



## FOREST SERVICE MANUAL INTERMOUNTAIN REGION (REGION 4) OGDEN, UT

### FSM 2100 - ENVIRONMENTAL MANAGEMENT

#### CHAPTER 2150 - PESTICIDE-USE MANAGEMENT AND COORDINATION

**Supplement No.:** 2100-2014-1

**Effective Date:** May 19, 2014

**Duration:** This supplement is effective until superseded or removed.

**Approved:** NORA B. RASURE  
Regional Forester

**Date Approved:** 05/07/2014

**Posting Instructions:** Supplements are numbered consecutively by Title and calendar year. Post by document; remove entire document and replace it with this supplement. Retain this transmittal as the first page(s) of this document. The last supplement to this title was 2100-2012-1 to FSM 2150.

<b>New Document(s):</b>	2150	11 Pages
<b>Superseded Document(s) by Issuance Number and Effective Date</b>	2150 (Supplement 2100-2012-1, 8/13/2012)	13 Pages

**Digest:**

Technical, formatting, and editorial changes to make supplement consistent with FSM 2150, Amendment No. 2100-2013-1.

**FSM 2100 – ENVIRONMENTAL MANAGEMENT  
CHAPTER 2150 – PESTICIDE-USE MANAGEMENT AND COORDINATION**

## **2150.4 - Responsibility**

### **2150.44 - Regional Foresters**

The Regional Forester of the Forest Service Intermountain Region has the responsibility to:

4. Review, and approve or disapprove, those Pesticide Use Proposals (PUPs) on NFS lands for which approval authority is retained by the Regional Forester. The Regional Forester shall not delegate authority for PUP approval to other line officers for projects within:
  - a. Designated Wilderness areas, including Wilderness study areas,
  - b. Established or proposed Research Natural Areas, and
  - c. For any use of sodium cyanide in any amount.
  - d. For use of strychnine in areas occupied by grizzly bears.

These approvals must be made by the Regional Forester through the Pesticide Use Proposal prior to implementation of the proposed activity.

6. Certify National Pollutant Discharge Elimination System (NPDES) Notice of Intent (NOI) proposals for pesticide discharge to Waters of the United States (U.S.) prior to proposed pesticide applications. Completed NPDES NOI's should be supported by a Pesticide Discharge Management Plan (PDMP) (see sec. 2151 below).

### **2150.47 - Forest Supervisors and District Rangers**

PESTICIDE USE PROPOSALS (PUP's):

Approval authority is delegated to Forest Supervisors for application of pesticides on National Forest lands, except for those uses where approval is retained by the Regional Forester (see sec. 2150.44 above).

Forest Supervisor for pesticide-use management shall:

1. Manage all pesticide-use activities on the Forest including the maintenance of all required records and reports (FSH 2109.14).
2. Ensure that only properly trained, and, when required, licensed or certified personnel handle and use pesticides on land administered by the Forest Service. This requirement also pertains to applications by permittees, grantees, or licensees (FSM 2150.47).

**FSM 2100 – ENVIRONMENTAL MANAGEMENT  
CHAPTER 2150 – PESTICIDE-USE MANAGEMENT AND COORDINATION**

3. Ensure that all projects involving the use of pesticides on lands administered by the Forest Service are approved by the proper authority.
4. Ensure that all pesticides and pesticide containers are stored, transported, and disposed of in accordance with recommended procedures (FSH 2109.14 and FSH 6709.11, sec. 61.7-61.71c).
5. Ensure that an up-to-date inventory is maintained of all pesticides. This inventory must be posted on the outside of the storage facility and should include an "in and out" record to enable determination of materials received, used, on hand, and location (FSH 2109.14).
6. Ensure that a restricted-use pesticide application and disposal log (FS-2100-5) is maintained (FSH 2109.14, ch. 70) in the files of the unit responsible for the use (usually the Ranger District).
7. Ensure that all pesticides used on NFS administered lands are reported (FSM 2154 and FSH 2109.14, ch. 70).
8. Ensure that all accidents or incidents involving pesticides are reported (FSH 2109.14, ch. 60).
9. Ensure there is a safety plan covering all projects involving pesticide-use on NFS lands (FSM 2151.3 and FSH 6709.11). A copy of this plan shall be filed in the project folder.
10. Ensure that all pesticide applications are made as approved.
11. Ensure that a post-treatment evaluation report is completed for all pesticide-use projects (FSM 2152.1 and FSH 2109.14, ch. 50).
12. Ensure that Pesticide-Use Proposals, Form FS-2100-2, are submitted to the Regional Office (FSM 2151.2) for those pesticide uses for which approval is not delegated to Forest Supervisors (FSM 2150.44) and copies maintained at the Supervisor's Office for these, as well as all other uses.
13. Advise the Regional Forester of the name of the designated Forest Pesticide-Use Coordinator and any subsequent replacement.
14. Comply with NEPA requirements (FSM 1950), and when pesticide use is proposed in areas occupied by any Threatened, Endangered, or Sensitive Species, meet Endangered Species Act requirements (FSM 2670) and requirements for Regional Forester designated Sensitive Species.

**FSM 2100 – ENVIRONMENTAL MANAGEMENT  
CHAPTER 2150 – PESTICIDE-USE MANAGEMENT AND COORDINATION**

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES):**

15. Ensure that NPDES NOI proposals are completed and submitted to the Regional Forester for approval and that all applications of pesticides to Waters of the U.S. are covered under appropriate State or Federal NPDES permits.
16. Verify that State pesticide proposals comply with NPDES permitting requirements, label requirements and meet any other State requirements.
17. Verify that applications of pesticides to Waters of the U.S. are conducted in accordance with NPDES permit and label requirements and restrictions.

Forest Pesticide-Use Coordinator – The Forest Pesticide-Use Coordinator provides a focal point for pesticide-use questions and concerns, and assures Forest-level attention and coordination for all pesticide uses. The Coordinator should be certified to use or supervise the use of restricted-use pesticides (FSM 2155.2) applicable on the Forest. The responsibilities of the Forest Pesticide Coordinator shall be included in the employee's position description for that position.

Specific duties and responsibilities of the Forest Pesticide-Use Coordinator include:

1. Maintain contact and familiarity with all pesticide-use activities on the Forest. Provide technical assistance and advice for pesticide-use in accordance with current Federal, State, and local regulations. Coordinate appropriate interdisciplinary input into project planning and NEPA compliance.
2. Provide advice for proper storage and disposal of pesticides and pesticide containers (FSM 2153.2, FSM 2160, FSH 2109.14, ch. 40 and FSH 6709.11). Conduct periodic review(s) of storage and handling of pesticides (FSH 2109.14, sec. 41.11).
3. Review all Pesticide-Use Proposals (Form FS-2100-2) for accuracy and completeness. Recommend approval action for those delegated to Forest Supervisor authority. Maintain required records.
4. Identify Forest pesticide-use training and certification needs and arrange for needed training.
5. Conduct periodic reviews or functional assistance trips of pesticide application projects, including those by permittees, grantees, or licensees, to determine if use is performed under direct supervision of properly trained, certified personnel, and is in compliance with label instructions and Forest Service policies.
6. Review reports of accidents or incidents involving pesticides for completeness and accuracy before final submission to the Regional Forester (FSM 2154, para. 4).

**FSM 2100 – ENVIRONMENTAL MANAGEMENT  
CHAPTER 2150 – PESTICIDE-USE MANAGEMENT AND COORDINATION**

7. Review project work plans involving pesticide-use for adequacy of safety, monitoring, and post-control evaluation considerations.
8. Check Pesticide-Use from each Ranger District for accuracy and ensure data has been posted into the corporate database of record (Forest Activity Tracking System or FACTS), by October 15.
9. Ensure compliance in changes in pesticide registrations, suspensions, withdrawals, or cancellations.
10. Keep Forest Supervisor informed on all pesticide uses, issues, and concerns that have the potential to be highly controversial.

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES):**

11. Prepare and maintain pesticide discharge management plan and NOI and submit on behalf of the Forest Supervisor to Regional Forester for approval and certification.
12. Ensure that all pesticide applications to Waters of the U.S. are covered under appropriate State or Federal NPDES permits and that all applications comply with permit and label requirements or restrictions.
13. Report end of year pesticide use in Waters of the U.S. to the appropriate State or Federal agency by annual report date.

**2151 - PLANNING AND REVIEW OF PESTICIDE USE**

Only registered pesticides shall be used for operational projects. Registered pesticides are those that have been registered with the Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, and/or registered by a State for special and/or local needs. Most registrations are specific as to target organisms, sites, formulations, and concentration of active ingredients, application methods and rates, and even geographic areas. This means compliance with all label requirements.

It is not a label violation to (1) apply a pesticide at a dosage concentration or frequency less than that specified on the label, (2) apply a pesticide against any target pest not specified on the label if the application is to a crop, animal, or site specified on the label, (3) employ any method of application not prohibited by the label, or (4) mix a pesticide with a fertilizer when such mixture is not prohibited by the label. When any doubt exists about the interpretation or registration status of a pesticide, confirmation from the next higher pesticide-use authority must be obtained prior to use. Registrations can be and often are withdrawn or changed. Thus, it is important to secure up-to-date information on the registration status of any pesticide planned for use.

**FSM 2100 – ENVIRONMENTAL MANAGEMENT  
CHAPTER 2150 – PESTICIDE-USE MANAGEMENT AND COORDINATION**

The following personnel may be contacted for information on pesticides used in the various situations described:

Forest Pest Management	Group Leader	Insect and disease control projects.
Rocky Mountain Research Station	Project Leader Entomology	Any research project involving pesticide-use.
Range & Watershed	Range Improvement Specialist/Invasive Species Coordinator	Projects that involve manipulation of vegetation other than for commercial timber production.
Timber	Regional Silviculturist/ Geneticist	Manipulation of tree form vegetation.
Fisheries and Wildlife	T&E and ADC Specialist	Projects that involve animal or fish control and those projects having wildlife effect implications; particularly threatened, endangered, and/or sensitive species.
Facilities	Facilities/Hazardous Materials Engineer	Pesticide storage, spills, and solid waste.
Safety & Health	Occupational Safety & Health Specialist	Employee and public health and safety both on and off site.

Pesticide Discharge Management Plan (PDMP) - A Pesticide Discharge Management Plan (PDMP) must be prepared for all Forest Service projects that involve the use of pesticides applications to Waters of the U.S. in accordance with State and/or Environmental Protection Agency (EPA) NPDES

Aquatic Applications of Pesticides by State Agencies – The Forest Service Intermountain Region has Memoranda of Understanding with State Agencies so the State Agency can apply registered pesticides to remove unwanted aquatic species from waters located on NFS lands. The determination of a need to treat, and the application of pesticides consistent with label requirements are considered State actions. While Federal regulations at 36 CFR 261.9(f) require that use of all pesticides which affect NFS lands be permitted by the Forest Service, applications of pesticides by State agencies will generally meet the criteria for waiver of this permit requirement set forth in regulations at 36 CFR 251.50(e)(1)&(2). Where the Forest Service Intermountain Region has a MOU with State Agencies, early coordination with State Agencies can help ensure adequate protections are in place.

**FSM 2100 – ENVIRONMENTAL MANAGEMENT  
CHAPTER 2150 – PESTICIDE-USE MANAGEMENT AND COORDINATION**

The Forest Service Intermountain Region recognizes that piscicide applications conducted by State wildlife and fish management agencies typically have only nominal effects on NFS lands and resources and do not conflict with NFS programs and operations, and that the State wildlife and fish management agencies adequately regulate their piscicide applications to assure NPDES permitting requirements under the Clean Water Act are met. Similarly, piscicide application may require ancillary uses of NFS lands that are subject to Forest Service permit requirements, such as certain motorized uses, and the criteria for waiver of permit requirements will often apply to these uses on NFS lands as well.

When action is required by the Forest Service Intermountain Region to permit the use of piscicides in water bodies located on NFS lands, or ancillary activities, this action will typically fall under the categorical exclusion at 36 CFR 220.6(d)(8) for minor, short-term uses of NFS lands, which does not require documentation by the Forest Service. There may be exceptions where a specific piscicide proposal or ancillary activities will require more than minor, short-term uses of NFS lands, or where there are extraordinary circumstances related to the proposal (FSH 1909.15, ch. 30).

Notification of the Forest Service Intermountain Region by the State Agency proposing the pesticide application will provide the Forest Service Intermountain Region the opportunity to assess whether there is any reason that the waiver of permit requirements and application of the categorical exclusion would not apply to specific proposals.

Documentation of all environmental analyses and NEPA compliance will be maintained with project files. Project EA's or EIS's will tier to available programmatic NEPA documents such as Forest Plan EIS's, R-4 Noxious Weed and Poisonous Plant EIS, Rangeland Grasshopper EIS, and so forth.

## **2152 – PESTICIDE-USE EVALUATION AND QUALITY CONTROL**

### **2152.1 – Post-Application Evaluation**

The project work plan and its associated approved Form FS-2100-2, Pesticide-Use Proposal (FSM 2154, para. 2), shall prescribe specific procedures by which treatment effectiveness can be accurately and precisely assessed. Evaluations shall be performed against standards developed before treatment, and the success of the project shall be evaluated against these standards. The state-of-the-art for sampling varies between pests. The most current and realistic sampling techniques should be tailored to individual pest conditions. Other items that should be evaluated are (1) methods of improving application techniques, (2) impact on non-target species, (3) methods of reducing or eliminating hazard to nontarget organisms, (4) whether the dosage rate was adequate or could be reduced, (5) whether timing was correct, (6) whether safety methods were adequate, and (7) to what extent, if any, other factors contributed to suppression of target pest. In some cases, post-treatment evaluations should be made several times at successive periods after treatment.

**FSM 2100 – ENVIRONMENTAL MANAGEMENT**  
**CHAPTER 2150 – PESTICIDE-USE MANAGEMENT AND COORDINATION**

Project approval and implementation presuppose the reliability of predicted minimal harm to nontarget organisms and adequate reduction of the pest damage. By post-treatment evaluation, the actual effects are compared with the predicted effects of the treatment on both the pest and the environment. The information gained will be used in planning future work.

1. Checking Application Procedures. Ensuring that pesticides are used in accordance with project plans and product label instructions assures quality control in pesticide applications. Project supervisors must ensure proper label compliance, equipment calibration, equipment usability, spray coverage, and volume of pesticides used. Project supervisors shall take corrective action immediately if deviations from project work or safety plans or pesticide label instructions occur.
2. Pesticide Residues Monitoring. Pesticide residues monitoring requirements shall be determined on a case-by-case basis. On controversial pesticide projects, residues monitoring may be required to clarify persistence, scope of influence, and movement. On field experiments and pilot control projects, residues monitoring may be required to obtain or maintain EPA registration. The type, number, and location of monitoring sample points shall be determined when monitoring plans are developed for such projects. The number of samples will depend on anticipated statistical variability within the project area. Pesticide residues monitoring needs shall be determined and, if needed, the sampling protocol shall be specified during the environmental analysis process for each pesticide-use project.
3. To be in compliance with NPDES permitting Forests must follow State requirements for monitoring effects on non-target species.

**2153 – PESTICIDE SAFETY, STORAGE, TRANSPORTATION, AND DISPOSAL**

A Safety Plan must be prepared for all Forest Service projects that involve the use of pesticides. Items that must be addressed in a pesticide project Safety Plan include: type of application, chemicals being used, storage, transportation, spills, emergency contacts, manufacturer's material safety data sheet, personal protective equipment required, accessibility of project site, and first aid supplies to be available on project site.

The following Poison Control Center contact information must be maintained where it is immediately available to all who use or supervise the use of pesticides.

Poison Control Center locations adjacent to and within the Intermountain Region are as follows:

CALIFORNIA

California Poison Control System – Central Office

Phone 1-800-222-1222



**FSM 2100 – ENVIRONMENTAL MANAGEMENT**  
**CHAPTER 2150 – PESTICIDE-USE MANAGEMENT AND COORDINATION**

University of California, San Francisco  
School of Pharmacy, Box 1262  
San Francisco, CA 94143-1262  
Email: [coadmin@calpoison.org](mailto:coadmin@calpoison.org)  
Website: [www.calpoison.org](http://www.calpoison.org)

California Poison Control System – Fresno/Madera Division Phone: 1-800-222-1222  
Children's Hospital Central California  
9300 Valley Children's Place, MB 15  
Madera, CA 93638-8762  
Website: [www.calpoison.org](http://www.calpoison.org)

California Poison Control System – Sacramento Division Phone: 1-800-222-1222  
University of California Davis Medical Center  
2315 Stockton Boulevard  
Sacramento, CA 95817  
Website: [www.calpoison.org](http://www.calpoison.org)

California Poison Control System – San Diego Division Phone: 1-800-222-1222  
University of California San Diego Medical Center  
200 West Arbor Drive  
San Diego, CA 92103-8925  
Website: [www.calpoison.org](http://www.calpoison.org)

California, Poison Control System – San Francisco Division Phone: 1-800-222-1222  
UCSF Box 1369  
San Francisco, CA 94143-1369  
Email: [pcctk@calpoison.org](mailto:pcctk@calpoison.org) (Not for emergency use)

IDAHO

Rocky Mountain Poison Control System Phone: 1-800-222-1222  
777 Bannock Street  
Mail Code 0180  
Denver, CO 80204-4028  
Website: [www.rmpdc.org](http://www.rmpdc.org)

NEVADA

Rocky Mountain Poison Control System Phone: 1-800-222-1222  
777 Bannock Street  
Mail Code 0180  
Denver, CO 80204-4028

**FSM 2100 – ENVIRONMENTAL MANAGEMENT  
CHAPTER 2150 – PESTICIDE-USE MANAGEMENT AND COORDINATION**

Website: [www.rmpdc.org](http://www.rmpdc.org)

UTAH

Utah Poison Control Center  
585 Komas Drive  
Suite 200

Phone: 1-800-222-1222

Salt Lake City, UT 84108

Phone: 801-587-0600

Fax: 801-581-4199

Website: [www.utahpoisoncontrol.org](http://www.utahpoisoncontrol.org)

WYOMING

Nebraska Regional Poison Center  
8401 West Dodge Road  
Suite 115

Phone: 1-800-222-1222

Omaha, NE 68114

Website: [www.nebraskapoison.com](http://www.nebraskapoison.com)

COLORADO

Rocky Mountain Poison and Drug Center  
777 Bannock Street  
Mail Code 0180

Phone: 1-800-222-1222

Denver, CO 80204-4028

Website: [www.rmpdc.org](http://www.rmpdc.org)

**2154 – PESTICIDE-USE RECORDKEEPING AND RECORDING**

Forest Supervisors shall submit the following reports to the Regional Office. These records are considered to be temporary and the retention period is 75 years (FSH 6209.11, ch. 40).

1. Pesticide-Use Report. All pesticide used on NFS lands must be entered into the corporate database of record annually by October 15.
2. Pesticide-Use Proposal, Form FS-2100-2. Forest Service units must complete Form FS-2100-2, Pesticide-Use Proposal, for all proposed pesticides used on NFS lands, except for housekeeping-type uses or State pesticide use outside of Wilderness areas. Pesticide-use proposals are good for the life of the project and must be kept in the project file. Proposals should be reviewed annually; if any changes in type of chemical, rate, or active ingredient are made they should be resubmitted for approval (FSH 2109.14, sec. 13.11). Proposals that require higher-than-Forest-Supervisor approval are to be submitted to the

**FSM 2100 – ENVIRONMENTAL MANAGEMENT  
CHAPTER 2150 – PESTICIDE-USE MANAGEMENT AND COORDINATION**

Regional Forester, through the official correspondence process, prior to April each year. Emergency proposals, clearly marked so, may be submitted at any time.

Pesticide-use proposals submitted to the Regional Office for review and approval must be accompanied by an approved NEPA document. All environmental analyses shall be sufficiently complete and documented to fully satisfy NEPA (FSM 1950 and FSH 1909.15, National Environmental Policy Act Handbook).

3. Restricted-Use Pesticide Application and Disposal Log (Form FS-2100-5). Maintain log daily or as needed by unit responsible for the projects and storage facilities involved.
4. Pesticide Accident and Incident Reports. Forest Supervisors must immediately report to the Forest Pest Management Group Leader, Regional Office, any incident resulting from pesticide-use on NFS lands, or from any cooperative project that may affect public welfare or that may be of special interest to the public or press. Specific instructions for filing Report FS-2100-D, Pesticide Accident and Incident Report, are in FSH 2109.14, ch. 60. Use home telephone numbers any hour of the day or night. Timeliness is the most important aspect of this requirement. Required notification procedures are set forth in the Safety and Health Program Handbook, FSH 6709.12. If in doubt, use the 24-hour fire dispatch number.
5. Pesticide Storage Facility Inspection Checklist (FSH 2109.14, sec. 41.11, ex. 01). This checklist provides a systematic and consistent way to inspect and document both permanent and temporary pesticide storage facilities. All pesticide storage facilities shall be inspected at least annually. One copy of the inspection form shall be maintained in the 2150 files for the unit responsible for the pesticide storage facility.
6. NPDES Reports. Forests must meet appropriate State or Federal NPDES reporting requirements.

## **2155 – PESTICIDE-USE TRAINING AND CERTIFICATION**

The Regional Pesticide-Use Specialist is responsible for administering the Forest Service Plan for certifying employees who use or who supervise the use of restricted-use pesticides. In the Forest Service Intermountain Region all certification shall be done by States. Reciprocal agreements exist between Idaho, Utah, and Wyoming. California and Nevada require their own certificate (FSM 2150.46).