# Other useful stuff:

Fire danger (how the gov decides)

<https://www.nps.gov/articles/understanding-fire-danger.htm>

<https://www.weather.gov/gjt/firewxcriteria>

# 

# Looking for…

* fire
  + ~~date/time started~~
  + ~~location (lon/lat)~~
  + ~~(maybe) acres burned~~
  + ~~(maybe) units, governments responsible~~
  + (maybe) cause
* environment and infrastructure
  + (maybe) terrain
  + foliage
    - ~~general foliage info~~
    - specific incidents (eg bark beetles)
  + urban, rural, etc
  + ~~forest maintenance~~
  + (maybe) power lines
* weather
  + ~~drought~~
  + humidity
  + ~~precipitation~~
  + ~~heat (and over a prolonged period)~~
  + ~~wind~~
  + storms, esp lightning
* other
  + ~~calfire high risk areas~~
  + (we’ll already have this, but we can look at if the area was previously burned and when)

# Dataset links (and descriptions)

* <https://incidents.fire.ca.gov/imapdata/mapdataall.csv>
  + CSV (or other formats available online [here](https://www.fire.ca.gov/incidents#:~:text=FOR%20SOFTWARE%20DEVELOPERS-,Incident%20Data,-Incident%20data%20is))
  + Source: CA gov
  + Features:
    - incident name
    - is final
    - date/time last updated
    - **date/time created**
    - **admin unit**
    - admin unit url
    - **county**
    - location (eg address, crossroads)
    - **acres burned**
    - containment
    - control
    - cooperating agencies
    - **longitude**
    - **latitude**
    - **type**
    - id
    - url
    - date extinguished
    - day extinguished
    - day created
    - is active (bool)
    - cal fire incident (bool)
    - notification desired (bool)
* <https://www.ncei.noaa.gov/metadata/geoportal/rest/metadata/item/gov.noaa.ncdc:C00861/html>
  + source: NOAA
  + features:
    - year, month, day
    - temp max, min
    - rain, melted snow
    - snow, hail
    - wind movement
    - evaporation
    - soil temp 4inches, 8 inches
  + daily weather data
  + possibly thousands of stations in the state
  + caveats
    - looking at the data, it might only have rain and sno
    - might be too much data
* <https://www.ncei.noaa.gov/metadata/geoportal/rest/metadata/item/gov.noaa.ncdc:C00684/html>
  + source: NOAA
  + daily weather
  + features (unverified) include:
    - temp: max, min, average
    - wind
    - more stuff
* <https://www.ncei.noaa.gov/metadata/geoportal/rest/metadata/item/gov.noaa.ncdc:C00313/html>
  + NOAA
  + hourly precipitation data
* <https://www.ncei.noaa.gov/metadata/geoportal/rest/metadata/item/gov.noaa.ncdc:C00532/html>
  + NOAA
  + wind data and lots of other 4-letter codes
* <https://www.ncei.noaa.gov/cdo-web/datatools>
  + **TOOL, NOT DATASET – Search across multiple NOAA datasets (e.g. by station)**
* <https://www.ncei.noaa.gov/products/land-based-station/comparative-climatic-data>
  + NOAA
  + comparative tables with monthly temp, wind speed, etc
* <https://droughtmonitor.unl.edu/DmData/DataTables.aspx>
  + drought info
  + source: UNL (.edu)
* <https://www.ncdc.noaa.gov/stormevents/>
  + source: NOAA
* <https://www.ncei.noaa.gov/products/severe-weather-data-inventory>
  + severe weather warning messages
  + source NOAA
  + probably not useful for us
* Cal fire datasets I haven’t looked through: <https://data.ca.gov/harvest/cal-fire>?
  + NOT SURE WE CAN ACTUALLY ACCESS THEM
  + perimeters: <https://data.ca.gov/dataset/california-fire-perimeters-all1>
  + wildland protection facilities: <https://data.ca.gov/dataset/facilities-for-wildland-fire-protection>
  + working forest management plans: <https://data.ca.gov/dataset/cal-fire-working-forest-management-plans-ta83>
  + land ownership: <https://data.ca.gov/dataset/california-land-ownership>
  + priority landscapes: <https://data.ca.gov/dataset/priority-landscapes>
  + hazard zones: <https://data.ca.gov/dataset/california-high-hazard-zones-tier-2>, <https://data.ca.gov/dataset/california-high-hazard-zones-tier-1>
  + vegetation: <https://data.ca.gov/dataset/california-vegetation-whr13-types>
  + more
* <https://catalog.data.gov/dataset/national-usfs-fire-occurrence-point-feature-layer-d3233>
  + fire ignition points
  + possibly too much data
* <https://data-nifc.opendata.arcgis.com/>
  + possibly useful data, but probably not
* <https://www.kaggle.com/datasets/washingtongold/wildfire-satellite-data>
  + nasa satellite. I haven’t verified
* <https://www.kaggle.com/datasets/elmadafri/the-wildfire-dataset>
  + images
* <https://www.kaggle.com/datasets/abdelghaniaaba/wildfire-prediction-dataset>
  + images
* <https://www.kaggle.com/datasets/capcloudcoder/us-wildfire-data-plus-other-attributes>
  + with cause, but idk about the quality
* fuel moisture data: <https://www.wfas.net/nfmd/public/index.php>

# Other data sources

* Cal Fire
* NOAA
* <https://www.climate.gov/>
* <https://catalog.data.gov/dataset>?
* (maybe)<https://calmatters.org/california-wildfire-map-tracker/>