

Analysis of 66 Strikes

2024-09-27

```
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr      1.1.4      v readr      2.1.5
## v forcats    1.0.0      v stringr   1.5.1
## v ggplot2    3.5.1      v tibble    3.2.1
## v lubridate  1.9.3      v tidyr     1.3.1
## v purrr      1.0.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
##
## Attaching package: 'scales'
##
##
## The following object is masked from 'package:purrr':
##
##   discard
##
##
## The following object is masked from 'package:readr':
##
##   col_factor
##
##
## Attaching package: 'maps'
##
##
## The following object is masked from 'package:purrr':
##
##   map

## Warning: There was 1 warning in 'mutate()'.
## i In argument: 'hours_lost = *...'.
## Caused by warning in 'replace_na()':
## ! NAs introduced by coercion

## Warning: NAs introduced by coercion
```

Table 1: Summary of Total Strikes, Total Strikers, Total Strike Length, and Total Hours Lost

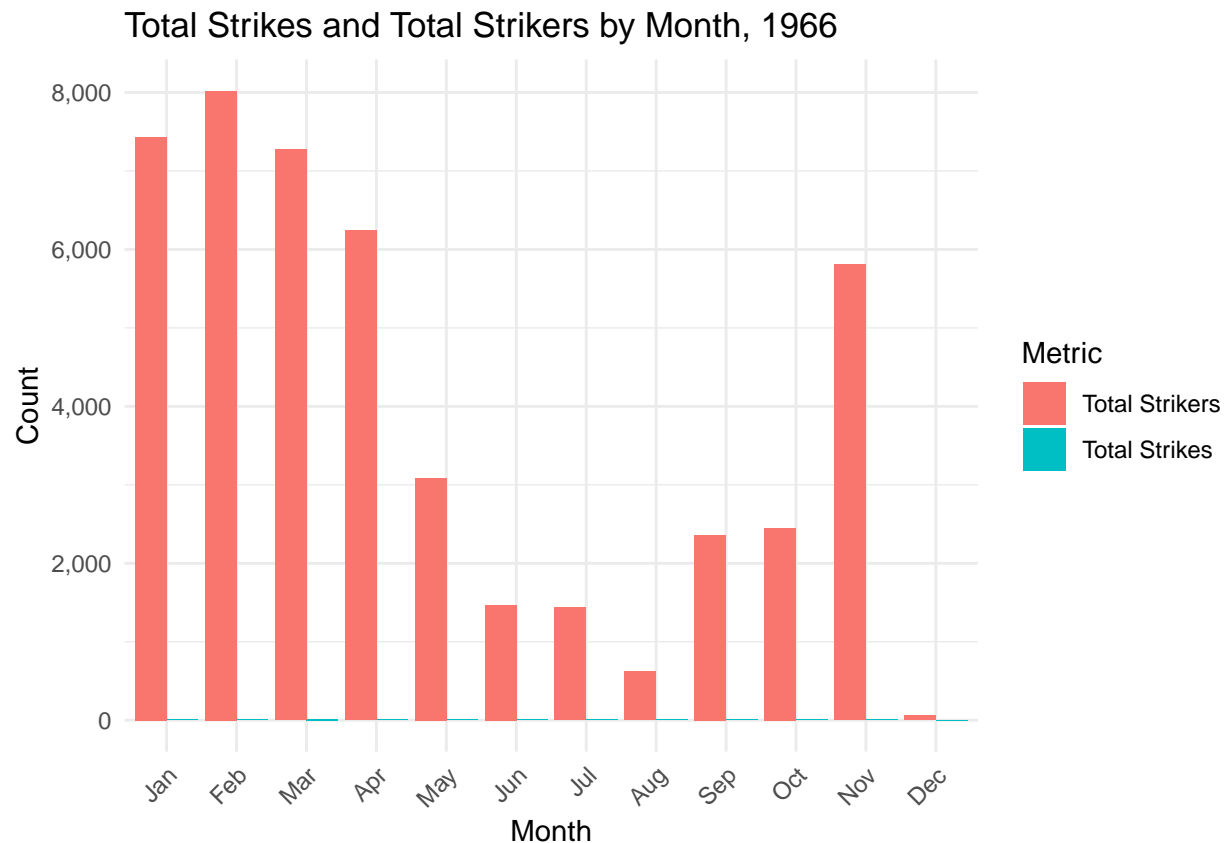
total_strikes	total_strikers	total_strike_length	total_hours_lost
102	46,264	2,378	18,863,736

Table 2: More Summary

mean_strikes	median_strikes	sd_strikers	min_strikers	max_strikers	mean_length	median_length	min_length	max_length
771.0667	385	1017.322	3	5200	25.84783	13.5	0	183

Table 3: Total Strikes and Total Strikers by Month, 1966

Metric	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total Strikes	6	9	13	12	6	12	10	7	10	8	6	3
Total Strikers	7433	8020	7274	6244	3089	1468	1433	623	2360	2452	5808	60



Rustbelt Strikes

A tibble: 13 x 2

```
##      State      total_strikers
##      <chr>      <dbl>
##  1 alabama      65
##  2 california    1456
##  3 connecticut   4000
##  4 illinois      5082
##  5 indiana       9245
##  6 kentucky      3400
##  7 michigan:south 3444
##  8 minnesota     675
##  9 new york:main  1380
## 10 ohio          10483
## 11 pennsylvania   690
## 12 washington:main 184
## 13 wisconsin      2410
```

```
## Warning in validateCoords(lng, lat, funcName): Data contains 5 rows with either
## missing or invalid lat/lon values and will be ignored
```

What cities are in the data?

Table 4: Top 10 Cities by Number of Strikes

Location	total_strikes	total_strikers
Detroit, Michigan	5	350
Lima, Ohio	4	2029
Chicago, Illinois	3	2413
Dayton, Ohio	3	600
Milwaukee, Wisconsin	3	450
Akron, Ohio	2	1600
Buffalo, New York	2	150
Elyria, Ohio	2	0
Fort Wayne, Indiana	2	1065
San Jose, California	2	1219

Table 5: Top 10 Cities by Number of Strikers

Location	total_strikes	total_strikers
Columbus, Indiana	1	5200
Stratford, Connecticut	1	4000
Newark, Ohio	1	2500
Chicago, Illinois	3	2413
Northlake, Illinois	1	2105
Lima, Ohio	4	2029
Marion, Indiana	1	1839
Akron, Ohio	2	1600
Columbus, Ohio	1	1350
Milwaukee, Wisconsin	1	1250

Table 6: Summary of Strikes and Employees on Strike by City

Location	total_strikes	total_strikers
Columbus, Indiana	1	5200
Stratford, Connecticut	1	4000
Newark, Ohio	1	2500
Chicago, Illinois	3	2413
Northlake, Illinois	1	2105
Lima, Ohio	4	2029
Marion, Indiana	1	1839
Akron, Ohio	2	1600
Columbus, Ohio	1	1350
Milwaukee, Wisconsin	1	1250
San Jose, California	2	1219
Horseheads, New York	1	1200
Kalamazoo, Michigan	1	1130
Warren, Michigan	1	1100
Fort Wayne, Indiana	2	1065
Wausau, Wisconsin	1	680
Minneapolis, Minnesota	1	675
Dayton, Ohio	3	600
Kent, Ohio	1	550
Maple Heights, Ohio	1	512
Evansville, Indiana	1	500
Lebanon, Pennsylvania	1	500
Princeton, Indiana	1	451
Milwaukee, Wisconsin	3	450
Detroit, Michigan	5	350
Manistee, Michigan	1	320
Mattoon, Illinois	1	302
Rock Falls, Illinois	1	262
Coldwater, Michigan	1	217
Springfield, Ohio	1	217
Delphos, Ohio	1	210
Galion, Ohio	1	200
Jeannette, Pennsylvania	1	190
Renton, Washington	1	184
Buffalo, New York	2	150
Cincinnati, Ohio	1	135
Traverse City, Michigan	1	135
Hayward, California	1	134
Lansing, Michigan	1	120
Claremont, California	1	100
Toledo, Ohio	1	80
Wisconsin Dells, Wisconsin	1	80
Anniston, Alabama	1	65
Oak Park, Michigan	1	50
Long Island, New York	1	30
Livonia, Michigan	1	22
Alameda, California	1	3
Elyria, Ohio	2	0
Tulsa, Oklahoma	2	0
Atlanta, Georgia	1	0

Location	total_strikes	total_strikers
Bucyrus, Ohio	1	0
California	1	0
Carrollton, Texas	1	0
Charleston, West Virginia	1	0
Cleveland, Ohio	1	0
Edison, New Jersey	1	0
Elba, Alabama	1	0
Elmira, New York	1	0
Erie, Pennsylvania	1	0
Fostoria, Ohio	1	0
Fullerton, California	1	0
Highland, Illinois	1	0
LaPorte, Indiana	1	0
Louisville, Kentucky	1	0
Lynn, Massachusetts & Everett, Massachusetts	1	0
Massillon, Ohio	1	0
New Haven, Connecticut	1	0
Oshkosh, Wisconsin	1	0
Pontiac, Michigan	1	0
Port Huron, Michigan	1	0
Roseville, Michigan	1	0
South Bend, Indiana	1	0
St Marys, Ohio	1	0
St Paul, Minnesota	1	0
Troy, New York	1	0
Watertown, New York	1	0

Table 7: Number of 1-Strike Cities

num_cities_once
65