Title 222 WAC FOREST PRACTICES BOARD

Chapters	
222-08	Practices and procedures.
222-10	State Environmental Policy Act guide- lines.
222-12	Policy and organization.
222-16	Definitions.
222-20	Application and notification procedures
222-22	Watershed analysis.
222-24	Road construction and maintenance.
222-30	Timber harvesting.
222-34	Reforestation.
222-38	Forest chemicals.
222-42	Supplemental directives.
222-46	Consultation and enforcement.
222-50	Relationship to other laws and regulations.

Reviser's note: Title 222A WAC, being the 1975 interim forest practices rules, was adopted by the department of natural resources under chapters 34.04 and 76.09 RCW and the Forest Practices Act of 1974, as amended. The rules in Title 222A WAC were filed in the office of the code reviser by Emergency Order 225, filed December 31, 1974; Permanent Order 226, filed February 28, 1975; Emergency Order 236, filed July 23, 1975; Emergency and Permanent Order 247, filed October 10, 1975; and Emergency Order 248, filed October 20, 1975. These rules were repealed by the department of natural resources by Order 273, filed February 22, 1977, and the permanent rules adopted by the forest practices board are published as Title 222 WAC.

Chapter 222-08 WAC PRACTICES AND PROCEDURES

WAC	
222-08-010	Appeals.
222-08-020	Orientation and training.
222-08-030	Reporting procedures.
222-08-035	Continuing review of forest practices regulations.
222-08-040	Regular meetings.

Reviser's note: For an explanation of the rules marked with an asterisk (*), see WAC 222-12-010.

WAC 222-08-010 Appeals. All appeals from actions regarding forest practices shall be in accordance with RCW 76.09.210, 76.09.220 and 76.09.230.

[Order 263, § 222-08-010, filed 6/16/76.]

WAC 222-08-020 Orientation and training. The department shall be responsible for a continuing program of orientation and training, relating to forest practices and regulation thereof, pursuant to RCW 76.09.250. Such program shall include:

- (1) **Investigation of current** developments in and practical applications of forest resources and related technology.
- (2) Continuing training of department personnel in the current status of forest resources technology and related disciplines.

(3) **Dissemination of information** on current forest practice technology to the public, in a manner determined by the department to be effective.

[Order 263, § 222-08-020, filed 6/16/76.]

WAC 222-08-030 Reporting procedures. The department shall:

- (1) **Survey and identify** all silviculturally related nonpoint sources of pollution and related control programs in the state.
- (2) **Prepare an analysis** of the above activities and programs, and
- (3) **Report and recommend** to the forest practices board and to the governor additional rules and regulations, procedures and/or methods necessary for the control of such sources to the extent feasible.

[Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, § 222-08-030, filed 12/20/93, effective 1/1/94; Order 263, § 222-08-030, filed 6/16/76.]

WAC 222-08-035 Continuing review of forest practices regulations. *(1) Annual evaluations. The department, after consulting with affected state agencies, Indian tribes, forest landowners, fish and wildlife, natural resources, and environmental interest groups, shall beginning July 1, 1988, report annually to the forest practices board an assessment of how regulations and voluntary processes are working.

- (2) Adaptive management. The department is directed to report to the board on opportunities to modify these regulations when baseline data, monitoring, evaluation or the use of interdisciplinary teams show that such adaptive management will better meet the purposes and policies of the Forest Practices Act.
- (3) Resource management plans. The department is directed to develop a method for cooperative voluntary resource management planning among forest landowners, governmental agencies, affected Indian tribes, and environmental groups which would result in the development of plans which might be used as an alternative to the forest practice regulations in achieving the purposes and policies set forth in the act. This should be done through pilot projects, at least one of which should be located on the east side of the Cascade summit and one on the west side of the Cascade summit.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091; § 222-08-035, filed 12/3/97, effective 1/3/98. Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-08-035, filed 11/16/87, effective 1/1/88.]

WAC 222-08-040 Regular meetings. Regular meetings of the forest practices board shall be held quarterly on the second Wednesday of February, May, August and November, at a location to be designated by the forest prac-

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tices board. Any person may obtain information as to said location and meeting time by contacting the Department of Natural Resources, Forest Practices Division, Olympia, Washington 98504-7012. A schedule of meetings will be published in the Washington Register in January of each year.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 93-12-001, § 222-08-040, filed 5/19/93, effective 6/19/93. Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-08-040, filed 11/16/87, effective 1/1/88. Statutory Authority: RCW 43.21C.120, 76.09.040 and 42.30.075. 84-18-021 (Order 429, Resolution No. 8-8-84), § 222-08-040, filed 8/29/84, effective 10/1/84.]

Chapter 222-10 WAC

STATE ENVIRONMENTAL POLICY ACT GUIDELINES

WAC	
222-10-010	Policies and authorities.
222-10-040	Class IV-Special threatened and endangered species SEPA policies.
222-10-041	Northern spotted owls.
222-10-042	Marbled murrelets.
222-10-050	Adoption by reference.
222-10-070	Additional definitions.
222-10-090	Designation of responsible official.
222-10-110	Board's SEPA public information center.
222-10-120	Exemption for emergency actions.
222-10-130	Lead agency, agency with jurisdiction, consulted

WAC 222-10-010 Policies and authorities. (1) This chapter is promulgated pursuant to the authority granted in RCW 76.09.010, 43.21C.120 and chapter 197-11 WAC.

- (2) **The forest practices board,** according to RCW 76.09.040, possesses the authority to promulgate forest practices regulations establishing minimum standards for forest practices and setting forth necessary administrative provisions.
- (3) The forest practices board adopts by reference the policies of SEPA as set forth in RCW 43.21C.020.
- (4) A Class IV-Special forest practice approval will be conditioned when necessary to mitigate specific adverse impacts which are identified in the environmental documents prepared under SEPA. An application for a Class IV-Special forest practice will be denied when the proposal would result in significant adverse impacts identified in a final or supplemental environmental impact statement prepared under SEPA, and reasonable mitigation measures are insufficient to mitigate the identified impacts and denial is consistent with all provisions of the acts cited in subsection (1) of this section.
- (5) **SEPA policies** and procedures required for administration of Class IV-Special forest practices shall be implemented by the department of natural resources.

[Statutory Authority: RCW 43.21C.120, 76.09.040 and 42.30.075. 84-18-021 (Order 429, Resolution No. 8-8-84), § 222-10-010, filed 8/29/84, effective 10/1/84; Order 258, § 222-10-010, filed 5/21/76.]

WAC 222-10-040 Class IV-Special threatened and endangered species SEPA policies. In addition to the SEPA policies established elsewhere in this chapter, the following policies shall apply to Class IV-Special forest practices involving threatened or endangered species.

- (1) The department shall consult with the department of fish and wildlife, other agencies with expertise, affected land-owners, affected Indian tribes, and others with expertise when evaluating the impacts of forest practices. If the department does not follow the recommendations of the department of fish and wildlife, the department shall set forth in writing a concise explanation of the reasons for its action.
- (2) In order to determine whether forest practices are likely to have a probable significant adverse impact, and therefore require an environmental impact statement, the department shall evaluate whether the forest practices reasonably would be expected, directly or indirectly, to reduce appreciably the likelihood of the survival or recovery of a listed species in the wild by reducing the reproduction, numbers, or distribution of that species.
- (3) Specific mitigation measures or conditions shall be designed to reduce any probable significant adverse impacts identified in subsection (2) of this section.
- (4) The department shall consider the species-specific policies in WAC 222-10-041 and 222-10-042 when reviewing and evaluating SEPA documents and the impacts of forest practices.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091, \S 222-10-040, filed 12/3/97, effective 1/3/98. Statutory Authority: Chapters 76.09 and 34.05 RCW. 96-12-038 and 96-14-081, \S 222-10-040, filed 5/31/96 and 7/1/96, effective 7/1/96 and 8/1/96.]

- WAC 222-10-041 Northern spotted owls. The effective date of this section is July 1, 1996. The following policies shall apply to forest practices subject to SEPA if the forest practices may cause adverse impacts to northern spotted owls.
- (1) In SOSEAs or areas of SOSEAs where the goal is demographic support, suitable spotted owl habitat should be maintained either to protect the viability of the owl(s) associated with each northern spotted owl site center or to provide demographic support for that particular SOSEA as described in the SOSEA goals.
- (2) In SOSEAs or areas of SOSEAs where the goal is dispersal support, either suitable spotted owl habitat should be maintained to protect the viability of the owl(s) associated with each northern spotted owl site center or dispersal habitat should be managed, over time, to provide the dispersal support for that particular SOSEA as described in the SOSEA goals. Dispersal support is provided by a landscape which includes dispersal habitat at the stand level interspersed with areas of higher quality habitat. Stands of dispersal habitat should be managed to reduce gaps between stands and to maintain a sufficient level of dispersal habitat to meet the SOSEA goals over time.
- (3) In SOSEAs or areas of SOSEAs where the goal is a combination of dispersal support and demographic support, either suitable spotted owl habitat should be maintained to protect the viability of the owl(s) associated with each northern spotted owl site center or a variety of habitat conditions should be provided which in total are more than dispersal support and less than demographic support. This can be accomplished by providing:
- (a) Dispersal support as described in subsection (2) of this section;

- (b) Areas of suitable spotted owl habitat that contain some opportunities for nesting as well as roosting and foraging habitat; and
- (c) Connectivity between areas of SOSEAs designated for demographic support or adjacent federal lands which are designated as late successional reserves, congressionally reserved areas, or administratively withdrawn areas.
- (4) Within SOSEAs, the following amounts of suitable habitat are generally assumed to be necessary to maintain the viability of the owl(s) associated with each northern spotted owl site center, in the absence of more specific data or a mitigation plan, as provided for in subsections (6) and (7) of this section respectively:
- (a) All suitable spotted owl habitat within 0.7 mile of each northern spotted owl site center;
- (b) Including the suitable spotted owl habitat identified in (a) of this subsection:
- (i) For the Hoh-Clearwater/Coastal Link SOSEA A total of 5,863 acres of suitable spotted owl habitat within the median home range circle (2.7 mile radius).
- (ii) For all other SOSEAs A total of 2,605 acres of suitable spotted owl habitat within the median home range circle (1.8 mile radius).

The department shall first identify the highest quality suitable spotted owl habitat for this purpose. Consideration shall be given to habitat quality, proximity to the activity center and contiguity in selecting the most suitable habitat. Suitable spotted owl habitat identified outside 0.7 mile of a northern spotted owl site center may support more than one median home range circle.

Suitable spotted owl habitat harvested by a landowner shall continue to be counted as part of the total acres necessary under (b) of this subsection for other landowners within the median home range circle if the harvest is conducted pursuant to agreements or plans approved under subsection (6) of this section or WAC 222-16-080 (1)(h)(iv), (6)(a), (b), or (e).

- (5) **Outside SOSEAs**, during the nesting season (between March 1 and August 31), seventy acres of the highest quality suitable spotted owl habitat surrounding a northern spotted owl site center should be maintained. The seventy acres for one site center shall not be utilized for meeting suitable habitat needs of any other site center.
- (6) The assumptions set forth in subsection (4) of this section are based on regional data. Applicants or others may submit information that is more current, accurate, or specific to a northern spotted owl site center, proposal, or SOSEA circumstances or goals. The department shall use such information in making its determinations under this section where the department finds, in consultation with the department of fish and wildlife, that the information is more likely to be valid for the particular circumstances than the assumptions established under subsection (4) of this section. If the department does not use the information, it shall explain its reasons in writing to the applicant.
- (7) The department shall consider measures to mitigate identified adverse impacts of an applicant's proposal. Mitigation measures must contribute to the achievement of SOSEA goals or to supporting the viability of impacted northern spotted owl site centers.

[Statutory Authority: Chapters 76.09 and 34.05 RCW. 96-12-038, § 222-10-041, filed 5/31/96, effective 7/1/96.]

- WAC 222-10-042 Marbled murrelets. The following policies shall apply to forest practices subject to SEPA where the forest practices may cause adverse impacts to marbled murrelets.
- (1) Within an occupied marbled murrelet site, forest practices that will adversely impact this habitat will likely have a probable significant adverse impact on the environment except where the department determines, in consultation with the department of fish and wildlife, that the applicant's proposal will actually have no significant adverse impact.
 - (2) Within marbled murrelet detection areas:
- (a) Suitable marbled murrelet habitat with at least a 50% probability of occupancy is assumed to have a high likelihood of marbled murrelet occupancy. It is currently assumed that 5 platforms per acre meets the 50% probability of occupancy. Without survey information, forest practices that will adversely impact this habitat may have a probable significant adverse impact on the environment.
- (b) Suitable marbled murrelet habitat with at least a 30%, but less than 50% probability of occupancy has a sufficiently high likelihood of marbled murrelet occupancy to warrant a survey. This additional information is necessary for the department to evaluate the environmental impact of the forest practice. It is currently assumed that 2 platforms per acre meets the 30% probability of occupancy.

A landowner may request the department of fish and wildlife to survey. The department of fish and wildlife should survey to the maximum extent practicable based on an appropriation to survey marbled murrelet suitable habitat within detection areas where the landowner provides access for surveys to the department of fish and wildlife, and sufficient time is allowed to complete the protocol surveys. The department shall provide a notice to the landowner within 60 days from the date of application of the department of fish and wildlife's intent to survey. If the department of fish and wildlife cannot conduct marbled murrelet surveys the responsibility for surveys remains with the landowner.

- (3) Outside a marbled murrelet detection area:
- (a) Suitable marbled murrelet habitat with at least a 60% probability of occupancy is assumed to have a high likelihood of marbled murrelet occupancy. It is currently assumed that 7 platforms per acre meets the 60% probability of occupancy. Without survey information, forest practices that will adversely impact this habitat may have a probable significant adverse impact on the environment.
- (b) Within a marbled murrelet special landscape suitable marbled murrelet habitat with at least a 50% probability of occupancy is assumed to have a high likelihood of marbled murrelet occupancy. Without survey information, forest practices that will adversely impact this habitat may have a probable significant adverse impact on the environment.
- (4) When determining whether a forest practice will have a probable significant adverse impact on the environment, the department shall, in consultation with the department of fish and wildlife, evaluate the impacts on the state-wide, regional (Southwest Washington, Olympic Peninsula, Hood Canal,

North Puget Sound, South Puget Sound and South Cascades) and local (within the marbled murrelet detection area) marbled murrelet populations and associated habitats. The department should consider a variety of information including but not limited to survey data, habitat quality and patch size, the amount of edge in relation to the area of habitat, amount of interior habitat, distance from saltwater, detection rates, the amount and quality of habitat, the likelihood of predation and the recovery goals for the marbled murrelet.

(5) The platform assumptions set forth above are based on regional data. Applicants or others may submit information to the department which was gathered in conjunction with a marbled murrelet survey agreement with the department of fish and wildlife, and other reliable information that is more current, or specific to the platform numbers in the marbled murrelet suitable habitat definition. The department shall use such information in making its determinations under this section where the department finds, in consultation with the department of fish and wildlife, that the information is more likely to be valid for a particular WRIA or physiographic province. If the department does not use the information, it shall explain its reasons in writing to the applicant.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-15-105, § 222-10-042, filed 7/21/97, effective 8/21/97.]

WAC 222-10-050 Adoption by reference. Except to those rules that may not be applicable, the forest practices board hereby adopts by reference chapter 197-11 WAC, the "SEPA rules" adopted by the state of Washington department of ecology.

[Statutory Authority: RCW 43.21C.120, 76.09.040 and 42.30.075. 84-18-021 (Order 429, Resolution No. 8-8-84), § 222-10-050, filed 8/29/84, effective 10/1/84; Order 258, § 222-10-050, filed 5/21/76.]

WAC 222-10-070 Additional definitions. In addition to those definitions contained within WAC 197-11-700 through 197-11-799, the following terms shall have the following meanings:

- (1) "Board" means the forest practices board, as defined by chapter 76.09 RCW.
- (2) "SEPA rules" means chapter 197-11 WAC adopted by the state of Washington department of ecology.

[Statutory Authority: RCW 43.21C.120, 76.09.040 and 42.30.075. 84-18-021 (Order 429, Resolution No. 8-8-84), § 222-10-070, filed 8/29/84, effective 10/1/84; Order 258, § 222-10-070, filed 5/21/76.]

WAC 222-10-090 Designation of responsible official.

The board shall act as the responsible official for the purpose of complying with the SEPA rules, or the board may designate the chairperson of the forest practices board or his/her designee to serve as such responsible official.

[Statutory Authority: RCW 43.21C.120, 76.09.040 and 42.30.075. 84-18-021 (Order 429, Resolution No. 8-8-84), § 222-10-090, filed 8/29/84, effective 10/1/84; Order 258, § 222-10-090, filed 5/21/76.]

WAC 222-10-110 Board's SEPA public information center. There is hereby established in the Natural Resources Building, 4th Floor, Olympia, Washington, the location of the board's SEPA public records in accordance with chapter 42.17 RCW.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 93-12-001, § 222-10-110, filed 5/19/93, effective 6/19/93. Statutory Authority: RCW 43.21C.120, 76.09.040 and 42.30.075. 84-18-021 (Order 429, Resolution No. 8-8-84), § 222-10-110, filed 8/29/84, effective 10/1/84; Order 258, § 222-10-110, filed 5/21/76.]

WAC 222-10-120 Exemption for emergency actions.

The board may promulgate rules which must be promulgated immediately, or within a time too short to allow full compliance with this chapter of the SEPA rules where such action is required to avoid an imminent threat to public health or safety, to prevent imminent danger to public or private property or prevent imminent threat of serious environmental degradation without complying with the procedural requirements of this chapter of the SEPA rules.

[Statutory Authority: RCW 43.21C.120, 76.09.040 and 42.30.075. 84-18-021 (Order 429, Resolution No. 8-8-84), § 222-10-120, filed 8/29/84, effective 10/1/84; Order 258, § 222-10-120, filed 5/21/76.]

WAC 222-10-130 Lead agency, agency with jurisdiction, consulted agency. The board shall be considered the lead agency, consulted agency or an agency with jurisdiction only when the action considered is the action of promulgating rules under chapter 76.09 RCW.

[Order 258, § 222-10-130, filed 5/21/76.]

WAC

Chapter 222-12 WAC POLICY AND ORGANIZATION

222-12-010	Authority.
222-12-020	Regulation sections.
222-12-030	Classes of forest practices.
222-12-040	Alternate plans.
222-12-045	Adaptive management.
222-12-046	Cumulative effects.
222-12-050	Notices to comply—Stop work orders
222-12-060	Supplemental directives.
222-12-070	Enforcement policy.
222-12-080	Administrative and judicial appeals.
222-12-090	Forest practices board manual

Reviser's note: For an explanation of the rules marked with an asterisk (*), see WAC 222-12-010.

WAC 222-12-010 Authority. These forest practices regulations are adopted pursuant to chapter 76.09 RCW. Where necessary to accomplish the purposes and policies stated in the act, the board is authorized to promulgate forest practices regulations establishing minimum standards for forest practices and setting forth necessary administrative provisions, pursuant to chapter 34.04 RCW and in accordance with the procedures enumerated in the act.

Promulgation of all forest practices regulations shall be accomplished so that compliance with such forest practices regulations will achieve compliance with the water quality laws.

Those regulations marked with an asterisk (*) pertain to water quality protection; pursuant to RCW 76.09.040 they will also be adopted by the department of ecology and can be amended only by agreement between the board and the department of ecology.

Forest practices regulations shall be administered and enforced by the department except as otherwise provided in the act. Such regulations shall be administered so as to give consideration to all purposes and policies set forth in RCW 76.09.010.

[Order 263, § 222-12-010, filed 6/16/76.]

WAC 222-12-020 Regulation sections. These regulations are organized as follows:

Chapter 222-08 WAC Chapter 222-10 WAC	Practices and procedures. State Environmental Policy Act Guidelines.
Chapter 222-12 WAC	Policy and organization.
Chapter 222-16 WAC	Definitions.
Chapter 222-20 WAC	Application and notification procedures.
Chapter 222-22 WAC	Watershed analysis.
Chapter 222-24 WAC	Road construction and maintenance.
Chapter 222-30 WAC	Timber harvesting.
Chapter 222-34 WAC	Reforestation.
Chapter 222-38 WAC	Forest chemicals.
Chapter 222-42 WAC	Supplemental directives.
Chapter 222-46 WAC	Consultation and enforcement.
Chapter 222-50 WAC	Relationship to other laws and regulations.

[Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, § 222-12-020, filed 12/20/93, effective 1/1/94. Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 93-12-001, § 222-12-020, filed 5/19/93, effective 6/19/93; Order 263, § 222-12-020, filed 6/16/76.]

WAC 222-12-030 Classes of forest practices. Forest practices are divided into four classes as specified by RCW 76.09.050. In certain emergencies, as defined in RCW 76.09.060(7), the application or notification may be submitted within 48 hours after commencement of the practice.

- (1) Class I forest practices require no application or notification, but do require compliance with all other forest practices regulations.
- (2) Class II forest practices require a notification to the department, and may begin 5 calendar days (or such lesser time as the department may determine) after receipt by the department of the notification.
- (3) Class III forest practices require an application which must be approved or disapproved within 30 or fewer calendar days of receipt by the department. The department is directed to approve or disapprove within 14 calendar days Class III applications not requiring additional field review.
- (4) Class IV forest practices are divided into "Class IV special," and "Class IV general," and require an application to the department which must be approved or disapproved within 30 calendar days, except that if a detailed environmental statement is necessary, additional time for approval or disapproval as specified in RCW 76.09.050 will be required.

[Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-12-030, filed 11/16/87, effective 1/1/88; Order 263, § 222-12-030, filed 6/16/76.]

WAC 222-12-040 *Alternate plans. All forest practice operations must comply with the act and further with the rules promulgated pursuant to the act, unless an alternate plan has been approved by the department. An applicant may submit an alternate plan for any or all of the activities described in the application. The department may approve an application which departs from the specific provisions of chapters 222-22 through 222-38 WAC, provided that the plan must, in the determination of the department, equal or exceed the protection of public resources as provided in the Forest Practices Act and rules and regulations. The department shall provide an opportunity for comment to the departments of fish and wildlife, ecology, other state agencies, and affected Indian tribes prior to approval of any alternate plan.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091, § 222-12-040, filed 12/3/97, effective 1/3/98. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-12-040, filed 7/2/92, effective 8/2/92. Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-12-040, filed 11/16/87, effective 1/1/88; Order 263, § 222-12-040, filed 6/16/76.]

WAC 222-12-045 *Adaptive management. In order to further the purposes of chapter 76.09 RCW the board has adopted a policy of adaptive management designed to modify these regulations and their application based on cooperative research, monitoring, and evaluation. Such adaptive management shall include the measures set out in WAC 222-08-035.

[Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-12-045, filed 11/16/87, effective 1/1/88.]

WAC 222-12-046 Cumulative effects. The purpose of this section is to identify how the forest practices rules address changes to the environment caused by the interaction of natural ecosystem processes with the effects of two or more forest practices. This interaction is referred to as "cumulative effects." The following approaches have been taken:

- (1) Title 222 WAC establishes minimum standards for all forest practices, regardless of the class of forest practice application.
- (2) Forest practices which have a potential for a substantial impact on the environment are classified as Class IV-Special or Class IV-General by WAC 222-16-050 and receive an evaluation as to whether or not a detailed statement must be prepared pursuant to chapter 43.21C RCW.
- (3) Certain rules are designed to focus on specific aspects of cumulative effects of forest practices. For example:
- (a) WAC 222-08-035 requires continuing review of the forest practices regulations and voluntary processes and adopts the concept of adaptive management. WAC 222-12-045 also adopts adaptive management.
- (b) WAC 222-12-040 allows alternate plans that equal or exceed the protection of public resources as provided in the act and rule.
- (c) WAC 222-24-050(1) allows the department to require road maintenance and abandonment plans for those drainages or road systems the department determines based on physical evidence to have a potential to damage public resources.

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- (d) WAC 222-30-025 addresses harvest unit size and separation requirements.
- (e) Chapter 222-22 WAC addresses cumulative effects on the public resources of fish, water, and capital improvements of the state or its political subdivisions.
- (f) Chapter 222-46 WAC establishes the enforcement policy for forest practices.
- (4) The board is considering measures to further protect cultural resources and wildlife resources. The board shall continue consultation with the departments of ecology, fish and wildlife, natural resources, forest landowners, and federally recognized tribes on these resource issues.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091, § 222-12-046, filed 12/3/97, effective 1/3/98. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-12-046, filed 7/2/92, effective 8/2/92.]

WAC 222-12-050 Notices to comply—Stop work orders. (1) Violations. When a forest practice has been completed, the department may issue a notice to comply requiring the operator or landowner to correct or compensate for damage to public resources where there was:

- (a) A violation of the act, or these rules, or
- (b) A deviation from the approved application, or
- (c) A willful or negligent disregard for potential damage to a public resource.
- (2) Other required action. When a forest practice has not yet been completed, the department may issue either a notice to comply to the operator and/or landowner, or a stop work order to the operator, requiring him/her to prevent potential or continuing damage to a public resource where:
- (a) The need for additional actions or restrictions has become evident, and
- (b) The department determines that a specific course of action is needed to prevent potential or continuing damage to public resources, and
- (c) The damage would result or is resulting from the forest practices activities, whether or not the activities involve any violation, unauthorized deviation or negligence.
- (3) No notice to comply shall be issued to require a person to prevent, correct, or compensate for any damage to public resources which occurs more than 1 year after the date of completion of the forest practices operations involved exclusive of reforestation, unless such forest practices were not conducted in accordance with forest practices rules: *Provided*, That this provision shall not relieve the forest landowner from any obligation to comply with forest practices rules and regulations pertaining to providing continuing road maintenance.
- (4) No notice to comply to recover money damages shall be issued more than 2 years after the date the damage involved occurs.
- (5) In emergency action, where the department requires the operator or landowner to do immediate work in the bed of the stream the department shall first seek approval from the department of fish and wildlife.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091, § 222-12-050, filed 12/3/97, effective 1/3/98; 93-12-001, § 222-12-050, filed 5/19/93, effective 6/19/93; Order 263, § 222-12-050, filed 6/16/76.]

WAC 222-12-060 Supplemental directives. Supplemental directives are advisory directives and are issued to forest landowners, timber owners and operators conducting forest practices, recommending an alternate preferred course of action or a minor change in the operation, which the department believes would provide greater assurance that the purposes and policies set forth in RCW 76.09.010 will be met.

[Order 263, § 222-12-060, filed 6/16/76.]

WAC 222-12-070 Enforcement policy. Procedures for enforcement of these regulations by the department are provided in chapter 222-46 WAC. Where the department of ecology determines that a person has failed to comply with the forest practices regulations relating to water quality protection, and that the department of natural resources has not issued a stop work order or notice to comply, the department of ecology shall inform the department thereof in writing. If the department of natural resources fails to take authorized enforcement action within 24 hours, under RCW 76.09.080, 76.09.090, 76.09.120 or 76.09.130, the department of ecology may petition to the chairman of the appeals board, who shall, within 48 hours, either deny the petition or direct the department of natural resources to immediately issue a stop work order or a notice to comply or impose a penalty. No civil or criminal penalties shall be imposed for past actions or omissions if such actions or omissions were conducted pursuant to an approval or directive of the department of natural resources.

[Order 263, § 222-12-070, filed 6/16/76.]

WAC 222-12-080 Administrative and judicial appeals. Forest landowners, timber owners, operators, counties and any aggrieved parties as defined by the Forest Practices Act may appeal to the forest practices appeals board certain actions and omissions of the department, including: Approval or disapproval of an application; any conditions attached to approval of an application, notices to comply, stop work orders, civil penalties assessed or notices of violation: *Provided*, That no notices to comply may be appealed to the appeals board unless first appealed to the department under RCW 76.09.090. The decision of the appeals board may be appealed to the superior court in accordance with the Administrative Procedure Act, chapter 34.04 RCW.

[Order 263, § 222-12-080, filed 6/16/76.]

WAC 222-12-090 Forest practices board manual.

When approved by the board the manual serves as an advisory technical supplement to these forest practices regulations. The department, in cooperation with the departments of fish and wildlife, agriculture, ecology, and such other agencies, affected Indian tribes, or interested parties as may have appropriate expertise, is directed to prepare, and submit to the board for approval, revisions to the forest practices board manual. The manual shall include:

(1) Method for determination of adequate shade requirements on streams needed for use with WAC 222-30-040.

- (2) **The standard methods** for measuring channel width, stream gradient and flow which are used in the water typing criteria WAC 222-16-030.
- (3) A chart for establishing recommended permanent culvert sizes and associated data.
- (4) **Guidelines** for clearing slash and debris from Type 4 and 5 Waters.
 - (5) Guidelines for landing location and construction.
- (6) **Guidelines** for determining acceptable stocking levels.
- (7) Guidelines for calculating average widths of riparian management zones.
 - (8) Guidelines for wetland delineation.
 - (9) Guidelines for wetland replacement or substitution.
 - (10) A list of nonnative wetland plant species.
- (11) The standard methodology, which shall specify the quantitative methods, indices of resource conditions, and definitions, for conducting watershed analysis under chapter 222-22 WAC. The department, in consultation with Timber/Fish/Wildlife's Cooperative Monitoring, Evaluation and Research Committee (CMER), may make minor modifications to the version of the standard methodology approved by the board. Substantial amendments to the standard methodology requires approval by the board.
- (12) A list of special concerns related to aerial application of pesticides developed under WAC 222-16-070(3).

(13)

- (14) Survey protocol for marbled murrelets. The Pacific seabird survey protocol in effect March 1, 1997, shall be used when surveying for marbled murrelets in a stand. Surveys conducted before the effective date of this rule are valid if they were conducted in substantial compliance with generally accepted survey protocols in effect at the beginning of the season in which they were conducted.
- (15) The department shall, in consultation with the department of fish and wildlife, develop **platform protocols** for use by applicants in estimating the number of platforms, and by the department in reviewing and classifying forest practices under WAC 222-16-050. These protocols shall include:
- (a) A sampling method to determine platforms per acre in the field;
- (b) A method to predict the number of platforms per acre based on information measurable from typical forest inventories. The method shall be derived from regression models or other accepted statistical methodology, and incorporate the best available data; and
- (c) Other methods determined to be reliable by the department, in consultation with the department of fish and wildlife.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091, § 222-12-090, filed 12/3/97, effective 1/3/98; 97-15-105, § 222-12-090, filed 7/21/97, effective 8/21/97. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-113, § 222-12-090, filed 7/21/92, effective 8/21/92. Statutory Authority: RCW 76.09.040. 88-19-112 (Order 551, Resolution No. 88-1), § 222-12-090, filed 9/21/88, effective 11/1/88; 87-23-036 (Order 535), § 222-12-090, filed 11/16/87, effective 11/1/88. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-12-090, filed 8/3/82, effective 10/1/82; Order 263, § 222-12-090, filed 6/16/76.]

Chapter 222-16 WAC DEFINITIONS

WAC	
222-16-010	General definitions.
222-16-030	Water typing system.
222-16-035	Wetland typing system.
222-16-050	Classes of forest practices.
222-16-060	Lands with a likelihood of future conversion.
222-16-070	Pesticide uses with the potential for a substantial impact
	on the environment.
222-16-080	Critical wildlife habitats (state) and critical habitat (federal) of threatened and endangered species.
222-16-085	Northern spotted owl habitats.
222-16-086	Northern spotted owl special emphasis areas and goals.
222-16-087	Marbled murrelet special landscape.
222-16-100	Planning options for the northern spotted owl.
222-16-105	Cooperative habitat enhancement agreements.

DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

222-16-020	Water categories. [Order 263, § 222-16-020, filed 6/16/76.] Repealed by 92-15-011, filed 7/2/92, effective
	8/2/92. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW.
222-16-040	Temperature sensitive waters. [Order 263, § 222-16-040
	WRIA Map, filed 6/16/76.] Repealed by 87-23-036
	(Order 535), filed 11/16/87, effective 1/1/88. Statutory
	Authority: RCW 76.09.040.

Reviser's note: For an explanation of the rules marked with an asterisk (*), see WAC 222-12-010.

WAC 222-16-010 General definitions.* Unless otherwise required by context, as used in these regulations:

"Act" means the Forest Practices Act, chapter 76.09 RCW.

"Affected Indian tribe" means any federally recognized Indian tribe that requests in writing from the department information on forest practices applications and notification filed on specified areas.

"Appeals board" means the forest practices appeals board established in the act.

"Area of resource sensitivity" means areas identified in accordance with WAC 222-22-050 (2)(d) or 222-22-060(2).

"Board" means the forest practices board established by the act.

"Bog" means wetlands which have the following characteristics: Hydric organic soils (peat and/or muck) typically 16 inches or more in depth (except over bedrock or hardpan); and vegetation such as sphagnum moss, labrador tea, bog laurel, bog rosemary, sundews, and sedges; bogs may have an overstory of spruce, western Hemlock, lodgepole pine, cedar, whitepine, crabapple, or aspen, and may be associated with open water. This includes nutrient-poor fens. See the *Forest Practices Board Manual*.

"Borrow pit" shall mean an excavation site outside the limits of construction to provide material necessary to that construction, such as fill material for the embankments.

"Chemicals" means substances applied to forest lands or timber including pesticides, fertilizers, and other forest chemicals.

"Clearcut" means a harvest method in which the entire stand of trees is removed in one timber harvesting operation. Except as provided in WAC 222-30-110, an area remains clearcut until:

It meets the minimum stocking requirements under WAC 222-34-010(2) or 222-34-020(2); and

The largest trees qualifying for the minimum stocking levels have survived on the area for five growing seasons or, if not, they have reached an average height of four feet.

"Columbia River Gorge National Scenic Area or CRGNSA" means the area established pursuant to the Columbia River Gorge National Scenic Area Act, 16 U.S.C. §544b(a).

"CRGNSA special management area" means the areas designated in the Columbia River Gorge National Scenic Area Act, 16 U.S.C. §544b(b) or revised pursuant to 16 U.S.C. §544b(c). For purposes of this rule, the special management area shall not include any parcels excluded by 16 U.S.C. §544f(o).

"CRGNSA special management area guidelines" means the guidelines and land use designations for forest practices developed pursuant to 16 U.S.C. §544f contained in the CRGNSA management plan developed pursuant to 15 U.S.C. §544d.

"Commercial tree species" means any species which is capable of producing a merchantable stand of timber on the particular site, or which is being grown as part of a Christmas tree or ornamental tree-growing operation.

"Completion of harvest" means the latest of:

Completion of removal of timber from the portions of forest lands harvested in the smallest logical unit that will not be disturbed by continued logging or an approved slash disposal plan for adjacent areas; or

Scheduled completion of any slash disposal operations where the department and the applicant agree within 6 months of completion of yarding that slash disposal is necessary or desirable to facilitate reforestation and agree to a time schedule for such slash disposal; or

Scheduled completion of any site preparation or rehabilitation of adjoining lands approved at the time of approval of the application or receipt of a notification: *Provided*, That delay of reforestation under this paragraph is permitted only to the extent reforestation would prevent or unreasonably hinder such site preparation or rehabilitation of adjoining lands.

"Constructed wetlands" means those wetlands voluntarily developed by the landowner. Constructed wetlands do not include wetlands created, restored, or enhanced as part of a mitigation procedure or wetlands inadvertently created as a result of current or past practices including, but not limited to: Road construction, landing construction, railroad construction, or surface mining.

"Contamination" means the introducing into the atmosphere, soil, or water, sufficient quantities of substances as may be injurious to public health, safety or welfare, or to domestic, commercial, industrial, agriculture or recreational uses, or to livestock, wildlife, fish or other aquatic life.

"Conversion option harvest plan" means a voluntary plan developed by the landowner and approved by the local government entity indicating the limits of harvest areas, road locations, and open space.

"Conversion to a use other than commercial timber operation" shall mean a bona fide conversion to an active use which is incompatible with timber growing.

"Cooperative habitat enhancement agreement (CHEA)" see WAC 222-16-105.

"Critical habitat (federal)" means the habitat of any threatened or endangered species designated as critical habitat by the United States Secretary of the Interior under Sections 3 (5)(A) and 4 (a)(3) of the Federal Endangered Species Act.

"Critical nesting season" means for marbled murrelets - April 1 to August 31.

"Critical wildlife habitat (state)" means those habitats designated by the board in accordance with WAC 222-16-080.

"Cultural resources" means archaeological and historic sites and artifacts and traditional religious, ceremonial and social uses and activities of affected Indian tribes.

"Cumulative effects" means the changes to the environment caused by the interaction of natural ecosystem processes with the effects of two or more forest practices.

"Daily peak activity" means for marbled murrelets one hour before official sunrise to two hours after official sunrise and one hour before official sunset to one hour after official sunset.

"Debris" means woody vegetative residue less than 3 cubic feet in size resulting from forest practice activities which would reasonably be expected to cause significant damage to a public resource.

"Demographic support" means providing sufficient suitable spotted owl habitat within the SOSEA to maintain the viability of northern spotted owl sites identified as necessary to meet the SOSEA goals.

"Department" means the department of natural resources.

"Dispersal habitat" see WAC 222-16-085(2).

"Dispersal support" means providing sufficient dispersal habitat for the interchange of northern spotted owls within or across the SOSEA, as necessary to meet SOSEA goals. Dispersal support is provided by a landscape consisting of stands of dispersal habitat interspersed with areas of higher quality habitat, such as suitable spotted owl habitat found within RMZs, WMZs or other required and voluntary leave areas.

"Eastern Washington" means the lands of the state lying east of an administrative line which approximates the change from the Western Washington timber types to the Eastern Washington timber types described as follows:

Beginning at the International Border and Okanogan National Forest boundary at the N1/4 corner Section 6, T. 40N, R. 24E., W.M., south and west along the Pasayten Wilderness boundary to the west line of Section 30, T. 37N, R. 19E.,

Thence south on range line between R. 18E. and R. 19E., to the Lake Chelan-Sawtooth Wilderness at Section 31, T. 35N, R. 19E.,

Thence south and east along the eastern wilderness boundary of Lake Chelan-Sawtooth Wilderness to the west line of Section 18, T. 31N, R. 19E. on the north shore of Lake Chelan,

Thence south on the range line between R. 18E. and R. 19E. to the SE corner of T. 28N, R. 18E.,

Thence west on the township line between T. 27N, and T. 28N to the NW corner of T. 27N, R. 17E.,

Thence south on range line between R. 16E. and R. 17E. to the Alpine Lakes Wilderness at Section 31, T. 26N, R. 17E.,

Thence south along the eastern wilderness boundary to the west line of Section 6, T. 22N, R. 17E.,

Thence south on range line between R. 16E. and R. 17E. to the SE corner of T. 22N, R. 16E.,

Thence west along township line between T. 21N, and T. 22N to the NW corner of T. 21N, R. 15E.,

Thence south along range line between R. 14E. and R. 15E. to SW corner of T. 20N, R. 15E.,

Thence east along township line between T. 19N, and T. 20N to the SW corner of T. 20N, R. 16E.,

Thence south along range line between R. 15E. and R. 16E. to the SW corner of T. 18N, R. 16E.,

Thence west along township line between T. 17N, and T. 18N to the SE corner of T. 18N, R. 14E.,

Thence south along range line between T. 14E. and R. 15E. to the SW corner of T. 14N, R. 15E.,

Thence south and west along Wenatchee National Forest Boundary to the NW corner of T. 12N, R. 14E.,

Thence south along range line between R. 13E. and R. 14E. to SE corner of T. 10N, R. 13E.,

Thence west along township line between T. 9N, and T. 10N to the NW corner of T. 9N, R. 12E.,

Thence south along range line between R. 11E. and R. 12E. to SE corner of T. 8N, R. 11E.,

Thence west along township line between T. 7N, and T. 8N to the Gifford Pinchot National Forest Boundary,

Thence south along Forest Boundary to SE corner of Section 33, T. 7N, R. 11E.,

Thence west along township line between T. 6N, and T. 7N to SE corner of T. 7N, R. 9E.,

Thence south along Skamania-Klickitat County line to Oregon-Washington state line.

"End hauling" means the removal and transportation of excavated material, pit or quarry overburden, or landing or road cut material from the excavation site to a deposit site not adjacent to the point of removal.

"Erodible soils" means those soils exposed or displaced by a forest practice operation, that would be readily moved by water.

"Even-aged harvest methods" means the following harvest methods:

Clearcuts;

Seed tree harvests in which twenty or fewer trees per acre remain after harvest;

Shelterwood regeneration harvests in which twenty or fewer trees per acre remain after harvest;

Group or strip shelterwood harvests creating openings wider than two tree heights, based on dominant trees;

Shelterwood removal harvests which leave fewer than one hundred fifty trees per acre which are at least five years old or four feet in average height;

Partial cutting in which fewer than fifty trees per acre remain after harvest;

Overstory removal when more than five thousand board feet per acre is removed and fewer than fifty trees per acre at least ten feet in height remain after harvest; and

Other harvesting methods designed to manage for multiple age classes in which six or fewer trees per acre remain after harvest.

Except as provided above for shelterwood removal harvests and overstory removal, trees counted as remaining after harvest shall be at least ten inches in diameter at breast height and have at least the top one-third of the stem supporting green, live crowns. Except as provided in WAC 222-30-110, an area remains harvested by even-aged methods until it meets the minimum stocking requirements under WAC 222-30-010(2) or 222-34-020(2) and the largest trees qualifying for the minimum stocking levels have survived on the area for five growing seasons or, if not, they have reached an average height of four feet.

"Fen" means wetlands which have the following characteristics: Peat soils 16 inches or more in depth (except over bedrock); and vegetation such as certain sedges, hardstem bulrush and cattails; fens may have an overstory of spruce and may be associated with open water.

"Fertilizers" means any substance or any combination or mixture of substances used principally as a source of plant food or soil amendment.

"Fill" means the placement of earth material or aggregate for road or landing construction or other similar activities. Fill does not include the growing or harvesting of timber including, but not limited to, slash burning, site preparation, reforestation, precommercial thinning, intermediate or final harvesting, salvage of trees, brush control, or fertilization.

"Flood level - 50 year." For purposes of field interpretation of these regulations, the 50-year flood level shall be considered to refer to a vertical elevation measured from the ordinary high-water mark which is 1.25 times the vertical distance between the average stream bed and the ordinary highwater mark, and in horizontal extent shall not exceed 2 times the channel width measured on either side from the ordinary high-water mark, unless a different area is specified by the department based on identifiable topographic or vegetative features or based on an engineering computation of flood magnitude that has a 2 percent chance of occurring in any given year. The 50-year flood level shall not include those lands that can reasonably be expected to be protected from flood waters by flood control devices maintained by or under license from the federal government, the state, or a political subdivision of the state.

"Forest land" means all land which is capable of supporting a merchantable stand of timber and is not being actively used for a use which is incompatible with timber growing.

"Forest land owner" shall mean any person in actual control of forest land, whether such control is based either on legal or equitable title, or on any other interest entitling the holder to sell or otherwise dispose of any or all of the timber on such land in any manner: *Provided*, That any lessee or other person in possession of forest land without legal or equitable title to such land shall be excluded from the definition of "forest land owner" unless such lessee or other person

has the right to sell or otherwise dispose of any or all of the timber located on such forest land.

"Forest practice" means any activity conducted on or directly pertaining to forest land and relating to growing, harvesting, or processing timber, including but not limited to:

Road and trail construction;

Harvesting, final and intermediate;

Precommercial thinning;

Reforestation;

Fertilization:

Prevention and suppression of diseases and insects;

Salvage of trees; and

Brush control.

"Forest practice" shall not include: Forest species seed orchard operations and intensive forest nursery operations; or preparatory work such as tree marking, surveying and road flagging; or removal or harvest of incidental vegetation from forest lands such as berries, ferns, greenery, mistletoe, herbs, mushrooms, and other products which cannot normally be expected to result in damage to forest soils, timber or public resources.

"Forest trees" excludes trees cultivated by agricultural methods in growing cycles shorter than ten years: *Provided*, That Christmas trees are forest trees and: *Provided further*, That this exclusion applies only to trees planted on land that was not in forest use immediately before the trees were planted and before the land was prepared for planting the trees.

"Green recruitment trees" means those trees left after harvest for the purpose of becoming future wildlife reserve trees under WAC 222-30-020(11).

"Herbicide" means any substance or mixture of substances intended to prevent, destroy, repel, or mitigate any tree, bush, weed or algae and other aquatic weeds.

"Historic site" includes:

Sites, areas and structures or other evidence of human activities illustrative of the origins, evolution and development of the nation, state or locality; or

Places associated with a personality important in history; or

Places where significant historical events are known to have occurred even though no physical evidence of the event remains.

"Identified watershed processes" means the following components of natural ecological processes that may in some instances be altered by forest practices in a watershed:

Mass wasting;

Surface and road erosion;

Seasonal flows including hydrologic peak and low flows and annual yields (volume and timing);

Large organic debris;

Shading; and

Stream bank and bed stability.

"Insecticide" means any substance or mixture of substances intended to prevent, destroy, repel, or mitigate any insect, other arthropods or mollusk pests.

"Interdisciplinary team" (ID Team) means a group of varying size comprised of individuals having specialized expertise, assembled by the department to respond to technical questions associated with a proposed forest practice activity.

"Islands" means any island surrounded by salt water in Kitsap, Mason, Jefferson, Pierce, King, Snohomish, Skagit, Whatcom, Island, or San Juan counties.

"Limits of construction" means the area occupied by the completed roadway or landing, including the cut bank, fill slope, and the area cleared for the purpose of constructing the roadway or landing.

"Load bearing portion" means that part of the road, landing, etc., which is supportive soil, earth, rock or other material directly below the working surface and only the associated earth structure necessary for support.

"Local government entity" means the governments of counties and the governments of cities and towns as defined in chapter 35.01 RCW.

"Low impact harvest" means use of any logging equipment, methods, or systems that minimize compaction or disturbance of soils and vegetation during the yarding process. The department shall determine such equipment, methods or systems in consultation with the department of ecology.

"Marbled murrelet detection area" means an area of land associated with a visual or audible detection of a marbled murrelet, made by a qualified surveyor which is documented and recorded in the department of fish and wildlife data base. The marbled murrelet detection area shall be comprised of the section of land in which the marbled murrelet detection was made and the eight sections of land immediately adjacent to that section.

"Marbled murrelet nesting platform" means any horizontal tree structure such as a limb, an area where a limb branches, a surface created by multiple leaders, a deformity, or a debris/moss platform or stick nest equal to or greater than 7 inches in diameter including associated moss if present, that is 50 feet or more above the ground in trees 32 inches dbh and greater (generally over 90 years of age) and is capable of supporting nesting by marbled murrelets.

"Median home range circle" means a circle, with a specified radius, centered on a spotted owl site center. The radius for the median home range circle in the Hoh-Clearwater/Coastal Link SOSEA is 2.7 miles; for all other SOSEAs the radius is 1.8 miles.

"Merchantable stand of timber" means a stand of trees that will yield logs and/or fiber:

Suitable in size and quality for the production of lumber, plywood, pulp or other forest products;

Of sufficient value at least to cover all the costs of harvest and transportation to available markets.

"Northern spotted owl site center" means the location of status 1, 2 or 3 northern spotted owls based on the following definitions:

Status 1:

Pair or reproductive - a male and female heard and/or observed in close proximity to each other on the same visit, a female detected on a nest, or one or both adults observed with young.

Status 2:

Two birds, pair status unknown - the presence or response of two birds of opposite sex where pair status cannot be determined and where at least one member meets the resident territorial single requirements.

Status 3:

Resident territorial single - the presence or response of a single owl within the same general area on three or more occasions within a breeding season with no response by an owl of the opposite sex after a complete survey; or three or more responses over several years (i.e., two responses in year one and one response in year two, for the same general area).

In determining the existence, location, and status of northern spotted owl site centers, the department shall consult with the department of fish and wildlife and use only those sites documented in substantial compliance with guidelines or protocols and quality control methods established by and available from the department of fish and wildlife.

"Notice to comply" means a notice issued by the department pursuant to RCW 76.09.090 of the act and may require initiation and/or completion of action necessary to prevent, correct and/or compensate for material damage to public resources which resulted from forest practices.

"Occupied marbled murrelet site" means:

- (1) A contiguous area of suitable marbled murrelet habitat where at least one of the following marbled murrelet behaviors or conditions occur:
 - (a) A nest is located; or
 - (b) Downy chicks or eggs or egg shells are found; or
- (c) Marbled murrelets are detected flying below, through, into or out of the forest canopy; or
- (d) Birds calling from a stationary location within the area; or
- (e) Birds circling above a timber stand within one tree height of the top of the canopy; or
- (2) A contiguous forested area, which does not meet the definition of suitable marbled murrelet habitat, in which any of the behaviors or conditions listed above has been documented by the department of fish and wildlife and which is distinguishable from the adjacent forest based on vegetative characteristics important to nesting marbled murrelets.
- (3) For sites defined in (1) above, the outer perimeter of the occupied site shall be presumed to be the closer, measured from the point where the observed behaviors or conditions listed in (1) above occurred, of the following:
- (a) 1.5 miles from the point where the observed behaviors or conditions listed in (1) above occurred; or
- (b) The beginning of any gap greater than 300 feet wide lacking one or more of the vegetative characteristics listed under "suitable marbled murrelet habitat"; or
- (c) The beginning of any narrow area of "suitable marbled murrelet habitat" less than 300 feet in width and more than 300 feet in length.
- (4) For sites defined under (2) above, the outer perimeter of the occupied site shall be presumed to be the closer, measured from the point where the observed behaviors or conditions listed in (1) above occurred, of the following:
- (a) 1.5 miles from the point where the observed behaviors or conditions listed in (1) above occurred; or
- (b) The beginning of any gap greater than 300 feet wide lacking one or more of the distinguishing vegetative characteristics important to murrelets; or
- (c) The beginning of any narrow area of suitable marbled murrelet habitat, comparable to the area where the observed

behaviors or conditions listed in (1) above occurred, less than 300 feet in width and more than 300 feet in length.

(5) In determining the existence, location and status of occupied marbled murrelet sites, the department shall consult with the department of fish and wildlife and use only those sites documented in substantial compliance with guidelines or protocols and quality control methods established by and available from the department of fish and wildlife.

"Old forest habitat" see WAC 222-16-085 (1)(a).

"Operator" shall mean any person engaging in forest practices except an employee with wages as his/her sole compensation.

"Ordinary high-water mark" means the mark on the shores of all waters, which will be found by examining the beds and banks and ascertaining where the presence and action of waters are so common and usual, and so long continued in all ordinary years, as to mark upon the soil a character distinct from that of the abutting upland, in respect to vegetation: *Provided*, That in any area where the ordinary highwater mark cannot be found, the ordinary high-water mark adjoining saltwater shall be the line of mean high tide and the ordinary high-water mark adjoining freshwater shall be the line of mean high-water.

"Other forest chemicals" means fire retardants when used to control burning (other than water), nontoxic repellents, oil, dust-control agents (other than water), salt, and other chemicals used in forest management, except pesticides and fertilizers, that may present hazards to the environment.

"Park" means any park included on the parks register maintained by the department pursuant to WAC 222-20-100(2). Developed park recreation area means any park area developed for high density outdoor recreation use.

"Partial cutting" means the removal of a portion of the merchantable volume in a stand of timber so as to leave an uneven-aged stand of well-distributed residual, healthy trees that will reasonably utilize the productivity of the soil. Partial cutting does not include seedtree or shelterwood or other types of regeneration cutting.

"Pesticide" means any insecticide, herbicide, fungicide, or rodenticide but does not include nontoxic repellents or other forest chemicals.

"Plantable area" is an area capable of supporting a commercial stand of timber excluding lands devoted to permanent roads, utility rights-of-way, that portion of riparian management zones where scarification is not permitted, and any other area devoted to a use incompatible with commercial timber growing.

"Power equipment" means all machinery operated with fuel burning or electrical motors, including heavy machinery, chain saws, portable generators, pumps, and powered backpack devices.

"Public resources" means water, fish, and wildlife and in addition shall mean capital improvements of the state or its political subdivisions.

"Qualified surveyor" means an individual who has successfully completed the marbled murrelet field training course offered by the department of fish and wildlife or its equivalent.

"Rehabilitation" means the act of renewing, or making usable and reforesting forest land which was poorly stocked or previously nonstocked with commercial species.

"Relief culvert" means a structure to relieve surface runoff from roadside ditches to prevent excessive buildup in water volume and velocity.

"Resource characteristics" means the following specific measurable characteristics of fish, water, and capital improvements of the state or its political subdivisions:

For fish and water:

Physical fish habitat, including temperature and turbidity;

Turbidity in hatchery water supplies; and

Turbidity and volume for areas of water supply.

For capital improvements of the state or its political subdivisions:

Physical or structural integrity.

If the methodology is developed and added to the manual to analyze the cumulative effects of forest practices on other characteristics of fish, water, and capital improvements of the state or its subdivisions, the board shall amend this list to include these characteristics.

"Riparian management zone" means a specified area alongside Type 1, 2 and 3 Waters where specific measures are taken to protect water quality and fish and wildlife habitat

"Rodenticide" means any substance or mixture of substances intended to prevent, destroy, repel, or mitigate rodents or any other vertebrate animal which the director of the state department of agriculture may declare by regulation to be a pest.

"Salvage" means the removal of snags, down logs, windthrow, or dead and dying material.

"Scarification" means loosening the topsoil and/or disrupting the forest floor in preparation for regeneration.

"Shorelines of the state" shall have the same meaning as in RCW 90.58.030 (Shoreline Management Act).

"Side casting" means the act of moving excavated material to the side and depositing such material within the limits of construction or dumping over the side and outside the limits of construction.

"Site preparation" means those activities associated with the removal of slash in preparing a site for planting and shall include scarification and/or slash burning.

"Skid trail" means a route used by tracked or wheeled skidders to move logs to a landing or road.

"Slash" means pieces of woody material containing more than 3 cubic feet resulting from forest practice activities

"SOSEA goals" means the goals specified for a spotted owl special emphasis area as identified on the SOSEA maps (see WAC 222-16-086). SOSEA goals provide for demographic and/or dispersal support as necessary to complement the northern spotted owl protection strategies on federal land within or adjacent to the SOSEA.

"Spoil" means excess material removed as overburden or generated during road or landing construction which is not used within limits of construction.

"Spotted owl dispersal habitat" see WAC 222-16-085(2).

"Spotted owl special emphasis areas (SOSEA)" means the geographic areas as mapped in WAC 222-16-086. Detailed maps of the SOSEAs indicating the boundaries and goals are available from the department at its regional offices.

"Stop work order" means the "stop work order" defined in RCW 76.09.080 of the act and may be issued by the department to stop violations of the forest practices chapter or to prevent damage and/or to correct and/or compensate for damages to public resources resulting from forest practices.

"Sub-mature habitat" see WAC 222-16-085 (1)(b).

"Suitable marbled murrelet habitat" means a contiguous forested area containing trees capable of providing nesting opportunities:

- (1) With all of the following indicators unless the department, in consultation with the department of fish and wildlife, has determined that the habitat is not likely to be occupied by marbled murrelets:
 - (a) Within 50 miles of marine waters;
- (b) At least 40% of the dominant and codominant trees are Douglas-fir, western hemlock, western red cedar or sitka spruce;
 - (c) Two or more nesting platforms per acre;
- (d) At least 7 acres in size, including the contiguous forested area within 300 feet of nesting platforms, with similar forest stand characteristics (age, species composition, forest structure) to the forested area in which the nesting platforms occur.

"Suitable spotted owl habitat" see WAC 222-16-085(1).

"Threatened or endangered species" means all species of wildlife listed as "threatened" or "endangered" by the United States Secretary of the Interior, and all species of wildlife designated as "threatened" or "endangered" by the Washington fish and wildlife commission.

"Timber" shall mean forest trees, standing or down, of a commercial species, including Christmas trees.

"Water bar" means a diversion ditch and/or hump in a trail or road for the purpose of carrying surface water runoff into the vegetation duff, ditch, or other dispersion area so that it does not gain the volume and velocity which causes soil movement and erosion.

"Watershed administrative unit (WAU)" means an area shown on the map specified in WAC 222-22-020(1).

"Watershed analysis" means, for a given WAU, the assessment completed under WAC 222-22-050 or 222-22-060 together with the prescriptions selected under WAC 222-22-070 and shall include assessments completed under WAC 222-22-050 where there are no areas of resource sensitivity.

"Weed" is any plant which tends to overgrow or choke out more desirable vegetation.

"Western Washington" means the lands of the state lying west of the administrative line described in the definition of Eastern Washington.

"Wetland" means those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions, such as swamps, bogs, fens, and similar areas. This includes wetlands created, restored, or enhanced as part of a mitigation procedure. This does not include constructed wetlands or the following surface waters of the state intentionally constructed from wetland sites: Irrigation and drainage ditches, grass lined swales, canals, agricultural detention facilities, farm ponds, and landscape amenities.

"Wetland functions" include the protection of water quality and quantity, providing fish and wildlife habitat, and the production of timber.

"Wetland management zone" means a specified area adjacent to Type A and B Wetlands where specific measures are taken to protect the wetland functions.

"Wildlife" means all species of the animal kingdom whose members exist in Washington in a wild state. The term "wildlife" includes, but is not limited to, any mammal, bird, reptile, amphibian, fish, or invertebrate, at any stage of development. The term "wildlife" does not include feral domestic mammals or the family Muridae of the order Rodentia (old world rats and mice).

"Wildlife reserve trees" means those defective, dead, damaged, or dying trees which provide or have the potential to provide habitat for those wildlife species dependent on standing trees. Wildlife reserve trees are categorized as follows:

Type 1 wildlife reserve trees are defective or deformed live trees that have observably sound tops, limbs, trunks, and roots. They may have part of the top broken out or have evidence of other severe defects that include: "Cat face," animal chewing, old logging wounds, weather injury, insect attack, or lightning strike. Unless approved by the landowner, only green trees with visible cavities, nests, or obvious severe defects capable of supporting cavity dependent species shall be considered as Type 1 wildlife reserve trees. These trees must be stable and pose the least hazard for workers.

Type 2 wildlife reserve trees are dead Type 1 trees with sound tops, limbs, trunks, and roots.

Type 3 wildlife reserve trees are live or dead trees with unstable tops or upper portions. Unless approved by the land-owner, only green trees with visible cavities, nests, or obvious severe defects capable of supporting cavity dependent species shall be considered as Type 3 wildlife reserve trees. Although the roots and main portion of the trunk are sound, these reserve trees pose high hazard because of the defect in live or dead wood higher up in the tree.

Type 4 wildlife reserve trees are live or dead trees with unstable trunks or roots, with or without bark. This includes "soft snags" as well as live trees with unstable roots caused by root rot or fire. These trees are unstable and pose a high hazard to workers.

"Windthrow" means a natural process by which trees are uprooted or sustain severe trunk damage by the wind.

"Young forest marginal habitat" see WAC 222-16-085 (1)(b).

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 98-07-047, § 222-16-010, filed 3/13/98, effective 5/1/98; 97-24-091, § 222-16-010, filed 12/3/97, effective 1/3/98; 97-15-105, § 222-16-010, filed 7/21/97, effective 8/21/97. Statutory Authority: Chapters 76.09 and 34.05 RCW. 96-12-038, § 222-16-010, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 94-17-033, § 222-16-010, filed 8/10/94, effective 8/13/94; 93-12-001, § 222-16-010, filed 5/19/93, effective 8/

92-15-011, § 222-16-010, filed 7/2/92, effective 8/2/92. Statutory Authority: RCW 76.09.040, 76.09.050 and 34.05.350. 92-03-028, § 222-16-010, filed 1/8/92, effective 2/8/92; 91-23-052, § 222-16-010, filed 11/15/91, effective 12/16/91. Statutory Authority: RCW 76.09.040. 88-19-112 (Order 551, Resolution No. 88-1), § 222-16-010, filed 9/21/88, effective 11/1/88; 87-23-036 (Order 535), § 222-16-010, filed 11/16/87, effective 1/1/88. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-16-010, filed 8/3/82, effective 10/1/82; Order 263, § 222-16-010, filed 6/16/76.]

WAC 222-16-030 Water typing system. *The department in cooperation with the departments of fish and wildlife, and ecology, and in consultation with affected Indian tribes shall classify streams, lakes and ponds and prepare stream classification maps showing the location of Type 1, 2, 3 and 4 Waters within the various forested areas of the state. Such maps shall be available for public inspection at region offices of the department. The waters will be classified using the following criteria. If a dispute arises concerning a water type the department shall make available informal conferences, which shall include the departments of fish and wildlife, and ecology, and affected Indian tribes and those contesting the adopted water types. These conferences shall be established under procedures established in WAC 222-46-020.

- *(1) "Type 1 Water" means all waters, within their ordinary high-water mark, as inventoried as "shorelines of the state" under chapter 90.58 RCW and the rules promulgated pursuant to chapter 90.58 RCW, but not including those waters' associated wetlands as defined in chapter 90.58 RCW.
- *(2) "Type 2 Water" shall mean segments of natural waters which are not classified as Type 1 Water and have a high fish, wildlife, or human use. These are segments of natural waters and periodically inundated areas of their associated wetlands, which:
- (a) Are diverted for domestic use by more than 100 residential or camping units or by a public accommodation facility licensed to serve more than 100 persons, where such diversion is determined by the department to be a valid appropriation of water and the only practical water source for such users. Such waters shall be considered to be Type 2 Water upstream from the point of such diversion for 1,500 feet or until the drainage area is reduced by 50 percent, whichever is less;
- (b) Are within a federal, state, local, or private campground having more than 30 camping units: *Provided*, That the water shall not be considered to enter a campground until it reaches the boundary of the park lands available for public use and comes within 100 feet of a camping unit, trail or other park improvement;
- (c) Are used by substantial numbers of anadromous or resident game fish for spawning, rearing or migration. Waters having the following characteristics are presumed to have highly significant fish populations:
- (i) Stream segments having a defined channel 20 feet or greater in width between the ordinary high-water marks and having a gradient of less than 4 percent.
- (ii) Lakes, ponds, or impoundments having a surface area of 1 acre or greater at seasonal low water; or
- (d) Are used by salmonids for off-channel habitat. These areas are critical to the maintenance of optimum survival of

juvenile salmonids. This habitat shall be identified based on the following criteria:

- (i) The site must be connected to a stream bearing salmonids and accessible during some period of the year; and
- (ii) The off-channel water must be accessible to juvenile salmonids through a drainage with less than a 5% gradient.
- *(3) "Type 3 Water" shall mean segments of natural waters which are not classified as Type 1 or 2 Water and have a moderate to slight fish, wildlife, and human use. These are segments of natural waters and periodically inundated areas of their associated wetlands which:
- (a) Are diverted for domestic use by more than 10 residential or camping units or by a public accommodation facility licensed to serve more than 10 persons, where such diversion is determined by the department to be a valid appropriation of water and the only practical water source for such users. Such waters shall be considered to be Type 3 Water upstream from the point of such diversion for 1,500 feet or until the drainage area is reduced by 50 percent, whichever is less:
- (b) Are used by significant numbers of anadromous fish for spawning, rearing or migration. Waters having the following characteristics are presumed to have significant anadromous fish use:
- (i) Stream segments having a defined channel of 5 feet or greater in width between the ordinary high-water marks; and having a gradient of less than 12 percent and not upstream of a falls of more than 10 vertical feet.
- (ii) Ponds or impoundments having a surface area of less than 1 acre at seasonal low water and having an outlet to an anadromous fish stream.
- (c) Are used by significant numbers of resident game fish. Waters with the following characteristics are presumed to have significant resident game fish use:
- (i) Stream segments having a defined channel of 10 feet or greater in width between the ordinary high-water marks; and a summer low flow greater than 0.3 cubic feet per second; and a gradient of less than 12 percent.
- (ii) Ponds or impoundments having a surface area greater than 0.5 acre at seasonal low water; or
- (d) Are highly significant for protection of downstream water quality. Tributaries which contribute greater than 20 percent of the flow to a Type 1 or 2 Water are presumed to be significant for 1,500 feet from their confluence with the Type 1 or 2 Water or until their drainage area is less than 50 percent of their drainage area at the point of confluence, whichever is less.
- *(4) "Type 4 Water" classification shall be applied to segments of natural waters which are not classified as Type 1, 2 or 3, and for the purpose of protecting water quality downstream are classified as Type 4 Water upstream until the channel width becomes less than 2 feet in width between the ordinary high-water marks. Their significance lies in their influence on water quality downstream in Type 1, 2, and 3 Waters. These may be perennial or intermittent.
- *(5) "Type 5 Water" classification shall be applied to all natural waters not classified as Type 1, 2, 3 or 4; including streams with or without well-defined channels, areas of perennial or intermittent seepage, ponds, natural sinks and drainageways having short periods of spring or storm runoff.

- *(6) For purposes of this section:
- (a) "Residential unit" means a home, apartment, residential condominium unit or mobile home, serving as the principal place of residence.
 - (b) "Camping unit" means an area intended and used for:
- (i) Overnight camping or picnicking by the public containing at least a fireplace, picnic table and access to water and sanitary facilities; or
- (ii) A permanent home or condominium unit or mobile home not qualifying as a "residential unit" because of part time occupancy.
- (c) "Resident game fish" means game fish as described in the Washington game code that spend their life cycle in fresh water. Steelhead, searun cutthroat and Dolly Varden trout are anadromous game fish and should not be confused with resident game fish.
- (d) "Public accommodation facility" means a business establishment open to and licensed to serve the public, such as a restaurant, tavern, motel or hotel.
- (e) "Natural waters" only excludes water conveyance systems which are artificially constructed and actively maintained for irrigation.
- (f) "Seasonal low flow" and "seasonal low water" mean the conditions of the 7-day, 2-year low water situation, as measured or estimated by accepted hydrologic techniques recognized by the department.
- (g) "Channel width and gradient" means a measurement over a representative section of at least 500 linear feet with at least 10 evenly spaced measurement points along the normal stream channel but excluding unusually wide areas of negligible gradient such as marshy or swampy areas, beaver ponds and impoundments. Channel gradient may be determined utilizing stream profiles plotted from United States geological survey topographic maps.
- (h) "Intermittent streams" means those segments of streams that normally go dry.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091, § 222-16-030, filed 12/3/97, effective 1/3/98. Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, § 222-16-030, filed 12/20/93, effective 1/1/94. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-16-030, filed 7/2/92, effective 8/2/92. Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-16-030, filed 11/16/87, effective 1/1/88; Order 263, § 222-16-030, filed 6/16/76,]

WAC 222-16-035 Wetland typing system. *The department in cooperation with the departments of fish and wildlife, and ecology, and affected Indian tribes shall classify wetlands. The wetlands will be classified in order to distinguish those which require wetland management zones and those which do not. Wetlands which require wetland management zones shall be identified using the following criteria. Accurate delineation of wetlands in accordance with the manual shall be required only where necessary to determine whether replacement by substitution or enhancement is required pursuant to WAC 222-24-025(10) and shall be limited to the area of wetland proposed to be filled. For the purposes of determining acreage to classify or type wetlands under this section, approximate determination using aerial photographs and maps, including the national wetlands inventory, shall be sufficient. In addition, the innermost

boundary of the wetland management zone on Type A or B wetlands may be determined by either of two methods: Delineation of the wetland edge, or identifying the point where the crown cover changes from less than 30% to 30% or more. Except where necessary to determine whether replacement by substitution or enhancement is required pursuant to WAC 222-24-025(10), accurate delineation shall not be required under this Title 222 WAC for activities regulated by these rules, including but not limited to the location of roads, landings, culverts, and cross drains. Landowners are encouraged to leave vegetation in these forested wetlands in undisturbed leave areas where possible. When so requested by any affected landowners, applicant or aggrieved person, the department shall make available informal conferences, which shall include the departments of fish and wildlife, and ecology, and affected Indian tribes and those contesting the adopted wetland types. These conferences shall be established under procedures established in WAC 222-46-020.

- *(1) "Nonforested wetlands" means any wetland or portion thereof that has, or if the trees were mature would have, a crown closure of less than 30 percent.
- (a) "Type A Wetland" classification shall be applied to all nonforested wetlands which:
- (i) Are greater than 0.5 acre in size, including any acreage of open water where the water is completely surrounded by the wetland; and
- (ii) Are associated with at least 0.5 acre of ponded or standing open water. The open water must be present on the site for at least 7 consecutive days between April 1 and October 1 to be considered for the purposes of these rules; or
- (b) "Type B Wetland" classification shall be applied to all other nonforested wetlands greater than 0.25 acre.
- *(2) "Forested wetland" means any wetland or portion thereof that has, or if the trees were mature would have, a crown closure of 30 percent or more.
- *(3) "All forested and nonforested bogs" greater than 0.25 acres shall be considered Type A Wetlands.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091, § 222-16-035, filed 12/3/97, effective 1/3/98; 94-17-033, § 222-16-035, filed 8/10/94, effective 8/13/94. Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, § 222-16-035, filed 12/20/93, effective 1/1/94. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-16-035, filed 7/2/92, effective 8/2/92.]

- WAC 222-16-050 Classes of forest practices. There are 4 classes of forest practices created by the act. All forest practices (including those in Classes I and II) must be conducted in accordance with the forest practices regulations.
- (1) "Class IV special." Application to conduct forest practices involving the following circumstances requires an environmental checklist in compliance with the State Environmental Policy Act (SEPA), and SEPA guidelines, as they have been determined to have potential for a substantial impact on the environment. It may be determined that additional information or a detailed environmental statement is required before these forest practices may be conducted.
- *(a) Aerial application of pesticides in a manner identified as having the potential for a substantial impact on the environment under WAC 222-16-070 or ground application of a pesticide within a Type A or B wetland.

(b) Specific forest practices listed in WAC 222-16-080 on lands designated as:

- (i) Critical wildlife habitat (state) of threatened or endangered species; or
- (ii) Critical habitat (federal) of threatened or endangered species except those excluded by the board under WAC 222-16-080(3).
- (c) Harvesting, road construction, aerial application of pesticides and site preparation on all lands within the boundaries of any national park, state park, or any park of a local governmental entity, except harvest of less than 5 MBF within any developed park recreation area and park managed salvage of merchantable forest products.
- *(d) Construction of roads, landings, rock quarries, gravel pits, borrow pits, and spoil disposal areas on slide prone areas as defined in WAC 222-24-020(6) and field verified by the department, in a watershed administrative unit that has not undergone a watershed analysis under chapter 222-22 WAC, when such slide prone areas occur on an uninterrupted slope above water typed pursuant to WAC 222-16-030, Type A or Type B Wetland, or capital improvement of the state or its political subdivisions where there is potential for a substantial debris flow or mass failure to cause significant impact to public resources.
- *(e) Timber harvest in a watershed administrative unit that has not undergone a watershed analysis under chapter 222-22 WAC, on slide prone areas, field verified by the department, where soils, geologic structure, and local hydrology indicate that canopy removal has the potential for increasing slope instability, when such areas occur on an uninterrupted slope above any water typed pursuant to WAC 222-16-030, Type A or Type B Wetland, or a capital improvement of the state or its political subdivisions where there is a potential for a substantial debris flow or mass failure to cause significant impact to public resources.
- (f) Timber harvest, in a watershed administrative unit that has not undergone a watershed analysis under chapter 222-22 WAC, construction of roads, landings, rock quarries, gravel pits, borrow pits, and spoil disposal areas on snow avalanche slopes within those areas designated by the department, in consultation with department of transportation, as high avalanche hazard.
- (g) Timber harvest, construction of roads, landings, rock quarries, gravel pits, borrow pits, and spoil disposal areas on archaeological or historic sites registered with the Washington state office of archaeology and historic preservation, or on sites containing evidence of Native American cairns, graves, or glyptic records, as provided for in chapters 27.44 and 27.53 RCW. The department shall consult with affected Indian tribes in identifying such sites.
- *(h) Forest practices subject to a watershed analysis conducted under chapter 222-22 WAC in an area of resource sensitivity identified in that analysis which deviates from the prescriptions (which may include an alternate plan) in the watershed analysis.
- *(i) Filling or draining of more than 0.5 acre of a wetland.
- (2) "Class IV general." Applications involving the following circumstances are "Class IV general" forest practices unless they are listed in "Class IV special." Upon

receipt of an application, the department will determine the lead agency for purposes of compliance with the State Environmental Policy Act pursuant to WAC 197-11-924 and 197-11-938(4) and RCW 43.21C.037(2). Such applications are subject to a 30-day period for approval unless the lead agency determines a detailed statement under RCW 43.21C.030 (2)(c) is required. Upon receipt, if the department determines the application is for a proposal that will require a license from a county/city acting under the powers enumerated in RCW 76.09.240, the department shall notify the applicable county/city under WAC 197-11-924 that the department has determined according to WAC 197-11-938(4) that the county/city is the lead agency for purposes of compliance with State Environmental Policy Act.

- (a) Forest practices (other than those in Class I) on lands platted after January 1, 1960, or on lands being converted to another use.
- (b) Forest practices which would otherwise be Class III, but which are taking place on lands which are not to be reforested because of likelihood of future conversion to urban development. (See WAC 222-16-060 and 222-34-050.)
- (3) "Class I." Those operations that have been determined to have no direct potential for damaging a public resource are Class I forest practices. When the conditions listed in "Class IV Special" are not present, these operations may be commenced without notification or application.
 - (a) Culture and harvest of Christmas trees and seedlings.
- *(b) Road maintenance except: (i) Replacement of bridges and culverts across Type 1, 2, 3 or flowing Type 4 Waters; or (ii) movement of material that has a direct potential for entering Type 1, 2, 3 or flowing Type 4 Waters or Type A or B Wetlands.
- *(c) Construction of landings less than 1 acre in size, if not within a shoreline area of a Type 1 Water, the riparian management zone of a Type 2 or 3 Water, the ordinary highwater mark of a Type 4 Water, a wetland management zone, a wetland, or the CRGNSA special management area.
- *(d) Construction of less than 600 feet of road on a sideslope of 40 percent or less if the limits of construction are not within the shoreline area of a Type 1 Water, the riparian management zone of a Type 2 or Type 3 Water, the ordinary highwater mark of a Type 4 Water, a wetland management zone, a wetland, or the CRGNSA special management area.
- *(e) Installation or removal of a portable water crossing structure where such installation does not take place within the shoreline area of a Type 1 Water and does not involve disturbance of the beds or banks of any waters.
- *(f) Initial installation and replacement of relief culverts and other drainage control facilities not requiring a hydraulic permit.
 - (g) Rocking an existing road.
 - (h) Loading and hauling timber from landings or decks.
- (i) Precommercial thinning and pruning, if not within the CRGNSA special management area.
 - (j) Tree planting and seeding.
- (k) Cutting and/or removal of less than 5,000 board feet of timber (including live, dead and down material) for personal use (i.e., firewood, fence posts, etc.) in any 12-month period, if not within the CRGNSA special management area.
 - (1) Emergency fire control and suppression.

- (m) Slash burning pursuant to a burning permit (RCW 76.04.205).
- *(n) Other slash control and site preparation not involving either off-road use of tractors on slopes exceeding 40 percent or off-road use of tractors within the shorelines of a Type 1 Water, the riparian management zone of any Type 2 or 3 Water, or the ordinary high-water mark of a Type 4 Water, a wetland management zone, a wetland, or the CRGNSA special management area.
- *(o) Ground application of chemicals, if not within the CRGNSA special management area. (See WAC 222-38-020 and 222-38-030.)
- *(p) Aerial application of chemicals (except insecticides), outside of the CRGNSA special management area when applied to not more than 40 contiguous acres if the application is part of a combined or cooperative project with another landowner and where the application does not take place within 100 feet of lands used for farming, or within 200 feet of a residence, unless such farmland or residence is owned by the forest landowner. Provisions of chapter 222-38 WAC shall apply.
- (q) Forestry research studies and evaluation tests by an established research organization.
- (r) Any of the following if none of the operation or limits of construction takes place within the shoreline area of a Type 1 Water or the riparian management zone of a Type 2 or 3 Water, the ordinary high-water mark of a Type 4 Water or flowing Type 5 Water, or within the CRGNSA special management area and the operation does not involve off-road use of tractor or wheeled skidding systems on a sideslope of greater than 40 percent:
- (i) Any forest practices within the boundaries of existing golf courses.
- (ii) Any forest practices within the boundaries of existing cemeteries which are approved by the cemetery board.
- (iii) Any forest practices involving a single landowner where contiguous ownership is less than two acres in size.
- (s) Removal of beaver structures from culverts on active and inactive roads. A hydraulics project approval from the Washington department of fish and wildlife may be required.
- (4) "Class II." Certain forest practices have been determined to have a less than ordinary potential to damage a public resource and may be conducted as Class II forest practices: *Provided*, That no forest practice enumerated below may be conducted as a Class II forest practice if the operation requires a hydraulic project approval (RCW 75.20.100) or is within a "shorelines of the state," or involves a bond in lieu of landowners signature (other than renewals). Such forest practices require an application. No forest practice enumerated below may be conducted as a "Class II" forest practice if it takes place on lands platted after January 1, 1960, or on lands being converted to another use. Such forest practices require a Class IV application. Class II forest practices are the following:
- (a) Renewal of a prior Class II notification where no change in the nature and extent of the forest practices is required under rules effective at the time of renewal.
- (b) Renewal of a previously approved Class III or IV forest practice application where:

- (i) No modification of the uncompleted operation is proposed;
- (ii) No notices to comply, stop work orders or other enforcement actions are outstanding with respect to the prior application; and
- (iii) No change in the nature and extent of the forest practice is required under rules effective at the time of renewal.
- *(c) Any of the following if none of the operation or limits of construction takes place within the riparian management zone of a Type 2 or 3 Water, within the ordinary highwater mark of a Type 4 Water, within a wetland management zone, within a wetland, or within the CRGNSA special management area:
 - (i) Construction of advance fire trails.
- (ii) Opening a new pit of, or extending an existing pit by, less than 1 acre.
- *(d) Any of the following if none of the operation or limits of construction takes place within the riparian management zone of a Type 2 or 3 Water, within the ordinary highwater mark of a Type 4 Water, within a wetland management zone or within a wetland; and if none of the operations involve off-road use of tractor or wheeled skidding systems on a sideslope of greater than 40 percent:

Salvage of logging residue.

- *(e) Any of the following if none of the operation or limits of construction takes place within the riparian management zone of a Type 2 or 3 Water, within the ordinary highwater mark of a Type 4 Water, within a wetland management zone, within a wetland, or within the CRGNSA special management area, and if none of the operations involve off-road use of tractor or wheeled skidding systems on a sideslope of greater than 40 percent, and if none of the operations are located on lands with a likelihood of future conversion (see WAC 222-16-060):
- (i) West of the Cascade summit, partial cutting of 40 percent or less of the live timber volume.
- (ii) East of the Cascade summit, partial cutting of 5,000 board feet per acre or less.
- (iii) Salvage of dead, down, or dying timber if less than 40 percent of the total timber volume is removed in any 12-month period.
 - (iv) Any harvest on less than 40 acres.
- (v) Construction of 600 or more feet of road, provided that the department shall be notified at least 2 business days before commencement of the construction.
- (5) "Class III." Forest practices not listed under Classes IV, I or II above are "Class III" forest practices. Among Class III forest practices are the following:
- (a) Those requiring hydraulic project approval (RCW 75.20.100).
- *(b) Those within the shorelines of the state other than those in a Class I forest practice.
- *(c) Aerial application of insecticides, except where classified as a Class IV forest practice.
- *(d) Aerial application of chemicals (except insecticides), except where classified as Class I or IV forest practices.
- *(e) Harvest or salvage of timber except where classed as Class I, II or IV forest practices.

- *(f) All road construction and reconstruction except as listed in Classes I, II and IV forest practices.
- (g) Opening of new pits or extensions of existing pits over 1 acre.
 - *(h) Road maintenance involving:
- (i) Replacement of bridges or culverts across Type 1, 2, 3, or flowing Type 4 Waters; or
- (ii) Movement of material that has a direct potential for entering Type 1, 2, 3 or flowing Type 4 Waters or Type A or B Wetlands.
- (i) Operations involving an applicant's bond in lieu of a landowner's signature.
- (j) Site preparation or slash abatement not listed in Classes I or IV forest practices.
- (k) Harvesting, road construction, site preparation or aerial application of pesticides on lands which contain cultural, historic or archaeological resources which, at the time the application or notification is filed, are:
- (i) On or are eligible for listing on the National Register of Historic Places; or
- (ii) Have been identified to the department as being of interest to an affected Indian tribe.
- (l) Harvesting exceeding 19 acres in a designated difficult regeneration area.
- (m) Utilization of an alternate plan. See WAC 222-12-040.
- *(n) Any filling of wetlands, except where classified as Class IV forest practices.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 98-07-047, § 222-16-050, filed 3/13/98, effective 5/1/98; 97-24-091, § 222-16-050, filed 12/3/97, effective 1/3/98; 93-12-001, § 222-16-050, filed 5/19/93, effective 6/19/93. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-16-050, filed 7/2/92, effective 8/2/92. Statutory Authority: RCW 76.09.040, 76.09.050 and 34.05.350. 91-23-052, § 222-16-050, filed 11/15/91, effective 12/16/91. Statutory Authority: RCW 76.09.040. 88-19-112 (Order 551, Resolution No. 88-1), § 222-16-050, filed 9/21/88, effective 11/1/88; 87-23-036 (Order 535), § 222-16-050, filed 11/16/87, effective 1/1/88. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-16-050, filed 8/3/82, effective 10/1/82; Order 263, § 222-16-050, filed 6/16/76.]

WAC 222-16-060 Lands with a likelihood of future conversion. (1) Prior to identification of any forest lands as having a likelihood of future conversion to urban development within a ten-year period, the department shall consider all available information, including but not limited to:

- (a) Whether the land is assessed under the provisions of chapter 84.33 or 84.34 RCW;
- (b) Whether the land is excluded from any local improvement district;
- (c) Whether the classification of the land in the local comprehensive plan or the local zoning ordinance permits or encourages long-term timber production;
- (d) Whether the land lies outside the current or proposed boundary of a city or the urban growth boundary of a city or outside a water or sewer district;
- (e) Whether the land has received previous development permit approval;
- (f) The presence or absence of a written forest management plan for the land.

Any identification must be consistent with any local or regional land use plans or ordinances.

- (2) A local government entity with jurisdiction or an affected Indian tribe may submit to the department a proposal for identification of forest lands that have the likelihood of future conversion to urban development within a ten-year period.
- (3) The department may develop a public participation process when identifying forest lands with a likelihood of future conversion to urban development within a ten-year period.
- (4) Forest lands that have been identified by the department prior to the effective date of this section as having a likelihood of future conversion to urban development within a ten-year period shall be reviewed under subsection (1) of this section to determine if the identification should be withdrawn or modified.
- (5) A landowner that submits an application or notification in an area that has been identified as having a likelihood of future conversion to urban development within a ten-year period may request the department to reconsider the identification of the affected parcel. The department shall remove the identification if the landowner complies with (a) of this subsection and at least one from (b) or (c) of this subsection:
- (a) The landowner submits a statement of intent not to convert to a use other than commercial timber operation for a period of ten years after completion of the forest practice. The statement shall be on a form prepared by the department and shall indicate the landowner is aware of the provisions of RCW 76.09.060 (3)(b); and
- (b) The land is enrolled under the provisions of chapter 84.28, 84.33, or 84.34 RCW; or
- (c) A written forest management plan for the land covering the next ten years has been reviewed and accepted by the department.

[Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, \S 222-16-060, filed 12/20/93, effective 1/1/94. Statutory Authority: RCW 76.09.040, 76.09.050 and 34.05.350. 91-23-052, \S 222-16-060, filed 11/15/91, effective 12/16/91.]

WAC 222-16-070 Pesticide uses with the potential for a substantial impact on the environment. *To identify forest practices involving pesticide uses that have the potential for a substantial impact on the environment, the department shall apply the process prescribed in this section. See WAC 222-16-050 (1)(a).

- (1) Pesticide list The department shall maintain a list of all pesticides registered under chapter 15.58 RCW for use in forest practices. The department shall conduct, in consultation with the departments of ecology, health, agriculture, and fish and wildlife, an annual review of the list for the purpose of including new pesticides and/or removing those pesticides which have been prohibited from use. The list shall be available to the public at each of the department's offices. A list of the department's offices and their addresses appears at WAC 332-10-030. In preparing the pesticide list, the department shall include information on the following characteristics:
- (a) Active ingredients, name brand or trade mark, labeled uses, pesticide type, EPA-registration number;
- (b) Toxicity of the pesticide based on the Environmental Protection Agency (EPA) label warning under 40 C.F.R. 156.10 (h)(1), listed as "caution," "warning," "danger," or

- "danger poison" except as modified to consider aquatic or mammalian toxicity; and
- (c) Whether the pesticide is a state restricted use pesticide for the protection of ground water under WAC 16-228-164(1).
- (2) Key for evaluating applications. To determine whether aerial application of a pesticide has the potential for a substantial impact on the environment, the department shall apply the following analysis:

KEY FOR EVALUATION OF SITE SPECIFIC USE OF AERIALLY APPLIED CHEMICALS

Question	Question	Resp	Action
1 (a)	Is the pesticide on the pesticide list (WAC 222-16-070(1))?	Yes No	go to 2 go to 1(b)
1 (b)	Is the pesticide being used under a Dept of Agriculture Experimental Use Permit (WAC 16-228-125)?	Yes No	Class III Class IV Sp
2	Is the toxicity rating for the pesticide to be used "Danger - Poison" as designated in the pesticide list (WAC 222-16-070(1)(b))?	Yes No	Class IV Sp go to 3(a)
3 (a)	Is <u>Bacillus thuringiensis</u> (BT) the only pesticide being used on this application?	Yes No	go to 3(b) go to 4(a)
3 (b)	Is there a Threatened or Endangered species or the critical habitat (Federal) or critical wildlife habitat (State) of a species within the application area that is susceptible to the BT strain being used?	Yes No	Class IV Sp Class III
4 (a)	Is this operation occurring over ground water with a high susceptibility to contamination as specified in EPA 910/9-87-189 or in documentation provided by the department of ecology?	Yes No	go to 4(b) go to 5(a)
4 (b)	Is this pesticide a state restricted use pesticide for the protection of ground water under WAC 16-228-164 (1)?	Yes No	Class IV Sp go to 5(a)
5 (a)	Is the operation adjacent (within 100 ft.) of surface water?	Yes No	go to 5(b) go to 5(e)
5 (b)	Determine the toxicity rating from the pesticide list: *Is the toxicity rating "Caution" or "Warning"? *Is the toxicity rating "Danger"?	Yes Yes	go to 5(c) go to 5(d)
5 (c)	Is there a Group A or B water surface water system (WAC 246-290-020) intake OR a fish hatchery intake within one half mile downstream of the operation?	Yes No	Class IV Sp go to 5(e)

KEY FOR EVALUATION OF SITE SPECIFIC USE OF AERIALLY APPLIED CHEMICALS

Question	Question	Resp	Action
5 (d)	Is there a Group A or B water surface system intake OR a fish hatchery intake within 1 mile downstream of the operation?	Yes No	Class IV Sp go to 5(e)
5 (e)	Is the operation within 200 feet of the intake of a Group A or B spring water system?	Yes No	Class IV Sp go to 5(f)
5 (f)	Is the operation applying a pesticide in a Type A or B wetland?	Yes No	Class IV Sp go to 6(a)
6 (a)	Does any portion of the planned operation cover 240 or more contiguous acres? Pesticide treatment units will be considered contiguous if they are separated by less than 300 feet or treatment dates of adjacent units are less than 90 days apart.	Yes No	Class IV Sp go to 6(b)
6 (b)	Is there a Threatened or Endangered species or the critical habitat (Federal) or critical wildlife habitat (State) of a species within the application area?	Yes No	Class IV Sp go to 6(c)
6 (c)	If there is a special concern identified for this pesticide in the Board manual, does it apply to this application?	Yes No	Class IV Sp Class III

(3) Special concerns (see WAC 222-16-070 (2)6(c)) shall be evaluated by the department of agriculture. Information regarding special concerns shall be presented to the board for review. Approved special concerns shall be included in the board's manual. Special concerns shall include situations where use of pesticides has the potential for a substantial impact on the environment, beyond those covered specifically in the key in subsection (2) of this section.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091, § 222-16-070, filed 12/3/97, effective 1/3/98; 93-12-001, § 222-16-070, filed 5/19/93, effective 6/19/93. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-16-070, filed 7/2/92, effective 8/2/92.]

WAC 222-16-080 Critical wildlife habitats (state) and critical habitat (federal) of threatened and endangered species. (1) Critical wildlife habitats (state) of threatened or endangered species and specific forest practices designated as Class IV-Special are as follows:

(a) Bald eagle - harvesting, road construction, aerial application of pesticides, or site preparation within 0.5 mile of a known active nest site, documented by the department of fish and wildlife, between the dates of January 1 and August 15 or 0.25 mile at other times of the year; and within 0.25 mile of a communal roosting site. Communal roosting sites shall not include refuse or garbage dumping sites.

(b) Gray wolf - harvesting, road construction, or site preparation within 1 mile of a known active den site, documented by the department of fish and wildlife, between the dates of March 15 and July 30 or 0.25 mile from the den site at other times of the year.

- (c) Grizzly bear harvesting, road construction, aerial application of pesticides, or site preparation within 1 mile of a known active den site, documented by the department of fish and wildlife, between the dates of October 1 and May 30 or 0.25 mile at other times of the year.
- (d) Mountain caribou harvesting, road construction, aerial application of pesticides, or site preparation within 0.25 mile of a known active breeding area, documented by the department of fish and wildlife.
- (e) Oregon silverspot butterfly harvesting, road construction, aerial or ground application of pesticides, or site preparation within 0.25 mile of an individual occurrence, documented by the department of fish and wildlife.
- (f) Peregrine falcon harvesting, road construction, aerial application of pesticides, or site preparation within 0.5 mile of a known active nest site, documented by the department of fish and wildlife, between the dates of March 1 and July 30; or harvesting, road construction, or aerial application of pesticides within 0.25 mile of the nest site at other times of the year.
- (g) Sandhill crane harvesting, road construction, aerial application of pesticides, or site preparation within 0.25 mile of a known active nesting area, documented by the department of fish and wildlife.
- (h) Northern spotted owl the following shall apply through June 30, 1996: Harvesting, road construction, or aerial application of pesticides on the most suitable 500 acres of nesting, roosting, and foraging habitat surrounding the northern spotted owl site center. The most suitable habitat shall be determined by the department in cooperation with the department of fish and wildlife, tribes, and others with applicable expertise. Consideration shall be given to habitat quality, proximity to the activity center and contiguity in selecting the most suitable 500 acres of habitat.

Beginning July 1, 1996, the following shall apply for the northern spotted owl:

- (i) Within a SOSEA boundary (see maps in WAC 222-16-086), except as indicated in (h)(ii) of this subsection, harvesting, road construction, or aerial application of pesticides on suitable spotted owl habitat within a median home range circle that is centered within the SOSEA or on adjacent federal lands.
- (ii) Within the Entiat SOSEA, harvesting, road construction, or aerial application of pesticides within the areas indicated for demographic support (see WAC 222-16-086(2)) on suitable spotted owl habitat located within a median home range circle that is centered within the demographic support area.
- (iii) **Outside of a SOSEA**, harvesting, road construction, or aerial application of pesticides, between March 1 and August 31 on the seventy acres of highest quality suitable spotted owl habitat surrounding a northern spotted owl site center located outside a SOSEA. The highest quality suitable habitat shall be determined by the department in cooperation with the department of fish and wildlife. Consideration shall

be given to habitat quality, proximity to the activity center and contiguity.

- (iv) Small parcel northern spotted owl exemption. Forest practices proposed on the lands owned or controlled by a landowner whose forest land ownership within the SOSEA is less than or equal to 500 acres and where the forest practice is not within 0.7 mile of a northern spotted owl site center shall not be considered to be on lands designated as critical wildlife habitat (state) for northern spotted owls.
- (i) Western pond turtle harvesting, road construction, aerial application of pesticides, or site preparation within 0.25 mile of a known individual occurrence, documented by the department of wildlife.
 - (i) Marbled murrelet.
- (i) Harvesting, other than removal of down trees outside of the critical nesting season, or road construction within an occupied marbled murrelet site.
- (ii) Harvesting, other than removal of down trees outside of the critical nesting season, or road construction within suitable marbled murrelet habitat within a marbled murrelet detection area.
- (iii) Harvesting, other than removal of down trees outside of the critical nesting season, or road construction within suitable marbled murrelet habitat containing 7 platforms per acre outside a marbled murrelet detection area.
- (iv) Harvesting, other than removal of down trees outside of the critical nesting season, or road construction outside a marbled murrelet detection area within a marbled murrelet special landscape and within suitable marbled murrelet habitat with 5 or more platforms per acre.
- (v) Harvesting within a 300 foot managed buffer zone adjacent to an occupied marbled murrelet site that results in less than a residual stand stem density of 75 trees per acre greater than 6 inches in dbh; provided that 25 of which shall be greater than 12 inches dbh including 5 trees greater than 20 inches in dbh, where they exist. The primary consideration for the design of managed buffer zone widths and leave tree retention patterns shall be to mediate edge effects. The width of the buffer zone may be reduced in some areas to a minimum of 200 feet and extended to a maximum of 400 feet as long as the average of 300 feet is maintained.
- (vi) Except that the following shall not be critical wildlife habitat (state):
- (A) Where a landowner owns less than 500 acres of forest land within 50 miles of saltwater and the land does not contain an occupied marbled murrelet site; or
- (B) Where a protocol survey (see WAC 222-12-090(14)) has been conducted and no murrelets were detected. The landowner is then relieved from further survey requirements. However, if an occupied marbled murrelet site is established, this exemption is void.
- (2) The following critical habitats (federal) designated by the United States Secretary of the Interior, or specific forest practices within those habitats, have been determined to not have the potential for a substantial impact on the environment:

Marbled murrelet critical habitat 50 C.F.R. §17.95(b), 61 Fed. Reg. 26256 as a result of provisions of the state's marbled murrelet rule.

- (3) For the purpose of identifying forest practices which have the potential for a substantial impact on the environment with regard to threatened or endangered species newly listed by the Washington fish and wildlife commission and/or the United States Secretary of the Interior, the department shall after consultation with the department of fish and wildlife, prepare and submit to the board a proposed list of critical wildlife habitats (state) of threatened or endangered species. This list shall be submitted to the board within 15 days of the listing of the species. The department shall, at a minimum, consider potential impacts of forest practices on habitats essential to meeting the life requisites for each species listed as threatened or endangered. Those critical wildlife habitats (state) adopted by the board shall be added to the list in subsection (1) of this section. See WAC 222-16-050 (1)(b)(i).
- (4) For the purpose of identifying any areas and/or forest practices within critical habitats (federal) designated by the United States Secretary of the Interior which do not have the potential for a substantial impact on the environment, the department shall, after consultation with the department of fish and wildlife, submit to the board a proposed list of any forest practices and/or areas proposed for exclusion from Class IV special forest practices. The department shall submit the list to the board within 120 days of the date the United States Secretary of the Interior publishes a final rule designating critical habitat (federal) in the Federal Register. Those critical habitats excluded by the board from Class IV Special shall be added to the list in subsection (2) of this section. See WAC 222-16-050 (1)(b)(ii).
- (5)(a) Except for bald eagles under subsection (1)(a) of this section, the critical wildlife habitats (state) of threatened and endangered species and specific forest practices designated in subsection (1) of this section are intended to be interim. These interim designations shall expire for a given species on the earliest of:
- (i) The effective date of a regulatory system for wildlife protection referred to in (b) of this subsection or of substantive rules on the species.
- (ii) The delisting of a threatened or endangered species by the Washington fish and wildlife commission.
- (b) The board shall examine current wildlife protection and department authority to protect wildlife and develop and recommend a regulatory system, including baseline rules for wildlife protection. To the extent possible, this system shall:
- (i) Use the best science and management advice available;
 - (ii) Use a landscape approach to wildlife protection;
- (iii) Be designed to avoid the potential for substantial impact to the environment;
- (iv) Protect known populations of threatened and endangered species of wildlife from negative effects of forest practices consistent with RCW 76.09.010; and
- (v) Consider and be consistent with recovery plans adopted by the department of fish and wildlife pursuant to RCW 77.12.020(6) or habitat conservation plans or 16 U.S.C. 1533(d) rule changes of the Endangered Species Act.
- (6) Regardless of any other provision in this section, forest practices applications shall not be classified as Class IV-Special based on critical wildlife habitat (state) (WAC 222-16-080(1)) or critical habitat (federal) (WAC 222-16-050)

- (1)(b)(ii)) for a species if the forest practices are consistent with one of the following proposed for protection of the species:
- (a) A habitat conservation plan and permit or an incidental take statement covering such species approved by the Secretary of the Interior or Commerce pursuant to 16 U.S.C. §1536 (b) or 1539 (a); an "unlisted species agreement" covering such species approved by the U.S. Fish and Wildlife Service or National Marine Fisheries Service; or a "no-take letter" or other cooperative or conservation agreement entered into with a federal or state fish and wildlife agency pursuant to its statutory authority for fish and wildlife protection that addresses the needs of the affected species and that is subject to review under the National Environmental Protection Act, 42 U.S.C. §4321 et seq., or the State Environmental Policy Act, chapter 43.21C RCW, as applicable;
- (b) A rule adopted by the U.S. Fish and Wildlife Service for the conservation of a particular threatened species pursuant to 16 U.S.C. 1533(d);
- (c) A special wildlife management plan (SWMP) developed by the landowner and approved by the department in consultation with the department of fish and wildlife;
- (d) A bald eagle management plan approved under WAC 232-12-292;
- (e) A landowner option plan (LOP) for northern spotted owls developed pursuant to WAC 222-16-100(1); or
- (f) A cooperative habitat enhancement agreement (CHEA) developed pursuant to WAC 222-16-105.

In those situations where one of the options above has been used, forest practices applications may still be classified as Class IV-Special based upon the presence of one or more of the factors listed in WAC 222-16-050(1), other than critical wildlife habitat (state) or critical habitat (federal) for the species covered by the existing plan.

(7) The department, in consultation with the department of fish and wildlife, shall review each SOSEA to determine whether the goals for that SOSEA are being met through approved plans, permits, statements, letters, or agreements referred to in subsection (6) of this section. Based on the consultation, the department shall recommend to the board the suspension, deletion, modification or reestablishment of the applicable SOSEA from the rules. The department shall conduct a review for a particular SOSEA upon approval of a landowner option plan, a petition from a landowner in the SOSEA, or under its own initiative.

(8) The department, in consultation with the department of fish and wildlife, shall report annually to the board on the status of the northern spotted owl to determine whether circumstances exist that substantially interfere with meeting the goals of the SOSEAs.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091, § 222-16-080, filed 12/3/97, effective 1/3/98; 97-15-105, § 222-16-080, filed 7/21/97, effective 8/21/97. Statutory Authority: Chapters 76.09 and 34.05 RCW. 96-12-038, § 222-16-080, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 93-12-001, § 222-16-080, filed 5/19/93, effective 6/19/93. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-16-080, filed 7/2/92, effective 8/2/92.]

WAC 222-16-085 Northern spotted owl habitats. (1) Suitable spotted owl habitat means forest stands which meet the description of old forest habitat, sub-mature habitat or young forest marginal habitat found in (a) and (b) of this subsection. Old forest habitat is the highest quality, followed in descending order by sub-mature habitat and young forest marginal habitat.

- (a) **Old forest habitat** means habitat that provides for all the characteristics needed by northern spotted owls for nesting, roosting, foraging, and dispersal, described as stands with:
- (i) A canopy closure of 60% or more and a layered, multispecies canopy where 50% or more of the canopy closure is provided by large overstory trees (typically, there should be at least 75 trees greater than 20 inches dbh per acre, or at least 35 trees 30 inches dbh or larger per acre); and
- (ii) Three or more snags or trees 20 inches dbh or larger and 16 feet or more in height per acre with various deformities such as large cavities, broken tops, dwarf mistletoe infections, and other indications of decadence; and
- (iii) More than two fallen trees 20 inches dbh or greater per acre and other woody debris on the ground.
- (b) Sub-mature habitat and young forest marginal habitat. Sub-mature habitat provides all of the characteristics needed by northern spotted owls for roosting, foraging, and dispersal. Young forest marginal habitat provides some of the characteristics needed by northern spotted owls for roosting, foraging, and dispersal. Sub-mature habitat and young forest marginal habitat stands can be characterized based on the forest community, canopy closure, tree density and height, vertical diversity, snags and cavity trees, dead and down wood, and shrubs or mistletoe infection. They are described in the following tables:

(i) Western Washington spotted owl sub-mature and young forest marginal habitat characteristics.

Habitat Type			
Characteristic	Sub-Mature	Young Forest Marginal	
Forest Community	conifer-dominated <i>or</i> conifer-hardwood (greater than or equal to 30% conifer)	conifer-dominated <i>or</i> conifer-hardwood (greater than or equal to 30% conifer)	
Canopy Closure	greater than or equal to 70% canopy closure	greater than or equal to 70% canopy closure	
	115-280 trees/acre (greater than or equal to 4 inches dbh) with	115-280 trees/acre (greater than or equal to 4 inches dbh) with	
Tree Density and Height	dominants/codominants greater than or equal to 85 feet high OR	dominants/codominants greater than or equal to 85 feet high OR	

	Habitat Type		
Characteristic	Sub-Mature	Young Forest Marginal	
		dominants/codominants greater than or equal to 85 feet high with	
	2 or more layers and	2 or more layers and	
	25 - 50% intermediate trees	25 - 50% intermediate trees	
Snags/Cavity Trees	greater than or equal to 3/acre (greater than or equal to 20 inches dbh and 16 feet in height)	greater than or equal to 2/acre (greater than or equal to 20 inches dbh and 16 feet in height) OR	
Dead, Down Wood	N/A	greater than or equal to 10% of the ground co ered with 4 inch diameter or larger wood, with	
Shrubs	N/A	25-60% shrub cover	

The values indicated for canopy closure and tree density may be replaced with a quadratic mean diameter of greater than 13 inches and a basal area of greater than 100.

(ii) Eastern Washington spotted owl sub-mature and young forest marginal habitat characteristics.

	Habitat Type		
Characteristic	Sub-Mature	Young Forest Marginal (closed canopy)	Young Forest Marginal (open canopy)
Forest Community	greater than or equal to 40% fir	greater than or equal to 40% fir	greater than or equal to 40% fir
Tree Density and Height	110-260 trees/acre (greater than or equal to 4 inches dbh) with	100 - 300 trees/acre (greater than or equal to 4 inches dbh)	100 - 300 trees/acre (greater than or equal to 4 inches dbh)
	dominants/codominants greater than or equal to 90 feet high OR	dominants/codominants equal to or greater than 70 feet high	dominants/codominants equal to or greater than 70 feet high
Vertical Diversity	dominants/codominants greater than or equal to 90 feet high with 2 or more layers and	2 or more layers	2 or more layers
	25 - 50% intermediate trees	25 - 50% intermediate trees	25 - 50% intermediate trees
Canopy Closure	greater than or equal to 70% canopy closure	greater than or equal to 70% canopy closure	greater than or equal to 50% canopy closure
Snags/Cavity Trees	greater than or equal to 3/acre (greater than or equal to 20 inches dbh 16 feet in height) OR	N/A	2/acre or more (greater than or equal to 20 inches dbh 16 feet in height)
Mistletoe	high or moderate infection	N/A	high or moderate infection
Dead, Down Wood	greater than or equal to 5% of the ground covered with 4 inch diameter or larger wood	N/A	N/A

The values indicated for canopy closure and tree density may be replaced with the following:

- (A) For sub-mature a quadratic mean diameter of greater than 13 inches and a relative density of greater than 44;
- (B) For young forest marginal a quadratic mean diameter of greater than 13 inches and a relative density of greater than 28.
- (2) **Spotted owl dispersal habitat** means habitat stands that provide the characteristics needed by northern spotted owls for dispersal. Such habitat provides protection from the weather and predation, roosting opportunities, and clear space below the forest canopy for flying. Timber stands that provide for spotted owl dispersal have the following characteristics:
- (a) For western Washington, timber stands 5 acres in size or larger with:
 - (i) 70% or more canopy cover; and
- (ii) 70% or more of the stand in conifer species greater than 6 inches dbh; and

- (iii) A minimum of 130 trees per acre with a dbh of at least 10 inches or a basal area of 100 square feet of 10 inch dbh or larger trees; and
 - (iv) A total tree density of 300 trees per acre or less; and
- (v) A minimum of 20 feet between the top of the understory vegetation and the bottom of the live canopy, with the lower boles relatively clear of dead limbs.
- (b) For eastern Washington, timber stands 5 acres in size or larger with:
 - (i) 50% or more canopy closure; and
- (ii) A minimum of 50 conifer trees per acre, with a dbh of 6 inches or more in even-aged stands or 4 inches or more

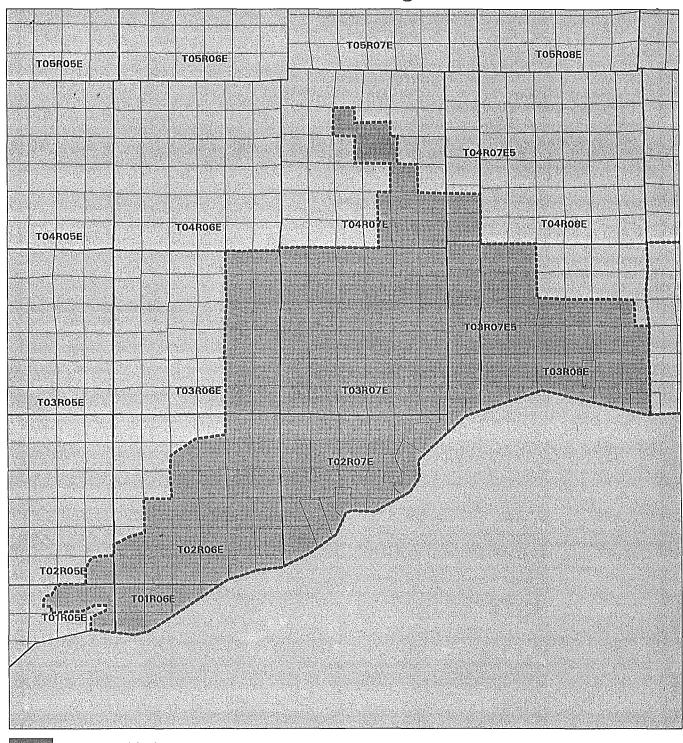
in uneven-aged stands, and an average tree height of 65 feet or more; and

- (iii) Total tree density of 200 trees per acre or less; and
- (iv) A minimum of 20 feet between the top of the understory vegetation and the bottom of the live canopy, with the lower boles relatively clear of dead limbs; or
- (v) Conifer stands with a quadratic mean diameter of 9 inches or more and a relative density of 33 or more or a canopy closure of 55% or more.
- (c) Suitable spotted owl habitat provides all of the required characteristics needed by spotted owls for dispersal.
- (d) Landowners may submit information to support an alternate definition of dispersal habitat for review and approval by the department in consultation with the department of fish and wildlife.

[Statutory Authority: Chapters 76.09 and 34.05 RCW. 96-12-038, § 222-16-085, filed 5/31/96, effective 7/1/96.]

WAC 222-16-086 Northern spotted owl special emphasis areas and goals. "Spotted owl special emphasis areas (SOSEA)" means the following geographic areas and the associated goals as mapped. Detailed maps of the SOSEAs indicating the boundaries and goals are available from the department at its regional offices.

(1) Columbia Gorge SOSEA

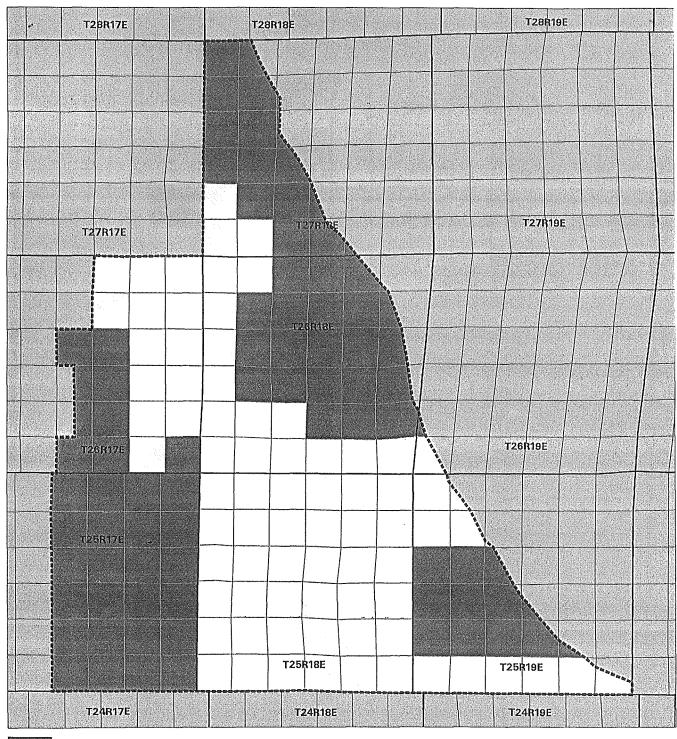


Demographic Support

__ Dispersal Support

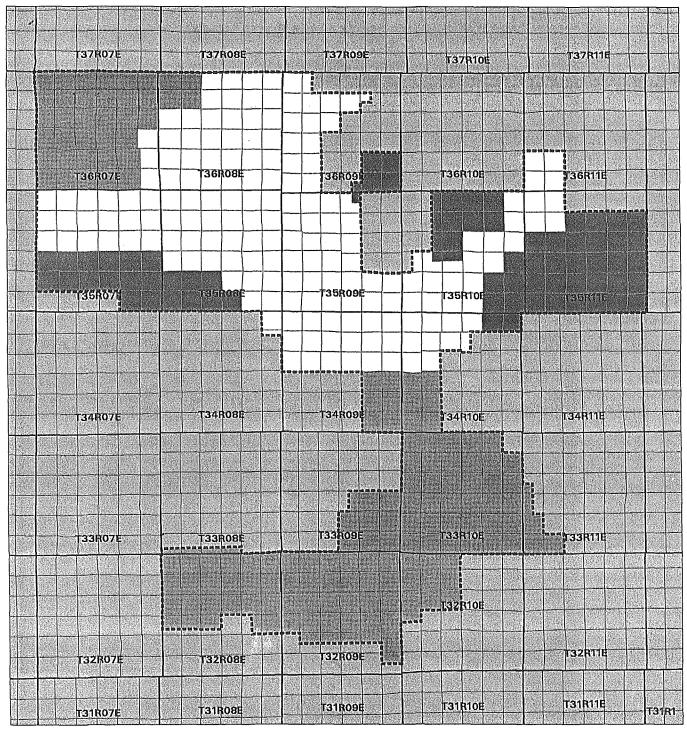
Combination of Dispersal Support and Demographic Support

(2) Entiat SOSEA



Demographic Support
Dispersal Support
Combination of Dispersal Support
and Demographic Support
SOSEA Boundary

(3) Finney Block SOSEA

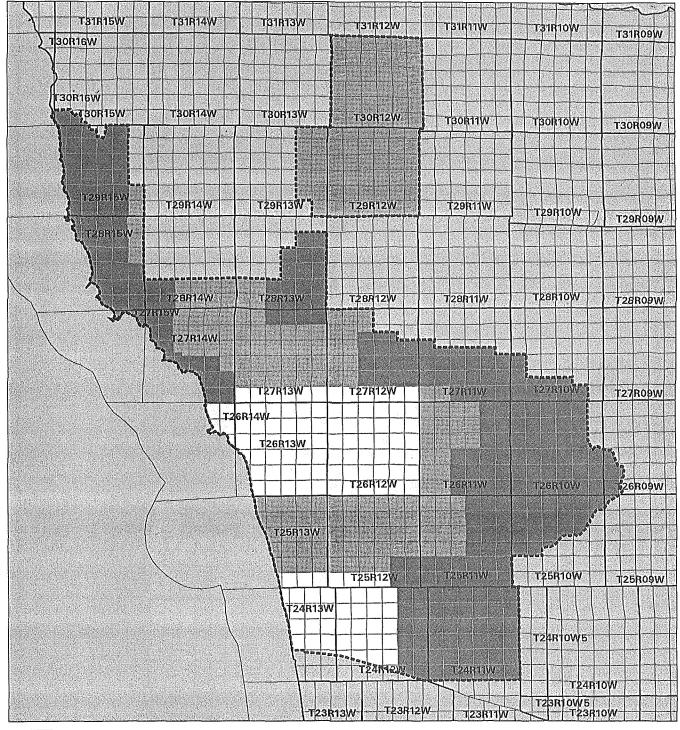


Demographic Support

____ Dispersal Support

Combination of Dispersal Support and Demographic Support

(4) Hoh-Clearwater/Coastal Link SOSEA

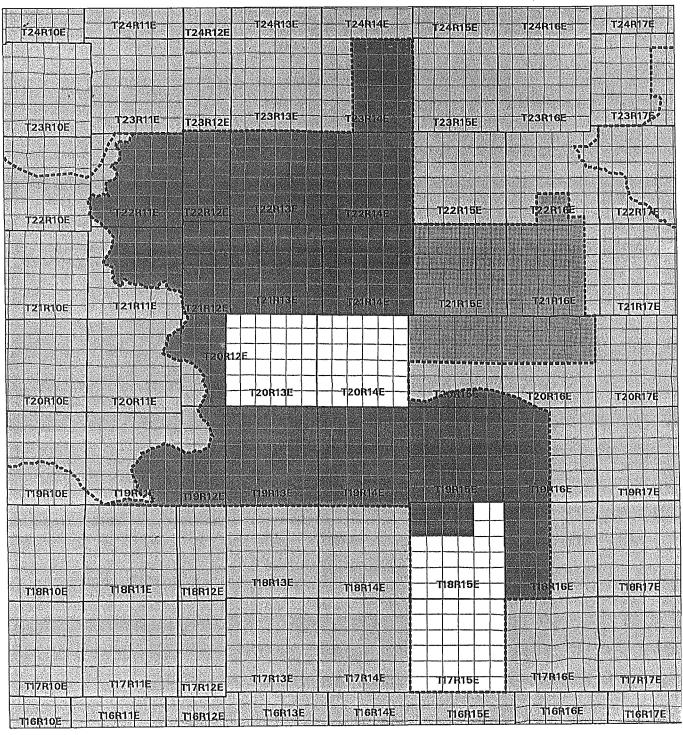


Demographic Support

Dispersal Support

Combination of Dispersal Support and Demographic Support

(5) I-90 East SOSEA

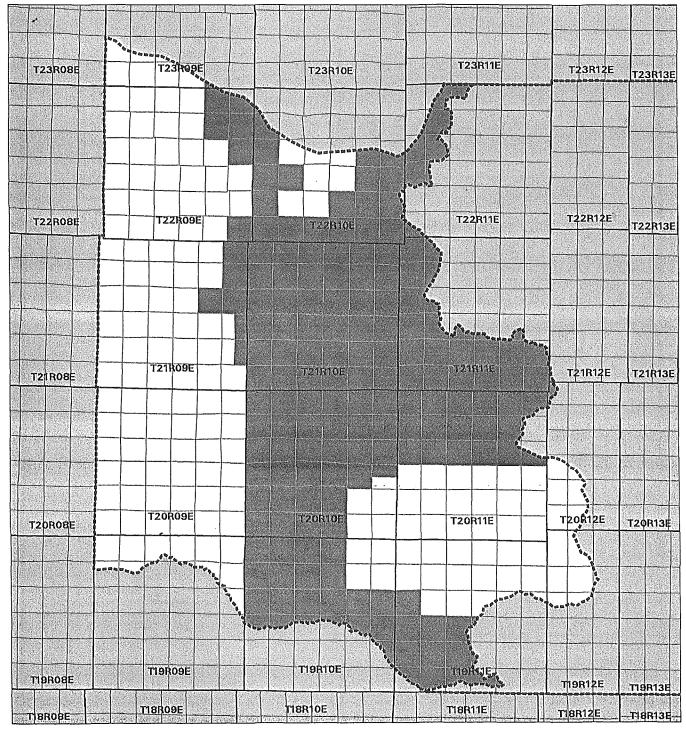


Demographic Support

____ Dispersal Support

Combination of Dispersal Support and Demographic Support

(6) I-90 West SOSEA

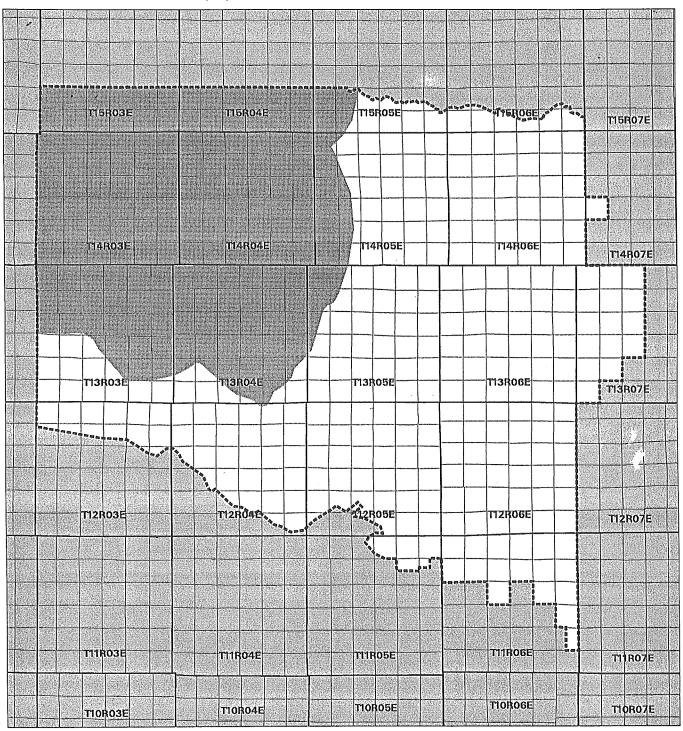


Demographic Support

Dispersal Support

Combination of Dispersal Support and Demographic Support

(7) Mineral Block/Link SOSEA



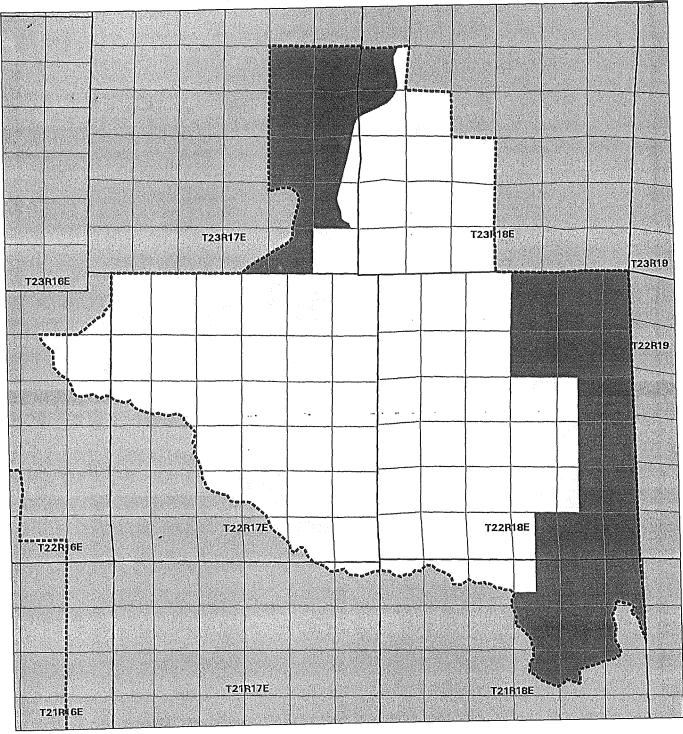
Demographic Support

Dispersal Support

Combination of Dispersal Support and Demographic Support

SOSEA Boundary

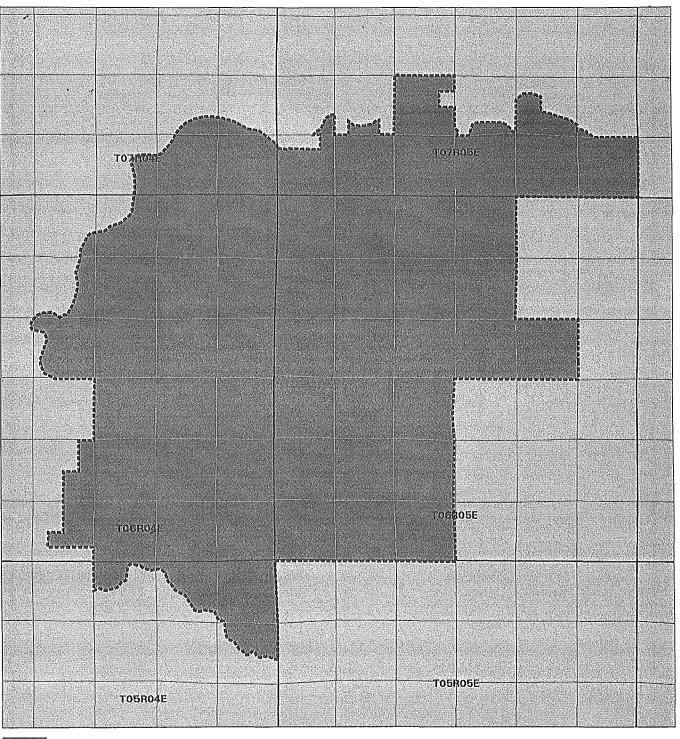
(8) North Blewett SOSEA



Demographic Support
Dispersal Support

Combination of Dispersal Support and Demographic Support

(9) Siouxon SOSEA

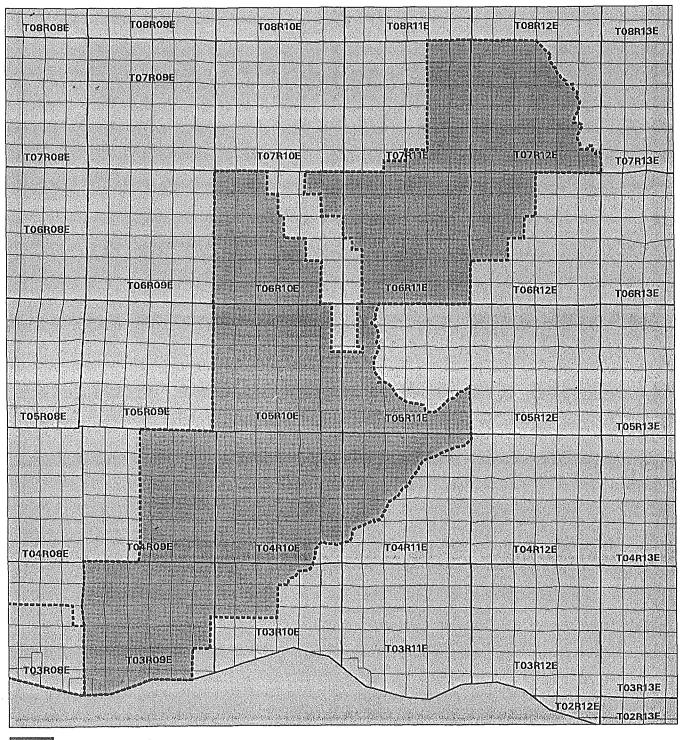


Demographic Support
Dispersal Support

Combination of Dispersal Support and Demographic Support

222-16-086

(10) White Salmon SOSEA



Demographic Support

Dispersal Support

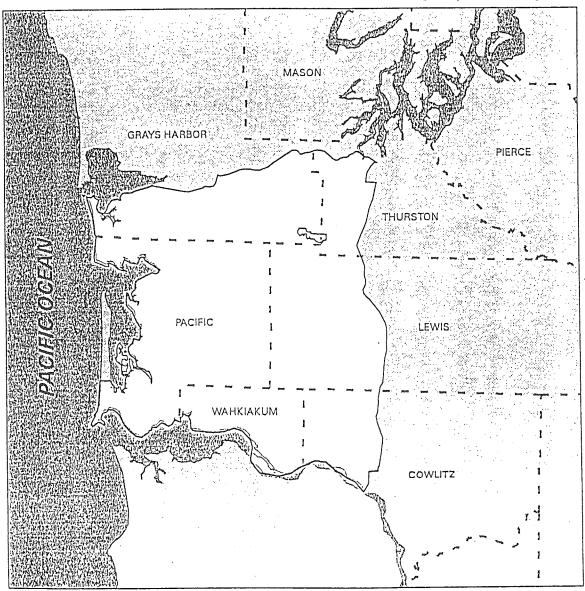
Combination of Dispersal Support and Demographic Support

SOSEA Boundary

[Statutory Authority: Chapter 76.09 and 34.05 RCW. 96-12-038, § 222-16-086, filed 5/31/96, effective 7/1/96.]

WAC 222-16-087 Marbled murrelet special landscape. Marbled murrelet special landscape means the following geographic area as mapped. A detailed map of the marbled murrelet special landscape indicating the boundaries is available from the department at its regional offices.

Southwest Washington Special Landscape



[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-15-105, § 222-16-087, filed 7/21/97, effective 8/21/97.]

WAC 222-16-100 Planning options for the northern spotted owl. (1) Landowner option plans for the northern spotted owl. Landowner option plans (LOPs) are intended to provide landowners with a mechanism, entered into voluntarily, to contribute to the protection of northern spotted owls by considering the needs of overall population maintenance or dispersal habitat across a defined geographic area. Forest practices applications that are in an area covered by an LOP, and that are consistent with the LOP, will not be classified as Class IV-Special on the basis of critical wildlife habitat (state) or critical habitat (federal) for the northern spotted owl. This does not preclude classification as Class IV-Special because of the presence of other factors listed in WAC 222-16-050(1).

- (a) Required elements of LOPs. The level of detail to be included in a LOP will depend on the area of ownership involved, the time period for which the plan will be in effect, and the complexity of the management strategy. Nevertheless, each plan shall contain the elements set forth in this subsection.
- (i) Goals and objectives. The specific goals and objectives for the landowner's contributions proposed under the LOP shall be developed by the landowner and approved by the department in consultation with the department of fish and wildlife based on the following:
- (A) Mitigation under the plan must be reasonable and capable of being accomplished;
- (B) To the maximum extent practicable, the plan must minimize and mitigate significant adverse impacts caused by, and identified in, the plan on individual northern spotted owl site centers or the ability of the SOSEA to meet SOSEA

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goals. Specific short (one to five-year) and long (greater than five-year) term goals and objectives for the LOP should be clearly stated, where applicable; and

(C) LOPs should be designed to achieve an appropriate contribution from nonfederal lands toward meeting SOSEA goals and are intended to be an efficient and effective alternative to site-by-site management planning. In Eastern Washington, LOPs must also consider the need to protect the forests from catastrophic loss from wildfire, insects, and diseases.

(ii) Other required elements:

- (A) A description of the planning area. The LOP planning area shall include a sufficient amount of the landowner's forest land within the SOSEA to meet the goals and objectives of the plan.
- (B) A description of the physical features in the planning area (e.g., geology, topography, etc.).
- (C) The current habitat status. Suitable spotted owl habitat should be categorized and mapped as old forest, submature, young forest marginal, or dispersal.
- (D) The current species status. All status 1, 2, and 3 northern spotted owl site centers and the associated median home range circles that overlap any of the landowner's ownership within the LOP boundary must be mapped.
- (E) Management proposals and relevant operations plans.
 - (F) Projected suitable habitat development.
 - (G) A plan for training.
 - (H) A monitoring program.
 - (I) Reporting standards.
- (J) The conditions under which the LOP may be modified.
- (K) The term of the LOP and conditions for termination. The term of the LOP shall be sufficient to meet its goals and objectives. The conditions of the LOP run with the land unless the LOP specifies alternative means to achieve the LOP goals and objectives upon mid-term sale or transfer. In addition to any other termination provisions in the LOP, plans may be terminated by mutual agreement of the landowner and the department.
- (b) Approval of LOPs. Upon receipt of a landowner option plan, the department shall circulate the plan to the department of fish and wildlife, affected Indian tribes, local government entities, other forest landowners in the SOSEA, and the public for a thirty-day review and comment period. The department may extend this review period for up to thirty additional days. Within ninety days of receipt of the plan, the department shall review the comments and approve or disapprove the plan or submit the plan to the landowner to revise as appropriate. The department, after consultation with the department of fish and wildlife, shall approve the plan if:
- (i) The plan contains all of the elements required under this section;
- (ii) The plan is expected to be effective in meeting its goals and objectives;
- (iii) The plan will not have a probable significant adverse impact on the ability of the SOSEA to meet its goals; and
- (iv) The plan will not appreciably reduce the likelihood of the survival and recovery of the northern spotted owl in the wild.

In making its determination under this subsection, the department shall consider the direct, indirect, and cumulative effects of the plan; both the short-term and long-term effects of the plan; and whether local, state, or federal land management, regulatory, or nonregulatory requirements will mitigate identified significant adverse impacts. If the department does not approve the plan, or approves it over the objections of the department of fish and wildlife, the department shall set forth in writing a concise explanation of the reasons for its action.

- (c) **Enforcement of LOPs.** The department shall review all applications and notifications from the landowner, proposed within the plan area, for consistency with the plan. Any applications or notifications found to be inconsistent with the plan shall be returned to the landowner for modification. After landowner review, applications and notifications which are not consistent with the plan shall be classified as Class IV-Special.
 - (2) See WAC 222-16-105 for CHEAs.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-15-105, § 222-16-100, filed 7/21/97, effective 8/21/97. Statutory Authority: Chapters 76.09 and 34.05 RCW. 96-12-038, § 222-16-100, filed 5/31/96, effective 7/1/96.]

WAC 222-16-105 Cooperative habitat enhancement agreements. (1) Purpose. A cooperative habitat enhancement agreement (CHEA) is intended to remove disincentives for landowners who create, enhance, or maintain habitat for the northern spotted owl or marbled murrelet by providing them with protection against future spotted owl or marbled murrelet regulation caused by their enhancement activities. A CHEA is an agreement between the department and a landowner, developed in cooperation with the department of fish and wildlife, for the purpose of creating, enhancing, or maintaining northern spotted owl habitat and/or marbled murrelet habitat. The agreement will apply only to forest land identified by the landowner:

- (a) For northern spotted owls, outside of the median home range circles of northern spotted owl site centers in existence at the time of implementation.
- (b) For marbled murrelets, any current unoccupied or potential future habitat.
- (2) Authority. Outside of the median home range circles of northern spotted owls or an occupied marbled murrelet site, the department, in consultation with the department of fish and wildlife, may enter into agreements with nonfederal landowners to create, enhance, or maintain habitat that the northern spotted owl and/or the marbled murrelet can be expected to utilize. During the term of these agreements, forest practices covered by the agreements shall not be classified as Class IV-Special on the basis of critical wildlife habitat (state) or critical habitat (federal) for the northern spotted owl or the marbled murrelet. This does not preclude classification as Class IV-Special because of the presence of other factors listed in WAC 222-16-050(1).

(3) Baseline.

(a) Each agreement shall identify a baseline level of habitat, and the department shall not permit forest practices that reduce the habitat below the baseline during the term of the agreement.

- (b) For northern spotted owls, the baseline may range from zero habitat to the overall levels of suitable spotted owl habitat and dispersal habitat that existed across the land in question at the time the agreement is entered into.
- (c) For marbled murrelets, the baseline may range from zero habitat to the overall levels of suitable marbled murrelet habitat that existed across the land in question at the time the agreement is entered into.
- (d) The department shall determine, working with the landowner and in consultation with the department of fish and wildlife, the appropriate baseline, taking into consideration:
- (i) The size of the landowner's ownership and the ability of the landowner to maintain habitat conditions across the landscape in question over time;
- (ii) The overall benefits of the agreement to the northern spotted owl or marbled murrelet including both the proposed measures to create, enhance, or maintain habitat and the proposed baseline levels; and
 - (iii) The term of the agreement.
 - (4) Form and content of CHEAs.
- (a) The department shall, in consultation with the department of fish and wildlife, have the authority to define the form and content of CHEAs. The form and content may vary among agreements, but each must provide sufficient information for the department, the public, and other reviewers to understand and evaluate the agreement against the standards established under this section.
- (b) For northern spotted owls, in addition to the elements required by the department, each agreement shall include a plan to avoid harvesting, road construction, or the aerial application of pesticides, between March 1 and August 31, on the seventy acres of highest quality suitable spotted owl habitat surrounding any known northern spotted owl site centers on lands covered by the agreement.
- (5) Approval of a CHEA. Upon receipt of a CHEA, the department shall circulate the agreement to the department of fish and wildlife, affected Indian tribes, local government entities, other forest landowners in the SOSEA (if the CHEA is in a SOSEA), and the public for review and comment. Within sixty days of receipt of the agreement, the department shall review the comments and approve or disapprove the agreement or submit the agreement to the landowner to revise as appropriate. The department, after consultation with the department of fish and wildlife, may approve the agreement if the agreement will create, enhance, or maintain habitat conditions for:
- (a) The northern spotted owl in a manner that provides a measurable contribution toward meeting the goals of the SOSEA or a measurable benefit to northern spotted owls outside SOSEAs.
- (b) The marbled murrelet in a manner that provides a measurable benefit to the species.
- (6) Enforcement of CHEAs. The department shall review all applications and notifications from the landowner, proposed within the agreement area, for consistency with the agreement. Any applications or notifications found to be inconsistent with the agreement shall be returned to the landowner for modification. After landowner review, applications and notifications which are not consistent with the

agreement shall be classified based on the rules in effect at the time of application and without any of the benefits of the agreement.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-15-105, § 222-16-105, filed 7/21/97, effective 8/21/97.]

Chapter 222-20 WAC

APPLICATION AND NOTIFICATION PROCEDURES

222-20-010	Applications and notifications—Policy.
222-20-020	Application time limits.
222-20-030	Delivery of notifications and applications—Receipts—
	File numbers.
222-20-040	Approval conditions.
222-20-050	Conversion to nonforest use.
222-20-060	Deviation from prior application or notification.
222-20-070	Emergency forest practices.
222-20-080	Application and notification expiration.
222-20-090	Options for filing applications.
222-20-100	Notice to parks and OAHP.
222-20-110	Notice of forest practices to cities and towns.
222-20-120	Notice of forest practices to affected Indian tribes.
222-20-130	Notice and administration in CRGNSA special manage-
	ment area.

WAC 222-20-010 Applications and notifications—

- **Policy.** (1) **No Class II, III or IV forest practices** shall be commenced or continued unless the department has received a notification for Class II forest practices, or approved an application for Class III or IV forest practices pursuant to the act. Where the time limit for the department to act on the application has expired, and none of the conditions in *WAC* 222-20-020(1) exist, the operation may commence. (NOTE: OTHER LAWS AND REGULATIONS AND/OR PERMIT REQUIREMENTS MAY APPLY. SEE CHAPTER 222-50 WAC.)
- (2) **The department shall** prescribe the form and contents of the notification and application, which shall specify what information is needed for a notification, and the information required for the department to approve or disapprove the application.
- (3) Applications and notifications for operations not converting to another use shall be signed by the landowner, the timber owner and the operator, or the operator and accompanied by a consent form signed by the timber owner and the landowner. A consent form may be another document if it is signed by the landowner(s) and it contains a statement acknowledging that he/she is familiar with the Forest Practices Act, including the provisions dealing with conversion to another use (RCW 76.09.060(3)). Where the application is not signed by the landowner, the department shall, provided all the other requirements contained in chapter 222-20 WAC are met, approve the application without the signature of the landowner if:
- (a) The operator or timber owner provides legal evidence of timber rights, ownership, or other legal rights;
- (b) The timber owner or operator posts a bond, in an amount determined by and a form acceptable to the department, securing compliance with the requirements of the forest practices regulations; and
- (c) The operator or timber owner provides evidence of reasonably advance notification to the landowner of the proposed forest practice and that the landowner has been requested to sign the application, a copy of which has been

made available to the landowner: *Provided*, That in lieu of such evidence the applicant may submit a sworn statement indicating inability to locate the landowner after a reasonable good faith attempt to locate and notify the landowner of the proposed forest practice.

- (4) Where an application for a conversion is not signed by the landowner or accompanied by a consent form, as outlined in subsection (3) of this section, the department shall not approve the application. Applications and notifications for the development or maintenance of utility rights of way shall not be considered to be conversions.
- (5) **Transfer of the** approved application or notification to a new landowner, timber owner or operator requires written notice by the original landowner or applicant to the department and should include the original application or notification number. This written notice shall be in a form acceptable to the department and shall contain an affirmation signed by the new landowner, timber owner, or operator, as applicable, that he/she agrees to be bound by all conditions on the approved application or notification. In the case of a transfer of an application previously approved without the landowner's signature the new timber owner or operator must submit a bond securing compliance with the requirements of the forest practices regulations as determined necessary by the department. If an application or notification indicates that the landowner or timber owner is also the operator, or an operator signed the application, no notice need be given regarding any change in subcontractors or similar independent contractors working under the supervision of the operator of record.
- (6) **Applications and notifications** must be delivered to the department at the appropriate region office. Delivery should be in person or by registered or certified mail.
- (7) Applications and notifications shall be considered received on the date and time shown on any registered or certified mail receipt, or the written receipt given at the time of personal delivery, or at the time of receipt by general mail delivery. Applications or notifications that are not complete, or are inaccurate will not be considered officially received until the applicant furnishes the necessary information to complete the application. A review statement from the U.S. Forest Service that evaluates compliance of the forest practices with the CRGNSA special management area guidelines is necessary information for an application or notification within the CRGNSA special management area. The review statement requirement shall be waived if the applicant can demonstrate the U.S. Forest Service received a complete plan application and failed to act within 45 days. An environmental checklist (WAC 197-11-315) is necessary information for all Class IV applications. A local government entity clearing and/or grading permit is necessary information for all Class IV applications on lands that will be converted to a use other than commercial timber production or on lands which have been platted after January 1, 1960, if the local government entity has jurisdiction and has an ordinance requiring such permit. If a notification or application is delivered in person to the department by the operator or the operator's authorized agent, the department shall immediately provide a dated receipt. In all other cases, the department shall immediately mail a dated receipt to the applicant.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 98-07-047, § 222-20-010, filed 3/13/98, effective 5/1/98; 93-12-001, § 222-20-010, filed 5/19/93, effective 6/19/93. Statutory Authority: RCW 76.09.040, 76.09.050 and 34.05.350. 91-23-052, § 222-20-010, filed 11/15/91, effective 12/16/91. Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-20-010, filed 11/16/87, effective 11/1/88; 82-18-053 (Resolution No. 82-2), § 222-20-010, filed 8/31/82. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-20-010, filed 8/3/82, effective 10/1/82; Order 263, § 222-20-010, filed 6/16/76.]

WAC 222-20-020 Application time limits. (1) A properly completed application shall be approved, conditioned or disapproved within 30 calendar days for Class III and Class IV forest practices, except:

- (a) To the extent the department is prohibited from approving the application by the act.
- (b) For "Class IV" applications when the department or the lead agency has determined that a detailed environmental statement must be made, the application must be approved, conditioned or disapproved within 60 days, unless the commissioner of public lands promulgates a formal order specifying a later date for completion of the detailed environmental statement and final action on the application. At least 10 days before promulgation of such an order extending the time, the applicant shall be given written notice that the department is requesting such extension; giving the reasons the process cannot be completed within such period; and stating that the applicant may comment in writing to the commissioner of public lands or obtain an informal conference with the department regarding the proposed extension.
- (c) When they involve lands platted after January 1, 1960, or lands to be converted, the applicable time limit shall be no less than 14 business days from transmittal to the county unless the county has waived its right to object or has consented to approval of the application.
- (2) Unless the county has waived its rights under the act or consents to approval, the department shall not approve an application involving lands platted after January 1, 1960, in the process of being platted or proposed to be converted to another use until at least 14 business days from the date of transmittal to the county.
- (3) Where a notification is submitted for operations which the department determines involve Class III or IV forest practices, the department shall issue a stop work order or take other appropriate action. If the operations were otherwise in compliance with the act and forest practices regulations, no penalty should be imposed for those operations which occurred prior to the enforcement action: *Provided*, That no damage to a public resource resulted from such operations, and the operations commenced more than 5 days from receipt by the department of the notification.
- (4) **If the department** fails to approve or disapprove an application or any portion thereof within the applicable time limit, the application shall be deemed approved and the operation may commence: *Provided*, That this provision shall not apply where:
- (a) The county objects and the application involves lands platted after January 1, 1960, or lands to be converted where the county's right of objection is 14 business days which may be longer than the approval time limit.
- (b) The department is prohibited from approving the application by the act.

- (c) Compliance with the State Environmental Policy Act requires additional time.
- (5) If seasonal field conditions prevent the department from being able to properly evaluate the application, the department may disapprove the application until field conditions allow for an on-site review.

[Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-20-020, filed 11/16/87, effective 1/1/88. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-20-020, filed 8/3/82, effective 10/1/82; Order 263, § 222-20-020, filed 6/16/76.]

WAC 222-20-030 Delivery of notifications and applications—Receipts—File numbers. (1) Notifications and applications should be delivered in person or by registered or certified mail to the department at the appropriate region office. Notifications and applications actually received at the appropriate region office by other means may be accepted or returned to the applicant.

- (2) **Upon delivery of** a notification or application to the appropriate region office, a written receipt for such notification or application shall be issued by the department as follows:
- (a) If delivery is in person, a dated receipt shall be issued immediately to the applicant.
- (b) If delivery is by registered or certified mail, a dated receipt shall be mailed immediately to the applicant.
- (c) If delivery is by other means, a receipt dated on the day the department begins processing the application shall be mailed to the applicant.
- (3) Each receipt will indicate the file number assigned to the notification or application.

[Statutory Authority: RCW 76.09.040. 88-19-112 (Order 551, Resolution No. 88-1), § 222-20-030, filed 9/21/88, effective 11/1/88; Order 263, § 222-20-030, filed 6/16/76.]

WAC 222-20-040 Approval conditions. (1) Whenever an approved application authorizes a forest practice which, because of soil condition, proximity to a water course or other unusual factor, has a potential for causing material damage to a public resource, as determined by the department, the applicant shall, when requested on the approved application, notify the department 2 business days before the commencement of actual operations.

- (2) All approvals are subject to any conditions stipulated on the approved application and to any subsequent additional requirements set forth in a stop work order or a notice to comply.
 - (3) Local government entity conditions.
- (a) RCW 76.09.240(1) allows a local government entity to exercise limited land use planning or zoning authority on certain types of forest practices. This subsection is designed to ensure that local government entities exercise this authority consistent with chapter 76.09 RCW and the rules in Title 222 WAC. The system provided for in this subsection is optional.
- (b) This subsection only applies to Class IV general applications on lands that will be converted to a use other than commercial timber production or to Class IV general applications on lands which have been platted after January 1, 1960.

- (c) The department shall transmit the applications to the appropriate local government entity within two business days from the date the department receives the application.
- (d) The department shall condition the application consistent with the request of the local government entity if:
- (i) The local government entity has adopted a clearing and/or grading ordinance that addresses the items listed in (e) of this subsection and requires a permit;
- (ii) The local government entity has issued a permit under the ordinance in (i) that contains the requested conditions; and
- (iii) The local government entity has entered into an interagency agreement with the department consistent with WAC 222-50-030 addressing enforcement of forest practices.
- (e) The local government entity conditions may only cover:
- (i) The location and character of open space and/or vegetative buffers;
 - (ii) The location and design of roads;
- (iii) The retention of trees for bank stabilization, erosion prevention, and/or storm water management; or
- (iv) The protection of critical areas designated pursuant to chapter 36.70A RCW.
- (f) Local government entity conditions shall be filed with the department within twenty-nine days of the filing of the application with the department or within fourteen business days of the transmittal of the application to the local government entity or one day before the department acts on the application, whichever is later.
- (g) The department shall incorporate local government entity conditions consistent with this subsection as conditions of the forest practices approval.
- (h) Any exercise of local government entity authority consistent with this subsection shall be considered consistent with the forest practices rules in this chapter.
 - (4) Lead agency mitigation measures.
- (a) This subsection is designed to specify procedures for a mitigated DNS process that are consistent with chapters 76.09 and 43.21C RCW and the rules in Title 222 WAC and chapter 197-11 WAC.
- (b) This subsection applies to all Class IV applications in which the department is not the lead agency under SEPA. (See WAC 197-11-758.)
- (c) The department shall transmit the application to the lead agency within two business days from the date the department receives the application.
- (d) The lead agency may specify mitigation measures pursuant to WAC 197-11-350.
- (e) The lead agency threshold determination and any mitigation measures must be filed with the department within the later of (i) twenty-nine days of the receipt of the application by the department, (ii) fourteen business days of the transmittal of the application to the lead agency if the lead agency is a local government entity; or (iii) one day before the department acts on the application.
- (f) Unless the applicant clarifies or changes the application to include mitigation measures specified by the lead agency, the department must deny the application or require an EIS. (See WAC 197-11-738.)

- (g) If the department does not receive a threshold determination from the lead agency by the time it must act on the application, the department shall deny the application.
 - (5) CRGNSA special management area.
- (a) **Policy.** The states of Oregon and Washington have entered into a Compact preauthorized by Congress to implement the CRGNSA Act, 16 U.S.C. §§544, et seq. chapter 43.97 RCW, 16 U.S.C. §544c. The purposes of the CRGNSA Act are:
- (i) To establish a national scenic area to protect and provide for the enhancement of the scenic, cultural, recreational, and natural resources of the Columbia River Gorge; and
- (ii) To protect and support the economy of the Columbia River Gorge area by encouraging growth to occur in existing urban areas and by allowing future economic development in a manner that is consistent with paragraph (1). 16 U.S.C. §544a.

The forest practices rules addressing forest practices in the CRGNSA special management area recognize the intent of Congress and the states expressed in the CRGNSA Act and Compact and the intent of the Washington state legislature in the Forest Practices Act. These rules are designed to recognize the public interest in sound natural resource protection provided by the Act and the Compact, including the protection to public resources, recreation, and scenic beauty. These rules are designed to achieve a comprehensive system of laws and regulations for forest practices in the CRGNSA special management area which avoids unnecessary duplication, provides for interagency input and intergovernmental and tribal coordination and cooperation, considers reasonable land use planning goals contained in the CRGNSA management plan, and fosters cooperation among public resources managers, forest landowners, tribes and the citizens.

- (b) The CRGNSA special management area guidelines shall apply to all forest practices within the CRGNSA special management area. Other forest practices rules also apply to these forest practices. To the extent these other rules are inconsistent with the guidelines, the more restrictive requirement controls. To the extent there is an incompatibility between the guidelines and another rule, the guidelines control. Copies of the guidelines can be obtained from the department Southeast and Southwest regional offices and Olympia office, as well as from the Columbia River Gorge commission and the U.S. Forest Service.
- (c) The department shall review and consider the U.S. Forest Service review statement and shall consult with the U.S. Forest Service and the Columbia River Gorge commission prior to making any determination on an application or notification within the CRGNSA special management area.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 98-07-047, § 222-20-040, filed 3/13/98, effective 5/1/98. Statutory Authority: RCW 76.09.040, 76.09.050 and 34.05.350. 91-23-052, § 222-20-040, filed 11/15/91, effective 12/16/91. Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-20-040, filed 11/16/87, effective 1/1/88; Order 263, § 222-20-040, filed 6/16/76.]

WAC 222-20-050 Conversion to nonforest use. (1) If an application to harvest signed by the landowner indicates that within 3 years after completion, the forest land will be converted to a specified active use which is incompatible with timber growing, the reforestation requirements of these regulations shall not apply and the information relating to reforestation on the application form need not be supplied. However, if such specified active use is not initiated within 3 years after such harvest is completed, the reforestation requirements (See chapter 222-34 WAC) shall apply and such reforestation shall be completed within 1 additional year.

- (2) For Class II, III, and IV special forest practices, if a landowner wishes to maintain the option for conversion to a use other than commercial timber operation the landowner may request the appropriate local government entity to approve a conversion option harvest plan. This plan, if approved by the local government entity and followed by the landowner, shall release the landowner from the six-year moratorium on future development, but does not create any other rights. The conversion option harvest plan shall be attached to the application or notification as a condition. Violation of the conversion option harvest plan will result in the reinstatement of the local government entity's right to the sixyear moratorium. Reforestation requirements will not be waived in the conversion option harvest plan. Reforestation regulations shall apply at the completion of the harvest operation as required in chapter 222-34 WAC. Nothing herein shall preclude the local government entity from charging a fee to approve such a plan. (See RCW 76.09.060 (3)(b)(i).)
- (3) If the application does not state that any land covered by the application will be or is intended to be converted to a specified active use incompatible with commercial timber operations and except as provided in subsection (2) of this section, the local government entity may, for six years after the date of the application, refuse to accept, process, or approve any or all applications for permits or approvals, including building permits and subdivision approvals, relating to nonforestry uses of the land subject to the application. (See RCW 76.09.060 (3)(b)(i).)

[Statutory Authority: RCW 76.09.040, 76.09.050 and 34.05.350. 91-23-052, § 222-20-050, filed 11/15/91, effective 12/16/91; Order 263, § 222-20-050, filed 6/16/76.]

WAC 222-20-060 Deviation from prior application or notification. Substantial deviation from a notification or an approved application requires a revised notification or application. Other deviations may be authorized by a supplemental directive, notice to comply or stop work order. The department shall notify the departments of fish and wildlife, and ecology, and affected Indian tribes and the appropriate county of any supplemental directive, notice to comply or stop work order involving a deviation from a prior notification or approved application, except where such notice has been waived.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091, § 222-20-060, filed 12/3/97, effective 1/3/98. Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-20-060, filed 11/16/87, effective 1/1/88; Order 263, § 222-20-060, filed 6/16/76.]

WAC 222-20-070 Emergency forest practices. No prior notification or application shall be required for emergency forest practices necessitated by and commenced during or immediately after fire, flood, windstorm, earthquake, structural failure or other catastrophic event. Within 48 hours after commencement of such practice, the operator shall sub-

mit an application or notification to the department with an explanation why emergency action was necessary. Such emergency forest practices are subject to these regulations: *Provided, however,* That the operator may take any reasonable action to minimize damage to forest lands, timber or public resources from the direct or indirect effects of the catastrophic event and: *Provided further,* The operator shall comply with any requirements of a notice to comply or stop work order as if conducted pursuant to an approved application.

[Order 263, § 222-20-070, filed 6/16/76.]

WAC 222-20-080 Application and notification expiration. The approval given by the department to an application to conduct a forest practice shall be effective for a term of two years from the date of approval. A notification is also effective for a term of two years from the date of receipt.

[Statutory Authority: RCW 76.09.060, 76.09.040 and chapter 34.05 RCW. 92-23-056, § 222-20-080, filed 11/17/92, effective 12/18/92; Order 263, § 222-20-080, filed 6/16/76.]

WAC 222-20-090 Options for filing applications.

Applicants may schedule an early review of a proposed application with the department prior to official filing, or submit an application with a delayed effective date. Such early review or submission will allow the department to review multiple applications and bring other forest practices concerns to the attention of the applicant so that such concerns can be addressed prior to official filing and processing of an application. When submitting an application with a delayed effective date, the applicant shall indicate the date when approval is desired.

[Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-20-090, filed 11/16/87, effective 1/1/88; Order 263, § 222-20-090, filed 6/16/76.]

WAC 222-20-100 Notice to parks and OAHP. (1) Notice to parks. The department shall send to the affected agency, within 2 business days of receipt, a copy of any notification or application for forest practices within 500 feet of the boundary of any park entity registered according to subsection (2) of this section.

- (2) Parks register. The department shall establish and update every 5 years a parks register listing all publicly owned parks where the affected owner has filed a written request with the department for inclusion on such register. The department shall notify owners of all public parks inventoried on the state comprehensive outdoor recreation plan (SCORP) of the opportunity to register.
- (3) **DNR to provide information to OAHP.** The department shall provide the office of archaeology and historic preservation (OAHP) with copies of all applications and notifications for forest practices to be conducted on lands known to contain historic or archaeological resources as identified by OAHP.

[Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-20-100, filed 11/16/87, effective 1/1/88. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-20-100, filed 8/3/82, effective 10/1/82.]

WAC 222-20-110 Notice of forest practices to cities and towns. The department shall establish and update every 5 years a register listing all incorporated cities and towns which have filed a written request for inclusion on such register. The department shall provide to those listed on the register, copies of all applications and notifications for forest practices on lands within the legal boundaries of the city or town.

[Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-20-110, filed 8/3/82, effective 10/1/82.]

WAC 222-20-120 Notice of forest practices to affected Indian tribes. (1) The department shall notify affected Indian tribes of all applications of concern to such tribes, including those involving cultural resources, identified by the tribes.

- (2) Where an application involves cultural resources the landowner shall meet with the affected tribe(s) with the objective of agreeing on a plan for protecting the archaeological or cultural value. The department may condition the application in accordance with the plan.
- (3) Affected Indian tribes shall determine whether plans for protection of cultural resources will be forwarded to the office of archaeological and historic preservation (OAHP).

[Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-20-120, filed 11/16/87, effective 1/1/88.]

WAC 222-20-130 Notice and administration in CRGNSA special management area. The department shall administer the permitting process for all forest practices on forest land in the CRGNSA special management area. For all applications and notifications within the CRGNSA special management area, the department shall send copies of a satisfactorily completed application or notification, including the U.S. Forest Service review statement, to the county in which the forest practices are to be commenced, the Columbia River Gorge commission, the U.S. Forest Service, the Yakama Indian Nation, and any interested parties that have requested to receive copies.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 98-07-047, § 222-20-130, filed 3/13/98, effective 5/1/98.]

Chapter 222-22 WAC WATERSHED ANALYSIS

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222-22-010	Policy.
222-22-020	Watershed administrative units.
222-22-030	Qualification of watershed resource analysts, special- ists, and field managers.
222-22-040	Watershed prioritization.
222-22-050	Level 1 watershed resource assessment.
222-22-060	Level 2 watershed resource assessment.
222-22-070	Prescription recommendation.
222-22-080	Approval of watershed analysis.
222-22-090	Use and review of watershed analysis.
222-22-100	Application review prior to watershed analysis.

WAC

Reviser's note: For an explanation of the rules marked with an asterisk (*), see WAC 222-12-010.

WAC 222-22-010 Policy. *(1) Public resources may be adversely affected by the interaction of two or more forest practices. The purpose of this rule is to address these cumulative effects of forest practices on the public resources of fish, water, and capital improvements of the state or its political subdivisions. The long-term objective of this rule is to protect and restore these public resources and the productive capacity of fish habitat adversely affected by forest practices while maintaining a viable forest products industry. The board intends that this be accomplished through prescriptions designed to protect and allow the recovery of fish, water, and capital improvements of the state or its political subdivisions, through enforcement against noncompliance of the forest practice rules in this Title 222 WAC, and through voluntary mitigation measures. This system also allows for monitoring, subsequent watershed analysis, and adaptive management.

- *(2) Adaptive management in a watershed analysis process requires advances in technology and cooperation among resource managers. The board finds that it is appropriate to promulgate rules to address certain cumulative effects by means of the watershed analysis system, while recognizing the pioneering nature of this system and the need to monitor its success in predicting and preventing adverse change to fish, water, and capital improvements of the state and its political subdivisions.
- *(3) Many factors other than forest practices can have a significant effect on the condition of fish, water, and capital improvements of the state or its political subdivisions. Nonforest practice contributions to cumulative effects should be addressed by the appropriate jurisdictional authorities. When a watershed analysis identifies a potential adverse effect on fish, water, and capital improvements of the state or its political subdivisions from activities that are not regulated under chapter 76.09 RCW, the department should notify any governmental agency or Indian tribe having jurisdiction over those activities.
- *(4) The rules in this chapter set forth a system for identifying the probability of change and the likelihood of this change adversely affecting specific characteristics of fish, water, and capital improvements of the state or its political subdivisions, and for using forest management prescriptions to avoid or minimize significant adverse effects from forest practices. The rules in this chapter are in addition to, and do not take the place of, the other forest practices rules in this Title 222 WAC.
- *(5) These rules are intended to be applied and should be construed in such a manner as to minimize the delay associated with the review of individual forest practice applications and notifications by increasing the predictability of the process and the appropriate management response.

[Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, § 222-22-010, filed 12/20/93, effective 1/1/94. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-22-010, filed 7/2/92, effective 8/2/92.]

WAC 222-22-020 Watershed administrative units.

*(1) For purposes of this chapter, the state is divided into areas known as watershed administrative units (WAUs). The department shall, in cooperation with the departments of ecology, fish and wildlife, federally recognized Indian tribes, local government entities, forest land owners, and the public,

define WAUs throughout the state. The department shall identify WAUs on a map.

- *(2) WAUs should generally be between 10,000 to 50,000 acres in size and should be discrete hydrologic units. The board recognizes, however, that identified watershed processes and potential effects on resource characteristics differ, and require different spatial scales of analysis, and the department's determination of the WAUs should recognize these differences. The board further recognizes that mixed land uses will affect the ability of a watershed analysis to predict probabilities and identify causation as required under this chapter, and the department's conduct and approval of a watershed analysis under this chapter shall take this effect into account.
- *(3) The department is directed to conduct periodic reviews of the WAUs adopted under this chapter to determine whether revisions are needed to more efficiently assess potential cumulative effects. The department shall consult the departments of ecology, fish and wildlife, affected Indian tribes, forest land owners, local government entities, and the public. From time to time and as appropriate, the department shall make recommendations to the board regarding revision of watershed administrative units.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091, § 222-22-020, filed 12/3/97, effective 1/3/98. Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, § 222-22-020, filed 12/20/93, effective 1/1/94. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-22-020, filed 7/2/92, effective 8/2/92.]

WAC 222-22-030 Qualification of watershed resource analysts, specialists, and field managers. *(1) The department shall set the minimum qualifications for analysts participating in level 1 assessments conducted under WAC 222-22-050, for specialists participating in level 2 assessments conducted under WAC 222-22-060, and for field managers participating in recommendation of prescriptions under WAC 222-22-070. The minimum qualifications shall be specific for the disciplines needed to participate in level 1 and level 2 assessments and in the recommendations of prescriptions, and shall include, at a minimum, formal education in the relevant discipline and field experience. Minimum qualifications for analysts participating in level 2 assessments should typically include a graduate degree in the relevant discipline.

- *(2) The department shall coordinate with relevant state and federal agencies, affected Indian tribes, forest land owners, local government entities, and the public to seek and utilize available qualified expertise to participate in watershed analysis.
- *(3) Qualified analysts, specialists, and field managers shall, while and only for the purpose of conducting a watershed analysis or monitoring in a WAU, be duly authorized representatives of the department for the purposes of RCW 76.09.150.
- *(4) An individual may qualify in more than one science or management skill. Qualification under subsection (1) of this section shall be effective for 5 years. When a qualification expires, a person requesting requalification shall meet the criteria in effect at the time of requalification.

*(5) The department shall provide and coordinate training for, maintain a register of, and monitor the performance of qualified analysts, specialists, and field managers by region. The department shall disqualify analysts, specialists, and field managers who fail to meet the levels of performance required by the qualification standards.

[Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, § 222-22-030, filed 12/20/93, effective 1/1/94. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-22-030, filed 7/2/92, effective 8/2/92.]

WAC 222-22-040 Watershed prioritization. (1) The department shall determine, by region, the order in which it will analyze WAUs. The department shall cooperate with the departments of ecology, fish and wildlife, affected Indian tribes, forest land owners, and the public in setting priorities. In setting priorities or reprioritizing WAUs, the department shall consider the availability of participation and assistance that may be provided by affected Indian tribes and local government entities.

- *(2) Except as set forth in subsection (3) of this section, the department shall undertake a watershed analysis on each WAU, in the order established under subsection (1) of this section.
- *(3) The owner or owners of ten percent or more of the nonfederal forest land acreage in a WAU may notify the department in writing that the owner or owners intend to conduct a level 1 assessment, level 2 assessment, or both, and the prescription recommendation process on the WAU under this chapter at their own expense. The notice shall identify the teams proposed to conduct the watershed analysis, which shall be comprised of individuals qualified by the department pursuant to WAC 222-22-030. The department shall promptly notify any owner or owners sending notice under this subsection if any member of the designated teams is not so qualified. Within 30 days of delivering a notice to the department under this subsection, the forest land owner or owners shall begin the level 1 assessment under WAC 222-22-050 or, at its option, the level 2 assessment under WAC 222-22-060. An approved forest land owner team shall, while and only for the purposes of conducting a watershed analysis in a WAU, be a duly authorized representative of the department for the purposes of RCW 76.09.150. The board encourages forest land owners conducting assessments under this chapter to include available, qualified expertise from state and federal agencies, affected Indian tribes, forest land owners, local government entities, and the public.
- *(4) Before beginning an analysis in a WAU, the department or the forest land owner conducting the analysis shall provide reasonable notice, including notice by regular United States mail where names and addresses have been provided to the department, to all forest land owners in the WAU, and to affected Indian tribes. The department or the forest land owner shall provide reasonable notice to the public and to state, federal, and local government entities, by, among other things, posting the notice conspicuously in the office of the departmental region containing the WAU. The notice shall be in a form designated by the department and give notice that an analysis is being conducted, by whose team, the time

period of the analysis, and the dates and locations in which the draft analysis will be available for review and comment.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091, § 222-22-040, filed 12/3/97, effective 1/3/98. Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, § 222-22-040, filed 12/20/93, effective 1/1/94. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-22-040, filed 7/2/92, effective 8/2/92.]

WAC 222-22-050 Level 1 watershed resource assess-

ment. *(1) To begin a watershed resource analysis on a WAU, the department shall assemble a level 1 assessment team consisting of analysts qualified under WAC 222-22-030(1). A forest land owner or owners acting under WAC 222-22-040(3) may assemble a level 1 assessment team consisting of analysts qualified under WAC 222-22-030(1) or, at its option, may begin the analysis under WAC 222-22-060. Each level 1 team shall include persons qualified in the disciplines indicated as necessary in the methodology, and should generally include persons qualified in:

- (a) Forestry;
- (b) Forest hydrology;
- (c) Forest soil science or geology;
- (d) Fisheries science; and
- (e) Geomorphology.

Any owner, and any cooperating group of owners, of ten percent or more of the nonfederal forest land acreage in the WAU and any affected Indian tribe shall be entitled to include one qualified individual to participate on the team at its own expense.

- *(2) The level 1 team shall perform an inventory of the WAU utilizing the methodology, indices of resource condition, and checklists set forth in the manual in accordance with the following:
- (a) The team shall survey the WAU for fish, water, and capital improvements of the state or its political subdivisions and shall display their location on a map of the WAU. The team shall determine the current condition of the resource characteristics of these resources, shall classify their condition as "good," "fair," or "poor," and shall display this information on the map of the WAU. The criteria used to determine current resource conditions shall include indices of resource condition, in addition to such other criteria as may be included in the manual. The indices will include two levels, which will distinguish between good, fair, and poor conditions.
- (b) The team shall assess the likelihood that identified watershed processes in a given physical location will be adversely changed by one forest practice or by cumulative effects and that, as a result, a material amount of water, wood, sediment, or energy (e.g., affecting temperature) will be delivered to fish, water, or capital improvements of the state or its political subdivisions. (This process is referred to in this chapter as "adverse change and deliverability.") (For example, the team will address the likelihood that road construction will result in mass wasting and a slide that will in turn reach a stream.) The team shall rate this likelihood of adverse change and deliverability as "high," "medium," "low," or "indeterminate." Those likelihoods rated high, medium, or indeterminate shall be displayed on the map of the WAU.

(c) For each instance of high, medium, or indeterminate likelihood of adverse change and deliverability identified under (b) of this subsection, the team shall assess the vulnerability of potentially affected resource characteristics. Criteria for resource vulnerability shall include indices of resource condition as described in (a) of this subsection and quantitative means to assess the likelihood of material adverse effects to resource characteristics caused by forest practices. (For example, the team will assess the potential damage that increased sediment caused by a slide reaching a stream will cause to salmon spawning habitat that is already in fair or poor condition.) The team shall rate this vulnerability "high," "medium," "low," or "indeterminate" and shall display those vulnerabilities on the map of the WAU. If there are no other criteria in the manual to assess vulnerability at the time of the assessment, current resource condition shall be used, with good condition equivalent to low vulnerability, fair condition equivalent to medium vulnerability, and poor condition equivalent to high vulnerability.

(d) The team shall identify as areas of resource sensitivity, as provided in table 1 of this section, the locations in which a management response is required under WAC 222-22-070(3) because, as a result of one forest practice or of cumulative effects, there is a combination of a high, medium, or indeterminate likelihood of adverse change and deliverability under (b) of this subsection and a low, medium, high, or indeterminate vulnerability of resource characteristics under (c) of this subsection:

Table 1

Areas of Resource Sensitivity and Management Response

Likelihood of Adverse Change and Deliverability

Vulnerability

	Low	Medium	High
Low	Standard rules	Standard rules	Response: Prevent or avoid
Medium	Standard rules	Response: Minimize	Response: Prevent or avoid
High	Standard rules	Response: Prevent or avoid	Response: Prevent or avoid

The team shall display the areas of resource sensitivity on the map of the WAU.

(e) The decision criteria used to determine low, medium, and high likelihood of adverse change and deliverability shall be as set forth in the manual. A low designation generally means there is minimal likelihood that there will be adverse change and deliverability. A medium designation generally means there is a significant likelihood that there will be adverse change and deliverability. A high designation generally means that adverse change and deliverability is more likely than not with a reasonable degree of confidence. Any areas identified as indeterminate in the level 1 assessment shall be classified for the purposes of the level 1 assessment as medium until a level 2 assessment is done on the WAU

under WAC 222-22-060, during which the uncertainties shall be resolved.

- (f) The team shall prepare a causal mechanism report regarding the relationships of each process identified in (b) and (c) of this subsection. The report shall demonstrate that the team's determinations were made in accordance with the manual. If, in the course of conducting a level 1 assessment, the team identifies areas in which voluntary corrective action will significantly reduce the likelihood of material, adverse effects to the condition of a resource characteristic, the team shall include this information in the report, and the department shall convey this information to the applicable land owner.
- *(3) Within 21 days of mailing notice under WAC 222-22-040(4), the level 1 team shall submit to the department its draft level 1 assessment, which shall consist of the map of the WAU marked as set forth in this section and the causal mechanism report proposed under subsection (2)(f) of this section. If the level 1 team is unable to agree as to one or more resource sensitivities or potential resource sensitivities, or the causal mechanism report, alternative designations and an explanation therefor shall be included in the draft assessment. Where the draft level 1 assessment delivered to the department contains alternative designations, the department shall within 21 days of the receipt of the draft level 1 assessment make its best determination and approve that option which it concludes most accurately reflects the proper application of the methodologies, indices of resource condition, and checklists set forth in the manual.
- *(4) If the level 1 assessment contains any areas in which the likelihood of adverse change and deliverability or resource vulnerability are identified as indeterminate under this section or if the level 1 methodology recommends it, the department shall assemble a level 2 assessment team under WAC 222-22-060 to resolve the uncertainties in the assessment, unless a forest land owner acting under WAC 222-22-040(3) has conducted a level 2 assessment on the WAU.
- *(5) Pending the completion of the level 2 assessment, if any, on the WAU, the department shall select interim prescriptions using the process and standards described in WAC 222-22-070 (1), (2), and (3) and 222-22-080(3) and shall apply them to applications and notifications as provided in WAC 222-22-090 (1) and (2). Before submitting recommended interim prescriptions to the department, the field managers' team under WAC 222-22-070(1) shall review the recommended prescriptions with available representatives of the jurisdictional management authorities of the fish, water, and capital improvements of the state or its political subdivisions in the WAU, including, but not limited to, the departments of fish and wildlife, ecology, and affected Indian tribes.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091, § 222-22-050, filed 12/3/97, effective 1/3/98. Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, § 222-22-050, filed 12/20/93, effective 1/1/94. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-22-050, filed 7/2/92, effective 8/2/92.]

WAC 222-22-060 Level 2 watershed resource assessment. *(1) The department, or forest land owner acting under WAC 222-22-040(3), may assemble a level 2 assessment

team either, in the case of a forest land owner, to begin a watershed analysis or to review the level 1 assessment on a WAU. The level 2 team shall consist of specialists qualified under WAC 222-22-030(1). Each level 2 team shall include persons qualified in the disciplines indicated as necessary in the methodology, and should generally include persons qualified in:

- (a) Forestry;
- (b) Forest hydrology;
- (c) Forest soil science or geology;
- (d) Fisheries science; and
- (e) Geomorphology.

Any owner, and any cooperating group of owners, of ten percent or more of the nonfederal forest land acreage in the WAU and any affected Indian tribe shall be entitled to designate one qualified member of the team at its own expense.

- *(2) The level 2 team shall perform an assessment of the WAU utilizing the methodology, indices of resource condition, and checklist set forth in the manual in accordance with the following:
- (a) If a level 1 assessment has not been conducted under WAC 222-22-050, the assessment team shall complete the tasks required under WAC 222-22-050(2), except that the level 2 team shall not rate any likelihood of adverse change and deliverability or resource vulnerability as indeterminate.
- (b) If the level 2 team has been assembled to review a level 1 assessment, the level 2 team shall, notwithstanding its optional review of all or part of the level 1 assessment, review each likelihood of adverse change and deliverability and resource vulnerability rated as indeterminate and shall revise each indeterminate rating to low, medium, or high and shall revise the map of the WAU accordingly.
- *(3) Within 60 days of mailing notice under WAC 222-22-040(4) where a watershed analysis begins with a level 2 assessment or within 60 days of beginning a level 2 assessment after completion of a level 1 assessment, the level 2 team shall submit to the department its draft level 2 assessment, which shall consist of the map of the WAU and the causal mechanism report.
- *(4) The level 2 team shall endeavor to produce a consensus report. If the level 2 team is unable to agree as to one or more areas of resource sensitivity or the casual mechanism report, alternative designations and an explanation therefor shall be included in the draft assessment. Where the draft level 2 assessment delivered to the department contains alternative designations or reports, the department shall within 30 days of the receipt of the draft level 2 assessment make its best determination and approve that option which it concludes most accurately reflects the proper application of the methodologies, indices of resource condition, and checklists set forth in the manual.

[Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, § 222-22-060, filed 12/20/93, effective 1/1/94. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-22-060, filed 7/2/92, effective 8/2/92.]

WAC 222-22-070 Prescription recommendation. *(1) For each WAU for which a watershed analysis is undertaken, the department, or forest land owner acting under WAC 222-22-040(3), shall assemble a team of field managers qualified

under WAC 222-22-030(1). The team shall include persons qualified in the disciplines indicated as necessary in the methodology, and shall generally include persons qualified in:

- (a) Forest resource management;
- (b) Forest harvest and road systems engineering;
- (c) Forest hydrology; and
- (d) Fisheries science or management.

Any owner, and any cooperating group of owners, of ten percent or more of the nonfederal forest land acreage in the WAU and any affected Indian tribe shall be entitled to include one qualified individual to participate on the team at its own expense.

- *(2) Each forest land owner in a WAU shall have the right to submit to the department or the forest land owner conducting the watershed analysis prescriptions for areas of resource sensitivity on its land. If these prescriptions are received within the time period described in subsection (4) of this section, they shall be considered for inclusion in the watershed analysis.
- *(3) For each identified area of resource sensitivity, the field managers' team shall, in consultation with the level 1 and level 2 teams, if any, select and recommend to the department prescriptions. These prescriptions shall be reasonably designed to minimize, or to prevent or avoid, as set forth in table 1 in WAC 222-22-050 (2)(d), the likelihood of adverse change and deliverability that has the potential to cause a material, adverse effect to resource characteristics in accordance with the following:
- (a) The prescriptions shall be designed to provide forest land owners and operators with as much flexibility as is reasonably possible while addressing the area of resource sensitivity. The prescriptions should, where appropriate, include, but not be limited to, plans for road abandonment, orphaned roads, and road maintenance and plans for applying prescriptions to recognized land features identified in the WAU as areas of resource sensitivity but not fully mapped;
- (b) Each set of prescriptions shall provide for an option for an alternate plan under WAC 222-12-040, which the applicant shows meets or exceeds the protection provided by the other prescriptions approved for a given area of resource sensitivity; and
- (c) The regulation of forest practices and cumulative effects under this chapter shall not require mitigation for activities or events not regulated under chapter 76.09 RCW. Any hazardous condition subject to forest practices identified in a watershed analysis requiring corrective action shall be referred to the department for consideration under RCW 76.09.300 et seq.
- *(4) The field managers' team shall submit the recommended prescriptions to the department within 30 days of the submission to the department of the level 2 assessment under WAC 222-22-060 or within 21 days of the submission to the department of the level 1 assessment under WAC 222-22-050

[Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, § 222-22-070, filed 12/20/93, effective 1/1/94. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-22-070, filed 7/2/92, effective 8/2/92.]

- WAC 222-22-080 Approval of watershed analysis. (1) Upon receipt of the recommended prescriptions resulting from a level 2 assessment under WAC 222-22-060 or a level 1 assessment under WAC 222-22-050 where a level 2 assessment will not be conducted, the department shall select prescriptions. The department shall circulate the draft watershed analysis to the departments of ecology, fish and wildlife, affected Indian tribes, local government entities, forest land owners in the WAU, and the public for review and comment. The prescriptions recommended by the field managers' team shall be given substantial weight. Within thirty days of receipt of the prescriptions, the department shall review comments, revise the watershed analysis as appropriate, and approve or disapprove the watershed analysis for the WAU.
- *(2) The department should notify any governmental agency or Indian tribe having jurisdiction over activities which are not regulated under chapter 76.09 RCW but which are identified in the draft analysis as having a potential for an adverse impact on identified fish, water, and capital improvements of the state or its political subdivisions.
- *(3) The department shall approve the draft watershed analysis unless it finds:
- (a) For any level 1 assessment or level 2 assessment, that:
- (i) The team failed in a material respect to apply the methodology, indices of resource condition, or checklists set forth in the manual; or
- (ii) A team meeting the criteria promulgated by the department and using the defined methodologies, indices of resource conditions, and checklists set forth in the manual could not reasonably have come to the conclusions identified in the draft level 1 or level 2 assessment; and
- (b) For the prescriptions, that they will not accomplish the purposes and policies of this chapter and of the Forest Practices Act, chapter 76.09 RCW.
- (c) In making its findings under this subsection, the department shall take into account its ability to revise assessments under WAC 222-22-090(3).
- *(4) If the department does not approve the draft watershed analysis, it shall set forth in writing a detailed explanation of the reasons for its disapproval.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091, § 222-22-080, filed 12/3/97, effective 1/3/98. Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, § 222-22-080, filed 12/20/93, effective 1/1/94. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-22-080, filed 7/2/92, effective 8/2/92.]

WAC 222-22-090 Use and review of watershed analysis. (1) Where a watershed analysis has been completed for a WAU under this chapter:

- (a) Forest practices applications and notifications submitted to the department shall indicate whether an area of resource sensitivity will be affected and, if so, which prescription the operator, timber owner, or forest land owner shall use in conducting the forest practice in the area of resource sensitivity;
- (b) The department shall assist operators, timber owners, and forest land owners in obtaining governmental permits required for the prescription (see WAC 222-50-020 and 222-50-030);

- (c) The department shall confirm that the prescription selected under (a) of this subsection was one of the prescriptions approved for the area of resource sensitivity under WAC 222-22-080 and shall require the use of the prescription; and
- (d) The department shall not further condition forest practice applications and notifications in an area of resource sensitivity in a WAU where the applicant will use a prescription contained in the watershed analysis nor shall the department further condition forest practice applications and notifications outside an area of resource sensitivity in a WAU, except for reasons other than the watershed processes and fish, water, and capital improvements of the state or its political subdivisions analyzed in the watershed analysis in the WAU, and except to correct mapping errors, misidentification of soils, landforms, vegetation, or stream features, or other similar factual errors.
- *(2) Pending completion of a watershed analysis for a WAU, the department shall process forest practices notifications and applications in accordance with the other chapters of this title, except that applications and notifications received for forest practices on a WAU after the date notice is mailed under WAC 222-22-040(4) commencing a watershed analysis on the WAU shall be conditioned to require compliance with interim, draft, and final prescriptions, as available. Processing and approval of applications and notifications shall not be delayed by reason of review, approval, or appeal of a watershed analysis.
- *(3) The board encourages cooperative and voluntary monitoring. Evaluation of resource conditions may be conducted by qualified specialists, analysts, and field managers as determined under WAC 222-22-030. Subsequent watershed analysis and management strategies in response to areas where recovery is not occurring shall be conducted in accordance with this chapter.
- *(4) Where the condition of resource characteristics in a WAU are fair or poor, the department shall evaluate the effectiveness of the prescriptions applied under this chapter to the WAU in providing for the protection and recovery of the resource characteristic. If the department finds that the prescriptions are not providing for such protection and recovery over a period of 3 years, the department shall repeat the watershed analysis in the WAU. Aside from the foregoing, once a watershed analysis is completed on a WAU, it shall be revised in whole or in part upon the earliest of the following to occur:
- (a) Five years after the date the watershed analysis is final, if necessary;
- (b) The occurrence of a natural disaster having a material adverse effect on the resource characteristics of the WAU;
- (c) Deterioration in the condition of a resource characteristic in the WAU measured over a 12-month period or no improvement in a resource characteristic in fair or poor condition in the WAU measured over a 12-month period unless the department determines, in cooperation with the departments of ecology, fish and wildlife, affected Indian tribes, forest land owners, and the public, that a longer period is reasonably necessary to allow the prescriptions selected to produce improvement; or

(d) The request of an owner of forest land in the WAU which wishes to conduct a watershed analysis at its own expense.

Revision of an approved watershed analysis shall be conducted in accordance with the processes, methods, and standards set forth in this chapter, except that the revised watershed analysis shall be conducted only on the areas affected in the case of revisions under (b) or (c) of this subsection, and may be conducted on areas smaller than the entire WAU in the case of revisions under (a) and (d) of this subsection. The areas on which the watershed analysis revision is to be conducted shall be determined by the department and clearly delineated on a map before beginning the assessment revision. Forest practices shall be conditioned under the current watershed analysis pending the completion of any revisions.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091, § 222-22-090, filed 12/3/97, effective 1/3/98. Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, § 222-22-090, filed 12/20/93, effective 1/1/94. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-22-090, filed 7/2/92, effective 8/2/92.]

WAC 222-22-100 Application review prior to watershed analysis. *The watershed analysis system established in this chapter is a principal methodology for assessing the effects on fish, water, and capital improvements of the state or its political subdivisions of two or more forest practices. Recognizing that it will not be possible to achieve state-wide implementation of the analysis process for all WAUs for some time, the board hereby establishes certain interim regulatory measures pending watershed analysis on a given WAU. These measures are designed to ensure use of the best available analysis techniques and existing authorities to protect fish, water, and capital improvements of the state or its political subdivisions.

- *(1) The department shall continue to use its implementation and enforcement authority to prevent damage to fish, water, and capital improvements of the state or its political subdivisions. See chapter 222-46 WAC.
- (a) The department shall continue to concentrate and exercise its authority in implementing the use of existing road construction, maintenance, and abandonment rules where there is evidence of road-related damage to fish, water, and capital improvements of the state or its political subdivisions. The applicable road construction and maintenance rules can be found in chapter 222-24 WAC.
- (b) The department shall report to the board each quarter the results of its road construction, maintenance, and abandonment enforcement program. No later than October 31 of each year, the board shall report on results and recommendations for regulatory change as needed to protect fish, water, and capital improvements of the state or its political subdivisions.
- *(2) The department shall condition the size of clearcut harvest applications in the significant rain-on-snow zone where the department determines, using local evidence, that peak flows have resulted in material damages to public resources. The department may prepare conditioning guidelines to assess and condition applications located in a significant rain-on-snow zone.

- (a) Each year not later than August 31, the department shall provide a summary report of actions taken under rainon-snow conditioning or conditioning guidelines to the appropriate board committee.
- (b) Such conditioning authority shall expire upon completion of watershed analysis in a WAU.
- (c) Nothing in this section shall require a watershed analysis to develop harvest size recommendations.

[Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, § 222-22-100, filed 12/20/93, effective 1/1/94. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-22-100, filed 7/2/92, effective 8/2/92.]

Chapter 222-24 WAC

Policy

ROAD CONSTRUCTION AND MAINTENANCE

WAC	
222-24-010	

222 21 010	10110).
222-24-020	Road location.
222-24-025	Road design.
222-24-030	Road construction.
222-24-035	Landing location and construction.
222-24-040	Water crossing structures.
222-24-050	Road maintenance.
222-24-060	Rock quarries, gravel pits, borrow pits, and spoil dis-
	posal areas.

Reviser's note: For an explanation of the rules marked with an asterisk (*), see WAC 222-12-010.

WAC 222-24-010 Policy. *(1) A well designed, located, constructed, and maintained system of forest roads is essential to forest management and protection of the public resources. Riparian areas contain some of the more productive conditions for growing timber, are heavily used by wildlife and provide essential habitat for fish and wildlife and essential functions in the protection of water quality. Wetland areas serve several significant functions in addition to timber production: Providing fish and wildlife habitat, protecting water quality, moderating and preserving water quantity. Wetlands may also contain unique or rare ecological systems.

- *(2) All road and landing construction within wetlands shall be conducted so that choices are made in the following descending order of preference:
- (a) Avoid impacts by selecting the least environmentally damaging landing location, road location and road length; or
- (b) Minimize impacts by such things as reducing the subgrade width, fill acreage and spoil areas; or
- (c) Restore affected areas by removing temporary fills or road sections upon the completion of the project; or
- (d) Reduce or eliminate impacts over time by preserving or maintaining areas; or
- (e) Replace affected areas by creating new wetlands or enhancing existing wetlands.
- *(3) An accurate delineation of wetland boundaries shall not be required under this section except where necessary to determine acreage of road or landing construction which fills or drains more than 0.5 acre of a wetland. Landowners are encouraged to voluntarily increase wetland acreage and functions over the long-term.
- *(4) Extra protection is required during road construction and maintenance to protect these resources and timber

growing potential. Landowners and fisheries and wildlife managers are encouraged to cooperate to develop road management and abandonment plans. Landowners are further encouraged to cooperate in sharing roads to minimize road mileage and avoid duplicative road construction.

*(5) This section covers the location, design, construction, maintenance and abandonment of forest roads, bridges, stream crossings, quarries, borrow pits, and disposal sites used for forest road construction and is intended to assist landowners in proper road planning, construction and maintenance so as to protect public resources.

(Note: Other laws and regulations and/or permit requirements may apply. See chapter 222-50 WAC.)

[Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, § 222-24-010, filed 12/20/93, effective 1/1/94. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-24-010, filed 7/2/92, effective 8/2/92. Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-24-010, filed 11/16/87, effective 1/1/88. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-24-010, filed 8/3/82, effective 10/1/82; Order 263, § 222-24-010, filed 6/16/76.]

WAC 222-24-020 Road location. (1) Fit the road to the topography so that a minimum of alterations to the natural features will occur.

- *(2) **Minimize roads** along or within narrow canyons, riparian management zones, wetlands and wetland management zones.
- (a) Except where crossings are necessary, roads shall not be located within natural drainage channels and riparian management zones when there would be substantial loss or damage to wildlife habitat unless the department has determined that alternatives will cause greater damage to public resources.
- (b) Roads shall not be located in wetlands when there would be substantial loss or damage to wetland functions or acreage unless the department has determined that alternatives will cause greater damage to public resources.
- (c) Approximate determination of wetland boundaries shall be required for the purpose of avoidance during design and construction of roads. Landowners should attempt to minimize road length concurrently with the attempt to avoid wetlands. Delineation shall be required to determine the length of road constructed within a wetland in order to determine acreage when replacement by substitution or enhancement of a wetland is required. The requirement for accurate delineation shall be limited to the area of the wetland proposed to be filled.
 - *(3) Minimize the number of stream crossings.
- *(4) Whenever practical, cross streams at right angles to the main channel.
- (5) Avoid duplicative roads by keeping the total amount of construction to a minimum. Use existing roads whenever practical and avoid isolating patches of timber which, when removed, may require unnecessary road construction.
- *(6) Where feasible, do not locate roads on excessively steep or unstable slopes or known slide prone areas as determined by the department. The department shall determine whether slopes are unstable using available soils information, or from evidence of geologically recent slumps or slides, or where the natural slope exceeds the angle of repose for the

particular soil types present, or where springs or seeps may indicate unstable conditions are present in or above the construction site.

Essential road construction will be accomplished by end hauling, over hauling, or other special road construction techniques unless the department determines there is potential for damage to public resources under WAC 222-16-050 (1)(e).

[Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-24-020, filed 7/2/92, effective 8/2/92. Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-24-020, filed 11/16/87, effective 1/1/88. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-24-020, filed 8/3/82, effective 10/1/82; Order 263, § 222-24-020, filed 6/16/76.]

- WAC 222-24-025 Road design. (1) Use the minimum design standard that produces a road sufficient to carry the anticipated traffic load with reasonable safety.
- *(2) **Subgrade width** should average not more than 32 feet for double lane roads and 20 feet for single lane roads, exclusive of ditches, plus any additional width necessary for safe operations on curves and turnouts. Where road location in wetlands is unavoidable (see WAC 222-24-010(2)), minimize subgrade width.
- (3) Balance excavation and embankments so that as much of the excavated material as is practical will be deposited in the roadway fill sections. Where full bench construction is necessary, design suitable embankments so that the excavated material may be end hauled to appropriate deposit areas.
- (4) **Design or construct** cut and fill slopes to the normal angle of repose for the materials involved, or at a lesser angle whenever practical.
- *(5) All roads should be outsloped or ditched on the uphill side and appropriate surface drainage shall be provided by the use of adequate cross drains, ditches, drivable dips, relief culverts, water bars, diversion ditches, or other such structures demonstrated to be equally effective.
- *(6) Cross drains, relief culverts, and diversion ditches shall not discharge onto erodible soils, or over fill slopes unless adequate outfall protection is provided.
- *(7) Install cross drains, culverts, water bars, drivable dips, or diversion ditches on all forest roads to minimize erosion of the road bed, cut bank, and fill slope, or to reduce sedimentation of Type 1, 2, 3 or 4 Water. Cross drains are required in wetlands to provide for continued hydrologic connectivity. These drainage structures shall be installed at all natural drainages, all low points in the road gradient and spaced no wider than as follows:

Grade	Distance Westside	Distance Eastside
0 to 7%	1,000 ft.	1,500 ft.
8% to 15%	800 ft.	1,000 ft.
over 15%	600 ft.	800 ft.

More frequent culvert spacing or other drainage improvements are required where site specific evidence of peak flows or soil instability makes additional culverts necessary to minimize erosion of the road bed, ditches, cut bank, and fill slope to reduce sedimentation of Type 1, 2, 3 or 4

Waters, or within wetlands or to avoid unreasonable risk to public resources. See "Additional culvert spacing recommendations" in the forest practices board manual. On request of the applicant, the department may approve less frequent drainage spacing where parent material (e.g. rock, gravel) or topography justify.

- *(8) **Relief culverts** installed on forest roads shall meet the following minimum specifications:
- (a) Be at least 18 inches in diameter or equivalent in western Washington and 15 inches in diameter or equivalent in eastern Washington.
- (b) Be installed sloping toward the outside edge of the road at a minimum gradient of 3 percent.
- *(9) **Ditch diversion.** Where roadside ditches slope toward a Type 1, 2, 3 Water, or Type A or B Wetland for more than 300 feet and otherwise would discharge into the stream or wetland, divert the ditchwater onto the forest floor by relief culvert or other means at the first practical point.
- *(10) Filling or draining more than 0.5 acre of a wetland requires replacement by substitution or enhancement of the lost wetland functions and, for creation of new wetlands, area. See the Board Manual. Where creation of new wetlands is proposed, the objective of successful replacement by substitution of lost wetland area shall be on an acre for acre basis and of the same type and in the same general location. Where replacement by enhancement of wetlands is proposed, the objective shall be to provide for an equivalent amount of function to replace that which is lost.

[Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, § 222-24-025, filed 12/20/93, effective 1/1/94. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-24-025, filed 7/2/92, effective 8/2/92. Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-24-025, filed 11/16/87, effective 1/1/88. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-24-025, filed 8/3/82, effective 10/1/82.]

WAC 222-24-030 Road construction. (1) Right of way timber. Merchantable right of way timber shall be removed or decked in suitable locations where the decks will not be covered by fill material or act as support for the fill or embankment.

*(2) Debris burial.

- (a) In permanent road construction, do not bury:
- (i) Loose stumps, logs or chunks containing more than 5 cubic feet in the load-bearing portion of the road, except as puncheon across wetlands or for culvert protection.
- (ii) Any significant amount of organic debris within the top 2 feet of the load-bearing portion of the road, except as puncheon across wetlands or for culvert protection.
- (iii) Excessive accumulation of debris or slash in any part of the load-bearing portion of the road fill, except as puncheon across wetlands or for culvert protection.
- (b) In the cases where temporary roads are being constructed across known areas of unstable soils and where possible construction failure would directly impact waters, the requirements in (a), (i), (ii) and (iii) of this subsection shall apply. A temporary road is a roadway which has been opened for the purpose of the forest practice operation in question, and thereafter will be an inactive or abandoned road.
- (3) Compact fills. During road construction, fills or embankments shall be built up by layering. Each layer shall

be compacted by operating the tractor or other construction equipment over the entire surface of the layer. Chemical compacting agents may be used in accordance with WAC 222-38-020.

- *(4) Stabilize soils. When soil, exposed by road construction, appears to be unstable or erodible and is so located that slides, slips, slumps, or sediment may reasonably be expected to enter Type 1, 2, 3 or 4 Water and thereby cause damage to a public resource, then such exposed soil areas shall be seeded with grass, clover, or other ground cover, or be treated by erosion control measures acceptable to the department. Avoid introduction of nonnative plant species, as listed in the board manual, to wetlands and wetland management zones.
- *(5) Channel clearance. Clear stream channel of all debris and slash generated during operations prior to the removal of equipment from the vicinity, or the winter season, whichever is first.

*(6) Drainage.

- (a) All required ditches, culverts, cross drains, drainage dips, water bars, and diversion ditches shall be installed concurrently with the construction of the roadway.
- (b) Uncompleted road construction to be left over the winter season or other extended periods of time shall be drained by outsloping or cross draining. Water bars and/or dispersion ditches may also be used to minimize eroding of the construction area and stream siltation. Water movement within wetlands must be maintained.
- *(7) **Moisture conditions.** Construction shall be accomplished when moisture and soil conditions are not likely to result in excessive erosion and/or soil movement, so as to avoid damage to public resources.
- *(8) End haul/sidecasts. End haul or overhaul construction is required where significant amounts of sidecast material would rest below the 50-year flood level of a Type 1, 2, 3, or 4 Water, within the boundary of a Type A or Type B Wetland or wetland management zones or where the department determines there is a potential for mass soil failure from overloading on unstable slopes or from erosion of side cast material causing damage to the public resources.
- *(9) Waste disposal. When spoil, waste and/or other debris is generated during construction, this material shall be deposited or wasted in suitable areas or locations and be governed by the following:
- (a) Spoil or other debris shall be deposited above the 50-year flood level of Type 1, 2, 3, or 4 Waters or in other locations so as to prevent damage to public resources. The material shall be stabilized by erosion control measures as necessary to prevent the material from entering the waters.
- (b) All spoils shall be located outside of Type A and Type B Wetlands and their wetland management zones. Spoils shall not be located within the boundaries of forested wetlands without written approval of the department and unless a less environmentally damaging location is unavailable. No spoil area greater than 0.5 acre in size shall be allowed within wetlands.
- (10) **Disturbance avoidance for northern spotted owls.** Road construction, operation of heavy equipment and blasting within a SOSEA boundary shall not be allowed within 0.25 mile of a northern spotted owl site center between

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March 1 and August 31, provided that, this restriction shall not apply if:

- (a) The landowner demonstrates that the owls are not actively nesting during the current nesting season; or
- (b) The forest practice is operating in compliance with a plan or agreement developed for the protection of the northern spotted owl under WAC 222-16-080 (6)(a), (e), or (f).
 - (11) Disturbance avoidance for marbled murrelets.
- (a) Road construction and operation of heavy equipment shall not be allowed within 0.25 mile of an occupied marbled murrelet site during the daily peak activity periods within the critical nesting season; and
- (b) Blasting shall not be allowed within 0.25 mile of an occupied marbled murrelet site during the critical nesting season.
- (c) Provided that, these restrictions shall not apply if the forest practice is operating in compliance with a plan or agreement developed for the protection of the marbled murrelet under WAC 222-16-080 (6)(a) or (c).

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091, § 222-24-030, filed 12/3/97, effective 1/3/98; 97-15-105, § 222-24-030, filed 7/21/97, effective 8/21/97. Statutory Authority: Chapters 76.09 and 34.05 RCW. 96-12-038, § 222-24-030, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 76.09.060, 76.09.040 and chapter 34.05 RCW. 92-23-056, § 222-24-030, filed 11/17/92, effective 12/18/92. Statutory Authority: RCW 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-24-030, filed 7/2/92, effective 8/2/92. Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-24-030, filed 11/16/87, effective 1/1/88. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-24-030, filed 8/3/82, effective 10/1/82; Order 263, § 222-24-030, filed 6/16/76.]

WAC 222-24-035 Landing location and construction. *(1) Landing location:

Locate landings to prevent damage to public resources. Avoid excessive excavation and filling. Minimize placement and size of landings within wetlands. Landings shall not be located in Type A or B Wetlands or their wetland management zones.

- (2) Landing construction.
- (a) Landings requiring sidecast or fill shall be no larger than reasonably necessary for safe operation of the equipment expected to be used.
- (b) Where the average general slopes exceed 65 percent, fill material used in construction of landings shall be free from loose stumps and excessive accumulations of slash and shall be mechanically compacted where necessary and practical in layers by tractor to prevent soil erosion and mass soil movement. Chemical compacting agents may be used in accordance with WAC 222-38-020.
- *(c) Truck roads, skid trails, and fire trails shall be outsloped or cross drained uphill of landings and the water diverted onto the forest floor away from the toe of any landing fill.
- *(d) Landings shall be sloped to minimize accumulation of water on the landing.
- *(e) Excavation material shall not be sidecast where there is high potential for material to enter Type A or B Wetlands or wetland management zones or below the ordinary high-water mark of any stream or the 50-year flood level of Type 1, 2, 3, or 4 Water.

*(f) All spoils shall be located outside of Type A and Type B Wetlands and their wetland management zones. Spoils shall not be located within the boundaries of forested wetlands without written approval of the department and unless a less environmentally damaging location is unavailable. No spoil area greater than 0.5 acre in size shall be allowed within wetlands.

[Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-24-035, filed 7/2/92, effective 8/2/92. Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-24-035, filed 11/16/87, effective 1/1/88. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-24-035, filed 8/3/82, effective 10/1/82.]

WAC 222-24-040 Water crossing structures. *(1) Bridge construction.

- (a) Bridges are required for new crossings of any Type 1 or 2 Waters regularly used for recreational boating.
- (b) Permanent bridges shall not constrict clearly defined channels and shall be designed to pass the 50-year flood level or the road shall be constructed to provide erosion protection from the 50-year flood waters which exceed the water-carrying capacity of the drainage structure.
- (c) One end of each new permanent log or wood bridge shall be tied or firmly anchored if any of the bridge structure is within 10 vertical feet of the 50-year flood level.
- (d) Excavation for bridges, placement of sills or abutments, and the placement of stringers or girders shall be accomplished from outside the ordinary high-water mark of all waters, except when such operations are authorized by a hydraulic project approval.
- (e) Earth embankments constructed for use as bridge approaches shall be protected from erosion by high water. Some examples of protection are: Planted or seeded ground cover, bulkheads, rock riprap, or retaining walls.
- (f) When earthen materials are used for bridge surfacing, curbs of sufficient size shall be installed to be above the surface material and prevent such surface material from falling into the stream bed.
- *(2) Culvert installation: All permanent culverts installed in forest roads shall be of a size that is adequate to carry the 50-year flood or the road shall be constructed to provide erosion protection from the 50-year flood waters which exceed the water-carrying capacity of the drainage structure. Refer to "Recommended culvert sizes" in the forest practices board manual for the size of permanent culverts recommended for use in forest roads. If the department determines that because of unstable slopes the culvert size shown on that table is inadequate to protect public resources, it may require culvert sizes in accordance with the nomograph (chart) contained in the forest practices board manual or with other generally accepted engineering principles.
- (a) No permanent culverts shall be installed that are smaller than:
- (i) 24 inches in diameter or the equivalent for anadromous fish streams or wetlands where anadromous fish are present.
- (ii) 18 inches or the equivalent for resident game fish streams.
- (iii) 18 inches or the equivalent for all other water or wetland crossings in western Washington.

- (iv) 15 inches or the equivalent for all other water or wetland crossings in eastern Washington.
- (b) The alignment and slope of the culvert shall parallel the natural flow of the stream whenever possible.
- (c) When fish life is present, construct the bottom of the culvert at or below the natural stream bed at the inlet and outlet.
- (d) Terminate culverts on materials that will not readily erode, such as riprap, the original stream bed (if stable), or other suitable materials.
- (e) If water is diverted from its natural channel, return this water to its natural stream bed via culvert, flume, spillway, or the equivalent.
- (f) When flumes, downspouts, downfall culverts, etc., are used to protect fill slopes or to return water to its natural courses, the discharge point shall be protected from erosion by: (i) Reducing the velocity of the water, (ii) use of rock spillways, (iii) riprap, (iv) splash plates, or (v) other methods or structures demonstrated to be equally effective.
- (g) Stream beds shall be cleared for a distance of 50 feet upstream from the culvert inlet of such slash or debris that reasonably may be expected to plug the culvert.
- (h) The entrance of all culverts should have adequate catch basins and headwalls to minimize the possibility of erosion or fill failure.
- *(3) Culverts in anadromous fish streams. In addition to the requirements of subsection (2) of this section, in streams used by anadromous fish:
- (a) Culverts shall be either open bottomed or have the bottom covered with gravel and installed at least 6 inches below the natural stream bed at the inlet and outlet.
- (b) Closed bottom culverts shall not slope more than 1/2 percent; except as provided in (e) of this subsection; open bottom culverts shall not slope more than the natural slope of the stream bed.
- (c) Where multiple culverts are used, one culvert shall be at least 6 inches lower than the other(s).
- (d) Culverts shall be set to retain normal stream water depth throughout the culvert length. A downstream control may be required to create pooled water back into the culvert and to insure downstream stream bed stability.
- (e) Closed bottom culverts, set at existing stream gradients between 1/2 percent and 3 percent slope shall be designed with baffles for water velocity control, or have an approved designed fishway.
- (f) The department, after consultation with the department of fish and wildlife, shall impose any necessary limitations on the time of year in which such culverts may be installed to prevent interference with migration or spawning of anadromous fish.
- (g) Any of the requirements in (a) through (f) of this subsection may be superseded by a hydraulic project approval.
 - *(4) Temporary water crossings.
- (a) Temporary bridges and culverts, adequate to carry the highest anticipated flow in lieu of carrying the 50-year flood, may be used:
- (i) In the westside region if installed after June 1 and removed by September 30 of the same year.

- (ii) In the eastside region if installed after the spring runoff and removed prior to the snow buildup which could feed a heavy runoff.
- (iii) At other times, when the department and applicant can agree to specific dates of installation and removal.
- (b) Temporary bridges and culverts shall be promptly removed upon completion of use, and the approaches to the crossing shall be water barred and stabilized at the time of the crossing removal.
- (c) Temporary wetland crossings shall be abandoned and restored based on a written plan approved by the department prior to construction.
- (5) Properly prepared and maintained fords may be used during periods of low water providing a hydraulic permit is acquired.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091, § 222-24-040, filed 12/3/97, effective 1/3/98. Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, § 222-24-040, filed 12/20/93, effective 1/1/94. Statutory Authority: RCW 76.09.060, 76.09.040 and chapter 34.05 RCW. 92-23-056, § 222-24-040, filed 11/17/92, effective 12/18/92. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-24-040, filed 7/2/92, effective 8/2/92. Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-24-040, filed 11/16/87, effective 1/1/88. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-24-040, filed 8/3/82, effective 10/1/82; Order 263, § 222-24-040, filed 6/16/76.]

WAC 222-24-050 Road maintenance. *(1) Road maintenance and abandonment plan.

- (a) The landowner when notified by the department shall submit a plan for road maintenance and abandonment for those drainages or road systems the department determines based on physical evidence to have a potential to damage public resources. The plan is subject to annual review and shall include:
 - (i) Ownership maps showing the road or road system;
- (ii) Road status, whether active, inactive, abandoned or planned for abandonment;
- (iii) Maintenance schedule and priorities for the year; and
- (iv) Plan for further maintenance and reconstruction beyond the current year for repair of extensive damage.
- (b) The plan shall be submitted to the department region office on or before June 30, 1988, and each June 30th thereafter unless the department agrees that no further plans are necessary.
- (c) The department will review the plan annually with the landowner to determine whether it will be effective and is being implemented.
- (d) Such plans shall also be reviewed with departments of ecology, fish and wildlife, and affected Indian tribes, any of whom may request an informal conference with the landowner.
- *(2) **Active roads.** An active road is a forest road being actively used for hauling of logs, pulpwood, chips, or other major forest products or rock and other road building materials. To the extent necessary to prevent damage to public resources, the following maintenance shall be conducted on such roads:
 - (a) Culverts and ditches shall be kept functional.
- (b) Road surface shall be maintained as necessary to minimize erosion of the surface and the subgrade.

- (c) During and on completion of operations, road surface shall be crowned, outsloped, or water barred and berms removed from the outside edge except those intentionally constructed for protection of fills.
- *(3) Inactive roads. An inactive road is a forest road on which commercial hauling is discontinued for 1 or more logging seasons, and the forest landowner desires continuation of access for fire control, forest management activities, Christmas tree growing operations, occasional or incidental use for minor forest products harvesting or similar activities on such inactive roads:
- (a) Before the first winter rainy season following termination of active use, nonfunctional ditches and culverts shall be cleared and the road surface shall be crowned, outsloped, water barred or otherwise left in a condition not conducive to accelerated erosion or interrupt water movement within wetlands; and
- (b) Thereafter, except as provided in (c) of this subsection, the landowner shall clear or repair ditches or culverts which he/she knows or should know to be nonfunctional and causing or likely to cause material damage to a public resource.
- (c) The landowner shall not be liable for penalties or monetary damages, under the act, for damage occurring from a condition brought about by public use, unless he/she fails to make repairs as directed by a notice to comply.
- *(4) Additional culverts/maintenance. If the department determines based on physical evidence that the above maintenance has been or will be inadequate to protect public resources and that additional measures will provide adequate protection it shall require the landowner or operator to either elect to:
- (a) Install additional or larger culverts or other drainage improvements as deemed necessary by the department; or
- (b) Agree to an additional road maintenance program. Such improvements in drainage or maintenance may be required only after a field inspection and opportunity for an informal conference.
- *(5) Abandoned roads. An abandoned road is a forest road which the forest landowner has abandoned in accordance with procedures of (a) through (e) of this subsection. Roads are exempt from maintenance only after (e) of this subsection is completed:
- (a) Roads are outsloped, water barred, or otherwise left in a condition suitable to control erosion and maintain water movement within wetlands; and
- (b) Ditches are left in a suitable condition to reduce erosion; and
- (c) The road is blocked so that four wheel highway vehicles can not pass the point of closure at the time of abandonment; and
- (d) Bridges, culverts, and fills on all waters are removed, except where the department determines other measures would provide adequate protection to public resources.
- (e) The department shall determine whether the road has been abandoned according to procedures of this subsection. If the department determines the road is properly abandoned, it shall within thirty days notify the landowner in writing that the road is officially abandoned.

*(6) **Brush control.** Chemical control of roadside brush shall not be done where chemicals will directly enter any Type 1, 2, or 3 or flowing Type 4 or 5 Water or Type A or B Wetlands. Refer to WAC 222-38-020 for additional information.

*(7) Road surface treatment.

- (a) Apply oil to the road surface only when the temperature is above 55 degrees F and during the season when there is a minimal chance of rain for the next 48 hours. Use of waste oil is subject to RCW 70.95I.060(5).
- (b) Water the road surface prior to application of oil to assist in penetration.
- (c) Construct a temporary berm along the road shoulder wherever needed to control runoff of the applied chemical.
- (d) Take extreme care to avoid excess application of road chemicals. Shut off the flow at all bridges.
- (e) When cleaning out chemical storage tanks or the application equipment tanks used for storage and application of road treatment materials, dispose of the rinse water fluids on the road surface or in a place safe from potential contamination of water.
- (f) The use of dry road chemicals shall be in compliance with WAC 222-38-020.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091, § 222-24-050, filed 12/3/97, effective 1/3/98; 93-12-001, § 222-24-050, filed 5/19/93, effective 6/19/93. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-24-050, filed 7/2/92, effective 8/2/92. Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-24-050, filed 11/16/87, effective 1/1/88. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-24-050, filed 8/3/82, effective 10/1/82; Order 263, § 222-24-050, filed 6/16/76.]

WAC 222-24-060 Rock quarries, gravel pits, borrow pits, and spoil disposal areas. Not covered by the Surface Mine Reclamation Act of 1971 (chapter 78.44 RCW).

- *(1) Location of pits. Except as approved by the department, rock quarries and gravel pits opened after January 1, 1975 shall be located above the 50-year flood level.
- *(2) Location of spoil disposal areas. Except as approved by the department, spoil disposal areas shall be located:
 - (a) Above the 50-year flood level.
- (b) Where the final slope after disposal will be no steeper than 1 1/2:1.
- (c) Where practical, on areas having low potential timber productivity.
- (d) Where the risk of soil erosion and mass soil movement is minimal.
- (e) All spoils shall be placed to allow drainage without additional water ponding.
- (f) All spoils shall be located outside of Type A and Type B Wetlands and their wetland management zones. Spoils shall not be located within the boundaries of forested wetlands without written approval of the department and unless a less environmentally damaging location is unavailable. No spoil area greater than 0.5 acre in size shall be allowed within wetlands.
- *(3) **Pit drainage.** During construction and use of rock quarries, gravel pits, or borrow pits, runoff water shall be either diverted onto the forest floor or be passed through one or more settling basins as approved by the department.

- (4) **Rehabilitation required.** All rock quarries, gravel pits, spoil disposal areas and borrow pits used after January 1, 1975 shall be reclaimed within 2 years from the time the rock or gravel source is either exhausted or abandoned.
- (5) **Rehabilitation standards.** Where rehabilitation is required:
- (a) Remove all deleterious material that has potential for damaging the public resource, the soil productivity, or that would prevent reforestation of an otherwise plantable area.
- (b) Grade slopes to less than the angle of repose unless otherwise approved.
- (c) Reforest in accordance with chapter 222-34 WAC to the extent practical.
- (d) Seed unreforested exposed erodible soils with grass, clover or other ground cover.
- *(6) **Major spoil disposal operations.** Where a spoil disposal operation involves more than 1,000 cubic yards of spoils:
- (a) The spoils shall be placed to provide drainage onto the forest floor without water ponding within the disposal area:
- (b) The site shall be reforested in accordance with chapter 222-34 WAC to the extent practical; and
- (c) If significant erosion of the spoils develops, the eroding areas shall be water barred and any unreforested areas shall be matted, mulched, or seeded with grass or ground cover.

[Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-24-060, filed 7/2/92, effective 8/2/92. Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-24-060, filed 11/16/87, effective 1/1/88; Order 263, § 222-24-060, filed 6/16/76.]

Chapter 222-30 WAC TIMBER HARVESTING

WAC	
222-30-010	Policy—Timber harvesting.
222-30-020	Harvest unit planning and design.
222-30-025	Even-aged harvest—Size and timing.
222-30-030	Stream bank integrity.
222-30-040	Shade requirements to maintain stream temperature.
222-30-050	Felling and bucking.
222-30-060	Cable yarding.
222-30-065	Helicopter yarding.
222-30-070	Tractor and wheeled skidding systems.
222-30-080	Landing cleanup.
222-30-090	Postharvest site preparation.
222-30-100	Slash disposal or prescribed burning.
222-30-110	Timber harvesting on islands.
222-30-120	Rate of harvest monitoring.

Reviser's note: For an explanation of the rules marked with an asterisk (*), see WAC 222-12-010.

WAC 222-30-010 Policy—Timber harvesting. *This section covers all removal of timber from forest lands in commercial operations, commercial thinning, salvage of timber, relogging merchantable material left after prior harvests, postharvest cleanup, and clearing of merchantable timber from lands being converted to other uses. It does not cover removal of incidental vegetation or removal of firewood for personal use. To the extent practical the department shall coordinate the activities on a multiple disciplinary planning approach. The riparian management zone requirements spec-

ified in this section are designed to provide protection for water quality and fisheries and wildlife habitat through ensuring present and future supplies of large organic debris for streams, snags, canopy cover, and a multistoried diverse forest adjacent to Type 1, 2 and 3 Waters. Wetland areas serve several significant functions in addition to timber production: Providing fish and wildlife habitat, protecting water quality, moderating and preserving water quantity. Wetlands may also contain unique or rare ecological systems. The wetland management zone and wetland requirements specified in this section are designed to protect these wetland functions when measured over the length of a harvest rotation, although some of the functions may be reduced until the midpoint of the timber rotation cycle. Landowners are encouraged to voluntarily increase wetland acreage and functions over the long-term.

(Note: Other laws or regulations and/or permit requirements may apply. See chapter 222-50 WAC.)

[Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-30-010, filed 7/2/92, effective 8/2/92. Statutory Authority: RCW 76.09.040. 88-19-112 (Order 551, Resolution No. 88-1), § 222-30-010, filed 9/21/88, effective 11/1/88. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-30-010, filed 8/3/82, effective 10/1/82; Order 263, § 222-30-010, filed 6/16/76.]

WAC 222-30-020 Harvest unit planning and design.

- (1) **Logging system.** The logging system should be appropriate for the terrain, soils, and timber type so yarding or skidding can be economically accomplished in compliance with these regulations.
- *(2) Landing locations. Locate landings to prevent damage to public resources. Avoid excessive excavation and filling.
- *(3) Western Washington riparian management zones. These zones shall be measured horizontally from the ordinary high-water mark of Type 1, 2 or 3 Water and extend to the line where vegetation changes from wetland to upland plant community, or the line required to leave sufficient shade as required by WAC 222-30-040, whichever is greater, but shall not be less than 25 feet in width nor more than the maximum widths described in (c) of this subsection, provided that the riparian management zone width shall be expanded as necessary to include wetlands or ponds adjacent to the stream. When the riparian management zone overlaps a Type A or B Wetland or a wetland management zone, the requirement which best protects public resources shall apply.
- (a) Harvest units shall be designed so that felling, bucking, yarding or skidding, and reforestation can be accomplished in accordance with these regulations, including those regulations relating to stream bank integrity and shade requirements to maintain stream temperature. Where the need for additional actions or restrictions adjacent to waters not covered by the following become evident, WAC 222-12-050 and 222-12-060 may apply.
- (b) When requested in writing by the applicant, the department shall assist in preparation of an alternate plan for the riparian management zone.
- (c) Within the riparian management zone, there shall be trees left for wildlife and fisheries habitat as provided for in the chart below. Fifty percent or more of the trees shall be live and undamaged on completion of the harvest. The leave trees shall be randomly distributed where feasible; some

clumping is allowed to accommodate operational considerations. The number, size, species and ratio of leave trees, deciduous to conifer, is specified by the bed material and average width of the water type within the harvest unit. Trees left according to (d) of this subsection may be included in the number of required leave trees in this subsection.

Western Washington Riparian Leave Tree Requirements

Water Type/ Average Width	RMZ Maximum Width	Ratio of Conifer to Deciduous/ Minimum Size Leave Trees	# Trees/1000 Gravel/ Cobble <10" Diameter	ft. each side Boulder/Bedrock
1 & 2 Water 75' & over	100'	representative of stand	50 trees	25 trees
1 & 2 Water under 75'	75'	representative of stand	100 trees	50 trees
3 Water 5' & over	50'	2 to 1/12" or next largest available	75 trees	25 trees
3 Water less than 5'	25'	1 to 1/6" or next largest available	25 trees	25 trees

"Or next largest available" requires that the next largest trees to those specified in the rule be left standing when those available are smaller than the sizes specified. Ponds or lakes which are Type 1, 2 or 3 Waters shall have the same leave tree requirements as boulder/bedrock streams.

- (d) For wildlife habitat within the riparian management zone, leave an average of 5 undisturbed and uncut wildlife trees per acre at the ratio of 1 deciduous tree to 1 conifer tree equal in size to the largest existing trees of those species within the zone. Where the 1 to 1 ratio is not possible, then substitute either species present. Forty percent or more of the leave trees shall be live and undamaged on completion of harvest. Wildlife trees shall be left in clumps whenever possible.
- (e) When 10 percent or more of the harvest unit lies within any combination of a riparian management zone of Type 1, 2 or 3 Waters or a wetland management zone and the harvest unit is a clearcutting of 30 acres or less, leave not less than 50 percent of the trees required in (c) of this subsection.
- *(4) Eastern Washington riparian management zones. These zones shall be measured horizontally from the ordinary high-water mark of Type 1, 2 or 3 Waters and extend to the line where vegetation changes from wetland to upland plant community, or to the line required to leave sufficient shade as required by WAC 222-30-040, whichever is greater, but shall not be less than the minimum width nor more than the maximum widths described in (c) of this subsection, provided that the riparian management zone width shall be expanded as necessary to include wetlands or ponds adjacent to the stream. When the riparian management zone overlaps a Type A or B Wetland or a wetland management zone, the requirement which best protects public resources shall apply.
- (a) Harvest units shall be designed so that felling, bucking, yarding or skidding, and reforestation can be accom-

plished in accordance with these regulations, including those regulations relating to stream bank integrity and shade requirements to maintain stream temperature. Where the need for additional actions or restrictions adjacent to waters not covered by the following become evident, WAC 222-12-050 and 222-12-060 may apply.

- (b) When requested in writing by the applicant, the department shall assist in preparation of an alternate plan for the riparian management zone.
- (c) Within the riparian management zone, there shall be trees left for wildlife and fisheries habitat as provided for below. Fifty percent or more of the trees shall be live and undamaged on completion of the harvest. The leave trees shall be randomly distributed where feasible; some clumping is allowed to accommodate operational considerations.
- (i) The width of the riparian management zone shall be based on the adjacent harvest type as defined in WAC 222-16-010 "Partial cutting." When the adjacent unit harvest type is:

Partial cutting - The riparian management zone width shall be a minimum of 30 feet to a maximum of 50 feet on each side of the stream.

Other harvest types - The riparian management zone shall average 50 feet in width on each side of the stream with a minimum width of 30 feet and a maximum of 300 feet on each side of the stream.

- (ii) Leave tree requirements within the riparian management zones of Type 1, 2 or 3 Waters:
- (A) Leave all trees 12 inches or less in diameter breast height (dbh); and
- (B) Leave all wildlife reserve trees within the riparian management zone where operations in the vicinity do not violate the state safety regulations (chapter 296-54 WAC and chapter 49.17 RCW administered by department of labor and industries, safety division); and

- (C) Leave 16 live conifer trees/acre between 12 inches dbh and 20 inches dbh distributed by size, as representative of the stand; and
- (D) Leave 3 live conifer trees/acre 20 inches dbh or larger and the 2 largest live deciduous trees/acre 16 inches dbh or larger. Where these deciduous trees do not exist, and where 2 wildlife reserve trees/acre 20 inches or larger do not exist, substitute 2 live conifer trees/acre 20 inches dbh or larger. If live conifer trees of 20 inches dbh or larger do not exist within the riparian management zone, then substitute the 5 largest live conifer trees/acre; and
- (E) Leave 3 live deciduous trees/acre between 12 inches and 16 inches dbh where they exist.
- (iii) Minimum leave tree requirements per acre for Type 1, 2 and 3 Waters. Trees left for (c)(ii) of this subsection shall be included in the minimum counts.
- (A) On streams with a boulder/bedrock bed, the minimum leave tree requirements shall be 75 trees/acre 4 inches dbh or larger.
- (B) On streams with a gravel/cobble (less than 10 inches diameter) bed, the minimum leave tree requirement shall be 135 trees/acre 4 inches dbh or larger.
- (C) On lakes or ponds the minimum leave tree requirement shall be 75 trees/acre 4 inches dbh or larger.

(See the Forest Practices Board Manual for assistance in calculating trees/acre and average RMZ widths.)

- (d) When 10 percent or more of the harvest unit lies within any combination of a riparian management zone of Type 1, 2 or 3 Waters or a wetland management zone and either the harvest unit is a clearcutting of 30 acres or less or the harvest unit is a partial cutting of 80 acres or less, leave not less than 50 percent of the trees required in (c) of this subsection. (See WAC 222-16-010 "Partial cutting.")
- *(5) Riparian leave tree areas. The department will require trees to be left along Type 4 Water where such practices are necessary to protect public resources. Where such practices are necessary leave at least 25 conifer or deciduous trees, 6 inches in diameter or larger, on each side of every 1000 feet of stream length within 25 feet of the stream. The leave trees may be arranged to accommodate the operation.
- *(6) Forested wetlands. Within the wetland, unless otherwise approved in writing by the department, harvest methods shall be limited to low impact harvest or cable systems. Where feasible, at least one end of the log shall be suspended during yarding.
- (a) When forested wetlands are included within the harvest area, landowners are encouraged to leave a portion (30 to 70%) of the wildlife reserve tree requirement for the harvest area within a wetland. In order to retain undisturbed habitat within forested wetlands, these trees should be left in clumps. Leave tree areas should be clumped adjacent to streams, riparian management zones, or wetland management zones where possible and they exist within forested wetlands. Green recruitment trees should be representative of the size and species found within the wetland. Leave nonmerchantable trees standing where feasible.
- (b) If a RMZ or WMZ lies within a forested wetland, the leave tree requirement associated with those areas may be counted toward the percentages in (a) of this subsection.

- (c) If the conditions described in (a) and (b) of this subsection are met, the distribution requirements for wildlife reserve trees and green recruitment trees (subsection (11)(e) of this section) are modified as follows: For purposes of distribution, no point within the harvest unit shall be more than 1000 feet from a wildlife reserve tree and green recruitment tree retention area.
- (d) Approximate determination of the boundaries of forested wetlands greater than 5 acres shall be required. Approximate boundaries and areas shall be deemed to be sufficient for harvest operations.
- (e) The department shall consult with the department of fish and wildlife and affected Indian tribes about site specific impacts of forest practices on wetland-sensitive species in forested wetlands.
- *(7) Wetland management zones (WMZ). These zones shall apply to Type A and B Wetlands, as indicated in (a) of this subsection, and shall be measured horizontally from the wetland edge or the point where the nonforested wetland becomes a forested wetland, as determined by the method described in the board manual, and shall be of an average width as described in (a) of this subsection. These zones shall not be less than the minimum nor more than the maximum widths described in (a) of this subsection. When these zones overlap a riparian management zone the requirement which best protects public resources shall apply.
- *(a) Wetland management zones (WMZ) shall have variable widths based on the size of the wetland and the wetland type, described as follows:

Wetland Management Zones

Wetland Type	Acres of Nonforested Wetland*	Maximum WMZ Width	Average WMZ Width	Minimum WMZ Width
A (including bogs)	Greater than 5	200 feet	100 feet	50 feet
A (including bogs)	0.5 to 5	100 feet	50 feet	25 feet
A (bogs only)	0.25 to 0.5	100 feet	50 feet	25 feet
В	Greater than 5	100 feet	50 feet	25 feet
В	0.5 to 5			25 feet
В	0.25 to 0.5	No WMZ required	No WMZ required	

^{*}For bogs, both forested and non-forested acres are included.

- (b) Within the WMZ, leave a total of 75 trees per acre of WMZ greater than 6 inches dbh in Western Washington and greater than 4 inches dbh in Eastern Washington, 25 of which shall be greater than 12 inches dbh including 5 trees greater than 20 inches dbh, where they exist. Leave trees shall be representative of the species found within the WMZ.
- (c) Retain wildlife reserve trees where feasible. Type 1 and 3 wildlife reserve trees may be counted among, and need not exceed, the trees required in (b) of this subsection. Leave all cull logs on site.
- (d) Partial-cutting or removal of groups of trees is acceptable within the WMZ. The maximum width of openings created by harvesting within the WMZ shall not exceed 100 feet as measured parallel to the wetland edge. Openings within WMZs shall be no closer than 200 feet. Landowners are encouraged to concentrate leave trees within the WMZ to the wetland edge.
- *(e) Tractors, wheeled skidders, or other ground based harvesting systems shall not be used within the minimum WMZ width without written approval of the department.
- *(f) When 10% or more of a harvest unit lies within any combination of a wetland management zone or a riparian management zone of Type 1, 2, or 3 Waters and either the harvest unit is a clearcut of 30 acres or less or the harvest unit is a partial cut of 80 acres or less, leave not less than 50% of the trees required in (b) of this subsection.
- *(8) **Type A or B Wetlands.** Within the boundaries of Type A or B Wetlands the following shall apply:
- (a) Individual trees or forested wetland areas less than 0.5 acre in size may occur. These trees have a high habitat value to the nonforested wetland. Leave individual trees or forested wetlands less than 0.5 acre. These trees may be counted toward the WMZ requirements.

- (b) Harvest of upland areas or forested wetlands which are surrounded by Type A or B Wetlands must be conducted in accordance with a plan, approved in writing by the department.
- (c) No timber shall be felled into or cable yarded across Type A or B Wetlands without written approval of the department.
- (d) Harvest shall not be allowed within a Type A Wetland which meets the definition of a bog.
- (9) **Future productivity.** Harvesting shall leave the land in a condition conducive to future timber production except:
- (a) To the degree required for riparian management zones; or
- (b) Where the lands are being converted to another use or classified urban lands as specified in WAC 222-34-050.
- (10) **Wildlife habitat.** This subsection is designed to encourage timber harvest practices that would protect wildlife habitats, provided, that such action shall not unreasonably restrict landowners action without compensation.
- (a) The applicant should make every reasonable effort to cooperate with the department of fish and wildlife to identify critical wildlife habitats (state) as defined by the board. Where these habitats are known to the applicant, they shall be identified in the application or notification.
- (b) Harvesting methods and patterns in established big game winter ranges should be designed to insure adequate access routes and escape cover where practical.
- (i) Where practical, cutting units should be designed to conform with topographical features.
- (ii) Where practical on established big game winter ranges, cutting units should be dispersed over the area to provide cover, access for wildlife, and to increase edge effect.

- (11) Wildlife reserve tree management. In areas where leaving wildlife reserve trees under this section will not create a significant fire hazard, or significant hazard to overhead power lines and operations that are proposed in the vicinity of wildlife reserve trees will not create a significant safety or residential hazard nor conflict with achieving conformance with the limitation of or performance with the provisions of chapter 76.04 RCW (snag falling law) and chapter 49.17 RCW (safety), wildlife reserve trees will be left to protect habitat for cavity nesting wildlife in accordance with the following:
- (a) In Western Washington, for each acre harvested 3 wildlife reserve trees, 2 green recruitment trees, and 2 down logs shall be left. In Eastern Washington for each acre harvested 2 wildlife reserve trees, 2 green recruitment trees, and 2 down logs shall be left. Type 1 wildlife reserve trees may be counted, at the landowner's option, either as a wildlife reserve tree or as a green recruitment tree. If adequate wildlife reserve trees are not available, no additional green recruitment trees will be required as substitutes. Landowners shall not under any circumstances be required to leave more than 2 green recruitment trees per acre for the purpose of wildlife reserve tree recruitment, or be required to leave Type 3 or 4 wildlife reserve trees.
- (b) In Western Washington, only those wildlife reserve trees 10 or more feet in height and 12 or more inches dbh shall be counted toward wildlife reserve tree retention requirements. In Eastern Washington, only those wildlife reserve trees 10 or more feet in height and 10 or more inches dbh shall be counted toward wildlife reserve tree retention requirements. Green recruitment trees, 10 or more inches dbh and 30 or more feet in height and with at least 1/3 of their height in live crown, left standing after harvest may be counted toward green recruitment tree requirements. Green recruitment trees and/or wildlife reserve trees left to meet other requirements of the rules or those left voluntarily by the landowner shall be counted toward satisfying the requirements of this section. Large, live defective trees with broken tops, cavities, and other severe defects are preferred as green recruitment trees. Only down logs with a small end diameter greater than or equal to 12 inches and a length greater than or equal to 20 feet or equivalent volume shall be counted under (a) of this subsection. Large cull logs are preferred as down logs.
- (c) In the areas where wildlife reserve trees are left, the largest diameter wildlife reserve trees shall be retained to meet the specific needs of cavity nesters. Where the opportunity exists, larger trees with numerous cavities should be retained and count as recruitment trees.
- (d) In order to facilitate safe and efficient harvesting operations, wildlife reserve trees and recruitment trees may be left in clumps. For purposes of distribution, no point within the harvest unit shall be more than 800 feet from a wildlife reserve tree or green recruitment tree retention area. Subject to this distribution requirement, the location of these retention areas and the selection of recruitment trees shall be at the landowner's discretion. Closer spacing of retention areas through voluntary action of the landowner is encouraged. Wildlife reserve tree and green recruitment tree retention areas may include, but are not limited to, riparian man-

- agement zones, riparian leave tree areas, other regulatory leave areas, or voluntary leave areas that contain wildlife reserve trees and/or green recruitment trees.
- (e) In order to provide for safety, landowners may remove any Type 3 or 4 wildlife reserve tree which poses a threat to humans working, recreating, or residing within the hazard area of that tree. In order to provide for fire safety, the distribution of wildlife reserve tree retention areas, described in (d) of this subsection, may be modified as necessary based on a wildlife reserve tree management plan proposed by the landowner and approved by the department.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091, § 222-30-020, filed 12/3/97, effective 1/3/98; 97-15-105, § 222-30-020, filed 7/21/97, effective 8/21/97; 94-17-033, § 222-30-020, filed 8/10/94, effective 8/13/94; 93-12-001, § 222-30-020, filed 5/19/93, effective 6/19/93. Statutory Authority: RCW 76.09.060, 76.09.040 and chapter 34.05 RCW. 92-23-056, § 222-30-020, filed 11/17/92, effective 12/18/92. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-30-020, filed 7/2/92, effective 8/2/92. Statutory Authority: RCW 76.09.040. 88-19-112 (Order 551, Resolution No. 88-1), § 222-30-020, filed 9/21/88, effective 11/1/88; 87-23-036 (Order 535), § 222-30-020, filed 11/16/87, effective 1/1/88; Order 263, § 222-30-020, filed 6/16/76.]

WAC 222-30-025 Even-aged harvest—Size and timing. Except as provided in WAC 222-30-110, unit size and timing of timber harvesting by even-aged harvest methods is subject to the following requirements:

- (1) Timber harvest which would result in an area larger than one hundred twenty acres and smaller than or equal to two hundred forty acres harvested by even-aged harvest methods on land owned or controlled by one landowner shall be reviewed by an interdisciplinary team, if the department determines that review is necessary. The area harvested by even-aged harvest methods, for the purposes of this subsection, shall be determined in accordance with subsection (3) of this section.
- (2) Timber harvest which would result in an area larger than two hundred forty acres harvested by even-aged harvest methods on land owned or controlled by one landowner shall be prohibited. The area harvested by even-aged harvest method for the purposes of this subsection shall be determined in accordance with subsection (3) of this section.
- (3) In calculating areas harvested by even-aged harvest methods, the area harvested by even-aged harvest methods shall include the acreage of that harvest unit and, all contiguous acreage harvested by even-aged harvest methods which is owned or controlled by the same landowner, except that acreage harvested by even-aged harvest methods sharing 10% or less of the common perimeter with the harvest unit under consideration shall not be considered contiguous for the purposes of this section.
- (4) Harvest units shall be designed so that each harvest unit meets at least one of the following criteria:
- (a) At least thirty percent of the unit's perimeter is in stands of trees that are thirty years of age or older;
- (b) At least sixty percent of the unit's perimeter is in stands of trees that are fifteen years of age or older; or
- (c) At least ninety percent of the unit's perimeter is in stands of trees that have survived on site a minimum of five growing seasons or, if not, have reached an average height of four feet.

Evaluation of unit perimeters is subject to the conditions specified in subsection (6) of this section.

- (5) The requirements of subsections (2), (3), and (4) of this section shall apply only to timber harvest by even-aged harvest methods and shall not apply to timber harvest to salvage timber damaged by wind, disease, insects, fire, or other natural causes or to forest practices involving the clearing of land of brush or understocked hardwoods to convert to managed hardwoods or conifers.
- (6) In evaluating the perimeters of harvest units pursuant to subsection (4) of this section, the following conditions shall apply:
- (a) The following shall be treated as fully stocked, mature stands that will not be counted as contiguous acreage harvested by even-aged methods for the purposes of subsections (1) and (2) of this section and which will be counted as thirty-year-old stands for the purposes of subsection (4) of this section:
- (i) In Western Washington, a riparian management zone or wetland management zone that is twice the width with twice the tree count required by WAC 222-30-020(3) along Type 1, 2, or 3 Waters;
- (ii) In Eastern Washington, a riparian management zone or wetland management zone that is the width required by WAC 222-30-020(4);
 - (iii) Designated upland management areas;
- (iv) Lands in a shoreline of state-wide significance where harvest is limited under RCW 90.58.150;
- (v) The portions of a perimeter consisting of land in uses other than forest land, such as land in agricultural or residential use and natural openings, and land not owned or controlled by the landowner who has proposed the harvest unit subject to the application under consideration;
- (b) A stand of trees other than those described in (a) of this subsection shall be treated as a certain age class only if the stand is at least three hundred feet wide;
- (c) Timber harvest units subject to an approved application or a notification for timber harvesting shall be treated as if the timber harvesting operation proposed in the application or notification were completed and regeneration not yet established.
- (7) This section shall not apply to notifications or applications approved before July 1, 1992, or to one renewal of those applications, and shall not apply to timber that the landowner or operator demonstrated to the department is subject to a cutting right created by written contract before July 1, 1992, which cutting right would expire before all the timber subject to it could reasonably be harvested.

[Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-30-025, filed 7/2/92, effective 8/2/92.]

- WAC 222-30-030 Stream bank integrity. *In the riparian management zone along all Type 1, 2 and 3 Waters, the operator shall:
- (1) **Avoid disturbing brush** and similar understory vegetation;
- (2) **Avoid disturbing stumps** and root systems and any logs embedded in the bank;
- (3) **Leave high stumps** where necessary to prevent felled and bucked timber from entering the water;

(4) Leave trees which display large root systems embedded in the bank.

[Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-30-030, filed 11/16/87, effective 1/1/88; Order 263, § 222-30-030, filed 6/16/76.]

WAC 222-30-040 Shade requirements to maintain stream temperature. *(1) Determination of adequate shade. The temperature prediction method in subsections (2) and (3) of this section shall be used to determine appropriate shade levels for flowing Type 1, 2, and 3 Waters to prevent excessive water temperatures which may have detrimental impact on aquatic resources.

- *(2) Temperature prediction method. In addition to the riparian management zone requirements, leave trees shall be retained in riparian management zones on flowing Type 1, 2, and 3 Waters as provided by the method described in the board manual which includes the following considerations:
 - (a) Minimum shade retention requirements; and
 - (b) Regional water temperature characteristics; and
 - (c) Elevation; and
- (d) Temperature criteria defined for stream classes in chapter 173-201A WAC.
- *(3) Leave tree requirements for shade. The method described in subsection (2) of this section shall be used to establish the minimum shade cover based on site specific characteristics. When site specific data indicate that preharvest conditions do not meet the minimums established by the method, no additional shade removal from riparian management zones will be allowed.
- (4) **Waivers.** The department may waive or modify the shade requirements where:
- (a) The applicant agrees to a staggered setting program producing equal or greater shade requirements to maintain stream temperature; or
- (b) The applicant provides alternative means of stream temperature control satisfactory to the department; or
- (c) The temperature method indicates that additional shade will not affect stream temperature.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 93-12-001, § 222-30-040, filed 5/19/93, effective 6/19/93. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-30-040, filed 7/2/92, effective 8/2/92. Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-30-040, filed 11/16/87, effective 1/1/88. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-30-040, filed 8/3/82, effective 10/1/82; Order 263, § 222-30-040, filed 6/16/76.]

WAC 222-30-050 Felling and bucking. *(1) Falling along water.

(a) No trees will be felled into Type 1, 2 and 3 Waters, or Type A or B Wetlands except trees which cannot practically and safely be felled outside the stream, lake or pond using techniques in general use and these trees must then be removed promptly.

Such felling and removing in Type 1, 2 or 3 Waters shall comply with the hydraulic project approval of the department of fish and wildlife.

(b) Within riparian management zones, and wetland management zones fall trees favorable to the lead consistent with safety standards to yard or skid away from the waters.

(1999 Ed.)

The use of directional falling, lining, jacking and staged falling techniques are encouraged.

(c) Trees may be felled into Type 4 Water if logs are removed as soon thereafter as practical. See forest practices board manual guidelines for clearing slash and debris from Type 4 and 5 Water.

*(2) Bucking in water.

- (a) No bucking or limbing shall be done on trees or portions thereof lying between the banks of Type 1, 2 or 3 Waters or in open water areas of Type A Wetlands, except as necessary to remove the timber from the water.
- (b) Where bucking or limbing is done between the banks of a Type 4 Water, care shall be taken to minimize accumulation of slash in the water.
- *(3) Falling near riparian management zones, wetland management zones and setting boundaries. Reasonable care shall be taken to avoid felling trees into riparian management zones, wetland management zones and areas outside the harvest unit.
- (4) Falling in selective and partial cuts. Reasonable care shall be taken to fall trees in directions that minimize damage to residual trees.
- (5) **Disturbance avoidance for northern spotted owls.** Felling and bucking within a SOSEA boundary shall not be allowed within 0.25 mile of a northern spotted owl site center between March 1 and August 31 provided that, this restriction shall not apply if:
- (a) The landowner demonstrates that the owls are not actively nesting during the current nesting season; or
- (b) The forest practice is operating in compliance with a plan or agreement developed for the protection of the northern spotted owl under WAC 222-16-080 (6)(a), (e), or (f).
- (6) Disturbance avoidance for marbled murrelets. Felling and bucking shall not be allowed within 0.25 mile of an occupied marbled murrelet site during the daily peak activity periods within the critical nesting season, provided that, this restriction shall not apply if the forest practice is operating in compliance with a plan or agreement developed for the protection of the marbled murrelet under WAC 222-16-080 (6)(a) or (c).

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091, \S 222-30-050, filed 12/3/97, effective 1/3/98; 97-15-105, \S 222-30-050, filed 7/21/97, effective 8/21/97. Statutory Authority: Chapters 76.09 and 34.05 RCW. 96-12-038, \S 222-30-050, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, \S 222-30-050, filed 7/2/92, effective 8/2/92. Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), \S 222-30-050, filed 11/16/87, effective 1/1/88. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), \S 222-30-050, filed 8/3/82, effective 10/1/82; Order 263, \S 222-30-050, filed 6/16/76.]

WAC 222-30-060 Cable yarding. *(1) Type 1, 2 and 3 Waters. No timber shall be cable yarded in or across a Type 1, 2 or 3 Waters except where the logs will not materially damage the bed of waters, banks or riparian management zones and removals from Type 1, 2 or 3 Water have hydraulic project approval of the department of fish and wildlife.

*(2) **Type A or B Wetlands.** No timber shall be cable yarded in or across Type A or B Wetlands without written approval from the department.

- *(3) **Deadfalls.** Any logs which are firmly embedded in the bed of a Type 1, 2, 3 and 4 Waters shall not be removed or unnecessarily disturbed without approval of the department of fish and wildlife.
- *(4) Yarding in riparian management zones and wetland management zones. Where timber is yarded from or across a riparian management zone, or wetland management zone reasonable care shall be taken to minimize damage to the vegetation providing shade to the stream or open water areas and to minimize disturbance to understory vegetation, stumps and root systems. Where practical and consistent with good safety practices, logs shall be yarded in the direction in which they lie and away from Type A or B Wetlands or Type 1, 2 and 3 Waters until clear of the wetland management zone or riparian management zone.

(5) Direction of yarding.

- (a) Uphill yarding is preferred.
- (b) Where downhill yarding is used, reasonable care shall be taken to lift the leading end of the log to minimize downhill movement of slash and soils.
- *(c) When yarding parallel to a Type 1, 2 or 3 Water channel below the 50-year flood level or within the riparian management zone, reasonable care shall be taken to minimize soil disturbance and to prevent logs from rolling into the stream, lake, pond, or riparian management zone.
- (6) Disturbance avoidance for northern spotted owls. The operation of heavy equipment within a SOSEA boundary shall not be allowed within 0.25 mile of a northern spotted owl site center between March 1 and August 31 provided that, this restriction shall not apply if:
- (a) The landowner demonstrates that the owls are not actively nesting during the current nesting season; or
- (b) The forest practice is operating in compliance with a plan or agreement developed for the protection of the northern spotted owl under WAC 222-16-080 (6)(a), (e), or (f).
- (7) Disturbance avoidance for marbled murrelets. Yarding or operation of heavy equipment shall not be allowed within 0.25 mile of an occupied marbled murrelet site during the daily peak activity periods within the critical nesting season, provided that, this restriction shall not apply if the forest practice is operating in compliance with a plan or agreement developed for the protection of the marbled murrelet under WAC 222-16-080 (6)(a) or (c).

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091, § 222-30-060, filed 12/3/97, effective 1/3/98; 97-15-105, § 222-30-060, filed 7/21/97, effective 8/21/97. Statutory Authority: Chapters 76.09 and 34.05 RCW. 96-12-038, § 222-30-060, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-30-060, filed 7/2/92, effective 8/2/92. Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-30-060, filed 11/16/87, effective 1/1/88. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-30-060, filed 8/3/82, effective 10/1/82; Order 263, § 222-30-060, filed 6/16/76.]

WAC 222-30-065 Helicopter yarding. (1) Helicopter operations within a SOSEA boundary shall not be allowed within 0.25 mile of a northern spotted owl site center between March 1 and August 31, provided that, this restriction shall not apply if:

(a) The landowner demonstrates that the owls are not actively nesting during the current nesting season; or

- (b) The forest practice is operating in compliance with a plan or agreement developed for the protection of the northern spotted owl under WAC 222-16-080 (6)(a), (e), or (f).
 - (2) Helicopter operations shall not be allowed:
- (a) Over an occupied marbled murrelet site or the required managed buffer zone adjacent to that site during the critical nesting season; or
- (b) Within 0.25 mile of an occupied marbled murrelet site during the daily peak activity periods within the critical nesting season.
- (c) Provided that, these restrictions shall not apply if the forest practice is operating in compliance with a plan or agreement developed for the protection of the marbled murrelet under WAC 222-16-080 (6)(a) or (c).

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-15-105, § 222-30-065, filed 7/21/97, effective 8/21/97. Statutory Authority: Chapters 76.09 and 34.05 RCW. 96-12-038, § 222-30-065, filed 5/31/96, effective 7/1/96.]

WAC 222-30-070 Tractor and wheeled skidding systems. *(1) Typed waters and wetlands.

- (a) Tractor and wheeled skidders shall not be used in Type 1, 2 or 3 Water, except with approval by the department and with a hydraulic project approval of the department of fish and wildlife.
- (b) In order to maintain wetland water movement and water quality, and to prevent soil compaction, tractor or wheeled skidders shall not be used in Type A or B Wetlands without prior written approval of the department.
- (c) Within all wetlands, tractors and wheeled skidder systems shall be limited to low impact harvest systems. Ground based logging systems operating in wetlands shall only be allowed within wetlands during periods of low soil moisture or frozen soil conditions.
- (d) Skidding across any flowing Type 4 Water shall be minimized and when done, temporary stream crossings shall be used, if necessary, to maintain stream bed integrity.
- (e) Whenever skidding in or across any type water, the direction of log movement between stream banks shall be as close to right angles to the stream channel as is practical.

*(2) Riparian management zone.

- (a) Logging will be permitted within the zone. However, any use of tractors, wheeled skidders, or other yarding machines within the zone must be as described in an approved forest practices application or otherwise approved in writing by the department.
- (b) Where skidding in or through the riparian management zone is necessary, the number of skidding routes through the zone shall be minimized.
- (c) Logs shall be skidded so as to minimize damage to leave trees and vegetation in the riparian management zone, to the extent practical and consistent with good safety practices.

*(3) Wetlands management zones.

- (a) Logging will be permitted within wetland management zones.
- (b) Where feasible logs shall be skidded at least with one end suspended from the ground so as to minimize soil disturbance and damage to leave trees and vegetation in the wetland management zone.

- (c) Tractors, wheeled skidders, or other ground based harvesting systems shall not be used within the minimum WMZ width without written approval of the department.
- *(4) **Deadfalls.** Logs firmly embedded in the bed or bank of Type 1, 2, 3 or 4 Waters shall not be removed or unnecessarily disturbed without hydraulic project approval of the departments of fisheries or wildlife.
- *(5) Moisture conditions. Tractor and wheeled skidders shall not be used on exposed erodible soils or saturated soils when soil moisture content is so high that unreasonable soil compaction, soil disturbance, or wetland, stream, lake or pond siltation would result.
- (6) **Protection of residual timber.** Reasonable care shall be taken to minimize damage from skidding to the stems and root systems of residual timber and to young reproduction.

*(7) Skid trail construction.

- (a) Skid trails shall be kept to the minimum feasible width.
- (b) Reasonable care shall be taken to minimize the amount of sidecast required and shall only be permitted above the 50-year flood level.
- (c) Skid trails shall be outsloped where practical, but be insloped where necessary to prevent logs from sliding or rolling downhill off the skid trail.
- *(8) **Skid trail maintenance.** Upon completion of use and termination of seasonal use, skid trails on slopes in exposed soils shall be water barred where necessary to prevent soil erosion.
- *(9) **Slope restrictions.** Tractor and wheeled skidders shall not be used on slopes where in the opinion of the department this method of operation would cause unnecessary or material damage to a public resource.
- (10) **Disturbance avoidance for northern spotted owls**. The operation of heavy equipment within a SOSEA boundary shall not be allowed within 0.25 mile of a northern spotted owl site center between March 1 and August 31, provided that, this restriction shall not apply if:
- (a) The landowner demonstrates that the owls are not actively nesting during the current nesting season; or
- (b) The forest practice is operating in compliance with a plan or agreement developed for the protection of the northern spotted owl under WAC 222-16-080 (6)(a), (e), or (f).
- (11) Disturbance avoidance for marbled murrelets. Operation of heavy equipment shall not be allowed within 0.25 mile of an occupied marbled murrelet site during the daily peak activity periods within the critical nesting season, provided that, this restriction shall not apply if the forest practice is operating in compliance with a plan or agreement developed for the protection of the marbled murrelet under WAC 222-16-080 (6)(a) or (c).

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091, § 222-30-070, filed 12/3/97, effective 1/3/98; 97-15-105, § 222-30-070, filed 7/21/97, effective 8/21/97. Statutory Authority: Chapters 76.09 and 34.05 RCW. 96-12-038, § 222-30-070, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-30-070, filed 7/2/92, effective 8/2/92. Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-30-070, filed 11/16/87, effective 1/1/88. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-30-070, filed 8/3/82, effective 10/1/82; Order 263, § 222-30-070, filed 6/16/76.]

WAC 222-30-080 Landing cleanup. Except as approved by the department, the following rules shall be met within 60 days after completion of hauling logs from any landing, or as soon thereafter as practical.

*(1) Drainage.

- (a) Clean any ditches and culverts obstructed by dirt or debris during operation(s).
- (b) Establish a slope that will prevent water from accumulating on the landing or running from the landing down any erodible fill.

*(2) Other erosion control measures.

- (a) Cut slopes shall be cut back to an angle expected to remain stable.
- (b) Where exposed soil is unstable or erodible and may be reasonably expected to cause damage to a public resource, it shall be seeded with grass, clover or ground cover or compacted, riprapped, water barred, benched or mulched, or be treated by other means approved by the department.

(3) Cleanup.

- (a) Slash accumulations which would prevent reforestation of otherwise plantable fills, sidecast or cut slopes of landings shall be disposed of or be piled on the landing floor for future disposal.
- (b) Slash shall not be buried in any filled portion of the landing in connection with landing cleanup operations.
- (c) All cables, machine parts and other inorganic debris resulting from harvest operation(s) shall be removed at the time of landing cleanup.

[Order 263, § 222-30-080, filed 6/16/76.]

WAC 222-30-090 Postharvest site preparation.

Unless the application or notification indicates that the landowner or forest landowner specifically agrees to assume responsibility for compliance with this section, the operator shall leave the site in a condition suitable for reforestation following any clear cutting, or any partial cutting west of the summit of the Cascades where 80 percent or more of the cubic volume is removed within any 5 consecutive years unless the department determines that the live trees remaining will reasonably utilize the timber growing capacity of the soils. Lands being converted to another use or classified as urban development lands under WAC 222-34-050 are exempt.

The following site preparation is required when necessary to establish a condition suitable for reforestation:

- (1) Cutting, slashing, or other treatment of all noncommercial tree species, other competing vegetation, and nonmerchantable size trees commonly known as "whips" which will not reasonably utilize the growing capacity of the soil except in wetland management zones, riparian management zones; or
 - (2) Pile or windrow slash; or
 - (3) Mechanically scatter slash; or
- (4) Leave the cutover area in a condition for controlled broadcast burning, and subsequently burn.

[Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-30-090, filed 7/2/92, effective 8/2/92. Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-30-090, filed 11/16/87, effective 1/1/88. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-30-090, filed 8/3/82, effective 10/1/82; Order 263, § 222-30-090, filed 6/16/76.]

WAC 222-30-100 Slash disposal or prescribed burning. (1) Slash disposal techniques:

- *(a) Any conventional method of slash disposal may be used, except in Type A or B Wetlands, wetland management zones, and riparian management zones and on sites where the department determines that a particular method would cause unreasonable risk to public resources or unreasonably damage site productivity. Conventional methods of slash disposal include the following: Controlled broadcast burning; pile or windrow and burn; pile or windrow without burning; mechanical scatter and compaction; scarification; chip, mulch or lop and scatter; burying; and physical removal from the forest lands: Provided, That on land shown to have low productivity potential the landowner or operator shall obtain the department's approval of its regeneration plan prior to utilizing controlled broadcast burning as a slash disposal technique. In riparian management zones, slash disposal shall be by hand, unless approved by the department. Scarification shall not be allowed within wetlands. Machine piling is discouraged in wetlands.
- (b) All slash burning requires a burning permit from the department which provides for compliance with the smoke management plan and reasonable care to protect Type A and B Wetlands, wetland management zones, riparian management zones, soil, residual timber, public resources, and other property.
- *(c) Location of slash piles. Except where burning will be completed before the next ordinary high-water season, slash shall not be piled or windrowed below the 50-year flood level of any Type 1, 2, 3 or 4 Water or in locations from which it could be expected to enter any stream, lake or pond.
- (2) **Slash isolation, reduction, or abatement** is required when the department determines there is an extreme fire hazard according to law (see chapter 332-24 WAC).
- (3) **Slash disposal** is required where the forest landowner has applied for and been granted an extension of time for reforestation on the grounds that slash disposal is necessary or desirable before reforestation.

*(4) Removing slash and debris from streams.

"Slash" or "debris" which can reasonably be expected to cause significant damage to the public resource shall be removed from Type 1, 2, 3 or 4 Waters, to above the 50-year flood level and left in a location or manner minimizing risk of re-entry into the stream, lake or pond and if substantial accumulations of slash exist below the 50-year flood level of Type 1, 2, 3 or 4 Waters, slash disposal is required. See the forest practices board manual for "Guidelines for clearing slash and debris from Type 4 and 5 Waters."

*(5) Fire trails.

- (a) Construct dips, water bars, cross drainage and ditches as needed to control erosion.
- (b) Reasonable care shall be taken to minimize excavation during fire trail construction and sidecast shall only be permitted above the 50-year flood level.
- (c) Fire trails shall not be located within Type A or B Wetlands, wetland management zones, or riparian zones without prior written approval of the department. Hand constructed fire trails are preferred within forested wetlands. When machine built fire trails are necessary for control of burning, trail width and excavation shall be minimized.

- (6) Disturbance avoidance for northern spotted owls. Burning within a SOSEA boundary shall not be allowed within 0.25 mile of a northern spotted owl site center between March 1 and August 31, provided that, this restriction shall not apply if:
- (a) The landowner demonstrates that the owls are not actively nesting during the current nesting season; or
- (b) The forest practice is operating in compliance with a plan or agreement developed for the protection of the northern spotted owl under WAC 222-16-080 (6)(a), (e), or (f).
- (7) Disturbance avoidance for marbled murrelets. Slash disposal or prescribed burning shall not be allowed within 0.25 mile of an occupied marbled murrelet site during the critical nesting season, provided that, this restriction shall not apply if the forest practice is operating in compliance with a plan or agreement developed for the protection of the marbled murrelet under WAC 222-16-080 (6)(a) or (c).

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091, § 222-30-100, filed 12/3/97, effective 1/3/98; 97-15-105, § 222-30-100, filed 7/21/97, effective 8/21/97. Statutory Authority: Chapters 76.09 and 34.05 RCW. 96-12-038, § 222-30-100, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-30-100, filed 7/2/92, effective 8/2/92. Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-30-100, filed 11/16/87, effective 1/1/88. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-30-100, filed 8/3/82, effective 10/1/82; Order 263, § 222-30-100, filed 6/16/76.]

WAC 222-30-110 Timber harvesting on islands. On an island:

- (1) A landowner shall not harvest by clearcut so that more than forty contiguous acres of that landowner's forest land are in a clearcut condition;
- (2) Forest land harvested by clearcut remains in the clearcut condition until it has reached canopy closure or it has been reforested for at least ten years;
- (3) Clearcut harvest units are contiguous unless separated by a buffer at least two hundred feet wide that has reached canopy closure, has been reforested for at least ten years, or is in a land use other than timber production.
- (4) Within two hundred feet of the ordinary high-water mark of saltwater timber harvest shall be by selective harvest only, so that no more than thirty percent of the merchantable trees are harvested in any ten-year period: *Provided*, That other timber harvesting methods may be permitted in those limited instances where the topography, soil conditions, or silvicultural practices necessary for regeneration render selective harvest ecologically detrimental: *Provided further*, That harvest by clearcut on lands being converted to another use may be approved.
- (5) The requirements of this section shall not apply to timber harvest to salvage timber damaged by wind, disease, insects, fire, or other natural causes.
- (6) This section shall not apply to notifications or applications approved before July 1, 1992, or to one renewal of those applications, and shall not apply to timber that the land-owner or operator demonstrated to the department is subject to a cutting right created by written contract before July 1, 1992, which cutting right would expire before all the timber subject to it could reasonably be harvested.

[Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-30-110, filed 7/2/92, effective 8/2/92.]

- WAC 222-30-120 Rate of harvest monitoring. (1) Purpose. A monitoring program will be established to determine the rate of timber harvest so that this information will be available, in combination with other information, for examining the relationship of the rate of timber harvest to sustainability of the timber industry and protection of public resources.
- (2) Monitoring program. The department shall monitor the rate at which forest land is harvested. The geographic base for monitoring will be a water resource inventory area.
- (3) Annual report to the board. In addition to the report provided for in WAC 222-08-035, the department shall report monitoring results to the board, annually, beginning in August 1992, including:
- (a) A summary of rate of harvest by water resource inventory area; and
- (b) Any other information considered to be significant in understanding the status of the rate of harvest.

Actual reporting periods may be modified as dictated by the availability of satellite imagery.

- (4) Review of the rate of harvest monitoring program.
- (a) No later than March 1, 1996, the board will review and evaluate the effectiveness of the monitoring program.
- (b) The department shall provide, for review by the board, a compilation and summary of the annual reports for calendar years 1991, 1992, 1993, 1994, and 1995.

[Statutory Authority: RCW 76.09.040. 92-08-025, § 222-30-120, filed 3/23/92, effective 4/23/92.]

Chapter 222-34 WAC REFORESTATION

WAC	
222-34-010	Required reforestation—West of Cascades Summit.
222-34-020	Required reforestation—East of Cascades Summit.
222-34-030	Reforestation—Plans—Reports—Inspections.
222-34-040	Site preparation and rehabilitation.
222-34-050	Urban and other lands exempted from the reforestation
	requirements.

Reviser's note: For an explanation of the rules marked with an asterisk (*), see WAC 222-12-010.

WAC 222-34-010 Required reforestation—West of Cascades Summit. (1) Reforestation - where required.

- (a) Unless the harvest application indicates that the land will be converted to another use, or the lands are identified in WAC 222-34-050 as having a likelihood of conversion to urban uses, reforestation is required for forest lands harvested after January 1, 1975 in the following instances:
 - (i) Clearcutting; or
- (ii) Partial cutting where 50 percent or more of the timber volume is removed within any 5-year period, unless the department determines that the live trees remaining will reasonably utilize the timber growing capacity of the soils.
 - (b) Reforestation is not required where:
- (i) Individual dead, dying, down or windthrown trees are salvaged; or
- (ii) A tree or trees not constituting a merchantable stand are removed from lands in actual use for other purposes; for

example, removal of individual trees from lands used for farming or grazing; or

- (iii) Trees are removed under a thinning program reasonably expected to maximize the long-term production of commercial timber; or
- (iv) A minimum of 190 vigorous, undamaged, well-distributed seedlings per acre of a commercial tree species are established on the area harvested and not more than 20 percent of the harvested area has from 150 to 190 seedlings per acre; or
- (v) A minimum of 100 vigorous, undamaged, well-distributed saplings or merchantable trees per acre of a commercial species or combinations thereof, remain on the area harvested.
- (2) Acceptable stocking. Stocking levels are acceptable if a minimum of 190 well-distributed, vigorous, undamaged seedlings per acre of commercial tree species or such lesser number as the department determines will reasonably utilize the timber growing capacity of the site, have survived on the site at least 1 growing season. "Well-distributed" means that not more than 20 percent of the harvested area contains less than a minimum of 150 seedlings per acre as determined by the department.
- (3) Competing vegetation. Competing vegetation shall be controlled to the extent necessary to allow establishment, survival, and growth by commercial species.
 - (4) Artificial regeneration standards.
- (a) Satisfactory reforestation clearcuts. Satisfactory reforestation of a clearcut harvest occurs if within 3 years of completion of harvest, or a period of from 1 to 10 years as determined by the department in the case of a natural regeneration plan, the site is restocked to at least the acceptable stocking levels described in subsection (2) of this section: *Provided*, That regeneration failures from causes beyond the applicant's control will not result in violation of this section, but supplemental planting or reforestation may be required except in riparian management zones (see WAC 222-34-030(4)).

The department may grant an extension of time for planting or seeding if suitable seedlings or seeds are unavailable, or if weather conditions or other circumstances beyond the forest land owner's control require delay in planting or seeding.

- (i) **Reforestation species.** Where the species proposed for reforestation after timber harvesting differs from the removed stand, the department may approve use of the proposed species where the reforestation plan reveals that the proposed species is preferable from any of the following standpoints:
- (A) Site data indicates better potential production for the proposed species than the existing species.
 - (B) Control of forest insects or diseases.
 - (C) Greater economic return.
- (ii) **Seedling or seeding standards.** Except as approved by the department to qualify as acceptable reforestation, the seedlings or seeds must be from an appropriate seed source zone. The department shall establish seed zones and guidelines for their use.
- (b) Satisfactory reforestation partial cuts. Where reforestation is required in connection with a partial cut, the

harvest application shall include a plan for stocking improvement. The plan shall be approved unless the department determines that it will not reasonably utilize the timber growing capacity of the site.

- (5) **Natural regeneration standards.** A natural regeneration plan may be approved as acceptable reforestation if:
- (a) A seed source of well formed trees of commercial tree species, capable of seed production is available.
- (b) The owner of the seed source agrees in writing not to harvest the seed source for the time period specified in the plan, or until issuance of a satisfactory reforestation inspection report.
 - (c) The seed source must consist of:
- (i) Seed blocks of sizes and locations shown on the plan and satisfactory to the department; or
- (ii) An average of at least 8 individually marked, well-distributed, undamaged, vigorous, windfirm seed trees per acre of plantable area and no inadequately stocked area is more than 400 feet from the nearest seed tree; and
- (iii) Competing vegetation shall be controlled to the extent necessary to allow establishment, survival, and growth by commercial species.
- (6) Any alternate plan for natural reforestation may be approved if it provides a practical method of achieving acceptable stocking levels as described in subsection (2) of this section within a period of 1 to 10 years.

[Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-34-010, filed 11/16/87, effective 1/1/88; 86-21-040 (Resolution No. 86-2), § 222-34-010, filed 10/10/86, effective 12/1/86. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-34-010, filed 8/3/82, effective 10/1/82; Order 263, § 222-34-010, filed 6/16/76.]

WAC 222-34-020 Required reforestation—East of Cascades Summit. (1) Reforestation - where required.

- (a) Unless the harvest application indicates that the land will be converted to another use, or the lands are identified in WAC 222-34-050 as having a likelihood of conversion to urban use, reforestation is required for forest lands harvested after January 1, 1975 in the following instances:
 - (i) Clearcutting; or
- (ii) Partial cutting where 50 percent or more of the timber volume is removed within any 5-year period, unless the department determines that the live trees remaining will reasonably utilize the timber growing capacity of the soils.
 - (b) Reforestation is not required where:
- (i) Individual dead, dying, down or windthrown trees are salvaged; or
- (ii) A tree or trees not constituting a merchantable stand are removed from lands in actual use for other purposes, for example, removal of individual trees from lands used exclusively for farming or cultivated pasture; or
- (iii) Trees are removed under a thinning program reasonably expected to maximize the long-term production of commercial timber; or
- (iv) A minimum of 150 vigorous, undamaged, well-distributed seedlings per acre of a commercial tree species are established on the area harvested and not more than 20 percent of the harvested area has from 120 to 150 seedlings per acre; or
- (v) A minimum of 100 vigorous, undamaged, well-distributed advanced regeneration, saplings or merchantable

trees per acre of a commercial tree species or combinations thereof, remain on the area harvested.

- (2) Acceptable stocking. Stocking levels are acceptable if a minimum of 150 well-distributed, vigorous, undamaged seedlings per acre of commercial tree species or such lesser number as the department determines will reasonably utilize the timber growing capacity of the site have survived on the site at least 1 growing season. "Well-distributed" means that not more than 20 percent of the harvested area contains less than a minimum of 120 trees per acre as determined by the department.
- (3) **Competing vegetation.** Competing vegetation shall be controlled to the extent necessary to allow establishment survival and growth by commercial species.
 - (4) Artificial regeneration standards.
- (a) Satisfactory reforestation clearcuts. Satisfactory reforestation of a clearcut harvest occurs if within 3 years of completion of harvest or a period of from 1 to 10 years as determined by the department in the case of a natural regeneration plan, the site is restocked to at least the acceptable stocking levels described in subsection (2) of this section: *Provided*, That regeneration failures from causes beyond the applicant's control will not result in a violation of this section, but supplemental planting may be required except in riparian management zones (see WAC 222-34-030(4)).

The department may grant an extension of time for planting or seeding if suitable seedlings or seeds are unavailable, or if weather conditions or other circumstances beyond the forest landowner's control require delay in planting or seeding.

- (i) **Reforestation species.** Where the species proposed for reforestation after timber harvesting differs from the removed stand, the department may approve use of the proposed species where the reforestation plan reveals that the proposed species is preferable from any of the following standpoints:
- (A) Site data indicates better potential production for the proposed species than the existing species.
 - (B) Control of forest insects or diseases.
 - (C) Greater economic return.
- (ii) **Seedling and seed standards.** Except as approved by the department to qualify as acceptable reforestation, the seedlings and seed must be from an appropriate seed source zone. The department shall establish seed zones and guidelines for their use.
- (b) Satisfactory reforestation partial cuts. Partial cuts not meeting the specifications of subsection (1)(b)(iv) or (v) of this section shall have a seed source as required in subsection (5)(c)(ii) of this section.
- (5) **Natural regeneration standards.** A natural regeneration plan may be approved by the department as acceptable reforestation if:
- (a) A seed source of well-formed, vigorous trees of commercial tree species capable of seed production is available.
- (b) The owner of the seed source agrees in writing not to harvest the seed source for the time period specified in the plan or until issuance of a satisfactory reforestation inspection report.
- (c) The seed source consists of one of the following, or combinations thereof:

- (i) Seed blocks which total a minimum of 5 percent of the area of each 40 acre subdivision or portion thereof harvested: *Provided*, That the seed block should be reasonably windfirm, at least 1/2 acre in size, and reserved in locations shown on the plan and approved by the department; or
- (ii) A minimum of 4 undamaged seed trees per acre, well distributed over each 40 acre subdivision or portion thereof harvested: *Provided*, That the distance from seed trees of harvested areas that are not adequately stocked should not be more than 200 feet. Seed trees shall be of commercial tree species, vigorous and of seed-bearing age and size.
- (6) Any alternate plan for natural reforestation may be approved if it provides a practical method of achieving acceptable stocking levels as described in subsection (2) of this section within a period of 1 to 10 years.

[Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-34-020, filed 11/16/87, effective 1/1/88; 86-21-040 (Resolution No. 86-2), § 222-34-020, filed 10/10/86, effective 12/1/86. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-34-020, filed 8/3/82, effective 10/1/82; Order 263, § 222-34-020, filed 6/16/76.]

WAC 222-34-030 Reforestation—Plans—Reports—Inspections. (1) Reforestation plans. Reforestation plans must be submitted with the application or notification except where no reforestation is required. The department shall designate difficult regeneration areas utilizing silvicultural information. When a forest practice is proposed for such an area, the department may require additional information regarding harvest systems and post harvest site preparation, as well as regeneration. The department shall approve the reforestation plan for difficult regeneration areas if it determines that such a plan will achieve acceptable stocking according to WAC 222-34-010 and 222-34-020.

- (2) **Reforestation reports.** The landowner, forest landowner, or his/her designee shall file a report with the department either at the time of completion of planting or reforestation or at the end of the normal planting season. When artificial seeding is used the report shall be filed 2 growing seasons after seeding.
- (3) The reports in subsection (2) of this section must contain at least the following:
- (a) The original forest practice application or notification number
 - (b) Species reforested, planted, or seeded.
 - (c) Age of stock planted or seed source zone.
- (d) Description of actual area reforested, planted, or seeded.
- (4) Inspection; supplemental planting or reforestation directives.
- (a) Within 12 months after a reforestation report is received, the department shall inspect the reforested lands. The department shall issue written notice to the landowner, forest landowner, or his/her designee stating whether supplemental planting or reforestation or further inspection is required within 30 days after the deadline for inspection or the reforestation shall be deemed satisfactory.
- (b) If the inspection shows that acceptable stocking levels have not been achieved, the department shall direct the forest landowner to perform supplemental planting in accor-

dance with the planting standards of WAC 222-34-010 (3) and (4)(a)(ii), 222-34-020 (3) and (4)(a)(ii): Provided, That:

- (i) In lieu of such supplemental planting, the department and the forest landowner may agree on a supplemental reforestation plan.
- (ii) Supplemental planting or reforestation shall not be required where in the opinion of the department planting or reforestation is not feasible due to rocky ground, dry conditions, excessively high water table or other adverse site factors and the department determines that there is little probability of significantly increasing the stocking level.
- (iii) Where supplemental planting or reforestation has been required by the department, the landowner, forest landowner, or his/her designee shall file a report of supplemental planting or reforestation upon completion.
- (iv) Except where stocking improvement is necessary to protect public resources and is feasible, further supplementary planting shall not be required where acceptable stocking levels have not been achieved after two properly performed supplemental plantings.
- (c) Within 12 months after a supplemental planting or reforestation report is received, the department shall inspect the reforested lands.
- (d) Evidence of compliance. The department shall within 30 days after the deadline for inspection or reinspection and when requested by the forest landowner confirm in writing whether acceptable stocking levels have been achieved, provided field conditions do not prevent the department from properly evaluating the reforestation.
- (e) Where a natural regeneration plan has been approved by the department, the department may allow up to 10 years to achieve acceptable stocking levels.

[Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, § 222-34-030, filed 12/20/93, effective 1/1/94. Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-34-030, filed 11/16/87, effective 1/1/88; 86-21-040 (Resolution No. 86-2), § 222-34-030, filed 10/10/86, effective 12/1/86. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-34-030, filed 8/3/82, effective 10/1/82; Order 263, § 222-34-030, filed 6/16/76.]

WAC 222-34-040 Site preparation and rehabilitation. *(1) Heavy equipment. Heavy equipment shall not be used in connection with site preparation or rehabilitation work:

- (a) When, because of soil moisture conditions or the type of soils, undue compaction or unnecessary damage to soil productivity would occur or erosion would result in damage to water quality; or
- (b) Within riparian management zones, Type A and B Wetlands, wetland management zones, or within 10 feet of the ordinary high-water mark of Type 4 and 5 Waters on slopes of 30 percent or less. On slopes greater than 30 percent heavy equipment shall not operate within 50 feet of Type 1 through 5 Waters unless a site specific plan has been approved by the department.
- *(2) Surface water drainage. Where site preparation or rehabilitation involves contouring or terracing of slopes, drainage ditches, or similar work:
- (a) The gradient of ditches or other artificial water courses in erodible soils shall not cause significant stream, lake, pond, or wetland siltation.

- (b) Ditches and other artificial water courses shall not discharge onto any road, landing or fill.
- (c) Ditches and other artificial water courses shall not be constructed to discharge onto the property of other parties without their consent.
- *(3) Stream channel alignment. Where work involves deepening, widening, straightening or relocating the channel; or bulkheading, riprapping or otherwise stabilizing the banks of a Type 1, 2 or 3 Water, the work shall be done only:
- (a) After consultation with any party having an appropriation permit or registered right to appropriate waters from the affected stream segment in cases of streams used for domestic water supplies.
- (b) Where no significant adverse effects on either the peak or minimum water levels or flows downstream can be expected.
- (c) In a manner not expected to result in long-term damage to public resources or to adjacent or downstream property.

(NOTE: OTHER LAWS AND REGULATIONS AND/OR PERMIT REQUIREMENTS MAY APPLY. SEE CHAPTER 222-50 WAC.)

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 93-12-001, § 222-34-040, filed 5/19/93, effective 6/19/93. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-20-021, § 222-34-040, filed 9/28/92, effective 10/29/92. Statutory Authority: RCW 76.09.040. 87-23-036 (Order 535), § 222-34-040, filed 11/16/87, effective 1/1/88. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-34-040, filed 8/3/82, effective 10/1/82; Order 263, § 222-34-040, filed 6/16/76.]

WAC 222-34-050 Urban and other lands exempted from the reforestation requirements. (1) Those lands which an applicant has declared are to be converted to a nonforest use and are in fact converted within 3 years of completion of harvest.

- (2) Those lands the department determines should be exempted in whole or in part where the forest land has the likelihood of future conversion as defined in WAC 222-16-060. The applicant is encouraged to propose an alternate plan for reforestation on these lands.
- (3) Utility rights of way. Reforestation is not required for initial clearing or reclearing of utility rights of way in actual use for utility purposes or scheduled for construction of utility facilities within 10 years from the date of completion of harvest, provided that if the scheduled facility is not completed, the area shall be reforested within 1 year.
- (4) **Public lands.** Reforestation is not required on the following lands, unless required by regulation of the agency owning or acquiring the lands:
- (a) Lands owned in fee by a public agency which has budgeted for construction within 10 years a specific project inconsistent with commercial timber production.
- (b) Lands being acquired by public agency for construction within 10 years of a project inconsistent with timber production, if at the time of completion of harvest the public agency has entered into a binding contract for the purchase of the lands or initiated legal proceedings for the condemnation of the lands.

[Statutory Authority: RCW 76.09.040, 76.09.050 and 34.05.350.91-23-052, § 222-34-050, filed 11/15/91, effective 12/16/91. Statutory Authority: RCW 76.09.040. 88-19-112 (Order 551, Resolution No. 88-1), § 222-34-050, filed

9/21/88, effective 11/1/88; 86-21-040 (Resolution No. 86-2), § 222-34-050, filed 10/10/86, effective 12/1/86; Order 263, § 222-34-050, filed 6/16/76.]

Chapter 222-38 WAC FOREST CHEMICALS

WAC 222-38-010 Policy—Forest chemicals. 222-38-020 Handling, storage, and application of pesticides. 222-38-030 Handling, storage, and application of fertilizers. Handling, storage, and application of other forest chemicals.

Reviser's note: For an explanation of the rules marked with an asterisk (*), see WAC 222-12-010.

WAC 222-38-010 Policy—Forest chemicals. Chemicals perform important functions in forest management. The purpose of these regulations is to regulate the handling, storage and application of chemicals in such a way that the public health, lands, fish, wildlife, aquatic habitat, and water quality will not be endangered by contamination. This section in no way modifies the state department of agriculture regulations governing chemicals.

(NOTE: OTHER LAWS AND REGULATIONS AND/OR PERMIT REQUIREMENTS MAY APPLY. SEE CHAPTER 222-50 WAC.)

[Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-38-010, filed 7/2/92, effective 8/2/92. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-38-010, filed 8/3/82, effective 10/1/82; Order 263, § 222-38-010, filed 6/16/76.]

WAC 222-38-020 Handling, storage, and application of pesticides. *(1) No pesticide leakage, contamination, pollution.

Transportation, handling, storage, loading, application, and disposal of pesticides shall be consistent with applicable label requirements and other state and federal requirements.

- *(2) Mixing and loading areas.
- (a) Mix pesticides and clean tanks and equipment only where any accidental spills would not enter surface water or wetlands.
- (b) Storage and loading areas should be located where accidental spillage of pesticides will not enter surface water or wetlands. If any pesticide is spilled, immediate appropriate procedures should be taken to contain it.
- (c) Use devices or procedures to prevent "back siphoning" such as providing an air gap or reservoir between the water source and the mixing tank.
- *(3) **Riparian management zone.** Pesticide treatments within the riparian management zone shall be by hand unless the department has approved a site specific plan with another method of treatment.
- *(4) Wetland management zone. Pesticide treatment within the wetland management zone shall be by hand unless the department has approved a site specific plan with another method of treatment.
 - *(5) Aerial application of pesticides.
- (a) To keep pesticides out of the water, leave a 50 foot buffer strip on all typed waters, except segments of Type 4 and 5 Waters with no surface water and other areas of open water, such as ponds or sloughs.

- (b) Apply the initial swath parallel to the buffer strip in (a) of this subsection unless a deviation is approved in advance by the department. Drift control agents shall be required adjacent to buffer strips. Avoid applications that might result in drift causing direct entry of pesticides into riparian management zones, Type A and B Wetlands, wetland management zones, and all typed waters, except segments of Type 4 and 5 Waters with no surface water.
- (c) Use a bucket or spray device capable of immediate shutoff.
- (d) Shut off spray equipment during turns and over open water.
- (e) Leave at least a 200 foot buffer strip around residences and 100 foot buffer strip adjacent to lands used for agriculture unless such residence or farmland is owned by the forest landowner or the aerial application is acceptable to the resident or landowner.
- (f) The landowner shall identify for the operator the units to be sprayed and the untreated areas within the units with appropriately marked aerial photos or detailed planimetric maps. Before application of the pesticide an over-flight of the area shall be made by the pilot with the marked photos or maps.
- (g) Aerial chemical application areas shall be posted by the landowner by signing at significant points of regular access at least 5 days prior to treatment. Posting shall remain at least 15 days after the spraying is complete. The department may require an extended posting period in areas where human use or consumption of plant materials is probable. Posting at formal, signed trailheads that are adjacent to aerially treated units is required. The signs will contain the name of the product used, date of treatment, a contact telephone number, and any applicable restrictions.
- *(6) Ground application of pesticides with power equipment.

Leave a 25-foot buffer strip on each side of Type A or B Wetlands and all typed waters, except segments of Type 4 and 5 Waters with no surface water.

*(7) Hand application of pesticides.

Apply only to specific targets, such as vegetation, trees, stumps, and burrows, or as bait or in traps.

- *(8) Limitations on application. Pesticides shall be applied only in accordance with all limitations:
- (a) Printed on the United States Environmental Protection Agency container registration label, and/or
- (b) Established by regulation of the state department of agriculture.
- (c) Established by state and local health departments (in municipal watersheds).
- (d) Established by the Federal Occupational Safety and Health Administration, or the state department of labor and industries, as they relate to safety and health of operating personnel and the public.
- (e) The department or the department of agriculture may suspend further use of any equipment responsible for chemical leakage until the deficiency has been corrected to the satisfaction of the department suspending its usage.
- *(9) Container disposal. Pesticide containers shall be either:

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- (a) Removed from the forest and disposed of in the manner consistent with label directions; or
- (b) Removed and cleaned for reuse in a manner consistent with any applicable regulations of the state department of agriculture or the state or local health departments.
- *(10) **Daily records aerial application of pesticides.** On all aerial applications of pesticides, the operator shall maintain for 7 years daily records of spray operations as required by the state department of agriculture WAC 16-228-190.
- *(11) **Reporting of spills.** All potentially damaging chemical spills shall be immediately reported to the department of ecology. Emergency telephone numbers for reporting spills shall be available at the department's regional offices.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091, § 222-38-020, filed 12/3/97, effective 1/3/98; 93-12-001, § 222-38-020, filed 5/19/93, effective 6/19/93. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-38-020, filed 7/2/92, effective 8/2/92. Statutory Authority: RCW 76.09.040. 88-19-112 (Order 551, Resolution No. 88-1), § 222-38-020, filed 9/21/88, effective 11/1/88; 87-23-036 (Order 535), § 222-38-020, filed 11/16/87, effective 11/1/88. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-38-020, filed 8/3/82, effective 10/1/82; Order 263, § 222-38-020, filed 6/16/76.]

- WAC 222-38-030 Handling, storage, and application of fertilizers. *(1) Storage and loading areas. Storage and loading areas should be located where accidental spillage of fertilizers will not enter surface water or wetlands. If any fertilizer is spilled, immediate appropriate procedures shall be taken to contain it.
- *(2) **Riparian management zone.** Fertilizer treatments within a riparian management zone shall be by hand unless the department has approved a site specific plan with another method of treatment.
- *(3) Wetland management zone. Fertilizer treatments within a wetland management zone shall be by hand unless the department has approved a site specific plan with another method of treatment.
 - *(4) Aerial application of fertilizer.
- (a) Proposed fertilization units shall be planned to avoid and to minimize the direct or indirect introduction of fertilizer into waters and wetlands.
- (b) Leave a 25 foot buffer on all Type 1, 2, and 3 Waters, except as noted in (f) of this subsection.
- (c) When the helicopter flight path during fertilizer application is parallel to a water course or the WMZ edge, the centerline of the initial swath should be adjusted to prevent direct application within the buffers or WMZs.
- (d) Leave at least a 200 foot buffer strip around residences and a 100 foot buffer strip adjacent to lands used for agriculture unless such residence or farmland is owned by the forest landowner or the aerial application is acceptable to the resident or landowner.
- (e) The landowner shall identify for the operator the units to be fertilized and the untreated areas within the units with appropriately marked aerial photos or detailed planimetric maps. Before application of the fertilizer, an over-flight of the area shall be made by the pilot with the marked photos or maps.

- (f) Where the department has been provided information by the department of ecology indicating that water quality in downstream waters is likely to be impaired by entry of fertilizer into waters, such waters shall be protected by site specific conditioning.
- *(5) Ground and hand application of fertilizers. Prevent fertilizer from entering Type A and B Wetlands and all typed waters, except segments of Type 4 and 5 Waters with no surface water.
- *(6) **Reporting of fertilizer spills.** All fertilizer spills involving streams, lakes, wetlands, or other waters of the state shall be immediately reported to the department of ecology. Emergency telephone numbers for reporting spills shall be available at the department's regional offices.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 93-12-001, § 222-38-030, filed 5/19/93, effective 6/19/93. Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-38-030, filed 7/2/92, effective 8/2/92.]

WAC 222-38-040 Handling, storage, and application of other forest chemicals. *(1) Waters and wetlands. Do not allow direct entry of other forest chemicals into any typed waters, except segments of Type 4 and 5 Waters with no surface water, or Type A or B Wetlands.

- *(2) Storage, mixing, and loading areas.
- (a) Mix other forest chemicals and clean tanks and equipment only where any accidental spills would not enter surface water or wetlands.
- (b) Storage and loading areas should be located where accidental spillage of other forest chemicals will not enter surface water or wetlands. If any chemical is spilled, immediate appropriate procedures should be taken to contain it.
- (c) Use devices or procedures to prevent "back siphoning" such as providing an air gap or reservoir between the water source and the mixing tank.
- (d) Water protection requirements in subsection (1) of this section may be waived when emergency use of fire retardants is necessary to control wildfire.

[Statutory Authority: RCW 76.09.040, 76.09.050 and chapter 34.05 RCW. 92-15-011, § 222-38-040, filed 7/2/92, effective 8/2/92.]

Chapter 222-42 WAC SUPPLEMENTAL DIRECTIVES

WAC

222-42-010

Supplemental directives.

WAC 222-42-010 Supplemental directives. (1) Purpose of supplemental directives. The department may issue supplemental directives to the forest landowner, timber owner and operator, advising them to take or not take as part of any forest practice operations specified actions the department determines to be preferred courses of action or minor changes in the operation to provide greater assurance that the purposes and policies set forth in RCW 76.09.010 of the act will be met.

- (2) Content of supplemental directives. Supplemental directives shall indicate the reason for their issuance.
- (3) Form, service. All supplemental directives shall either be in writing, or be confirmed in writing. The supple-

mental directive shall be given to the operator and a copy mailed promptly to the forest landowner and to the timber owner if different than the forest landowner.

- (4) **Directive constitutes approval.** No other approval of the department shall be necessary to conduct forest practice operations in compliance with the terms of a supplemental directive.
- (5) **Informal discussions.** The department shall provide an opportunity for an informal discussion before issuing, withdrawing or modifying a supplemental directive.

[Order 263, § 222-42-010, filed 6/16/76.]

Chapter 222-46 WAC CONSULTATION AND ENFORCEMENT

WAC	
222-46-010	Policy—Enforcement.
222-46-015	Enforcement within the CRGNSA special management
	area.
222-46-020	Informal conferences.
222-46-030	Notice to comply.
222-46-040	Stop work orders.
222-46-050	Corrective action.
222-46-060	Civil penalties.
222-46-065	Base penalty schedule.
222-46-070	Injunctions, civil suits, disapprovals.
222-46-080	Criminal penalty.

WAC 222-46-010 Policy—Enforcement. It is the policy of the act and the board to encourage informal, practical, result-oriented resolution of alleged violations and actions needed to prevent damage to public resources. It is also the policy of the act and the board to provide, consistent with the principles of due process, effective procedures for enforcement. It is the policy of the board to use a progressive approach to enforcement, and civil penalties should be one of the least used enforcement mechanisms; such an approach usually begins with consultation and voluntary efforts to achieve compliance while generally reserving civil penalties to more serious infractions. This part of these regulations provides the following enforcement procedures: Informal conferences; notices to comply; stop work orders; corrective actions by the department; civil penalties; injunctions and other civil judicial relief; and criminal penalties. Civil penalties shall be appropriate to the violation or its potential to damage public resources.

[Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, § 222-46-010, filed 12/20/93, effective 1/1/94. Order 263, § 222-46-010, filed 6/16/76.]

WAC 222-46-015 Enforcement within the CRGNSA special management area. The department shall administer and enforce the forest practices regulations, including the requirement that the CRGNSA guidelines apply to all forest practices in the SMA, in cooperation with the U.S. Forest Service and the Columbia River Gorge commission.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 98-07-047, § 222-46-015, filed 3/13/98, effective 5/1/98.]

WAC 222-46-020 Informal conferences. (1) Opportunity mandatory. The department shall afford the operator and/or a designated representative reasonable opportunities to discuss proposed enforcement actions at an informal con-

ference prior to taking further enforcement action, unless the department determines that there may be imminent damages to the public resource. Informal conferences may be used at any stage in enforcement proceedings, except that the department may refuse to conduct informal conferences with respect to any matter then pending before the appeals board or a court.

- (2) **Reports required.** Department personnel in attendance at informal conferences shall keep written notes of the date and place of the conference, the persons in attendance, the subject matter discussed, and any decisions reached with respect to further enforcement action. Copies of the conference notes shall be forwarded to the landowner and the timber owner.
- (3) **Records available.** Copies of written notes shall be sent to each participant in the conference, be kept in the department files until one year after final action on the application involved, and be open to public inspection.
- (4) Local government entity conditions. If the proposed enforcement actions involve conditions imposed pursuant to WAC 222-20-040(3), then the local government entity shall be involved in the informal conference.

[Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, § 222-46-020, filed 12/20/93, effective 1/1/94. Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 93-12-001, § 222-46-020, filed 5/19/93, effective 6/19/93. Statutory Authority: RCW 76.09.040, 76.09.050 and 34.05.350. 91-23-052, § 222-46-020, filed 11/15/91, effective 12/16/91; Order 263, § 222-46-020, filed 6/16/76.]

WAC 222-46-030 Notice to comply. If a violation, a deviation, material damage or potential for material damage to a public resource has occurred and the department determines that a stop work order is unnecessary, then the department shall issue and serve upon the operator and/or land-owner a notice which will clearly set forth:

- (1)(a) The specific nature, extent, and time of failure to comply with the approved application; or identifying the damage or potential damage; and/or
- (b) The relevant provisions of the Forest Practices Act or of the forest practices regulations relating thereto;
- (2) **The right** of the operator, landowner, or timber owner to a hearing before the department; and
- (3) The specific course of action ordered by the department to be followed by the operator to correct such failure to comply and to prevent, correct and/or compensate for material damage to public resources which resulted from any violation, unauthorized deviation, or willful or negligent disregard for potential damage to a public resource; and/or those courses of action necessary to prevent continuing damage to public resources where the damage is resulting from the forest practice activities but has not resulted from any violation, unauthorized deviation, or negligence.
- (4) Local government entity conditions. If the notice to comply involves a condition imposed pursuant to WAC 222-20-040(3), then the specific course of action ordered by the department shall include a requirement that the operator obtain approval of the local government entity of the action to be taken.
- (5) **The department** shall mail a copy of the notice to comply to the forest landowner and the timber owner at the addresses shown on the application, showing the date of ser-

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vice upon the operator. The department shall also mail a copy to the local government entity if a condition imposed pursuant to WAC 222-20-040(3) is involved.

Such notice to comply shall become a final order of the department: Provided, That no direct appeal to the appeals board will be allowed from such final order. Such operator shall undertake the course of action so ordered by the department unless, within fifteen days after the date of service of such notice to comply, the operator, forest landowner, or timber owner, shall request the department in writing to schedule a hearing. If so requested, the department shall schedule a hearing on a date not more than twenty days after receiving such request. The local government entity shall participate in the hearing if a condition imposed pursuant to WAC 222-20-040(3) is involved. Within ten days after such hearing, the department shall issue a final order either withdrawing its notice to comply or clearly setting forth the specific course of action to be followed by such operator. Such operator shall undertake the course of action so ordered by the department unless within thirty days after the date of such final order, the operator, forest landowner, or timber owner appeals such final order to the appeals board. No person shall be under any obligation under this section to prevent, correct, or compensate for any damage to public resources which occurs more than one year after the date of completion of the forest practices operations involved exclusive of reforestation, unless such forest practices were not conducted in accordance with forest practices rules: *Provided*, That this provision shall not relieve the forest landowner from any obligation to comply with forest practices rules and regulations pertaining to providing continuing road maintenance. No action to recover damages shall be taken under this section more than two years after the date the damage involved occurs.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW. 97-24-091, § 222-46-030, filed 12/3/97, effective 1/3/98. Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, § 222-46-030, filed 12/20/93, effective 1/1/94. Statutory Authority: RCW 76.09.040, 76.09.050 and 34.05.350. 91-23-052, § 222-46-030, filed 11/15/91, effective 12/16/91; Order 263, § 222-46-030, filed 6/16/76.]

WAC 222-46-040 Stop work orders. (1) The department shall have the authority to serve upon an operator a stop work order which shall be a final order of the department if:

- (a) There is any violation of the provisions of the Forest Practices Act or these regulations; or
- (b) There is a deviation from the approved application; or
- (c) Immediate action is necessary to prevent continuation of or to avoid material damage to a public resource.
 - (2) The stop work order shall set forth:
- (a) The specific nature, extent, and time of the violation, deviation, damage, or potential damage;
- (b) An order to stop all work connected with the violation, deviation, damage, or potential damage;
- (c) The specific course of action needed to correct such violation or deviation or to prevent damage and to correct and/or compensate for damage to public resources which has resulted from any violation, unauthorized deviation, or willful or negligent disregard for potential damage to a public resource. The stop work order shall also set forth those courses of action necessary to prevent continuing damage to

public resources where the damage is resulting from the forest practice activities but has not resulted from any violation, unauthorized deviation, or negligence. If the stop work order involves a condition imposed pursuant to WAC 222-20-040(3), then the specific course of action ordered by the department shall include a requirement that the operator obtain approval of the local government entity of the action to be taken.

(d) The stop work order shall also set forth the right of the operator to a hearing before the appeals board.

The department shall immediately file a copy of such order with the appeals board and mail a copy thereof to the timber owner and forest landowner at the addresses shown on the application. The department shall also mail a copy to the local government entity if a condition imposed pursuant to WAC 222-20-040(3) is involved.

The operator, timber owner, or forest landowner may commence an appeal to the appeals board within fifteen days after service upon the operator. If such appeal is commenced, a hearing shall be held not more than twenty days after copies of the notice of appeal were filed with the appeals board. Such proceeding shall be a contested case within the meaning of chapter 34.05 RCW.

The operator shall comply with the order of the department immediately upon being served, but the appeals board if requested shall have authority to continue or discontinue in whole or in part the order of the department under such conditions as it may impose pending the outcome of the proceeding.

[Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, § 222-46-040, filed 12/20/93, effective 1/1/94. Statutory Authority: RCW 76.09.040, 76.09.050 and 34.05.350. 91-23-052, § 222-46-040, filed 11/15/91, effective 12/16/91; Order 263, § 222-46-040, filed 6/16/76.]

WAC 222-46-050 Corrective action. (1) Normal time schedule.

- (a) Written notice. If an operator fails to undertake and complete any course of action with respect to a forest practice, as required by a final order of the department or a final decision of the appeals board or any court pursuant to RCW 76.09.080 and 76.09.090 of the Forest Practices Act, the department may determine the cost thereof and give written notice of such cost to the operator, the timber owner and the owner of the forest land upon or in connection with which such forest practice was being conducted.
- (b) Failure to act. If such operator, timber owner, or forest landowner fails within 30 days after such notice is given to undertake such course of action, or having undertaken such course of action fails to complete it within a reasonable time as set forth by the department, the department may expend any funds available to undertake and complete such course of action and such operator, timber owner, and forest landowner shall be jointly and severally liable for the actual, direct cost thereof, but in no case more than the amount set forth in the notice from the department.
- (c) Failure to pay. If not paid within 60 days after the department completes such course of action and notifies such forest landowner in writing of the amount due, such amount shall become a lien on such forest land and the department

may collect such amount in the same manner provided in chapter 60.04 RCW for mechanics' liens.

(2) Immediate corrective action. When the operator has failed to obey a stop work order issued under the provisions of RCW 76.09.080, the department may take immediate action to prevent continuation of or avoid material damage to public resources. If a final order or decision fixes liability with the operator, timber owner, or forest landowner, they shall be jointly and severally liable for such emergency costs which may be collected in the manner provided for in RCW 76.09.120.

[Order 263, § 222-46-050, filed 6/16/76.]

WAC 222-46-060 Civil penalties. (1) Amount of penalty. Every person who violates any provisions of RCW 76.09.010 through 76.09.280 or of the forest practices rules adopted pursuant thereto, or who converts forest land to a use other than commercial timber operation within three years after completion of the forest practice without the consent of the county, city, or town, shall be subject to a penalty in an amount of not more than ten thousand dollars for each such violation. Each and every such violation shall be a separate and distinct violation. In case of a failure to comply with a stop work order, every day's continuance thereafter shall be a separate and distinct violation.

- (2) Penalty assessments shall consider the following:
- (a) Repairability of the adverse effect from the violation;
- (b) Whether the violation of the act or rules was intentional;
 - (c) Cooperation with the department;
 - (d) Previous violation history;
- (e) Severity of the impact or the potential for material damage to public resources; and
- (f) The extent to which a penalty to be imposed on a forest landowner for a forest practice violation committed by another should be reduced because the owner was unaware of the violation and did not receive substantial economic benefits from the violation.
- (3) Calculation of penalty. The department shall evaluate any violation to determine if a civil penalty is warranted. When penalties are to be assessed they shall be calculated using the following process:
 - (a) Determine the base penalty; see WAC 222-46-065.
- (b) The penalty may be adjusted using factors specific to the incident and the site. The following additional factors will be independently considered and added to the base penalty to calculate the civil penalty:
 - (i) Repairability:

Repairability shall be based on the length of time natural restoration or implementation of a restoration plan will take and whether repair can be achieved. The penalty will be substantially increased when natural restoration will not occur within three years and the damage cannot be effectively corrected. For this factor, up to double the base penalty may be added to the penalty.

(ii) Intention:

In making a determination of intent, the department shall consider, but not be limited to, the following considerations: The foreseeability of the violation; whether precautions were taken to avoid the violation; whether an informal conference

or enforcement action was served on the violator prior to the violation. For this factor, up to double the base penalty may be added to the penalty.

(iii) Cooperation:

The department shall consider whether the violator did or did not make any attempt to correct the problem. Timeliness of action(s) and/or ignoring or evading agency contacts or directives shall determine if the penalty shall be increased. For this factor, up to double the base penalty may be added to the penalty.

(iv) Previous violation(s):

The department shall consider whether the violator has previous violations of a forest practice rule or regulation as documented in an enforcement action. The department may consider company organizations and assignment of operational responsibilities when evaluating previous violations. A history of violations with adverse impacts or potential for adverse impacts or that shows a pattern of ignoring the rules or the act, shall result in a substantially larger penalty.

Enforcement actions for the purposes of this section shall include notices to comply, stop work orders, civil penalties, and criminal citations when those enforcement actions are associated with forest practice violations. For this factor, up to quadruple the base penalty may be added to the penalty.

(v) Severity:

The department shall adjust the penalty based on the extent and magnitude of the damage or potential damage to public resources. For this factor, up to quadruple the base penalty may be added to the penalty.

(vi) Landowner involvement:

If in the opinion of the department, the landowner exercised reasonable prudence in the development of timber sale contracts or supervision of the forest practice operations, was unaware of the forest practice violation, and the landowner received no substantial economic benefit from the violation, then the landowner generally would not be assessed a civil penalty.

- (c) In accordance with RCW 76.09.170, the penalty may not exceed ten thousand dollars for each and every violation.
- (d) The department shall determine whether all or a portion of the penalty should be assessed against the operator, landowner, and/or timber owner. The department should consider the responsible party, the degree of control, the sophistication of the party and whether different parties conducted different violations.
- (4) Other participants. Every person who through an act of commission or omission procures, aids or abets in the violation shall be considered to have violated the provisions of this section and shall be subject to the penalty provided for in this section.
- (5) Government employees. No penalty shall be imposed under this section upon any governmental official, an employee of any governmental department, agency, or entity, or a member of any board created by the act for any act or omission in his/her duties in the administration of the act or of these rules.
- (6) Written notice. The penalty shall be imposed by a notice in writing, either by certified mail with return receipt requested or by personal service, to the person incurring the

same from the department describing the violation with reasonable particularity.

- (7) Remission or mitigation. Within fifteen days after the notice is received, the person incurring the penalty may apply in writing to the department's manager of the region in which the penalty was issued, for the remission or mitigation of such penalty. Upon receipt of the application, the department may remit or mitigate the penalty upon whatever terms the department in its discretion deems proper: Provided, That the department deems such remission or mitigation to be in the best interests of carrying out the purposes of the act. The department shall have authority to ascertain the facts regarding all such applications in such reasonable manner and under such rules as they may deem proper. The reviewer may reduce, dismiss or not change the civil penalty. Within fifteen days of the completion of the regional review, the person incurring the penalty may apply in writing to the supervisor of the department for further review.
- (8) **Right of appeal.** Any person incurring any penalty hereunder may appeal the same to the forest practices appeals board. Such appeals shall be filed within thirty days of receipt of notice imposing any penalty unless an application for remission or mitigation is made to the department. When such an application for remission or mitigation is made, such appeals shall be filed within thirty days of receipt of notice from the department setting forth the disposition of the application for remission or mitigation. Concurrently with the filing of any appeal to the forest practices appeals board as provided in this section, the appellant shall file a copy of the appeal with the department region from which the penalty was issued and a copy with the office of the attorney general.
- (9) **Penalties due.** The penalty imposed under this section shall become due and payable thirty days after receipt of a notice imposing the same unless application for remission or mitigation is made or an appeal is filed. When such an application for remission or mitigation is made, any penalty incurred under this section shall become due and payable thirty days after receipt of notice setting forth the disposition of such application unless an appeal is filed from such disposition. Whenever an appeal of the penalty incurred is filed, the penalty shall become due and payable only upon completion of all administrative and judicial review proceedings and the issuance of a final order or decision confirming the penalty in whole or in part.
- (10) **Enforcement.** If the amount of any penalty is not paid to the department within thirty days after it becomes due and payable, the attorney general, upon the request of the department, shall bring an action in the name of the state of Washington in the superior court of Thurston county or of any county in which such violator may do business, to recover such penalty. In all such actions the procedure and rules of evidence shall be the same as an ordinary civil action except as otherwise provided in the Forest Practices Act. In addition to or as an alternative to seeking enforcement of penalties in superior court, the department may bring an action in district court as provided in Title 3 RCW, to collect penalties.
- (11) **Liens.** Penalties imposed under this section for violations associated with a conversion to a use other than commercial timber operation shall be a lien upon the real property of the person assessed the penalty. The department may col-

lect such amounts in the same manner provided in chapter 60.04 RCW for mechanics' liens.

[Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, § 222-46-060, filed 12/20/93, effective 1/1/94; Order 263, § 222-46-060, filed 6/16/76.]

WAC 222-46-065 Base penalty schedule. All other WAC or RCW violations not specifically mentioned in this list shall have a base penalty of five hundred dollars.

Violations of the following shall have a base penalty of two thousand dollars:

Statute or Rule	Description
WAC 222-20-010 RCW 76.09.050	Operation without an approved forest practices application/notification.
WAC 222-20-010 RCW 76.09.060	Willful misrepresentation of information on the forest practices application/notification.
WAC 222-20-050 RCW 76.09.060	Conversion of land without consent of the county, city or town.
WAC 222-20-040 WAC 222-20-060 RCW 76.09.060	Significant, in the opinion of the department, deviation from an approved forest practices application/notification.

[Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, § 222-46-065, filed 12/20/93, effective 1/1/94.]

WAC 222-46-070 Injunctions, civil suits, disapprovals. (1) The department may take any necessary action to enforce any final order or final decision, and may disapprove for up to one year any forest practices application or notification submitted by any person who has failed to comply with a final order or decision as set forth in RCW 76.09.080, 76.09.090, or 76.09.110, or has failed to pay any civil penalties as provided in RCW 76.09.170.

The department shall provide written notice of its intent to disapprove future applications or notifications, and shall forward copies of such notice to any affected landowner, timber owner or operator; such written notice shall occur within ninety days of the failure to comply with a final order or decisions as set forth in RCW 76.09.080, 76.09.090, or 76.09.110, or has failed to pay any civil penalties as provided in RCW 76.09.170. The disapproval period shall run from thirty days following the date of actual notice or from the date all appeals, if any, have been exhausted.

Any person provided notice of intent to disapprove an application or notification may seek review from the forest practices appeals board within thirty days of the date of notice.

(2) A county may bring injunctive, declaratory, or other actions for enforcement for forest practice activities within its jurisdiction in the superior court as provided by law against the department, the forest landowner, timber owner or operator to enforce the forest practices regulations or any final order of the department or the appeals board. No civil or criminal penalties shall be imposed for past actions or omissions if such actions or omissions were conducted pursuant to an approval or directive of the department. A county may not commence injunctions, declaratory actions, or other actions for enforcement under this subsection unless the department fails to take appropriate actions after ten days' written notice to the department by the county of a violation of the forest

practices rules or final orders of the department or the appeals board.

[Statutory Authority: RCW 76.09.040, 76.09.170 and chapter 34.05 RCW. 94-01-134, § 222-46-070, filed 12/20/93, effective 1/1/94; Order 263, § 222-46-070, filed 6/16/76.]

WAC 222-46-080 Criminal penalty. In addition to the penalties imposed pursuant to RCW 76.09.170 of the act, any person who conducts any forest practice or knowingly aids or abets another in conducting any forest practice in violation of any provisions of RCW 76.09.010 through 76.09.280 or 90.48.420, or these regulations, shall be guilty of a gross misdemeanor and upon conviction thereof shall be punished by a fine of not less than \$100.00 nor more than \$1,000.00, or by imprisonment for a term of not more than 1 year or by both fine and imprisonment for each separate violation. Each day upon which violation occurs shall constitute a separate violation.

[Order 263, § 222-46-080, filed 6/16/76.]

Chapter 222-50 WAC RELATIONSHIP TO OTHER LAWS AND REGULATIONS

WAC	
222-50-010	Policy.
222-50-020	Other agency requirements.
222-50-030	Interagency agreements.
222-50-040	Safety and health.
222-50-050	Forest fire prevention and suppression.
222-50-060	Other regulatory programs administered by the depart
	ment

WAC 222-50-010 Policy. A major policy of the Forest Practices Act and the board is to work toward a comprehensive, statewide system of laws and regulations for forest practices which avoids unnecessary duplication and provides for interagency input and cooperation to the extent that can be accomplished without interfering with the authority of the affected federal, state, regional and local agencies.

[Order 263, § 222-50-010, filed 6/16/76.]

WAC 222-50-020 Other agency requirements. (1) Many other laws and regulations apply to the conduct of forest practices. Other agencies administer some of these other regulatory programs. Permits may be required by such agencies prior to the conduct of certain forest practices. The department will maintain a list for distribution of state, regional and local regulatory programs that apply to forest practice operations. Affected parties are urged to consult with the specified agencies and independent experts with respect to the regulatory requirements shown on the list.

- (2) Hydraulics project approval law, RCW 75.20.100. A hydraulics project approval must be obtained from the department of fish and wildlife prior to constructing any form of hydraulic project or other work that will use, divert, obstruct, or change the natural flow or bed of any river or stream or that will utilize any of the waters of the state or materials from the stream beds. See RCW 75.20.100 and WAC 232-14-010.
- (3) Compliance with the Shoreline Management Act, chapter 90.58 RCW, is required. The Shoreline Management

Act is implemented by the department of ecology and the applicable local governmental entity. A substantial development permit must be obtained prior to conducting forest practices which are "substantial developments" within the "shoreline" area as those terms are defined by the Shoreline Management Act.

- (4) Nothing in these regulations is intended to interfere with any authority of the department of fish and wildlife to protect wildlife under any other statutes or regulations, or under any agreements with landowners.
- (5) Federal Endangered Species Act, 16 U.S.C. 1531 et seq., and other federal laws. The federal Endangered Species Act and other federal laws may impose certain obligations on persons conducting forest practices. Compliance with the Forest Practices Act or these rules does not ensure compliance with the Endangered Species Act or other federal laws.

[Statutory Authority: RCW 76.09.040 and chapter 34.05 RCW, 97-24-091, § 222-50-020, filed 12/3/97, effective 1/3/98; 93-12-001, § 222-50-020, filed 5/19/93, effective 6/19/93. Statutory Authority: RCW 76.09.040. 88-19-112 (Order 551, Resolution No. 88-1), § 222-50-020, filed 9/21/88, effective 11/1/88. Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-50-020, filed 8/3/82, effective 10/1/82; Order 263, § 222-50-020, filed 6/16/76.]

WAC 222-50-030 Interagency agreements. The board recommends that the department negotiate interagency agreements with other governmental agencies. The board further recommends that such agreements include, to the extent acceptable to the other agency, provisions specifying:

- (1) The law and regulations covered;
- (2) **Any geographical** or other limits on the authority and responsibility under the agreement;
- (3) **Priorities** and standards for resolution of any conflicts between such laws and regulations and the act and these regulations;
- (4) **Procedures** for administrative appeals of actions taken:
- (5) **Provisions for** continuing cooperation between the department and the other agency or agencies regarding interpretation of the laws and regulations involved;
- (6) **Procedures for** termination of the interagency agreement; and
- (7) **Procedures for** processing applications and notifications.

The department is directed to provide copies of all such agreements to the board, and to make known to the public that such interagency agreements exist.

[Statutory Authority: RCW 76.09.040, 76.09.050 and 34.05.350, 91-23-052, § 222-50-030, filed 11/15/91, effective 12/16/91; Order 263, § 222-50-030, filed 6/16/76.]

WAC 222-50-040 Safety and health. The forest practices regulations contained in chapters 222-24 through 222-38 WAC are automatically superseded to the extent inconsistent with any applicable safety regulations, or with any orders or directives having the force of law and based on any applicable safety regulations, including:

(1) Chapter 296-54 WAC (safety standards for logging operations, department of labor and industry's division of safety).

- (2) Chapter 296-24 WAC (general safety and health standards, department of labor and industry's division of safety).
- (3) All applicable Federal Occupational Safety and Health Administration regulations.
- (4) **Regarding aircraft,** chapters 12-24, 12-28, and 12-32 WAC (Washington aeronautics commission).
- (5) **Regarding explosives,** chapter 296-52 WAC (department of labor and industry) and all applicable federal regulations.
- (6) **Regarding chemicals,** chapter 16-228 WAC (department of agriculture) and all applicable federal regulations
- (7) All applicable state and local sanitation regulations relating to municipal watersheds and sources of domestic water supply.

In such cases of conflict, the department is authorized to seek from other agencies such waivers or modifications in the applicable safety and health regulations as may be necessary for the department to be able to fully enforce the forest practices regulations contained in chapters 222-24 through 222-38 WAC.

Applicants are cautioned that there may be additional safety and health laws and regulations that may be applicable in addition to those specifically listed above.

[Order 263, § 222-50-040, filed 6/16/76.]

WAC 222-50-050 Forest fire prevention and suppression. All laws and regulations relating to forest fire prevention and suppression apply in addition to these forest practices regulations and, in cases of conflict, supersede the forest practices regulations contained in chapters 222-24 through 222-38 WAC.

[Order 263, § 222-50-050, filed 6/16/76.]

WAC 222-50-060 Other regulatory programs administered by the department. The board recommends that, to the extent permitted by law and when necessary the department adopt regulations and policies under which approved applications and notifications can serve to eliminate or reduce the need for separate permits and approvals under regulatory programs administered by the department (such as the power driven machinery permits, RCW 76.04.275, dumping mill waste and forest debris permit, RCW 76.04.242, and surface mining permits, chapter 78.44 RCW) as applied to forest practices. The department is directed to notify the public of the existence of such regulations and policies.

[Statutory Authority: RCW 76.09.040 and 76.09.050. 82-16-077 (Resolution No. 82-1), § 222-50-060, filed 8/3/82, effective 10/1/82; Order 263, § 222-50-060, filed 6/16/76.]