



# **FIRE WEATHER ANNUAL OPERATING PLAN**

**FOR**

**MUCH OF VERMONT & NORTHERN NEW YORK**

**NATIONAL WEATHER SERVICE  
BURLINGTON, VT**

**2026**

(Updated 3/23/2026)

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# Introduction

This document serves as the Interagency Fire Weather Annual Operating Plan (AOP) for much of Vermont and northern New York. The AOP provides specific procedural and policy information regarding the delivery of meteorological services to the fire management community as allowed under the umbrella of the National Interagency Agreement for Meteorological Services found at:

[https://www.weather.gov/media/fire/2025\\_National\\_AOP\\_V2\\_signed\\_swb\\_sp.pdf](https://www.weather.gov/media/fire/2025_National_AOP_V2_signed_swb_sp.pdf)

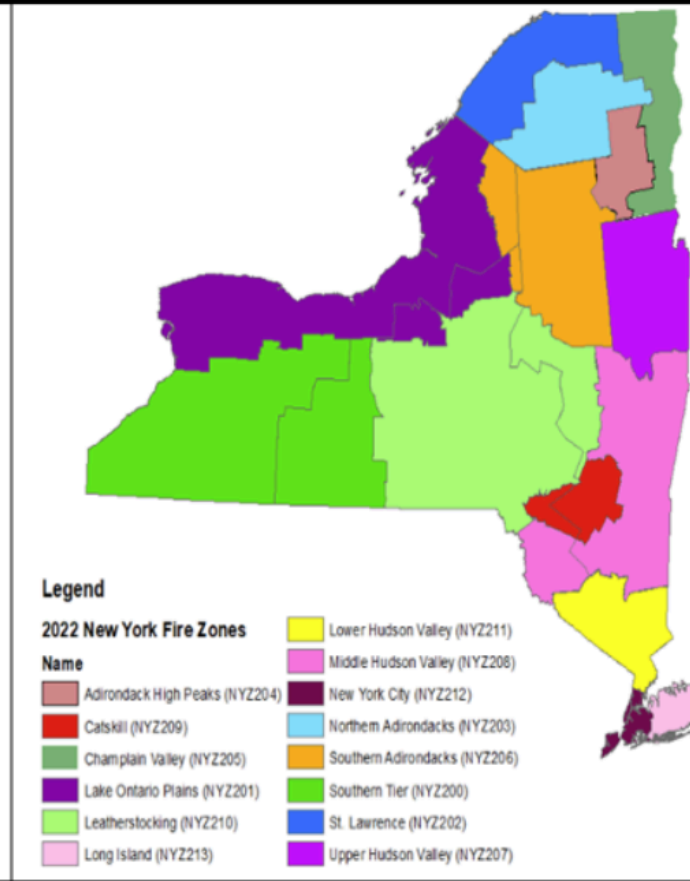
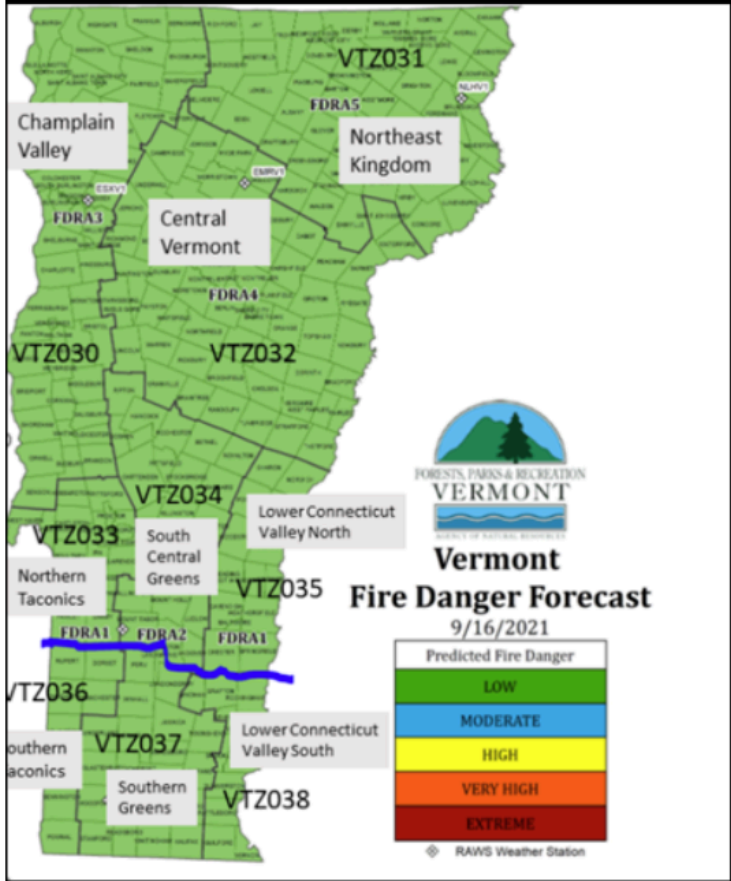
Format and content of this AOP is set forth by [NWS directives 10-404](#).

## NWS Burlington Fire Weather Program

The NWS Burlington Fire Weather Program provides forecast and warning services in support of fire management and control operations, leading to the effective prevention, suppression, and management of forest and rangeland fires. The major objective of the fire weather program is to provide a service which will meet the meteorological requirements of federal and state wildland management agencies in the protection and enhancement of the nation's forests and rangelands.

The National Weather Service in Burlington agrees to furnish routine forecasts, warnings, and services according to the needs of the fire weather community throughout the entire year. However, the typical fire weather season for much of Vermont and northern New York starts in late-March and continues through mid/late November.

The coverage area for the NWS Burlington fire weather program in Vermont encompasses the following fire weather zones in Vermont: Champlain Valley, Northern Taconics, South Central Greens, Lower Connecticut Valley North, Central Vermont, and Northeast Kingdom. And in New York it covers the counties Clinton, Essex, Franklin, and Saint Lawrence.



## **Fire Weather Program Goals**

The NWS Burlington Fire Weather Focal Point will continually set goals to expand and enhance the fire weather program and its service to meet the needs of the fire management community.

### **2026 Program Goals**

- Hold an annual fire weather users meeting and AOP review each year near the beginning of the fire season to strengthen partner relationships, address local concerns, review current policy, and provide a weather outlook for the upcoming fire season.
- Maintain NWS Burlington Fire Weather website for users to utilize during the season.
- Assist with any prescribed burns by providing onsite weather information and briefings as well as bringing staff members to the burn for educational purposes.
- Act as state liaison in Vermont with respect to coordination of Fire Weather Watches, Red Flag Warnings, fuel conditions, and weather events that may have an impact on fire weather.
- Provide materials to the media/social media outlets related to the Open Burning Weather Awareness Campaign during peak fire season (early/mid April).
- Monitor forecast and warning products to ensure they are representative and meet user needs.
- Continue support for the fire weather zones and specialized SPOT forecasts for our fire weather partners.

Provide fire weather partners with training and outlook information for help in their decision making process.

## **Organizational Directory**

### **Federal Partners**

National Interagency Fire Center  
3833 S. Development Ave  
Boise, ID 83705-5354

Eastern Area Coordination Center  
Manager (NPS)  
EACC Center Manager - Jennifer Parrish  
Work Cell (414)-391-6090

Deputy Center Manager - Amanda Hamman  
Email: wieacc@firenet.gov  
EACC Phone: (844)-237-3508  
626 E. Wisconsin Ave., Suite 500  
Milwaukee, WI 53202

Green Mountain and Finger Lakes National  
Forests Supervisor's Office  
231 North Main Street  
Rutland, VT 05701

### **State Partners**

Vermont Department of Forests, Parks and Recreation  
1 National Life Drive, Davis 2  
Montpelier, VT 05620-3801

Vermont Emergency Management  
45 State Drive  
Waterbury, VT 05671

NYS DEC Region 5 (Franklin, Clinton, Essex Counties)  
Forest Ranger Captain  
P.O. Box 296  
1115 State Route 86  
Ray Brook, NY 12977-0296

NYS DEC Region 6 (Saint Lawrence County)  
Forest Ranger Captain  
317 Washington Street  
Watertown, NY 13601

Clinton County Emergency Services  
Emergency Manager  
16 Emergency Services Drive  
Plattsburgh, NY 12903  
Essex County Emergency Services  
Emergency Manager  
7551 Court Street  
Elizabethtown, NY 12932

Franklin County Emergency Services  
Emergency Manager  
55 Bare Hill Road  
Malone, NY 12953

Saint Lawrence County Emergency Services  
Emergency Manager  
48 Court Street  
Canton, NY 13617

**National Weather Service  
(Offices with responsibility in and adjacent to our area)**

Weather Forecast Office (WFO) Burlington,  
VT VT State Liaison Office  
Fire Weather Focal Point  
Burlington International Airport  
1200 Airport Drive  
South Burlington, VT 05403  
802-862-2475

Weather Forecast Office (WFO) Albany, NY  
NY State Liaison Office  
Fire Weather Focal Point  
251 Fuller Road, B300  
Albany, NY 12203-3640  
518-626-7568

Weather Forecast Office (WFO) Buffalo, NY  
Fire Weather Focal Point  
587 Aero Drive  
Buffalo, NY 14225  
716-565-0204

Weather Forecast Office (WFO) Gray, Maine  
Fire Weather Focal Point  
1 Weather Lane  
Gray, ME 04039  
207-688-3216

**NWS Eastern Regional Headquarters**

Regional Fire Weather Coordinator  
Airport Corporate Center  
630 Johnson Ave.  
Bohemia, NY 11716

## **NWS National Fire Weather Program**

National Fire Weather Operations Coordinator  
3833 South Development Ave., Bldg. 3807  
Boise, ID 83705

# **Services Provided by the NWS**

## **Basic Services**

### **Digital Forecasts and Services**

The following links connect users to local and national fire weather webpages as well as alternative forecast products which can be used for planning purposes beyond the range of the Fire Weather Planning Forecast. A 24/7 chat link is also included.

- NWS Burlington Fire Weather webpage - <https://www.weather.gov/btv/firewx>
- NWS National Fire Weather webpage - <https://www.weather.gov/fire/>
- National Digital Forecast Database (NDFD) fire weather graphical forecast  
<https://graphical.weather.gov/sectors/btvFireDay.php#tabs>
- Hourly Weather Graphs:  
<https://forecast.weather.gov/gridpoint.php?site=btv&TypeDefault=graphical>
- Weather Activity Planner:  
<https://forecast.weather.gov/wxplanner.php?site=btv>
- Prototype Fire Weather Matrix - [https://www.weather.gov/btv/FWX\\_Matrix](https://www.weather.gov/btv/FWX_Matrix)
- Point Forecast Matrix:  
<https://forecast.weather.gov/product.php?site=BTV&product=PFM&issuedby=BTV>
- NWS Slack – Chat with NWS Burlington staff 24/7 at NWS [Slack](#)

## Fire Weather Planning Forecast (FWF)

The Fire Weather Planning Forecast is a zone-type product used primarily for input in decision-making related to pre-suppression and other planning. Weather parameters represent average conditions across each of our 5 fire weather zone groupings covering the next 36 hours. A more general extended forecast out to 7 days is included near the bottom and finally an 8-14 day temperature and precipitation outlook for the region follows at the bottom. The forecast is issued **twice daily no later than 6:00 am every morning and 3 PM every afternoon** during the fire weather season. Once the fire weather season has ended the FWF is not issued but graphical fire weather data will still be available on our office fire weather web page.

The NWS Burlington Fire Weather Planning Forecast can be found here:

<https://forecast.weather.gov/product.php?site=btv&product=FWF&issuedby=BT>  
V

## Red Flag Program

NWS Burlington will monitor forecast trends for critical weather conditions that support extreme fire behavior and coordinate with fire weather partners in determining status of the fuels for issuance of Fire Weather Watches and Red Flag Warnings. The purpose of the Red Flag Program is to alert land management agencies of developing weather conditions that, when coupled with critically dry wildland fuels, could lead to potentially dangerous fire situations. Coordination will be made between NWS Burlington and our fire weather partners before issuance of a Fire Weather Watch or Red Flag Warning.

## Fire Weather Watch (RFW)

A Fire Weather Watch is issued to indicate the potential for dangerous fire weather conditions. Usually fire danger is in the very high to extreme category. A watch will be issued 12 to 48 hours before the onset of the critical weather conditions. The overall intent of a Fire Weather Watch is to alert users at least a day in advance for purposes of resource allocation and firefighter safety.

Current Fire Weather Watches can be found here:

<https://forecast.weather.gov/product.php?site=btv&product=RFW&issuedby=BT>

## V Red Flag Warning (RFW)

If red flag conditions are expected to be met and coordination with partner agencies indicates the state of the fuels is susceptible to burning, a Red Flag Warning is issued. The warning indicates a high likelihood of severe fire weather conditions with a relatively high probability of occurrence. Usually the fire danger is in the very high to extreme category. A Red Flag Warning will normally be issued for potential severe fire weather events within 24 hours of the expected event. A Red Flag Warning may or may not be preceded by a Fire Weather Watch.

Current Red Flag Warnings can be found here:

<https://forecast.weather.gov/product.php?site=btv&product=RFW&issuedby=BTV>

### Red Flag Criteria

NWS Burlington will use the following sets of criteria to determine when a Fire Weather Watch or Red Flag Warning will be issued for particular fire zones. There are two different criteria based primarily upon season. All factors within each vegetative stage must be met in order to have a Red Flag Event.

<b>Red Flag Criteria</b>	<b>Vegetation Stage I or II cured/transition - Spring/Fall</b>	<b>Vegetation Stage III green - Summer</b>
Relative Humidity	Less than 30% for at least 2 hours	Less than 30% for at least 2 hours
Rainfall	N/A	Less than 1/4 inch in previous 8 days
Wind	Sustained or frequent gusts above 25 mph for at least 2 hours	Sustained or frequent gusts above 25 mph for at least 2 hours
Fuel	Partner confirmation of dry/receptive fuels	<a href="#">Keetch-Byram Drought Index</a> above 300 Partner confirmation of dry/receptive fuels
Temperature	N/A	N/A

<http://www.wfas.net/images/firedanger/kbdi.png> for Keetch-Byram Drought Index (KBDI)

It is the user's responsibility to inform the NWS of the current stage (I, II or III) and when measured KBDI is approaching 300, over 300, and falls back below 300. With no input from the users on these parameters, the NWS will assume climatological timing for various stages.

Stage I cured – 75% or more dead

Stage II transition – 25% to 75% dead

Stage III green – less than 25% dead

As part of the warning decision making process, forecasters are encouraged to consider atmospheric stability parameters, temperature anomalies, mixing heights, and even cloud cover when determining the issuance of a Fire Weather Watch or Red Flag Warning – especially under low-end critical conditions and in the absence of critical fire weather patterns. In addition, the needs of partner agencies must also be factored in.

## **Warning Verification**

After a Red Flag Event, warnings will be verified on a county-by-county basis. Local weather observing networks will be checked to determine if wind speeds and relative humidity values reached critical levels outlined in the following Red Flag Criteria section. Verification statistics will be calculated for Probability of Detection, False Alarm Rate, Critical Success Index and Lead Time for each Red Flag Event and forwarded to NWS National and Regional Headquarters at the end of each year.

## **Special Weather Statement**

It is office policy, based on conversations with various users, to refrain from issuing statements for “High or Extreme Fire Danger” conditions. The Fire Danger is calculated and posted each day at many or most state and national parks. Their determination is based on their local measurements, leaning heavily toward fuel moistures, which is information for which the National Weather Service is not responsible.

Media inquiries concerning the specific fire danger should be directed to the office of New York State (NYS) Department of Environmental Conservation or the NYS State Forest Ranger District Offices. In Vermont the contact would be the Vermont Department of Forests, Parks, and Recreation. However, on rare occasions during extreme events, users of the Fire Weather products may request that we “help get the word out” about the fire danger. In these rare cases, or in situations when weather conditions may be approaching red flag criteria and fuels are critically dry, the Lead Forecaster may decide to issue a Special Weather Statement (ALBSPSBTV). This statement would incorporate the information provided by the fire weather community.

The most recent Special Weather Statement can be found here:

<https://forecast.weather.gov/product.php?site=btv&product=SPS&issuedby=BTV>

## **Fire Weather Area Forecast Discussion**

The Area Forecast Discussion (AFD) focuses on the most significant weather issues affecting an NWS office’s forecast area over the next seven days. During heightened fire activity, a fire weather section (.FIRE WEATHER...) may be included in the AFD containing weather information of interest to fire managers.

The most recent Area Forecast Discussion can be found here:

<https://forecast.weather.gov/product.php?site=btv&product=AFD&issuedby=BTV>

# Site-Specific Weather Forecasts

## NFDRS Point Forecasts (FWM)

The National Fire Danger Rating System (NFDRS) is used to calculate a variety of parameters for the fire community (fire danger rating the most notable). The NWS' role in NFDRS is forecasting weather parameters for input into the Weather Information Management System (WIMS), which is used to predict the next day's fire danger rating and other elements. NWS Burlington issues this forecast twice daily once in the morning and again in the afternoon during the fire season (March 20th thru November 30th) for the following Remote Automatic Weather Stations (RAWS) sites in our area:

[Click here](#) for the 11 additional sites from the NY Mesonet that were added in Fall of 2024.

430501 (ESXV1) - Essex Junction, VT (Chittenden County)  
Elevation: 340 ft. 44.5078 N 73.1156 W  
Owner: State of Vermont

431301 (DBYV1) - Sweezy (Mt. Tabor) (Danby), VT (Rutland County)  
Elevation: 668 ft. 43.33 N 73.16 W  
Owner: Green Mountain National Forest

430601 (EMRV1) - Lake Elmore, VT (Lamoille County)  
Elevation: 1200 ft. 44.53 N 72.51 W  
Owner: Green Mountain National Forest/VT Department of Forests, Parks, and Recreation

430402 (NLHV1) - Nulhegan (near Island Pond), VT (Essex County)  
Elevation: 1243 ft. 44.79 N 71.7 W  
Owner: U.S. Fish and Wildlife

~~300311 (SRON6) - Schroon Lake, NY (Essex County)  
Elevation: 820 ft. 43.8 N 73.77 W  
Owner: New York State Forest Rangers~~

~~300191 (SFAN6) - Schuyler Falls, NY (Clinton County)  
Elevation: 650 ft. 44.6 N 73.6 W  
Owner: New York State Forest Rangers~~

~~300892 (BFAN6) - Brasher Falls, NY (St Lawrence County)  
Elevation: 300 ft. 44.8 N 74.8 W  
Owner: New York State Forest Rangers~~

~~300891 (WNKN6) - Wanakena, NY (St Lawrence County)  
Elevation: 1500 ft. 44.1667 N 74.9 W  
Owner: New York State Forest Rangers~~

~~300312 (MVAN6) - Mt VanHoevenberg, NY (Essex County)  
Elevation: 2000 ft. 44.22 N 73.89 W  
Owner: New York State Forest Rangers~~

The NFDRS (FWM) Forecast can be found at the following link. Information on how to decode the FWM is included in the NWS Burlington Product & Service Guide.

<https://forecast.weather.gov/product.php?site=btv&product=FWM&issuedby=BTV>

## Spot Forecast (FWS)

Site-specific (spot) forecasts are localized near-term forecasts issued by the NWS in support of wildfire and natural resource management. These forecasts aid the land management and fire control agencies in protecting life and property during wildland fires, hazardous fuels reduction and rehabilitation and restoration of natural resources. Spot forecasts are also issued for hazardous materials incidents, marine incidents, search and rescue response and other threats to public safety. Spot forecasts are available anytime of the day, week or season and are considered one-time requests which are not routinely updated.

NWS Burlington will provide spot forecasts upon request of any federal, state, tribal or local public safety official who represents the spot forecast and is required to support a wildland fire or fire management activities, essential to public safety or in support of Homeland Security Presidential Directive #5 (HSPD 5).

Requests for or retrieval of completed Spot Forecasts should be made through the NWS National Spot Forecast Request web page <https://www.weather.gov/spot/> Further details on how to complete a spot request can be found [here](#).

The most recent Spot Forecast can be found here:

<https://forecast.weather.gov/product.php?site=btv&product=FWS&issuedby=BTV>

## Special Services

### HYSPLIT Trajectories

The HYSPLIT (Hybrid Single-Particle Lagrangian Integrated Trajectory) model is a model which determines trajectories for particles at a given height above ground level. The HYSPLIT trajectories can be used for many purposes including but not limited to HAZMAT and smoke dispersion. These are available to be sent along with the spot forecast if desired. More details and an example can be found in the NWS Burlington Fire Weather Product & Service Guide. To utilize this feature, simply check **Yes** in the NOAA Hysplit Model Box of the spot forecast request form. An automated trajectory model run will then be emailed to the included email address or addresses on the request web page.

## **Incident Meteorologist Request**

The NWS maintains a cadre of trained Incident Meteorologists (IMETs) per NWS Instruction 10-402 (<https://www.nws.noaa.gov/directives/sym/pd01004002curr.pdf>). IMETs are available for on-site or off-site decision support services for wildfires or other events that threaten life or property. All requests for IMET support from federal, state, tribal or local government emergency response agencies will be requested through the NWS National Fire Weather Operations Coordinator (NFWOC).

## **Decision Support Services**

For non-wildfires such as local prescribed burns across northern New York or much of Vermont, requests for on-site or off-site forecasting service can be made to the NWS Burlington office. The fire weather focal point or another assigned staff member if available and approved by management would then provide the requested service.

# **Wildland Fire Agency Responsibilities**

## **Regional Support and Predictive Services**

Interagency fire meteorologists at the Eastern Area Coordination Center (EACC) combine forecast information from NWS and other sources into area-wide summaries and briefings. These meteorologists work in conjunction with Fire Intelligence to form the Predictive Services Group, which produces integrated fire weather/fire danger assessments for the entire NIFC Eastern Area.

The intent of Predictive Services is to provide strategic, regional and sub-regional information to assist in the preparedness, movement and allocation of firefighting resources. EACC Predictive Services is the provider of fire danger and potential forecasts within the Eastern Area beyond the next day NFDRS forecasts provided by the NWS.

Predictive Services Outlooks:

[https://gacc.nifc.gov/eacc/predictive\\_services/outlooks/outlooks.htm](https://gacc.nifc.gov/eacc/predictive_services/outlooks/outlooks.htm)

- Area-Wide Fire Weather Outlook Maps for Day 1 and 2
- 7-Day Significant Fire Potential Outlook
- Weekly Outlook
- Monthly and seasonal fire potential outlooks
- [Significant Fire Wildfire Potential Outlook](#)

### **New York State Support**

New York State DEC Predictive Services issues a statewide Fire Danger Rating Area Risk Forecast covering Day 2. This forecast can be found here:

<https://www.dec.ny.gov/lands/68329.html>

### **Vermont State Support**

The Vermont Department of Forests, Parks and Recreation issues a statewide Fire Danger Rating Area Risk Forecast covering Day 2. This forecast can be found here:

<https://fpr.vermont.gov/forest/wildland-fire/monitoring-fire-danger>

### **Program Management**

The natural resource agencies will oversee the fire weather observation program including Remote Automatic Weather Stations (RAWS) and NFDRS, including the siting and maintenance of the observing equipment, fire weather training of their personnel, and the proficiency of their personnel in the use of the NWS Spot software.

### **Monitoring, Feedback and Improvement**

Natural resource agencies will monitor the quality and timeliness of NWS fire weather products, and provide feedback to the NWS in order to improve services to the agencies. Feedback on spot forecasts is required to validate forecasts and improve accuracy and should ideally be submitted within a day or two of the burn or incident. The type of feedback preferred is the character of temperature, humidity and wind affecting the burn or incident and the overall accuracy of the spot weather forecast.

### **Agency Computer Resources**

The Internet will be the primary method of obtaining the Fire Weather Forecast, Red Flag Warning, Fire Weather Watch, and for both requesting and receiving a Spot Forecast. As a backup method, a request can be made to the NWS for a product to be faxed to the customer agency. NFDRS observations will be entered into WIMS, and forecasts and calculations based on these observations will be received by WIMS, or by internet via a WIMS website.

### **Fire Weather Observations**

NFDRS observation stations provide the specialized weather observations for fire weather forecasts, wildfire control and suppression, and various other land management operations. Stations may either be manned sites operated by land management agencies, or unmanned RAWS maintained by any of the federal or state land management agencies in the area.

# Joint Responsibilities

Joint responsibilities include the following:

## **Training**

The responsibility of training natural resource agency employees will be that of the agencies themselves. However, the NWS will be available to assist when requested to do so.

**Meetings between the NWS offices and the natural resource agencies** At least one statewide meeting or coordination call is normally attempted each year with surrounding NWS offices. NWS Burlington will also conduct a local users meeting each year.

## **Maintenance and Revision of the Annual Operating Plan**

The AOP should be revised each year by the end of March, with cooperation and participation from NWS Burlington and each natural resource agency. Changes discussed in the local users meeting will then be implemented into a revised AOP.

## **Workplace Visits**

Natural resource agencies and the NWS should collaborate on familiarization of personnel in each other's fields of expertise, operations and equipment. Visits to offices and work centers, as well field job sites can meet part of these requirements.

## **Service Evaluation**

Services provided by the NWS, and delivery of observations and information from the natural resource agencies to the NWS in support of these services, shall be under constant evaluation by both parties.

## **Incident Response**

The NWS is the provider of Incident Meteorologists (IMETs). Costs incurred by NWS in providing IMET support will be borne by the requesting agency. The user agency is responsible for providing adequate shelter to allow the equipment and IMET to function efficiently. This would include a location free of excessive dust, heat and moisture with protection from wind and other elements.

## **Effective Dates of the AOP**

The effective dates of this Annual Operating Plan will be from January 1 through December 31 of the current calendar year. This plan will be subject to review and revision by all signatory parties each year, or more frequently as operations warrant.

This plan will be available on the NWS Burlington fire weather webpage. A copy of this plan will also be sent to NWS Eastern Region Headquarters by January 31 of the current year. Eastern Region Headquarters will forward a copy of the plan to NIFC and NWS Headquarters.

# **Signature Page**

Signed \_\_\_\_\_  
Brooke Taber  
Fire Weather Focal Point  
NWS Burlington

Signed \_\_\_\_\_  
Gabriel Langbauer  
Meteorologist-in-Charge  
NWS Burlington

