1.0 Forecast tab

The Forecast tab provides a tabular display of hourly weather conditions imported from file or entered manually by the user. Fire Weather Index (FWI) System, Fire Behaviour Prediction (FBP) System, and Solar values are automatically calculated for each date and time in the table based on the specified ignition location.

- Use the Columns option in the lower-left corner to customize what values are displayed in the table.
- Use the FWI option in the lower-left corner to change starting code values and the HFFMC calculation method.
- Use the FBP option in the lower-left corner to change the fuel type and parameters used for primary and secondary FBP System calculations.
- Three Display buttons in the upper-left corner are used to view the forecast in hourly, diurnal (min/max), and daily (noon standard) formats.
- Buttons along the bottom of this tab allow the user to edit weather values and export the table in a variety of formats.

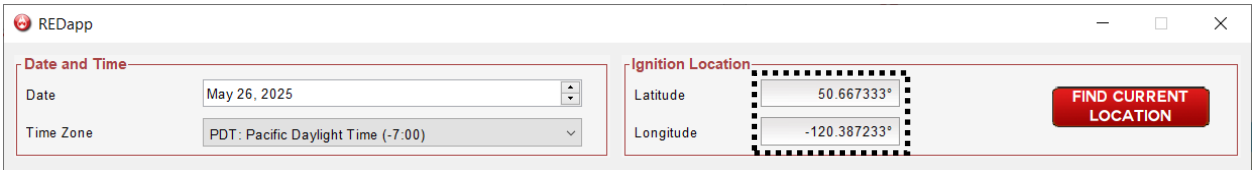
Example 1.1. Import weather file from SpotWx.com

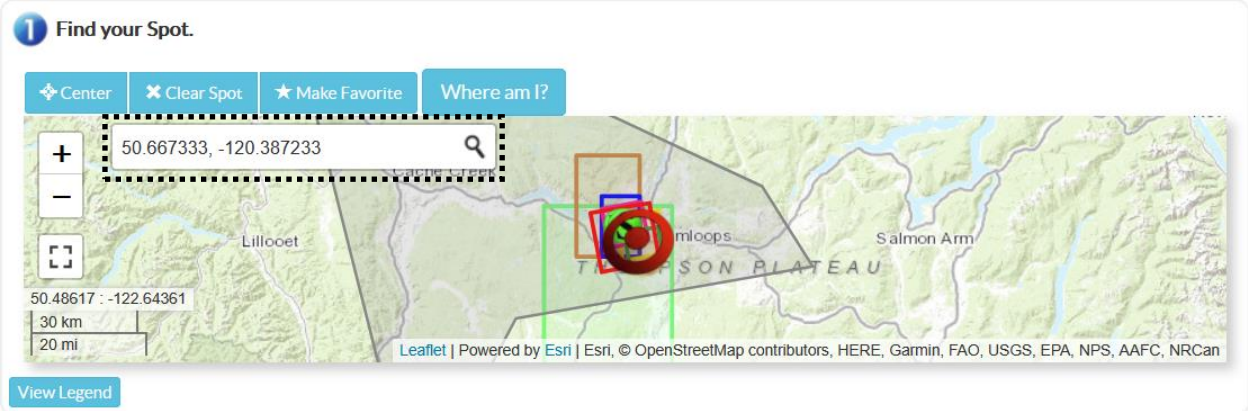
The standard header names for an hourly weather file are provided in the following table. The first column must be "hourly". The order of the remaining columns is not important. Header names can be provided in upper or lower case. The SpotWx.com web application provides an option to download numerical weather forecasts in this format.

Header Name	Data Type	Description
hourly	character	Date in d/m/Y format
hour	integer	Hour of the day (0 to 23)
temp	numeric	Temperature (°C)
rh	numeric	Relative humidity (0 to 100 %)
precip	numeric	Precipitation accumulated over the past hour (≥ 0 mm)
ws	numeric	Wind speed (≥ 0 km/h)
wd	numeric	Wind direction (0 to 360 compass degrees)

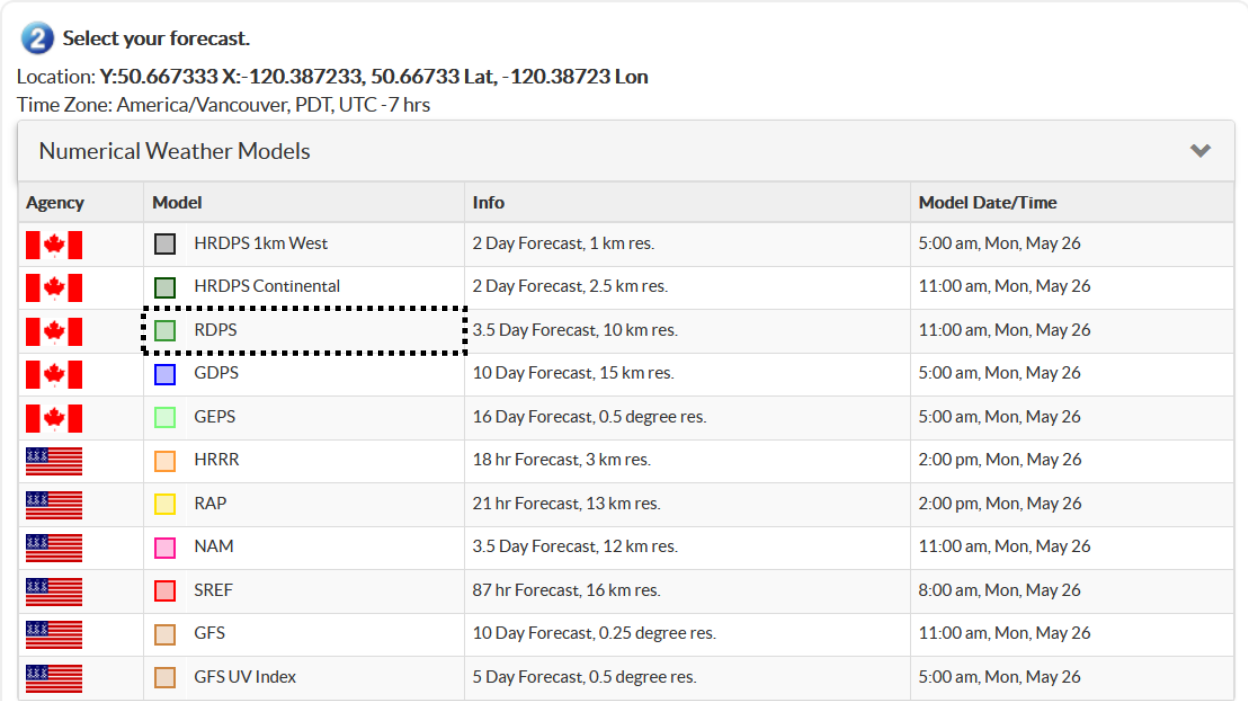
This example demonstrates how to import an hourly weather forecast file downloaded from SpotWx.com.

1. Open a web browser to SpotWx.com and copy the Ignition Location coordinates from REDapp into the "Find your Spot" search field and press **Enter**.





2. Select your forecast from one of the Numerical Weather Models listed in SpotWx.com. For this example, the 3.5 day from the Canadian Regional Deterministic Prediction Model (RDPS) was selected.



Select your forecast.

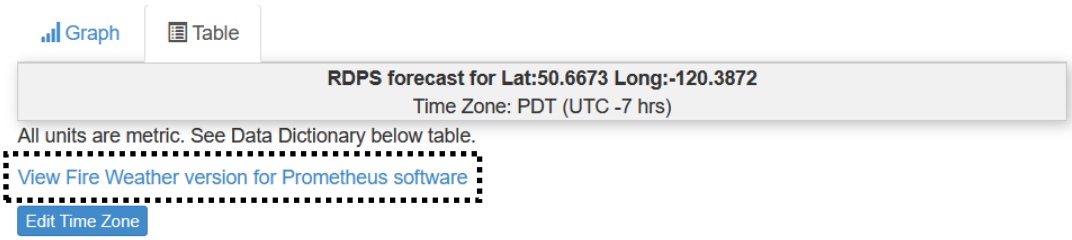
Location: **Y:50.667333 X:-120.387233, 50.66733 Lat, -120.38723 Lon**
Time Zone: America/Vancouver, PDT, UTC -7 hrs

Numerical Weather Models

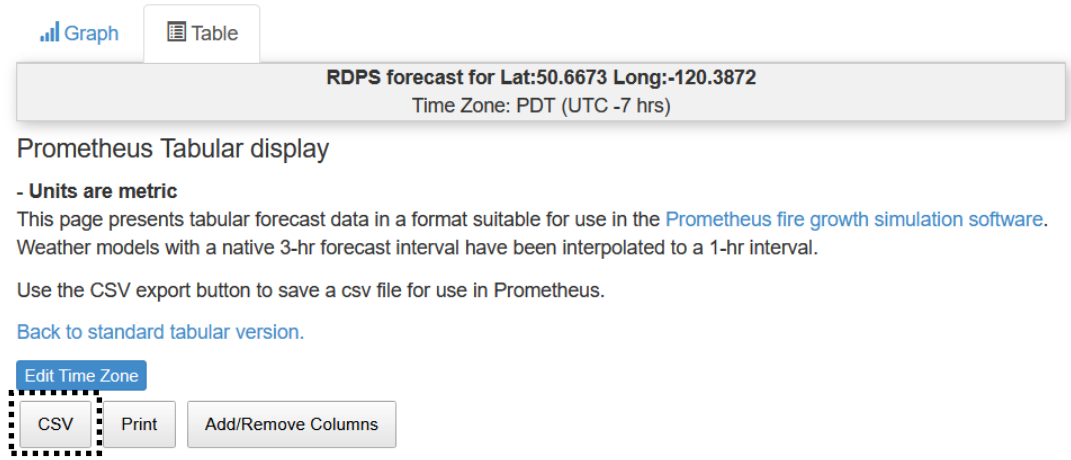
Agency	Model	Info	Model Date/Time
	HRDPS 1km West	2 Day Forecast, 1 km res.	5:00 am, Mon, May 26
	HRDPS Continental	2 Day Forecast, 2.5 km res.	11:00 am, Mon, May 26
	RDPS	3.5 Day Forecast, 10 km res.	11:00 am, Mon, May 26
	GDPS	10 Day Forecast, 15 km res.	5:00 am, Mon, May 26
	GEPS	16 Day Forecast, 0.5 degree res.	5:00 am, Mon, May 26
	HRRR	18 hr Forecast, 3 km res.	2:00 pm, Mon, May 26
	RAP	21 hr Forecast, 13 km res.	2:00 pm, Mon, May 26
	NAM	3.5 Day Forecast, 12 km res.	11:00 am, Mon, May 26
	SREF	87 hr Forecast, 16 km res.	8:00 am, Mon, May 26
	GFS	10 Day Forecast, 0.25 degree res.	11:00 am, Mon, May 26
	GFS UV Index	5 Day Forecast, 0.5 degree res.	5:00 am, Mon, May 26

3. Select **Open Tabular version** in the upper-left corner of the next SpotWx.com page.

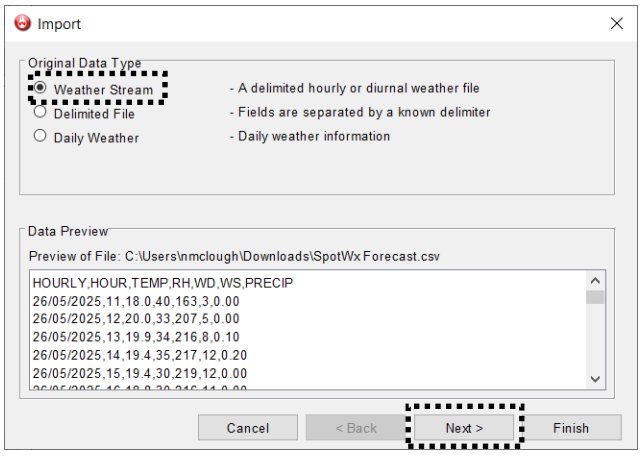
4. Select **View Fire Weather version for Prometheus software** in the upper-left corner of the next SpotWx.com page.



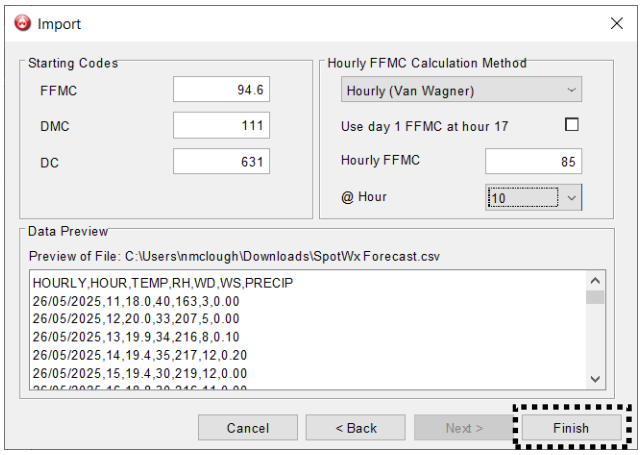
5. Click the **CSV** button in the upper-left corner of the next SpotWx.com page. A file named "SpotWx Forecast.csv" will be saved to the Downloads folder on your computer.



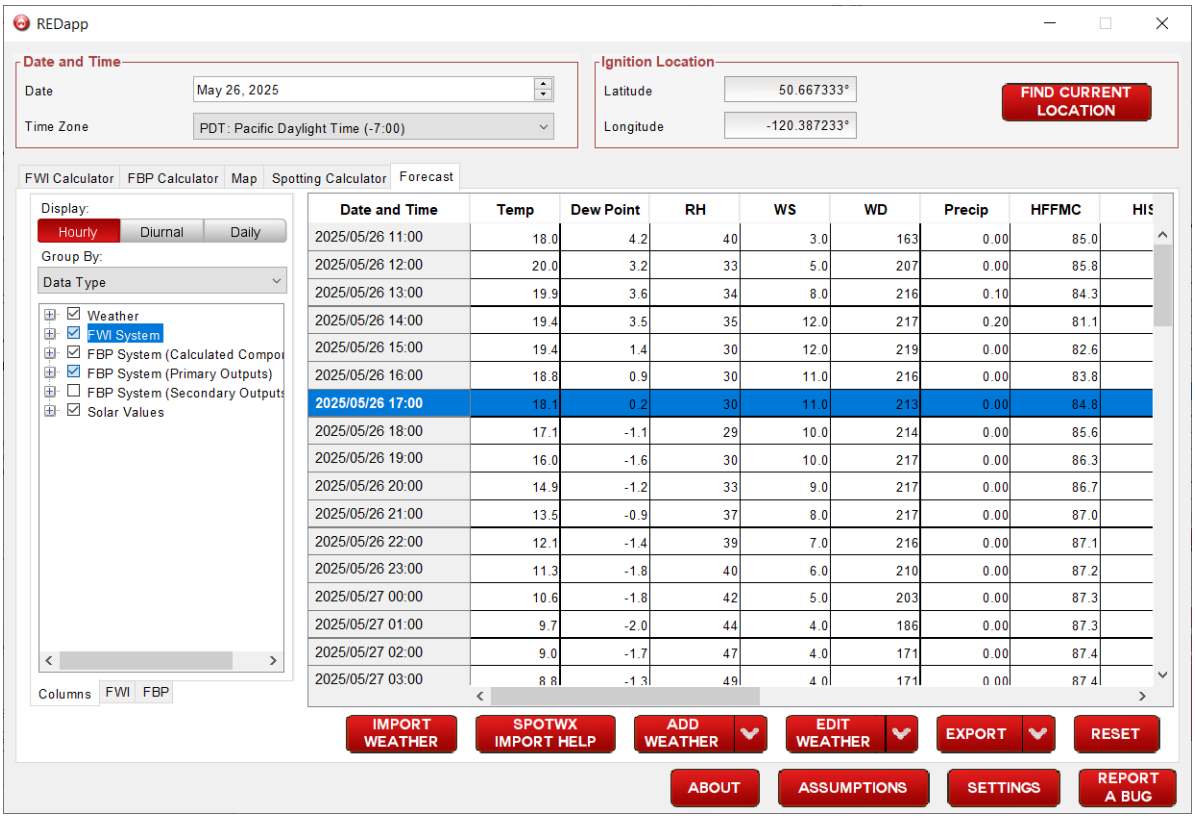
6. In REDapp, select the Import Weather button from the bottom of the Forecast tab. Navigate to the CSV file downloaded from SpotWx.com and click **Open**. An Import window will appear with a data preview. Select the **Weather Stream** data type option and click **Next.**



7. Enter FWI System starting code values and select a method for calculating Hourly Fine Fuel Moisture Code (HFFMC). You can also skip this step by accepting the default values and adjust starting code values and HFFMC method later using the FWI option in the lower-left corner of the Forecast tab. Click **Finish**.



8. The weather forecast can now be viewed as a table in the REDapp Forecast tab.



Tip: *Right-click a highlighted row in the Statistics table to transfer weather and FWI System values to the FBP Calculator or display an elliptical projection on the Map.*