

▼ Filters

4140

Total Wildfires

1.81M

Total Burned Area (Ha)

437.68

Avg Fire Size (Ha)

Provincial Land

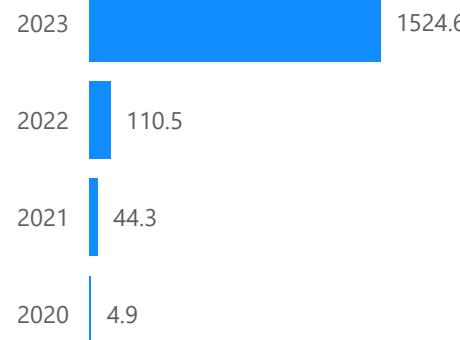
Most Prone Wildfire Region

Problem 1

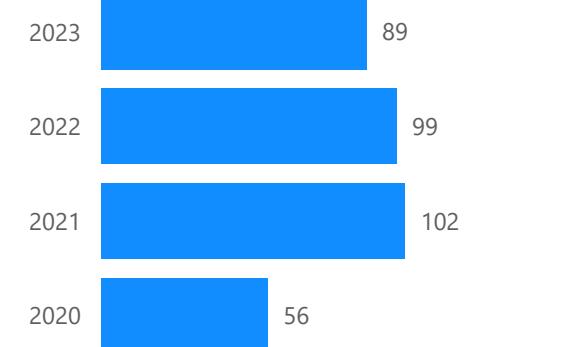
Show Totals

Which year was worst?

Average Area Burned (Ha) by Year

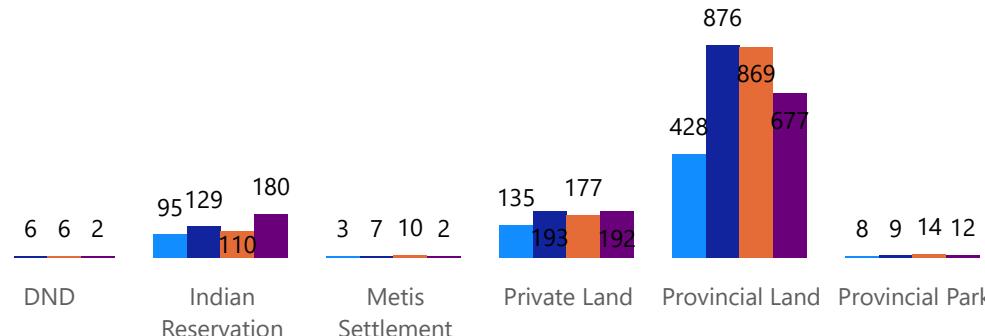


Monthly Average of Wildfires by Year

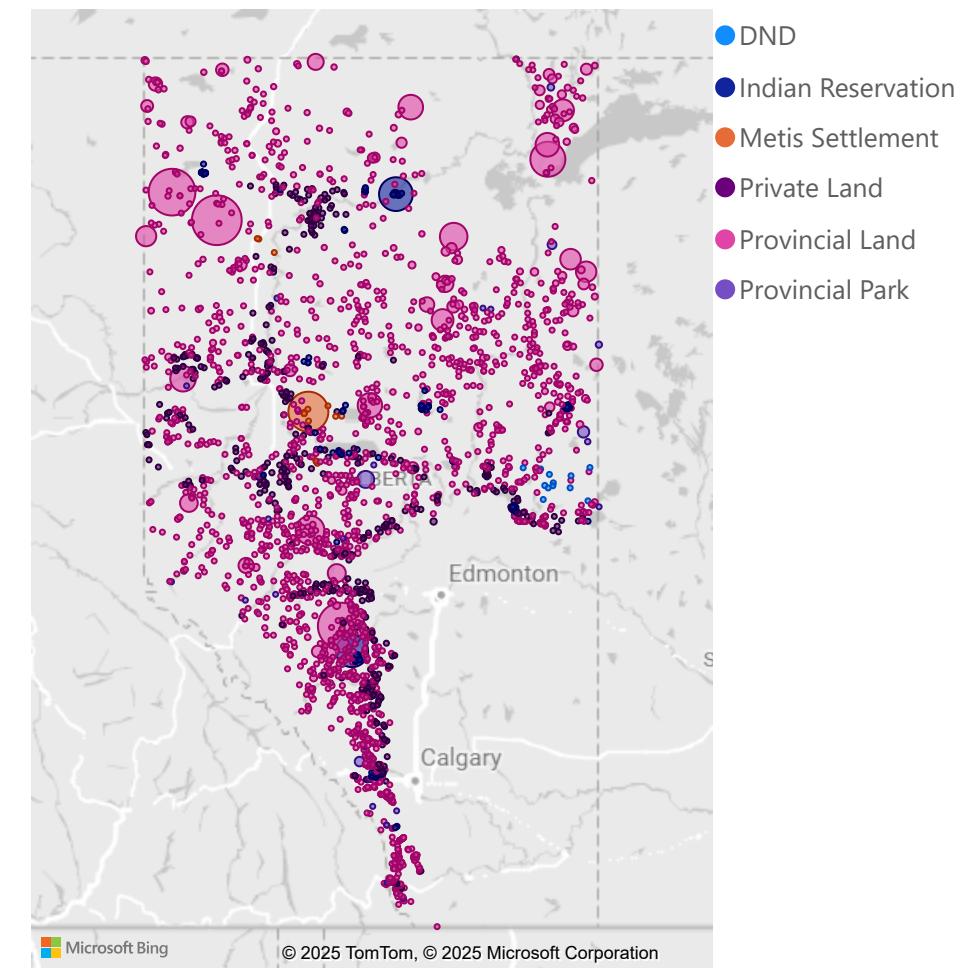


Total Wildfires by Year and Region

● 2020 ● 2021 ● 2022 ● 2023



Fire locations and size on Map of Alberta



What are the leading causes of wildfires across Alberta's regions and seasons?



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Summer

Lightning

Operations

Problem 1

Total Wildfires

Peak Season

Top Cause by General Class

Top Cause by Activity Class

Problem 2

Activity Class

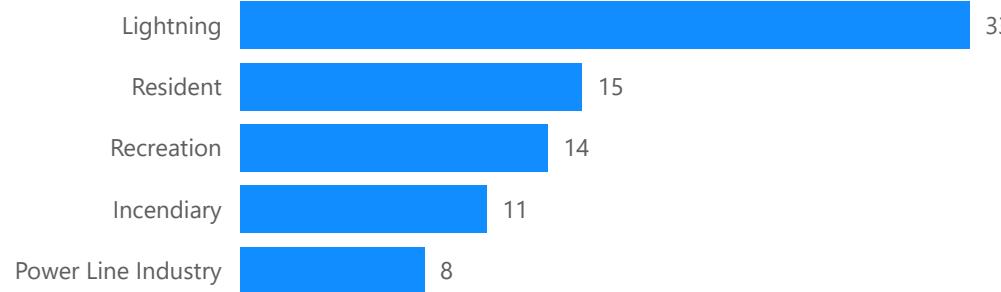
General Cause

Problem 3

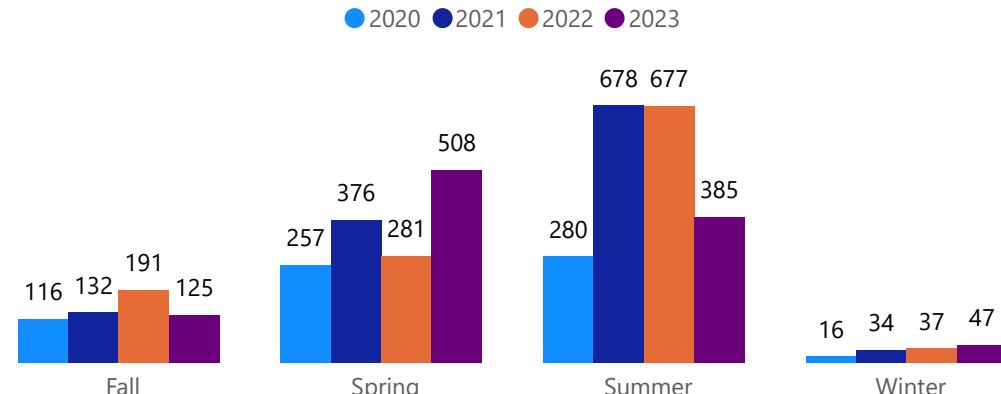
Problem 4

Problem 5

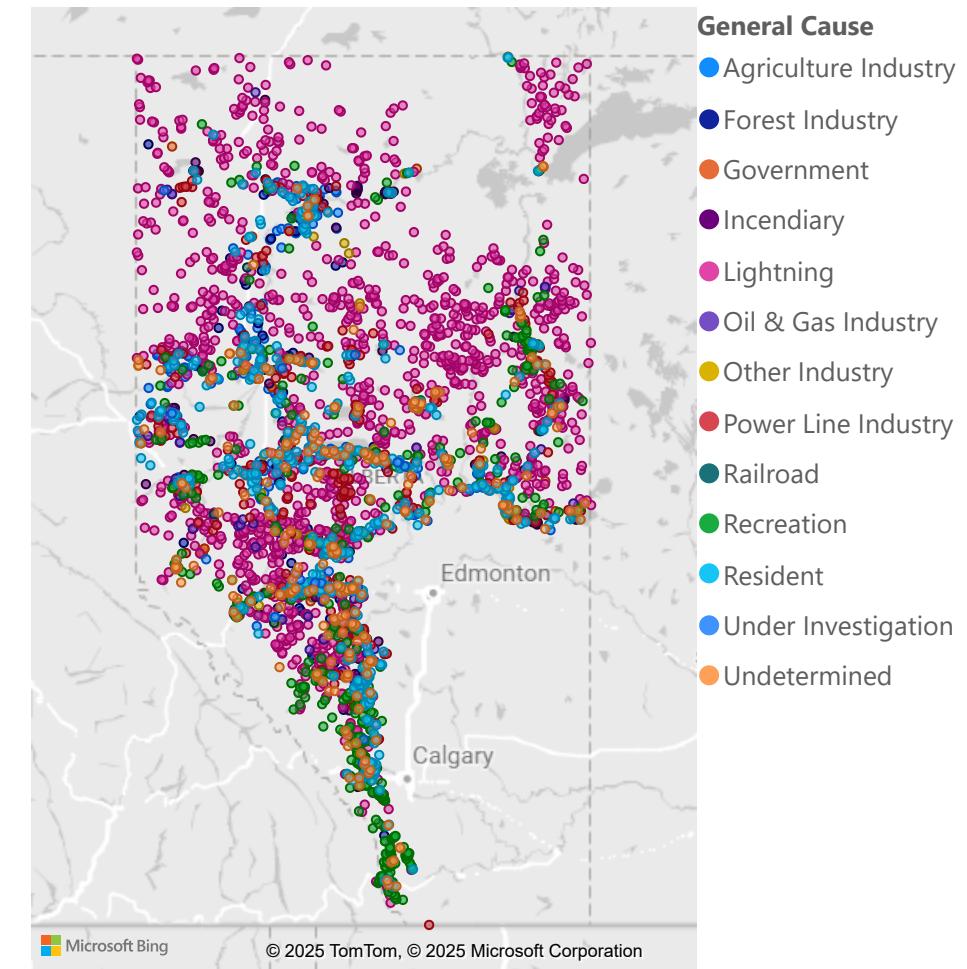
Top 5 Causes (%) of Wildfires



Wildfires by Season Across Years



Fire locations on Map of Alberta



How do Alberta's weather conditions influence wildfire size and spread?



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0.92

Problem 1

Avg Spread Rate (km/h)

Avg Temperature (C)

-39.00 17.77 39.90

Avg Wind Speed (kmph)

0 9.22

Avg Humidity (%)

0 44.76 100

Problem 2

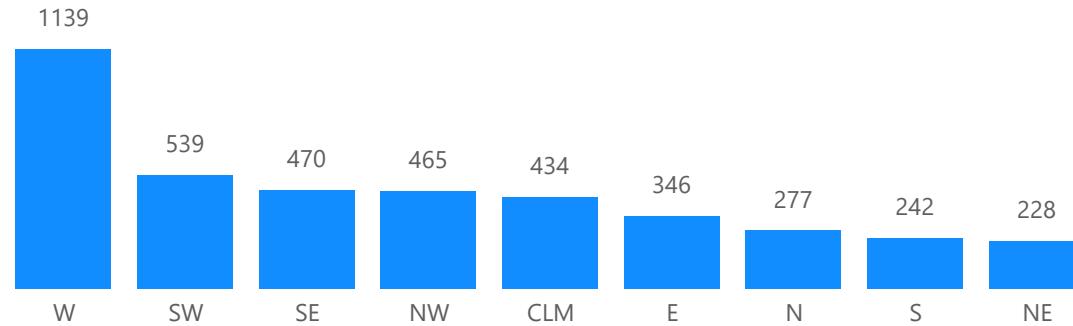
Temperature Humidity Season Wind Speed Wind Direction

Problem 3

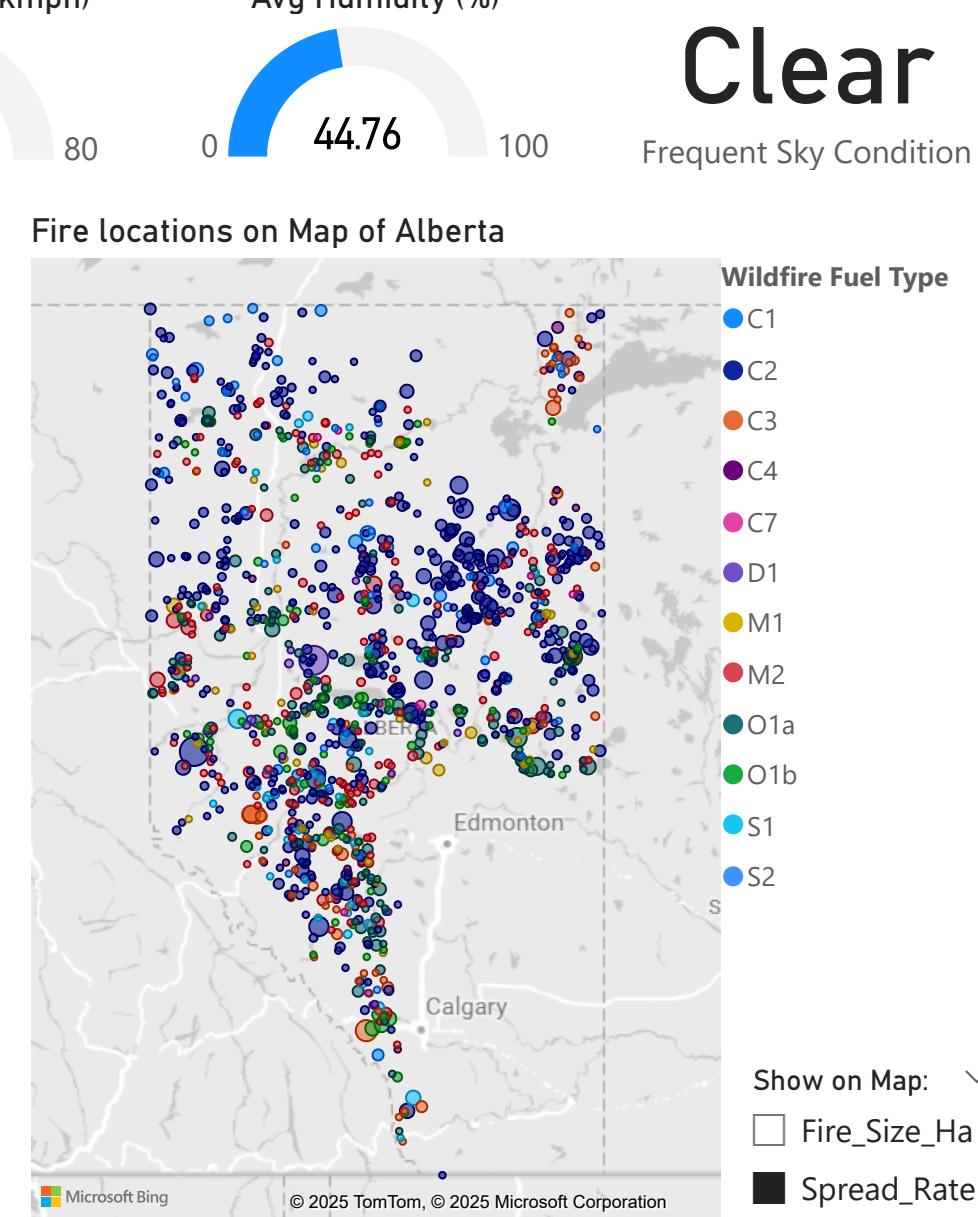
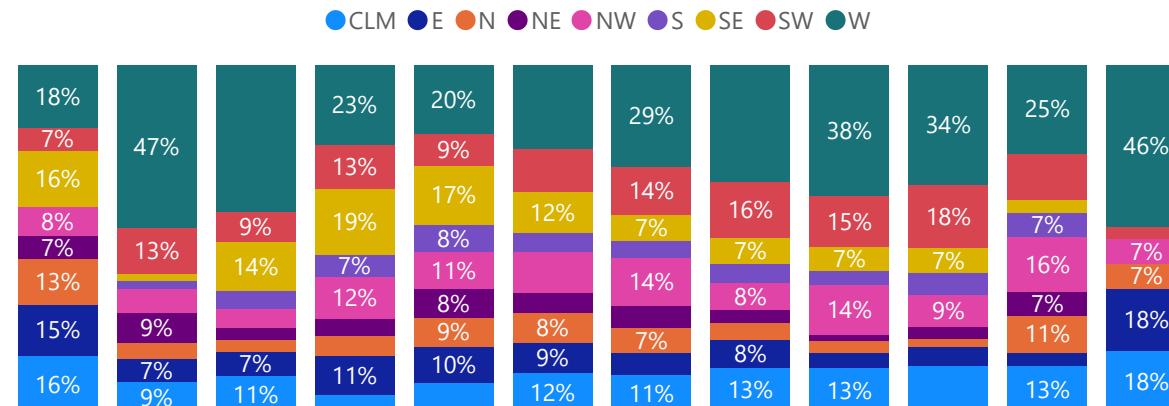
Problem 4

Problem 5

Wildfires by Wind Direction



Trend of Weather Condition Categories Over Time



Which Alberta regions are most at risk based on historical and weather data?



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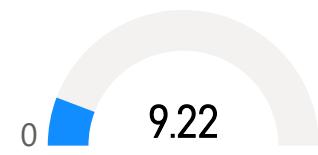
0.92

Avg Spread Rate (km/h)

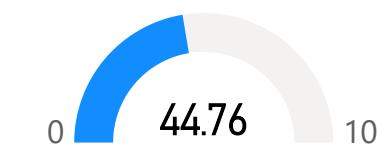
Avg Temperature (C)



Avg Wind Speed (kmph)



Avg Humidity (%)



437.68

Avg Fire Size (Ha)

Problem 1

Problem 2

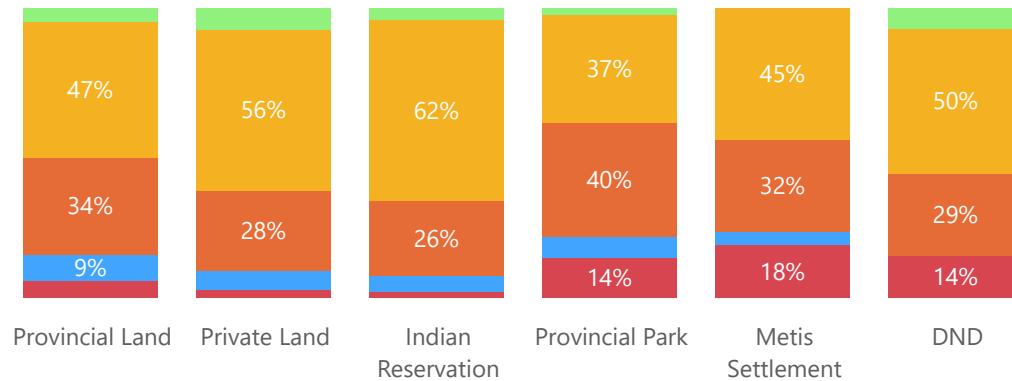
Problem3

Problem 4

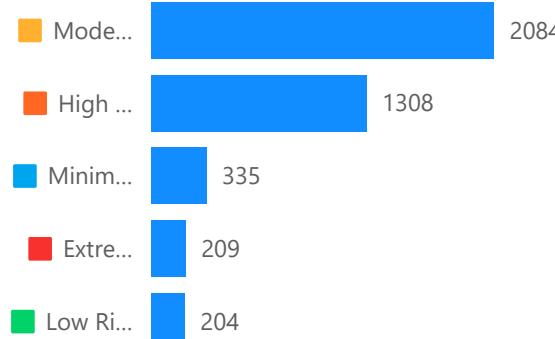
Problem 5

Risk by Region

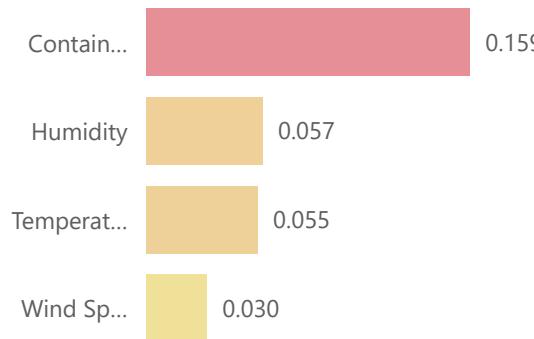
Extreme Risk (Red), Minimal Risk (Blue), High Risk (Orange), Moderate Risk (Yellow), Low Risk (Green)



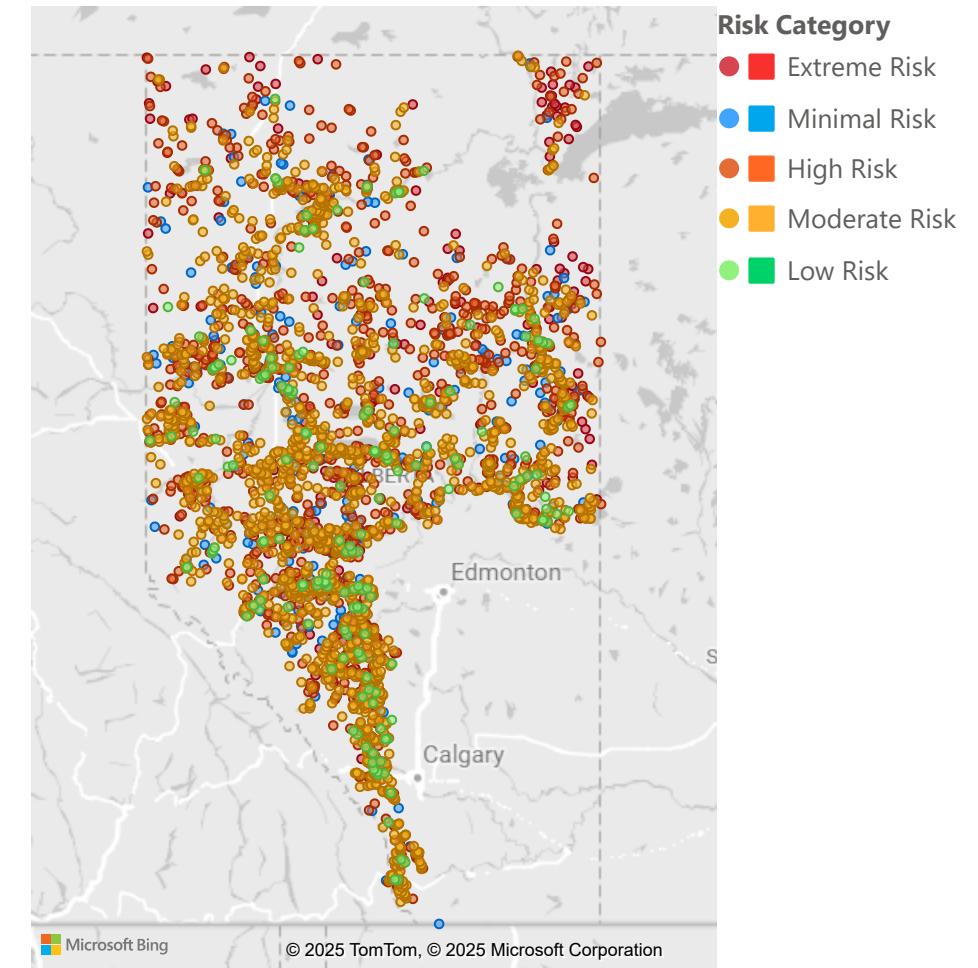
Wildfires by Risk Category



Correlation to Fire Size vs Variable



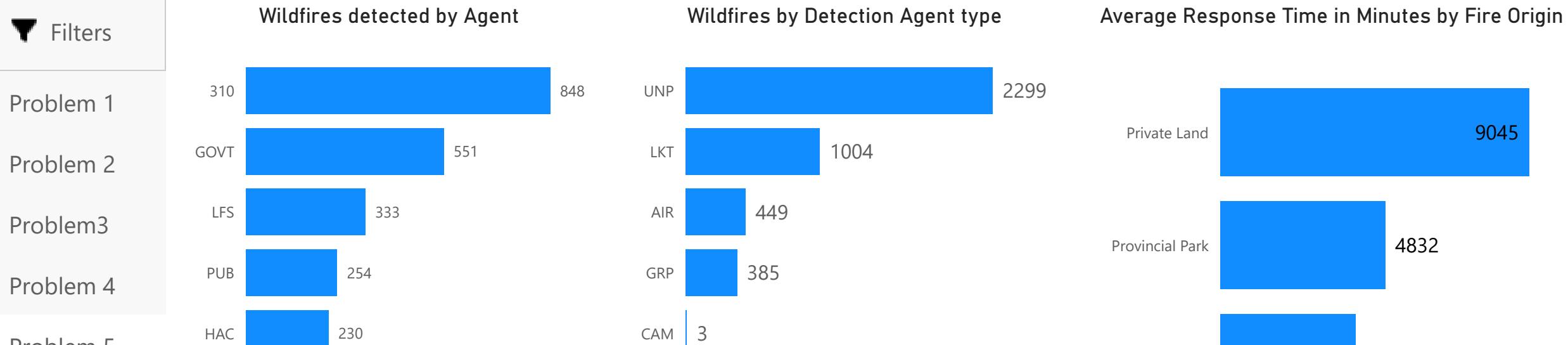
Fire locations on Map of Alberta



How do detection and response times vary across Alberta's regions and fire sizes?



Filters



Assessment Resource

