

SMARTFIRE Viewer

The SMARTFIRE Viewer is an interactive tool that includes current and archived fire locations and the ability to run smoke trajectory forecasts to assess where smoke is likely to travel.

The screenshot shows the SMARTFIRE Viewer interface. At the top, there are navigation links: Smoke, Fire, Downloads, Framework, Tools, and FAQ. The user is logged in as WFDSS User. The SMARTFIRE section includes links for Fire Locations Map (Interactive), Web Service, Download Data, Documentation, and Operational Status. The main interface features a toolbar with icons for zooming, panning, and running trajectories. A legend on the right lists fire location sizes (100 acres or less, 100-500 acres, 500-5000 acres, more than 5000 acres), fire perimeters (Today's Fire Perimeters, Total Fire Perimeters), HMS fire detects, and ICS-209 reports. The map shows fire locations and perimeters in the Central Valley region of California, with labels for various fire complexes like Basin Complex and Los Padres NF. The interface also includes a date selector (6/29/2008), shift day options, and a list of SMARTFIRE layers.

Toolbar

- Zoom in to a smaller scale map. Click-and-drag for a box zoom.
- Zoom out to a larger scale map.
- Pan to a new map view at the current scale.
- Return to the previous map view.
- Zoom out to a continental scale map view.

Activate the **Tool Options Tab**. After selecting options, run HYSPLIT trajectories by selecting a location on the current map.

Remove all HYSPLIT trajectories from the current map.

Create a printable map.

HYSPLIT Trajectories

HYSPLIT trajectories are used to analyze the likely path of smoke plumes. SMARTFIRE Viewer allows you to run and view these trajectories along with fire location information. Trajectories can be run both forward and backward in time, for various predefined time periods, and for up to three heights. If chosen, various labels (e.g. start time, height, and pressure) can appear on the trajectories when the map scale is less than 22 miles. HYSPLIT trajectories can be run for any hour from year-2000 to present 48-hour forecast.

Tool Options

Tools | Tool Options

Trajectory Parameters

Hours
12hr Backward

Heights (m agl)

- 100
-
-

Label
(Only appears when map scale is less than 22 mi)

Hour
 Height (m agl)
 Pressure (mb)
 None

Source:
NOAA HYSPLIT model
NAMNDAS models (40km)
Most Recent: 16 Jun 2006 12Z
Model vertical velocity

Activate the Tool Options by selecting the trajectory icon in the toolbar.

Choose the trajectory type (e.g. forward or backward) and duration (e.g. 12-hr, 24-hr).

Run trajectories simultaneously for up to three different heights.

Add any one of three labels to the map. Note: labels will only show when the map scale is 20 miles or less.

View the source information including model, run time, and vertical calculation method used.