Manuscript Validation

Comparison Data Sets

ICS-209-PLUS https://github.com/katiemcconnell/ICS-209-PLUS_spatiotemporal_linkage
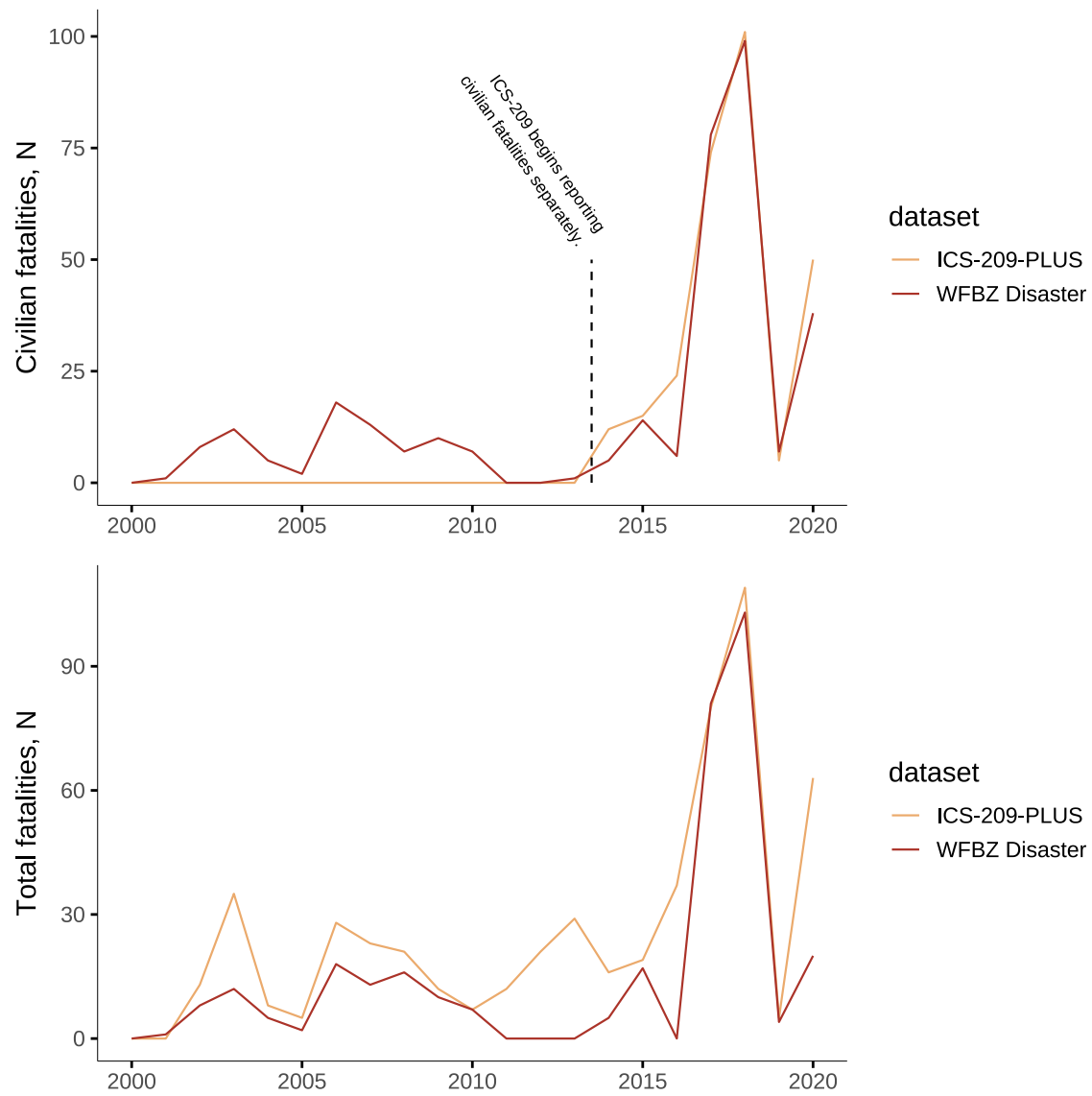
Comparison Figures

Number of Disaster Fires

For ICS209-PLUS, we defined a disaster fire as a fire that destroyed a building, had any fatality in or before 2013, or had a civilian fatality after 2013.

```
# A tibble: 4 x 2
  name                           value
  <chr>                          <dbl>
1 Mean Diff (WFBZ - ICS-209-PLUS)  15.2
2 SD Diff (WFBZ - ICS-209-PLUS)    55.3
3 Mean Abs Diff (WFBZ - ICS-209-PLUS)  46.3
4 SD Abs Diff (WFBZ - ICS-209-PLUS)    32.4
```

Fatalities

Stats for 2014 - 2020 only:

```
# A tibble: 4 x 2
  name                             value
  <chr>                            <dbl>
1 Mean Diff (WFBZ - ICS-209-PLUS)  -4.86
2 SD Diff (WFBZ - ICS-209-PLUS)     7.93
```
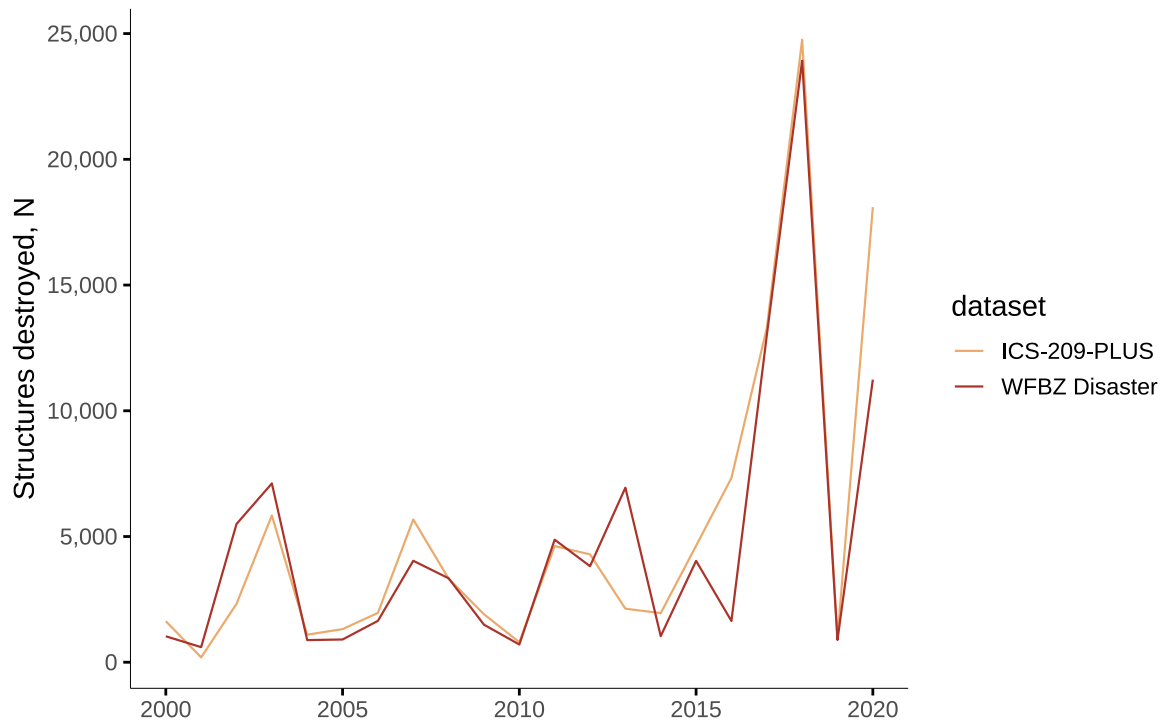
```
3 Mean Abs Diff (WFBZ - ICS-209-PLUS)  6.57
4 SD Abs Diff (WFBZ - ICS-209-PLUS)    6.32
```

Structures


```
# A tibble: 4 x 2
  name                                 value
  <chr>                                <dbl>
1 Mean Diff (WFBZ - ICS-209-PLUS)      -452.
2 SD Diff (WFBZ - ICS-209-PLUS)        2408.
3 Mean Abs Diff (WFBZ - ICS-209-PLUS) 1399.
4 SD Abs Diff (WFBZ - ICS-209-PLUS)   1989.
```
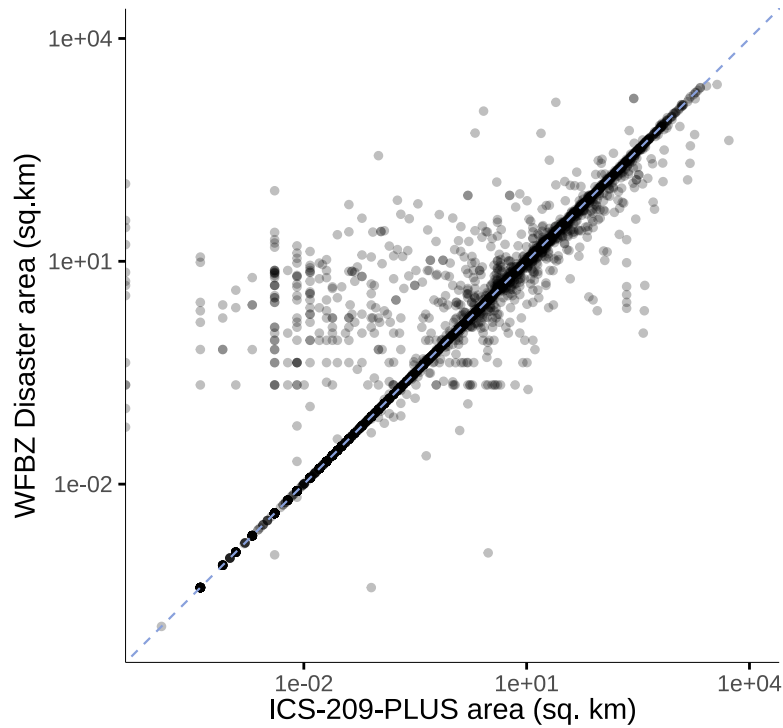
Direct Comparisons

Comparison of sizes of fires

We were able to match 4903 ICS-209-PLUS records to 4857 WFBZ Disaster records (some WFBZ Disasters included multiple records from ICS-209 and therefore corresponded to multiple ICS-209-PLUS records).

Median Difference (WFBZ Disaster - ICS-209-PLUS): 0

Median Abs. Difference: $6.9388939 \times 10^{-18}$

IQR Difference: -0.5315999 to 0.5315999

IQR Abs. Difference: -0.5315999 to 0.5315999

Spearman Correlation: 0.9405116

Pearson Correlation: 0.8461727