

*Wildland Fire Chemical Misapplication Reporting (WFCMR) Screenshots  
To Be Used in the Field to Capture Information for Input into the WFCMR Reporting Program  
<http://www.fs.fed.us/fire/retardant/index.html> - Additional Help documents can be found here too.*

## INTERAGENCY WILDLAND FIRE INTERAGENCY WILDLAND FIRE AERIAL FIRE RETARDANT MISAPPLICATION REPORT MISAPPLICATION REPORTING FORM

For reporting misapplication of Interagency Wildland Fire Aerial Fire Retardant Misapplication Report that was aerially applied only.  
(Complete immediately after misapplication or as soon as safe to enter) \* = required field

1. Incident #: <input style="width: 50px;" type="text"/> * 2. Incident name: <input style="width: 100px;" type="text"/> *	3. Date of misapplication: <input style="width: 50px;" type="text"/> <input type="calendar"/> * 4. Time: <input style="width: 50px;" type="text"/>																																	
5. Misapp location (lat/long)(decimal format) <input style="width: 50px;" type="text"/> * <input style="width: 50px;" type="text"/> * <a href="#">Click here for a lat/long conversion tool</a>	6. Discovery date if different from #3 above: <input style="width: 50px;" type="text"/> <input type="calendar"/>																																	
7. Agency: <input type="text"/> * 8. Area: <input type="text"/> * 9. Unit: <input type="text"/> * 10. Subunit: <input type="text"/> *	11. Retardant name: <input style="width: 100px;" type="text"/> *																																	
12. Size of fire (acres): <input style="width: 50px;" type="text"/> *	13. Misapplication type: <input type="radio"/> Exception <input checked="" type="radio"/> Accidental *																																	
14. Delivery method: <input type="radio"/> Airtanker <input type="radio"/> SEAT <input type="radio"/> Helicopter *	15. Forest Service only: Is this part of the 5% assessment of fires less than 300 acres? <input type="radio"/> Yes <input checked="" type="radio"/> No *																																	
16. Avoidance Area Description (check all that apply) <input type="checkbox"/> Waterway buffer zones (300' or larger) <input type="checkbox"/> Waterway <input type="checkbox"/> Aquatic TEPCS habitat (FS Only) <input type="checkbox"/> Terrestrial TEPCS habitat (FS Only) <input type="checkbox"/> Cultural resource (FS Only) <input type="checkbox"/> Sacred site (FS Only) <small>TEPCS: Threatened, Endangered, Proposed, Candidate, or Sensitive Species - these are decision areas designated by each Forest</small> <small>Waterway: Any body of water including lakes, rivers, streams and ponds whether or not they contain aquatic life. This is broadly interpreted to include swamps, marshes, and other wetlands. *</small>																																		
17. Description of wildland fuel at the site (check all that apply) <input type="checkbox"/> Open light fuels <input type="checkbox"/> Brush <input type="checkbox"/> Open timber/grass <input type="checkbox"/> Timber/brush <input type="checkbox"/> Heavy timber/closed canopy <input type="checkbox"/> Slash *																																		
18. Description of fire chemical coverage at the site <input type="checkbox"/> Light <input type="checkbox"/> Spotty <input type="checkbox"/> Continuous <input type="checkbox"/> Other (comment please) <input style="width: 50px;" type="text"/> *																																		
19. Number of drops in avoidance areas: <input style="width: 50px;" type="text"/> *																																		
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22. Person reporting: <input style="width: 50px;" type="text"/> * 23. Unit: <input style="width: 50px;" type="text"/> * 24. Email: <input style="width: 50px;" type="text"/> * 25. Phone: <input style="width: 50px;" type="text"/> *																																		
26. Observed environmental effects: <input style="width: 100px;" type="text"/> *																																		
27. Resource advisor name: <input style="width: 50px;" type="text"/> * 28. Resource advisor email: <input style="width: 50px;" type="text"/> * 29. Resource advisor phone: <input style="width: 50px;" type="text"/> * <small>Resource advisor or qualified resource personnel MUST complete the Site Assessment Forms (Required for FS only) in addition to this form.</small>																																		
30. Were appropriate entities notified? <input type="checkbox"/> USFWS <input type="checkbox"/> NOAA <input type="checkbox"/> DEQ (comment please) <input type="checkbox"/> Other (comment please) * <input style="width: 50px;" type="text"/> *																																		
<div style="border: 1px solid gray; padding: 5px; margin: 5px;"> <p style="font-size: small; margin: 0;">Upload related files</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th style="width: 70%;">File Name</th> <th style="width: 15%;">Size (KB)</th> <th style="width: 15%;">Progress</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <span><input type="button" value="Add Files"/></span> <span><input type="button" value="Save"/></span> <span><input type="button" value="Delete"/></span> <span><input type="button" value="Clear"/></span> </div> </div>		File Name	Size (KB)	Progress																														
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This form is an interagency Form to be used for other agencies and partners. There are drop down boxes for agency identification. Uploading files for this form can include photos, maps, or other documents.

For FS, environmental effect/assessment reports, monitoring results, email communications with services should be saved and uploaded in the terrestrial and aquatic assessment forms.

DOI, BIA other agencies can use file upload function on this form for all environmental effects, they will not be prompted to complete any other assessment reports.

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**INTERAGENCY WILDLAND FIRE  
 INTERAGENCY WILDLAND FIRE FOAMS, GELS OR GROUND BASED FIRE RETARDANT  
 MISAPPLICATION REPORT  
 MISAPPLICATION REPORTING FORM**

For reporting misapplication of Interagency Wildland Fire Foams, Gels or Ground Based Fire Retardant Misapplication Report that were applied via ground or aerial applications.

(Complete immediately after misapplication or as soon as safe to enter) \* = required field

1. Incident #: <input type="text"/> *		3. Date of misapplication: <input type="text"/> <input type="text"/> * 4. Time: <input type="text"/>																																																										
2. Incident name: <input type="text"/> *		6. Discovery date if different from #3 above: <input type="text"/> <input type="text"/>																																																										
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7. Agency: <input type="text"/> *	8. Area: <input type="text"/> *	11. Name of fire chemical: <input type="text"/>																																																										
9. Unit: <input type="text"/>	10. Subunit: <input type="text"/>																																																											
12. Size of fire (acres): <input type="text"/> *	13. Misapplication type: <input type="radio"/> Exception <input checked="" type="radio"/> Accidental *																																																											
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**SITE ASSESSMENT OF IMPACTS IN TERRESTRIAL SITE ASSESSMENT AVOIDANCE AREAS**

For reporting misapplication of aerially applied fire retardant only \* = required field

**Click here for help (instructions) with this form**

1. Incident #: <input type="text"/> * 2. Incident name: <input type="text"/> * 7. Misapp location (lat/long) <input type="text"/> <input type="text"/> (decimal format) * <a href="#">Click here for a lat/long conversion tool</a> 10. Person reporting: <input type="text"/> * 12. Amount of area affected <input type="text"/> (acres) * <input type="text"/> (% of total avoidance area) * 14. Vegetation type: <input type="text"/> * 15. Is retardant visible on veg? <input type="radio"/> Yes <input type="radio"/> No * 16. Was vegetation burned? <input type="radio"/> Yes <input type="radio"/> No * 17. Burn severity? <input type="radio"/> Low <input type="radio"/> Medium <input type="radio"/> High * 18. Canopy remaining %: <input type="text"/> 19. Ground cover remaining %: <input type="text"/> 20. Soil type: <input type="text"/>	3. Agency: FS <input type="text"/> * 4. Area: <input type="text"/> * 5. Unit: <input type="text"/> * 6. Subunit: <input type="text"/> * 8. Field assessment date: <input type="text"/> <input type="text"/> * 9. Time: <input type="text"/> 11. Species, critical habitat, or cultural resource/sacred site in avoidance area: <input type="text"/> * 13. Avoidance area where retardant was misapplied <input type="checkbox"/> Edge <input type="checkbox"/> Partial <input type="checkbox"/> Center * 21. Non native invasive species present? <input type="radio"/> Yes <input type="radio"/> No 22. If no to non native, are NNIS close? <input type="radio"/> 100' <input type="radio"/> 101-1000' <input type="radio"/> 1000+* 23. NNIS species names: <input type="text"/> 24. NNIS treated? <input type="radio"/> Yes <input type="radio"/> No 25. NNIS method: <input type="text"/>																																	
<div style="border: 1px solid gray; padding: 5px;">                     Upload related files  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">File Name</th> <th style="width: 15%;">Size (KB)</th> <th style="width: 15%;">Progress</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> <p style="font-size: small; text-align: center;">Multiple files can be uploaded and saved within WFCMR program</p> <p style="text-align: right;"> <input type="button" value="Add Files"/> <input type="button" value="Save"/> <input type="button" value="Delete"/> <input type="button" value="Clear"/> </p> </div>	File Name	Size (KB)	Progress																															26. Weather events post retardant application: <input type="text"/>
File Name	Size (KB)	Progress																																
27. Adverse impact? <input type="radio"/> Yes <input type="radio"/> No * <input style="width: 100%; height: 20px;" type="text"/>																																		
28. Species specific terms and conditions or reasonable/prudent measures associated with species as described in the BO where this occurred? * <input style="width: 100%; height: 20px;" type="text"/>																																		
29. Take expected? <input type="radio"/> Yes <input type="radio"/> No * 30. If yes, amount of habitat/# of individuals: <input type="text"/> 31. Has take exceeded authorized amount? <input type="radio"/> Yes <input type="radio"/> No * 32. Salvage necessary? <input type="radio"/> Yes <input type="radio"/> No * 33. If so, describe measures taken and agencies contacts <input style="width: 100%; height: 20px;" type="text"/>																																		
34. Is species a wide ranging species in other forests? <input type="radio"/> Yes <input type="radio"/> No * 35. Other forests/regions notified? <input type="radio"/> Yes <input type="radio"/> No * 36. Contact date: <input type="text"/> <input type="text"/>																																		
37. Reinitiation of consultation needed? <input type="radio"/> Yes <input type="radio"/> No * 38. Misapplication trigger a restriction of future retardant? <input type="radio"/> Yes <input type="radio"/> No * 39. Who/how additional avoidance areas are identified (GIS/Fire Staff/IC updates) <input style="width: 100%; height: 20px;" type="text"/>																																		
40. Is follow-up monitoring required as a Term and Condition or RPM associated with the BO or recommend by resource advisor completing this evaluation? <input type="radio"/> Yes <input type="radio"/> No *																																		
41. FWS contacted: Office: <input type="text"/> * Staff: <input type="text"/> * 42. Summary of communication (phone/email/meeting) <input style="width: 100%; height: 20px;" type="text"/>																																		
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# WFCMR

Wildland Fire Chemical Misapplication Reporting

HOME
REPORTS
DOCUMENTS
ARCHIVE
LOGOUT

### Site Assessment of Impacts in Aquatic Avoidance Areas

For reporting misapplication of aerially applied fire retardant only - \* = required field  
**Click here for help (instructions) with this form**

1. Incident #: <input type="text"/> 2. Incident name: <input type="text"/> 7. Misapp location (lat/long) <input type="text"/> <input type="text"/> (decimal format) * <a href="#">Google map tool</a>   <a href="#">Lat/long conversion tool</a> 10. Person reporting: <input type="text"/>	3. Agency: <input type="text"/> 5. Unit: <input type="text"/> 4. Area: <input type="text"/> 6. Subunit: <input type="text"/> 8. Field assessment date: <input type="text"/> '09, Time: <input type="text"/> 11. Species, critical habitat, or cultural resource/sacred site in avoidance area: <input type="text"/> 13. Avoidance area where retardant was misapplied <input type="checkbox"/> Edge <input type="checkbox"/> Partial <input type="checkbox"/> Center <input type="checkbox"/> Mapped Dry Intermittent Stream * - Check all that apply 19. Streamside vegetation burned? <input type="radio"/> Yes <input checked="" type="radio"/> No 19. If yes, burn severity? <input type="radio"/> L <input type="radio"/> M <input type="radio"/> H 20. Estimated canopy cover remaining: <input type="text"/> 21. Estimated slope of avoidance area: <input type="text"/>						
12. Amount of area affected <input type="text"/> (acres) * <input type="text"/> (% of total avoidance area)* 14. Stream order: <input type="text"/> 15. Stream width: <input type="text"/> 16. Stream depth: <input type="text"/> 17. Stream flow estimate: <input type="text"/> 22. Water quality data collected? 23. Visual clarity: <input type="text"/> 24. Color: <input type="text"/> 27. Conductivity: <input type="text"/> 28. Distance to live water if applied within buffer zone or intermittent dry stream <input type="text"/> *	19. Streamside vegetation burned? <input type="radio"/> Yes <input checked="" type="radio"/> No 19. If yes, burn severity? <input type="radio"/> L <input type="radio"/> M <input type="radio"/> H 20. Estimated canopy cover remaining: <input type="text"/> 21. Estimated slope of avoidance area: <input type="text"/> 22. Water quality data collected? 23. Visual clarity: <input type="text"/> 24. Color: <input type="text"/> 27. Conductivity: <input type="text"/> 28. Distance to live water if applied within buffer zone or intermittent dry stream <input type="text"/> * 29. Weather events post retardant application: <input type="text"/>						
<b>Rules for uploading files...</b> <ul style="list-style-type: none"> <li>• No special characters in filename (#, %, etc.)</li> <li>• Filename cannot be over 40 characters in length</li> <li>• Filename cannot be over 20 characters in length</li> <li>• Select up to 20 files at one time</li> </ul>							
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File Name	Size (KB)	Progress					
30. Adverse impact? <input type="radio"/> Yes <input checked="" type="radio"/> No * <input style="width: 100%; height: 20px;" type="text"/>							
31. Species specific terms and conditions or reasonable/prudent measures associated with species as described in the BO where this occurred? <input style="width: 100%; height: 20px;" type="text"/>							
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46. NOAA contacted: Office: <input type="text"/> * Staff: <input type="text"/> * Comments: 47. Summary of communication (phone/email/meeting) <input style="width: 100%; height: 20px;" type="text"/>							
48. State or other agency notification <input style="width: 100%; height: 20px;" type="text"/>							
49. Additional information <input style="width: 100%; height: 20px;" type="text"/>							
<input style="background-color: red; color: white; padding: 5px 20px;" type="button" value="SAVE"/>							

WFCMR

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**SUPPLEMENTAL MONITORING REQUIRED OR RECOMMENDED**  
Applies to terrestrial or aquatic species

**Introduction and Background**

The Forest Service has committed to a process for identifying, reporting, and remediating misapplications of aerially applied fire retardant. This is central to *all species* to minimize "take" of species or habitat or additional adverse effects.

**Required**

1. Follow-up Monitoring **required** as part of FWS T&C and RPM's (See Species Specific Local Requirements). or
2. Follow-up Monitoring as **required** by FS resource personnel during initial site assessment to determine effect, may be adjusted as to time fram (for instance verification of survival or TEP or sensitive species or particular concern, documentation of potential increases in NNIS as a result of retardant application, or other applicable factors)

**Recommended**

1. Follow-up Monitoring **required** as part of FWS T&C and RPM's (See Species Specific Local Requirements). or
  - o Changes in species composition after retardant application if applicable or data is available
  - o Evidence of recovery from impact from misapplication impacts
  - o Population monitoring
  - o Viability analysis of species or habitat (species present/habitat function) after aerial retardant application
  - o Effectiveness of mitigation measures (i.e. reintroduction of species) may be required or recommended

1. Incident #: <input type="text"/> * 2. Incident name: <input type="text"/> *	3. Agency: FS <input type="text"/> * 4. Area: <input type="text"/> * 5. Unit: <input type="text"/> * 6. Subunit: <input type="text"/> *																																	
7. Person reporting: <input type="text"/> * 8. Unit: <input type="text"/> * 9. Email: <input type="text"/> * 10. Phone: <input type="text"/> *	11. Name of species, critical habitat, or cultural resource/sacred site in avoidance area <input type="text"/> *																																	
12. Misapp location (lat/long)(decimal format) 33.47376 <input type="text"/> * -116.44705 <input type="text"/> * <a href="#">Click here for a lat/long conversion tool</a>	13. Initial field assessment date: <input type="text"/> * 14. Date for this follow up monitoring: <input type="text"/> *																																	
15. Type of monitoring <input type="text"/> *	16. Monitoring results <input type="text"/> *																																	
FWS Contacted 17. Date: <input type="text"/> * 18. Person: <input type="text"/> * 19. Office: <input type="text"/> *	NOAA Contacted 20. Date: <input type="text"/> * 21. Person: <input type="text"/> * 22. Office: <input type="text"/> *																																	
<div style="border: 1px solid gray; padding: 5px;">                     Upload related files                     <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 80%;">File Name</th> <th style="width: 10%;">Size (KB)</th> <th style="width: 10%;">Progress</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> <div style="margin-top: 5px;"> <input type="button" value="Add Files"/> <input type="button" value="Save"/> <input type="button" value="Delete"/> <input type="button" value="Close"/> </div> </div>		File Name	Size (KB)	Progress																														
File Name	Size (KB)	Progress																																
23. State or other agency notification: <input type="text"/> *																																		
24. Re-initiation of consultation needed? <input type="radio"/> Yes <input checked="" type="radio"/> No *	25. Does misapplication trigger a restriction on future retardant use? <input type="radio"/> Yes <input checked="" type="radio"/> No * 26. If yes, describe area <input type="text"/> *																																	
27. Follow up monitoring required? <input type="radio"/> Yes <input checked="" type="radio"/> No	28. Follow up monitoring recommended? <input type="radio"/> Yes <input checked="" type="radio"/> No *																																	
29. Wide ranging species? <input type="radio"/> Yes <input checked="" type="radio"/> No *	30. Forests/regions/contacts notified <input type="text"/> *																																	
31. Additional information (other activities associated with suppression of fire pertinent to avoidance areas, other activities associated with species within avoidance area that may affect impacts, supplemental or new research related to aerial fire retardant effects pertinent to this species, map of misapplication site, other). <input type="text"/> *																																		

## ASSESSMENT OF FIRES LESS THAN 300 ACRES IN SIZE FORM

### Reporting and Monitoring Requirement for Aerially-Applied Fire Retardant Only

**Objective**

This reporting form is to document that 5% of fires less than 300 acres where aerial fire retardant and identified avoidance areas exist (terrestrial/aquatic/waterways) are evaluated to determine if retardant entered an avoidance area. **If your forest uses aerial fire retardant and has avoidance areas, this form is required. If your forest has no fires less than 300 acres, where aerial retardant was used and avoidance areas are nearby, a negative reporting (zero) is required. This reporting is per forest/with a minimum of 1.** To add additional assessments if more than 1 is required, select your forest name in the existing list **and** add to your current list of assessments. Your info will be updated to reflect additional assessments. Forests that do not use aerially delivered fire retardant do not need to complete this assessment.

1. Agency: <input type="text" value="FS"/> * 3. Unit: <input type="text"/> *	2. Area: <input type="text"/> *	4. Number of Fires <b>per forest</b> LESS than 300 acres in size where avoidance areas present and aerial fire retardant was used <input type="text" value="1"/> * 5. Number of assessments (5% per forest/minimum of 1) <input type="text" value="3"/> *
Fire assessment 1		
1. Subunit: <input type="text"/> * 2. Incident num: <input type="text"/> *      3. Incident name: <input type="text"/> *      4. Fire date: <input type="text"/> *      5. Assessment date: <input type="text"/> * 6. Size of fire: <input type="text"/> * 7. Did retardant enter avoidance area? <input type="radio"/> Yes <input type="radio"/> No * 8. If yes, where (check all that apply): <input type="checkbox"/> Waterway buffer zone <input type="checkbox"/> Waterway <input type="checkbox"/> Aquatic TESP <input type="checkbox"/> Terrestrial TESP You must also follow all reporting and monitoring requirements for misapplication of aerially applied fire retardant. 9. Comments: <input type="text"/>		
Fire assessment 2		
1. Subunit: <input type="text"/> * 2. Incident num: <input type="text"/> *      3. Incident name: <input type="text"/> *      4. Fire date: <input type="text"/> *      5. Assessment date: <input type="text"/> * 6. Size of fire: <input type="text"/> * 7. Did retardant enter avoidance area? <input type="radio"/> Yes <input type="radio"/> No * 8. If yes, where (check all that apply): <input type="checkbox"/> Waterway buffer zone <input type="checkbox"/> Waterway <input type="checkbox"/> Aquatic TESP <input type="checkbox"/> Terrestrial TESP You must also follow all reporting and monitoring requirements for misapplication of aerially applied fire retardant. 9. Comments: <input type="text"/>		
Fire assessment 3		
1. Subunit: <input type="text"/> * 2. Incident num: <input type="text"/> *      3. Incident name: <input type="text"/> *      4. Fire date: <input type="text"/> *      5. Assessment date: <input type="text"/> * 6. Size of fire: <input type="text"/> * 7. Did retardant enter avoidance area? <input type="radio"/> Yes <input type="radio"/> No * 8. If yes, where (check all that apply): <input type="checkbox"/> Waterway buffer zone <input type="checkbox"/> Waterway <input type="checkbox"/> Aquatic TESP <input type="checkbox"/> Terrestrial TESP You must also follow all reporting and monitoring requirements for misapplication of aerially applied fire retardant. 9. Comments: <input type="text"/>		

Number of assessments = 5% of number in line-4 above and can be adjusted within the WFCMR Reporting Program

If at the end of the calendar year item #4 and #5 = 0; then enter zero for that calendar year and submit

**Aerial Application of Retardant  
Information sheet  
For  
Cultural Resource Managers and Resource Advisors**

By  
Linn Gassaway, North Zone Archaeologist, Sequoia National Forest

June 13, 2013

Information provided in this information sheet is a summary of information provided on the U.S. Forest Service’s Fire & Aviation Management webpage “Aerial Application of Fire Retardant” <http://www.fs.fed.us/fire/retardant/>

This summary is to provide Cultural Resource Managers and Archaeologist brief directions for the reporting the impacts of aerial fire retardant to cultural resources.

**Background**

From [Implementation Guide for Aerial Application of Fire Retardant January 31, 2013](#)

On December 13, 2011, U.S. Forest Service Chief Tom Tidwell signed a record of decision establishing new direction for the use of fire retardant applied from aircraft to manage wildfires on National Forest system (NFS) lands. The new direction approves the use of aerially applied fire retardant and implements an adaptive management approach that protects resources and continues to improve the documentation of retardant effects through reporting, monitoring and application coordination.....**The direction also provides greater protection for cultural resources including historic properties, traditional cultural resources, and sacred sites through closer coordination with states and Tribes....**

**Summary of Direction**

Land Ownership	Form	Direction	Comments
FS	<i>Interagency Wildland Fire</i>	New Direction, 2011 ROD	New direction, ROD, FEIS, Guide and Reporting Tools: <a href="http://www.fs.fed.us/fire/retardant/index.html">http://www.fs.fed.us/fire/retardant/index.html</a>
All others (BLM, FWS, NPS, Cal Fire, etc)	<i>Aerial Fire Retardant Misapplication</i>	2000 Guidelines (Updated)	2000 Guidelines (Updated) & Chapter 12 Red Book: <a href="http://www.fs.fed.us/rm/fire/wfcs/Application_Policy-MultiAgency_042209-UPDATE.pdf">http://www.fs.fed.us/rm/fire/wfcs/Application_Policy-MultiAgency_042209-UPDATE.pdf</a>

More information

- <http://www.fs.fed.us/fire/retardant/>
- Implementation Guide for Aerial Application of Fire Retardant January 31, 2013  
[http://www.fs.fed.us/fire/retardant/afr\\_handbook.pdf](http://www.fs.fed.us/fire/retardant/afr_handbook.pdf)
- *Assessment of Impacts in Avoidance Areas Reporting Tool* <http://www.nwportal.fs.usda.gov/>
- Directions filling out the Web reporting forms  
[http://www.fs.fed.us/fire/retardant/forms/wfcmr\\_getting\\_started\\_guide.pdf](http://www.fs.fed.us/fire/retardant/forms/wfcmr_getting_started_guide.pdf)

### **Funding for Reporting and Monitoring and Mitigation Actions**

During a fire if a misapplication is discovered and reported the **incident job code (P-code)** should be used for individuals' time in reporting and assessing the misapplication.

If a monitoring plan is developed the fire unit will request a new job code (P-code) from their dispatch office or appropriate personnel. The naming convention for the job code will be the name of the fire with "FR Monitoring" as part of the name for the fire. For example, the fire's name was Willow Creek so the new P-Code's name will be Willow Creek FR Monitoring. All monitoring and any mitigation costs will be charged to this code. If the monitoring and/or mitigation rolls into the next fiscal year, the fire unit will need to request the specific P-code to be rolled over. The job code can be rolled over each fiscal year as needed in order to capture the total cost of the misapplication.

**BAER plans will not include** any monitoring or mitigation for specific misapplication needs.

### **Reporting of Misapplication of Aerial Application of Fire Retardant on Cultural Resources**

- a) Report occurrences at time of event during suppression activities to the Incident Commander, and FMO who will:
  - i. Ensure the Interagency Wildland Fire Aerial Fire Retardant Misapplication Reporting Form is Completed (example of on-line form in Appendix B and On-line reporting tool – Wildland Fire Chemical Misapplication Reporting (WFCMR) database. The primary focus and data fields are related to species effects and may not be pertinent to CR impacts. CR information including photos and reports that focus on cultural resources can be uploaded within the file upload function.
  - o Notify the READ or local resource specialist, such as Forest Archaeologist or District Archaeologist to complete assessment of impacts. Site Assessment of Impacts Forms and Follow-up Monitoring Forms – WFCMR
    - *Assessment of Impacts in Avoidance Areas Reporting Tool found at:*  
<http://www.nwportal.fs.usda.gov/>
    - Reporting directions are at  
[http://www.fs.fed.us/fire/retardant/forms/wfcmr\\_getting\\_started\\_guide.pdf](http://www.fs.fed.us/fire/retardant/forms/wfcmr_getting_started_guide.pdf)
- b) If adverse impacts are found, the local resource specialists, Ranger District archaeologist or Forest Archaeologist should:
  - i. Notify SHPO and local tribes to determine the appropriate mitigation or restoration actions.
- c) Field Forms are provided below.

### **Follow-up Monitoring Process will:**

- a) Determine the amount of follow-up monitoring necessary as dictated by the extent of the impacts to resource identified during assessment of the misapplication.

### **Locational information**

Due to the nature of cultural resources and sacred sites, **no site specific information about the location of the sites will be included in upward reporting.** The WFCMR on-line reporting tool can be used to store and document information related to impacts. The reporting tool will hide all locational information (i.e. lat/longs) so that only the person who completes the form can view the actual location. It is the forests decision whether to use this tool or not. It is however, the forests' responsibility to ensure all local reporting is completed.

Records of the misapplication, the effects to the resource, the consultation process, and the resolution of adverse effects will be maintained by the local unit.



# INTERAGENCY WILDLAND FIRE AERIAL RETARDANT REPORT

## MISAPPLICATION REPORTING FORM Cultural Resources

(Complete immediately after misapplication or as soon as safe to enter)

1. Incident #: \_\_\_\_\_ 2. Incident name: \_\_\_\_\_ 3. Date of misapplication: \_\_\_\_\_ 4. Time: \_\_\_\_\_

5. Misapp location (lat/long) (decimal format) \_\_\_\_\_ 6. Discovery date if different from #3 above: \_\_\_\_\_

\_\_\_\_\_  
(Recommended use generalized lat/long example 36.000 -118.000)

7. Agency: \_\_\_\_\_ 8. Area/Region: \_\_\_\_\_ 9. Unit/Forest: \_\_\_\_\_

10. Subunit/District: \_\_\_\_\_ 11. Retardant Name \_\_\_\_\_

12. Size of fire (acres): \_\_\_\_\_ 13. Misapplication type:  Exception  Accidental

14. Delivery method:  Airtanker  Seat  Helicopter

15. Forest Service only: Is this part of the 5% assessment of fires less than 300 acres?  Yes  No

16. Avoidance Area Description (check all that apply)

Waterway buffer zone (300' or larger)  Waterway  Aquatic TEPCS habitat (FS Only)

Terrestrial TEPCS habitat (FS Only)  Cultural Resource (FS Only)  Sacred site (FS Only)

17. Description of wildland fuel at the site (check all that apply)

Open light fuels  Brush  open timber/grass  Timber/brush  Heavy timber closed canopy  Slash

18. Description of fire chemical coverage at the site

Light  Spotty  Continuous  Other (comment please \_\_\_\_\_)

19. Number of drops in avoidance areas: \_\_\_\_\_

20. Approx total number of gallons dropped in avoidance area: \_\_\_\_\_

21. Approx size of fire chemical application in avoidance area: \_\_\_\_\_ (Length x Width in feet)

22. Person reporting: \_\_\_\_\_

23. Unit: \_\_\_\_\_ 24. Email: \_\_\_\_\_ 25. Phone: \_\_\_\_\_

26. Observed environmental effects:

\_\_\_\_\_  
\_\_\_\_\_

27. Resource advisor name:

\_\_\_\_\_

28. Resource advisor email: \_\_\_\_\_ 29. Resource advisor phone: \_\_\_\_\_

Resource advisor or qualified resource personnel MUST complete the Site Assessment Forms (Required for FS only) in addition to this form.

31. Were appropriate entities notified?  USFWS  NOAA  DEQ (comment please)  Other **SHPO** \_\_\_\_\_

Photos for attachment

\_\_\_\_\_

# INTERAGENCY WILDLAND FIRE AERIAL RETARDANT REPORT

## SITE ASSESSMENT OF IMPACTS ON Cultural Resources

For reporting misapplication of aerially applied fire retardant only

1. Incident #: \_\_\_\_\_ 2. Incident name: \_\_\_\_\_ 3. Agency: \_\_\_\_\_ 4. Area/Region: \_\_\_\_\_
5. Unit/Forest: \_\_\_\_\_ 6. Subunit/Ranger District: \_\_\_\_\_
7. Misapp location (lat/long) (decimal format) \_\_\_\_\_  
(recommended use generalized lat/long example 36.000 -118.000)
8. Field assessment date: \_\_\_\_\_ 9. Time: \_\_\_\_\_ 10. Person reporting: \_\_\_\_\_
11. Species, critical habitat, or cultural resource/sacred site in avoidance area: **cultural resource**
12. Amount of area affected: \_\_\_\_\_ (acres) \_\_\_\_\_ (% of avoidance area)
13. Avoidance area where retardant was misapplied  Edge  Partial  Center
14. Vegetation Type: \_\_\_\_\_ 15. Is retardant visible on veg?  Yes  No
16. Was vegetation burned?  Yes  No 17. Burn severity?  Low  Medium  High
18. Canopy remaining %: \_\_\_\_\_ 19. Ground Cover remaining %: \_\_\_\_\_
20. Soil Type: \_\_\_\_\_
21. Non native invasive species present?  Yes  No
22. If no to non native, are NNIS close?  100'  101-1000'  1000+
23. NNIS species names: \_\_\_\_\_
24. NNIS treated?  Yes  No
25. NNIS method: \_\_\_\_\_
26. Weather events post retardant application: \_\_\_\_\_
27. Adverse impact?  Yes  No \_\_\_\_\_
- 28-37 Deal with Species and are not applicable to Cultural Resources
38. Misapplication trigger a restriction of future retardant?  Yes  No
39. Who/how additional avoidance areas are identified (GIS/Fire Staff/IC updates): \_\_\_\_\_
40. - 44 Deal with FWS consultation and are not applicable to Cultural Resources
45. State or other agency notification \_(SHPO will be notified as part of the Fires emergency consultation) \_\_\_\_\_
46. Additional information \_\_\_\_\_