

OmniCast Fire Weather Tool



Notes for trial accounts

*Pushing the frontiers of
weather prediction*

Climate Forecast Applications Network

www.cfanclimate.net



Overview – CFAN's Fire Weather Tool

ECMWF based: 15 day forecasts, 2X/day

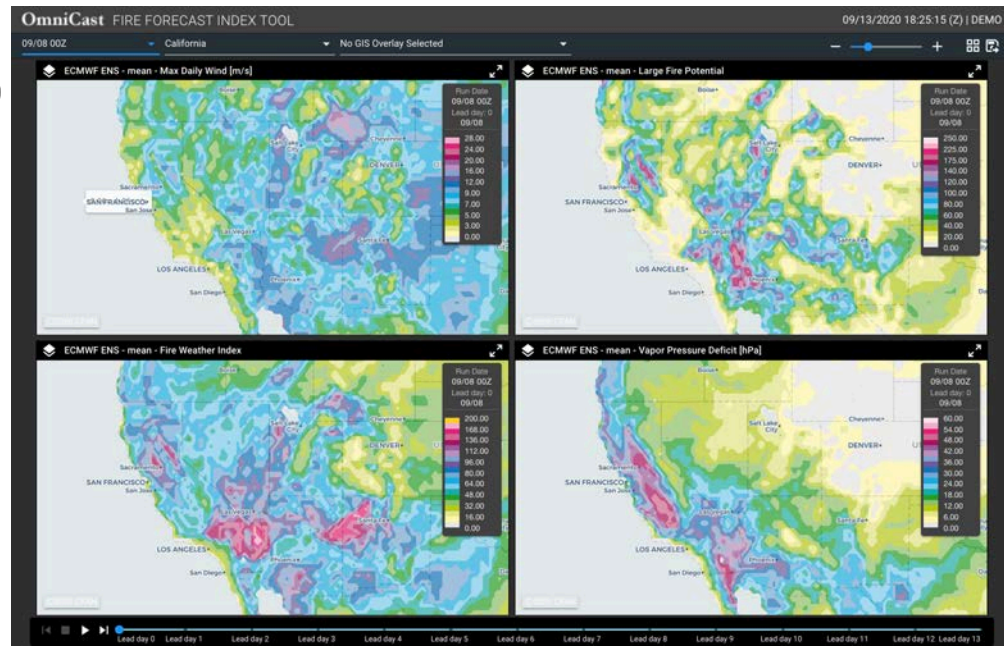
Full ECMWF resolution: HRES (9 km); Ensemble (18 km)

Probabilistic: mean, 5th, 75th and 95th percentiles

Zoomable regional maps

Forecast variables:

- Canadian Fire Wx Index (FWI)
- Large Fire Potential (SAWTI)
- Max daily wind
- Max daily temperature
- Vapor pressure deficit
- Total rainfall



Menu options

Most Recent Forecast

- 05/28 12Z
- 05/28 00Z
- 05/27 12Z
- 05/27 00Z
- 05/26 12Z
- 05/26 00Z

Select variable, model and ensemble

Variable
Fire Weather Index

Forecast Model
ECMWF ENS

Ensemble
75th quantile

United States

- Southeast
- New York/New Jersey
- Texas
- California

No GIS Overlay Selected

- US Counties Population Density
- California Electric Power Transmission Lines
- Florida Electric Power Transmission Lines
- U.S. Wind Turbine Database

Forecast date

Select variable, model, ensemble

region

GIS overlay

zoom

Toggle 4/1 display

OmniCast FIRE FORECAST INDEX TOOL

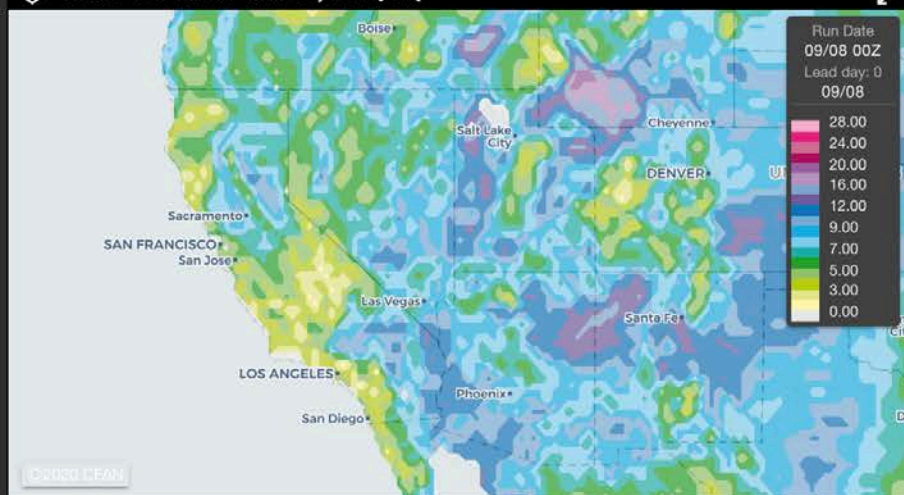
09/13/2020 18:30:13 (Z) DEMO

09/08 00Z

California

No GIS Overlay Selected

ECMWF ENS - mean - Max Daily Wind [m/s]

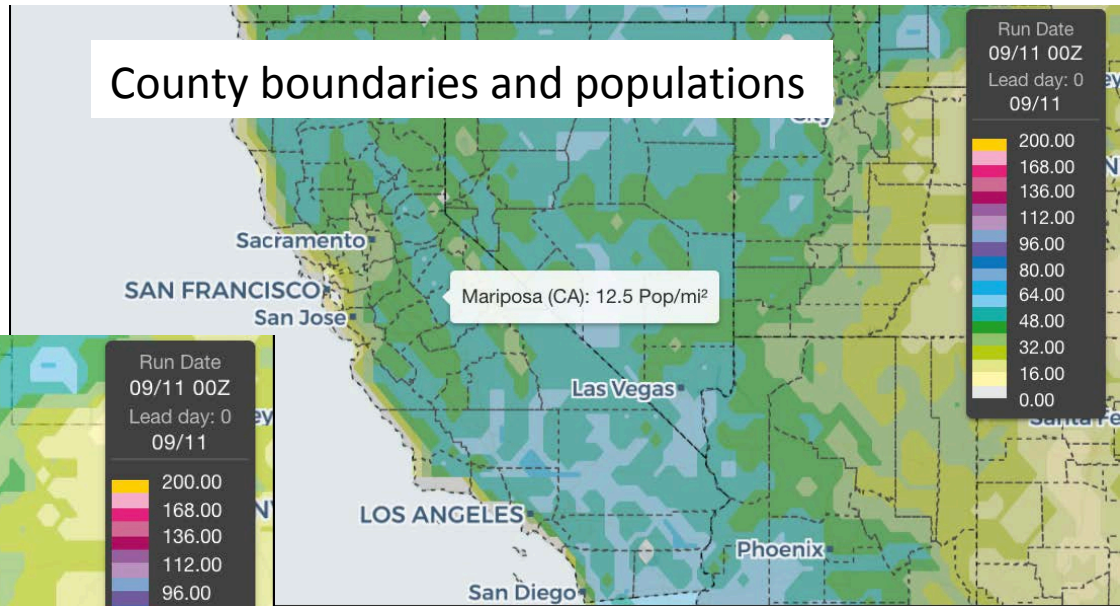


ECMWF ENS - mean - Large Fire Potential

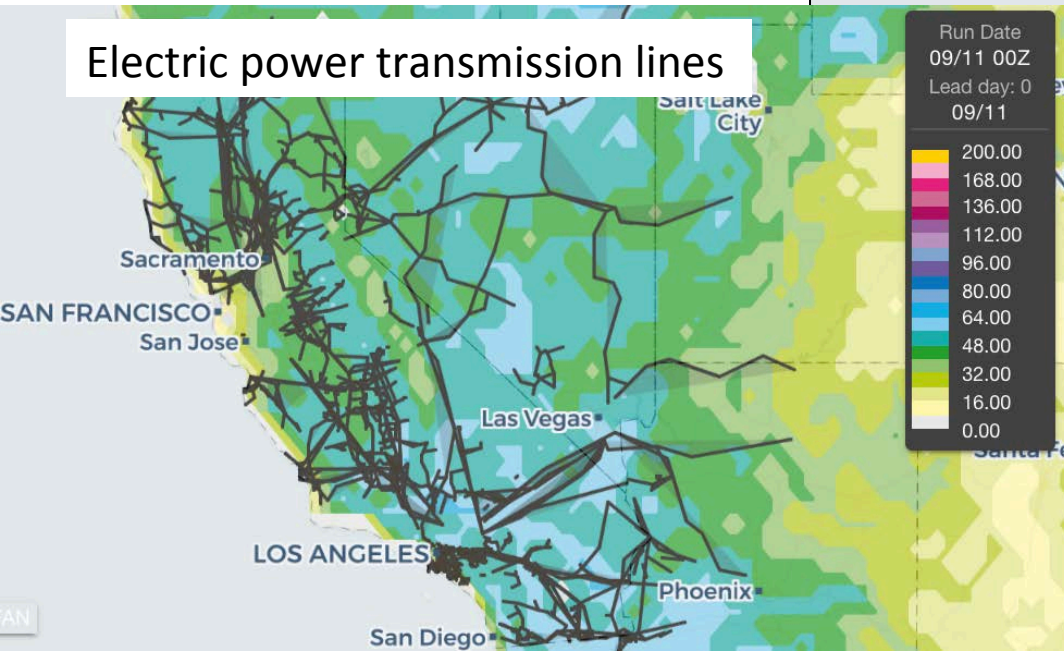


GIS Overlays

County boundaries and populations



Electric power transmission lines



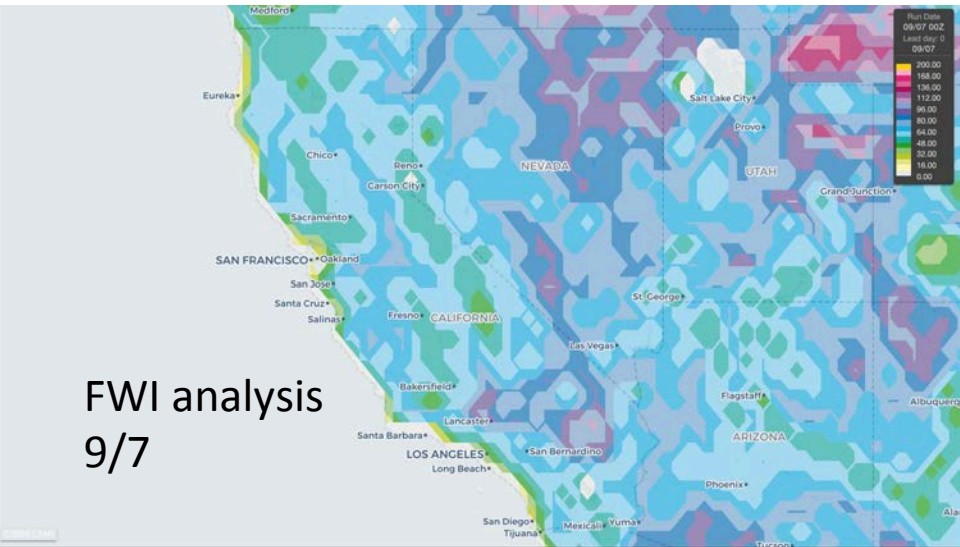
Wind turbine locations



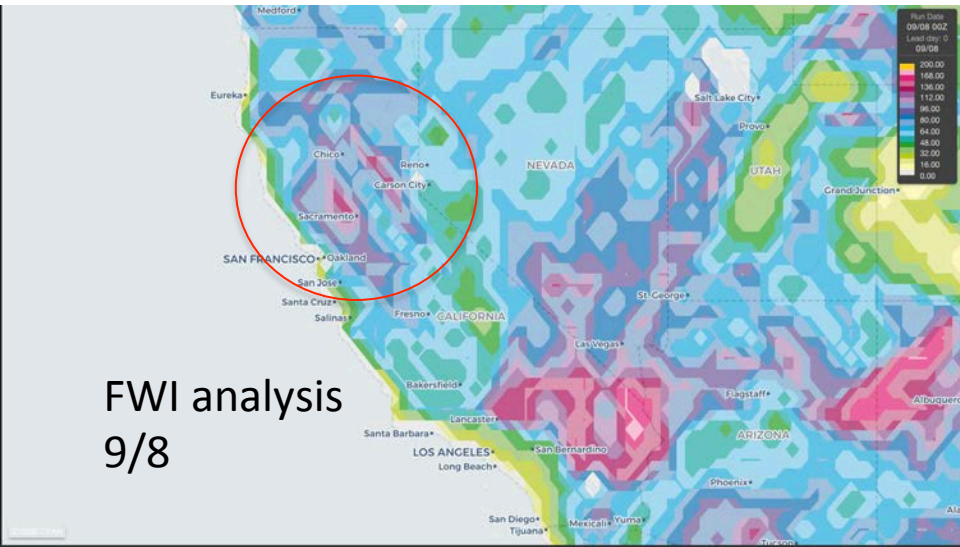
Case study: 9/8 Northern California

A singular event associated with high wind speeds

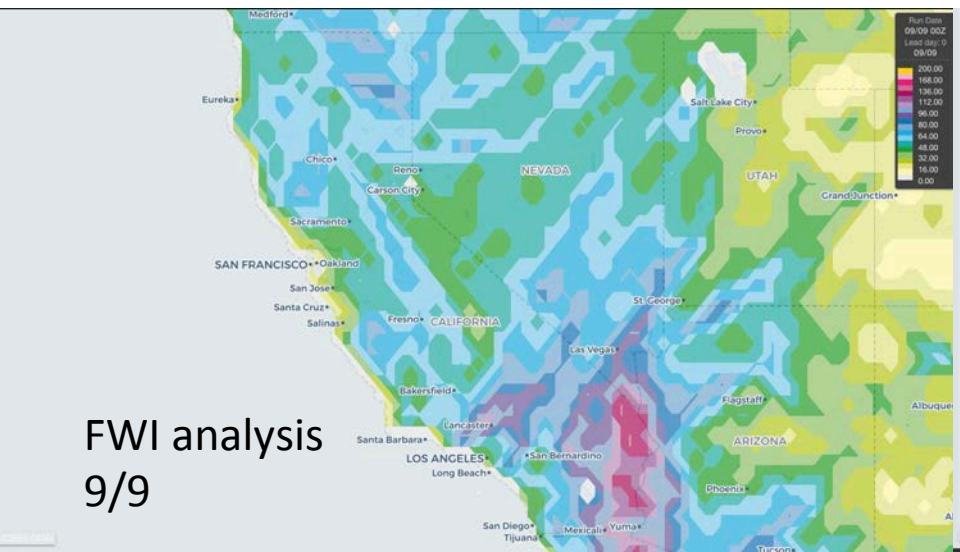
FWI analysis
9/7



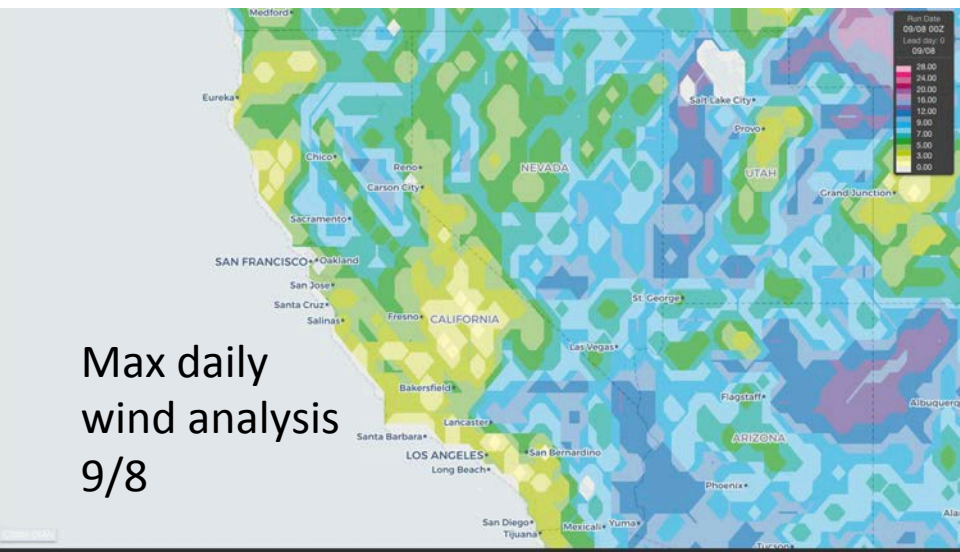
FWI analysis
9/8



FWI analysis
9/9



Max daily
wind analysis
9/8



Forecasts of FWI for 9/8

