

REN R 340 – 740 Fire Case Study Folder Details

1. **Fire Report** – contains the information from the Alberta Wildfire record of the fire (includes summary information such as dates, cause, area burned, and the timing of operational milestones) as well as fire weather and FWI indices for the day the fire was reported and received the initial assessment and initial firefighting response (Initial Attack). Note that some observations included in the report (such as fuel type) were taken at the time the fire was assessed and will not necessarily match other information sources, such as the fuel type map.
2. **Photos** – contains images of the wildfire taken during fire response operations. Note the dates/timing of the photos when interpreting them. Photos can provide important information about fire behaviour, fuel characteristics, weather, firefighting tactics, values at risk, etc. Keep in mind that these photos are not standardized – they will not be consistent from fire to fire. You will have to rely on whatever photos are available to you.
3. **Maps** – contains PDF copies of the following maps:
 - a. Locations of case study fires in relation to Natural Subregions
 - b. Fuel map showing FBP fuel types in the vicinity of the fire and in the broader landscape – note fuels represent 2008 conditions (i.e., prior to the case study fire). The fuel map is a grid with 100 m x 100 m cells (each 1 ha) derived from Alberta Vegetation Inventory (AVI) data (primarily photo interpretation) and is only an estimation of the fuel types.
 - c. Fire perimeter map with Google Earth imagery (Pre- and Post-fire images, if available)
 - d. Fire perimeter map with Google Earth imagery – broader landscape
 - e. Historical fire polygons 1931-2018 (does not include all fires – just fires with polygon records) for large fires that occurred in the vicinity of the case study fire – for immediate area and broader landscape
 - f. Historical point fire locations of all documented fires within 10 km of the case study fire between 2006 and 2018.
 - g. ABMI Human footprint features in relation to the fire
4. **Weather** – contains an Excel spreadsheet with the noon fire weather records (weather variables and FWI components) for each day in the fire season during which your case study fire occurred. This data is for the fire weather station in closest proximity to your case study fire.
5. **Fuels** – contains two Excel spreadsheets, one has a tally of the area, in hectares, within the fire perimeter that is associated with each FBP fuel type; the other spreadsheet contains the same information for a 500 m buffer around the exterior of the fire perimeter (an area that did not burn). These fuel type tallies were compiled from the 2008 fuel grid (prior to your case study fire) and contain counts of grid cells measuring 100 m x 100 m (each corresponding to 1 ha).
6. **Fires** – contains an Excel spreadsheet with a list of all historical fires documented within 10 km of the case study fire between 2006 and 2018. Each row represents a documented fire and the columns contain recorded fire report attributes (dates, cause, size etc..).
7. **Perimeter** – OPTIONAL RESOURCE: contains a shapefile of the fire perimeter. This can be imported into Google Earth or ArcGIS if you opt to make additional maps of your own.
8. **Point** – OPTIONAL RESOURCE: contains a shapefile of the fire point location (generally this is the origin of the fire). This can be imported into Google Earth or ArcGIS if you opt to make additional maps of your own.