



Forest Practices Rules Guidance

This guidance document is not a new law. This document is an interpretation of existing law, except as authorized by Idaho Code or incorporated into a contract.

This document provides guidance for [Rules Pertaining to the Idaho Forest Practices Act](#).

Authorities

Idaho Forest Practices Act ([Title 38, Chapter 13, Idaho Code](#)).

Rules Pertaining to the Idaho Forest Practices Act ([IDAPA 20.02.01](#))

Agency Contact

Forest Practices Program Manager

Operators, landowners, and timber owners are encouraged to contact a Private Forestry Specialist at the Idaho Department of Lands (IDL) for assistance in meeting forest practices standards <https://www.idl.idaho.gov/about-us/supervisory-areas>.

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I. History of Idaho Forest Practices Regulations

Forest regulation in Idaho began in 1904, when the first landowner fire control association financed forest fire protection through a common assessment of acreage owned. Within a year, the State and the newly formed U.S. Forest Service were partners with landowners and timber companies in "Cooperative Forest Fire Protection," known as the "Idaho Idea."

"Slash" from logging was recognized as an explosive forest fire hazard in the frequently dry summers. In 1907, the Fallon Fire Law requiring timber companies to burn logged-over "slashed" acres entered the Political Code of Idaho. This requirement was expected to reduce fire hazard and assist pioneer farmers in cleaning up cut-over land. Instead, burning often destroyed residual forest growth, including young trees, on land unsuitable for farming. These indiscriminate broadcast burns often escaped as well, becoming destructive forest fires (Incidentally, slash was defined as 4" and less, not 3").

The federal Clark-McNary Act of 1924, partly inspired the Idaho Forestry Act, passed in 1925. Like earlier regulation, the Idaho Forestry Act sought forest fire control through slash hazard reduction and quick fire suppression. Expanded elements of the Idaho Forestry Act provided for reforestation consideration, with the U.S. Forest Service cost-sharing for fire control and seedling production.

The Idaho legislature passed Idaho's first forest practices act, the Cooperative Sustained Yield District Law, in 1937. This law aimed to minimize damage from skid trails and required retained seed trees in the logged area or 200 ponderosa pine saplings or 300 white pine saplings per acre. The law also exempted the remaining merchantable volume of seed trees from county taxes. The Declaration of Purpose section noted the public benefits of productive forests, but did not require provisions for soil or water protection. The authors of Idaho's 1974 Forest Practices Act ignored this law; it was repealed in 1987 at the State Forester's request.

The federal Clean Water Act was enacted in 1972 and amended in 1977 to protect the nation's water resources and maintain their beneficial uses. The Clean Water Act authorized national pollution control programs, many aimed at reducing point source pollution. Congress recognized that non-point source pollution could not be addressed by a national program with one set of standards. Section 208 of the Clean Water Act authorizes and encourages state and local management of non-point pollution sources, which include forest practices.

Partly in response to Section 208, the Idaho State Legislature passed the "Idaho Forest Practices Act," April 2, 1974 (Chapter 197 Idaho Code, SB #1409 As Amended). While water quality was the initiating factor, the Idaho Legislature recognized the need to protect such public resources as soil, air, and wildlife and aquatic habitat. The economic value of forestlands and the need for ongoing growth and harvest was recognized. Similar laws passed, in Nevada, Washington, Oregon, and California at approximately the same time, were among the first comprehensive forest practice laws in the nation.

The Idaho Forest Practices Act (currently Title 38, Chapter 13) requires the Idaho State Board of Land Commissioners (Land Board) to adopt rules describing minimum forest practice standards. A Forest Practices Advisory Committee (FPAC) provides technical advice to the Idaho State Board of Land Commissioners through the IDL Director.

Oregon passed their Forest Practice Act of 1971 and in July 1972, the initial adoption of Oregon's forest practice rules occurred; by July 1974, Oregon had published the second revision of the rules. The 1974 proposed Idaho Forest Practices administrative rules were nearly identical (with the exception of stream definitions) to the Oregon rules from 1972 through 1974, which indicates there was significant

collaboration between the IDL and the Oregon Department of Forestry (ODF). The Idaho rules were published and effective October 14, 1975.

FPA administrative rules are identified in the Idaho Water Quality Standards as the approved best management practices (BMPs) for silvicultural activities. These standards also describe the feedback loop process where designated BMPs are applied on the ground, monitored for their effectiveness at protecting designated beneficial uses, and evaluated against appropriate criteria. BMPs are then modified as needed to maintain, enhance, or restore beneficial uses. Because of this adaptive management process, FPA administrative rules have undergone significant evolution over the years, with rule changes or additions being proposed by the Forest Practices Advisory Committee, approved by the State Board of Land Commissioners and adopted by the Legislature. Between 1975 and 2014, revisions occurred 18 times; on average every two years. One of the most significant revisions, in 1985, was the adoption of Oregon's 1974 Class I/Class II stream definition and shade retention structure. There have been only minor changes in this important rule since then, except for the promulgated 2014 streamside tree-retention rule for Class I streams.

II. Forest Practices Act Policy

It is the public policy of the State of Idaho, through the Idaho Department of Lands (IDL), to regulate forest practices to maintain and enhance natural resources. The Idaho Legislature passed the Forest Practices Act (FPA) to ensure the continuous growing and harvesting of forest tree species, while maintaining soil, air, water, vegetation, and wildlife and aquatic habitat.

The Forest Practices Advisory Committee (FPAC) includes forest landowners, operators, general public representatives and a fisheries biologist. Following public reviews under the Administrative Procedures Act, rules are amended and adopted by the State Board of Land Commissioners. The FPA administrative rules provide goals and direction to operators and landowners in order to meet the intent of the Act. IDL seeks voluntary cooperation and compliance with the Forest Practices Act. Operators are encouraged to comply with FPA standards, applying the best management practices (BMPs) outlined in the administrative rules <https://adminrules.idaho.gov/rules/current/20/200201.pdf>

and this corresponding guidance. More information can be found at:
<https://www.idl.idaho.gov/forestry/forest-practices-act>.

Forest practices information and education programs explain to operators and landowners the significance and proper implementation of BMPs:
<https://www.uidaho.edu/extension/idahoforestrybmps>.

Private Forestry Specialists (PFSs) should encourage voluntary compliance, helping the operator or landowner without dictating solutions.

Operators who do not meet FPA standards must improve on-the-ground practices. Operators should be informed of the need for proper BMP selection and implementation, and the consequences of substandard practices. IDL will take enforcement actions if an operator violates the FPA rules and does not take corrective measures. In all cases, corrective action or mitigation will be applied to bring substandard practices into compliance. IDL will not accept Forest Practice Notifications (notifications) from operators who fail to take corrective actions. Should operators habitually fail to comply with the rules, they will be required to post a bond prior to operating.

Operators, landowners, and timber owners are urged to contact an IDL PFS for assistance in meeting FPA standards <https://www.idl.idaho.gov/about-us/supervisory-areas>. The department will make every effort to respond promptly to any request for assistance or public complaint regarding forest practices.

III. Inspection Priorities

Ideally, every proposed forest practice should be visited. If this is not feasible, each Area Supervisor should set an inspection-rate goal with their PFS, targeting 50% of the notifications submitted to the Area Office. When inspecting operations, PFSs and Fire Wardens should conduct visits:

1. Before operations begin, if an operator has requested a pre-operational visit, to discuss potential problems and sensitive areas.
2. During operations, to see that all phases correctly implement the FPA rules and BMPs.
3. After completion of operations, to see that all harvesting and slash-management requirements have been met satisfactorily.

When prioritizing potentially inspected operations, prioritized focus should follow these guidelines (with red-font items receiving top priority levels):

1. Class I, Fish-Bearing

- a. SCAP SNF (*Supplemental Notification Form for stream channel alterations*)
- b. Variance
- c. TMDL Implementation plan Plan/CWEMP/ Site Specific BMPs?
- d. Site-specific prescription
- e. Steep sideslopes
- f. Unstable soils
- g. Clearcut/Heavy removal/Reforestation required
- h. Prescribed burn/slash treatment
- i. Operator with questionable history or Operator not known

2. Class II

- a. Site-specific prescription
- b. TMDL Implementation Plan/CWEMP/ Site Specific BMPs?
- c. Steep sideslopes
- d. Variance
- e. Prescribed burn/slash treatment
- f. Unstable soils
- g. Clearcut/Heavy removal/Reforestation required
- h. SCAP SNF
- i. Operator with questionable history or Operator not known

Stream Char. → Operation/Site Chars. ↓	<i>Class I</i> <i>Fish-Bearing</i>	<i>Class II</i>
SCAP SNF	Red	Green
Variance	Red	Orange
TMDL Implementation plan Plan/CWEMP	Red	Red
Site-specific prescription	Orange	Red
Steep sideslopes	Orange	Red
Unstable soils	Green	Green
Clearcut/Heavy removal/Reforestation	Green	Green
Prescribed burn/slash treatment	Green	Orange
Questionable/Unknown Operator	Blue	Blue

All priorities are subject to change based on the PFS's experience and discretion. Also, a complaint from the public can prioritize a needed inspection.

IV. Forest Practices Rules Guidance

This rule guidance is broken into **Rule Intent**, **Unsatisfactory Condition**, and **Guidance** sections, as applicable, for each rule.

The **Rule Intent** section defines the desired situation, action or behavior that must occur for compliance to exist. Through understanding rule requirements, the person administering rules can determine whether a given practice is necessary to meet the rule intent and achieve compliance.

The **Unsatisfactory Condition** section states what constitutes noncompliance. The observed field condition or administrative procedure should be compared with these statements to determine if the conditions are unsatisfactory.

The **Guidance** section gives further insight into rule application and enforcement. Occasionally, guidance will suggest repairs for unsatisfactory conditions. Where no damage has occurred, apply the rule as written. Guidance can give additional measures for mitigation in specific situations.

010. Definitions Guidance

20.02.01 – RULES PERTAINING TO THE IDAHO FOREST PRACTICES ACT

000. LEGAL AUTHORITY.

In accordance with Section 38-1304, Idaho Code, the Idaho Board of Land Commissioners has authority to adopt rules establishing minimum standards for the conduct of forest practices on forest land. (3-31-22)

001. SCOPE.

These rules constitute the minimum standards for the conduct of forest practices on forest land and describe administrative procedures necessary to implement those standards. (3-31-22)

002. -- 009. (RESERVED)

010. DEFINITIONS.

The terms “Best Management Practices (BMP),” “Department,” “Forest Land,” “Forest Practice,” “Forest Regions,” “Harvesting,” “Landowner,” “Operator,” “Rules,” “State,” and “Timber Owner,” have meanings provided in Section 38-1303, Idaho Code. In addition to the definitions set forth in the Act, the following definitions apply to these rules: (3-31-22)

GUIDANCE DEFINITIONS

In addition to the statute definitions, the following clarifying language defined in previous rule sets will continue to apply as guidance:

“Best Management Practices (BMP)” BMPs shall include, but not be limited to, those management practices included in these rules.

“Forest Land” Although not specifically addressed in the Act, county, municipal, and tribal lands can also be considered “forestlands.” This definition does not distinguish commercial from noncommercial forestland or set a minimum acreage for forestland.

“Director” or his designee. In notification/compliance documents also referred to as duly authorized representative.

“Forest Practice” (a) including felling, bucking yarding, decking, loading and hauling; road construction, improvement or maintenance including installation or improvement of bridges, culverts or structures which convey stream flows *within the operating area*; also including the clearing of forest land for conversion to non-forest uses when commercial product is removed; forest land conversions are not considered forest practices unless timber harvest or other forest practices (defined in this rule) occur. For further guidance, refer to Rule 020.02 and 020.06.

(b) construction, reconstruction, or maintenance of existing roads associated with commercial removal of forest tree species, including installation or improvement of bridges, culverts or structures which convey streams *not within the operating area*; use of a non publicly maintained road, in conjunction with a forest practice, shall subject the operator to applicable provisions of road construction and maintenance rules. See road construction and maintenance guidance (Rule 040); (c) reforestation; (d) chemicals used for managing forest trees or forest land; (e) or the use of prescribed fire on forest land; “forest practice does not include timber sale layout or removal of non-timber forest products which cannot normally be expected to result in damage to forest soils, timber, streams, or public resources.”

“Harvesting” Harvested timber used for barter is considered commercial removal since the timber is being sold for another product or service in lieu of monetary payment. Individuals

harvesting for personal use should be encouraged to voluntarily apply BMPs. They should also be informed that counties, cities and other state agencies may have regulations that apply in situations that the FPA does not, particularly near streams and other water bodies.

“Landowner” In the case of federal, state, tribal, and local government lands, the agency representative should be considered the landowner. A partnership, corporation or association may have several individuals with ownership rights.

“Operator” The operator is the party designated on the notification, responsible for following the Forest Practices Act regulations. The notification is a legal document which fixes the responsibility of compliance with the Forest Practices Act (FPA) and FPA administrative rules, and any associated legal liability. The operator, as listed on the notification, and as identified by a signature on the notification, is ultimately responsible for all forest practice activities and is legally liable for any repairs, fines, or legal action resulting from forest practices, if the operation is found to be in violation of the FPA rules. It is essential that the person whose name appears as the operator be aware of the responsibilities accepted; therefore, a signature from the operator must be obtained on the notification, even if the operator and the contractor are the same person or company.

01. Act. The Idaho Forest Practices Act, Title 38, Chapter 13, Idaho Code. (3-31-22)

02 Acceptable Tree Species. Any tree species normally marketable in the region, which are suitable to meet stocking requirements. Acceptable trees must be of sufficient health and vigor to assure growth and harvest. (3-31-22)

GUIDANCE 010.02

"Normally marketable" refers to commercial tree species suitable for forest product use. Acceptable trees must be undamaged and of sufficient vigor to assure survival and growth. The growing of nontypical species (ornamental, fruit, nut, Christmas trees) on forestland does not require a Forest Practice Notification under 020.06.a. Deciduous trees are acceptable if they are locally marketable, as determined by the Private Forestry Specialist, are undamaged and of sufficient vigor to assure survival and growth.

03. Additional Hazard. Debris, slashings, and forest fuel resulting from a forest practice. (3-31-22)

04. Average DBH. Average diameter in inches of trees cut or to be cut, measured at four and one-half (4.5) feet above mean ground level on standing trees. (3-31-22)

05. Board. The Idaho State Board of Land Commissioners or its designee. (3-31-22)

06. Buffer Strip. A protective area adjacent to an area requiring special attention or protection. (3-31-22)

07. Cable Yarding. Techniques that use winch systems, secured to stationary base machines, to transport fully or partially suspended logs or trees to landings. (3-31-22)

08. Chemicals. Substances applied to forest lands or timber to accomplish specific purposes and includes pesticides (as defined in Title 22, Chapter 34, Idaho Code), fertilizers, soil amendments, road dust abatement products and other materials that may present hazards to the environment. (3-31-22)

GUIDANCE 010.08

The term “pesticides” is an inclusive term defined in the Idaho Pesticide Law, Title 22, Chapter 34: “Pesticide” means, but is not limited to, (a) any substance or mixture of substances intended to prevent, destroy, control, repel or mitigate any insect, rodent, nematode, snail, slug, fungus, weed and any other form of plant or animal life or virus, except virus or fungus on or in living man or other animal, which is normally considered to be a pest or which the director may declare to be a pest, and (b) any substance or mixture of substances intended to be used as a plant regulator, defoliant or desiccant, and (c) any spray adjuvant.”

See road maintenance rules for road dust or road vegetation control chemicals.

- 09. Constructed Skid Trail.** A skid trail created by the deliberate cut and fill action of a dozer or skidder blade resulting in a road-type configuration. (3-31-22)

GUIDANCE 010.09

On steeper slopes and erosive soils, dropping the dozer or skidder blade or removing stumps can result in a "constructed" skid trail. Skidding taking place at slope gradient should minimize the potential of “constructing” skid trails.

- 10. Commercial Products.** Saleable forest products of sufficient value to cover cost of harvest and transportation to available markets. (3-31-22)

GUIDANCE 010.10

This definition refers to products stemming from tree wood and can include deciduous species. Commercial products include saw logs, peelers, poles, posts, pulp, chips, and fuel wood. Minor forest products such as cones, tree bark, berries, and greenery are *not* considered commercial products.

The trading or bartering of harvested logs, poles, posts, chips and fuel wood is considered commercial activity

- 11. Condition of Adjoining Area.** Those fuel conditions in adjoining areas that relate to spread of fire and to economic values of that area. (3-31-22)

- 12. Contaminate.** To introduce into the atmosphere, soil, or water sufficient quantities of substances that are injurious to public health, safety, or welfare; domestic, commercial, industrial, agricultural or recreational uses; or livestock, wildlife, fish or other aquatic life. (3-31-22)

- 13. Cross-Drain.** A diversion, depression, slope, or hump in a trail or road for the purpose of carrying surface water runoff into the vegetation, duff, ditch, or other dispersion area to minimize volume and velocity of runoff which might cause soil erosion. (3-31-22)

- 14. Cull.** Non-marketable, live, standing trees taller than twenty (20) feet. (3-31-22)

- 15. Deterioration Rate.** Rate of natural decomposition and compaction of fuel debris which decreases

the hazard and varies by site.

(3-31-22)

GUIDANCE 010.15

Deterioration rate refers to the time it takes slash to break down after a forest practice. Deterioration varies with species and site factors.

16. Director. The Director of the Idaho Department of Lands or his designee. (3-31-22)

GUIDANCE 010.16

Private Forestry Specialists, Fire Wardens, Resource Specialists or other department employees charged with FPA administration are considered "designees."

17. Emergency Forest Practice. A forest practice initiated during or immediately after a fire, flood, windthrow, earthquake, or other catastrophic event to minimize damage to forest lands, timber, or public resources. (3-31-22)

18. Fertilizers. Any substance or any combination or mixture of substances used principally as a source of plant food or soil amendment. (3-31-22)

19. Fire Trail. Access routes that are located and constructed in a manner to be useful in fire control efforts or fire spread deterrence in the hazard area. (3-31-22)

20. Fuel Quantity. The diameter, number of stems and predominant species to be cut or already cut, and the size of the continuous thinning block, all of which determine quantity of fuel per unit of area. (3-31-22)

GUIDANCE 010.20

Refer to Rule 070, Table II, Hazard Points.

21. Ground-based Equipment. Mobile equipment such as trucks, tractors, dozers, skidders, excavators, loaders, mechanized harvesters and forwarders used for forest practices. (3-31-22)

GUIDANCE 010.21

Classify tower yarders and other skyline operations stabilized with guy wires, operating from a road, as stationary yarding equipment. Consider excavators, jammers, tong- or choker-throwing equipment, or other wheeled or tracked equipment with short line yarding capabilities (<400 ft) stationary if operating from a road; otherwise this equipment is considered ground-based. Horses are animals, not equipment. Trucks used for skidding or any other Forest Practice besides hauling can be considered in violation of 030.04.a. and 030.07.b & c. if resource damage occurs.

22. Habitat Types. Forest land capable of producing similar plant communities at climax. (3-31-22)

REFERENCE 010.22

Cooper, et.al. 1991. Forest Habitat Types of Northern Idaho: a Second Approximation. Gen. Tech. Rep. INT-236. Ogden, UT: USDA, For. Serv., Int. Res. Sta. 143p.

Steele, et.al. 1981. Forest Habitat Types of Central Idaho. Gen. Tech. Rep. INT-114. Ogden, UT: USDA For. Serv., Int. Res. Sta. 138 pSteele, et.al. 1983. Forest Habitat Types of Eastern Idaho-Western Wyoming. Gen. Tech. Rep. INT-144. Ogden, UT: USDA For. Serv., Int. Res. Sta. 122p.

23. **Hazard.** Any vegetative residue resulting from a forest practice which constitutes fuel. (3-31-22)
24. **Hazard Offset.** Improvements or a combination of practices which reduce the spread of fire and increases the ability to control fires. (3-31-22)
25. **Hazard Points.** The number of points assigned to certain hazardous conditions on an operating area, to actions designed to modify those conditions or to actions by the operator, timber owner or landowner to offset those conditions on the same operating area. (3-31-22)
26. **Hazard Reduction.** The burning or physical reduction of slash by treatment in some manner which will reduce the risk from fire. (3-31-22)

GUIDANCE 010.24-26

For rules 010.24-26, Refer to Rule 070, Table I, Hazard Points; Table II, Hazard Points Worksheet; Table III, Hazard Offsets.

27. **Lake.** A body of perennial standing open water, natural or human-made, larger than one (1) acre in size. Lakes include the beds, banks or wetlands below the ordinary high water mark. Lakes do not include drainage or irrigation ditches, farm or stock ponds, settling or gravel ponds. Any reference in these rules to Class I streams also applies to lakes. (3-31-22)

GUIDANCE 010.27

Fish in private ponds are not considered a public resource, and these ponds are not considered lakes requiring Class I protection or site-specific riparian prescription.

For water bodies less than 1 acre in size, apply the Class II rules.

28. **Large Organic Debris (LOD).** Live or dead trees and parts thereof that are large enough; or longer than the channel width or twenty (20) feet; or sufficiently buried in the stream bank or bed to be stable during high flows. LOD creates diverse fish habitat and stable stream channels by reducing water velocity, trapping stream gravel and allowing scour pools and side channels to form. (3-31-22)
29. **Noncommercial Forest Land.** Habitat types not capable of producing twenty (20) cubic feet of wood fiber per acre per year. (3-31-22)
30. **Operating Area.** That area where a forest practice is taking place or will take place. (3-31-22)

GUIDANCE 010.40

The operating area is the physical area on the ground impacted by the forest practice, on which equipment has operated, material has been removed or material has been added. The legal description listed on a notification form should include all of the operation area.

31. Ordinary High Water Mark. That mark on all water courses, 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, as that condition exists on the effective date of this chapter, or as it may naturally change thereafter.

(3-31-22)

GUIDANCE 010.31

The Ordinary High Water Mark (OHW) is located at the bankfull stage (i.e., the edge of the bankfull channel), which is easiest to identify on riffles rather than pools. The bankfull stage can be identified using multiple indicators:

- The break in slope of the bank, which if a floodplain is present, is often located at the slope break between the channel and the flat depositional feature of the active floodplain.
- The height of depositional features when present (e.g., gravel bars), however it may be even higher than these features.
- The lower limit of certain perennial plant species, however vegetation is not always the most reliable indicator.

For streams or lakes with broad flood plains, braided channels, and meandering overflow channels, the high water mark may be a considerable distance from the main channel.

32. Outstanding Resource Water. A high-quality water, such as water of national and state parks and wildlife refuges and water of exceptional recreational or ecological significance, designated by the legislature. ORW constitutes as outstanding national or state resource that requires protection from nonpoint activities, including forest practices, which may lower water quality.

(3-31-22)

GUIDANCE 010.32

The legislature has not designated any ORWs where additional forest practice rules have been developed.

33. Prescribed Fire. The controlled application of fire to wildland fuels, in either their natural or modified state, under conditions of weather, fuel moisture and soil moisture that allow the fire to be confined to a predetermined area while producing the intensity of heat and rate of spread required to meet planned objectives.

(3-31-22)

GUIDANCE 010.33 The use of prescribed fire rules apply to the management of forestland only. Modified state means jackpot or slash piles resulting from harvest and slash management activities.

34. Present Condition of Area. The amount or degree of hazard present before a thinning operation commences.

(3-31-22)

35. Public Resource. Water, fish, wildlife, and capital improvements of the State or its political subdivisions. (3-31-22)

36. Reforestation. Establishment of an adequately stocked stand of trees of species acceptable to the Department to replace those removed by harvesting or a catastrophic event on commercial forest land. (3-31-22)

37. Relative Stocking. A measure of site occupancy calculated as a ratio of actual stand density to the biological maximum density for a given forest type. This ratio, expressed as a percentage, shows the extent to which trees use a plot of forestland. This term was used in the Class I tree retention rule (030.07.e.ii) and has been replaced with Weighted Tree Count as described in the same rule. (3-31-22)

GUIDANCE 010.48

Relative Stocking (RS) is a more robust measure of stand density which takes both stem size and stem frequency into account. RS is expressed as a percentage based on the theoretical biological maximum stocking levels for a given site. In the simplified application adopted in this rule, RS is still the biological basis for retention requirements and minimum harvest thresholds, but Weighted Tree Count (WTC) is used to attribute a RS value for each tree in a specified diameter class. The rule is applied regionally. There are many habitat types with different potential productivity lumped together into these regions. Because of this, it is possible that a site could have a calculated RS greater than 100.

Rule 030.07.e.ii contains subsections detailing WTC retention requirements per one hundred linear feet of SPZ, for five regions throughout the state. Rule 030.07.e.iii displays a chart for calculating WTC values of tallied trees in five distinct diameter classes.

No harvest is allowed within a 100' segment unless the WTC within 50' of the stream is above the cutting thresholds in 030.07.e.iv

For Reference: The formula for calculating RS is: $RS_i = (0.00545415 * di^{1.5}) / \text{Maximum RDsum}$, where: RS_i = Relative Stocking Value (individual tree), di = tree diameter (individual tree) and Maximum RD sum is the Theoretical maxima derived from actual Idaho riparian data. The Maximum RD sum is 82.3 for the region north of the Clearwater/Lochsa Rivers, 70.6 for the region between the Clearwater/Lochsa Rivers and the Salmon River, 58.8 for the region south of the Salmon River, and 52.9 for drier forests dominated by Douglas-fir and ponderosa pine.

38. Relief Culvert. A structure to relieve surface runoff from roadside ditches to prevent excessive volume and velocity. (3-31-22)

39. Slash. Any vegetative residue three inches (3") or less in diameter resulting from a forest practice or clearing of land. (3-31-22)

40. Site. An area with the combination of biotic, climatic, and soil conditions or ecological factors that create capacity for forest vegetation. (3-31-22)

41. Site Factor. A combination of average slope and predominant aspect of the operating area which relate to rate of fire spread. (3-31-22)

GUIDANCE 010.41

The site factor refers to the practices in Rule 070, Slashing Management.

42. Site-Specific Best Management Practice. A BMP that is adapted to and takes account of the

specific factors influencing water quality, water quality objectives, on-site conditions, and other factors applicable to the site where a forest practice occurs which has been approved by the Department or by the Board in consultation with the Department and the Forest Practices Advisory Committee. (3-31-22)

43. Size of Thinning Block. Acres of continuous fuel creating an additional hazard within an operating area. Distance between the perimeter of thinning blocks containing continuous fuel must be a minimum of six (6) chains apart to qualify as more than one (1) block. (3-31-22)

44. Snags. Dead, standing trees taller than twenty (20) feet. (3-31-22)

45. Soil Erosion. Movement of soils resulting from forest practices. (3-31-22)

46. Soil Stabilization. The minimizing of soil movement. (3-31-22)

47. Stream. A natural water course of perceptible extent with definite beds and banks which confines and conducts continuously or intermittently flowing water. Definite beds are defined as having a sandy or rocky bottom which results from the scouring action of water flow. Any reference in these rules to Class I streams applies to lakes. (3-31-22)

GUIDANCE 010.47

The definition of a stream here applies to surface waters only. One of the purposes of the Forest Practices Act is to protect "water resources and aquatic habitat," including lakes, ponds, and streams. "Sandy or rocky" bottom also includes mud, clay, or silt bottoms; i.e., a non-vegetated channel bottom.

Operators should be reminded that smaller streams are often dry during the summer months, but still receive the same protection as those with flowing water year-round. Some dry streams provide fish habitat during the wet season and therefore are designated as Class I.

Bogs, seeps, swamps, wet areas, springs, draws, or other sites where water is present are not considered streams. Rule 030.08.c. specifies the requirements for these areas.

a. Class I streams are important for the spawning, rearing or migration of fish. (3-31-22)

INTENT 010.47.a.

This classification for streams is based on use, with the intent of developing rules to ensure that impacts of forest practices on streams are compatible with the needs of fish populations. This rule set eliminates the Class I designation for domestic use because turbidity from sources other than forest practices are the primary influencer of domestic water quality.

GUIDANCE

The operator has the responsibility to indicate the correct stream class on the notification. The Private Forestry Specialist has the ability to make a final determination of stream classes on private lands.

Streams classified as Class I for fish use have documented past or present fish populations and are capable of sustaining fish spawning, rearing, or migration. Class I streams may be

intermittent. The following procedures were developed to help the Private Forestry Specialist classify streams in a consistent manner.

(1) Consult existing sources for fish population distribution when classifying streams. The Staff Offices in Coeur d'Alene and Boise keep records of fish distribution from the Idaho Department of Fish and Game, and federal fish and wildlife Services. Local landowners may have electronic maps or other sources of information documenting past or present fish populations. If existing sources can document past or present fish populations within the operation area, designate the stream as Class I.

(2) Field inspection is required where fish presence/absence is questionable or unknown. Research has shown that streams capable of supporting the spawning, rearing, and migration of trout (native salmonids) demonstrate the following characteristics:

- (a) Perennial surface flow (although some intermittent streams support fish spawning),
- (b) Sustained stream gradient (as measured with a clinometer) less than 22%, and
- (c) Gravel substrate.

Conduct field inspections during summer flow conditions when the water is clear and stream temperatures sustain fish activity. Start at the downstream end of the operating area and slowly walk upstream watching for fish movement. If direct observation reveals fish presence, designate the stream as Class I to the upstream extent of fish use or operating area, whichever comes first.

Consider natural migration barriers when conducting field inspections that may preclude fish use. Natural migration barriers include waterfalls and bedrock slides. Structures such as log jams and beaver dams are not migration barriers because fish can usually navigate around, over, or through these structures given adequate stream flow. Always check upstream of migration barriers for fish presence because viable fish populations are sometimes found upstream of natural migration barriers.

If fish are not normally present at the time of inspection, or unobservable due to water conditions, and a stream exhibits the characteristics of a Class I stream it should be treated as such, even if it is not on the map. In such a case, the Class I-Class II stream boundary may be determined by using the acreage breaks identified in the Class II stream definition (Rule 010.47.b).

The department's fisheries biologist is available for field consultation and/or stream classification training by request. Requests for field consultation or training should be directed to the IDL Interdisciplinary Team Fisheries Biologist by the Private Forestry Specialist or managing forester.

All known Class I streams should be designated on stream class maps. The maps must be updated as changes occur. The Private Forestry Specialists are responsible for keeping Area maps updated for private ownerships. The department's fisheries biologist has the responsibility of collecting Area map updates on a periodic basis and incorporating these changes in a statewide stream class map.

b. Class II streams are usually headwater streams or minor drainages that are used by only a few, if

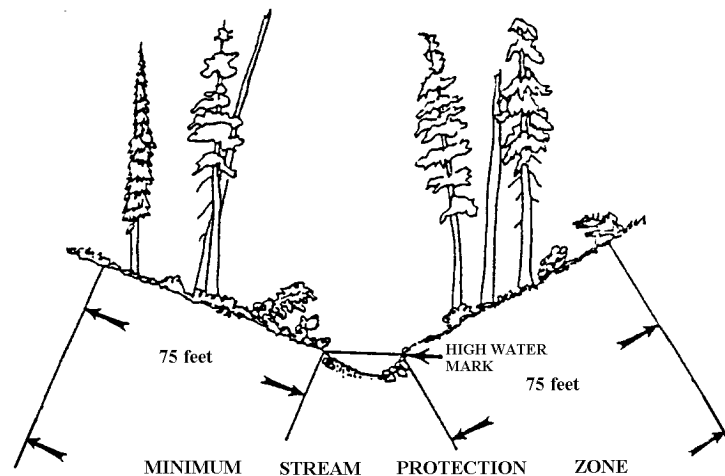
any, fish for spawning or rearing. Where fish use is unknown, consider streams as Class II where the total upstream watershed is less than two hundred forty (240) acres in the north forest region and four hundred sixty (460) acres in the south forest region. Their principal value lies in their influence on water quality or quantity downstream in Class I streams. (3-31-22)

GUIDANCE 010.47.b.

Class II stream designation is given to streams without proof of fish use and does not demonstrate the characteristics of a Class I stream. Class II stream flow may be intermittent. Where fish use is unknown, the rule attempts to provide guidance (watershed acres) to landowners/operators for determining the upstream extent of the stream network that fish are likely to use. Private Forestry Specialists are expected to make stream class determination based on direct observation and professional judgment and should not rely on the acreage breaks as an absolute standard.

c. Class I Stream Protection Zone (SPZ) is an area adjacent to a stream that is at least 75 feet wide on each side

CLASS 1 STREAM PROTECTION ZONE



CLASS 1 STREAM PROTECTION ZONE

(3-31-22)

INTENT 010.47.c.

Stream Protection Zones (SPZ) are areas adjacent to streams or lakes that include components (soils, rocks, vegetation, LOD, etc.) which provide beneficial functions to the water body.

SPZs are not intended to be “no touch zones,” but rather “carefully managed zones.”

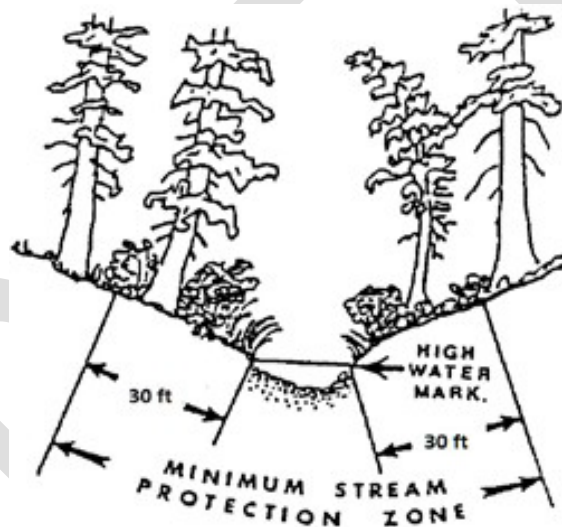
GUIDANCE

Consider the 75 feet to be a minimum distance; encourage operators to adopt varying SPZ widths where site-specific conditions warrant. At times, activities beyond 75 feet may need to be modified to protect the components of the SPZ, such as timber felling or road construction on very steep slopes. In situations requiring modification of activities greater than 75 feet from

the stream, enforcement action should focus on addressing impacts to SPZ components within the specified width of the SPZ.

For streams with broad flood plains, braided channels, and meandering overflow channels, the high water mark may be a considerable distance from the normal flow channel. Vegetated areas between the outermost ordinary high water marks on a braided channel stream should be considered part of the SPZ.

- d.** Class II Stream Protection Zone (SPZ) means the area encompassed by a minimum slope distance of thirty (30) feet on each side of the ordinary high water marks. (Figure 2.) For Class II streams that do not contribute surface flow into Class I streams, a variance to this requirement may be requested. In no case will this width be less than five (5) feet slope distance on each side of the ordinary high water marks. Operators must provide for soil stabilization and water filtering effects by leaving undisturbed soils in widths sufficient to prevent washing of sediment. (3-31-22)



INTENT 010.47.d.

Stream Protection Zones (SPZs) are areas adjacent to streams or lakes that include components (soils, rocks, vegetation, LOD, etc.) which provide beneficial functions to the water body.

SPZs are not intended to be “no touch zones,” but rather “carefully managed zones.”

GUIDANCE

Perennial or intermittent stream flow is not a factor in determining if a 30-foot SPZ is required. The determining factor is where Class II water flows and if that water will affect beneficial uses.

A given water course may exhibit alternating stream (bed and bank) and draw (no bank, vegetated bottom) segments. Draws that are connected above and below by Class II streams should be treated as Class II streams, with an appropriate SPZ width applied (5-30 feet).

48. Time of Year of Forest Practice. Parts of a year assigned hazard points when the forest practice takes place. Points are: October through December - two (2) points; August through September - four (4) points; January through April - seven (7) points; May through July - ten (10) points. (3-31-22)

49. Traction-Assisted Harvesting. Techniques that use winch systems to tether ground-based equipment to a stationary base for stabilizing and assisting steep-slope operation. Cable tension from the winch will be synchronized or automatically held constant. Enhanced traction for the equipment must minimize soil disturbance and risk of sediment delivery to streams. (3-31-22)

50. Watershed Advisory Group. A formal group of citizens that provides the Idaho Department of Environmental Quality with local public input and guidance regarding specific watersheds during watershed analysis and BMP development. (3-31-22)

011. -- 019. (RESERVED)

DRAFT

020. General Rules Guidance

020. GENERAL RULES.

01. Compliance. Operators must comply with practices contained within a rule to accomplish the purpose of the rule. (3-31-22)

a. If conditions of sites or activities require application of practices which differ from those prescribed by the rules, the operator must obtain a variance according to the following procedure: (3-31-22)

i. The operator must submit a written request for variance to the Department. The request must include a description of the site and particular conditions which necessitate a variance and a description of proposed practices which, if applied, will result in a violation of the rules. (3-31-22)

ii. The Department will evaluate the request and notify the operator in writing within fourteen (14) calendar days whether the variance is granted or denied. (3-31-22)

iii. All authorized variance practices must provide for results over the long term which are equivalent or better than those from rule to ensure site productivity, water quality and fish and wildlife habitat. A variance may be applied only at approved sites. (3-31-22)

INTENT 020.01.a.

A variance allows for an exception to the stated rule in a situation in which alternative practices (different than the rules) will provide equal or better protection of resources. Meeting the intent of a rule will be the overriding goal. Existing rules apply unless a variance has been requested by the operator and approved by the department. The approval of a variance is based on a finding that the prescribed alternative practice will result in meeting or exceeding the intent of the rule (i.e., meeting or exceeding the results of complying with the stated rule).

Both long-term and short-term impacts must be taken into account before the rule intent is judged as being met. Potential for future impacts must be evaluated when considering a variance. All variances are to be approved by the Area Manager or Resource Supervisor – Private Forestry for the relevant supervisory area.

UNSATISFACTORY CONDITIONS

Unsatisfactory conditions exist when additional required practices or other conditions, as stated on the variance form, have not been followed. Failure to obtain a variance for alternative practices, which do not comply with the FPA rules, is also an unsatisfactory condition.

GUIDANCE

This rule describes the variance procedure and specifies those conditions that must be met to obtain the variance. The operator should request a variance from the Private Forestry Specialist (PFS), then complete and submit the variance-request form. The PFS or Resource Supervisor-PF will then review the proposed alternative practice, and if approved the variance, the request form will be submitted to the Area Manager or Resource Supervisor-PF for review and final approval.

An approved variance must be obtained prior to implementation of an alternative practice. Variances will not be issued after unsatisfactory practices have occurred; however, if the alternative practice is to continue in another location within the operating area, a variance can

be granted provided the "equivalent or better" standard can be met for the practice in the new area.

Failure to obtain the proper variance will be cited as an unsatisfactory condition and may be cited as a Notice of Violation if significant resource damage has occurred. If an unsatisfactory condition is found, it is important that the operator understands when a variance is needed and how to request one.

b. Practices must also be in compliance with the Stream Channel Protection Act (Title 42, Chapter 38, Idaho Code); Idaho Water Quality Standards and Waste Water Treatment Requirements (Title 39, Chapter 1, Idaho Code); the Idaho Pesticide Law (Title 22, Chapter 34, Idaho Code), and the Hazardous Waste Management Act of 1983 (Title 39, Chapter 44, Idaho Code), and rules promulgated thereunder. (3-31-22)

INTENT 020.01.b.

To ensure compliance with other applicable state laws, rules, and regulations outside the regulatory authority of the Forest Practices Act or the department.

GUIDANCE

In a given situation, there may be laws and regulations other than the Forest Practices Act that apply to harvesting and forest management activities. Within the scope of their knowledge, Private Forestry Specialists should inform operators that other applicable laws may apply. If an operation is suspected of being out of compliance with known regulations, the practice should be referred to the appropriate agency for enforcement. While the department lacks regulatory authority to enforce these laws, a Notice of Violation (NOV) can be issued if appropriate and in conjunction or concurrent with another agency's enforcement case. Private Forestry Specialists should consult the Regulatory Program Manager prior to issuing NOVs in these situations.

c. Water may be diverted from a stream and used at any time to carry out Idaho forest practices and for forest road dust abatement, provided that: 1) The total daily volume diverted is no greater than two-tenths (0.2) acre-feet (65,170 gallons) from a single stream; and 2) The rate of diversion is no greater than twenty-five percent (25%) of the rate of flow then available in the stream at the point of diversion for these purposes. (3-31-22)

i. No person may, under this Section 020, divert water from an irrigation canal, irrigation reservoir, or other irrigation facility while water is lawfully diverted, stored, captured, conveyed, used or otherwise physically controlled by an irrigator, irrigation district or canal company. (3-31-22)

ii. No person may, under this Section 020, divert water from a stream within a water district, or from which an irrigation delivery entity diverts water, without first providing notice to the watermaster of the intent to divert. (3-31-22)

iii. Water diversion intakes used for diversions under Subsection 020.01 must be screened with a maximum screen mesh size as follows: 1) fish-bearing Class I streams: 3/32 inch, and 2) all other streams: 1/4 inch. (3-31-22)

INTENT 020.01.c.

FPAC added this rule to clarify water-diversion practices that are normally carried out during a forest practice. Paralleling a 2008 IDWR statute change, this rule allows operators and

landowners to divert water from a stream without obtaining a temporary water right (or permit).

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists if there is evidence that water diversion does not meet the criteria and limitations defined in this rule.

GUIDANCE

Private Forestry Specialists should be equipped to observe hose screen-mesh sizes and determine if the rate of water diversion is changing the rate of flow in the stream at the time of inspection. PFSs should also be aware of the type of waterway the water is being diverted from (e.g., an irrigation canal) so that illegal water diversion is not occurring.

d. Any alternative conservation measure having received a favorable Biological Opinion or Incidental Take Permit from the National Marine Fisheries Service or US Fish and Wildlife Service will be considered as complying with these rules. (3-31-22)

INTENT 020.01.d.

The objective of this rule paragraph is to preserve the water-quality and aquatic-habitat standards expressed in any formal agreement between a forestland owner and the US Fish & Wildlife Service and/or the National Marine Fisheries Service (NOAA Fisheries). Such an agreement must have successfully gone through the consultation process and received a favorable Biological Opinion from the pertinent Endangered Species Act regulatory federal agencies.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists if any of the requirements of minimum standards expressed in these FPA administrative rules are infringed and there is *no* formally approved agreement in place with these federal agencies.

GUIDANCE

Formal agreements of this nature, applicable to forestlands, are often titled *Incidental Take Permits, Incidental Take Statements, Safe Harbor Agreements, Conservation Agreements or Habitat Conservation Plans (HCPs)*.

02. Conversion of Forest Lands. Prior to converting forest lands to another use, the person converting the lands must file a written notification with the Department. These rules will continue to apply to the conversion and converting lands, except those relating to reforestation. On converted parcels larger than one (1) acre, acceptable vegetative cover sufficient to maintain soil productivity and minimize erosion must be planted. Cover must be established within one (1) year of forest practice completion, except that the Director may grant an extension of time if weather or other conditions interfere. Within three (3) years of forest practice completion, the Director will determine if the conversion has been accomplished by: (3-31-22)

- a.** The presence or absence of improvements necessary for use of land for its intended purpose; (3-31-22)
- b.** Evidence of actual use of the land for the intended purpose. (3-31-22)

- c. If the conversion has not been accomplished within three (3) years of harvest completion, supplemental reforestation Subsection 050.06 applies. (3-31-22)

INTENT 020.02

When landowners choose to convert their forestlands to some other land use, the intent of the FPA and its associated administrative rules is to protect water quality and promote soil stabilization and productivity during forest practice conversion operations. When the landowner converts to a non-forest use, criteria are given for making that conversion and reforestation is not required. All other rules apply. If the operator wishes to deviate from applicable rules, an approved variance is required. This rule requires reforestation within a reasonable time if land is harvested and not “converted” preventing a landowner from converting forestland to no use or using this rule to avoid reforestation requirements. Any change in land use must be accomplished within an established time frame.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when the site has not been re-vegetated according to the rule. If a site planned for conversion is not converted within the specified time frame and supplemental reforestation applies, cite this rule and Rule 050.06.

GUIDANCE

If a forest practice is not involved in the conversion to non-forest use, conversion activity is not regulated under the FPA (e.g., subdivision development where no commercial products are removed is not regulated, whereas a conversion from forestland to grazing land, involving the sale of timber is regulated).

The Private Forestry Specialist should refer to the notification to determine if a site is planned for conversion. Establishing cover means seeding or planting roads, trails, landings, and other heavily disturbed areas. Normally, this rule will not be cited in an NOV unless the site has not been re-vegetated. Other rules in violation will be cited as applicable.

The Private Forestry Specialist, in follow-up inspections, will look for evidence of the conversion indicated on the notification. The landowner must provide evidence of conversion either visually (e.g., homes, mine, new fencing, water development) or with written documentation (e.g., building permit, land use tax-change notice, approved agricultural conservation plan).

Conversion in SPZs can only occur under an approved variance. Such a variance should only be considered if some other resource protection jurisdiction (e.g., county planning and zoning) has regulatory responsibility for the new land use and approves site disturbing activities in the SPZ. Consult with the Regulatory Program Manager and local agencies for planned conversions in the SPZ.

Consider the conversion complete when conditions in the rule have been met (i.e., the land has been effectively converted; roads, trails and disturbed sites are stabilized) and no other forest practices will be conducted. Once conversion is successful, the Private Forestry Specialist should document that FPA jurisdiction has ended and no other FPA requirements apply.

03. Annual Review and Consultation. The Director will, at least annually, meet with other state agencies and the Forest Practices Advisory Committee and review recommendations for amendments to or repeal of these rules. He will then provide the Board a summary of any meetings, together with recommendations regarding

these rules.

(3-31-22)

04. Consultation. The Director may consult with other state agencies where expertise from such agencies would be helpful or necessary. (3-31-22)

a. These rules are approved best management practices under IDAPA 58.01.02, “Water Quality Standards.” The Water Quality Standards describe a procedure for modifying the practices based on monitoring and surveillance. The Director will review petitions from Idaho Department of Environmental Quality for changes or additions to these rules and make recommendations for modification to the Board. (3-31-22)

INTENT 020.04

The Forest Practices Act positions IDL as the lead agency for addressing forest practices issues of interest to other agencies; however, the Department of Environmental Quality (DEQ) and other parties can recommend FPA rule changes to FPAC. The FPA rules are recognized in DEQ’s Idaho Nonpoint Source Management Plan (approved by EPA) as the approved nonpoint-source water quality Best Management Practices (BMPs) for silvicultural activities.

GUIDANCE

An operator may not violate this rule. The department has the responsibility to forward requests for rule changes from DEQ, or other state agencies, to the Forest Practices Advisory Committee (FPAC).

05. Notification of Forest Practice. (3-31-22)

a. Before commencing a forest practice or a conversion of forest lands the operator must notify the Department as required in Paragraph 020.05.b. The notification may be provided by the timber owner or landowner. (3-31-22)

b. The notification required by Paragraph 020.05.a. must be on forms provided by the Department, will identify each forest practice to be conducted, and include the name and address of the operator, timber owner, and landowner; the legal description of the operating area; whether the forest practice(s) borders an outstanding resource water and other information the Department considers necessary for administration of the rules. No forest practice may begin until the applicable notification is formally accepted by the Department. No later than fourteen (14) calendar days after formal acceptance of the notice, the Department will send a copy of the notice to the operator, timber owner, and landowner. (3-31-22)

INTENT 020.05.b.

To ensure that the **operator** (or the timber owner or landowner who chooses to assume the role of the **operator**) gives prior notice of any forest practice activity, so the department may address concerns, problem areas, or other factors.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when a forest practice begins before the department has accepted the notification.

GUIDANCE

The person or company assuming the responsibility of being the **operator**, and the entity assuming the responsibility of the **contractor**, must both sign the agreement/notification in the

appropriate signatory blocks, even if they are the same entity. If a company, LLC or trust is the **operator**, a company representative must sign.

If an operator fails to provide notification, report an unsatisfactory condition. The operator must provide proper notification within 24 hours to clear the violation.

If an operator has a habit of not providing adequate notification or if other compliance problems exist, the Private Forestry Specialist should consider issuing a Notice of Violation. The operator should be reminded that habitual offenders may be required to post a bond.

- c. The operator, timber owner, or landowner that filed the original notification, must notify the Department of any subsequent change in information contained in the notice within thirty (30) calendar days of the change. No more than fourteen (14) calendar days from receipt of the notice, the Department will send a copy of the notice to the operator, timber owner, and landowner. (3-31-22)

INTENT 020.05.c.

This rule instructs the person who filed the notification to inform the department of any changes that affect the notification. The rule establishes requirements to execute any changes.

GUIDANCE

Violations normally are not issued for this rule. Since operators may change, the original operator should inform the department, to be absolved of liability. If the Private Forestry Specialist observes conditions in the field to be different from the notification, the changed condition should be discussed with the operator and landowner and the notification amended.

- d. The notification is valid for the same period as the certificate of compliance under Section 38-122, Idaho Code. If the forest practice is continuing when the notification expires, the notification must be renewed using the same procedures provided for in this subsection. (3-31-22)

INTENT 020.05.d.

To establish a definite period for the notification's validity, coinciding with the Certificate of Compliance.

GUIDANCE

For those practices that require a notification but not a certificate of compliance (i.e., a use of chemicals), the notice shall be valid for a period not to exceed two (2) years from the notification acceptance date.

- e. If the notification required by Paragraph 020.05.a. of this subsection indicates that the forest practice will be continuing at the notification's expiration, the operator, timber owner, or landowner must notify the Department and obtain a renewal of the notification at least thirty (30) calendar days prior. No more than fourteen (14) calendar days from receipt of the request, the Department will send a copy of the renewed notification to the operator, timber owner, and landowner. (3-31-22)

06. Notification Exception. A notification is required for all forest practices except: (3-31-22)

- a. Routine road maintenance, recreational uses, grazing by domestic livestock, cone picking, culture and harvest of Christmas trees on lands used solely for the production of Christmas trees, or harvesting of other minor forest products. (10-14-75)

- b. Non-commercial cutting and removal of forest tree species by a person for their own personal use. (3-31-22)
- c. Clearing forest land for conversion to surface mining or dredge and placer mining operations under a reclamation plan or dredge mining permit. (9-20-88)

INTENT 020.06

Rule 020.06 is intended to clarify types of operations not requiring notification. The rule also intends that all operations comply with other applicable rules and regulations, even if notification is not required (i.e., routine maintenance on a forest road does not require notification, but the activity must still comply with road maintenance rules).

GUIDANCE

Operators will not be cited under this rule; however, if Private Forestry Specialists identify environmental degradation, they will address it under the appropriate rule or refer it to the responsible agency. Notification is required for harvest, road construction, and slash management (forest practices) conducted in conjunction with a reclamation or mining operation.

Private Forestry Specialists should distinguish routine road maintenance from road construction/reconstruction. Routine road maintenance not associated with a specific forest practice does not require notification and includes culvert cleaning, road grading, occasional installation of culverts that do not convey streams (e.g. ditch relief culverts), spot rocking, brush cutting, dust abatement, and roadside herbicide application for improving access, visibility, or noxious weed treatment.

Road construction/reconstruction requires a notification and includes installation or replacement of stream crossing structures such as bridges and culverts, alteration of road cut and fills, road resurfacing, clearing and grubbing of brush to reopen old roads, and substantial modification of road drainage (i.e., installation of rolling dips, inside ditches, berms, in-sloping or out-sloping).

07. Emergency Forest Practices. No prior notification is required for emergency forest practices. Within forty-eight (48) hours after commencement of such practice, the operator, timber owner, or landowner must notify the Director and explain why emergency action was necessary. Such emergency forest practices are subject to the rules herein, except that the operator, timber owner, or landowner may take any reasonable action to minimize damage to forest lands, timber, or public resource from the direct or indirect effects of the catastrophic event. (3-31-22)

08. Duty of Purchaser. Before purchasing, contracting to purchase or accepting delivery of a forest tree species harvested from forest lands in Idaho, the initial purchaser must receive and keep on file a copy of the notification of forest practice for the harvesting practice applicable to the acquired forest tree species. The notice must be available for inspection upon request by the Department at all reasonable times. (3-31-22)

09. State Divided into Regions. For the purpose of administering the Act and these rules, the State is divided into two (2) forest regions: one (1) north of the Salmon River and one (1) south of the Salmon River. (3-31-22)

GUIDANCE 020.09

“North of the Salmon River” means the river itself, not the drainage, and north of the town of North Fork.

10. Regions Divided into Forest Habitat Types. For administration purposes, the forest regions can be divided into Habitat Types. (3-31-22)

GUIDANCE 020.10

This rule refers to reforestation; also see the Habitat Types definition, 010.22.

021. -- 029. (RESERVED)

DRAFT

030. Timber Harvesting Guidance

030. TIMBER HARVESTING.

01. Purpose. Harvesting of forest tree species is a part of forest management. This is how wood for human use is obtained and how forests are established and tended. During harvesting operations there will be a temporary disturbance to the forest environment. These rules establish minimum standards for forest practices that will maintain the productivity of the forest land, minimize soil and debris entering streams, and protect wildlife and fish habitat. (3-31-22)

INTENT 030.01

To provide a framework for the timber harvest rules. This rule will not be used for enforcement purposes. The rule acknowledges that harvest practices disturb the environment and that minimum standards must maintain forestland productivity, minimize soil and debris movement into streams, and protect fish and wildlife habitat.

02. Quality of Residual Stocking. Reforestation is required if harvesting reduces stocking of acceptable trees below minimums of Subsection 050.04. (7-1-96)

INTENT 030.02

This rule reminds the operator or landowner that reforestation may be required if an acceptable stand of leave trees is not present following harvest. It compliments reforestation rules by reminding the operator to provide for quality stocking.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when leave trees are of poor vigor, their survival and growth are questionable, or minimum stocking standards of Rule 050.04 are not present.

GUIDANCE

If harvest reduces stocking of acceptable trees (010.02) below minimums of 050.04, artificial reforestation may be required. Cite this rule and 050.04 as unsatisfactory if reforestation is not planned. Do not cite this rule if a natural event (e.g., fire, wind) reduces stocking below minimums; this situation is addressed in rule 050.

If “reforestation” is checked on the notification, it is understood that the operator or landowner may be establishing a new timber stand using artificial reforestation. Cite this rule and 050.04 if reforestation hasn’t been accomplished after 3 years following the completion of harvesting.

For marginally acceptable stands (i.e., those with minimum numbers of barely acceptable trees at high risk of blowdown, insect or disease mortality), the site should be re-inspected in 3 years to determine if artificial reforestation is needed.

For noncommercial operations or operations less than 10 acres in size (rule 050.05 exemptions) where quality residual stocking is not acceptable, comment in the inspection report that while the quality of stocking is unacceptable, reforestation is not required because of the exemption.

03. Soil Protection. For each harvesting operation, operators should select the logging method and type of equipment adapted to the given slope, landscape and soil properties in order to minimize soil erosion. (3-31-22)

INTENT 030.03

This rule directs that suitable logging methods and equipment be used after considering slope stability and erosion potential. The intent is to minimize soil deterioration and erosion and avoid damage to site productivity, water quality, or aquatic habitat caused by use of the wrong equipment. Soil erosion includes mass wasting, surface rilling, displacement, destabilization, and compaction.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when the use of inappropriate harvesting methods results, or may result, in excessive soil erosion, actually or potentially impacting water quality or site productivity.

GUIDANCE

This situation most often occurs when ground-based equipment, instead of cable or helicopter systems, is used on steep ground. Cite this rule only when more specific subparagraphs do not address the situation. If a more specific rule does not apply, require the appropriate harvest method under this rule. Economic constraints may make it impractical to harvest some stands with anything but traditional ground-based systems. In these situations, traditional methods can only be used provided other applicable rules are adhered to and the proposed harvest method poses no undue risk to protected resources.

- a.** An operation that uses ground-based equipment must not be conducted if it will cause rutting, deep soil disturbance, or accelerated erosion. On slopes exceeding forty-five percent (45%) gradient and which are immediately adjacent to a Class I or II stream, ground-based equipment, except for traction-assisted harvesting equipment, must not be used without an approved variance. Where slopes in the area to be logged exceed forty-five percent (45%) gradient, the operator, landowner or timber owner must notify the Department of these steep slopes upon filing the notification as provided for in Subsection 020.05. (3-31-22)

INTENT 030.03.a.

The rule intends to prevent water-quality or site-productivity impacts caused by skidding, or any ground-based equipment use, on saturated, geologically unstable, highly erodible or easily compacted soils. Ground-based equipment use on 45% slopes adjacent to streams is prohibited except under an approved variance. If deep soil disturbances or accelerated soil erosion occur, area streams may be impacted.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when ground-based equipment is operating on 45% and greater slopes adjacent to streams, or ground-based equipment causes deep soil disturbance and accelerated erosion.

GUIDANCE

Apply this rule's standards to use of any ground-based equipment (not just skidding equipment), including harvester-processors, feller-bunchers, forwarders, and excavators that may be piling slash after harvesting is completed.

Identification of damage or potential damage can be difficult, but judgment should rest primarily on the stability of the geology and soil type, as well as steepness and proximity to the

stream channel. The primary consideration is the likelihood that runoff over these compacted trails will result in sediment delivery to the stream channel.

Any time ground-based skidding occurs on forest soils, soil deterioration decreases the site's productivity. Repeated passes by equipment over the same area usually reduce the site class. Soil deterioration can be kept to a minimum by pre-designating skid trails. Repeated skidding over more than 20% of the area is considered excessive.

"Rutting, deep soil disturbance or accelerated erosion" generally occur under saturated soil conditions during late fall, mid-winter thaws, or spring breakup. Operation of ground-based equipment should not occur at these times.

Since equipment use is prohibited in SPZs, consider "immediately adjacent to streams" to mean areas beyond the stream protection zone (SPZ) where erosion may result in displaced soil reaching streams. Soil type, slope, vegetation, topography, intersecting roads/trails, and installations of drainage features (e.g., waterbars) should all be considered when using professional judgment to determine whether skidding is "immediately adjacent" and would result in sediment reaching the stream. A variance is needed to skid, or use ground-based equipment, on slopes greater than 45% adjacent to streams. Generally, variances to this rule should only be granted to cover small areas, should avoid construction of new trails, only occur during dry or frozen soil conditions, and should maintain surface vegetation to prevent soil delivery to streams.

- b. The grade of constructed skid trails on geologically unstable, saturated, or highly erodible or easily compacted soils is limited to a maximum of thirty percent (30%). (3-31-22)

INTENT 030.03.b.

To prevent the erosion of steep skid trails on high-hazard sites from cut and fill skid trail construction.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when constructed skid trail grades exceed 30% on geologically unstable, saturated, highly erodible, or easily compacted soils.

GUIDANCE

Consider these types of trails, and constructed fire trails around prescribed fire units, as subject to regulation under this rule. "Geologically unstable" soils have high potential for mass failure. Consider landform type, slope, drainage, and extent of ground-disturbing activity to determine potential for failure. Consultation with a specialist may be necessary. A cut-bank-ramp (greater than 30% grade) approach from a road to an upslope skid trail that breaks to less than 30% grade is not subject to regulation under this rule.

- c. In accordance with appropriate silvicultural prescriptions, keep skid trails to the minimum feasible width and number. Limit tractors used for skidding to that size appropriate for the job. (3-31-22)

INTENT 030.03.c.

To limit equipment size and skid trail width and number to minimize soil disturbance.

UNSATISFACTORY CONDITIONS

Unsatisfactory conditions exist when excessive skid trails (i.e., trails that cover more than 20% of the area) are used to log a stand or equipment used for skidding is greatly oversized. It is possible for smaller equipment to cause excessive disturbance if large volumes are removed. The additional passes with a smaller machine could be more damaging than less passes with a large one.

GUIDANCE

Reuse of existing skid trails, provided their use does not violate current rules, is encouraged. Violations of this rule usually occur in conjunction with violations of other subparagraphs of Rule 030.03. Apply this rule to traditional ground-based tractors and skidders, not cut-to-length systems operating on a slash mat or new-generation excavators doing shovel logging. Operators should be encouraged to pre-designate skid trails prior to felling operations.

- d.** Uphill cable yarding is preferred. When downhill yarding, take reasonable care to lift the leading end of the log to minimize downhill movement of slash and soils. (3-31-22)

INTENT 030.03.d.

This rule is partly advisory. It indicates that uphill cable yarding is recommended over downhill yarding. Downhill yarding tends to increase downslope movement of soil and concentrate surface drainage on exposed soils, including landings. This rule requires minimum soil disturbance when downhill cable yarding is used.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when downhill cable yarding is used and excessive soil disturbance occurs or is likely to occur.

GUIDANCE

When identifying damage or potential damage, soil properties must be considered and provisions made for drainage and soil stabilization on cable skidding corridors. Ensure adequate deflection to minimize soil disturbance. Consider hand cross-ditching, seeding or placing slash on heavily disturbed corridors.

- 04. Location of Landings, Skid Trails, and Fire Trails.** Locate landings, skid trails, and fire trails on stable areas to prevent the risk of material entering streams. (10-14-75)

INTENT 030.04

To prohibit landings, skid trails, and fire trails from being built or reused on potentially unstable or highly erodible sites prone to mass soil movement. For the purposes of this rule, a landing is a cleared area within the forest operation to which logs are yarded or skidded for processing, including slash piling, decking, and loading onto trucks for transport. When the natural drainage in such areas is altered, the improper design and location of landings or trails can trigger landslides.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when landings or trails are located on unstable, steep areas with high risk of mass failure.

GUIDANCE

This rule is concerned with unstable fill on landings, skid trails and fire trails that may trigger landslides. As is the case with roads, similar clues that indicate a potential instability problem with trails and landings include buried debris in fills and presence of tension cracks. For surface erosion problems on skid trails and landings, use Rule 030.05, Drainage Systems.

- a. Locate all new or reconstructed landings, skid trails, and fire trails on stable areas outside all SPZs. Locate fire and skid trails where sidecasting is held to a minimum. (3-31-22)

INTENT 030.04.a.

To minimize unnecessary soil disturbance by building skid trails, fire trails, and landings that conform to the topography and are outside the stream protection zones (SPZs).

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when skid trails and landings are constructed or reconstructed within SPZs or side-cast material from landing or trail construction out of the SPZ is deposited in the SPZ.

GUIDANCE

This rule also applies to reconstruction of existing landings and skid trails. Damage or potential damage should be identified only after considering soil properties, slope, and proximity to streams. The less cutting and side-casting, the better. "Reconstructed" means repair or reuse involving vegetation removal or reshaping where resource impacts could occur. Variances may be issued provided the equivalent or better standard is met. If streams must be crossed, refer to Rule 030.07, Stream Protection. "Fire trails" refers to trails constructed for slash management, not wildfire control.

- b. Landing size is limited to that necessary for safe economical operation. (3-31-22)

INTENT 030.04.b.

To minimize landing size and reduce potential impacts to water quality or soil productivity.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists if landings are larger than necessary to safely accommodate needed equipment or if landing size may impact water quality or site productivity.

GUIDANCE

It is better to design a landing of generous size in accordance with the rules than to minimize initial size and increase it later by burying slash and debris that may result in a perched landing configuration. The Department of Labor and Industrial Services Logging Safety Division may be consulted when determining a "safe" landing size. Helicopter landings close to streams deserve special attention due to their tendency to expand.

- c. To prevent landslides, fill material used in landing construction must be free of loose stumps and excessive accumulations of slash. On slopes where sidecasting is necessary, stabilize landings by seeding, compacting, riprapping, benching, mulching or other suitable means. (3-31-22)

INTENT 030.04.c.

To prevent landing fill failure, which may affect long-term site productivity or cause materials to enter streams. Stumps, slash and thick duff should be removed from landing area so that only bare soil remains to receive the fill. Compacted and stabilized fill can prevent mass failure.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when the landing has organic material, unconsolidated inorganic material, or snow incorporated in the fill, or factors such as inadequate compaction make the fill unsafe and prone to failure.

GUIDANCE

All landings must be stabilized for the long term. While seeding and mulching will protect a landing from surface erosion, it may not be enough to prevent a slide. Landing slides are usually the result of buried organic debris, inadequate compaction or poor drainage. Repair may require removal of buried debris. Slash or waste deposited on the landing during harvest should be considered unstable if it creates a perched landing likely to fail. Meaningful compaction can only be accomplished with heavy equipment (e.g., sheep's foot roller) designed for that purpose. A few passes with a dozer does not provide adequate surface pressure to compact landing fills.

05. **Drainage Systems.** Provide and maintain a drainage system for each landing, skid trail or fire trail that will control the dispersal of surface water to minimize erosion. (3-31-22)

INTENT 030.05

To minimize erosion on all soils exposed by harvest operations. Drainage systems should be installed and maintained on landings, skid trails, and fire trails during and after harvest. Drainage systems should drain water onto undisturbed forest soils or areas of vegetation, allowing it to infiltrate the soil prior to entering streams. This rule also serves as a purpose statement for other subparagraphs containing specific practices.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when controlled drainage is lacking on landings, skid trails, or fire trails causing damage or potential damage to water quality, aquatic habitat, or soil productivity.

GUIDANCE

Line skidding corridors with excessive soil disturbance that will result in erosion should be considered a skid trail subject to drainage provisions. Cite the 030.05 subparagraph which best describes the violation.

- a. Stabilize skid trails and fire trails whenever they are subject to erosion, by water-barring, cross-draining, out-sloping, scarifying, seeding or other suitable means. Keep this work current to prevent erosion prior to seasonal runoff. (3-31-22)

INTENT 030.05.a.

This paragraph requires controlled drainage of skid trails and fire trails to prevent soil erosion. To stabilize soil, properly construct and locate cross-ditches, dips, water bars or other diversions; seeding, mulching, use of organic debris or matting is also effective. Soils should be stabilized before fall rains or spring breakup. Drainage must be maintained throughout the logging season, when trails are not in use.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when skid trails and fire trails do not have adequate drainage control to prevent damage or potential damage to water quality, aquatic habitat, or soil productivity.

GUIDANCE

Erosion can occur at any time of the year; therefore, erosion control structures should be installed as soon as skid trail and fire trail use is complete. Bedded slash or out-sloping can provide adequate drainage control in some cases. Ideally, an operator should complete all skidding and install structures before leaving an area.

At times an operator may need to leave an area before skidding is complete, with the intention to finish up "in a few days." In this situation, the operator should install drainage structures prior to leaving the area, regardless of future skidding plans. This will ensure that unforeseen delays do not result in resource damage and corresponding enforcement action.

When the rule has not been complied with and there is time to bring in equipment to complete the necessary work, an inspection report should be completed showing that an unsatisfactory condition exists. A NOV is warranted if drainage is not provided by fall or spring runoff and has, or certainly will result in, resource damage.

Cross-ditch spacing guidelines are useful, but the PFS determines what constitutes adequate drainage control. Often, cross-ditches need to be placed in specific locations to be effective due to the local terrain and the proximity to streams. In these situations, the PFS may wish to mark the locations in the field using ribbon or paint, instead of specifying a set spacing guide.

- b. Reshape landings as needed to facilitate drainage prior to seasonal runoff. Stabilize all landings by establishing ground cover or other means within one (1) year after harvesting is completed. (3-31-22)

INTENT 030.05.b.

This rule requires that landings be reshaped, stabilized, and provided with drainage to minimize soil erosion. Whenever possible, shape the landing to eliminate low spots. Water accumulation on landings on steep slopes can cause mass failure. Landing drainage needs to be in place *no later than* fall rains for summer operations and spring runoff for winter operations. A time frame should be established to re-vegetate landings.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when the landing lacks drainage or is not sufficiently stabilized to prevent erosion during runoff periods.

GUIDANCE

If landings are constructed correctly, minor reshaping and seeding upon completion of use is generally all that is needed to comply with the rule. Guidance for Rule 030.05.a regarding an operator leaving an area before completing the job, also applies here. Additional stabilizing measures may be required if ground cover is not established within a year. An unsatisfactory condition exists any time landing drainage is not installed after use; an NOV is warranted if drainage has not been provided by fall rains or spring runoff and it results in, or certainly will result in, resource damage.

06. Treatment of Waste Materials. Leave or place all debris, overburden, and other waste material associated with harvesting in a way that prevents their entry into streams. (3-31-22)

INTENT 030.06

This is the purpose statement for handling waste materials. The intent is to prevent waste materials from entering streams. All waste materials should be strategically located above the high water mark and in stable areas where they cannot move into streams.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when water quality or aquatic habitat is threatened by waste materials associated with timber harvest.

GUIDANCE

Waste material in this rule refers to soil and woody debris. This paragraph should be cited only when the violation cannot be described by a more specific subparagraph of Rule 030.06. Enforcement concerning unstable slash concentrations on landings may occur under this rule or Rule 030.04.c.

a. Fell, buck, and limb trees, whenever possible, so that the tree or any tree parts fall away from Class I streams. Continuously remove slash that enters Class I streams because of harvesting operations. Continuously remove other debris that enters Class I streams because of harvesting operations whenever there is a potential for stream blockage or if the stream has the ability for transporting such debris. Place removed material five (5) feet slope distance above the ordinary high water mark. (3-31-22)

INTENT 030.06.a.

This rule identifies and prevents stream bank disturbance or deposition in streams of slash, large-wood waste or large quantities of fine organic materials such as leaves, needles, and twigs. Stream blockage and diversion of normal flows can damage roadways and stream crossings. The rule discourages any felling, bucking and limbing that allows trees, tops or limbs to fall across or into Class I streams. During harvest, debris deposited in streams must be placed above high-water levels. Trees felled across class I streams should be bucked in a manner to provide for LOD (030.07.e.vi.).

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when harvest activities result in unstable slash or debris being left in a Class I stream. Noncompliance also exists if harvest activities have damaged stream bank integrity by uprooting vegetation and exposing soil.

GUIDANCE

The rule recognizes operator's best attempts to keep logging slash, tops and trees out of streams is not always successful. If the operator is making a prudent attempt to keep this debris out of Class I streams, and some gets in, it only becomes a violation if the unstable material is left in the stream.

Slash, as defined in the rules, should be removed immediately. Large organic debris (LOD), as defined in the rules, should be left in place. Unstable woody material in size between slash (<3 in. diameter) and large organic debris (longer than channel width or 20 feet) should be removed if it has a blockage potential. Removal should occur continuously, preferably within one week. Leaning trees on or close to the stream bank likely to fall across or into the stream should be left standing. Stream bank and SPZ integrity must be maintained and soil disturbance prevented during removal of debris.

b. Remove slash and other debris that enters Class II streams whenever there is a potential for stream blockage or if the stream has the ability for transporting the debris immediately following skidding and place removed material above the ordinary high water mark or otherwise treat as prescribed by the Department. No formal variance is required. (11-7-86)

INTENT 030.06.b.

To prevent stream bank disturbances, or sluice-outs of slash concentrations, which can block Class II streams and damage water quality and aquatic habitat. A variance is not needed to work below the ordinary high water mark to remove slash from streams by hand.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists if slash and other debris is not removed where it will cause Class II stream blockage and diversion.

GUIDANCE

Except at stream crossings, debris transport and blockage in Class II streams is generally not a problem. Slash should always be placed above the ordinary high water mark, and soils should not be exposed or disturbed in the removal process. In general, remove all slash above Class II stream culverts or bridges for at least 50 feet.

Hand removal is preferred. If equipment must be used for safety or immediacy purposes, and provided the operator did not cause the problem (e.g., beavers plug a culvert) a variance is needed to comply with rule 030.07.c, regarding the equipment prohibition in SPZs. A variance is not needed to use equipment if the operation is cited as an unsatisfactory condition and equipment use is prescribed and documented to correct the unsatisfactory condition.

- c. Deposit waste material from construction or maintenance of landings and skid and fire trails in geologically stable locations outside of the appropriate SPZ. (3-31-22)

INTENT 030.06.c.

To require placement of excess fill material, stumps, and woody debris from construction and maintenance of landings and trails in stable locations outside the appropriate SPZs.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when waste material is placed in, or will move into, the SPZ as a result of runoff or mass wasting events.

GUIDANCE

Construction or reconstruction of landings and skid trails along SPZs or on steep slopes may necessitate end hauling of waste material to a stable disposal site.

07. **Stream Protection.** During and after forest practice operations, protect stream beds and streamside vegetation to provide the most natural condition possible to maintain water quality and aquatic habitat. (3-31-22)

INTENT 030.07

This is the “umbrella” rule, or the purpose statement, for specific practices in the subparagraphs that follow. This rule intends that harvest activities leave streams, streambeds, and streamside vegetation in “the most natural condition possible” to maintain water quality, soil productivity, and wildlife and aquatic habitat. It further states that this maintenance and protection of riparian resources is to occur *during* and *after* forest practice operations. Streams and adjacent ground are the most sensitive areas on forestland. Drinking water, fisheries, and riparian wildlife habitat are concentrated in these areas. Poor harvest practices can damage these resources. A primary tenet of the FPA is that careful management of streamside zones can maintain and enhance riparian benefits and generate timber income.

GUIDANCE

This subsection will not be used in enforcement. If violations occur, cite the specific paragraph that best describes the violation. The protection of water quality is one of the primary objectives of the Idaho Forest Practices Act. To help protect water quality, buffers are required along water bodies. These buffers have different characteristics depending upon the body of water they attempt to protect. Their purpose is to act as filters to minimize pollutants (mostly sediment delivery from eroded mineral soil) that may result, in part, from a forest practice.

- a. Lakes require an approved site-specific riparian management prescription prior to conducting forest practices within the SPZ. (3-31-22)

INTENT 030.07.a.

The FPA Rules require the minimum protection for lakes to be equal to the protections provided for Class I streams. This approach may have provided not enough, or too much, lake protection in some situations. The intent is to develop site-specific BMPs, via a riparian management prescription, to prevent potential nutrient or sediment delivery when operations occur in a lakeside area. These BMPs should be in place before forest practices commence. The designated beneficial uses of lakes must be protected and maintained.

As defined in the FPA Rules definitions for Class I streams, the **stream protection zone (SPZ)** referred to in this rule is the area encompassed by a slope distance of 75 ft. from the OHW mark of a lake shore. This rule applies to operations occurring within the lake's SPZ. If operations are planned near a lake, but will not encroach within the 75-foot SPZ, no riparian management prescription is required.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when a forest practice commences within 75 feet of the OHW mark of a lakeshore without an approved riparian prescription in place; or if BMPs described in the prescription (or required by Class I rules) are not followed.

GUIDANCE

The compliance/notification should indicate whether the operation is adjacent to a lake. The operator should then be referred to the Private Forestry Specialist (PFS) for consultation on developing a site-specific plan for the lakeside operation. Management plans that have been developed for many Idaho lakes contain information on sources of pollution and general BMP recommendations for all land use impacts, including forest practices. When appropriate, the PFS should refer to these plans to gain insight into lake water quality issues as they are developing a riparian management prescription.

BMPs for lakes can differ from stream BMPs, but the language of the rule indicates that for most forest practices, the rules that apply to Class I streams should likewise apply to lakes. However, PFSs should consider potential degradation specific to lakes when writing the site-specific riparian prescription. Lakeshore stability must be maintained, nutrient and sediment delivery should be prevented, shade must be maintained, fish cover/habitat must be sustained, LOD recruitment must be promoted, and water filtering effects of vegetation must be protected. Therefore, very careful consideration should be given to the proximity of all burning, harvesting and other soil-exposing activities that occur within a lake's SPZ. For some lakeside operations, if

on-the-ground conditions warrant it, all bank trees and shrubs should be retained within a lake's SPZ. No mechanically piled slash should burn within the SPZ of a lake.

Always consider all rules which regulate activities in the SPZ of a Class I stream. No ground-based operations should occur within the lake's SPZ and the operator should retain the minimum number of standing trees required in rules 030.07.e.ii. No ground-based skidding should occur on slopes exceeding 45% gradient which are immediately adjacent to a lake without a variance.

In accordance with rule 060.02, petroleum product storage containers with capacities of more than 200 gallons should be located no closer than 100 feet from the lake side and all fueling operations and maintenance of equipment should be conducted outside of any area that could potentially deliver chemicals to the lake if spillage occurs. All other chemical-storage rules contained in subsections of this rule also apply to lakes.

All other applicable FPA Rules should be applied to lakeside practices.

If in place, an approved lakeside-specific riparian management prescription may be enforced under this rule. If a prescription is not in place, the PFS should schedule a pre-operational inspection with the landowner or operator to develop lakeside-specific practices for the operation. This inspection should occur within 10 days of notification.

PFSs are encouraged to distribute the Lake Protection Supplemental Information (below) to landowners and operators who are planning lakeside forest practices. Operators need to understand that the additional measures described below are voluntary on their part.

Additional Reference Materials

Lake Protection Information

This supplemental information has been developed by the department to inform lakeside operators who are interested in specifics contained in the lake-protection rule, as well as additional voluntary actions that may further reduce the risk of negative impacts to lakes. If operators choose to implement some or all of these additional measures, they will likely reduce risks and help ensure that water quality, and fish and wildlife habitat are protected.

Studies indicate that lake water quality is declining in Idaho, and that human activity is often a major factor. In 1993, the Department of Environmental Quality studied 17 north Idaho lakes and found that only two fully supported their designated beneficial uses. Other studies over the last 10 years indicate that human activity contributes to sedimentation and nutrient enrichment, causing water quality to decline at an accelerated rate. Evidence of this decline includes decreased clarity, large algae blooms, unsafe drinking water, oxygen loss in deeper waters, shallowing, dense aquatic plant growth and changes in fish and wildlife communities. Studies identify many human activities that impact Idaho's lake environment to varying degrees. Wastewater disposal, storm water runoff, agriculture, grazing, road construction and maintenance, human development and recreation can all affect water quality.

Although a number of factors contribute to the degradation of Idaho's lake environment, this paper will focus on the effects of timber practices on lake water quality and how best to reduce these impacts. Research has shown that improper road location, construction and/or maintenance, slash burning, fertilizing, and timber harvest often result in sedimentation and nutrient input. Studies indicate that road systems deliver more than 70% of the sediment associated with logging operations. Minimization

of road construction and adherence to site-specific best management practices (BMPs) in the design, construction and maintenance of roads can greatly reduce sediment production and delivery. Skidders and other machinery can disturb the ground, increasing the sediment load to lakes. With well planned and executed timber harvest activities and careful adherence to BMPs, sediment production and delivery can be reduced.

Increased nutrient input, particularly phosphorus and nitrogen input, can cause large algae blooms and increased aquatic plant growth. Fertilization and the burning of slash and debris near water can increase nitrogen input. Healthy vegetated filter strips can absorb much of this nutrient before it enters a lake; in fact, heavily vegetated stream banks can actually remove nitrogen from the stream. Phosphorous, unlike nitrogen, binds to soil particles and is not usually water soluble. Consequently, logging practices that increase erosion and sedimentation contribute to phosphorous input to lakes. To reduce nutrient input, forest operations should minimize erosion, avoid lakes during fertilization, herbicide application, and slash burning, and maintain healthy stream protection zones (SPZs).

A lake is defined as a natural or man-made body of perennial standing water larger than 1 acre in size. The Forest Practices Rules require the minimum protection for lakes to be equal to the protections provided for Class I streams. As defined in the Forest Practices Rules definitions for Class I streams, the SPZ of a lake is the area encompassed by a slope distance of 75 ft. from the OHW mark of a lake shore. Rule 030.07.a requires that an approved site-specific riparian prescription be in place before a forest practice is conducted within a lake's SPZ. The operator should consult with an IDL Private Forestry Specialist at the time of notification to start the prescription-development process.

BMPs for lakes can differ from Class I stream BMPs, but the language of the rule indicates that for most forest practices, the rules that apply to Class I streams should likewise apply to lakes. However, Private Forestry Specialists will consider potential degradation specific to lakes when writing the site-specific riparian prescription. Lakeshore stability must be maintained, nutrient and sediment delivery should be prevented, shade must be maintained, fish cover/habitat must be sustained, LOD recruitment must be promoted, and water filtering effects of vegetation must be protected. Therefore, very careful consideration should be given to the proximity of all burning, harvesting and other soil-exposing activities that occur within a lake's SPZ. For most lakeside operations, all bank trees and shrubs should be retained within a lake's SPZ. No slash burning should occur within the SPZ of a lake.

All other applicable Forest Practices Rules should be applied to lakeside practices.

Additional (voluntary) measures that may further reduce negative impacts to lakes:

1. Careful analysis of any proposed harvest that will occur within 300 feet of a lake, closely looking at potential degradation that may result from an operation.
2. Large continuous underburns that would alter shading and filtering effects should be avoided within 300 feet of lakes.
3. A pre-operational inspection should be requested if there are plans to construct or reconstruct roads located on highly erosive or unstable soils adjacent to a lake's SPZ.
4. All sediment traps or filters must be placed at least 30 feet from the lake's ordinary high water mark unless the department pre-approves another alternative. This will help ensure trapped sediment does not wash into a lake during flood events.
5. Fertilizers should not be used within a lake's SPZ.
6. All maintenance of equipment should be conducted outside of a lake's SPZ unless special measures are taken to prevent petroleum product or chemical spills.

Guidance for Use of Rule 030.07 Site Specific Riparian Management Plans

There are cases when strict adherence to forest practices rules could result in greater resource impact than modifying a practice or rule for a specific situation. Forest Practices rules allow a practice to vary from specific BMPs under an Area Manager approved variance. Usually a variance is for a specific rule(s), activity, location, and finite duration. Often the possible impact of a practice under a variance will be of short duration (less than a few years) or of minimal impact. In some cases, there may be a legitimate reason to vary from a rule where the time restriction and limited documentation of a variance hinders appropriate resource protection requirements. When situations occur within a SPZ that may affect long-term water quality, IDL may require a Site-specific Riparian Management Plan (SSRMP) as a supplement to a variance application. This additional requirement provides sufficient background to justify the potential risk to long-term water quality. Each SSRMP shall function as a supplement to a Request for Forest Practice Rules Variance.

An example is harvesting trees within a Class I SPZ to levels below the minimum rule requirements in 030.07.e.ii. The removal of shade is a long-term impact because it will take more than two years for vegetation to provide equal or greater shade to the stream or lake. However, if the stand is in very poor health and decadent, dead, and dying trees present a forest health risk to surrounding stands preventing the establishment of healthy forest conditions near the stream, it may be appropriate to remove more of the trees than allowed under the current rule. This allows establishment a healthy forest condition next to the stream more rapidly and actually improves long-term shade development. The justification is that long-term benefit outweighs short-term impact. The benefits are improved shade and LOD for a century versus a few decades or shorter due to insect, disease or wildfire risk.

Another example is public safety. Public safety takes precedence over forest practices rules. Except in the case of emergency forest practices or specific imminent threats to public safety, obtain an approved variance prior to implementing a practice outside forest practice rules. Because of the potential for longer-term impact to the resources, a SSRMP might more clearly define the need for the variance and possible mitigation for the impact.

Other scenarios that may require a site-specific riparian management plan include the construction or reconstruction of a road within the SPZ, where the development has a significant long-term impact on shade, LOD, or other resources or the need to salvage trees from an SPZ following a catastrophic event.

When applying a variance to an area, such as the SPZ of a stream rather than to a specific activity at a specific point, it is critical that the variance specifically identify the area where it applies.

b. Prior to conducting forest practice operations that cross streams using ground-based equipment, install temporary or permanent structures adequate to carry stream flow; skidding or forwarding directly in or through streams or fords is not permitted. Minimize the number of stream crossings and make direct approaches to minimize ground disturbance in the SPZ. Remove all temporary crossings immediately after use and, where applicable, cross-drain the approaches. (Construction of hydraulic structures in stream channels is regulated by the Stream Channel Protection Act - Title 42, Chapter 38, Idaho Code, and Paragraphs 040.02.e. and 040.02.g.). (3-31-22)

INTENT 030.07.b.

This rule paragraph intends to prevent the use of ground-based equipment, and any similarly caused disturbance, directly in stream channels and requires temporary or permanent bridges, culverts, or other approved structures to cross streams. These structures must allow continued stream flow and fish passage and minimize water quality impacts. Temporary structures must

be removed immediately after use. Skid trails accessing the stream crossing must be drained properly. All disturbed soils must be stabilized by seeding, mulching, or other means. Stream Channel Protection Act (SCPA) or IDWR MOU requirements may apply.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists if ground-based equipment crosses a stream, or enters a stream channel, without providing for a temporary structure that allows for the free flow of water.

Also, an unsatisfactory condition exists if a temporary structure is not removed immediately after use (before high flow), if fish passage is not provided for during periods of fish use, or if approaches to the crossing are not properly drained, stabilized or armored.

GUIDANCE

The rules for road location, design, and construction apply if the operator or landowner intends to build a permanent crossing structure. This rule requires a temporary structure (not necessarily designed to carry a 50-year event), when streams are crossed by yarding or skidding equipment. IDWR MOU provisions must be applied on perennial streams to install a temporary crossing for use by skidding equipment. If the stream is intermittent and the MOU is not applicable, apply the rule as written.

The incidental crossing, over and back without a drag, over a stream with ground-based equipment does not require an MOU permit or variance. Soil disturbance must be minimal and conditions prescribed to facilitate the one-time crossing (e.g., during times when the channel is dry or frozen), and the equipment in a condition where petroleum products will not leak, or enter by contact, into the stream. Incidental crossing, over and back, with excavation equipment, for the purpose of installing an approved stream-crossing structure, does not require a variance; for qualifying culvert, bridge or ford installations on perennial streams, an approved Supplemental Notification Form (substitutes for an IDWR Stream Channel Alteration Permit) should be on file. If an Operator is carrying out a cable yarding (skyline) operation, a necessary one-time crossing over and back for an appropriate piece of equipment acting as a tail-hold does not require a variance; these one-time crossings must not cause resource damage to the stream channel or surrounding SPZ.

Generally, variances may only be granted for limited equipment crossing without a temporary crossing if there is no flow, the soil is dry or frozen, and approaches are shallow and rocky and do not require excavation; provided this will result in less soil disturbance than installation and removal of a temporary crossing.

Stabilize banks as needed after temporary crossings have been removed. Removal "immediately after use" means upon completion of skidding and no later than fall rains, when conducting summer or fall forest operations, or spring runoff, when conducting winter forest practices. On perennial streams, refer any suspected violations of the SCPA to IDWR.

Temporary structures must allow for fish passage, if applicable at the time of use, should not pond water upstream and must be free of slash and dirt. If log structures are used, consider installing fabric and cabling the logs together prior to installation to minimize sediment delivery upon removal.

Direct approach to stream crossings should be perpendicular to the stream crossing or as close to perpendicular as possible.

- c. Operation of ground-based equipment is not allowed within the SPZ except at approaches to stream crossings. (3-31-22)

INTENT 030.07.c.

To prohibit the use of ground-based equipment in Class I and II stream and lake protection zones. Variances may be granted for equipment use in these zones if equivalent or better resource-protection standards are met.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when ground-based equipment is operating in a SPZ without a variance and outside an approach to a crossing. This includes equipment used for harvesting or conducting slash management/prescribed fire activities.

GUIDANCE

If an operator is working in the SPZ and not exposing soil or otherwise impacting the vegetation (forbs, grass, brush, trees, etc.), the equipment should be removed from the SPZ and the operator should be reminded of the rule intent. An operator must obtain a variance to operate equipment within the SPZ, even if the activity is not causing soil or vegetation disturbance. Variances may be granted for SPZ activities operating in a manner that do not disturb the soil or streamside vegetation or result in construction or reconstruction of trails (e.g., operating on top of several feet of frozen snow). Soil displacement can be avoided and vegetation protected by limiting the number of passes, operating on snowpack or during frozen conditions, or reusing existing trails that do not require clearing and grubbing to reopen. The key to this rule is to not allow soil to become exposed and enter streams during skidding, damage to residual vegetation, or construction of slash piles that may expose soil and result in a nutrient flush to streams during burning.

- d. When cable yarding is necessary, across or inside the SPZs, it must be done in a way that minimizes stream bank vegetation and channel disturbance. (3-31-22)

INTENT 030.07.d.

To provide protection to stream banks and streamside vegetation when cable yarding across SPZs is necessary. Whenever practical, yard away from the stream on each side. If yarding across streams is necessary, operators must protect the stream banks and streamside vegetation and preferentially fly logs over the SPZ which may include cutting a merchantable log from the bottom of trees to be skidded.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when yarding damages vegetation within the SPZ (essential to providing shade, LOD, aquatic habitats, water-filtering effects, or stream bank stability) or disturbs streambanks/stream channels by exposing soil that will enter streams or otherwise modify the stream channel.

GUIDANCE

Fly logs over leave trees and other streamside vegetation, when cable yarding across streams. When adequate deflection cannot be achieved, corridors may be cut through the SPZ, provided tree retention requirements are met. Corridors should be narrow and widely spaced. Remove as few trees as possible from the corridors, but allow for safe yarding. Where full suspension over streams is not possible, bump logs may be placed on the streambank and removed after use. Lateral yarding techniques minimize the swinging of the load and reduce soil disturbance in the SPZ. A SSRMP and variance will be required if corridors will reduce retention below requirements in 30.07.e.ii.

- e. Provide for LOD, shading, soil stabilization, wildlife cover and water filtering effects of vegetation along streams. (3-31-22)

INTENT 030.07.e.

Vegetative filter strips are required along all streams. This rule also allows an alternative, site-specific, riparian, management prescription to provide adequate filter strip requirements. The minimum requirements for SPZs are to provide for soil stabilization, water filtering, shading, LOD recruitment, and wildlife cover.

GUIDANCE

Rule Paragraph 030.07.e. specifically charges the operator with providing for large organic debris (LOD), shading, soil stabilization, wildlife cover and water-filtering effects of vegetation. Adequate shade must be left over Class I streams to maintain stream temperatures, thermal cover, and wildlife cover. Trees shall be left adjacent to Class I streams in adequate numbers to provide LOD into the stream channel to maintain aquatic habitats and provide channel stability. While standing dead trees are not used in the calculation of minimum retention, their value as a source of LOD is significant. For this reason, we discourage the wholesale harvest of snags within the SPZ; especially if standing dead trees are all that remain following a disturbance. The PFS should strongly encourage the operator to retain trees suitable for LOD recruitment within the SPZ, unless LOD has been otherwise addressed in a Site-Specific Riparian Management Plan.

- i. Leave shrubs, grasses, and rocks wherever they afford shade over a stream or maintain the integrity of the soil near a stream. Landowners are strongly encouraged to leave all trees immediately adjacent to streams. (3-31-22)

INTENT 030.07.e.i.

If shrubs, grasses and rocks provide shade for streams or help maintain streambank or streamside soil integrity, they must remain in place.

UNSATISFACTORY CONDITIONS

Shrubs, grasses, rocks, or naturally downed timber, that provide shade or soil stability, are removed.

GUIDANCE

While this subsection applies to the entire SPZ, it is particularly important to areas within and adjacent to the ordinary high water mark. It is important to leave shrubs, grasses, and rocks to provide shade over the stream and maintain the integrity of the soil near the stream. Address any removal of streamside hardwoods (e.g., cottonwoods) in a site-specific prescription.

- ii. During commercial harvest within Class I SPZs, retain the following weighted tree count per one-hundred (100) linear feet of stream: (3-31-22)
- (1) Fifty-seven (57) north of the Clearwater/Lochsa Rivers; (3-31-22)
 - (2) Forty-nine (49) between the Clearwater/Lochsa and Salmon Rivers; (3-31-22)
 - (3) Forty-one (41) south of the Salmon River; and (3-31-22)
 - (4) Thirty-seven (37) in drier forests with SPZs dominated by Douglas-fir and ponderosa pine. (3-31-22)
 - (5) At least four (4) of the above weighted tree count must be retained in the outer twenty-five feet (25') of the SPZ. (3-31-22)

INTENT 030.07.e.ii.

Specific streamside silvicultural and forest-health scenarios can alter how best to meet the rule. The rules allow development of site-specific riparian management prescriptions if, over the long term, they meet the intent set forth in Rule Paragraph 030.07.e. A site-specific riparian management plan may allow for a short time period (for example, 5-15 years) of reduced stocking, followed by a longer time period (for example, 30-50+ years) of higher stocking. The intent of these site-specific riparian management plans is to move the forest condition to an appropriate level of stocking with healthy trees. The goal is to encourage silviculture practices that result in greater shade over a longer time frame than if the existing riparian area is left unmanaged.

UNSATISFACTORY CONDITIONS 030.07.e.ii.

An unsatisfactory condition exists if: (1) Any stems are removed from either zone of the Class I SPZ if that zone did not have the required minimum level of stocking prior to harvest. (2) A planned forest practice results in tree retention being reduced below minimum levels described in the rule. (3) The terms and conditions of an approved site-specific riparian management prescription were not followed.

GUIDANCE

This Rule Subparagraph is related to shade and LOD contributions to a Class I stream and applies to the entire 75-ft.-wide SPZ where forest practices are planned. A planned forest practice shall not result in the stocking falling below required minimum retention defined in the rule. If current conditions do not meet minimum stocking requirements either because not enough trees are naturally present or the zone was previously harvested, then the landowner will not be able to remove trees. If there is a compelling reason which requires removal of trees below the required minimums (e.g., insect infestations, hazard tree removal, or wildfire threat), it will need to be addressed in a site-specific riparian management prescription as part of a variance.

Non-forested areas are to be included as part of the stream reach as they occur. A road, meadow or rockslide that occurs along a stream within the SPZ shall be counted as part of the total stream reach and shall be sampled accordingly. Operators may designate larger contiguous areas as being outside the harvest area. Retention minimums must be retained in all areas where planned forest practices will occur. If a forest practice is planned for both sides of a stream then both sides must meet rule minimums independently. An operator shall not use an exceptionally high stocking on one side of a stream to justify harvesting below minimum retention on the other side unless approved in a site-specific riparian management plan.

To meet the intent of the rule, there should be a relatively continuous distribution of leave trees along the entire length of the SPZ in an effort to emulate the natural distribution of stems present. Clumping is not an appropriate methodology for distributing retained trees. The retention of trees closer to the stream at a higher density is to be expected and is appropriate. But large scale clumping or group selection would not be appropriate. While the need for line corridors and skid trail crossings is recognized, removal of trees must be carefully planned and executed to minimize disturbance to leave trees and other SPZ vegetation. Line corridors should be appropriate in size and quantity and placed in natural openings whenever possible. The resulting riparian stand of retained trees, post-harvest, shall meet the retention minimums. If the application of line corridors will result in retention falling below rule minimums or in the necessity to harvest trees in a zone that is below minimums, mitigation or limitations may be addressed in a site-specific riparian management plan. The application of the rule should not preclude the operator from conducting a line skidding operation, if the activity is an appropriate management tool given the circumstances.

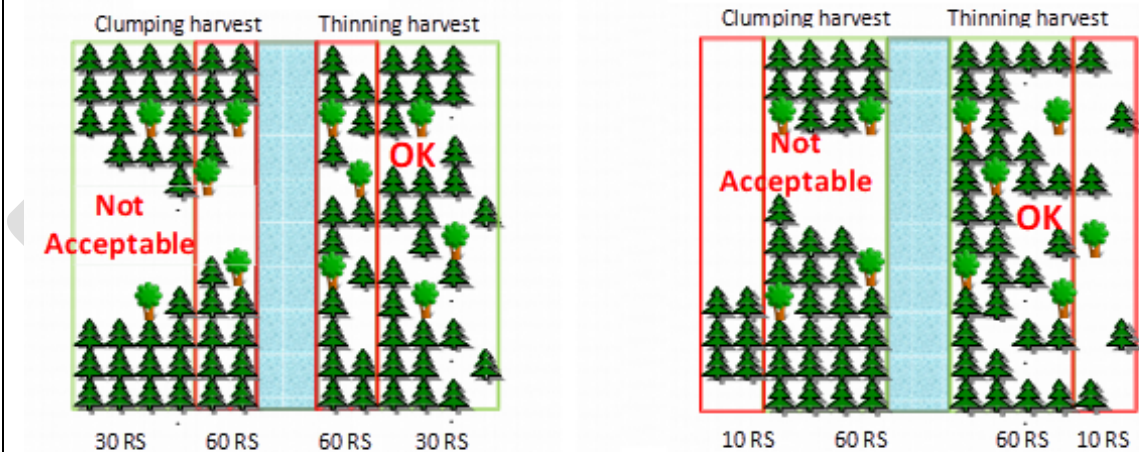


Figure 1. Clumping of retained trees is not an acceptable method.

Each PFS should use professional discretion to determine rule compliance in an initial inspection (just visually inspecting an operation). If ocular estimates are not conclusive, the PFS should cruise the stream reach to determine compliance using the weighted tree count methodology (030.03.e.iii.).

A site-specific prescription is highly recommended in riparian zones where SPZs are located in areas that promise difficulty in retaining live trees throughout the harvesting and burning

operations or where stream orientation, topographic shade, and/or stream width would significantly affect shade availability. Each PFS will use their professional judgment to assess possible silvicultural and harvesting options with operators desiring to mitigate wildfire-threatened or insect infested SPZs.

If an unsatisfactory condition is found, and retention is below minimum standards as a result of the operation, repairs can include limiting harvest in uncut areas adjacent to the stream and/or streamside site preparation and planting. Where stream-adjacent, un-cut areas are not available, harvest may be limited downstream or on a different tributary within the same watershed and ownership.

For a few years following Forest Practice Act rule changes, apply some discretion to accommodate two different rule sets. If a good faith effort was made to follow previous rules some remediation may be necessary but will depend on the PFS's judgement as to whether a violation occurred. With the new retention weighting described in the table below, minimal sampling error is expected from the operator. Tree counting shall start at a harvest unit boundary and continue in 100 foot segments for the extent of harvesting in the SPZ and retention shall be left according to 030.07.e.ii and iv. PFSs will be available to provide assistance.

- iii. Calculate weighted tree count by multiplying the number of live conifers and hardwoods present in each diameter range by the weight below and then sum the results.

Diameter Range (inches)	4-11.9"	12-19.9"	20-27.9"	28-35.9"	≥36"
Weight	1	3	5	8	11

(3-31-22)

GUIDANCE

Worksheets to assist in layout will be available from area PFSs for use in tallying and calculation from the above table.

- iv. Prior to and during harvest, cutting in any part of a given one hundred foot (100') Class I SPZ segment is only allowed if the weighted tree count in the inner fifty feet (50') of that segment is above: thirty-three (33) north of the Clearwater/Lochsa Rivers, twenty-eight (28) between the Clearwater/Lochsa and Salmon Rivers, twenty-three (23) South of the Salmon River, and twenty-one (21) in drier forests with SPZs dominated by Douglas-fir and ponderosa pine. Note that the combination of minimum values for the inner fifty feet (50') and outer twenty-five feet (25') do not meet the minimum for the SPZ segment; additional trees must be left in one or both areas to meet the rule.

(3-31-22)

INTENT 030.07.e.iv.

Retain adequate tree density to provide shade to streams and prevent removal of shade in SPZs where native tree density is limited due to stream adjacent meadows, rocky sites, rights of way or other non-forested conditions.

UNSATISFACTORY CONDITIONS

Harvesting trees in any part of an SPZ segment that does not meet the minimum cutting threshold. Also, cutting the inner 50 feet of an SPZ below the minimum during a harvest operation.

GUIDANCE

If the operator plans to harvest in a SPZ segment, the WTC must be above the cutting threshold within 0-50 feet of the Ordinary High Water Mark. The cutting threshold is not a retention target. The minimum cutting threshold is indicative of an understocked condition. Efforts should be made to concentrate harvesting in the outer 25-40 feet of the SPZ and retain higher density close to the stream. This rule allows for the removal of riparian trees identified as having high value or threatening forest health. Use this stream adjacent harvesting rule as a tool to achieve desired stand outcomes. The resulting stand should be an improvement over preharvest conditions and result in rapid shade recovery from increased productivity. The retention requirements impose inherent harvesting constraints as retaining trees in the outer portion of the SPZ limits the feasibility of felling and skidding trees closer to the stream without damaging those retained.

A variance to the cutting threshold can be granted without a site-specific riparian management plan. In instances where ample shade is available from sources other than woody stems 4" or greater, a PFS can make the determination that harvest can take place within the SPZ. The variance documentation must clearly delineate the approved stream segments and observed conditions justifying the variance, as well as any restrictions for the harvest. Some examples of ample shade include stream orientation and streamside topography which provide natural cooling effects to the water surface or thick brush overhanging a narrow stream channel which prevents solar penetration.

- v. To protect filtering and shade effects of streamside vegetation adjacent to all Class II streams following harvesting and hazard management activities, retain live trees or establish new trees within thirty (30) feet on each side of the streams' ordinary high water mark to comply with the minimum stocking standards expressed in Subsection 050.04. (3-31-22)

INTENT 030.07.e.v.

To protect streamside vegetation within the SPZ of Class II streams to benefit water quality through filtering and shade effects.

GUIDANCE 030.07.e.v.

The intent is that operators will choose to leave or retain healthy trees in sufficient numbers and diameter classes to meet the minimum stocking standards expressed in 050.04; however, an operator may harvest all of the trees out of the Class II SPZ provided the area is replanted according to 050.04. The previous requirement to retain small trees often resulted in decadent trees being left. In many cases it may be preferential to remove those trees to better facilitate the establishment of a new stand with better vigor that will be more effective at providing shade and filtering effects in the long term.

Following site prep, Class II SPZ stands will be evaluated on a case by case basis by the PFS. Use discretion when deciding if “reasonable and prudent efforts” were made to protect the filtering and shade effects of streamside vegetation after completion of harvest and hazard management. If supplemental planting is needed, be sure to assess whether additional stabilization measures are required in the interim (e.g. grass seeding, brush planting, etc.). Reasonable and prudent efforts should include consideration of following during slash-mitigation activities: Ignition sequence (spatial), use of fuel breaks around SPZs, felling and yarding practices (directional/whole-tree/YUM) to reduce slash accumulation adjacent to SPZs, pile locations around SPZs, and burn season (spring preferred).

Remember that shub, grass and rock retention are required under Rule 030.07.e.i. Operators are encouraged to acquire approved site-specific management prescriptions for areas where Class II streams flow in deep V-shaped valleys or other challenging areas prescribed during or other site preparation activities may result in violation of Rule 030.e.i.

- vi. During harvesting, carefully remove timber from the SPZ in such a way that LOD, shading and filtering effects are maintained and protected. When portions of harvested or naturally fallen trees land in or over a Class I stream, leave the portion consistent with the LOD definition of Subsection 010.28. When salvaging uprooted trees, leaving the section with the root ball attached is preferred. (3-31-22)

INTENT 030.07.e.vi.

Trees available for harvest after the requirements in 030.07.e.ii and iv. are met, may be logged in accordance with other applicable rules. To ensure adequate recruitment of LOD, a portion of any tree felled into or over a Class I stream must be left. To allow the salvage of some value without disturbing the natural stream structure.

UNSATISFACTORY CONDITIONS

Vegetation needed for shade and soil stabilization in the SPZ is destroyed through careless forest practices, including slash management.

If trees of sufficient size to meet the LOD definition are felled into or over a Class I stream and are not left in or over the stream.

GUIDANCE

This subsection promotes careful forest practices in the SPZ. Harvest, site preparation or hazard reduction activities must reasonably protect the shading and filtering effects of vegetation, organic debris and duff. For Class II streams surrounded by planned burn units this is particularly important. Dozer piling in the SPZ is prohibited by rule 030.07.c. Class II SPZs can be reasonably protected within the zone through whole-tree removal, low-intensity prescription burns, YUM yarding, or no slashing. Hazard management practices that violate this rule should also be cited under Rule 070.01.

For LOD that has fallen into the stream or below the ordinary high water mark, leaving the entire tree should be encouraged, but is not required. Rather, leaving a portion of the tree equal to the stream width or 20 feet in length is acceptable to meet the intent of the rule to provide for LOD recruitment yet allow capture of some value. Removal of fallen LOD that threatens to block and damage a bridge or culvert requires a variance. Consult with the hydrologist as needed.

If LOD has been removed, repairs can include limiting harvest in uncut areas adjacent to the stream, streamside planting and designed placement of LOD. No special permit is needed to place LOD in the stream provided it is done to mitigate for a cited unsatisfactory condition. Consult with the hydrologist or fisheries biologist as needed.

- vii. During harvesting operations, portions of felled or bucked trees not meeting the LOD definition must be removed, consistent with the slash removal requirements of Subsection 030.06. (3-31-22)

INTENT 030.07.e.vii.

This rule encourages careful operation in the SPZ.

GUIDANCE 030.07.e.vii.

The slash removal requirements in the SPZ are intended to prevent excessive deposit of material that could result in blockage of flow downstream. Slash in SPZs must be hand piled, at least 5 feet from the ordinary high water mark.

- viii. To obtain a variance from the tree retention requirements, the operator must develop a site-specific riparian management prescription and submit it to the Department for approval. The prescription should consider stream characteristics and the need for LOD, stream shade and wildlife cover which will achieve the objective of these rules. (3-31-22)

INTENT 030.07.e.viii.

This rule recognizes the variability of streamside vegetation and the occasional need to customize a harvesting prescription while still achieving the standards of best management practices.

GUIDANCE

This rule recognizes the site-specific riparian management prescription as the alternative to strict shade or leave-tree rule requirements. These prescriptions are intended to be developed

by the operator and submitted to the Private Forestry Specialist as a variance request. Consult the fisheries biologist and hydrologist, when needed.

- ix. Stream width will be measured as average between ordinary high water marks. (3-31-22)
 - f. Limit direct ignition of prescribed burns to hand piles within SPZs; all other direct ignitions must occur outside of SPZs, so a backing (cooler) fire will more likely occur within the SPZ. (3-31-22)
 - i. Hand piles must be at least five (5) feet from the ordinary high water mark of streams. (3-31-22)
 - ii. No mechanical piling of slash or natural forest fuels is allowed in an SPZ (an exception is filter windrows for erosion control which must not be ignited). (3-31-22)
- 08. Maintenance of Productivity and Related Values.** Design harvesting practices to assure the continuous growing and harvesting of forest tree species by suitable economic means and to protect soil, air, water, and wildlife resources. (3-31-22)

INTENT 030.08

This rule requires a balance between the economic value of continuous tree growth and harvest, and the social, economic, and other values of soil, air, water, and wildlife protection. In most harvest operations, resource protection and harvest can be accomplished simultaneously. The subparagraphs of this rule describe certain situations where resource protection values may require special practices.

GUIDANCE

Violations normally are issued only for the specific sub-paragraph that best applies.

- a. Where major scenic attractions, highways, recreation areas or other high-use areas are located within or traverse forest land, give special consideration to scenic values by prompt cleanup and regeneration. (10-14-75)

INTENT 030.08.a.

This rule is advisory in nature and does not preclude harvesting nor place restrictions on harvesting methods due to scenic values.

This rule puts special emphasis on expeditious cleanup and reforestation in and around forested scenic attractions, recreation areas, and highways.

This rule encourages that a reasonable attempt should be made (considering time of year, unit layout, and post-harvest treatments) to treat slash and begin reforestation prior to the standard time-frames.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when a harvest unit near a major scenic attraction, highway, or recreational area is not promptly cleaned up after harvest or is not reforested within the time limits prescribed in Rule 050.

GUIDANCE

This rule may be used to support other rules to expedite cleanup and reforestation after logging. Cleanup means any post-harvest requirement and includes providing road drainage, landing/skid trail stabilization, and treatment of waste material and slash.

"Located within or traverse forestland" refers to those harvest units visible from the scenic attractions. Voluntary compliance with visual management guidelines should be encouraged.

b. Give special consideration to preserving any critical aquatic or wildlife habitat, including snags, especially within SPZs. Wherever practical, preserve fruit, nut, and berry producing trees and shrubs. (3-31-22)

INTENT 030.08.b.

This rule is generally advisory in nature. Operators who employ Best Management Practices (FPA Rules) should inherently be in compliance with the intent of this rule. Snag retention is encouraged to provide needed wildlife habitat and nutrient cycling.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when an operator or landowner is not making a prudent effort to adequately protect critical wildlife or aquatic habitat during forest practice operations. Normally, an unsatisfactory condition could be better addressed under another practice-specific rule.

GUIDANCE

Operators should be aware of habitat on or adjacent to their operating area and modify their activities to maintain the primary function of the habitat, such as scheduling an operation to avoid disturbing elk during calving season, or eagles during nesting and fledgling stages.

When a PFS becomes aware of a potential conflict between a proposed or active forest practice and a threatened, endangered or protected nongame species, the PFS will recommend to the operator that he/she contact the appropriate agency (USF&W, NOAA Fisheries, or IDF&G) for consultation.

The Forest Practices Act recognizes the importance of wildlife habitat but is not the enforcement mechanism for regulations promulgated and/or administered by other agencies.

c. Avoid conducting operations along or through bogs, swamps, wet meadows, springs, seeps, wet draws or other locations where the presence of water is indicated by associated vegetation; temporary crossings can be used as referred to in Paragraph 030.07.b. Protect soil and vegetation from disturbance which would cause adverse effects on water quality, quantity and wildlife and aquatic habitat. (3-31-22)

INTENT 030.08.c.

To protect soil and vegetation in areas such as swamps, wet meadows, springs, seeps, bogs, and draws, preventing damage to water quality, quantity, and aquatic or wildlife habitats. Determination of "wet areas" should primarily rest on the presence of "water-loving" vegetation (e.g., skunk cabbage, cattails and aquatic reeds) and the appearance of water-saturated soils. Leave filter strips of undisturbed soil and vegetation around wet areas.

If the wet area can be crossed with a temporary crossing that will result in minimal disturbance to the wet area and the associated vegetation, then crossings may be installed and used in accordance with the requirements expressed in rule paragraph 030.07.b.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when there is disturbed soil and vegetation around a wet area, draw, etc. that creates adverse impacts on water quality and aquatic habitat.

GUIDANCE

Operate on snowpack or frozen conditions during skidding, to avoid disturbing soil and vegetation. This rule applies to draws that carry water seasonally and have a down-drainage impact on water quality. Operations within a wetland may require an Army Corps of Engineers (COE) special permit if more than 200 yards of fill material are involved. Consider a minimum twenty (20) foot vegetative filter around wet areas. There are no special COE requirements for conducting forest practice operations in wetlands if all applicable FPA rules are satisfactorily implemented. If an operator fails to apply applicable rules (BMPs) in a wetland, the COE should be notified.

Any installed temporary crossings must be pulled with minimal disturbance at the end of the harvesting operation.

- d.** Harvesting operations within a single ownership, in which essentially all trees have been removed in one operation, must be planned so that adequate wildlife escape cover (e.g., topography, vegetation, SPZs, etc.) is available within one-quarter ($\frac{1}{4}$) mile. (3-31-22)

INTENT 030.08.d.

To retain escape cover for viable wildlife populations. Successful wildlife management requires diversity of vegetative covers.

To be applied to individual ownerships and does not consider the management practices applied to adjoining ownership parcels.

UNSATISFACTORY CONDITIONS

Within an ownership, an unsatisfactory condition exists when adequate wildlife escape cover is not available within one-quarter ($\frac{1}{4}$) mile of any portion of a unit where all the timber cover has been removed.

GUIDANCE

The rule does not restrict the overall size of a harvest unit where all timber is removed but does affect its shape. Escape cover is referring to line-of-sight distances. Escape cover is provided by those physical structures that either break the line of sight, or because of physical attributes, are conducive to wildlife movement. Private Forestry Specialists should work closely with wildlife biologists when unit size and shape may affect escape cover.

This rule is not intended to require one landowner's operation to compensate, by providing escape cover, for the actions of adjacent landowners. Where escape cover is lacking because of adjacent land use practices, the Private Forestry Specialist should encourage voluntary application of this rule on the affected ownership.

031. Cumulative Watershed Effects Guidance

031. CUMULATIVE WATERSHED EFFECTS.

01. Purpose. In accordance with Section 38-1305(8), Idaho Code, the Department has developed methods for controlling cumulative watershed effects (CWE). The methods and procedures are described in the department manual entitled “Forest Practices Cumulative Watershed Effects Process for Idaho.” Proper application of this process will help ensure watersheds are managed to protect water quality so that beneficial uses are supported. This rule describes how the process is to be implemented on forest land. (7-1-98)

INTENT 031.01

To recognize the CWE process, as described in the manual, as the mechanism to conduct watershed assessments on Idaho forestlands. The referenced code does not dictate how CWE will be implemented; therefore, rule paragraphs that follow describe how the process will be applied. As this purpose statement does not contain operator requirements, it will not be used for enforcement.

GUIDANCE

While the CWE manual is cited by reference in this rule, its procedures are not specifically recognized as administrative rules subject to Administrative Procedures Act rulemaking—and as a result have become antiquated in their descriptions of procedures. Comprehensive watershed assessments are generally carried out by Idaho DEQ as part of its TMDL analysis process, and watershed advisory groups (WAGs) now work with DEQ to develop voluntary TMDL Implementation Plans.

02. Process Application. (7-1-98)

a. Application of the CWE process and any resulting site-specific BMPs are encouraged but not mandatory. (7-1-98)

b. The process may be initiated by either the Department, a watershed advisory group, or an individual landowner or group of landowners that collectively own at least twenty-five percent (25%) of the forested land in a watershed. In any case, a reasonable effort will be made to notify forest landowners within the watershed, and the landowners will be given the opportunity to participate in the process. (7-1-98)

c. The Department must be notified prior to the initiation of the CWE process. (3-31-22)

d. The Department will review and approve the watershed assessment and CWE site-specific BMPs for compliance with the Act. (3-31-22)

INTENT 031.02

To describe who may initiate the CWE implementation process and requires the department be notified when the process is started. For accountability purposes, the department will review and approve all CWE watershed assessments and resulting site-specific BMPs. While notification and approval of the CWE process is required, there is no requirement to use the process or apply all best management practices developed from it.

03. Site-Specific BMP Implementation. Site-specific BMPs developed by a watershed advisory group are encouraged and applied on a voluntary basis. (3-31-22)

INTENT 031.03

This rule formally recognizes the voluntary application of CWE-related BMPs (CWEMPs). If an operator or landowner is not voluntarily applying CWE site-specific BMPs, the Private Forestry Specialist should encourage voluntary compliance in the comments section of an inspection report. Emphasis should be placed on reasons why the BMPs should be followed.

DRAFT

040. Road Construction and Maintenance Guidance

040. ROAD CONSTRUCTION, RECONSTRUCTION AND MAINTENANCE.

01. Purpose. Provide standards and guidelines for road construction, reconstruction, and maintenance that will maintain forest productivity, water quality, and fish and wildlife habitat. (4-5-00)

INTENT 040.01

To provide a framework for the road construction, reconstruction and maintenance rules. In general, it will not be used for enforcement. The rule lists forest productivity, water quality, and fish and wildlife habitat as protected resources. Individual rules in this section often address only the prevention of materials entering streams, however, materials entering streams may impact water quality and aquatic habitat. A logical, systematic, practical approach to road location, design, construction, and maintenance is the goal of this section.

GUIDANCE

Routine road maintenance not associated with a specific forest practice does not require notification and includes culvert cleaning, road grading, occasional installation of culverts that do not convey streams, spot rocking, brush cutting, roadside weed control or dust abatement spraying.

Spot rocking refers to adding rock to a specific short segment of road (50 – 100 ft.) generally in response to the development of a soft roadbed.

Road construction/reconstruction requires a notification and includes installation or replacement of stream crossing structures such as bridges and culverts, alteration of road cut and fills, road resurfacing, clearing and grubbing of brush to reopen old roads, and substantial modification of road drainage (i.e., installation of rolling dips, inside ditches, berms, in-sloping or out-sloping).

02. Road Specifications and Plans. Road specifications and plans must be consistent with good safety practices. Landowners and Operators should plan each road to the minimum use standards adapted to the terrain and soil materials to minimize disturbances and damage to forest productivity, water quality, fish, and wildlife habitat. In addition, landowners and operators must: (3-31-22)

INTENT 040.02

This is the purpose statement for rules covering road design, plans and specifications. Specific planning rules are developed under its framework. Road design should protect water quality through proper location and the engineering of cut and fill slopes, drainage, and road grade. Water quality, fish and aquatic habitat are the primary resources being protected. Operational safety is a major concern and design element.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists if location and/or design specifications on new and reconstructed roads fail to provide proper drainage and protect area resources.

GUIDANCE

Typically forest roads are not engineered and formal plans are not drafted for review. With the exception of culverts(rule 040.02.e), once construction has begun cite issues related to poorly planned roads using 040.03.a and refer to these planning rules to support the case. Violations to this rule only apply when more specific subparagraphs of 040.02, 040.03, or 040.04 do not appropriately address the situation. Compliance with 040.02 rules is best addressed during pre-operational inspections.

While safety is a goal, any compliance safety issues associated with forest practices fall under the jurisdiction of the Department of Labor, Logging Safety Division, and should be referred to them.

Displaced rocks, debris or logs generated during road construction can cause a safety hazard on a public road. Clearing public roads of such debris or taking legal action against the responsible party falls under local/state highway jurisdiction. Highway officials should be notified immediately if this situation arises.

- a. Plan transportation networks to avoid road construction within SPZs, except at approaches to stream crossings. Leave or reestablish areas of vegetation between roads and streams. (3-31-22)

INTENT 040.02.a.

To prohibit the construction or reconstruction of roads within the stream protection zone (SPZ). Roads are a major source of sediment and can adversely impact water quality and fisheries habitat. Where roads must cross SPZs this requires vegetative filter strips between roads and streams to mitigate surface erosion.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when roads (except for approaches to crossings) are planned within the SPZ. Vegetation filters should be left between roads and streams.

GUIDANCE

To prevent a violation, plan roads outside the SPZ and ensure that the vegetative filter strip is wide enough to trap sediment between roads and stream. Except for approaches to stream crossings, road construction or reconstruction of significant extent within the SPZ requires a variance.

- b. Plan roads no wider than necessary to safely accommodate the anticipated use. Minimize cut and fill volumes by aligning the road to fit the natural terrain features as closely as possible. Adequately compact fill material. Dispose of excess material on geologically stable sites. (3-31-22)

INTENT 040.02.b.

To keep road width appropriate for intended use. Narrower roads limit construction activity and potential disturbance in the surrounding area. Compaction is required and should be planned for in the design process. All excess material from cut and fill operations should be stabilized or removed to prevent erosion and subsequent impacts to water quality.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when exposed road waste material poses a threat to the water quality of nearby streams or when roads are not adequately compacted.

GUIDANCE

Except for the compaction requirement, this rule may be difficult to enforce because the terms "wider than necessary" and "anticipated use" are subjective; however, failure to comply with this rule usually involves noncompliance with 040.03 rules; enforceable under road construction. The Private Forestry Specialist should refer to this rule if road width may present a hazard to water quality. Determining if adequate compaction has occurred is best dealt with under road construction rules.

Geotechnical advice may aid decisions dealing with road waste disposal. Since this rule's ground application has operational and technical limits, it should remain advisory and not subject to full enforcement procedures. If waste material is a problem, emphasize planned location of waste or borrow areas and ways to stabilize exposed material. Road construction or maintenance rules (040.03 and 040.04) offer clear guidelines for enforcement actions regarding excess waste material.

c. Plan roads to drain naturally by out-sloping or in-sloping with cross-drainage and by grade changes where possible. Install dips, water bars, cross-drainage, or subsurface drainage on roads when necessary. (3-31-22)

INTENT 040.02.c.

This rule requires a road surface and subsurface drainage system to prevent water accumulation and resulting erosion. Use out-sloping, rolling dips, and changing grades as drainage methods to control surface drainage, when feasible. Provide subsurface drainage where needed in critical locations.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when roads lack appropriate and adequate drainage.

GUIDANCE

New roads lacking proper drainage should be enforced under road construction Rule 040.03. Existing roads should be enforced under road maintenance Rule 040.04. Consult with the geotechnical specialist if needed to help design for subsurface drainage. This rule can be cited in cases where subsurface drainage is an issue.

d. When natural drainage will not protect the surface, cut slopes or fill slopes, plan roads with relief culverts and roadside ditches. Install culverts to prevent erosion of the fill by properly sizing, bedding and compacting. Ensure drainage structures avoid direct discharge of sediment into streams. (3-31-22)

INTENT 040.02.d.

To prevent road erosion and water quality damage due to improper drainage. Poor culvert installations or too few cross-drains can cause erosion of fill material and the road subgrade. Improperly installed culverts significantly increase the risk of future failures. Drainage structures should be installed in roadside ditches above stream crossings to filter muddy ditch water through vegetative zones or otherwise prevent sediment from entering streams.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition occurs when culvert installations are inadequate or too infrequent to stop erosion of road fill and impact water quality. Ditches should not deposit sediment in streams.

GUIDANCE

This rule applies to new roads under construction. Violations for recently completed or existing roads are issued under road construction or road maintenance rules. Correction of an unsatisfactory condition under this rule may require culvert relocation, reinstallation or placement of additional drainage structures. Installation of a filtering or settling system may be needed to filter sediment from ditches or cuts and fills.

e. This rule applies to new culvert installations, or reinstallations during road reconstructions or because of catastrophic events. Temporary culvert crossings are exempt from the fifty (50) year peak flow design requirement but must be removed before seasonal run-off. (3-31-22)

i. Culverts in fish-bearing streams must provide for fish passage. (3-31-22)

UNSATISFACTORY CONDITIONS 040.02.e.i.

An unsatisfactory condition exists when a culvert installation does not provide for fish passage. This can be due to an outlet drop of 1 foot or greater, an inlet drop, maximum flow velocities exceeding those allowable for the fish type, or if minimum water depths are less than those needed for the fish that are present. The PFS should consider the natural, current water depth in the stream relative to the minimum water depth requirements in evaluating the status of a culvert.

GUIDANCE

According to the Stream Channel Alteration Rules (IDAPA 37, Title 3, Chapter 7), fish passage criteria at culverts includes:

- Minimum water depth shall be approximately eight (8) inches for salmon and steelhead and at least three (3) inches in all other cases (Rule 062.04.g.).
- Maximum flow velocities for streams shall not exceed those shown in the Alaskan Curve for more than a forty-eight (48) hour period. The curve used will depend on the type of fish passing (Rule 062.04.h.). For a culvert that is less than or equal to 40 feet long and when the fish type is a trout, then the maximum allowable flow velocities are approximately 4 feet per second (ft/s). Use the following Hydraulic Design table for these culverts (≤ 40 ft.) when the fish type is trout, to determine if the flow velocities in a culvert will meet the velocity criteria of 4 ft/s (assuming that the culvert is sized according to the Culvert Sizing Tables in the following section (ii.)).

Drainage Area (Acres)	Maximum Allowable Slope of Installed Culvert
<201	3%
201-350	2%

351-1000	1%
1001-2600	0.5%
2601-8200	0%

- Where fish passage must be provided, upstream drops at the entrance to a culvert will not be permitted and a maximum drop of one (1) foot will be permitted at the downstream end if an adequate jumping pool is maintained below the drop (Rule 062.05.a.). Generally an adequate jumping pool exists when the ratio of the outlet drop height to the jumping pool depth is 1:1.25.

Fish passage must be provided for permanent and temporary culverts; however, temporary culverts need only consider the short-term season of use. Adequate fish passage is determined by site-specific reference migration criteria. In a questionable case, consult the fisheries biologist. In high flow situations, consider installing detachable welded fish ladders for culverts with a gradient less than 4 percent. If installing a fish ladder will compromise the 50-year flow requirement, additional measures are needed.

More stream crossing options that allow for fish passage can be found in the Forester Forum [FPA 12, Fish Passage Guidelines When Installing Stream Crossings](#). Generally, if the stream gradient and drainage area for the stream crossing do not meet the requirements shown in the Hydraulic Design chart, then a structure that will allow for stream channel simulation should be considered (e.g., bridge, open-bottom structure, buried pipes, etc.)

The Private Forestry Specialist (PFS) should make sure the operator installing a culvert crossing structure for fish-bearing streams clearly understands the installation specifications. To ensure that the specifications are met, the PFS will need to take measurements using a surveyor's level and rod. It is important that the operator knows up front the required accuracy and allowed tolerances. Culverts that do not meet the specification for fish passage will need to be re-installed. Therefore, it is important that the installation of culverts for fish passage are discussed with the operator and documented on an inspection report.

- ii. Design stream crossings to carry the fifty (50) year peak flow using Department accepted engineering methods or the culvert sizing table below. Armor the inlet or use a flared inlet structure on thirty (30) inch or greater diameter culverts. The minimum diameter culvert allowed is eighteen (18) inches.

CULVERT SIZING TABLE

The left side of this culvert sizing table will be used for the area of the state north of the Salmon River and within the South Fork Salmon River drainage; the right side will be used for the area of the state south of the Salmon River and outside the South Fork Salmon River drainage. It was developed to carry the fifty (50) year peak flow at a headwater-to-diameter ratio of one (1).

North Forest Region and South Fork Salmon River Drainage		South Forest Region	
Watershed Area (acres)	Required Culvert Diameter (inches)	Culvert Capacity (in cubic feet/sec)	Watershed Area (acres)
Ditch relief, seeps, springs, wet areas, draws	12	NA	Ditch relief, seeps, springs, wet areas, draws

less than 32	18	6	Less than 72
33 - 74	24	12	73-150
75 - 141	30	20	151-270
142 - 240	36	32	271-460
241 - 366	42	46	461-720
367 - 546	48	65	471-1025
547 - 787	54	89	1026-1450
788 - 1027	60	112	1451-1870
1028 - 1354	66	142	1871-2415
1355 - 1736	72	176	2416-3355
1737 - 2731	84	260	3356-5335
2732 - 4111	96	370	5336-7410
4112 - 5830	108	500	7411-9565
5831 - 8256	120	675	9566-11780

Culverts larger than one hundred twenty (120) inches must be designed; consider alternative structures. (3-31-22)

iii. Relief culverts, and those used for seeps, springs, wet areas, and draws must not be less than twelve (12) inches in diameter for permanent installations. (3-31-22)

INTENT 040.02.e.iii.

To describe design requirements and minimum culvert sizes for permanent and temporary stream crossings and relief culverts, draws, seeps and wet areas. All culvert installations on Class I streams must provide for fish passage. All permanent stream-crossing installations must be designed to carry the 50-year peak flow.

To prevent road erosion and water quality damage during peak runoff and reduce culvert maintenance. Culverts smaller than the prescribed standard have an unacceptably high risk of failure. The tables are provided for use if site-specific 50-year design expertise is unavailable or cost-prohibitive.

UNSATISFACTORY CONDITIONS

Unsatisfactory conditions exist if culverts do not provide for fish passage. Unsatisfactory conditions exist when new, permanent stream crossing culvert installations are not sized for the 50-year event; when culverts measure less than 15/18 inches; when other permanent culvert installations (relief culverts, etc.) are less than 12 inches; or when temporary crossings or culverts are not removed prior to spring runoff.

GUIDANCE

Fish passage must be provided for permanent and temporary culverts according to the previous section of this rule (i).

The rule does not intend to require the replacement of culverts in use prior to the original effective date of this rule (4/92). Failed culverts will be replaced according to this rule. "North of the Salmon River" refers to the river itself, not the drainage, and north of the town of North Fork.

A culvert can be sized for a 50-year event and not meet the size requirements of the table, if an appropriate design methodology is used to determine pipe size. There are a number of acceptable 50-year design methods; consult the IDL hydrologist for an updated list. Generally, infiltration-limited models (Talbot's formula, rational rule) are not acceptable. The table is based on a flow frequency analysis model. This model's regional regression equations can be used to more accurately calculate site-specific discharge. Once discharge is calculated and other factors considered [culvert type (round, squash), inlet type (mitered, headwall, projecting), and headwater/diameter ratio, a nomograph can be used to specifically determine pipe diameter.

In the case of smooth plastic pipe, a smaller culvert diameter may meet the minimum specified capacity (cubic feet/sec) in the table. Engineering specifications for such installations can be provided with the notification and approved for use without a variance. Fish passage rules still apply and may impact the ability to use smooth culverts.

Temporary crossings include culverts not sized for a 50-year event, culverts below the minimum 15 or 18-inch size, log culverts or snow bridges. When installing temporary crossings, maintain bed and bank integrity as much as possible. Remove temporary crossings with minimum disturbance to stream bank and avoid soil deposition in the stream. Stabilize banks as needed.

The CFS (at headwater/depth of one, projecting entrance) for 12 inch culverts is 2.2 and for 15 inch culverts is 3.6.

f. On existing roads that are not reconstructed or damaged by catastrophic events, landowners or operators are encouraged, but not required, to replace or provide mitigation for culverts that do not provide for fish passage in accordance with Subparagraph 040.02.e.i. or cannot carry the fifty (50) year peak flow of Subparagraph 040.02.e.ii. (4-11-06)

INTENT 040.02.f.

To stress the importance of insuring fish passage. This rule is advisory only.

g. Plan and install stream crossings in compliance with the Stream Channel Protection Act (Title 42, Chapter 38, Idaho Code), Paragraph 030.07.b. and the culvert sizing requirements of Paragraph 040.02.e. Fords are acceptable stream crossing structures on small, shallow streams, with gradients less than four percent (4%). For fords: cross-drain and rock the road surface on each side of the stream for at least seventy-five (75) feet for Class I and at least thirty (30) feet for Class II streams; minimize sediment delivery to streams by limiting use to low water, dry, or frozen conditions; minimize hauling or equipment crossing trips during times of salmonid spawning and egg incubation. (3-31-22)

INTENT 040.02.g.

To require compliance with the Stream Channel Protection Act (SCPA) and the referenced culvert rule for road stream crossings.

To acknowledge fords as an acceptable stream crossing structure under certain conditions.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when the crossing is not in compliance with the Stream Channel Protection Act and rule 040.02.e., where fords do not meet the conditions stated in the rule or any prescription provided for the use of fords exempt from SCPA requirements.

GUIDANCE

IDL has an MOU with IDWR to facilitate the Stream Channel Alteration Permit process when operators are installing stream-crossing structures on perennial streams as part of a forest practice. Operators should request a Supplemental Notification Form from the Private Forestry Specialist when installing stream channel alterations. The Supplemental Notification Form defines stream-crossing structure parameters that can be done under IDL's authority to approve the installation.

Failure to comply with the Supplemental Notification Form requirements will be cited under this rule. IDWR should also be notified, through the Regulatory Program Manager, of any violations associated with this rule. For structures outside the scope of the MOU, the Private Forestry Specialist should tell operators of their responsibility under the SCPA and refer them to IDWR. Installation of larger stream-crossing structures may require a Joint Permit (Sect. 404 permit from the US Army Corps of Engineers and IDWR Stream Channel Alteration Permit).

A variance is not needed to use a ford, however provisions associated with the MOU will apply on constructed/reconstructed fords on perennial streams. If a Supplemental Notification Form is not needed, ford use guidelines that would normally be detailed on the supplement (limit use to low water conditions, limit daily hauling, avoid use during spawning, rock and drain approaches) should be detailed in an inspection report and are enforceable under this rule.

Provisions of the MOU and applicable FPA rules must be followed to replace bridges or stream culverts, but a variance is not required.

The incidental crossing, over and back, of a stream with road building equipment in and of itself does not require a MOU permit or variance. Soil disturbance must be minimized and the equipment in a condition where petroleum products will not leak, or enter by contact, into the stream.

h. Avoid reconstruction of existing roads located in SPZs, except for approaches to stream crossings, unless it will result in the least long-term impact on site productivity, water quality, and fish and wildlife habitat. Reconstruction of existing roads in SPZs requires a variance. Reusing existing roads in SPZs for skidding or landing logs requires a variance. Reusing existing roads in SPZs only for hauling fully suspended logs does not require a variance. (3-31-22)

INTENT 040.02.h.

To discourage the use of roads located in the SPZ that will cause disturbance to soils or vegetation. It also allows for the use of existing roads located in the SPZ for hauling, when it does not result in any disturbance.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition occurs when a forest road, in the SPZ, is reconstructed or reused for skidding, landing, processing or decking logs, without an approved variance.

GUIDANCE

This rule applies to roads, not publicly maintained, used in conjunction with a forest practice. This rule does not apply to road approaches to stream crossings or the crossings themselves, but rather to roads that are within the SPZ and parallel a stream for a significant distance.

A commonly requested variance is for reuse of existing roads in SPZs (versus new construction outside the SPZ) that may pose a greater risk to stream sedimentation. Reuse is acceptable if the road is stable, does not need significant equipment work or vegetation removal to reopen, and an adequate filter strip of vegetation exists between the road and the stream (to trap sediment and provide for shade, bank stabilization, water filtration and LOD). It generally is not acceptable if the road is unstable, revegetated with trees sapling size or larger or infringes upon the ordinary high water mark. On occasion, the old road is the only way into a stand or is the deeded access. If such a road is not suitable for forest practice use, the Private Forestry Specialist should guide the operator to develop an alternative access, logging method, or apply other mitigation.

Decisions should be made based on which option would cause the least long-term impact on site productivity, water quality, and fish and wildlife habitat.

Reuse of existing roads routinely occurs for such activities as log hauling and forest management. The passage over a road for these purposes, where no reconstruction is needed, does not violate any rules and variances are not required. The prohibition on reuse in this rule refers to skidding (including forwarders and cut-to-length systems), using the road as a landing or to yard from.

Routine road maintenance is addressed under the road maintenance rules and does not require a variance. Such maintenance includes culvert cleanout, road grading, installation of culverts that do not convey streams, spot rocking, brush cutting or spraying, and applying dust abatement.

When an existing road is planned for reuse, the following are considered reconstruction activities:

1. Extensive road surfacing of a native surface road thereby converting it into an improved secondary or main haul road. Resurfacing of an existing rocked road or spot rocking is considered maintenance.
2. Alteration of cuts and fills
3. Clearing and grubbing of brush
4. Substantial modification of road drainage

When these activities take place within the SPZ, a variance will be required.

Replacement of stream crossing structures is a reconstruction activity. Address stream crossings in the related stream crossing rules, since this rule is concerned with road reconstruction/reuse in the SPZ and not activity below the ordinary high water mark.

03. Road Construction. Landowners and operators must use the following practices to construct or reconstruct roads in a way that prevents debris, overburden, and other material from entering streams. (3-31-22)

INTENT 040.03

This is the purpose statement for road construction rules and the framework under which specific rules are developed. The debris, overburden, and other excess materials associated

with road construction must be stabilized in a location outside the SPZ, where it will not enter streams.

UNSATISFACTORY CONDITIONS

Placing or leaving road construction materials where they threaten the water quality of streams is an unsatisfactory condition.

GUIDANCE

Construction rules are intended to apply to forest roads, not publicly maintained roads or roads used for other land uses. Only cite this rule when a more specific subparagraph cannot be applied.

- a. Construct roads in compliance with the planning guidelines of Subsection 040.02. (3-31-22)

INTENT 040.03.a.

To require that road construction comply with the planning guidelines in Rule 040.02.

GUIDANCE

Violations are normally not issued. Specific problems with road planning, construction, and maintenance rules are addressed under the appropriate subparagraph. Some conditions addressed in the planning rules are not specifically mentioned in the construction and reconstruction rules; reference the planning rules to support cited infractions during reconstruction and construction when they provide more specificity.

- b. Clear all debris generated during construction or maintenance which potentially interferes with drainage or water quality. Deposit excess material and slash on geologically stable sites outside the SPZs. (3-31-22)

INTENT 040.03.b.

To maintain proper drainage through removal of materials that may plug drainage ways or culverts. Drainage ways include man-made drainage ditches or natural drainage features such as draws or swales. Excess materials associated with road construction must be stabilized in a suitable location outside the SPZ.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when water quality and aquatic habitat are damaged or have potential to be damaged by road construction debris that plugs a drainage way or culvert or when unstable waste material and slash have been placed inside the SPZ.

GUIDANCE

Violations may be avoided by keeping excess debris from drainage ways and placing removed debris where it will not cause blockage. Sloughing cut banks or poor road grading practices are a common cause of drainage way blockage. Corrective measures must be completed before heavy rains or runoff events, to prevent debris jams and plugged culverts.

Excess road construction materials should be removed from unstable locations or from the SPZ and/or stabilized through riprapping, compacting, revegetation, or other measures. Except for

approaches to stream crossings, roads should not be built in SPZs unless a variance has been granted.

c. Where sediments would enter streams, stabilize exposed material (road surface, cut slopes, fill slopes, borrow pits, waste piles, etc.) prior to seasonal runoff. Install supplemental stabilization measures such as seed and mulch, slash mats, or rock. Rock the road surface through the entire SPZ over Class I stream crossings.(3-31-22)

INTENT 040.03.c.

To prevent erodible material associated with roads from directly entering streams, from affecting soil productivity or from triggering a landslide in geologically unstable areas.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when potentially erodible material has not been adequately stabilized or adequate surfacing has not taken place in SPZ

GUIDANCE

Erodible materials must be stabilized or removed before heavy rains and seasonal runoff to prevent surface erosion or possibly triggering a landslide. Corrective measures and timing of installation must be considered when determining what constitutes effective stabilization. Grass seeding and mulching is a long-term stabilization measure that does not provide the more immediate stabilization benefits of installing filter windrows, straw bales, silt fences, compacting, or riprapping. Compacting fill material *as it is placed* in shallow lifts (not after) also provides immediate benefits.

d. Compact road fills. Minimize snow, ice, or frozen soil buried in embankments. Significant woody material is not allowed in fills, but slash may be used as a filter windrow along the fill toe in compliance with the Idaho Forestry Act and Fire Hazard Reduction Programs, Title 38, Chapters 1 and 4, Idaho Code. (3-31-22)

INTENT 040.03.d.

To require that road fills be properly compacted to reduce water penetration, surface erosion and the potential for fill failure to damage streams and site productivity. The burying of slash, logs, and other large quantities of organic material in road fills is prohibited, regardless of proximity to streams. Road subgrades should be cleared down to mineral soil to comply with the intent of this rule.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when slash, logs, other large quantities of organic material or snow/ice have been buried in a road fill. A violation also exists when road fills have not been properly compacted.

GUIDANCE

Burying of woody debris is prohibited in roads and landings (040.03.d. and 030.04.c.). In situations where damage has not yet occurred, it is often difficult to determine if enough buried debris is present to cause failure. The geotechnical specialist may help determine the potential for a slide and the effectiveness of various stabilization measures.

Gradual decomposition of large organic material can cause road fill to settle and weaken the fill's support. In advanced stages, organic material decomposition causes voids and piping which ultimately cause fill failure. Large quantities of organic material consisting of small debris (needles, duff, grass, or ferns) also create a potential problem on roads constructed on steep, unstable slopes.

Proper compaction is critical in preventing fill failure. Fill should be relatively free of organic material and may require retaining structures or riprapping for stability. Some stabilization measures, such as grass seeding, have limited value in stabilizing uncompacted road fills in steep terrain. Minor fill tension cracks may be the result of normal settling or may indicate a failure in the making.

Stabilizing measures should be completed before fall rains or other wet periods. Appropriate treatment of buried debris includes the removal of organic material from the fill. This removal may disrupt road stability; care must be exercised to restore the road to a stable condition.

Slash filter windrows can be constructed and are encouraged at the toe of fills at road approaches to crossings, but should not extend across the stream channel.

- e. During and following operations on out-sloped roads, retain out-slope drainage and remove berms on the outside edge, except those intentionally constructed for road grade fill protection. (3-31-22)

INTENT 040.03.e.

To provide for adequate surface drainage on out-sloped roads during and following construction.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when surface drainage is inadequate, out-sloping was not provided or there is potential for surface erosion.

GUIDANCE

Flexibility and discretion should be used in the administration of this rule. There are a number of techniques other than out-sloping that provide adequate surface drainage on roads. Adequate surface drainage must be provided at all times through out-sloping, in-sloping and piping, crowning, or other techniques. Outside berms should be removed except where necessary to protect fill slopes from surface water.

- f. Provide for drainage of quarries to prevent sediment from entering streams. (8-13-85)

INTENT 040.03.f.

To require adequate drainage of rock quarries or borrow pits to prevent sediment from reaching a stream.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition develops when eroded sediment from rock quarries or borrow pits reaches streams.

GUIDANCE

To prevent sediment from leaving the pit and entering a stream, provide drainage such as cross-ditching at the pit entrance and along the access road. Where there is potential for a significant amount of sediment to be transported, sediment traps should be used. Methods for controlling sediment are covered in detail in the *Idaho Surface Mining Act – Best Management Practices*.

Regardless of size, when rock (either processed or in the rough) is sold, the rock pit or quarry must be permitted by IDL under Section 47-1509, Idaho Code.

g. Construct cross-drains and relief culverts to minimize erosion. Use riprap, vegetative matter, downspouts, and similar devices to minimize erosion of the fill. Install drainage structures or cross-drain incomplete roads prior to seasonal runoff. If effective forest floor filtration is not available within SPZs, install supplemental filtration at drainage structure outlets or additional drainage structures outside SPZs to prevent road surface erosion from entering streams. (3-31-22)

INTENT 040.03.g.

To require drainage structures to minimize erosion of fill slopes, embankments below culverts and road surfaces, especially on uncompleted roads. Drainage must be installed concurrent with construction.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when erosion of fill slopes, embankments, and road surfaces occurs because preventative measures were not installed in a timely manner.

GUIDANCE

At culvert installation sites, erosion control measures such as riprap, mulch, downspouts and other devices minimize the impact of water discharging directly onto erodible fill material. In some situations, the lack of armor at the culvert head or outfall allows eroded cut/fill material to damage water quality. Relief culverts with a minimum grade of 1%, and ideally 3%, should be installed to prevent sediment from settling and causing blockage. Consider using sediment catch basins at the culvert entrance to minimize sediment entry.

Temporary erosion control structures should be in place on pioneer or incomplete roads within a few days of initial construction, regardless of wet weather season timing. All permanent drainage structures or erosion control measures should be installed concurrent with final road work, or if the road is incomplete, prior to seasonal rains.

h. Postpone earthwork or material hauling during wet periods if erodible material would enter streams. (3-31-22)

INTENT 040.03.h.

Road construction and other earthwork (ROW log or rock hauling) should be halted during excessively wet periods when the soil is vulnerable to erosion.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when there is potential for serious soil erosion and the operator has ignored weather conditions and has continued to haul or run heavy equipment.

GUIDANCE

Several options can prevent erosion during wet periods. Construction activity may be halted or limited (e.g., installing drainage on a pioneer road before pioneering more road) or equipment type may be limited (i.e., a small excavator instead of a large dozer). Measures should be taken before deep soil disturbance or excessive erosion occurs.

Placing restrictions on hauling is a judgment call; where this may be a concern, an inspection report should state hauling limitations. If a road is damaged due to hauling during wet weather, require mitigation to bring the road back to an acceptable standard.

- i. Remove or stabilize cut-slope material subject to sloughing concurrent with construction.(3-31-22)

INTENT 040.03.i.

To require that cut slope sloughing be mitigated, if there is potential for slumps and debris to block road drainage

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when cut slopes overhang and create the potential for slumping and road drainage obstruction or when the unstable situation has not been stabilized.

GUIDANCE

Steep or overhanging cut banks may cause soil and other debris to slump onto the road. This may block an inside ditch and cause water to be diverted onto a road surface. Stable vegetative cover is difficult to establish or maintain on steep cut slopes. Where sloughing is a significant and continuing problem the usual remedies of debris removal or laying back the cut slopes and removing unstable trees may not solve the problem if subsurface water flow is contributing to the problem. These problems should be addressed during the construction phase, not after a slump has already occurred.

- j. Construct full-bench roads, without fill slope disposal on slopes greater than sixty percent (60%) in unstable or erodible soils. (3-31-22)

INTENT 040.03.j.

To require full bench construction on roads built or reconstructed on steep sideslopes that exceed sixty (60) percent. The excavated soil material will probably require end-hauling, but it should be left up to the operator how best to dispose of the fill in stable locations.

To minimize or prevent landslides triggered by road fill failures.

UNSATISFACTORY CONDITIONS

If a portion of the road is on fill material, the potential exists for the fill to fail and trigger landslides. An unsatisfactory condition exists where fill material is side-cast on slopes greater than 60 percent, either uphill or downhill.

GUIDANCE

Landslides triggered by fill slope failures can significantly impact water quality, site productivity and capital investments such as roads and culverts. Slope steepness can play a significant role in shallow landsliding. Steeper slopes tend to be less stable. The soil mantle, depending on characteristics, has a natural angle at which it is relatively stable (natural angle of repose). In a

general sense, this angle of repose is approximately 60 percent. When hill slopes evolve to be steeper than the natural angle of repose of the soil mantle, the hill slope is less stable and more prone to shallow landslides triggered by fill failures, especially under wet conditions. The combination of steep slopes and convergent topography has the highest potential for shallow landsliding.

Recommend an excavator in the construction of steep, side-hill roads. Slope staking may be necessary to ensure that a full bench road is constructed. Fill should be end-hauled to a stable location or wasted on the road surface in compacted lifts. Excess material can be placed as fill at stream crossings, provided it is designed, compacted, and adequately stabilized and the crossing does not become a convenient waste disposal site. Cut slopes must be stabilized and adequate cross drainage installed. Minor amounts of material inadvertently side-cast during construction should not be an undue cause for concern provided slash filter windrows are in place.

Variations can be granted for this rule in situations where the road is temporary in nature and side-cast material is pulled back and stabilized prior to fall rains. A variance may also be granted where any fill material is designed to be keyed into a bench and compacted in shallow lifts or otherwise supported by various engineered Mechanically Stabilized Earth (MSE) structures such as gabions, welded wire walls or geogrids.

Road construction costs associated with end-hauling can be significant, and therefore, operators should be encouraged to consider an engineered design for the road.

04. Road Maintenance. Landowners and operators must use the following practices for regular preventive maintenance operations to minimize disturbance and damage to forest productivity, water quality, and fish and wildlife habitat. (3-31-22)

INTENT 040.04

To protect forest productivity, water quality, and fish and wildlife habitat.

To achieve a stable road surface and keep drainage systems functional on all active, inactive, and abandoned roads.

This is the purpose statement for the rules for road maintenance.

The rule recognizes four classifications of forest roads: *active*, *inactive*, *long-term inactive*, and *abandoned*. Active roads are in current use or being maintained for removal of commercial forest products. Inactive roads are not currently used for commercial hauling of forest products, but may be left open for general forest management purposes. Long-term inactive roads are not intended to be used until some point in the future. Abandoned roads are not intended to be used again. Active and inactive roads must be maintained to meet the same standard requirements of stable surfaces and functional drainage systems, though the effort necessary to accomplish this may vary. Abandoned roads are impassable and no longer intended for forest management use. Prior to abandonment, the roads must be stabilized, adequately drained and culverts pulled so that no further maintenance is required.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when maintenance practices are not applied and damage results to forest productivity, water quality, or fish and wildlife habitat. Use this rule where specific subparagraphs of this rule do not apply. The most common unsatisfactory conditions

involve lack of surface drainage, hauling under saturated conditions and failure to keep ditches and culverts functional.

GUIDANCE

The **operator** is held responsible for compliance with these road construction and maintenance rules. The landowner may become responsible once the road is in an inactive status (if land ownership hasn't changed since the notification expired). No further maintenance is required once culverts and bridges are removed, banks stabilized, and the road declared abandoned. If future impacts to water quality occur, the Idaho Dept. of Environmental Quality should be contacted. There are no further FPA requirements.

Where ownerships are consolidated and the landowner is the principal user of the inactive road, this guidance is easily applied. Where ownerships are mixed, easements are involved, or the road is considered public access, the Private Forestry Specialist should place initial responsibility on the **operator**.

Recreational users, local residents or transients have no responsibility for maintenance under the Forest Practices Act. Landowners should restrict access if they do not want to bear the responsibility for the actions of such users. If restricting access is not an option (the case on public access roads), the operator, landowner or Private Forestry Specialist should contact other road users to discuss cooperative maintenance and road-use measures. Regardless of other road user impacts, the operator must maintain road drainage as long as the practice is active. A final inspection should be made to verify compliance and release the operator from further obligation.

The operator generally has no maintenance responsibility on publicly maintained roads, unless operator negligence results in damage to the public road.

Public access roads used in this context present unique difficulties. By deed or adverse possession, they are recognized as legal access; in place to provide landowner ingress/egress. While IDL cannot forbid the use of such roads, the Private Forestry Specialist may dictate the conditions under which they will be used. While they may be used occasionally to haul timber, they are not considered forest roads that exist primarily for forest management purposes. Most public access roads are poorly engineered and maintained, and are not subject to substantive local government regulation. Operators must provide and maintain adequate drainage on these roads during use and until the practice complies with the FPA upon completion. Release any future maintenance obligation on an inspection report.

Local users may complain that logging operations have destroyed a road that was in poor condition to begin with. Operators should leave roads of this type in as good or better condition than they found them. At a minimum, road cross-drainage should be installed and additional measures such as spot rocking or culvert replacement may be included, if logging operations rendered these structures ineffective.

Identifying specific road maintenance violations can be difficult if other road users or precipitation events obliterate forest practice activity. Evidence of nonfunctioning drainage structures may or may not indicate a lack of maintenance by the operator. If it can be proven that the road drainage system was nonfunctional prior to forest practices, an unsatisfactory condition existed irrespective of other events. If the road was properly maintained and the precipitation event or other road use appeared to create the situation, no violation is warranted

and the Private Forestry Specialist should attempt to get all involved parties to cooperatively repair the drainage systems.

An unsatisfactory condition may exist when damage has not yet occurred. Enforcement procedures and corrective measures may be used when maintenance fails to prevent imminent problems. An operation may be cited for poor maintenance work before a major erosion or road failure occurs.

- a. Place all debris or slide material associated with road maintenance in a manner to prevent their entry into streams. (4-5-00)

INTENT 040.04.a.

This rule is designed to prevent debris from slumps, slides, grading, and ditch pulling from being placed in a position where it could enter a stream.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when side-cast road debris is placed in a stream or has the potential to reach the stream due to high water or surface or mass erosion.

GUIDANCE

This rule generally addresses regular, ongoing maintenance practices and can be used when a more specific subparagraph does not apply. For roads in close proximity to streams, avoid side-casting or dumping of road maintenance debris (e.g., cut slope slump) in the SPZ. Blade operators should pull material away from, rather than toward, the stream during grading operations.

- b. Repair slumps, slides, and other erosion sources causing stream sedimentation to minimize sediment delivery. (4-5-00)

INTENT 040.04.b.

To ensure that slumps, landslides, and erosion features are stabilized and the damage repaired to the extent possible. In addition, it seeks to stabilize any potentially unstable or erodible road feature that may pose a risk of delivering sediment to a stream. While other rules address the need to plan, construct and maintain roads to prevent slides, this rule recognizes that a landslide or soil erosion may still occur and it must be stabilized.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when slumps, landslides and other erosion features have not been repaired and stabilized; or when potentially unstable or erodible areas identified by the department have not been mitigated to the degree needed to ensure stability.

GUIDANCE

Merely restoring expedient passage does not constitute landslide repair. Repair and stabilization of slumps and landslides is costly and time consuming; therefore, the best practice is to avoid locating roads on geologically unstable or highly erodible areas. Most slide problems are attributable to poor road construction practices (i.e., debris buried in the fill, improper fill compaction, improper road design and drainage or locating the road on unstable side slopes).

Repair may include that side-cast or fill be pulled back and end-hauled to a stable location, side slope armoring, revegetation, reestablishing natural drainage of blocked or diverted streams, subsurface drain installation, buttress or retaining wall construction or relocation of road segments. For some slides, the soil movement can stabilize a previously unstable situation and no further repair, other than seeding, is necessary. The IDL geotechnical specialist should be consulted to help determine the appropriate stabilization measures.

Determining responsibility for landslide repair is relatively easy if the operation is still active. When slide and slump problems are identified along inactive or abandoned roads, however, the landowner may be responsible. See Rule 040.04. guidance.

Completion deadlines for landslide repair will be an issue if repairs are numerous or costly. The Private Forestry Specialist, working with the landowner or operator, should develop a mutually agreeable repair schedule, avoiding further significant impact to beneficial uses.

- c. Active forest roads are used for hauling forest products, rock and other road building materials. Conduct the following maintenance on active roads. (3-31-22)
- i. Keep culverts and ditches functional. (3-31-22)
 - ii. Crown, out-slope, in-slope, or cross-drain road surfaces during and upon completion of seasonal operations. Remove berms from the outside edge except those intentionally constructed for protection of fills. (3-31-22)
 - iii. Maintain the road surface and postpone hauling during wet periods as necessary to minimize erosion of the subgrade and provide proper drainage. (3-31-22)
 - iv. Apply road-surface stabilizing materials in a way that prevents their entry into streams. (3-31-22)
 - v. During active maintenance, ensure road surfaces within SPZs are sufficiently stabilized. Install supplemental filtration at drainage structure outlets within SPZs if effective forest floor filtration is not available. (3-31-22)

INTENT 040.04.c.

To define an active road as one being used for hauling forest products or rock and other road-building materials. All primary haul roads used and maintained for forest management operations are classified as active.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when water quality, forest productivity or wildlife habitat is being damaged or threatened by any of the following conditions:

- A. Culverts and ditches are unable to carry runoff during a major precipitation event because they are plugged or partially plugged.
- B. Drainage structures, ditches, crowns, and berms are not kept in good working condition.
- C. The road surface is not maintained.
- D. Hauling occurs during wet periods and sediment has or will enter streams or the subgrade has been significantly eroded.
- E. Dust abatement materials (magnesium-chloride, calcium lignosulfonate) enter streams.

GUIDANCE

This rule can apply to roads within the individual practice area and off operational access roads used for hauling forest products. These roads represent a major capital investment and can be a major threat to streams; responsibility for their maintenance must be established early. The responsibility can vary from the logging contractor or landowner to the road owner or prime maintainer. The operator has no FPA authority over publicly maintained roads.

Drainage by out-sloping and the removal of berms not protecting a fill is generally preferred. In-sloping and inside ditches are appropriate for surfaced roads and in high-hazard areas where precise control of runoff drainage is necessary. Use of in-sloping requires cross-drainage structures or relief culverts to prevent excessive build-up of ditch line flow. Structure placement must direct the flow onto a stable area, *never* into a stream. To minimize direct inside ditch discharge into a stream, install relief drainage as close as practical above the stream crossing. In all cases the immediate dispersal of runoff is the goal.

Active roads must be monitored and maintained on a regular basis to ensure that culverts, in-sloping, ditches, out-sloping, berms, surface drainages, and other erosion control devices are fully operational. Rule 040.04.c.ii. requires maintenance of erosion and drainage structures during and upon completion of the operation. Seasonal removal or reinstallation of temporary structures may occur, provided sediment will not enter a stream. Corrective measures may include installation of additional permanent drainage.

When maintenance must occur on haul roads off the operating area, determining the extent of responsibility may be a challenge if multiple operations use the same main line road. In this case, operators and landowners should develop a cooperative maintenance plan with all active users. In any case, if an operator damages a drainage structure, they are responsible for repairing it.

Placing restrictions on hauling is a judgment call, where this may be a concern, an inspection report should state hauling limitations. If a road is damaged due to hauling during wet weather, require mitigation to bring the road back to an acceptable standard.

- d. Incidental haul roads are roads with a primary purpose other than forest practices that are used for hauling logs during active harvest. Active road maintenance requirements apply. Once active road maintenance is completed, no other maintenance is required under the Act. (3-31-22)

INTENT 040.04.d.

To differentiate between forest roads used exclusively for forest management and those which are occasionally used for forest activities, but are routinely and regularly used for other purposes.

GUIDANCE

To define the level of maintenance required for an incidental road. For enforcement of road maintenance standards refer to the road maintenance rule 040.04.

- e. Inactive forest roads are no longer used for commercial hauling, but maintained for access. Conduct the following maintenance on inactive roads. (3-31-22)

- i. When active use is over, clear ditches and culverts, crown, out-slope, in-slope, cross-drain or

otherwise treat the road surface to minimize erosion. Maintain drainage structures as needed. (3-31-22)

ii. The roads may be permanently or seasonally blocked to vehicle traffic. (3-31-22)

INTENT 040.04.e.

To ensure inactive roads have a stable surface and that drainage systems operate properly. Even though a road is not actively used for commercial hauling of forest products, it must still be maintained to minimize erosion. The rule also allows for a landowner to reduce road maintenance needs by temporarily or permanently eliminating vehicular access to an inactive road.

UNSATISFACTORY CONDITIONS

Failure to maintain inactive roads to prevent damage or potential damage to forest productivity, water quality, or aquatic habitat constitutes an unsatisfactory condition. Following termination of active road use, culverts and ditches must be cleaned and the road surface must be properly drained to be in compliance.

GUIDANCE

The listed operator is responsible for road maintenance while the notification is active. Landowners may be held responsible for road maintenance after the notification has expired. This guidance is easily applied to inactive roads where ownerships are consolidated and the landowner is the principle user of the road. Mixed ownerships can complicate matters. Rule 040.04 addresses guidance for assigning responsibility. Correcting an unsatisfactory condition should involve cleaning culverts, ditches, and other drainage structures.

Recreational users, local residents or transients have no responsibility for road maintenance under the Forest Practices Act. Unless operators want to bear the responsibility for such users, access should be permanently or temporarily restricted by the landowner.

As an alternative to continuous maintenance on an inactive road, this rule allows for the use of road blocks. The road must be left in stable condition with culverts, ditches, and drainage systems working properly. If the road blockage is poorly constructed (allows traffic to access the road and damage cross-ditches) cite improper maintenance under Rule 040.04.e.ii.

f. Long-term inactive roads are forest roads that will not be used soon, but may be used again; no subsequent maintenance is required following completion of the practices below: (3-31-22)

i. Out-slope, cross-drain, seed or treat the surface to control erosion. (3-31-22)

ii. Block the road to vehicle traffic. (3-31-22)

iii. The Department may require the removal of bridges, culverts, ditches and unstable fills. The landowner must maintain any bridges or culverts left in place. (3-31-22)

INTENT 040.04.f.

A long-term inactive road is not intended to be used again for several years. This rule specifies that roads classified as long-term inactive must meet erosion control requirements. If the owner chooses to leave in culverts and bridges, they must be maintained. Long-term inactive roads do not require future maintenance once adequate erosion control measures are installed.

UNSATISFACTORY CONDITIONS

A road considered in long-term inactive status is in an unsatisfactory condition when:

- a) Erosion control measures are not adequate for future needs.
- b) Road blocks are ineffective and allow vehicular entry.
- c) Bridges, culverts, or unstable fills have not been removed and banks not stabilized as required or where the landowner elected to leave the structures in place, bridges or culverts have not been maintained.

GUIDANCE

Because long-term inactive status may constitute the end of operator or landowner responsibility under the Forest Practices Act, Private Forestry Specialists should verify that all conditions for long-term inactive status have been met. The inspection report should note rule compliance. In addition, the report should outline landowner responsibilities for future maintenance of stream crossings and relief culverts. If an operator complies with the rule, any future impact on water quality should be referred to the Idaho Dept. of Environmental Quality, IDWR, or other appropriate agency.

- g. Permanently abandoned roads are forest roads not intended to be used again. Remove all drainage structures and treat road surfaces to minimize erosion. (3-31-22)
- i. Restore stream gradients to their natural slope. (3-31-22)
- ii. Treat the road surface to break up compacted areas. (3-31-22)
- iii. Pull back fill slopes of roads within SPZs to a stable configuration unless long-term stability is evident. (3-31-22)
- iv. Pull back unstable side-hill fills to a stable configuration. (3-31-22)
- v. Control ditch-line erosion by cross-draining, out-sloping, or regrading to eliminate ditches. (3-31-22)
- vi. Stabilize soil exposed from regrading, ripping, and drainage removal by seeding, mulching, armoring, or other treatment. (3-31-22)

INTENT 040.04.g.

To specify certain long-term stability and erosion control requirements. A permanently abandoned road has no expected future use. Installation of these practices will render the road unsuitable for motorized traffic. No further maintenance will be required on properly abandoned roads.

UNSATISFACTORY CONDITIONS

A permanently abandoned road is considered to be in an unsatisfactory condition when:

- a) Culverts or bridges have not been removed or stream gradients restored to a natural configuration.
- b) The road surface has not been ripped.

- c) Fills in SPZs, or unstable side-hill fills, have not been pulled back or otherwise left in a stable configuration.
- d) Ditchlines are not eliminated, where water will run down versus across the road.
- e) Bare earth areas have not been revegetated or armored.

GUIDANCE

Because abandonment constitutes the end of operator or landowner responsibility under the Forest Practices Act, Private Forestry Specialists should verify that all conditions for abandonment have been met. The inspection report should note rule compliance. If an operator complies with the rule, any future impact on water quality should be referred to the Idaho Dept. of Environmental Quality, or other appropriate agency.

While abandoned roads must be left in a stable configuration, this rule does not require full re-contouring to the original slope.

As a condition of this rule, variances are not required to operate equipment in SPZs to pull structures or abandon roads.

05. Winter Operations. To minimize erosion and prevent damage to roads and constructed skid trails from winter logging, operators must implement the practices below: (3-31-22)

a. Install adequate road drainage prior to winter operations using rolling dips, drivable cross-drains, open-top culverts, out slopes, or other methods. (3-31-22)

b. Maintain roads to keep the surface drained during thaws or break up. This may require active maintenance of existing drainage, drain holes in snow berms, and installation of additional cross-drains or treatment of the road surface. (3-31-22)

INTENT 040.05.b.

To emphasize that installation and maintenance of road and skid trail drainage during winter operating conditions is critical. The rule specifically requires construction of adequate road drainage to control runoff prior to active use of the road or constructed skid trail. Periodic drainage maintenance to prevent erosion during mid-winter thaws, rain on snow events, or spring breakup may be required.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when adequate erosion control measures have not been installed and maintained on roads and constructed skid trails prior to and during their active use.

GUIDANCE

The rule does not require measures beyond those generally contained in other rules and it is recognized winter logging has some operational and environmental benefits. It is specific to winter operations, because erosion and mass wasting problems can occur during thaw and breakup, particularly during a rain-on-snow event, causing significant impacts. The rule recommends several methods of erosion control and drainage maintenance which can include structures such as flappers, logs partially buried in the road, or trenches cut across the road. In cases where operations will be conducted under snowpack or frozen conditions on existing roads or snow roads, no drainage installation work will be required if the road had adequate

drainage prior to active use. If the drainage structures remain functional and not blocked by debris or snow berms, erosion can be controlled during run-off events.

041. -- 049. (RESERVED)

DRAFT

050. Residual Stocking and Reforestation Guidance

050. RESIDUAL STOCKING AND REFORESTATION.

01. Purpose. To provide requirements for residual stocking and reforestation that will maintain a continuous growing and harvesting of forest tree species, and for sites not requiring reforestation, to maintain soil productivity and minimize erosion. The rules specify the minimum number of acceptable trees per acre and the maximum period of time allowed after harvesting for establishment of forest tree species. (3-31-22)

INTENT 050.01

To provide the framework for the residual stocking and reforestation rules; in general, it will not be used for enforcement.

To describe when reforestation is required and provide for the continual growing and harvesting of forest tree species as well as vegetative cover to maintain soil productivity.

To describe minimum stocking standards; it is not intended to require a landowner, who may have other objectives, to practice silviculture that maximizes growth and yield.

02. Quality of Residual Stocking. On any operation, trees left for future harvest must be of acceptable species and adequately protected from harvest damage to enhance their survival and growth. Locate roads and landings and conduct felling, bucking, skidding, yarding, and decking operations to minimize damage to residual trees. Acceptable residual trees should have a minimum live crown ratio of thirty percent (30%), minimum basal scarring, and should not have dead or broken tops. When stands have a high percentage of unacceptable trees, consider stand replacement rather than intermediate cuttings. (3-31-22)

INTENT 050.02

To ensure a viable future stand of healthy trees best suited for the site, and to protect them from physical damage during logging. Protection is mandatory and various methods are suggested. Guidance, tempered by the Private Forestry Specialist's judgment, is also provided on what constitutes an acceptable leave tree. The rule also recognizes that stand conversion, rather than intermediate cuttings, may be the preferred alternative.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when leave trees left for future harvest are of poor vigor and health or their survival and growth are questionable.

GUIDANCE

Appropriate action to minimize tree damage includes changing the method of operation and salvaging heavily damaged trees. If the stocking of acceptable tree species is reduced below minimum stocking standards of subsection 050.04, reforestation will be required, unless an exemption applies.

03. Sites Impractical to Reforest. Sites impractical to reforest, generally ponderosa pine and drier Douglas-fir habitat types, must not be harvested below minimum stocking, unless the site is converted to some other use or, in instances of wildfire, insects, disease or other natural causes, where salvage of damaged timber is planned. (3-31-22)

a. When harvesting timber on these sites, one (1) of the following actions must be taken to ensure minimum stocking: (3-31-22)

i. Establish a new stand by leaving seed trees on the site and inter-planting at least once within five (5) years of harvest completion. (3-31-22)

ii. Establish a new stand of timber by planting the site with an acceptable tree species, and inter-planting at least once within five (5) years of the original planting. (3-31-22)

b. If the efforts listed above in a.i. and a.ii. do not provide the minimum stocking level, the landowner will be encouraged but not required to perform additional reforestation efforts. (3-31-22)

INTENT 050.03

To prevent harvest below minimum stocking levels on these low site-index sites and to ensure a viable stand for the future through natural regeneration.

This rule subsection recognizes successful reforestation has silvicultural limits due to climate, site factors, or availability of planting stock. Artificial reforestation is not practical (or even possible) on some marginally productive sites.

This rule also recognizes that harvesting on these sites is prudent in the case of wildfire or insect and disease outbreaks, and while reforestation efforts may be extremely difficult, some level of effort is needed to provide responsible land stewardship, which includes a good-faith effort to reforest the site.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition occurs when habitat types described in the rule, or possible cold/wet/high-altitude habitat types, are harvested below minimum stocking.

GUIDANCE

If a violation occurs, there may be no practical reforestation repair that is silviculturally feasible. Avoid this situation by identifying these habitat types prior to harvest and convincing the operator or landowner to not harvest below minimums.

If an operation is found in violation and the operator or landowner makes a reasonable attempt to change harvesting practices, an NOV will not be issued. If the operator or landowner refuses to change practices or continues them on a future operation, an NOV is warranted.

If, after a legitimate salvage operation, a good-faith effort is made to reforest/plant the stand, an unsatisfactory condition will not be issued, even if the stand does not support minimum stocking levels five years after the completion of the harvest. Good faith efforts can include obtaining site adapted tree seedlings, hiring professional tree planters, herbicide application(s), and tree seedling protection installation.

The landowner bears the responsibility for reforestation due to overharvesting (see 50.06.b). Required elements of reforestation may include herbicide application and seedling protection methods such as budcaps or Vexar tubing.

04. Stocking. (3-31-22)

a. Stocking is satisfactory immediately following harvest if the following number of acceptable trees per acre, within each specified region, for at least one (1) diameter range are reasonably well distributed over the area affected by harvesting. (NOTE: (1) DBH = Diameter (outside of the bark) of a tree four and one half (4.5) feet above mean ground level):

MINIMUM STOCKING - ACCEPTABLE TREES

Idaho Region	Diameter Range DBH (inches)	Average Number of Retained Trees Per Acre	Average Spacing (feet)
North	0" – 2.9"	170	16 x 16
South	0" – 2.9"	125	18 x 18
North	3.0" – 10.9"	110	19 x 19
South	3.0" – 10.9"	75	24 x 24
North	11.0" and greater	20	46 x 46
South	11.0" and greater	15	53 x 53

(3-31-22)

b. If the stand consists of retained trees of mixed diameter ranges reasonably well distributed over the harvested area and none of the diameter ranges individually equal or exceed the minimum trees per acre shown above, stocking is satisfactory if the weighted total of all of the diameter ranges of the retained trees exceeds a value of one hundred seventy (170) for a stand in the North Region and one hundred twenty-five (125) in the South Region. Calculate the weighted total by multiplying the number of retained trees per acre in each diameter range by the weight below and then sum the results.

Diameter Range	Weight
0" – 2.9"	1
3.0" – 10.9"	1.6
11.0" and greater	8.4

(3-31-22)

c. Harvested stands which are not adequately stocked, as defined above, are subject to supplemental reforestation requirements specified in Subsection 050.06. (3-31-22)

INTENT 050.04

To prescribe the minimum number of acceptable trees per acre that must be present following harvest. If requirements are met, no additional reforestation is required.

To prescribe different minimum stocking levels for sites north of Salmon River (North Region) and south of Salmon River (South Region). The South Region standards also apply to dry, ponderosa-pine-Douglas-fir forest types north of Salmon River, and the North Region standards apply to highly productive, mixed conifer stands south of the Salmon River. The operator should provide sound reasoning to justify the region he/she reports and the PFS should provide concurrence. The landowner should then be notified which minimum-stocking standard will be applied to the harvested unit.

UNSATISFACTORY CONDITIONS

When reforestation is not checked on the Notification/Compliance, an unsatisfactory condition may exist if stocking levels are below prescribed minimum numbers following harvest. The Private Forestry Specialist (PFS) is encouraged to communicate with the operator and landowner to ensure the landowner's intent. If after explaining the need for planting, the landowner refuses to carry out supplemental reforestation, then an unsatisfactory report can be issued *to the landowner* (refer to rule paragraph 050.06.b.).

GUIDANCE

If stocking is acceptable following harvest, reforestation is not required. If post-harvest, stocking does not meet the minimum levels expressed in this rule, the condition should be documented on the inspection report with notation to re-inspect for adequate stocking in three growing seasons. Document the party responsible for reforestation (generally the landowner) at this time, if not previously identified.

If post-harvest stocking does not meet the minimum levels expressed in this rule, and the operator has not checked the reforestation box on the Notification/Compliance, the PFS must use discretion in deciding if the operator genuinely realized the error. If the PFS determines that retained seed trees cannot possibly regenerate the site to meet the minimum stocking standards, and the landowner refuses to commit to planting the needed amount of seedlings, an unsatisfactory report can be issued immediately following harvest.

Stands are considered minimally stocked if one or more of the size class stocking requirements are met. The process of calculating stocking levels and determining rule compliance when several size classes are present is described in this rule subsection. Various methods of fixed-plot stocking surveys are acceptable. The PFS should select a method best adapted to the given situation. Determining what constitutes "reasonably well distributed" is left to the PFS's judgment.

A variance from the stocking table can be considered if harvest is planned on commercial forestland not adequately stocked due to natural events or historic logging. The PFS should develop a prescription that includes leaving a mix of residuals and inter-planting to accelerate achievement of "future growth and harvest" on lands that would otherwise not be harvested.

Variances can also be considered for stocking below stated minimums to achieve historic stand conditions that are not reflected in the stocking table. Documentation must be provided to demonstrate the desired historic condition actually existed and is achievable on the site.

- 05. Reforestation Exemptions.** (7-1-96)
- a.** Reforestation is not required for: (7-1-96)
- i. Noncommercial forest land; (7-1-96)
 - ii. Land converted to another use. This may include land converted to roads used in a forest practice; (7-1-96)
 - iii. A forest practice which will result in ten (10) acres or less below minimum stocking levels. (7-1-96)
- b.** On lands where reforestation is not being planned in accordance with Subsection 050.03, establish

some form of grass or planted cover within one (1) year in order to maintain soil productivity and minimize erosion. (3-31-22)

INTENT 050.05

To describe exceptions to the reforestation requirements. All harvested areas on exempt lands require establishment of seeded or natural grass or other planted cover to provide for soil stabilization within one year after logging ceases. *Avoiding noxious weed infestation is a priority.*

UNSATISFACTORY CONDITIONS

On exempt lands, an unsatisfactory condition exists if after one year, sufficient vegetative cover is not established to provide soil stability.

GUIDANCE

- i. Noncommercial forestland means lands that cannot produce more than 20 cubic feet (of wood) per acre per year or habitat types that are rated very low for timber productivity. In questionable cases, radial growth and height measurements should be applied to the appropriate volume table to determine growth rates.
- ii. The conversion of forestlands to other uses is discussed in Rule 020.02. Converting a commercial timber stand to the growing of noncommercial or ornamental species constitutes a conversion.
- iii. If more than ten (10) acres over the forest practice area are not adequately stocked following the harvest, reforestation requirements must be met. On larger ownerships with non-stocked holes, count holes in two-acre or larger increments only.

The soil stabilization requirements apply to all exempt lands. In most situations, grass seeding should be required to stabilize the soil and prevent the spread of weeds.

Except for lands described in 050.03, *Sites Impractical to Reforest*, the harvest of trees killed by fire, wind, insect, or disease is *not* exempt from reforestation requirements. If no harvest occurs, there is no forest practice and therefore no reforestation requirement.

06. Supplemental Reforestation. Seeding and/or planting may be required if after three (3) growing seasons from the date of harvest, stocking levels do not meet the standards in Subsection 050.04. Complete required seeding and/or planting before the end of the fifth growing season following the time of harvest; the Director must grant an extension of time if suitable seeds or seedlings are not available or if weather or other conditions interfere. (3-31-22)

a. Reforestation practices must ensure seedlings become established. This can be accomplished by adequate site preparation, using acceptable seed or seedlings, following accepted planting or sowing practices, or other suitable means. (3-31-22)

b. The party responsible for reforestation is the landowner during the harvest which reduced stand stocking below the minimum levels stated in Subsection 050.04. (4-4-13)

(Rule guidance is for Rule subsection and paragraphs 050.06., 050.06.a. and 050.06.b.)

INTENT

To ensure the site is sufficiently stocked by the end of the fifth growing season. If adequate stocking levels have not been reached by the end of the third growing season, supplemental reforestation is required. Exceptions to the rule for time extensions may be granted by the department.

UNSATISFACTORY CONDITIONS

If an inspection five years following harvest reveals that minimum stocking levels are not successfully free-to-grow in the harvested area, an unsatisfactory condition exists. If the supplemental reforestation (planting) is not completed in a timely manner following the five-year-post-harvest inspection, an NOV may be issued.

When minimum stocking levels have not been met by the end of the third growing season following harvest, the Private Forestry Specialist needs to communicate with the landowner to inform them that minimum stocking levels have not yet been established; and that planting must be completed to meet these minimum levels by the end of the fifth growing season following harvest (in two more years).

GUIDANCE

The landowner is responsible for supplemental reforestation.

The Inspection Report should document landowner responsibility for reforestation when the initial determination is made that minimum residual stocking levels are not met. Once an unsatisfactory condition has been identified, it should be clearly stated in the comments of the Inspection Report that the finding has been given to the landowner in accordance with this rule paragraph.

The landowner can choose to replant, reseed, or rely on natural regeneration to meet minimum stocking requirements by the third growing season. If stocking is unacceptable following the third growing season, it must be documented on the inspection report regarding this rule and rule subsection 050.04. The responsible party, now the landowner, must be informed of their reforestation obligation. The responsible party should sow seed or plant trees as required to complete reforestation by the end of the fifth growing season. An unsatisfactory finding (or NOV, if warranted) will be issued if these conditions are not met.

Seed transfer guidelines should be used when choosing seed species for reforestation. Proper planting and sowing practices ensure adequate survival and growth of acceptable species to meet or exceed minimum stocking requirements. Site preparation and vegetation or animal control may be required to establish seedlings. Provide reforestation guidance, including ordering, shipping and storage considerations, as needed.

Exceptions to the reforestation timetable may be granted by the PFS on an inspection report when planting stock or seed is not available or when natural climatic factors prevent meeting

the requirements. The landowner, however, must have made a reasonable and prudent attempt to comply with reforestation requirements.

Consider growing seasons to begin the spring following completion of harvest within an operating unit, regardless of continued harvest in adjacent units within the forest practice area.

While an unsatisfactory report may be issued to a landowner in accordance with the terms of this rule, the Private Forestry Specialist should consult with the Forestry Assistance Bureau Chief or Regulatory Program Manager prior to issuing an NOV to ensure alignment with statutory provisions stated in the Idaho Forest Practices Act.

Fire Salvage Reforestation

This section of the guidance clarifies some forest practices rule interpretations related to salvage activities to help ensure that IDL is presenting a unified, consistent message. The Forest Practices Advisory Committee (FPAC) and IDL have discussed the implementation of the rules related to fire salvage activities.

General Reforestation

If a landowner engages in salvage logging, they are required to meet stocking requirements under Rule 050.04., unless the stand meets the requirements of 050.03. IDL will assist landowners with reforestation cost-incentive procedures through the Natural Resources Conservation Service (NRCS); generally FPA rules allow enough time to provide reforestation. If there is a critical shortage of available and appropriate seedlings, the issue may be revisited. On a case-by-case basis, if a PFS determines that re-planting a stand within 3–5 years is unlikely to succeed because of soil degradation or lack of soil—or natural regeneration is likely going to take longer than 5 years to re-establish minimum stocking, a variance can be considered under the exception granted by 050.03.b. for wildfire. IDL will not, however, issue blanket variances from reforestation rules. If the PFS determines that replanting within five years is likely feasible and a landowner does not intend to replant, they must convert use or choose not to harvest all merchantable trees as part of a salvage operation.

Variances

The requirements for issuing variances remain the same. All approved variances must meet the criteria of providing “equivalent or better results over the long term.”

LOD Requirements

There is no longer a specific snag retention component within the streamside tree-retention rule. However, rule **030.07.e** states, “**Provide for large organic debris (LOD), shading, soil stabilization, wildlife cover and water filtering effects of vegetation along streams.**” and **30.07.e.i** **strongly encourages harvesting operations to leave all trees immediately adjacent to streams.** Unfortunately this rule does not provide specific numbers of snags or pieces of wood per foot of stream. IDL cannot independently provide quantifiable standards not specified in the rules. After discussing this issue with FPAC, IDL has determined that under the current rules we cannot require anyone to leave standing dead trees in a Stream Protection Zone (SPZ).

We do recommend that operators leave some standing trees in SPZs that have been thoroughly burned, in accordance with the recommendations of the IDL Interdisciplinary (ID) team or a local Burned Area

Emergency Recovery (BAER) team if this information is available. The ID team provides post-fire analyses and recommendations to IDL forest managers as salvage sales are planned on state endowment forestland. If either of these teams' reports are available, use recommendations from these reports to provide like recommendations for salvage logging, or remediation efforts, on adjacent private land. In areas where those numbers are not available, each PFS will have to exercise his/her own best judgment to match the rule standards to the specific burned sites.

Inspecting PFSs will need to assess ecological and biological impacts from the fire and recommend tree retention standards to best remediate these impacts (e.g., leaving extra trees next to severely burned flashy streams to provide needed extra channel stability).

Tree Retention Rule Requirements

The class I retention rule is clear that only live trees are counted for retention requirements. Dead trees do not contribute to retention under the current rules. We will not prevent landowners from harvesting dead trees from SPZs; all other rules still apply (e.g., no equipment in the SPZ). If an SPZ and stream channel was only lightly burned with a handful of trees killed or sure to die, the operator will be allowed to salvage those dead and dying trees because they are of little value for shade. No variance (Site-specific Riparian Management Plan) is needed to harvest below rule minimums because the trees are not counted in retention calculations. If harvest occurs, reforestation is required to establish a new stand or bring the current stand to a fully stocked state.

The rules do not specifically dictate to what extent reforestation within the SPZ is required, if salvage harvest or fire reduce the stand below specified rule minimums. IDL has discussed this issue with FPAC. The Class I tree-retention rule does state what the minimum acceptable stocking within an SPZ must be. With regard to the non-salvage application of the rules, if an Operator does not harvest within a rule-defined zone, they are not required to plant within that zone. If there are "survivors" within the SPZ they should be weighted to reduce the number of trees required to be planted. We do not require planting under live trees or in unplantable sites. It is not the intent to force people to plant trees in sites where there is little if any chance of survival. SPZs with very rocky or shallow soils may be very difficult to achieve successful regeneration. The species chosen must be appropriate for the site and serve the purposes of restoring the healthy riparian functioning of the SPZ. SPZ reforestation should be planted at the same rate as the rest of the stand.

A low-intensity burn scenario requires more in-depth analysis. Determinations should be made by the PFS on a case-by-case, site-specific basis. First, the PFS must confirm that the trees removed were indeed dead or dying if SPZ stocking levels are reduced below rule minimums. Second, the PFS must determine if replanting is required on each specific site. The PFS may have to require additional site prep to plant seedlings, as they would do in any other situation where the SPZ stocking levels were reduced below a minimum rule standard. We do not want landowners to remove brush that currently provides shade and channel stability only to create an opening for a tree that will take years to provide those benefits. Live trees and brush, which are providing shade and channel stability, should be accounted for in the replanting recommendations. All recommended or required reforestation activities, including site prep, should not require an operator or landowner to apply any chemical pesticides/herbicides in, or close to, an SPZ. All required activities should be in compliance with all forest practices rules, including the pesticide-application buffer standards and herbicide labels

051. -- 059. (RESERVED)

060. Use of Chemicals and Petroleum Products Guidance

060. USE OF CHEMICALS AND PETROLEUM PRODUCTS.

01. Purpose. Chemicals perform an important function in growing and harvesting forest tree species. These rules regulate chemical handling, storage and application for forest practices so that the public health and aquatic and terrestrial habitats will not be endangered by contamination of streams or other bodies of water. (3-31-22)

INTENT 060.01

To describe the broad purpose statement for more specific rules to cover chemical use and petroleum storage. Chemical use requires handling, storage, and application that does not endanger public health and aquatic and terrestrial habitat or contaminate streams or other bodies of water. Application of chemicals and pesticides is also regulated by the Idaho Pesticide Law.

GUIDANCE

Generally, this rule will not be used in enforcement. The misuse or overuse of chemicals can be an environmental and safety hazard and a politically sensitive issue. Private Forestry Specialists must be Idaho State Department of Agriculture (ISDA) licensed as pesticide control consultants to advise landowners on pesticide use. Private Forestry Specialists must recognize that label restrictions might exceed FPA minimum requirements and vice versa. For example, some chemicals such as Tordon are limited to use on certain soil types. The Natural Resources Conservation Service (NRCS) maintains a pesticide and soils database to rate pesticides on leaching or surface runoff potential among soil types.

Chemicals can contaminate ground water; however, the FPA rules for use of chemicals apply to surface waters only.

Application of chemicals to roadsides is part of routine maintenance. It is not a means of managing forest trees or forestland. The road right of way is not considered productive forestland. Ground application with power equipment (rule 060.07) restrictions apply along the roadside at approaches to stream crossings.

02. Other Applicable Laws. Anyone mixing, loading, applying or otherwise using chemicals must comply with the applicable portions of state and federal law, including but not limited to the Pesticide and Chemigation Law, Title 22, Chapter 34, Idaho Code and IDAPA 02.03.03, "Rules Governing Pesticide and Chemigation Use and Application." (3-31-22)

INTENT 060.02

To inform pesticide applicators of other rules that apply to pesticide use.

03. Petroleum Products. Stationary or mobile petroleum storage containers with capacities greater than two hundred (200) gallons must not be located closer than one hundred (100) feet from any waterway or area of open water. Dikes, berms or embankments must be constructed to contain at least one hundred ten percent (110%) of the volume of petroleum products stored within the tanks. Diked areas must be sufficiently impervious and of adequate capacity to contain spilled petroleum products. In the event any leakage or spillage enters any waterway or area of open water, the operator must immediately notify the Department. (3-31-22)

a. During fueling operations or petroleum product transfer to other containers, there must be a person attending the operation at all times. Fueling operations must not take place where the fuel will enter streams, lakes or

other areas of open water, if spillage occurs. (3-31-22)

b. Equipment and containers used to transport, store or transfer petroleum products must be maintained in a leakproof condition. If the Department finds evidence of petroleum product leakage or spillage, the equipment or containers may not be used until the deficiency has been corrected. (3-31-22)

c. Waste resulting from logging operations, such as crankcase oil, filters, grease, oil containers, or other nonbiodegradable waste must be removed from the operating area and disposed of properly. (3-31-22)

04. Equipment Maintenance. Equipment used to transport, store, or apply chemicals must be maintained in leakproof condition. If, the Department finds evidence of chemical leakage, the Department may suspend further use of that equipment until the deficiency has been corrected. (3-31-22)

INTENT 060.04

To define IDL's authority to suspend the use of any leaky equipment until it is repaired. Pesticides must be stored in accordance with the Idaho Pesticide Law.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when any piece of equipment used for transportation, storage, or application of chemicals leaks or shows evidence of leakage. It is also a violation when chemicals are not stored in accordance with the Idaho Pesticide Law and associated rules.

GUIDANCE

Specific guidance for spills is in Rule 060.12.

After a leak is identified, action must be taken to prevent further leakage and contain and neutralize the spilled chemical before it can contaminate the area. Where leaking equipment is involved, the operator can achieve compliance by repairing it or discontinuing its use.

The department has no regulatory authority to enforce the Idaho Pesticide Law but advises operators to ensure they know of the pesticide law's provisions. When Private Forestry Specialists feel an operator is in violation, the matter should be referred to the Idaho State Department of Agriculture for immediate enforcement.

05. Mixing and Cleaning. (3-31-22)

a. A person using water to mix chemicals must provide an air gap or reservoir between the water source and the mixing tank and use uncontaminated tanks, pumps, hoses and screens to handle and transfer mix water. (3-31-22)

b. Chemicals may be mixed and tanks and equipment cleaned only where spills will not enter any water source. (3-31-22)

i. Landing areas must be located where spilled chemicals will not enter any water source. (3-31-22)

ii. Rinsate and wash water should be recovered and used for make-up water, be applied to the target area, or disposed of according to state and federal laws. (3-31-22)

INTENT 060.05

To prevent contamination of streams, lakes or other water sources, when rinsate, wash water or fresh water, is taken from a stream and mixed with chemicals. It also prohibits mixing of chemicals, cleaning of tanks, or landing of aircraft where the potential exists for chemical contamination of nearby water sources or streams. Immediate and appropriate action is required to neutralize or contain any spilled chemical.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists anytime water is taken from streams, lakes, or other water sources in such a manner that chemical contamination is possible. An unsatisfactory condition also exists when chemicals are mixed, tanks cleaned, or aircraft landed at locations where spillage has occurred or can occur.

GUIDANCE

To prevent contamination, operators should refrain from mixing chemicals or cleaning containers close to streams and other water sources. If spilled, chemicals should be contained or neutralized. Generally, chemicals can be contained by encirclement with a dike or by collection in a low, waterless area. Some chemicals can be neutralized by activated charcoal. The Idaho State Dept. of Agriculture and the Idaho Dept. of Environmental Quality should be notified immediately if chemicals have been spilled. Reference Rule 060.12.

06. Aerial Application: (3-31-22)

a. With the exception of pesticides approved for aquatic use and applied according to labeled directions, when applying pesticide leave at least one (1) swath width (minimum one hundred (100) feet) untreated on each side of all Class I streams, flowing Class II streams and other areas of open water. When applying pelletized fertilizer, leave a minimum of fifty (50) feet untreated on each side of all Class I streams, flowing Class II streams, and other areas of open water. (3-31-22)

b. Use a bucket or spray device capable of immediate shutoff. (3-31-22)

c. Shut off chemical application during turns and over open water. (3-31-22)

INTENT 060.06

To protect water quality in Class I streams, flowing Class II streams and lakes by not directly applying chemicals aerially within a 100 foot wide buffer immediately adjacent to the high water mark of the stream or lake.

The rule is also intended to minimize accidental spraying on non-target areas and over open water. Aerial applications of pesticides must comply with the Idaho Pesticide Law.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when an application of chemical results in the chemical being directly applied to the water or the buffer area of Class I streams, flowing Class II streams, lakes, or areas of open water (i.e., swamps, impoundments, and springs).

Failure to provide an immediate shut-off device on the bucket or spray device, or failure to shut off chemical applications over open water, also constitutes an unsatisfactory condition.

A violation also occurs when aerial applications are not in compliance with the Idaho Pesticide Law.

Some chemicals are labeled for over-water application; a variance is not needed to use these chemicals over water. However, an unsatisfactory condition may result if significant stream-side vegetation is killed.

GUIDANCE

If the spray application is not in compliance with the Idaho Pesticide Law, the operation must cease and the Idaho State Department of Agriculture will be notified.

If the spray application results in chemical entering a Class I stream, flowing Class II stream, lake, or area of open water (i.e., swamp, impoundment, and spring), all operations must cease, and the Idaho Dept. of Environmental Quality and the Idaho State Department of Agriculture will be notified at once.

It is important to recognize that the buffer is not intended to be absolutely chemical-free, however the vegetative components of the SPZ are important for providing shade, sediment filtration, LOD and protection of other aquatic resources. The Private Forestry Specialist will need to use professional judgment in determining if a chemical application impacted the buffer significantly enough to affect overall water quality.

Application of fertilizer within lakeside zones should be addressed in a site-specific prescription, see rule 030.07.a. guidance.

07. Ground Application with Power Equipment. (10-14-75)

a. With exception of pesticides approved for aquatic use and applied according to labeled directions, when applying pesticide, leave at least twenty-five (25) feet untreated on each side of all Class I streams, flowing Class II streams and areas of open water. (7-1-98)

b. When applying fertilizer, leave at least ten (10) feet untreated on each side of all streams and areas of open water. (10-14-75)

INTENT 060.07

To require that ground spraying with power equipment must leave at least 25 feet of buffer when chemicals are applied, or 10 feet when fertilizer is applied, on each side of Class I streams, flowing Class II streams, lakes or open water areas.

UNSATISFACTORY CONDITIONS

See Unsatisfactory Conditions under Rule 060.06 above.

GUIDANCE

See Guidance under Rule 060.06 above.

08. Hand Application. (10-14-75)

a. Apply only to specific targets, such as a stump, burrow, bait, or trap. (10-14-75)

- b. Keep chemicals out of all water sources or streams.

(10-14-75)

INTENT 060.08

To prevent indiscriminate hand spraying of chemicals.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when unspecified targets or any water source are hand-sprayed with chemicals.

GUIDANCE

Competing vegetation is considered a specific target. Operators should calibrate and spray only the appropriate amounts of chemical. Spot treatment for planting sites in SPZs is recommended as opposed to broadcast site preparation treatments. Some chemicals are labeled for over-water application; a variance is not needed to use these chemicals over water. Application of fertilizer within lakeside zones should be addressed in a site-specific prescription (see Rule 030.07.a guidance).

09. Limitations on Applications. (3-31-22)

a. Chemicals must be applied in accordance with all limitations and instructions printed on the product registration labels, supplemental labels, and others established by regulation of the Director. (3-31-22)

b. Do not exceed allowable rates. (3-31-22)

c. Prevent direct entry of chemicals into any water source or stream. (3-31-22)

INTENT 060.09

To regulate the way chemicals are applied. The specified limitations and instructions on different registration labels will vary. Only those chemicals registered for specific tasks should be applied and then only in accordance with the directions and specifications on the label. Allowable rates must not be exceeded. In addition, the rule prohibits direct entry of chemicals into any stream, lake or water source.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when chemicals are not applied according to label instruction and/or registration, rates exceed allowable amounts, or chemicals are allowed to enter a stream or water source.

GUIDANCE

For any violation of this rule, the operation should cease and be promptly brought into compliance. Short of observing the application, it is difficult to document noncompliance. Review of daily records and applicator interviews should be conducted to determine compliance in questionable cases. If chemicals enter streams or water sources, the DEQ and ISDA should be notified immediately and a NOV should be issued. Some chemicals are labeled for over-water application; a violation will not be issued for use of these chemicals over water.

10. Daily Records of Chemical Applications. (10-14-75)

a. When pesticides are applied on forest land, the operator must maintain a daily record of spray operations which includes: (3-31-22)

i. Date and time of day of application. (3-31-22)

ii. Name and address of owner of property treated. (3-31-22)

iii. Purpose of the application. (3-31-22)

iv. Contractor's name and applicator's or pilot's name. (3-31-22)

v. Location of project (section, township, range and county). (3-31-22)

vi. Air temperature (hourly). (3-31-22)

vii. Wind velocity and direction (hourly). (3-31-22)

viii. Pesticides used including trade or brand name, EPA product registration number, mixture, application rate, carrier used and total amounts applied. (3-31-22)

b. Whenever fertilizers or soil amendments are applied, the operator must maintain a daily record of such application which includes Subsection 060.10 and the name of the fertilizer or soil amendment and application rate. (3-31-22)

c. The records required in Subsection 060.10 must be maintained in compliance with the record-keeping requirements of IDAPA 02.03.03, "Rules Governing Pesticide and Chemigation Use and Application." (3-31-22)

d. All records required in Subsection 060.10 shall be retained for three (3) years. (7-1-98)

INTENT 060.10

To require detailed record-keeping of pesticide and fertilizer applications during forest operations. The records must be kept for three years for department use in investigating questionable incidents.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when detailed records of chemical applications are not made daily and kept for easy access by the department.

GUIDANCE

The inspection of relevant records can be used to help determine compliance with other Rule 060 requirements.

11. Container Disposal. Chemical containers must be: cleaned and removed from the forest and disposed of in a manner approved by the Director in accordance with applicable local, state and federal regulations; or removed for reuse in a manner consistent with label directions and applicable regulations of a state or local health department. Open burning of containers is prohibited. (3-31-22)

INTENT 060.11

To require disposal of chemical waste in compliance with applicable waste disposal regulations.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when applicable regulations are not followed for chemical waste container disposal.

GUIDANCE

Any violations of this rule should be referred immediately to the Idaho Department of Environmental Quality. If the containers are classified as hazardous waste, then the Idaho Transportation Department (ITD) should also be notified immediately.

In general, a container is no longer hazardous if it has been triple-rinsed and punched with three holes and/or crushed. Under these conditions, containers will be accepted by an ordinary landfill. Make certain the rinsing solution has been disposed of by application over the target area.

- 12. Spills.** In the event of a spill: (3-31-22)
- a.** All chemical accidents and spills must be reported immediately to the Director. (3-31-22)
 - b.** Appropriate procedures must be taken immediately to control the spill source and contain the released material. (3-31-22)
 - c.** The applicator must collect, remove, and dispose of spilled material in accordance with applicable local, state and federal law and in a manner approved by the Director. (3-31-22)

INTENT 060.12

To require that chemical accidents or spills be reported to the department immediately. Once notified, the department alerts other concerned agencies to formulate a response. When chemicals are spilled, the operator must contain or neutralize the spill as soon as possible. The operator must collect, remove, and dispose of the spilled material in an approved manner.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition for this rule exists when a chemical accident or spill is not reported immediately to the department, when control and containment has not occurred, or when the operator has not collected, removed, and disposed of the spilled material in an approved manner.

GUIDANCE

When a spill occurs, the operation should cease, cleanup should begin, and the Private Forestry Specialist should contact the Idaho Dept. of Environmental Quality (DEQ) immediately to report the spill. There is no violation for spilling, but a violation exists for not reporting. DEQ is

responsible for managing spill incidents. All spills that meet or exceed the "reportable quantity" must be reported to the following groups:

1. The Idaho State Communications Center at 1-800-632-8000, which will notify DEQ, the Idaho Dept. of Agriculture, and other involved agencies
2. The local response agency at 911

Reportable quantities vary by chemical and formulation. DEQ maintains "Material Safety Data Sheets" to identify reportable quantities. The Idaho State Communication Center can verify reportable quantities.

Interpretation of "reported immediately" should make allowance for travel time to a communication source. On-site personnel may choose to take emergency containment actions or lifesaving measures prior to traveling to a location to relay the spill information.

13. Misapplications. Whenever chemicals are applied to the wrong site or pesticides are applied in a manner inconsistent with the product label, the applicator must report those misapplications immediately to the Director. (3-31-22)

INTENT 060.13

To require the person applying chemicals to determine if chemicals have been misapplied and to report any misapplications to the department. This rule is also intended to relieve the department from making such determinations on a routine basis.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when an operator or applicator fails to report misapplications to the department.

GUIDANCE

If this rule has been violated, other rules may also be violated and should be cited. There is no violation for misapplication, but a violation exists for not reporting.

061. -- 069. (RESERVED)

070. Slash Management Guidance

070. SLASHING MANAGEMENT.

01. Purpose. To provide for slashing and fire hazard management resulting from harvesting, forest management, forest tree species improvement, or defoliation caused by chemical applications necessary to protect reproduction and residual stands, reduce risk from fire, insects and disease or optimize the conditions for future forest tree species regeneration and to maintain air and water quality, fish and wildlife-habitat. (3-31-22)

INTENT 070.01

To provide a framework for the slashing management rules. This rule may be used for enforcement purposes. The rules cover management and disposal of logging slash and woody debris to reduce fire, insect and disease risks and to optimize regeneration conditions. Slash management practices must optimize conditions for reforestation and/or protect residual stocking. During slash management activities, air and water quality and fish and wildlife habitat must be maintained.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when slash management practices violate any aspect of the *Idaho Forestry Act*, the *Fire Hazard Reduction Programs*, or FPA Rules 070.02. or .03. An unsatisfactory condition exists if residual stocking, water quality, and/or fish and wildlife habitat is impacted, or other rules are violated, during slash management practices.

GUIDANCE

Fire hazard reduction practices must comply with all rules concerning construction and stabilization of fire trails, maintenance of forest roads used for fire management, protection of residual stands, site preparation, and stream protection requirements. If hazard management activities violate any other FPA rules, the inspection report should cite this rule and the other applicable rules (i.e., dozer piling, or a prescribed burn within an SPZ that does not maintain adequate filtering effects of vegetation constitute unsatisfactory conditions for rules 070.01 and 030.07.)

If fire hazard resulting from slash and debris is not managed in accordance with the *Idaho Forestry Act*, the *Fire Hazard Reduction Programs*, or FPA Rule 070.02. or 03., enforcement should take place as described in Rule 070.02. or 03.

02. Commercial Slash. Fuels and debris resulting from a forest practice involving removal of a commercial product must be managed as set forth in the *Idaho Forestry Act*, Title 38, Chapters 1 and 4, Idaho Code and the rules and regulations pertaining to forest fire protection. (3-31-22)

INTENT 070.02

To require commercial harvest activity involving fuel and debris management to comply with the *Idaho Forestry Act* and the *Fire Hazard Reduction Programs*.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when fuel and debris are not managed in accordance with the *Idaho Forestry Act* and *Fire Hazard Reduction Programs*.

GUIDANCE

For enforcement purposes, a distinction needs to be made between commercial fire hazard reduction requirements and requirements limiting impacts on residual stocking, water quality, and fish and wildlife habitat. Compliance with fire hazard requirements of the *Idaho Forestry Act* and the *Fire Hazard Reduction Programs* must be referred to the Fire Warden for enforcement.

03. Non-Commercial Slash. Fuels and debris resulting from a forest practice where no commercial product is removed must be managed in a manner as hereinafter designated under authority of the Idaho Forest Practices Act, Title 38, Chapter 13, Idaho Code. (3-31-22)

INTENT 070.03

Noncommercial activities that involve fuel and debris management must comply with the Forest Practices Act. To prescribe specific conditions and requirements to reduce fire hazards to acceptable levels.

GUIDANCE

For enforcement purposes, a distinction must be made between noncommercial fire hazard reduction requirements and requirements limiting impacts on residual stocking, air and water quality, and fish and wildlife habitat. For hazard reduction purposes, this rule states that compliance is required for practices in subparagraphs. Rule 070.03.d. is the only subparagraph in this rule used in enforcement for noncommercial hazard reduction activities.

Fuel and debris management of slash may include personal use harvest, pre-commercial thinning operations or cull tree removals. Slash treatment on forest roads, utility corridors, trails, railroads, etc., where commercial products are not removed, is managed in accordance with the *Idaho Forestry Act*, Idaho Code 38-125.

Any evaluation, required offset, or release of obligation under Rule 070.03. should be completed jointly by the Fire Warden and PFS. Rule 070.03.a. requires the department to evaluate within 10 days, using a point system, potential fire hazard and hazard reductions so as not to exceed 80 hazard points. The noncommercial *Hazard Points Worksheet* integrates the three hazard tables in Rule 070.03.e. into one form that determines the hazard characteristics and, if necessary, how to reduce points to less than 80.

If hazard characteristics sum up to 80 points or less, the inspection report reflects that no additional hazard reductions or offsets are needed.

If hazard offsets are needed to lower the total points to 80 or less, Rule 070.03.b. requires the department to notify the involved parties of required hazard offsets.

Once hazard reduction obligations have been met, Rule 070.03.c. requires the department, within 7 days, to release the operator from any further obligations.

a. Within ten (10) days or a time mutually agreed upon following receipt by the Department of the “Notification of Forest Practice” as provided in Subsection 020.05, the Department will make a determination of the potential fire hazard and hazard reduction and/or hazard offsets, if any, needed to reduce, abate or offset the fire hazard. This determination will be based on a point system found in Paragraph 070.03.e. (3-31-22)

INTENT 070.03.a.

After being informed of a forest practice, the department should determine the fire hazard potential within 10 days of notification and inform the operator of ways to reduce, offset, or abate that hazard.

GUIDANCE

This rule cannot be violated, since it contains no specific requirements for the operator. The department, however, is charged with determining ways to reduce, abate, or offset fire hazard. These offset or abatement procedures are determined by the Fire Warden.

b. The operator, timber owner and landowner will be notified in writing of the determination and of the hazard reductions and/or hazard offsets, if any, that must be accomplished by the operator, timber owner or landowner. The notification will specify a reasonable time period not to exceed twelve (12) months from the date the forest practice commenced the hazard reduction completion and will specify the number of succeeding years that on site improvements or extra protection must be provided. (3-31-22)

INTENT 070.03.b.

The department will notify the operator, timber owner and landowner of specific fire hazard treatments and other improvements and protection work which can be accomplished within one year.

GUIDANCE

This rule contains no requirements for the operator, timber owner, or landowner and therefore cannot be violated. The department must provide information on hazard reduction that can be accomplished within a year.

c. A release of all obligations under Subsection 070.03 will be granted in writing when the hazard reduction and/or hazard offsets have been accomplished. When hazard offsets are to be accomplished during succeeding years, the release will be conditioned upon the completion of the required hazard offsets. Notification of release will be mailed to the operator, timber owner and landowner within seven (7) days of inspection by the Department. Inspections by the Department will be made within ten (10) days of notification by the operator, timber owner or landowner unless otherwise mutually agreed upon. (3-31-22)

INTENT 070.03.c.

After the operator has notified the department that prescribed hazard reduction treatments have been accomplished, an inspection is conducted within 10 days. Within 7 days of the inspection, the department must send a written release to the operator, landowner, and timber owner.

GUIDANCE

This rule contains no operator requirements, so violations cannot be issued.

d. If the Department determines upon inspection that the hazard reduction or hazard offsets have not been accomplished within the specified time limit, the Department may grant extensions of time, each not to exceed three months, if the Director determines that a diligent effort has been made and that conditions beyond the control of the party performing the hazard reduction or hazard offsets prevented completion. If an extension is not granted the Department will proceed as required in Section 38-1307, Idaho Code (Idaho Forest Practices Act). (3-31-22)

INTENT 070.03.d.

Under this rule, the department may allow the operator an extension of up to three months for hazard reduction activities. If an extension is not granted, standard enforcement procedures apply.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists when the operator fails to complete all hazard reduction and hazard offset activities satisfactorily within the designated time.

GUIDANCE:

This is the only paragraph under Rule 070.03. with enforcement authority.

e. For the purpose of determining the potential fire hazard and the appropriate hazard reduction and/or hazard offsets, the Department will use a point system with the following rating guides. A value of eighty (80) points or less for any individual forest practice under Subsection 070.03, as determined by the Department, will be sufficient to release the operator, timber owner and landowner of all further obligations under Subsection 070.03. Total points of the proposed forest practice will be determined from Tables I and II. If the total points are greater than eighty (80), modification of the thinning practice to reduce points may be made as determined by Tables I and II, slash hazard offsets may be scheduled to reduce points as determined by Table III or a combination of these options may be used to reduce the hazards to a point total of eighty (80) or less. Consideration will be given to the operator’s, timber owner’s and landowner’s preference in selecting the options to reduce the points to eighty (80) or less.

TABLE I - HAZARD POINTS
Hazard Points for Ponderosa Pine, Western Red Cedar or Western Hemlock

Thinned Stems Per Acre											
Ave. DBH	250	500	750	1000	1250	1500	1750	2000	2500	3000	4000
1	1	2	3	3	4	5	6	7	9	10	16
2	3	6	9	13	16	22	25	30	36	42	51
3	7	16	25	32	38	46	51	52	56	59	
4	9	22	32	40	50	52	54	56	60		
5	13	28	40	51	54	56	59	60			
6	19	36	51	54	58	60	60				

Hazard Points for Douglas Fir, Grand Fir or Engelmann Spruce

Thinned Stems Per Acre											
Ave. DBH	250	500	750	1000	1250	1500	1750	2000	2500	3000	4000
1	1	2	3	4	6	7	8	9	13	16	22
2	4	7	13	16	22	28	32	36	42	50	54
3	8	19	28	36	44	51	53	54	58	60	
4	10	25	36	46	51	54	57	59	60		
5	16	32	46	52	56	59	60	60			
6	22	40	52	56	60	60	60				

Hazard Points for Western Larch, Lodgepole Pine or Western White Pine

Thinned Stems Per Acre											
Ave. DBH	250	500	750	1000	1250	1500	1750	2000	2500	3000	4000
1	1	2	2	3	4	4	5	6	8	9	13
2	3	6	8	11	16	19	22	28	32	38	48
3	6	16	25	32	38	46	51	52	56	59	
4	8	16	28	36	44	50	52	54	58		
5	9	22	32	42	50	53	55	57			
6	13	28	40	50	53	56	59				

TABLE II - HAZARD POINTS WORKSHEET

HAZARD CHARACTERISTICS

HAZARD POINTS

Fuel Quantity

Hazard points from Slash Hazard Table 1 1/
 Record number of trees/acre to be cut
 Average DBH
 Predominant species

Size of thinning block

Points 0 – 15 16 – 30 31 – 45 46 – 60 1/
 Acres 20 20 - 40 40 – 80 80

Site Factor

Record Slope _____ % Aspect _____
 Determine points from table below 1/

ASPECT	PERCENT SLOPE			
	0 - 19	20 - 39	40 - 59	60+
E or NE	0	5	10	20
E or NW	0	5	10	30
W or SE	0	10	30	40
S or SW	0	20	40	60
1/	Max. 60 points			

Other Factors	
Condition of operating area before forest practice commences	0 - 20 points
Condition of adjoining area	0 - 20 points
Presence of snags and culls	0 - 5 points
Deterioration rate of slash	0 - 5 points
Time of year forest practice operation	10 points
October thru December	2 points
August thru September	4 points
January thru April	7 points
May thru July	10 points
TOTAL FOREST PRACTICE AREA POINTS	(Max. 240 points)

TABLE III - HAZARD OFFSETS

Offsets	Hazard Point Deductions
Physical Changes to the Hazard (1)	
(1) Points will be proportional to the amount of hazard disposed of or modified.	
Disposal by burning or removal.	0 - 160
Modification by reducing depth through crushing, chipping or lopping.	0 - 60

On Site Improvements	
Condition of main access road to forest practice area should allow movement of heavy trucks without difficulty.	0 - 5
Access control to forest practice area provided by closure to public traffic.	0 - 5
Availability of water for tankers within one mile of forest practice area or within three miles for helicopter bucket use. Water supply to be sufficient to supply at least fifty thousand (50,000) gallons.	0 - 15
Buffer zones of unthinned areas at least two chains in width between roadways and thinned areas.	0 - 10
Fuel breaks with slash hazard removal around and/or through forest practice area, located so as to provide optimum fire control effect and of two to four chains in width.	0 - 25
Fire trails with fuel removed to expose mineral soil to a width of twelve (12) feet. Maximum points allowed if combined with a fuel break.	0 - 15
Extra Protection	
Increased attack capability such as retardant availability, increased attack manpower and equipment. Must be in addition to regular forces normally available during the fire season.	0 - 40
Fire detection and prevention increased beyond that normally available for lands in the fire protection district.	0 - 15
Initial attack time based on proximity of forest practice area to initial attack forces.	0 - 5
Landowner protection plan which would provide extra fire protection on a voluntary basis such as extra equipment and/or manpower.	0 - 5

(1-24-78)

INTENT 070.03.e.

To describe the point system for determining on-site fire hazards and options to reduce those hazards. Hazard points, a hazard points worksheet, and hazard offset worksheet are presented in Tables I, II, and III.

GUIDANCE

This point system determines compliance and enforcement with Rule 070.03.d.

If a conflict arises over total allowable hazard points for commercial versus noncommercial management, the Private Forestry Specialist and Fire Warden should establish the number of points (within the "80 points or less" parameters) needed to meet hazard reduction requirements over the entire practice area. The *Fire Hazard Reduction Programs* or *Forest Practices Act*, whichever provides the greatest protection (the fewest points), should apply.

071. Prescribed Fire Guidance

071. PRESCRIBED FIRE.

01. Purpose. Prescribed fire is a land management tool. Smoke from prescribed fires can have adverse impacts on ambient air quality or public health. These rules establish a management system for smoke from prescribed fires that will protect air quality. (3-31-22)

02. Notification. The use of prescribed fire requires a valid notification in accordance with Subsection 020.05 to maintain air quality and to protect public health. Possession of a valid notification will not preclude meeting the fire safety requirements specified in Section 38-115, Idaho Code. (7-1-96)

INTENT 071.02

To provide for notification and authorization, by acceptance of the notification, the use of prescribed fire as a forest practice. Notification must be provided to the department whenever using prescribed fire, even though implementation of any recommended practices are voluntary.

UNSATISFACTORY CONDITIONS

An unsatisfactory condition exists if the use of prescribed fire occurs without a valid notification. This is the only prescribed fire rule that can be violated.

GUIDANCE

This rule applies to the use of fire on forest land. Use of fire on non-forest land is not a forest practice. The use of prescribed fire is included with the slash management practice on the notification form. The operator is expected to inform themselves by calling IDEQ or if on a reservation the responsible tribe to see if it is a burn day.

Complying with this rule should generally not be an issue as most prescribed fire use stems from slash burning associated with commercial harvest. An exception may be where a landowner desires to under burn, habitat burn, or otherwise use fire to clean up forest land. Where burning is occurring without a valid notification, the Private Forestry Specialist or Fire Warden should explain the rules, their intent, and provide technical advice to help the burner meet their prescribed fire goals. If the burning is essentially complete, remind the operator to provide notice, if not associated with harvest, before burning the next time. If ignition and burning is to continue into the next day, the operator should be asked to provide notice.

If the burner, operator or landowner refuses to notify the department and public health is or will be compromised, the Private Forestry Specialist or Fire Warden can use the enforcement tools contained in the FPA to mitigate the threat to air quality. This can include suppression of the fire. If time is critical, the department can enjoin the operator in accordance with Section 38-1307(4) without having to go through the standard NOV procedures. This situation will occur rarely and enforcement action should only be taken upon consultation with the Area Supervisor, the Regulatory Program Manager and the Fire Bureau.

IDL manages burn permits for burning forest practice waste. Burn permits are available at <https://burnpermits.idaho.gov/Home.aspx>

03. Recommended Practices. To maintain air quality and protect public health the following practices

are recommended: (7-1-96)

- a. Slash and large woody debris piles should be compact and free of stumps, soil, snow, and nonwoody organic material. (7-1-96)
- b. Piles should be fully cured, dried at least two (2) months, prior to ignition. Piles should be at least partially covered with a water resistant material so they can be ignited after enough precipitation to lower the fire danger. (7-1-96)
- c. Broadcast burns should be conducted within a prescription that minimizes adverse effects on air quality. (7-1-96)
- d. Membership in good standing in a recognized Airshed Group is encouraged. (7-1-96)

INTENT 071.03

To provide recommendations, not requirements, for conducting prescribed burns that will not adversely impact air quality.

GUIDANCE

As these practices are recommendations, they are not subject to enforcement. To foster voluntary compliance, the department must be proactive in informing and advising landowners and operators of specific techniques that can be used to burn cleanly and safely. Working with landowners to help develop a prescription and identify a burn window can go a long way to meeting the goal of this rule.

The Montana/Idaho Airshed Group

<https://mi.airshedgroup.org/>

and Idaho DEQ

<http://airquality.deq.idaho.gov/>

<http://www.deq.idaho.gov/air-quality/monitoring/daily-reports-and-forecasts/>

each provide very useful information on air quality and burning.

Broadcast burning for an accepted Certificate of Compliance – Fire Hazard Management Agreement/Notification of Forest Practice also requires a burn plan be submitted to the Warden for the Fire Protection District in which the burning will occur, in accordance with IDAPA 20.04.02 Fire Hazard Reduction. Any burning without a burn plan, outside city limits during closed burning season, generally from May 10 through October 20, requires a burn permit.

<https://burnpermits.idaho.gov/Home.aspx>.

072. -- 999. (RESERVED)