Dataset Simulation

Humphrey

2022-07-17

Section 1. Simulate SV 1849 and 1854

SV1849

```
SV1849<-SV_func(mean_deaths = 120, sd_deaths = 50, n = 20, year = 1849, mean_pop = 8045,sd_pop = 1000)
write.csv(SV1849, paste(here::here(), "SV1849.csv", sep = "/"), row.names = FALSE)
head(SV1849)
##
     deaths district_code year population
## 1
         89
                     SV_1 1849
                                      9854
## 2
        129
                     SV 2 1849
                                     10117
## 3
                     SV 3 1849
        78
                                      8900
## 4
        200
                     SV 4 1849
                                      8056
                     SV 5 1849
## 5
        136
                                     10025
## 6
         79
                     SV_6 1849
                                      8779
```

SV1854

```
SV1854<-SV_func(mean_deaths = 60, sd_deaths = 50, n = 20, year = 1854, mean_pop = 8045,sd_pop = 1000)
write.csv(SV1854, paste(here::here(), "SV1854.csv", sep = "/"), row.names = FALSE)
head(SV1854)

## deaths district_code year population
```

```
52
## 1
                      SV_1 1854
                                      10967
## 2
         47
                      SV 2 1854
                                       8476
## 3
         95
                      SV_3 1854
                                       9685
## 4
         88
                      SV_4 1854
                                       8953
## 5
         26
                      SV_5 1854
                                       7562
```

6 25 SV_6 1854 8484

Section 2. Simulate Lam 1849 and 1854

Lam1849

```
Lam1849<-Lam_func(mean_deaths = 200, sd_deaths = 50, n = 20, year = 1849, mean_pop = 9045,sd_pop = 1200
write.csv(Lam1849, paste(here::here(), "Lam1849.csv", sep = "/"), row.names = FALSE)
head(Lam1849)

## deaths district_code year population
## 1 169    Lambeth_1 1849    12683</pre>
```

```
## 2
        209
                Lambeth_2 1849
                                      13119
## 3
        158
                Lambeth_3 1849
                                      11504
## 4
        280
                Lambeth_4 1849
                                      10858
## 5
        216
                Lambeth_5 1849
                                      13029
## 6
        159
                Lambeth_6 1849
                                      11363
```

Lam1854

```
Lam1854<-Lam_func(mean_deaths = 40, sd_deaths = 50, n = 20, year = 1854, mean_pop = 9045,sd_pop = 1200) write.csv(Lam1854, paste(here::here(), "Lam1854.csv", sep = "/"), row.names = FALSE) head(Lam1854)
```

```
deaths district_code year population
##
## 1
         32
                Lambeth_1 1854
                                     12407
                Lambeth_2 1854
## 2
         27
                                      9403
         75
## 3
                Lambeth_3 1854
                                     10998
## 4
         68
                Lambeth_4 1854
                                     10099
## 5
          6
                Lambeth_5 1854
                                      8243
                Lambeth 6 1854
## 6
          5
                                      9347
```