

Problem Statement:

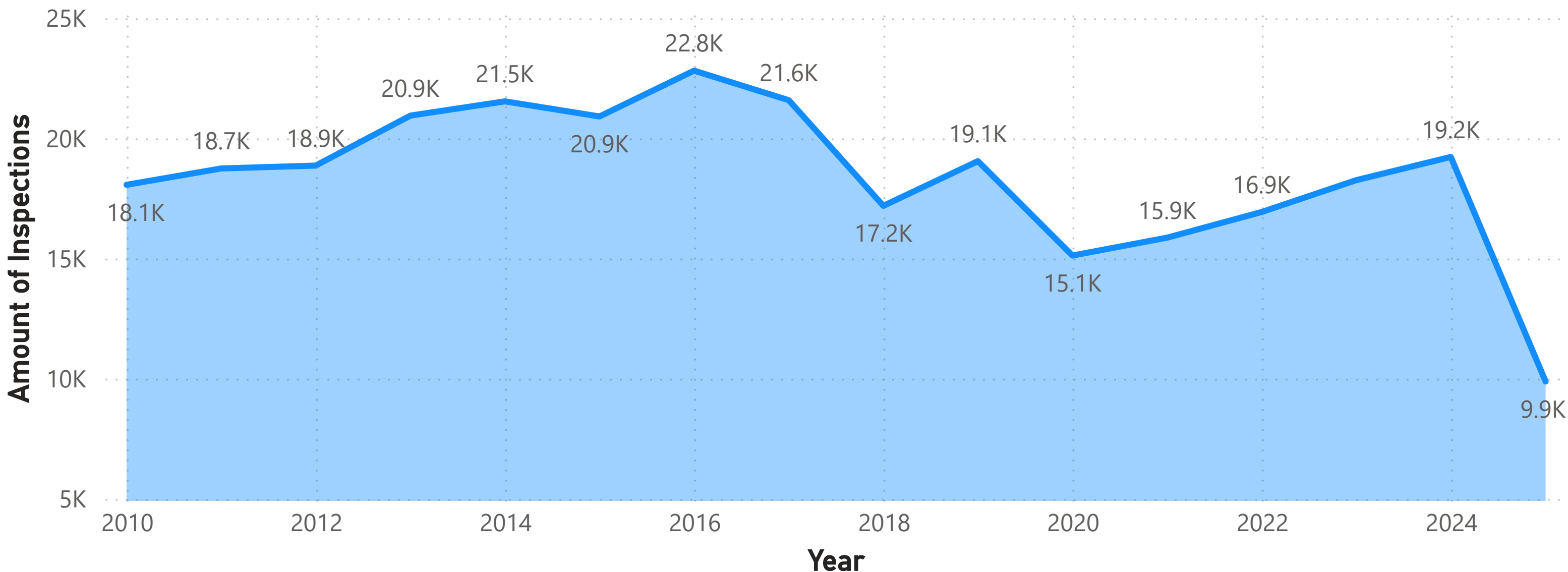
Health inspections are meant to keep people safe. To that end, examining the rhyme of failure rates, how they change depending on variables— month, facility type, etc— is crucial to next steps, like new government policy.

This analysis digs into patterns from 2010–2025 to spot: trends, seasonal shifts, and which facilities fail the most.

GOAL: Paint a clear picture of where risks are higher to help guide improvements.

OVERVIEW: Chicago Food Inspections

Total Inspections by Year



Total Inspections:

295.02K

Count of inspection_id

Passed Inspections:

197K

Sum of pass_flag

Failed Inspections:

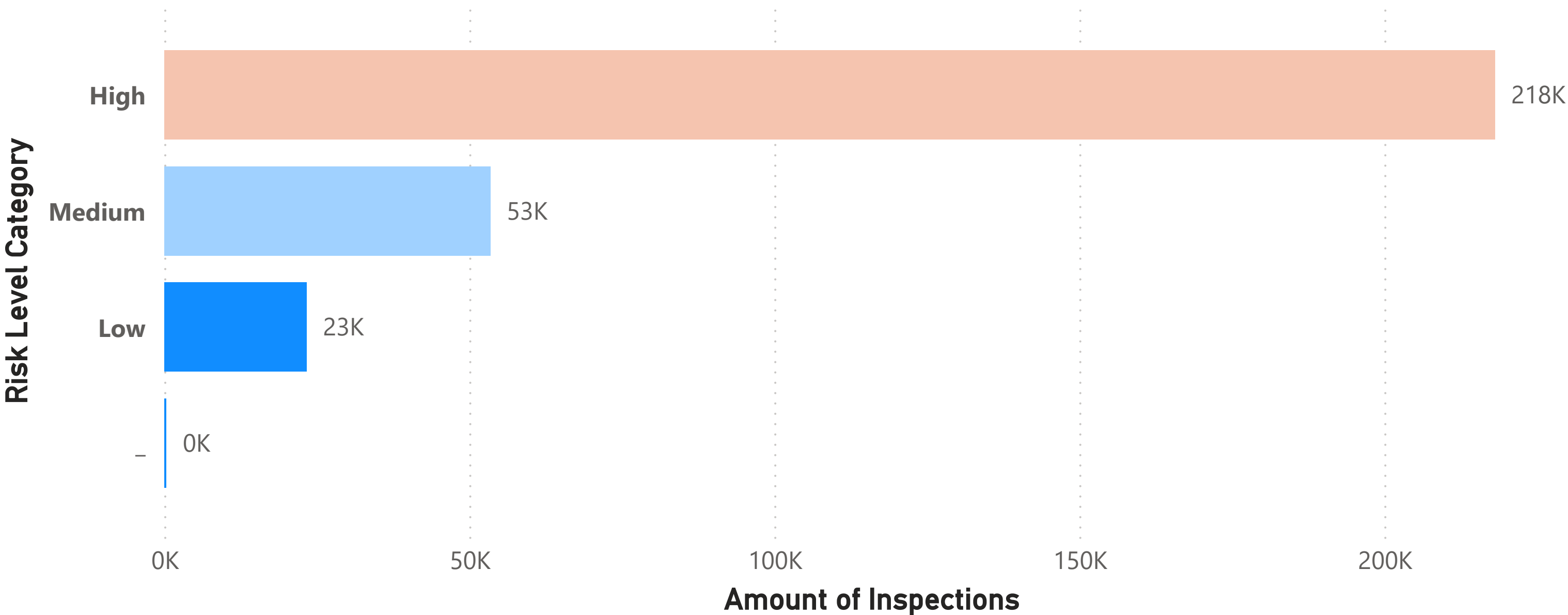
57K

Sum of fail_flag

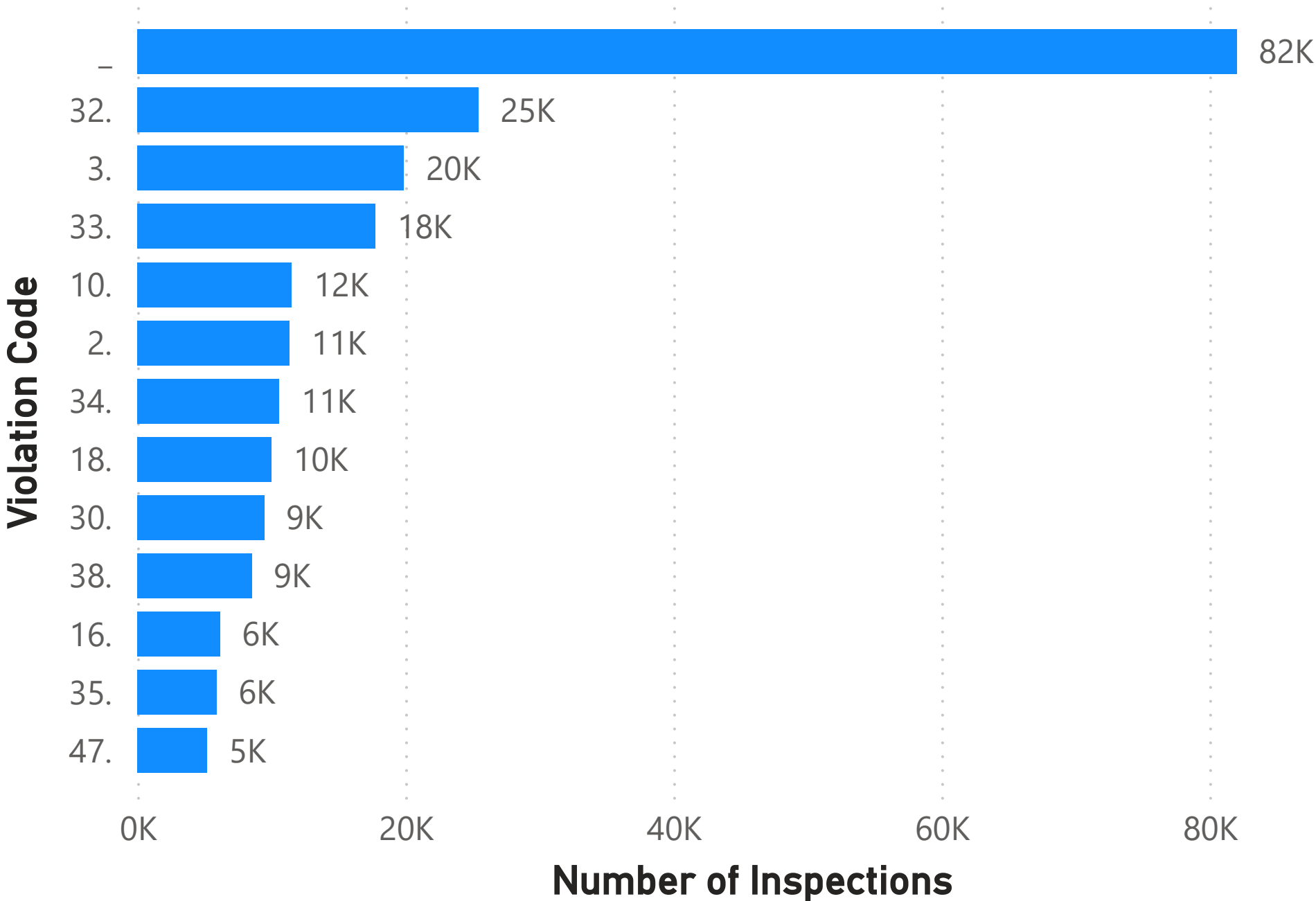
Pass Rate:

81.7%

Risk Level Distribution



Top Violations by Code

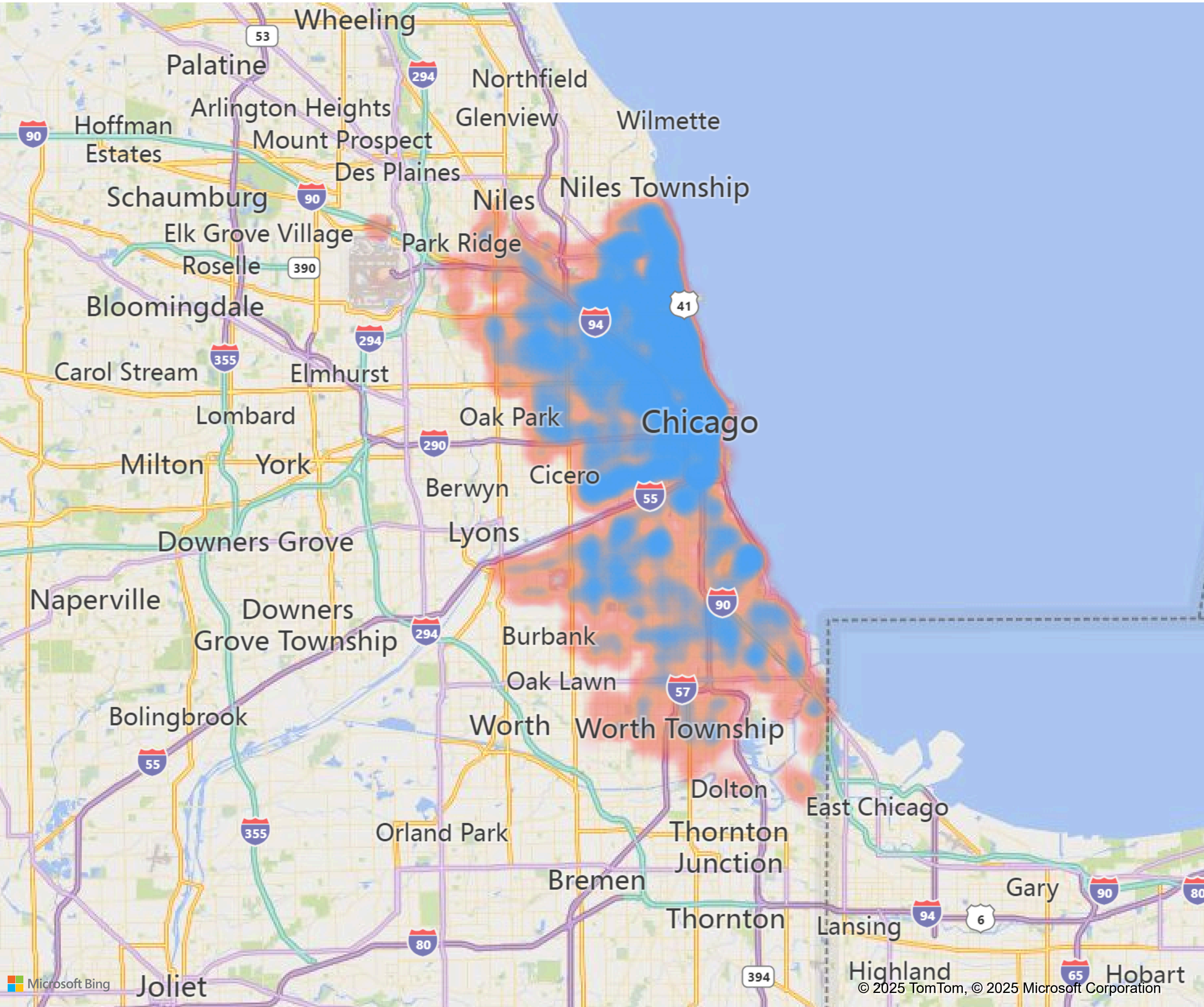


Violations by Chain (Top Offenders)

dba_name	Sum of violations_count	results_norm
UNI UNI DOWNTOWN	4	Pass
"GENGHIS" EATERY	12	Fail
"GENGHIS" EATERY	1	Other
"GENGHIS" EATERY	1	Pass
"M" BAR	1	Pass
"SWEET SUGAH" CATERING BOUTIQUE	1	Pass
#1 CHINA EXPRESS, LTD.	1	Other
#1 CHINA EXPRESS, LTD.	25	Pass
#1 CHOP SUEY	117	Conditional Pass
#1 CHOP SUEY	199	Fail
#1 CHOP SUEY	5	Other
#1 CHOP SUEY	286	Pass
#1 CHOP SUEY RESTAURANT	1	Other
#1 CHOP SUEY RESTAURANT INC	16	Fail
Total	3158774	

Violations

Inspections by Location



TRENDS

Filter by Risk, Year, Facility Type

risk_norm, year, facility_type

- ✓

☐

_
- ✓

☐

High
- ✓

☐

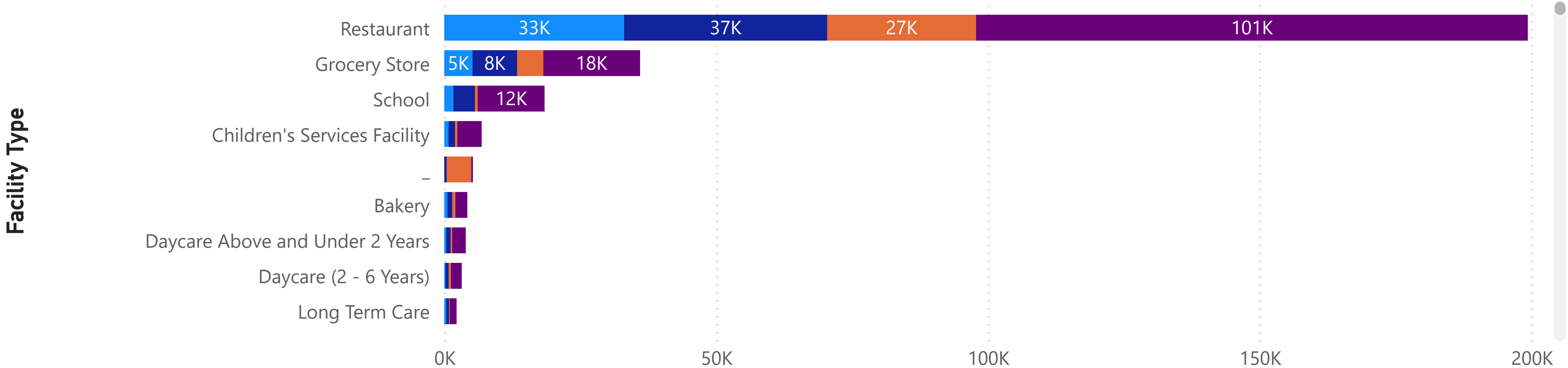
Low
- ✓

☐

Medium

Inspections by Facility Type & Result

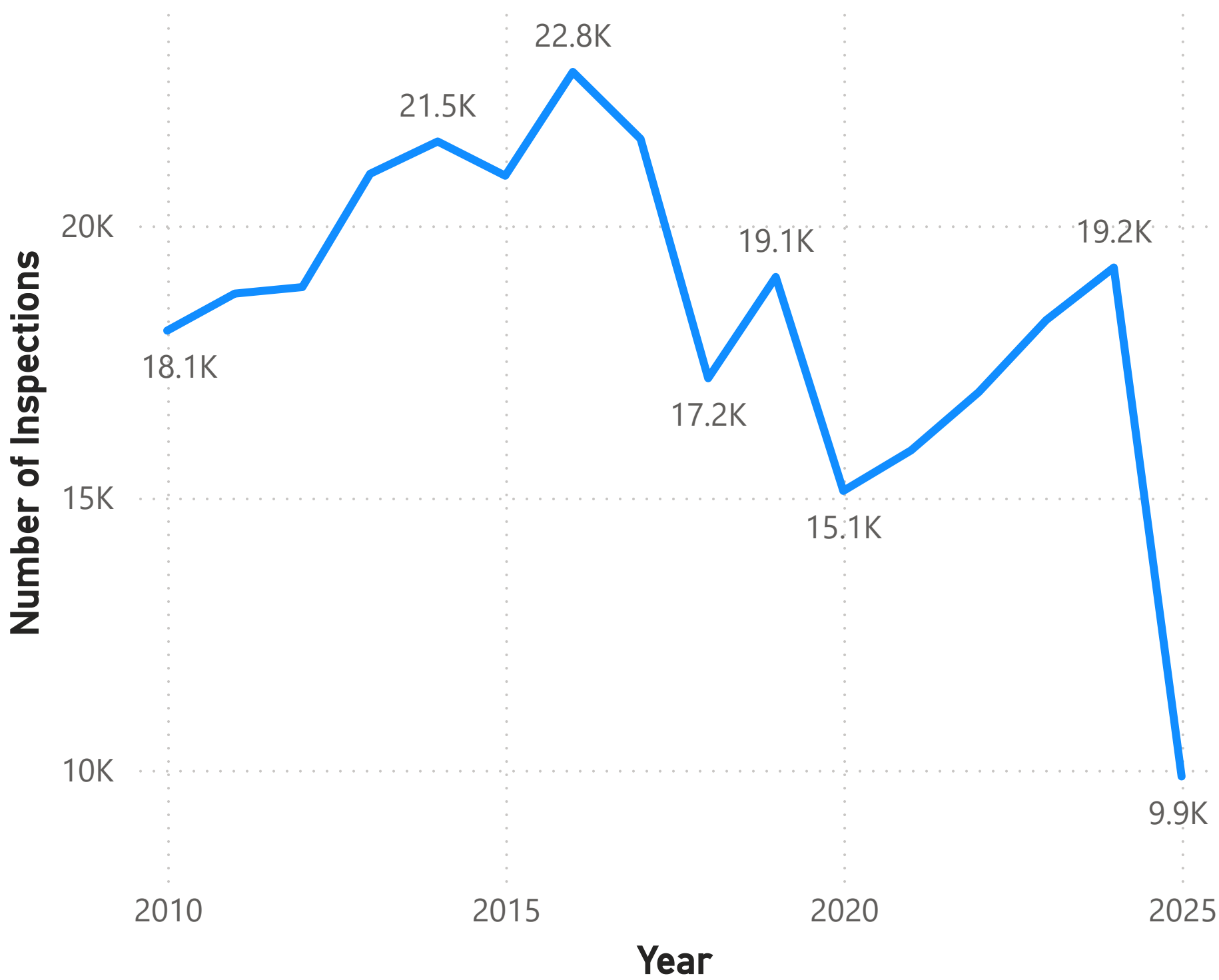
results_norm Conditional Pass Fail Other Pass



Monthly Inspection Distribution By Year

year	April	August	December	February	January	July	June	March	May	November	October	September	Total
2010	0.70%	0.71%	0.51%	0.60%	0.58%	0.64%	0.80%	0.61%	0.68%	0.54%	0.76%	0.75%	7.88%
2011	0.60%	0.77%	0.54%	0.45%	0.50%	0.61%	0.73%	0.67%	0.63%	0.69%	0.69%	0.73%	7.62%
2012	0.53%	0.64%	0.33%	0.46%	0.53%	0.54%	0.55%	0.53%	0.67%	0.48%	0.56%	0.57%	6.37%
2013	0.50%	0.52%	0.35%	0.46%	0.46%	0.48%	0.47%	0.47%	0.58%	0.41%	0.50%	0.66%	5.86%
2014	0.57%	0.66%	0.39%	0.46%	0.40%	0.60%	0.58%	0.45%	0.59%	0.49%	0.65%	0.67%	6.51%
2015	0.50%	0.59%	0.44%	0.47%	0.53%	0.52%	0.53%	0.58%	0.51%	0.49%	0.60%	0.56%	6.31%
2016	0.65%	0.76%	0.44%	0.54%	0.52%	0.54%	0.77%	0.70%	0.66%	0.56%	0.65%	0.74%	7.52%
2017	0.61%	0.64%	0.40%	0.56%	0.57%	0.51%	0.72%	0.72%	0.69%	0.51%	0.64%	0.63%	7.21%
2018	0.61%	0.47%	0.28%	0.49%	0.58%	0.37%	0.54%	0.58%	0.60%	0.41%	0.44%	0.44%	5.81%
2019	0.50%	0.65%	0.36%	0.49%	0.42%	0.53%	0.54%	0.55%	0.56%	0.45%	0.68%	0.61%	6.32%
2020	0.44%	0.35%	0.30%	0.50%	0.64%	0.34%	0.47%	0.51%	0.47%	0.30%	0.43%	0.39%	5.14%
2021	0.52%	0.49%	0.37%	0.29%	0.35%	0.45%	0.54%	0.43%	0.50%	0.39%	0.49%	0.48%	5.31%
2022	0.47%	0.63%	0.47%	0.37%	0.39%	0.47%	0.64%	0.55%	0.53%	0.53%	0.57%	0.61%	6.22%
2023	0.59%	0.72%	0.39%	0.50%	0.50%	0.46%	0.60%	0.60%	0.52%	0.55%	0.67%	0.60%	6.71%
2024	0.64%	0.51%	0.38%	0.53%	0.57%	0.50%	0.42%	0.54%	0.53%	0.39%	0.60%	0.50%	6.09%
2025	0.43%	0.07%		0.47%	0.54%	0.35%	0.34%	0.51%	0.39%				3.09%
Total	8.86%	9.19%	5.95%	7.61%	8.07%	7.91%	9.24%	9.00%	9.11%	7.18%	8.93%	8.94%	100.00%

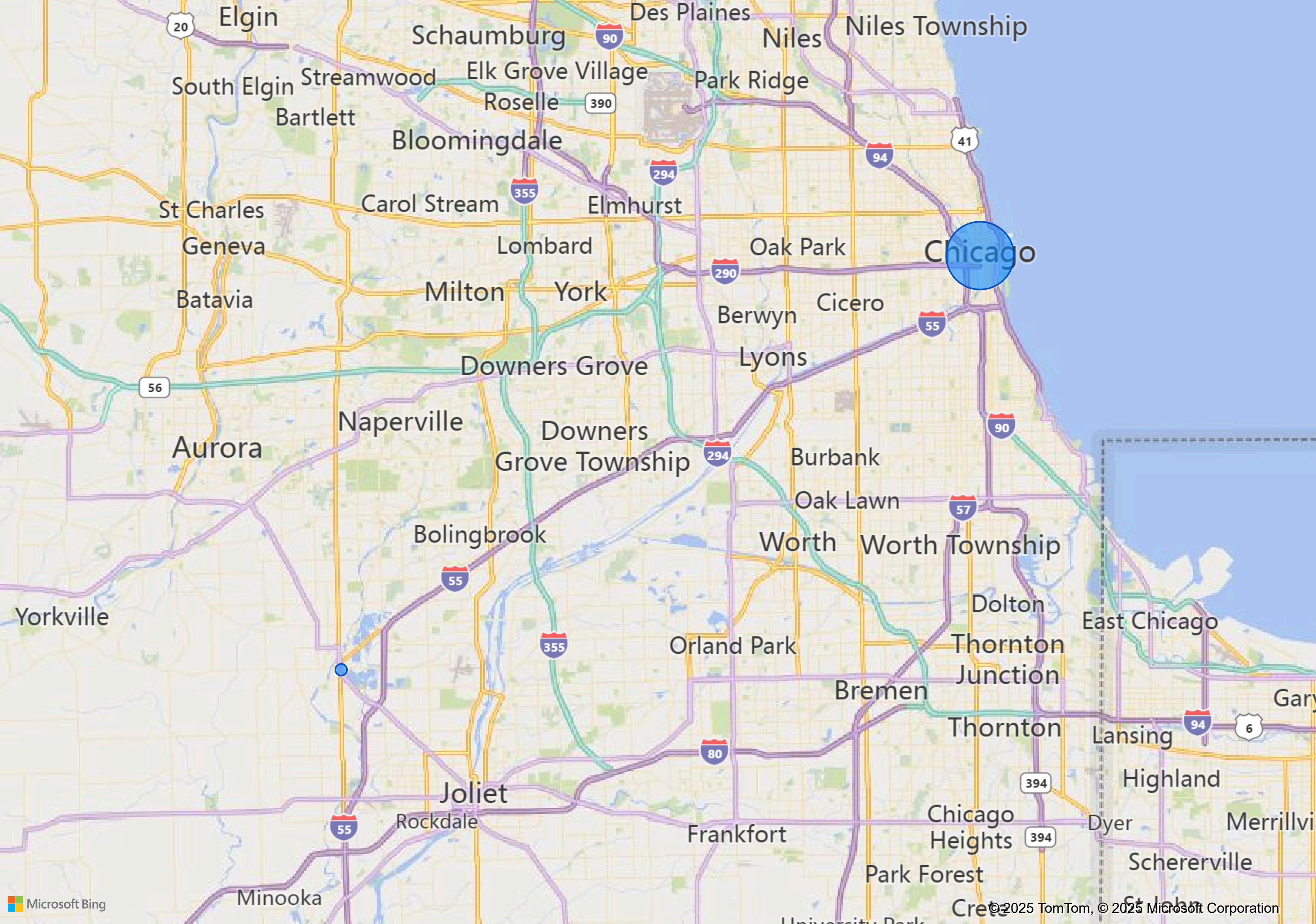
Amount of Inspections Inspections Over Time



Geographic Analysis

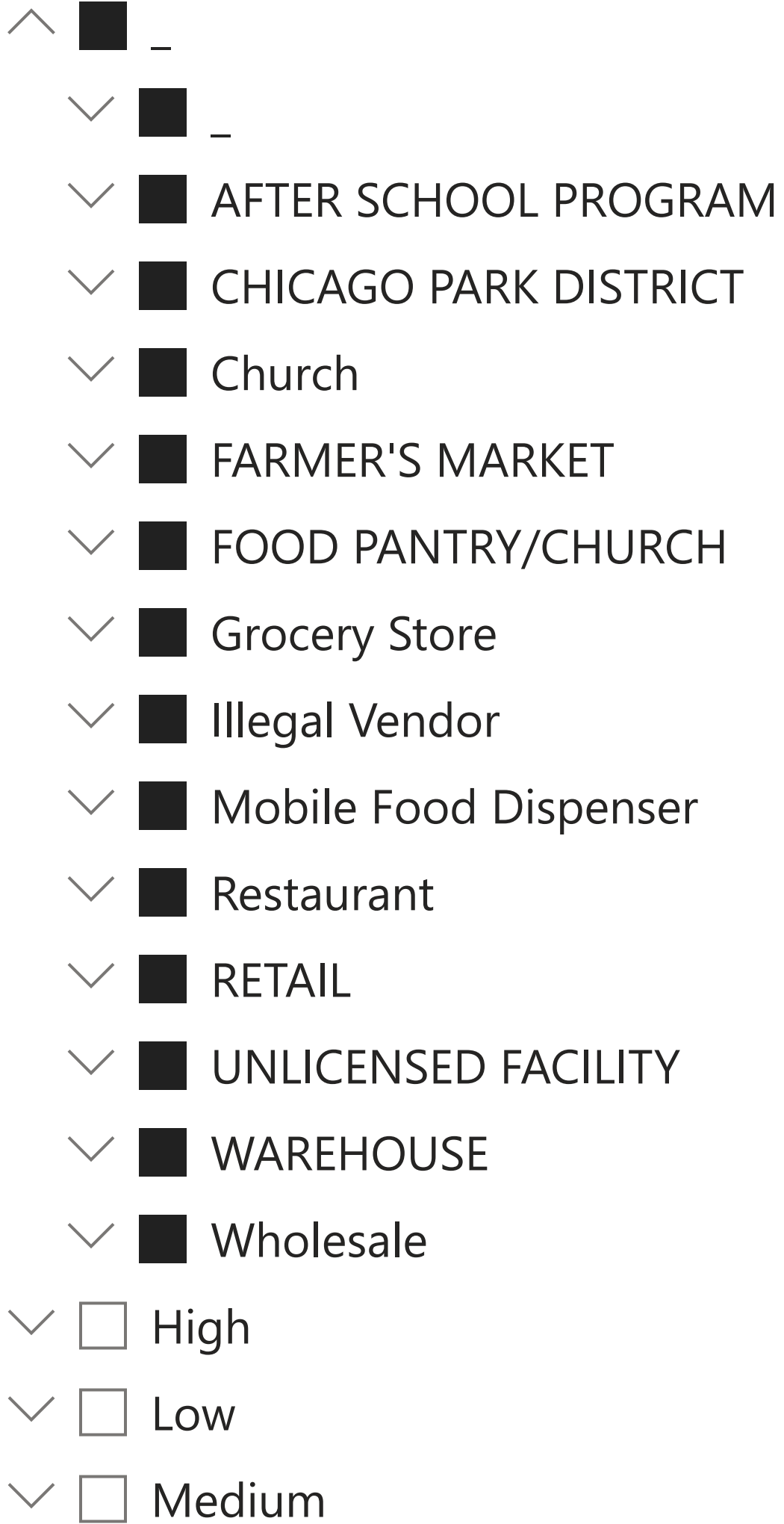
Inspection Locations by City

Bubble Size = Number of Inspections / Color = % Failed



Filter by Risk Level, Facility Type

risk_norm, facility_type, year



Seller/Business Profiles

Filter by Facility Type

- facility_type, risk_norm
- ✓

☐

(convenience store)
- ✓

☐

(gas station)
- ✓

☐

(REHAB CENTER)
- ✓

☐

_
- ✓

☐

1005 NURSING HOME
- ✓

☐

1023
- ✓

☒

1023 CHILDERN'S SERVICE S FACILITY
- ✓

☐

1023 CHILDERN'S SERVICES FACILITY
- ✓

☐

1023 CHILDREN'S SERVICES FACILITY
- ✓

☐

1023-CHILDREN'S SERVICES FACILITY
- ✓

☐

1475 LIQUOR
- ✓

☐

15 monts to 5 years old
- ✓

☐

1584-DAY CARE ABOVE 2 YEARS
- ✓

☐

ADULT DAY SERVICE
- ✓

☐

ADULT DAYCARE
- ✓

☐

Adult Family Care Center
- ✓

☐

AFTER SCHOOL CARE
- ✓

☐

AFTER SCHOOL PROGRAM
- ✓

☐

Airport Lounge
- ✓

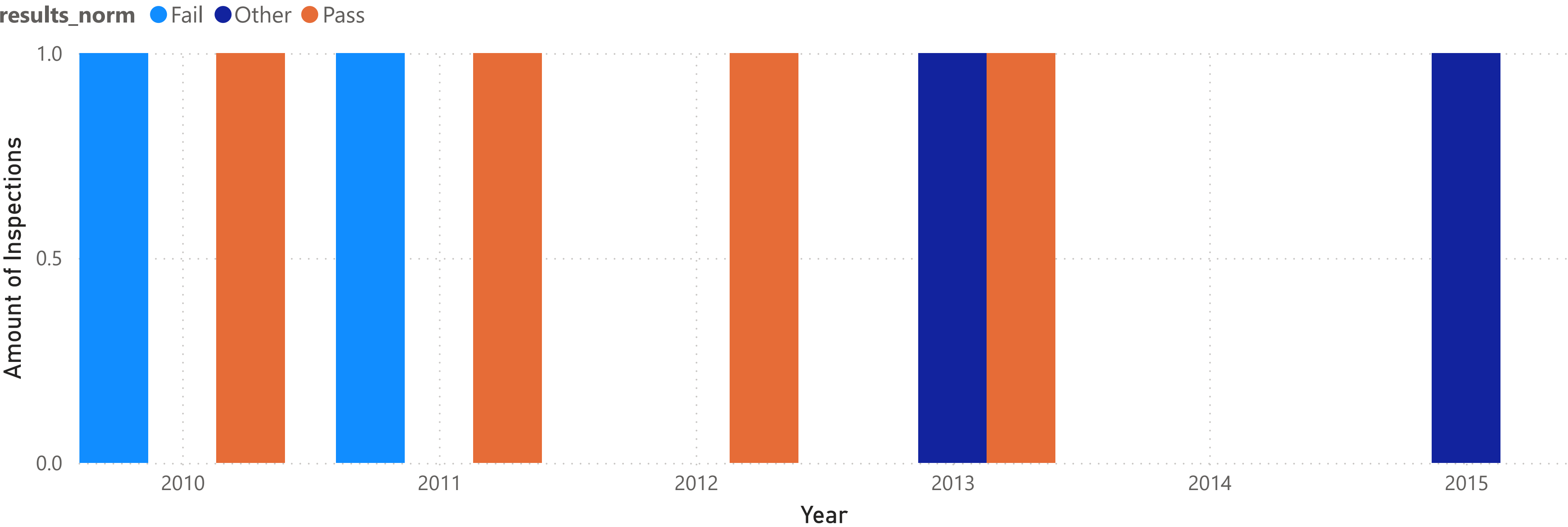
☐

ALTERNATIVE SCHOOL
- ✓

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Animal Shelter Cafe Permit

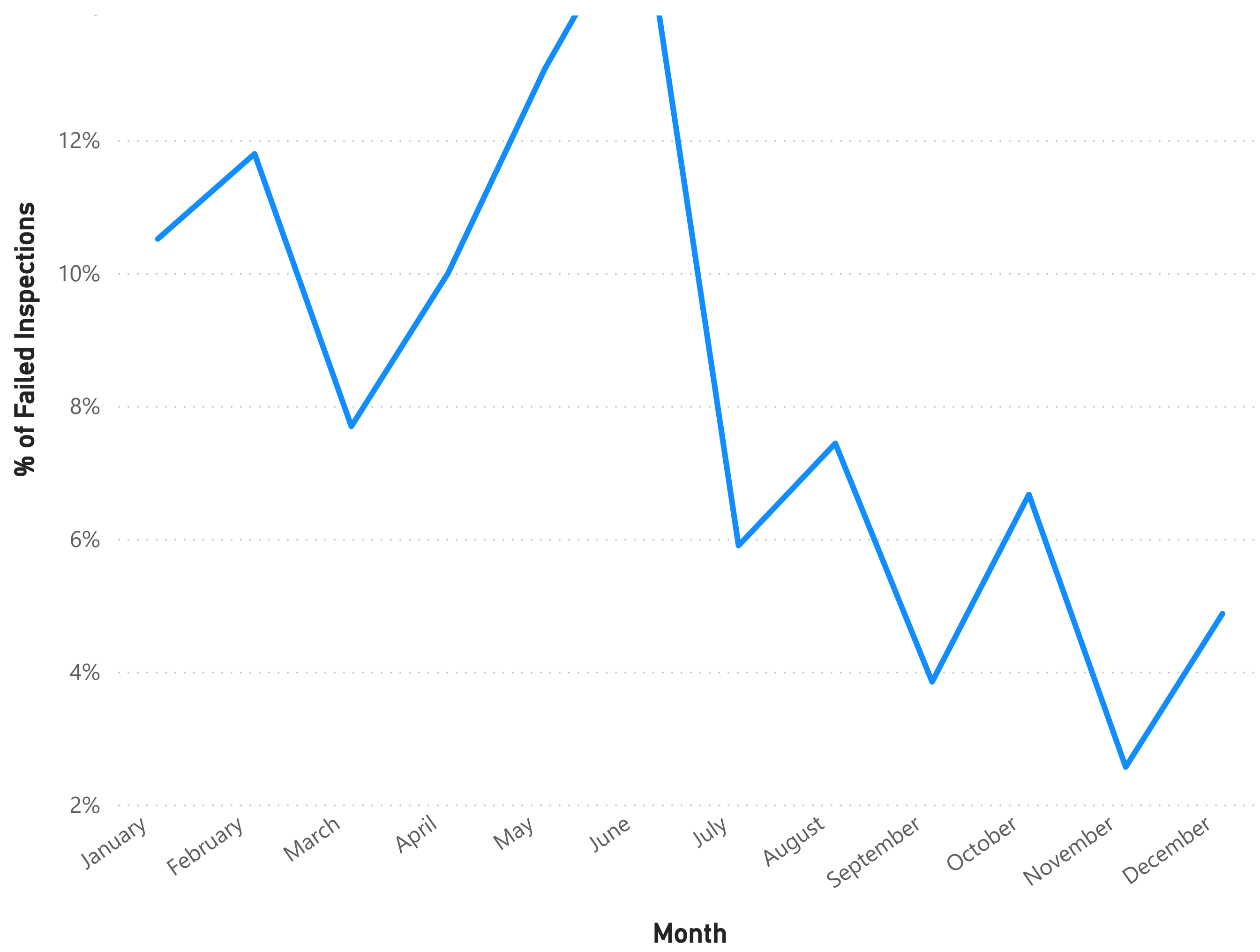
Inspection Results by Year



dba_name	Count of inspection_id	risk_norm	facility_type
THE LEARNING PLACE	8	High	1023 CHILDERN'S SERVICE S FACILITY
Total	8		

Time Trends Deep Dive

- facility_type, risk_norm
- ✓ (convenience store)
 - ✓ (gas station)
 - ✓ (REHAB CENTER)
 - ✓ _
 - ✓ 1005 NURSING HOME
 - ✓ 1023
 - ✓ 1023 CHILDREN'S SERVICES FACILITY



Count of inspection_id and %GT Sum of fail_flag by Month

