

Moving from Science to Operations

Wildfire Intelligence and Predictive Services (WIPS)

Information current as of April 1, 2026

Natural Resources Canada believes that accurate, up to date, user-friendly wildfire intelligence is critically important for public safety and effective wildfire management. The **Wildfire Intelligence and Predictive Services (WIPS)** unit of the Canadian Forest Service supports fire management agencies, fire researchers, other government departments, non-governmental organizations (NGOs) or other collaborative groups, the media and the public. Benefits of its support include improved timeliness, availability and usage of fire intelligence tools, products and information during the fire season.

Objectives for wildfire applications



Understand what information agencies need and how to deliver it consistently and on time.



Increase availability, usage and certainty in fire growth modelling systems.



Translate research into tools that support real-time wildfire management decisions.



Raise awareness of the predictive services WIPS can offer stakeholders.

WIPS is your wildfire information partner

When Canadian wildfire managers need additional support to inform decisions, the WIPS team is prepared to deliver. Through forecasting, visualization and reporting, they can provide the information needed including weather, hazard reporting and fire intelligence. Bridging research and operations, WIPS will work with wildfire practitioners to develop practical tools from wildfire science. Contact WIPS at wips-srpif@nrcan-rncan.gc.ca to learn more.



This summary is part of a six-part series introducing WIPS, its suite of data products and three key tools.

Core Services



Research and
Development



Fire Information



Support



Fire Weather



Research and Development

- Operationalize wildfire science into new tools and applications that can be used by fire managers
- Provide ongoing development, guidance and support to the team and collaborators for fire models and applications
- Make research and development of new tools and prototypes available within the Canadian Wildland Fire Information Framework (CWFIF)¹



Fire Information

- Work closely with the Canadian Wildland Fire Information System (CWFIS) and Framework (CWFIF) to plan products and services²
- Respond to data requests and media inquiries about wildfire
- Provide weekly national situation reporting about wildfires in Canada



Support

- Provide direct wildfire support to other government departments and provincial and territorial fire management agencies
- Provide targeted wildfire briefings
- Develop training and exchange knowledge on wildfire intelligence tools like the FireSTARR and Prometheus models



Fire Weather

- Prepare weekly and seasonal fire weather forecasts at a national scale
- Assist other government departments, the Canadian Interagency Forest Fire Centre, and other fire research organizations (including international groups)
- Develop and maintain weather data processing that supports the Canadian Wildland Fire Information System and the Canadian Wildland Fire Information Framework
- New product development

¹ The [CWFIF](#) is a national platform designed to improve interoperability of fire management data, tools and more within Canada.

² The CWFIS provides a public-facing portal into the data managed in the CWFIF. Visit the CWFIS [website](#) to learn more.