

Aerial Herbicide Application under Forest Practices

Prepared for:

The Work Group on Aerial Application of Herbicides on Forestlands

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Objectives

- Provide an introduction to DNR forest practices authorities and responsibilities
- Describe how DNR reviews and complies forest practice applications
- Describe actions taken following a 2016 work group's recommendations to the Forest Practices Board

Statute and Rules



Photo credit: WA Department of Natural Resources



The Forest Practices Act

- Establishes that, "... coincident with maintenance of a viable forest products industry, it is important to afford protection of forest soils, fisheries, wildlife, water quantity and quality, recreation, and scenic beauty."¹
- Requires the Forest Practices Board (FPB) to, "...
 adopt forest practices rules ... that ... establish
 minimum standards for forest practices."²
- The FPB has adopted rules for the application of chemicals in the forested environment (Title 222 Chapter 38 WAC)

³ RCW 76.09.020 and WAC 222-16-010



¹ RCW 76.09.010

² RCW 76.09.040

Forest Practices Rules

WAC 222-38-010

- The forest practices rules implement best management practices designed to:
 - Eliminate the direct entry of pesticides and fertilizer to water
 - Minimize pesticide/fertilizer entry into:
 - riparian management zones associated with fish-bearing waters;
 - wetland management zones; and
 - buffers of perennial non-fish-bearing waters



Forest Practices Rules

WAC 222-38-020(3) and (4)

- No aerial herbicide application is allowed in RMZ areas closest to streams, wetland management zones, or in other specific areas
- The minimum separation required separation varies
 - Using fish-bearing streams to illustrate:
 - In western WA, can be as little as 60 feet or as much as 150 feet
 - In eastern WA, between 75-100 feet



Forest Practices Rules (con't)

WAC 222-38-020 (4)

- A 200-foot buffer is required around homes
- A 100-foot buffer is required next to agricultural land
- Notification is required:
 - Posting at access points is required 5 days before and for 15 days after application

Buffered Features	Minimum Buffer, Favorable Winds (<7mph)	Maximum Buffer Calm/Unfavorable Winds
Fish Bearing Waters	60-150 feet. (width of inner zone)	325 feet
Flowing non fish bearing waters	50 feet	100 feet
A Wetland	50 feet	325 feet
B Wetland	25 feet	325 feet
Residences	200 feet	
Agricultural lands	100 feet	

Forest Practices Rules (con't)

WAC 222-38-020(7)

Herbicides must be applied in accordance with:

- Limitations printed on the federal EPA container registration label
- Rules adopted by Washington Department of Agriculture (e.g., licensing and reporting)
- Limitations established by the federal OSHA, or the state Department of Labor and Industries as they relate to the safety and health of the operators and the public
- Limitations established by state and local health departments for municipal watersheds



Forest Practices Application Evaluation



Photo Credit: Washington Forest Protection Association



Forest practice applications

Forest practices applications are required for aerial herbicide applications on forestland

Review under SEPA is required when there is a potential for substantial impact to the environment ("Class IV-special")

- Determined based on WAC 222-16-070
- Very rare in practice

Otherwise, such FPAs are classified as "Class III" and SEPA review is not conducted



FPA evaluation and decision

- FPAs are reviewed by DNR forest practices regulatory staff
 An average ~195 new aerial herbicide FPAs per year
- Decisions to approve or disapprove are made no sooner than 14 days but generally must be made within 30 days

Field Compliance

After approval, DNR does field compliance on aerial herbicide FPAs, focusing on:

- Avoiding harmful drift
- Ensuring chemicals aren't applied in non-fish streams that have water; and
- Ensuring proper posting of application timeframes.
- DNR averages ~82 compliance visits per year for aerial herbicide applications

Investigation and Enforcement

- DNR partners with Washington Department of Agriculture on investigation of reports of noncompliance on drift or other concerns
- DNR enforcement actions involve all available tools according to our enforcement policies:
 - Notices to comply; stop work orders; civil penalties
- Formal DNR enforcement has been rare: only 2 actions over the past seven years

2016 Aerial Spray Work Group



2016 Aerial Spray Work Group

- In 2016, the Forest Practices Board asked a work group to address concerns that had been contained in rule petitions
- The work group reported back with recommendations in five areas:
 - Availability of better information about herbicides in forestry
 - Advance notification of pending applications
 - Clarity about aerial application proposals (FPAs)
 - Field compliance of FPAs
 - Reporting after applications completed



Status of work group recommendations

- 1. Availability of better information
 - DNR created a web page
 - https://www.dnr.wa.gov/applying-andmanaging-pesticides
 - DNR updated "Forest Practices Illustrated" in mid-2017
 - https://www.dnr.wa.gov/forest-practicesillustrated
 - DNR created a fact sheet in 2018
 - https://www.dnr.wa.gov/publications/fp_pe
 st_forestry_factsheet.pdf?xbf78dn2



- 1. Availability of better information (cont.)
- The work group recommended that the Forest Practices Board update Board Manual Section 12
 - Work been delayed due to Board's focus on other priorities

2. Advance notification

- Agreement was not reached on changes to existing notification requirements
- DNR encourages interested people to sign up to use the forest practices application review system (FPARS)
 - https://www.dnr.wa.gov/programs-andservices/forest-practices/forest-practices-applicationreview-system-fpars



3. Forest Practices Application information

 The FPA form and instructions were changed in March 2017

4. Field compliance

- DNR committed to emphasizing and tracking compliance visits
 - 165 compliance visits in last two years



- 5. Reporting after application has been completed
 - Agreed to recommend this as a voluntary best management practice
 - DNR:
 - made changes to its information system to accommodate
 - worked through DNR Region staff to educate landowners
 - Over two years, 90 voluntary reports have been received



