Including: Iron Range Resources and Rehabilitation Board, Department of Economic Security, Energy Agency, Department of Education, Department of Agriculture, Department of Employee Relations, Public Service Commission, Waste Management Board.

POLICY MATRIX

Matrix Notes

- * All forest policy alternatives stated in the matrix originate directly from Minnesota Timber Resources: Prospects for Development. Volume II, Primary Document. George Banzhaf and Company. November 1980.
- * Notation immediately preceding each policy alternative denotes the location of the alternative (chapter and policy number) in Minnesota Timber Resources: Prospects for Development, Volume II. Primary Document.
- * Notations in single parentheses immediately following each policy alternative denote the location of the rationale for the alternative (chapter and page number) as found in Minnesota Timber Resources: Prospects for Development. Volume II, Primary Document.
- * Notations in double parentheses following each policy alternative denote other policy approaches within which the alternative may be found. Notation is as follows:
 - 1a: Finance--funding
 - 1b: Finance--taxation

 - 2a: Research and Education--research
 - 2b: Research and Education--education

 - 3a: Direct Public Production--land ownership
 - 3b: Direct Public Production--forest inventory
 - 3c: Direct Public Production--forest administration
 - 3d: Direct Public Production--forest planning
 - 3e: Direct Public Production--timber management
 - 3f: Direct Public Production--timber sales
 - 3g: Direct Public Production--transportation

 - 4a: Regulation

 - 5a: Miscellaneous--workers' compensation
 - 5b: Miscellaneous--other
- * Notations regarding relationships in matrix:
 - strong jurisdictional relationship exists between a policy alternative and a policy institution and instrument
 - o possible jurisdictional relationship exists between a policy alternative and a policy institution and instrument

Policy Approach: Finance

la: funding

lb: taxation

POLICY APPROACH: Finance--funding		POLICY INSTITUTIONS																POLICY INSTRUMENTS							
		Minnesota State Government														Other Public Agencies		State Law	Administrative Rule-Regulation	Executive Order	Administration Discretion	Legal Interpretation	Commission Recommendation		
		Legislature							Executive Agencies							USDA, Forest Service	Other Federal Agencies								
		Policy Committees	Appropriations Committees	Tax Committees	Leg. Comm. Minn. Resources	Leg. Comm. Waste Management	Tax Study Commission	Other	DNR, Division of Forestry	DNR, Other Divisions-Bureau	Dept. Administration	Dept. Economic Development	Dept. Finance	Dept. Labor and Industry	Dept. Revenue			Dept. Transportation	Pollution Control Agency	Environmental Quality Board	State Planning Agency	Land Exchange Board	Other	University of Minnesota	Regional Commissions
Chapter & No.	Policy Alternatives																								
II-2	Devote funds from Northeast Minnesota Economic Protection Fund to forest development. (p. II-9).		o	•		•		o		•			o					•							•
II-5	Devote rents and royalties from peat mining to increased softwood management on other peatlands. (p. II-11) ((3e)).		•	•	o			•	•																•
II-8	Designate forest land planning as an acceptable use of Land Use Planning Assistance monies. (p. II-15) ((3d)).	•	•					o								•					o				•
II-9	Require that plans using these monies address the use of land for timber production. (p. II-15) ((3d)).	•	•					o								•					o				•
II-13	Target forestry assistance monies to lands zoned as prime. (p. II-16) ((3b)).	•	•	o		o		•										•			o				•
II-15	Institute a woodlands bank program. (p. II-17).	•	o	•	o	o		o							•						o				•
II-27	Increase funding for wildlife habitat evaluation program. (p. II-26).	o	•	•				•	•												o	o			•
II-29	Fund staff positions in forest hydrology and forest soils. (p. II-28) ((3c)).		•	•				•	•											o	o				•
II-30	Fund staff position in landscape architecture. (p. II-30) ((3c)).		•	•				•	•											o	o				•
II-31	Tie funding of reforestation to harvest funding. (p. II-30) ((3e)).	•	•					•													o				•
III-6	Allow expensing or accelerated depreciation of forest roads built on all private lands that provide access in areas deemed desirable by the state. (p. III-19) ((3g)).	•		•				•																	•

* Iron Range Resources & Rehabilitation Board

		POLICY INSTITUTIONS															POLICY INSTRUMENTS																				
		Minnesota State Government												Other Public Agencies																							
		Legislature						Executive Agencies																													
		Policy Committees	Appropriations Committees	Tax Committees	Leg. Comm. Minn. Resources	Leg. Comm. Waste Management	Tax Study Commission	Other	DNR, Division of Forestry	DNR, Other Divisions-Bureau	Dept. Administration	Dept. Economic Development	Dept. Finance	Dept. Labor and Industry	Dept. Revenue	Dept. Transportation	Pollution Control Agency	Environmental Quality Board	State Planning Agency	Land Exchange Board	Other	USDA, Forest Service	Other Federal Agencies	University of Minnesota	Regional Commissions	County Government	Municipal-Township Government	Other	State Law	Administrative Rule-Regulation	Executive Order	Administration Discretion	Legal Interpretation	Commission Recommendation			
Chapter & No.	Policy Alternative																																				
III-7	Provide outright payments to nonindustrial private landowners for forest road construction in areas where a state forest road plan has identified needs for access. (p. III-19) ((3g)).	•	•					•							•															•		•					
III-8	Increase funding, in the short-run, for forest road programs to maintain the current forest road system. (p. III-21) ((3g)).		•	•	•			•								•													•		•						
III-13	Increase legislative appropriation for reforestation activities. (p. III-21) ((3e)).		•		•			•																					•						•		
III-14	Establish a reforestation account similar to the Federal Knutson-Vandenberg principles. (p. III-31) ((3e)).	•	•					•																					•								
III-16	Provide matching funds for tree improvement specialist position. (p. III-35) ((3c)).		•	•				•														•	•						•		•						
III-20	Increase training of rural volunteer fire departments in forest firefighting techniques; increase cost-share programs to maintain adequate reserves. (p. III-38) ((2b)).		•	•				•																													
V-23	Issue industrial revenue bonds by the state. (p. V-20).	•								•	•	•	•										•	•					•	•			•				
V-24	Provide guidance to counties regarding development of industrial revenue bonding policies. (p. V-20).	•	•							•	•	•	•		•										•				•	•			•				
VI-12	Consult with ASCS and Forest Service to develop a cost-share project contract that would require reimbursement if owners did not follow management plan. (p. VI-18) ((3a)).							•														•	•												•		

POLICY APPROACH: Finance--funding		POLICY INSTITUTIONS																POLICY INSTRUMENTS									
		Minnesota State Government														Other Public Agencies		State Law	Administrative Rule-Regulation	Executive Order	Administration Discretion	Legal Interpretation	Commission Recommendation				
		Legislature						Executive Agencies								Other Public Agencies											
		Policy Committees	Appropriations Committees	Tax Committees	Leg. Comm. Minn. Resources	Leg. Comm. Waste Management	Tax Study Commission	Other	DNR, Division of Forestry	DNR, Other Divisions-Bureau	Dept. Administration	Dept. Economic Development	Dept. Finance	Dept. Labor and Industry	Dept. Revenue	Dept. Transportation	Pollution Control Agency							Environmental Quality Board	State Planning Agency	Land Exchange Board	Other
Chapter & No.	Policy Alternative																										
VI-13	Consult with ASCS and Forest Service to revise procedures to make cost-sharing more effective. (p. VI-18) ((3c)).																										
VI-15	Use state cost-share for separate projects with separate standards on "supply zone" and cost-benefit basis. (p. VI-19) ((3e)).																										
VII-17	Establish DNR review of county forest cutting budgets and/or forest management plans. (p. VII-15) ((3d)).																										
VII-18	Establish uniform standards for county forest cost accounting and/or investment analysis. (p. VII-15) ((3d)).																										
VII-23	Jointly fund and staff state and county forest inventories. (p. VII-20) ((3b)).																										
VIII-10	Establish and fund an Institute of Research as authorized by MSA 137.11. (p. VIII-22) ((2a)).																										
IX-1	Raise, index to inflation, or remove the \$500,000 limit on deductions from timber sale receipts on school trust lands within state forest boundaries. (p. IX-6) ((3f)).																										
IX-2	Create timber development funds for all state-owned forest lands. (p. IX-6).																										
IX-3	Allow emergency fire-fighting appropriations to be carried into succeeding biennia. (p. IX-7).																										
IX-4	Divert a portion of rural property tax revenues into an emergency fire-fighting fund. (p. IX-8).																										

		POLICY INSTITUTIONS																			POLICY INSTRUMENTS														
		Minnesota State Government													Other Public Agencies																				
		Legislature							Executive Agencies																										
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Chapter & No.	Policy Approach: Finance--funding Policy Alternative																																		
IX-10	Provide funds to enable Division of Forestry personnel to participate in regional and national educational programs. (p. IX-18) ((2b)).		•					•																					•						
IX-12	Create land adjustment funds to facilitate acquisition and disposal of state lands. (p. IX-22) ((3a)).		•					•	•	•										•*		•				•		•		•					
IX-22	Require the Division of Forestry to tie its budget requests to program levels contained in the MFRP. (p. IX-41) ((3d)).	•	•	•				•															•				•								

* Department of Economic Security

POLICY APPROACH: Finance--taxation		POLICY INSTITUTIONS														POLICY INSTRUMENTS													
		Minnesota State Government											Other Public Agencies			State Law	Administrative Rule-Regulation	Executive Order	Administration Discretion	Legal Interpretation	Commission Recommendation								
		Legislature					Executive Agencies						USDA, Forest Service	Other Federal Agencies	University of Minnesota							Regional Commissions	County Government	Municipal-Township Government	Other				
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Chapter & No.	Policy Alternative																												
II-12	Combine prime forest land designation with required timber tax policies. (p. II-16) ((3b)).	•		•				•																				•	
II-16	Provide a tax credit to lands enrolled in the Agricultural Property Tax for maintaining woodlands. (p. II-18).			•		•		•																		•			
II-17	Exempt forest lands from property taxation. (p. II-18).			•		•																					•		
II-18	Abolish the property tax. (p. II-19).			•		•					•																•		
II-19	Institute a graduated capital gains tax on land. (p. II-19).			•		•							•													•			
III-11	Provide tax credits to firms, institutions that pursue wood-residue for energy purposes. (p. III-24).		•	•		•								•													•		
IV-2	Encourage expansion of printing industry in Minnesota to foster future paper demand. (p. IV-25) ((4a)).	•	•	•		•				•	•	•	•	•	•	•	•	•	•	•									
V-22	Encourage recycling of paper through municipal programs, tax incentives. (p. V-19).			•		•					•	•	•	•	•	•	•	•	•	•									
V-32	Reduce state income taxes. (p. V-26).	•	•	•		•				•	•	•	•	•	•	•	•	•	•	•									
V-33	Adopt federal tax code provisions which allow timber owned or held under contract to be taxed at capital gains rate when sold or used internally. (p. V-26).	•	•	•		•																							

* Energy Agency
 ** Waste Management Board

		POLICY INSTITUTIONS																	POLICY INSTRUMENTS																	
		Minnesota State Government											Other Public Agencies																							
		Legislature					Executive Agencies																													
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Chapter & No.	Policy Alternative																																			
V-34	Adopt federal tax code provisions which allow timber owned to be taxed at capital gains rate when sold or used internally. (p. V-26).		o	e		e							e															e								
V-35	Liberalize expensing and depreciation of timber investments. (p. V-27).		o	e		e							e															e	e		o					
V-36	Exempt trees planted for afforestation and reforestation from property taxes. (p. V-28).			e		e	o																e					e				e				
V-37	Liberalize depreciation of industrial equipment. (p. V-29).			e		e							e															e				e				
V-38	Increase pollution control incentives. (p. V-29).	e		e		e							e		e	o						e						e			e					
V-39	Provide energy conservation or conversion incentives. (p. V-30).	e		e		e							e							e*								e			e					
VI-14	Tax primary softwood products to create a cost-share fund for conifer reforestation. (p. VI-19) ((3e)).	e	e	e		e	e						o										o	o				e								
VI-16	Adopt the federal reforestation tax provisions and provide a tax credit for reforestation costs. (p. VI-21).			e		e							e															e					e			
VI-17	Revise the requirements and renew permission for entry under the Auxiliary Forest Law. (p. VI-22).			e		e	e																					e						e		
VI-18	Base tree growth tax on actual value growth. (p. VI-23).			e		e	e																					e						e		
VI-19	Reduce tax rate under the Tree Growth Tax Law. (p. VI-23).			e		e	e																					e						e		

* Energy Agency

		POLICY INSTITUTIONS																POLICY INSTRUMENTS																			
		Minnesota State Government												Other Public Agencies																							
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Chapter & No.	Policy Alternative																																				
VI-20	Require a contract tied to the land for management according to an approved plan for entry under the Tree Growth Law. (p. VI-24) ((3c))	o		o				o																												o	
VI-21	Mandate county approval of qualifying applications under Tree Growth Tax Law. (p. VI-24).			o																																o	
VI-22	Mandate county approval for 3e classification and loosen the timber use restriction. (p. VI-25).			o				o																												o	
VI-23	Make payments in lieu of taxes to counties for land enrolled under the Auxiliary Forest Law, Tree Growth Tax Law, or 3e property classification. (p. VI-25).	o	o	o				o						o																						o	
VII-19	Create an earmarked state tax fund to support state and county forestry. (p. VII-17).	o	o	o	o			o				o		o																						o	
VII-20	Specify performance criteria for county eligibility for payments in lieu of taxes. (p. VII-18).	o		o																																	o
VII-21	Adopt a preamble to the payments in lieu of taxes law which would establish statewide public benefits from county lands as the rationale for the payments. (p. VII-19).	o	o																																		o
VII-22	Change name of the payments from "payments in lieu of taxes" to "compensation for public benefits." (p. VII-20). See also IX-4 in 1a. Finance--funding.	o	o																																		o

Policy Approach: Research and Education

2a: research

2b: education

POLICY APPROACH: Research and Education-- research		POLICY INSTITUTIONS															POLICY INSTRUMENTS																							
		Minnesota State Government												Other Public Agencies			State Law	Administrative Rule-Regulation	Executive Order	Administration Discretion	Legal Interpretation	Commission Recommendation																		
		Legislature						Executive Agencies						USDA, Forest Service	Other Federal Agencies	University of Minnesota							Regional Commissions	County Government	Municipal-Township Government	Other														
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Chapter & No.	Policy Alternative																																							
II-26	Conduct research on nongame wildlife habitat needs and demand for nongame wildlife. (p. II-26).																																							
II-33	Research possibilities of combining pasture and tree cropping. (p. II-32).																																							
III-18	Conduct a study of the cost-effectiveness of the state fire protection program. (p. III-37) ((3e)).																																							
III-22	Establish a forest insect and disease working group to further define problem areas, establish coordinated program efforts, and aid in information transfer to the general public. (p. III-40) ((2b)).																																							
V-13	Study long-term timber sale policy developed by the University of Michigan and monitor its subsequent progress in Michigan. (p. V-13) ((3f)).																																							
V-14	Provide long-range information on public timber sales. (p. V-13) ((3f)).																																							
VI-6	Keep informed of Maine Landowner Cooperative experience for possible use as a model for Minnesota. (p. VI-12) ((3a)).																																							
VIII-1	Continue to encourage comprehensive planning among institutions conducting research programs by expanding existing efforts such as the National-Regional Agricultural Research Planning System to include other public and private sectors. (p. VIII-7).																																							

POLICY APPROACH: Research and Education-- research		POLICY INSTITUTIONS																POLICY INSTRUMENTS																			
		Minnesota State Government												Other Public Agencies																							
		Legislature						Executive Agencies																													
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Chapter & No.	Policy Alternative																																				
VIII-2	Establish inter-agency groups, such as the proposed Great Lakes Center for Management of Non-Federal, Public Forest Lands, to facilitate communication between researchers and users of research. (p. VIII-8).																																				
VIII-3	Make distinctions among forestry-related problems requiring administrative or policy actions rather than research efforts. (p. VIII-11) ((3c)).																																				
VIII-4	Using the USDA Forest Service's RPA (Resources Planning Act) assessment document as a framework, select proposed forestry research programs to meet real information needs. (p. VIII-17).																																				
VIII-5	Support open channels of communication between researchers and users of research findings, through mass media outlets and increased personal contacts. (p. VIII-18) ((2b)).																																				
VIII-6	Facilitate interactions among researchers, research administrators, practitioners, and information transfer specialists through training and continuing education programs including workshops, seminars, short courses. (p. VIII-19) ((2b)).																																				

POLICY APPROACH: Research and Education-- research		POLICY INSTITUTIONS															POLICY INSTRUMENTS																				
		Minnesota State Government										Other Public Agencies																									
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VIII-7	Support efforts to increase public awareness of forestry research programs in progress by sponsoring workshops, seminars, short courses. (p. VIII-19) ((2b)).	•					•	○							•	•	•				•																
VIII-8	Investigate possibilities of using online information transfer systems to disseminate existing scientific information and data through a centralized information center or a network of decentralized field information centers. (p. VIII-19).						•	•	•							•					○																
VIII-9	Continue to encourage efficient information transfer systems to be developed by the Agricultural Extension Service, possibly working with the Department of Natural Resources and the state and private forestry offices of the Forest Service. (p. VIII-19) ((3c)).						•														○	○	•														
VIII-10	Establish and fund an Institute of Research as authorized by MSA 137.11. (p. VIII-12) ((1a)).	○	•																		•							•	○								

POLICY APPROACH: Research and Education-- education		POLICY INSTITUTIONS																	POLICY INSTRUMENTS																	
		Minnesota State Government														Other Public Agencies																				
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Chapter & No.	Policy Alternative																																			
II-14	Increase educational efforts in large lot zones. (p. II-16).	•					•										•				•		•					•					•			
III-20	Increase training of rural volunteer fire departments in forest fire-fighting techniques; increase cost-share programs to maintain adequate reserves. (p. III-38) ((1a)).	•		•			•														•		•					•								
III-22	Establish a forest insect and disease working group to further define problem areas, establish coordinated program efforts, and aid in information transfer to the general public. (p. III-40) ((2a)).						•														•	o	•		o			•						o		
VI-9	Expand the Extension education program for NIPF landowners. (p. VI-14).	•		•																		•	•	•		•		•						•		•
VI-10	Produce a periodical bulletin with resource management information combined with a price and market review. (p. VI-15).	•					•															•	•	•			•							•		•
VI-11	Transfer the education responsibility from Extension to the DNR. (p. VI-15).	•	•				•	o														•	•	•			•									
VIII-5	Support open channels of communication between researchers and users of research findings through mass media outlets and increased personal contacts. (p. VIII-18) ((2a)).	•					•	o								•	•	•						o								•				
VIII-6	Facilitate interactions among researchers, research administrators, practitioners, and information transfer specialists through training and continuing education programs including workshops, seminars, short courses. (p. VIII-19) ((2a)).	•					•	o							•	•	•					•	•	•		o						•				

POLICY APPROACH: Research and Education-- education		POLICY INSTITUTIONS																POLICY INSTRUMENTS																			
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Chapter & No.	Policy Alternative																																				
VIII-7	Support efforts to increase public awareness of forestry research programs in progress by sponsoring workshops, seminars, short courses. (p. VIII-19) ((2a)).		•				•	o							•	•	•		o												•						
VIII-11	Facilitate responsible and innovative forestry-related training and continuing education programs aimed at timber and nontimber resources topics. (p. VIII-23).	•	•	•			•												•*		•	o	•		o			•		•		•					
IX-9	Establish a cooperative continuing education program for public and private foresters. (p. IX-17).	•	•	•			•												•*		•	o	•		•		•		•		•		•				
IX-10	Provide funds to enable Division of Forestry personnel to participate in regional and national educational programs. (p. IX-18). ((1a)).	•					•												•*		•	o	•		•			•		•		•					

* Department of Education

Policy Approach: Direct Public Production

3a: land ownership

3b: forest inventory

3c: forest administration

3d: forest planning

3e: timber management

3f: timber sales

3g: transportation

POLICY APPROACH: Direct Public Production-- land ownership		POLICY INSTITUTIONS																				POLICY INSTRUMENTS												
		Minnesota State Government															Other Public Agencies																	
		Legislature					Executive Agencies																											
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Chapter & No.	Policy Alternative																																	
V-1	Sell public lands to industry. (p. V-4).	•					•	•								•					•	•	•	•		•	•	•	•					
V-2	Lease public lands to industry. (p. V-4).	•					•	•								•					•	•	•	•		•	•	•	•					
V-3	Create cooperative sustained yield units. (p. V-4).	•					•	•													•	•	•	•		•	•	•	•					
V-4	Utilize land exchange rather than acquisition for creation of conservation areas, rights-of-ways, etc. (p. V-7).	•						•	•					•		•					•	•	•	•		•	•	•	•					
VI-5	Offer to accept leases of private lands within state forests for coordinated management. (p. VI-12) ((3c)).	•	•					•															•			•								
VI-6	Keep informed of Maine Landowner Cooperative experience for possible use as a model for Minnesota. (p. VI-12) ((2a)).		•					•													•	•							•				•	
VI-7	Have PFM foresters and Extension Service personnel assist in organizing owners. (p. VI-13) ((3c)).							•																										
VI-12	Consult with ASCS and Forest Service to develop a cost-share project contract that would require reimbursement if owners did not follow management plans. (p. VI-18) ((1a)).							•													•	•												
VII-1	State could pursue public objectives in county forests. (p. VII-1) ((3e)).	•						•																			•	•	•	•				
VII-2	State could leave management of county forests to county decision. (p. VII-1) ((3e)).	•						•																			•	•	•	•				
VII-3	Clarify intent of MS 282.01 regarding disposal of tax-forfeited lands. (p. VII-4).	•						•																		•	•	•	•					

POLICY APPROACH: Direct Public Production-- land ownership		POLICY INSTITUTIONS													POLICY INSTRUMENTS																			
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Chapter & No.	Policy Alternative																																	
VII-4	Establish two additional criteria for retention-disposal decisions; <u>i.e.</u> , whether a parcel is a logical part of a public forest management unit, and whether adequate information is available to guide decisions. (p. VII-5).	•						•										•				o	o											
VII-5	Establish a procedure to assure consideration of all land classification criteria in disposal decisions. (p. VII-6).	•	•					•										•										•						
VII-6	Discontinue DNR commissioner's approval of county land disposals. (p. VII-7).	•						•																•										
VII-7	Extend DNR commissioner's approval for disposal of any county forest lands. (p. VII-7).	•						•																										
VII-8	Require establishment of a forest planning and policy advisory council for each county forest with a specified membership composition. (p. VII-8) ((3c)).							•																			•	•						
VII-9	Require approval of any county land disposals by the forest policy advisory council. (p. VII-8).	•						o																										
VII-10	Establish a procedure for review and comment on county disposals by the state Environmental Quality Board and Department of Transportation. (p. VII-8).							•					•		•													•						
VII-11	Clarify the purposes of the veterans' purchase law, MS 282.031. (p. VII-9).	•																										•						
VII-12	Assure implementation of the purposes of the veterans' purchase law by use of deed restrictions. (p. VII-10).																												•					

POLICY APPROACH: Direct Public Production-- land ownership		POLICY INSTITUTIONS													POLICY INSTRUMENTS																							
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Chapter & No.	Policy Alternative																																					
VII-13	County lands suitable for agriculture could be leased rather than sold. (p. VII-10).																																					
VII-14	Return "50-50 lands" to county management where this would improve blocking and management efficiency. (p. VII-12).	•																																				
IX-11	Repeal the requirement that trust fund lands be condemned before they can be exchanged. (p. IX-21).	•																																				
IX-12	Create land adjustment funds to facilitate acquisition and disposal of state lands. (p. IX-22) ((1a)).		•																																			
IX-13	Formulate a statewide land adjustment plan. (p. IX-23) ((3d)).																																					
IX-14	Authorize the DNR and counties to enter into cooperative forest management agreements with neighboring landowners. (p. IX-24).	•																																				

* Department of Economic Security

Chapter & No.	Policy Alternative	POLICY INSTITUTIONS																				POLICY INSTRUMENTS								
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II-3	Designate which lands will be allowed to develop for cooper/nickel mining within the next rotation. (p. II-10).																													
II-4	Prohibit leasing of peatlands that are prime forest lands. (p. II-11) ((4a)).																													
II-10	Identify prime forest lands. (p. II-15).																													
II-11	Require counties to zone prime forest lands. (p. II-15).																													
II-12	Combine prime forest land designation with required timber tax policies. (p. II-16) ((1b)).																													
II-13	Target forestry assistance monies to lands zoned as prime. (p. II-16).																													
VI-3	Concentrate technical assistance efforts in geographic "supply zones" where timber is in greatest demand. (p. VI-10) ((3c)).																													
VII-23	Jointly fund and staff state and county forest inventories. (p. VII-20) ((1a)).																													
VIII-12	Coordinate planning of forest inventory systems, making use of recently passed federal laws that provide financial, technical, and related assistance to assemble, analyze, display, and report timber resource data. (p. VIII-29).																													

		POLICY INSTITUTIONS													POLICY INSTRUMENTS					
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Chapter & No.	Policy Alternative																			
VIII-13	Continue to encourage integrated and comprehensive applications of knowledge obtained from different forest inventory systems by supporting efforts to better format inventory data, and to improve communication methods. (p. VIII-30).	•		•			•	•										•		
VIII-14	Expand the Minnesota Land Management Information System to better facilitate location-specific, multipurpose timber and nontimber inventory information. (p. VIII-30).		•	•			•	•									•			•
VIII-15	Support forest inventory systems that describe site potentials, for both timber and nontimber resources, and stand conditions for improved planning and land use classification, as being accomplished under Phase I for the statewide forest inventory. (p. VIII-30) ((3d)).	•	•	•			•	•			•						•			•

POLICY APPROACH: Direct Public Production-- forest inventory

POLICY APPROACH: Direct Public Production-- forest administration		POLICY INSTITUTIONS																POLICY INSTRUMENTS																			
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Chapter & No.	Policy Alternative																																				
II-1 II-29	Create a farm-forestry committee. (p. II-9). Fund staff positions in forest hydrology and forest soils. (p. II-28) ((1a)).	o	o				o			o									o*	o	o	o		o			o		o	o	o						
II-30	Fund staff position in landscape architecture. (p. II-30) ((1a)).																																				
III-16	Provide matching funds for tree improvement specialist position. (p. III-35) ((1a)).																																				
III-21	Increase legislative appropriations to create two additional forest pest specialist positions in the DNR. (Each administrative region would then have one field specialist.) (p. III-40).																																				
VI-1	Assign PFM work to full-time staff personnel. (p. VI-9).																																				
VI-2	Set minimum criteria for assistance to improve effectiveness and provide staffing to meet all qualifying requests. (p. VI-9).																																				
VI-3	Concentrate technical assistance efforts in geographic "supply zones" where timber is in greatest demand. (p. VI-10) ((3b)).																																				
VI-4	Further limit PFM services to encourage the use of private consultants. (p. VI-10).																																				
VI-7	Have PFM foresters and Extension Service personnel assist in organizing owners. (p. VI-13) ((3a)).																																				
VI-8	Establish forest development districts. (p. VI-13).																																				

* Department of Agriculture

POLICY APPROACH: Direct Public Production-- forest administration		POLICY INSTITUTIONS													POLICY INSTRUMENTS																							
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Chapter & No.	Policy Alternative																																					
VI-13	Consult with ASCS and Forest Service to revise procedures to make cost-sharing more effective. (p. VI-18) ((1a)).						•														•																	
VI-26	Require foresters who provide service to private landowners to be licensed. (p. VI-30) ((4a)).	•					•																															
VI-27	Provide for voluntary registration of foresters. (p. VI-30) ((4a)).	•					•																															
VII-8	Require establishment of a forest planning and policy advisory council for each county forest with a specified membership composition. (p. VII-8) ((3a)).						•																															
VII-26	Revise state forest district boundaries to conform to county boundaries. (p. VII-22).						•																															
VII-27	Establish a joint state and county program for training of forestry staffs. (p. VII-23).	•	o				•																															
VII-28	Provide specialist services to counties through County Assistance Program. (p. VII-23).						•																															
VII-29	Require counties to establish forest advisory councils to obtain broad public representation in forest policy. (p. VII-25).	•					o																															
VIII-3	Make distinctions among forestry-related problems requiring administrative or policy actions rather than research efforts. (p. VIII-11) ((2a)).	o					•															•																

POLICY APPROACH: Direct Public Production-- forest administration		POLICY INSTITUTIONS														POLICY INSTRUMENTS														
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Chapter & No.	Policy Alternative																													
VIII-9	Continue to encourage efficient information transfer systems to be developed by the Agricultural Extension Service, possibly working with Department of Natural Resources and the state and private forestry offices of the Forest Service. (p. VIII-19) ((2a)).	o						e	o												e						e			
IX-5	Adjust the boundaries of administrative units and/or state forests. (p. IX-12).	e	e		e			e										o									e			
IX-6	Designate administrative units as planning units and discontinue planning on a state forest basis. (p. IX-14) ((3d)).							e	o									o											e	
IX-7	Require a 4-year forestry degree for professional forestry positions in the Division of Forestry. (p. IX-15) ((4a)).										e																		e	
IX-8	Eliminate the "in-house" experience requirement of candidates for supervisory forester positions. (p. IX-16).											e																	e	
IX-15	Encourage bilateral agreements between state agencies and Division of Forestry. (p. IX-28).	e			e			e	o		o		o		o	o	o									o	o	o		
IX-16	Establish a state forestry advisory committee. (p. IX-30).							e																					e	
IX-20	Approve the appointment of a permanent planning staff in Division of Forestry. (p. IX-40) ((3d)).	e	e		e			e																					e	

POLICY APPROACH: Direct Public Production-- forest planning		POLICY INSTITUTIONS												POLICY INSTRUMENTS															
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Chapter & No.	Policy Alternative																												
II-8	Designate forest land planning as an acceptable use of Land Use Planning Assistance monies. (p. II-15) ((1a)).	•	•				o																						
II-9	Require that plans using these monies address the use of land for timber production. (p. II-15) ((1a)).	•	•				o											•			o	o							
II-28	Establish a forest road plan. (p. II-28) ((3g)).		•	•			•	o				•					o			o	o	o	o	•			•	•	
III-5	Assess current and future state and county forest road system needs and develop a comprehensive state forest road plan. (p. III-18) ((3g)).	•		•			•	o	o				o					•			o	o	o	o	•			•	•
VII-17	Establish DNR review of county forest cutting budgets and/or forest management plans. (p. VII-15) ((1a)).																												•
VII-18	Establish uniform standards for county forest cost accounting and/or investment analysis. (p. VII-15) ((1a)).	•	•	o			•			o											•							•	o
VIII-15	Support forest inventory systems that describe site potentials for both timber and nontimber resources, and stand conditions for improved planning and land use classification, as being accomplished under Phase I for the statewide forest inventory. (p. VIII-30) ((3b)).	•	•	o			•	•	•									•			o	o	o	o	o				o
IX-6	Designate administrative units as planning units, and discontinue planning on a state forest basis. (p. IX-14) ((3c)).							o																					
IX-13	Formulate a statewide land adjustment plan. (p. IX-23) ((3a)).						•	•									o												•

POLICY APPROACH: Direct Public Production-- forest planning		POLICY INSTITUTIONS													POLICY INSTRUMENTS																			
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Chapter & No.	Policy Alternative																																	
IX-17	Prescribe public participation processes to be used in the Minnesota Forest Resource Plan (MFRP). (p. IX-36).	o			o			•																			o							
IX-18	Conduct public participation processes for the MFRP through the Legislative Commission on Minnesota Resources. (p. IX-37).				•																										•			
IX-19	Require that the Division of Forestry update the MFRP at specified time intervals. (p. IX-39).	•			•																						o					•		
IX-20	Approve appointment of a permanent planning staff in Division of Forestry. (p. IX-40) ((3c)).	•	•		•			•																			•						•	
IX-21	Legally define the purpose and scope of the MFRP. (p. IX-40).	•			•																						•						•	
IX-22	Require the Division of Forestry to tie its budget requests to program levels contained in the MFRP. (p. IX-41) ((1a)).	•	•		o			•																			•							
IX-23	Address the purpose, scope, and processes for statewide forest planning in comprehensive planning legislation. (p. IX-41).	•																											•					

POLICY APPROACH: Direct Public Production-- timber management		POLICY INSTITUTIONS																	POLICY INSTRUMENTS																					
		Minnesota State Government														Other Public Agencies			State Law	Administrative Rule-Regulation	Executive Order	Administration Discretion	Legal Interpretation	Commission Recommendation																
		Legislature						Executive Agencies																																
		Policy Committees	Appropriations Committees	Tax Committees	Leg. Comm. Minn. Resources	Leg. Comm. Waste Management	Tax Study Commission	Other	DNR, Division of Forestry	DNR, Other Divisions-Bureau	Dept. Administration	Dept. Economic Development	Dept. Finance	Dept. Labor and Industry	Dept. Revenue	Dept. Transportation	Pollution Control Agency	Environmental Quality Board	State Planning Agency	Land Exchange Board	Other	USDA, Forest Service	Other Federal Agencies	University of Minnesota	Regional Commissions	County Government	Municipal-Township Government	Other												
Chapter & No.	Policy Alternative																																							
II-5	Devote rents and royalties from peat mining to increased softwood management on other peatlands. (p. II-11) ((1a)).		•	•	o			•	•																														o	
II-20	Institute a forest practices act. (p. II-20) ((4a)).	•																																						
II-21	Formulate a state policy on the use of herbicides. (p. II-21) ((4a)).	•						•	•													o	o																	
II-24	Limit size of plantations. (p. II-25).	•	o					•	•													•	•	•		•														
II-25	Prioritize nursery and tree improvement programs to species meeting both timber and wildlife needs. (p. II-25).	•		•				•														•	•	•	•															
II-31	Tie funding of reforestation to harvest funding. (p. II-30) ((1a)).	•	•					•														•	•	•	•															
II-32	Coordinate timber harvesting demonstration projects with Division of Tourism. (p. II-31).							•		•												•	•	•	•															
II-34	Expand Outdoor Recreation System to include a timber management unit. (p. II-33).	•																																						
II-35	Practice multiple use management on all state lands with sawtimber production concentrated in recreation areas. (p. II-33).																																							
II-36	Intensively manage small areas for timber production. (p. II-34).	o						•	•																															
III-1	Allow flexibility in recommended harvest levels to permit increased cutting to capture market opportunities during peak business cycles. (p. III-13).	•						•														•	•	•	•															

POLICY APPROACH: Direct Public Production-- timber management		POLICY INSTITUTIONS															POLICY INSTRUMENTS															
		Minnesota State Government										Other Public Agencies					State Law	Administrative Rule-Regulation	Executive Order	Administration Discretion	Legal Interpretation	Commission Recommendation										
		Legislature					Executive Agencies					USDA, Forest Service	Other Federal Agencies	University of Minnesota	Regional Commissions	County Government							Municipal-Township Government	Other								
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Chapter & No.	Policy Alternative																															
III-2	Pool state and county lands for determination of annual allowable cut. (p. III-13).																															
III-9	Use lump-sum sales to promote more harvest residue recovery. (p. III-23) ((3f)).																															
III-10	Use lower base-price schedule for low-value, low-density stands to encourage cutting. (p. III-24) ((3f)).																															
III-12	Provide residential fuelwood marketing areas to act as clearing yards for nonmerchtable material. (p. III-25) ((3f)).																															
III-13	Increase legislative appropriation for reforestation activities. (p. III-31) ((1a)).																															
III-14	Establish a reforestation account similar to the Federal Knutson-Vandenberg principles. (p. III-31) ((1a)).																															
III-15	Pursue conversion of poor-medium hardwood sites to softwood forest types. (p. III-34).																															
III-17	Step up thinning in areas where aesthetics or sawlog production is desired. (p. III-36).																															
III-18	Conduct a study of the cost-effectiveness of the state fire protection program. (p. III-37) ((2a)).																															
III-19	Pursue increased presuppression contracting to facilitate smooth fire emergency operations. (p. III-38).																															
III-23	Enact forest practice legislation to guarantee desired harvest, utilization, reforestation practices. (p. III-41) ((4a)).																															

POLICY APPROACH: Direct Public Production-- timber management		POLICY INSTITUTIONS																	POLICY INSTRUMENTS																							
		Minnesota State Government												Other Public Agencies																												
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		Policy Committees	Appropriations Committees	Tax Committees	Leg. Comm. Minn. Resources	Leg. Comm. Waste Management	Tax Study Commission	Other	DNR, Division of Forestry	DNR, Other Divisions-Bureau	Dept. Administration	Dept. Economic Development	Dept. Finance	Dept. Labor and Industry	Dept. Revenue	Dept. Transportation	Pollution Control Agency	Environmental Quality Board	State Planning Agency	Land Exchange Board	Other	USDA, Forest Service	Other Federal Agencies	University of Minnesota	Regional Commissions	County Government	Municipal-Township Government	Other	State Law	Administrative Rule-Regulation	Executive Order	Administration Discretion	Legal Interpretation	Commission Recommendation								
Chapter & No.	Policy Alternative																																									
VI-5	Offer to accept leases of private lands within state forests for coordinated management. (p. VI-12) ((3a)).	•	•				•																•				•															
VI-14	Tax primary softwood products to create a cost-share fund for conifer reforestation. (p. VI-19) ((1b)).	•	•	•		•	•					o											o	o			•															
VI-15	Use state cost-share for separate projects with separate standards on "supply zone" and cost-benefit basis. (p. VI-19) ((1a)).		•		•		•	•																•	o			•														
VI-20	Require a contract tied to the land for management according to an approved plan for entry under the Tree Growth Tax Law. (p. VI-24) ((1b)).	•		•		•																		•				•											•			
VI-24	Enact a forest practices act that sets minimum standards for regeneration of a new forest crop. (p. VI-28) ((4a)).	•																										•														
VII-1	State could pursue public objectives in county forests. (p. VII-1) ((3a)).	•					•																	•			•		o	•	•											
VII-2	State could leave management of county forests to county decision. (p. VII-1) ((3a)).	•					•																	•			•		o	•	•											
VII-24	Combine state and county forest acreages for determination of allowable cut. (p. VII-21) same as III2.						•																•				•															
VII-25	Establish a system for state and county forest managers to notify each other of timber sales and silvicultural operations. (p. VII-21).						•																	•				•														

POLICY APPROACH: Direct Public Production-- timber sales		POLICY INSTITUTIONS																	POLICY INSTRUMENTS																						
		Minnesota State Government											Other Public Agencies						State Law	Administrative Rule-Regulation	Executive Order	Administration Discretion	Legal Interpretation	Commission Recommendation																	
		Legislature					Executive Agencies						USDA, Forest Service	Other Federal Agencies	University of Minnesota	Regional Commissions	County Government	Municipal-Township Government							Other																
		Policy Committees	Appropriations Committees	Tax Committees	Leg. Comm. Minn. Resources	Leg. Comm. Waste Management	Tax Study Commission	Other	DNR, Division of Forestry	DNR, Other Divisions-Bureau	Dept. Administration	Dept. Economic Development														Dept. Finance	Dept. Labor and Industry	Dept. Revenue	Dept. Transportation	Pollution Control Agency	Environmental Quality Board	State Planning Agency	Land Exchange Board	Other							
		Policy Committees	Appropriations Committees	Tax Committees	Leg. Comm. Minn. Resources	Leg. Comm. Waste Management	Tax Study Commission	Other	DNR, Division of Forestry	DNR, Other Divisions-Bureau	Dept. Administration	Dept. Economic Development														Dept. Finance	Dept. Labor and Industry	Dept. Revenue	Dept. Transportation	Pollution Control Agency	Environmental Quality Board	State Planning Agency	Land Exchange Board	Other	USDA, Forest Service	Other Federal Agencies	University of Minnesota	Regional Commissions	County Government	Municipal-Township Government	Other
Chapter & No.	Policy Alternative	Policy Committees	Appropriations Committees	Tax Committees	Leg. Comm. Minn. Resources	Leg. Comm. Waste Management	Tax Study Commission	Other	DNR, Division of Forestry	DNR, Other Divisions-Bureau	Dept. Administration	Dept. Economic Development														Dept. Finance	Dept. Labor and Industry	Dept. Revenue	Dept. Transportation	Pollution Control Agency	Environmental Quality Board	State Planning Agency	Land Exchange Board	Other	USDA, Forest Service	Other Federal Agencies	University of Minnesota	Regional Commissions	County Government	Municipal-Township Government	Other
II-23	Establish longer planning horizons for timber sales. (p. II-25).								•																				•	•	•	•									
III-3	Eliminate the \$1500 timber sale limit, and appraisal method; go to a sealed bid or auction method of sale with no minimum bid price. (p. III-17).	•																																							
III-4	Raise or suspend the timber sale ceiling; modify appraisal method to reflect a road "already in place." (p. III-17).	•							•																•																
III-9	Use lump-sum sales to promote more harvest residue recovery. (p. III-23) ((3e)).								•														•	•	•	•															
III-10	Use lower base-price schedule for low-value, low-density stands to encourage cutting. (p. III-24) ((3e)).								•														•	•	•	•															
III-12	Provide residential fuelwood marketing areas to act as clearing yards for nonmerchantable material. (p. III-25) ((3e)).	•	•	•					•														•	•	•	•															
V-5	Discontinue formula appraisal techniques in favor of market-determined stumpage prices. (p. V-10).								•														•	•	•	•															
V-6	Sell timber by oral auction. (p. V-10).	•							•														•	•	•	•															
V-7	Sell timber by sealed bid. (p. V-10).	•							•														•	•	•	•															
V-8	Direct small loggers to salvage, timber stand improvements, and firewood sales. (p. V-10).								•														•	•	•	•															
V-9	Collect stumpage revenues on the basis of lump sum sales, where clearcutting is the appropriate silvicultural treatment. (p. V-11).								•														•	•	•	•															

POLICY APPROACH: Direct Public Production-- timber sales		POLICY INSTITUTIONS																POLICY INSTRUMENTS													
		Minnesota State Government													Other Public Agencies			State Law Administrative Rule-Regulation Executive Order Administration Discretion Legal Interpretation Commission Recommendation													
		Legislature						Executive Agencies																							
		Policy Committees	Appropriations Committees	Tax Committees	Leg. Comm. Minn. Resources	Leg. Comm. Waste Management	Tax Study Commission	Other	DNR, Division of Forestry	DNR, Other Divisions-Bureau	Dept. Administration	Dept. Economic Development	Dept. Finance	Dept. Labor and Industry	Dept. Revenue	Dept. Transportation	Pollution Control Agency						Environmental Quality Board	State Planning Agency	Land Exchange Board	Other	USDA, Forest Service	Other Federal Agencies	University of Minnesota	Regional Commissions	County Government
Chapter & No.	Policy Alternative																														
V-10	Remove the dollar limit on timber sales. (p. V-12).	•																													
V-11	Increase the dollar limit on timber sales and provide for periodic inflation adjustments; or establish volume limits. (p. V-12).	•																													
V-12	Increase the length of timber sales to 4 to 10 10 years. Require substantial deposits and provide for periodic price adjustments. (p. V-12).	•																													
V-13	Study the long-term timber sale policy developed by the University of Michigan and monitor its subsequent progress in Michigan. (p. V-13) ((2a)).	o		•			•		•													•									
V-14	Provide long-range information on public timber sales. (p. V-13) ((2a)).	o		o			•														•	•	•		•			o			
V-15	Utilize public log markets rather than conventional stumpage sales. (p. V-14).																														
V-42	Require a workers' compensation certification of insurance for public timber sales. (p. V-31) ((5a)).	•																													
VI-25	Require licensing of timber buyers with a payment bond as the only provision. (p. VI-30) ((4a)).	•																													
VII-15	Amend MS 282.04 to broaden county discretion to determine the kinds of timber to be sold. (p. VII-14).	•																													
VII-16	Eliminate DNR review of county timber sales. (p. VII-15).	•																													

		POLICY INSTITUTIONS				POLICY INSTRUMENTS
		Minnesota State Government		Other Public Agencies		
		Legislature	Executive Agencies			
Chapter & No.	Policy Alternative	●	Policy Committees	●	Appropriations Committees	●
			Tax Committees		Leg. Comm. Minn. Resources	
			Leg. Comm. Waste Management		Tax Study Commission	
			Other		DNR, Division of Forestry	
				●	DNR, Other Divisions-Bureau	
					Dept. Administration	
					Dept. Economic Development	
					Dept. Finance	
					Dept. Labor and Industry	
					Dept. Revenue	
					Dept. Transportation	
					Pollution Control Agency	
					Environmental Quality Board	
					State Planning Agency	
					Land Exchange Board	
					Other	
					USDA, Forest Service	
					Other Federal Agencies	
					University of Minnesota	
					Regional Commissions	
					County Government	
					Municipal-Township Government	
					Other	
		●	State Law		Administrative Rule-Regulation	
					Executive Order	
					Administration Discretion	
					Legal Interpretation	
					Commission Recommendation	

See also VII-25 under 3e. Forest Management.

POLICY APPROACH: Direct Public Production-- transportation		POLICY INSTITUTIONS																POLICY INSTRUMENTS																					
		Minnesota State Government														Other Public Agencies																							
		Legislature								Executive Agencies																													
		Policy Committees	Appropriations Committees	Tax Committees	Leg. Comm. Minn. Resources	Leg. Comm. Waste Management	Tax Study Commission	Other	DNR, Division of Forestry	DNR, Other Divisions-Bureau	Dept. Administration	Dept. Economic Development	Dept. Finance	Dept. Labor and Industry	Dept. Revenue	Dept. Transportation	Pollution Control Agency	Environmental Quality Board	State Planning Agency	Land Exchange Board	Other	USDA, Forest Service	Other Federal Agencies	University of Minnesota	Regional Commissions	County Government	Municipal-Township Government	Other	State Law	Administrative Rule-Regulation	Executive Order	Administration Discretion	Legal Interpretation	Commission Recommendation					
Chapter & No.	Policy Alternative																																						
II-28	Establish a forest road plan. (p. II-28) ((3d)).	•			•			•	•													•	•	•	•			•											
III-5	Assess current and future state and county forest road system needs and develop a comprehensive state forest road plan. (p. III-18) ((3d)).		•		•			•	•	•						•								•	•	•	•												
III-6	Allow expensing or accelerated depreciation of forest roads built on all private lands that provide access in areas deemed desirable by the state. (p. III-19) ((1a)).		•					•																						•		•							
III-7	Provide outright payments to nonindustrial private landowners for forest road construction in areas where a state forest road plan has identified needs for access. (p. III-19) ((1a)).	•	•					•							•																								
III-8	Increase funding, in the short-run, for forest road programs to maintain the current forest road system. (p. III-21) ((1a)).		•	•	•			•							•																								
V-16	Increase highway weight limits. (p. V-15)	•																																					
V-17	Upgrade road standards. (p. V-15).	•																																					
V-18	Increase the winter weight exemption for raw and unfinished forest products. (p. V-15).	•																																					
V-19	Encourage the Minnesota congressional delegation to support passage of pending federal legislation which addresses weight and width inconsistencies. (p. V-16).	•																																					
V-20	Assume a more active rail rate influencing role with the Interstate Commerce Commission in terms of economic goals. (p. V-17).	•						•	•	•																													

Policy Approach: Regulation

POLICY APPROACH: Regulation		POLICY INSTITUTIONS																POLICY INSTRUMENTS																			
		Minnesota State Government														Other Public Agencies																					
		Legislature						Executive Agencies																													
		Policy Committees	Appropriations Committees	Tax Committees	Leg. Comm. Minn. Resources	Leg. Comm. Waste Management	Tax Study Commission	Other	DNR, Division of Forestry	DNR, Other Divisions-Bureau	Dept. Administration	Dept. Economic Development	Dept. Finance	Dept. Labor and Industry	Dept. Revenue			Dept. Transportation	Pollution Control Agency	Environmental Quality Board	State Planning Agency	Land Exchange Board	Other	USDA, Forest Service	Other Federal Agencies	University of Minnesota	Regional Commissions	County Government	Municipal-Township Government	Other	State Law	Administrative Rule-Regulation	Executive Order	Administration Discretion	Legal Interpretation	Commission Recommendation	
Chapter & No.	Policy Alternative																																				
II-4	Prohibit leasing of peatlands that are prime forest lands. (p. II-11) ((3b)).							•	•												•	•															
II-6	Prohibit power plant and transmission line siting on designated prime forest lands. (p. II-12).	•														•												•	•								
II-7	Give preference to forest lands over agricultural lands in transmission line siting. (p. II-12).	•														•												•	•								
II-20	Institute a forest practices act. (p. II-20) ((3e)).	•																										•	•								
II-21	Formulate a state policy on the use of herbicides. (p. II-21) ((3e)).	•						•	•						•	•					•	•						•	•	•	•						
II-22	Give priority to wood processing industries under the State Implementation Plan - Prevention of Significant Deterioration Program. (p. II-22).														•	•	•												•								
III-23	Enact forest practice legislation to guarantee desired harvest, utilization, reforestation practices. (p. III-41) ((3e)).	•																											•								
IV-1	Support national drives to promote waferboard and oriented strandboard (OSB) use and modification of building codes which may impede future waferboard and OSB use. (p. IV-25) ((5b)).													•																				•			
V-25	Develop state regulations that will ensure electricity is sold to utilities at a price which reflects producer production costs. (p. V-21) ((5b)).																			•*															•		

* Public Service Commission

POLICY APPROACH: Regulation		POLICY INSTITUTIONS																		POLICY INSTRUMENTS														
		Minnesota State Government														Other Public Agencies				State Law	Administrative Rule-Regulation	Executive Order	Administration Discretion	Legal Interpretation	Commission Recommendation									
		Legislature						Executive Agencies								USDA, Forest Service	Other Federal Agencies	University of Minnesota	Regional Commissions							County Government	Municipal-Township Government	Other						
		Policy Committees	Appropriations Committees	Tax Committees	Leg. Comm. Minn. Resources	Leg. Comm. Waste Management	Tax Study Commission	Other	DNR, Division of Forestry	DNR, Other Divisions-Bureau	Dept. Administration	Dept. Economic Development	Dept. Finance	Dept. Labor and Industry	Dept. Revenue														Dept. Transportation	Pollution Control Agency	Environmental Quality Board	State Planning Agency	Land Exchange Board	Other
Chapter & No.	Policy Alternative																																	
V-26	Establish state environmental quality standards on the basis of federal standards. (p. V-22).	•														•	•										•	•						
V-27	Repeal the 1980 amendments to 116D.04 as they relate to Environmental Assessment Worksheets and the Environmental Impact Statements. Rely on the permitting process to provide environmental review. (p. V-23).	•																										•						
V-28	Develop a state staff solely responsible for Environmental Impact. Statement preparation. (p. V-23).	•																										•						
V-29	Develop a master permit application. (p. V-24).														•														•					
V-30	Provide baseline environmental data for preparation of Environmental Impact Statements. (p. V-24).		•	•			•	•	•					•	•	•	•										•		•		•			
V-31	Adopt U.S. EPA-approved modelling technique which does away with need for background data. (p. V-24).		o													•											o		•					
VI-24	Enact a forest practices act that sets minimum standards for regeneration of a new forest crop. (p. VI-28) ((3e)).	•																										•						
VI-25	Require licensing of timber buyers with a payment bond as the only provision. (p. VI-30) ((3f)).	•																										•						
VI-26	Require foresters who provide service to private landowners to be licensed. (p. VI-30) ((3c)).	•							•																			•						
VI-27	Provide for voluntary registration of foresters. (p. VI-30) ((3c)).	•							•																			•						

		POLICY INSTITUTIONS											POLICY INSTRUMENTS				
		Minnesota State Government											Other Public Agencies				
		Legislature					Executive Agencies						Other Public Agencies				
		POLICY APPROACH: Regulation											State Law				
		POLICY COMMITTEES											Administrative Rule-Regulation				
		Appropriations Committees											Executive Order				
		Tax Committees											Administration Discretion				
		Leg. Comm. Minn. Resources											Legal Interpretation				
		Leg. Comm. Waste Management											Commission Recommendation				
		Tax Study Commission															
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		DNR, Division of Forestry															
		DNR, Other Divisions-Bureau															
		Dept. Administration															
		Dept. Economic Development															
		Dept. Finance															
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		State Planning Agency															
		Land Exchange Board															
		Other															
		USDA, Forest Service															
		Other Federal Agencies															
		University of Minnesota															
		Regional Commissions															
		County Government															
		Municipal-Township Government															
		Other															
IX-7		Require a 4-year forestry degree for professional forestry positions in the Division of Forestry. (p. IX-15) ((3c)).															
Chapter & No.		Policy Alternative															

Policy Approach: Miscellaneous

5a; workers' compensation

5b: other

Chapter & No.	Policy Alternative	POLICY INSTITUTIONS			POLICY INSTRUMENTS
		Minnesota State Government	Other Public Agencies		
		Legislature Appropriations Committees Tax Committees Leg. Comm. Minn. Resources Leg. Comm. Waste Management Tax Study Commission Other	Executive Agencies DNR, Division of Forestry DNR, Other Divisions-Bureau Dept. Administration Dept. Economic Development Dept. Finance Dept. Labor and Industry Dept. Revenue Dept. Transportation Pollution Control Agency Environmental Quality Board State Planning Agency Land Exchange Board Other	Other Public Agencies USDA, Forest Service Other Federal Agencies University of Minnesota Regional Commissions County Government Municipal-Township Government Other	State Law Administrative Rule-Regulation Executive Order Administration Discretion Legal Interpretation Commission Recommendation
V-40	Adopt recommendations of the Minnesota Workers' Compensation Study Commission. (p. V-30).	•			
V-41	Require compulsory workers' compensation coverage for sole proprietorships and partnerships. (p. V-30).	•			
V-42	Require a workers' compensation certificate of insurance for public timber sales. (p. V-31) ((3F)).	•			

POLICY APPROACH: Miscellaneous--workers' compensation

The University of Minnesota, including the Agricultural Experiment Station, is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, sex, national origin, or handicap.