

For Smoke Management Purposes, I Want to...

Review my State Smoke Management Plan

MI SMP, Draft 04/23/2012 MN SMP, Updated 12/03/2007 WI SMP, Draft 03/22/2007

Estimate Fuel Loads



Digital Photo Series provides detailed fuel loading information for natural fuelbeds throughout the United States. This information was used for FCCS fuelbeds.



Fuel Characteristics Classification System (FCCS) provides a set of pre-defined fuelbeds and allows creation of custom beds from which fuel load and fire behavior is modeled.

Evaluate Fuel Consumption/Smoke Emissions/Fire Effects

These tools work alone or in combination to evaluate site fuel & vegetation, fuel moisture and winds; producing estimates of fire behavior, fuel consumption, smoke emissions, and other fire effects.



First Order Fire Effects Model (FOFEM) accepts vegetative cover, fuel loading, and fuel moistures to produce modeled fuel consumption, smoke emission, & soil heating.



Canadian Fire Effects Model (CanFIRE) calls for inputs that characterize the site to model outputs that include Fuel Consumption, Smoke Emissions, Fire Behavior and an **Ecological Summary**



Consume uses FCCS fuelbeds to model fuel consumption and smoke emissions by combustion phase.

Obtain Current Fire Weather & Smoke Dispersion Info



http://weather.gov/fire offers local fire weather products when user provides a specific location, such as forecasted Ventilation Index, Mixing Height and

Transport Winds. Left sidebar menu includes upper air soundings under current conditions and smoke tools under air quality

Determine Current and Forecast Fuel Moisture Conditions



Great Lakes Fire and Fuels provides historic, current, and forecast fuel moistures using CFFDRS FWI codes.



Canadian Wildland Fire Information-FWI provides maps depicting historic, current and forecasted FWI conditions across Canada



NFDRS reported fuel moistures for specific locations as well as forecasted estimates using points & national gridded forecasts.

Determine How Far Downwind Air Quality is Impacted



In flat and rolling terrain, the Simple Smoke Screening Tool - a simple graphical tool with a few basic inputs and VSmoke a more detailed model - depict modeled

smoke trajectory and concentration with an input wind.

Determine Smoke Plume Trajectory (forward/backward)



Fire Information and Smoke Trajectories uses the HYSPLIT model and National Weather Service weather forecasts to produce smoke trajectories from fire sites.

Find Air Quality Monitoring Information



Michigan Minnesota Current/Forecast Wisconsin Current/Forecast Ontario

Current/Forecast **Reports Reports Reports Current/Fore**cast **Reports**

Other Smoke Management Resources



Wildland Fire Air Quality Tools can be linked from your incident in WFDSS or access directly here. Wide variety of assessment products is available.



Land Atmosphere Near Real Time Data provides imagery for approximately 40 products from the MODIS, AIRS, MLS and OMI instruments. Worldview interactive viewer does not work with IE.

Interagency Real Time Smoke Montoring