hw1

Warlon Zeng 9/28/2016

Data Exploration, Qualitative statistics and Missing Data

```
df <- read.csv("data.txt")
summary(df)</pre>
```

```
United.States
                                            Alabama
                                                                Alaska
##
            Date
    2003-09-28:
                 1
                     Min.
                             :
                                576.0
                                        Min.
                                                : 353.0
                                                           Min.
                                                                   : 538
    2003-10-05:
                      1st Qu.:
                                947.8
                                        1st Qu.: 647.2
                                                           1st Qu.: 908
##
    2003-10-12:
                     Median: 1497.0
                                        Median: 1187.0
##
                                                           Median:1297
##
    2003-10-19:
                     Mean
                             : 1843.4
                                        Mean
                                                : 1814.6
                                                           Mean
                                                                   :1619
##
    2003-10-26:
                      3rd Qu.: 2169.2
                                        3rd Qu.: 1999.2
                                                           3rd Qu.:1896
##
    2003-11-02:
                             :10555.0
                                        Max.
                                                :13854.0
                                                           Max.
                1
                     Max.
                                                                   :7384
                                                           NA's
##
    (Other)
              :614
                                                                   :63
                                                         Colorado
##
       Arizona
                        Arkansas
                                        California
##
    Min.
           : 469
                    Min.
                           : 813
                                     Min.
                                           : 538
                                                      Min.
                                                             : 163.0
##
    1st Qu.: 974
                     1st Qu.: 1438
                                     1st Qu.: 1038
                                                      1st Qu.: 362.0
    Median: 1676
                    Median: 2342
                                     Median: 1622
##
                                                      Median: 633.0
           : 2188
                    Mean
                           : 3201
                                     Mean
                                             : 2006
                                                      Mean
                                                              : 916.9
                    3rd Qu.: 3556
##
    3rd Qu.: 2477
                                     3rd Qu.: 2300
                                                      3rd Qu.:1023.8
##
    Max.
           :20199
                    Max.
                            :24355
                                     Max.
                                             :16326
                                                      Max.
                                                              :9019.0
                    NA's
##
                            :58
##
     Connecticut
                          Delaware
                                       District.of.Columbia
                                                                Florida
                             : 882
                                                                   : 399
##
    Min. :
              186.0
                      Min.
                                       Min.
                                               : 733
                                                             Min.
    1st Qu.:
              368.2
                       1st Qu.: 1360
                                       1st Qu.:1146
                                                             1st Qu.: 704
##
##
    Median :
              669.5
                      Median: 1954
                                       Median:1721
                                                             Median:1118
    Mean
          : 990.8
                       Mean
                             : 2206
                                       Mean
                                               :2014
                                                             Mean
                                                                   :1319
    3rd Qu.: 1091.8
                       3rd Qu.: 2472
                                        3rd Qu.:2380
                                                             3rd Qu.:1552
##
          :17101.0
##
    Max.
                       Max.
                              :13563
                                       Max.
                                               :9005
                                                             Max.
                                                                     :6884
##
                       NA's
                              :109
                           Hawaii
##
       Georgia
                                            Idaho
                                                           Illinois
             351.0
##
    Min.
                       Min.
                              : 885
                                       Min.
                                               :
                                                  433
                                                        Min.
                                                                : 415
##
    1st Qu.: 670.5
                       1st Qu.: 1472
                                       1st Qu.:
                                                  826
                                                        1st Qu.: 757
    Median: 1117.5
                       Median: 1900
                                       Median: 1224
                                                        Median: 1211
           : 1580.1
                              : 2232
##
    Mean
                       Mean
                                       Mean
                                               : 1701
                                                        Mean
                                                                : 1585
    3rd Qu.: 1833.2
                       3rd Qu.: 2482
                                        3rd Qu.: 1876
                                                        3rd Qu.: 1836
##
    Max.
           :10380.0
                       Max.
                              :10816
                                       Max.
                                               :15642
                                                        Max.
                                                                :11964
##
                       NA's
                              :5
                                       NA's
                                               :59
##
       Indiana
                            Iowa
                                            Kansas
                                                             Kentucky
##
    Min.
           : 418.0
                              : 235.0
                                                : 218.0
                                                                  : 348.0
                      Min.
                                        Min.
                                                          Min.
##
    1st Qu.: 772.8
                       1st Qu.: 426.0
                                        1st Qu.: 390.0
                                                          1st Qu.: 667.8
    Median: 1195.5
                       Median : 740.5
                                        Median : 631.0
                                                          Median: 1181.0
   Mean
          : 1604.6
                      Mean
                              :1083.4
                                        Mean
                                                : 996.2
                                                          Mean : 1762.3
```

```
3rd Qu.: 1793.2
                    3rd Qu.:1121.8
                                     3rd Qu.:1069.0
                                                     3rd Qu.: 1955.8
##
   Max. :10815.0
                    Max. :9737.0
                                     Max. :9963.0
                                                     Max.
                                                          :13952.0
##
##
     Louisiana
                                       Maryland
                                                   Massachusetts
                      Maine
##
   Min. : 861
                   Min. : 221.0
                                    Min. : 817
                                                   Min. : 135.0
   1st Qu.: 1441
##
                   1st Qu.: 406.0
                                    1st Qu.: 1311
                                                   1st Qu.: 368.5
   Median: 2286
                   Median: 717.0
                                    Median: 1916
                                                   Median: 716.0
   Mean : 3081
                                    Mean : 2236
                   Mean : 991.6
                                                   Mean : 1009.1
##
   3rd Qu.: 3724
                   3rd Qu.: 1050.0
                                    3rd Qu.: 2548
                                                   3rd Qu.: 1143.8
##
   Max. :20084
                   Max. :11507.0
                                    Max. :13800
                                                   Max. :15197.0
##
                   NA's
                         :57
##
      Michigan
                   Minnesota
                                  Mississippi
                                                   Missouri
##
   Min. : 427
                  Min. : 419
                                 Min. : 418
                                                Min. : 248.0
##
   1st Qu.: 736
                  1st Qu.: 704
                                 1st Qu.: 732
                                                1st Qu.: 437.0
   Median:1270
                  Median: 1249
                                 Median: 1325
                                                Median : 707.5
##
   Mean :1574
                  Mean : 1692
                                 Mean : 1998
                                                Mean :1026.4
##
   3rd Qu.:1827
                  3rd Qu.: 1883
                                 3rd Qu.: 2297
                                                3rd Qu.:1136.5
##
   Max.
          :9607
                  Max. :18749
                                 Max.
                                        :16749
                                                Max.
                                                       :7870.0
##
                                 NA's
                                        :61
##
      Montana
                      Nebraska
                                         Nevada
                                                      New.Hampshire
##
   Min. : 230.0
                    Min. : 270.0
                                     Min. : 478.0
                                                      Min. : 191.0
   1st Qu.: 428.0
                    1st Qu.: 451.8
                                     1st Qu.: 968.2
                                                      1st Qu.: 391.5
   Median : 669.0
                    Median : 744.0
                                     Median : 1551.0
                                                      Median: 688.0
##
   Mean : 942.3
                    Mean : 1121.5
                                     Mean : 1954.9
                                                      Mean : 1032.9
##
   3rd Qu.:1010.0
                    3rd Qu.: 1186.5
                                     3rd Qu.: 2256.8
                                                      3rd Qu.: 1084.5
   Max. :9656.0
                    Max. :10691.0
                                     Max. :14022.0
                                                      Max.
                                                             :14897.0
##
   NA's
          :113
                    NA's
                         :6
                                     NA's
                                          :8
                                                      NA's
     New.Jersey
                      New.Mexico
                                       New.York
                                                   North.Carolina
##
##
   Min. : 385.0
                    Min. : 812
                                    Min. : 369
                                                   Min. : 343.0
                                                   1st Qu.: 659.8
   1st Qu.: 732.8
                    1st Qu.: 1407
                                    1st Qu.: 742
   Median: 1194.0
                                    Median: 1250
##
                    Median: 2158
                                                   Median: 1140.5
##
   Mean : 1650.0
                    Mean : 2497
                                    Mean : 1626
                                                   Mean : 1657.3
##
   3rd Qu.: 1874.8
                     3rd Qu.: 2857
                                    3rd Qu.: 1954
                                                   3rd Qu.: 1823.0
##
   Max. :20896.0
                    Max. :13421
                                    Max.
                                          :13046
                                                   Max.
                                                         :11819.0
                     NA's
##
                           :55
    North.Dakota
                                                     Oregon
##
                       Ohio
                                     Oklahoma
##
   Min. : 291
                   Min. : 392
                                  Min. : 702
                                                 Min. : 372.0
##
   1st Qu.: 516
                   1st Qu.: 721
                                  1st Qu.: 1393
                                                 1st Qu.: 745.2
   Median: 815
                                                 Median: 1202.0
##
                   Median: 1188
                                  Median: 2229
##
   Mean : 1260
                   Mean : 1563
                                  Mean : 3209
                                                 Mean : 1620.9
   3rd Qu.: 1225
                   3rd Qu.: 1817
                                  3rd Qu.: 3489
                                                 3rd Qu.: 1882.0
##
   Max. :11887
                   Max. :11500
                                  Max. :24586
                                                 Max. :13615.0
   NA's
          :163
##
##
    Pennsylvania
                    Rhode.Island
                                    South.Carolina
                                                      South.Dakota
   Min. : 829
                                    Min. : 337.0
                   Min. : 193.0
                                                     Min. : 268
   1st Qu.: 1255
                                    1st Qu.: 636.5
                   1st Qu.: 397.5
##
                                                     1st Qu.: 486
                                    Median: 1146.5
   Median: 1881
                   Median: 699.5
                                                     Median: 800
##
   Mean : 2178
                   Mean : 1015.3
                                    Mean : 1689.3
                                                     Mean : 1332
   3rd Qu.: 2537
                   3rd Qu.: 1089.0
                                    3rd Qu.: 1828.2
                                                     3rd Qu.: 1396
                   Max. :12743.0
##
   Max. :12143
                                    Max. :14142.0
                                                     Max. :10982
##
                   NA's
                         :56
                                                     NA's
                                                            :162
##
     Tennessee
                        Texas
                                         Utah
                                                       Vermont
   Min. : 365.0
                    Min. : 804
                                    Min.
                                          : 225.0
                                                    Min. :
                                                              249
   1st Qu.: 658.8
                    1st Qu.: 1450
                                    1st Qu.: 396.0
                                                    1st Qu.: 447
```

```
## Median : 1155.0
                    Median: 2290
                                   Median : 619.0
                                                   Median: 737
                    Mean : 2894
                                   Mean : 846.2
## Mean : 1783.0
                                                   Mean : 1039
                    3rd Qu.: 3342
## 3rd Qu.: 1956.0
                                   3rd Qu.: 921.5
                                                   3rd Qu.: 1096
                    Max. :18590
## Max. :13591.0
                                   Max.
                                         :6896.0
                                                   Max.
                                                          :11557
##
                                   NA's
                                         :6
                                                   NA's
                                                          :109
##
      Virginia
                    Washington
                                   West.Virginia
                                                    Wisconsin
   Min. : 681
                  Min. : 420.0
                                                  Min. : 394.0
                                   Min. : 904
   1st Qu.: 1275
                  1st Qu.: 779.8
                                   1st Qu.: 1436
                                                  1st Qu.: 683.2
##
## Median : 1879
                  Median: 1324.5
                                   Median: 2122
                                                  Median: 1196.5
## Mean : 2214
                  Mean : 1737.4
                                   Mean : 2465
                                                  Mean : 1582.2
   3rd Qu.: 2578
                  3rd Qu.: 2027.5
                                   3rd Qu.: 2728
                                                  3rd Qu.: 1819.2
##
  Max. :10590
                  Max. :13388.0
                                         :13412
                                                  Max. :16065.0
                                   Max.
##
                                   NA's
                                          :60
##
      Wyoming
                   HHS.Region.1..CT..ME..MA..NH..RI..VT.
## Min. : 304.0
                   Min. : 149.0
##
  1st Qu.: 470.2
                   1st Qu.: 361.5
## Median : 697.5
                   Median: 682.5
## Mean :1046.4
                   Mean : 986.4
## 3rd Qu.:1016.5
                   3rd Qu.: 1115.0
## Max.
        :8110.0
                   Max. :14211.0
## NA's
          :218
## HHS.Region.2..NJ..NY. HHS.Region.3..DE..DC..MD..PA..VA..WV.
## Min. : 338.0
                        Min. : 615
                        1st Qu.: 1187
## 1st Qu.: 712.8
## Median : 1314.5
                        Median: 1778
## Mean : 1656.0
                        Mean : 2117
## 3rd Qu.: 1943.0
                        3rd Qu.: 2493
## Max. :12969.0
                        Max. :10769
##
## HHS.Region.4..AL..FL..GA..KY..MS..NC..SC..TN.
## Min. : 330
## 1st Qu.: 643
## Median :1104
## Mean :1497
##
   3rd Qu.:1706
## Max. :9582
##
## HHS.Region.5..IL..IN..MI..MN..OH..WI. HHS.Region.6..AR..LA..NM..OK..TX.
## Min. : 237.0
                                       Min. : 732
## 1st Qu.: 708.8
                                       1st Qu.: 1385
## Median: 1174.5
                                       Median: 2203
## Mean : 1526.7
                                       Mean : 2867
   3rd Qu.: 1806.5
                                       3rd Qu.: 3318
##
## Max. :10544.0
                                       Max.
                                             :17808
## HHS.Region.7..IA..KS..MO..NE. HHS.Region.8..CO..MT..ND..SD..UT..WY.
## Min. : -78
                                Min.
                                     : 138.0
## 1st Qu.: 407
                                1st Qu.: 354.8
## Median : 684
                               Median : 647.5
## Mean :1033
                                Mean : 898.0
## 3rd Qu.:1114
                                3rd Qu.: 993.2
## Max. :9711
                               Max.
                                     :7698.0
##
## HHS.Region.9..AZ..CA..HI..NV. HHS.Region.10..AK..ID..OR..WA.
```

```
Min. : 412
                                Min. : 10.0
##
   1st Qu.: 994
                                1st Qu.: 691.8
   Median: 1579
                                Median: 1179.0
   Mean : 1927
                                Mean : 1589.2
##
##
   3rd Qu.: 2228
                                3rd Qu.: 1868.5
##
   Max. :14864
                                Max.
                                     :11703.0
##
##
   Anchorage..AK Birmingham..AL
                                   Little.Rock..AR
                                                     Mesa..AZ
                  Min. : 376.0
##
   Min. : 547
                                   Min.
                                        : 1029
                                                  Min. : 642
##
   1st Qu.: 938
                  1st Qu.: 670.2
                                   1st Qu.: 1574
                                                  1st Qu.: 1152
   Median:1403
                  Median: 1235.0
                                   Median: 2425
                                                  Median: 1834
##
                  Mean : 1900.5
                                        : 3220
                                                        : 2345
   Mean :1683
                                   Mean
                                                  Mean
##
   3rd Qu.:2010
                  3rd Qu.: 2030.8
                                   3rd Qu.: 3596
                                                  3rd Qu.: 2780
##
   Max.
         :7566
                                        :20651
                  Max. :13456.0
                                   Max.
                                                  Max. :18968
##
   NA's
          :55
                                   NA's
                                          :53
                                                  NA's
                                                        :58
##
    Phoenix..AZ
                     Scottsdale..AZ
                                      Tempe..AZ
                                                       Tucson..AZ
##
   Min. : 440.0
                     Min. : 650
                                    Min. : 503.0
                                                     Min. : 564
   1st Qu.: 913.2
                     1st Qu.: 1049
                                    1st Qu.: 971.5
                                                     1st Qu.: 1065
   Median: 1579.5
                     Median: 1809
                                    Median : 1706.5
                                                     Median : 1730
##
   Mean : 2102.9
                     Mean : 2285
                                    Mean : 2158.2
                                                     Mean : 2216
##
   3rd Qu.: 2374.5
                     3rd Qu.: 2679
                                    3rd Qu.: 2441.5
                                                     3rd Qu.: 2445
##
   Max. :21643.0
                     Max. :19566
                                    Max. :16468.0
                                                     Max. :17611
                     NA's :56
##
##
    Berkeley..CA
                     Fresno..CA
                                    Irvine..CA
                                                  Los.Angeles..CA
##
  Min. : 748
                   Min. : 617
                                  Min. : 665
                                                  Min. : 489
   1st Qu.: 1291
                   1st Qu.: 1051
                                  1st Qu.: 1130
                                                  1st Qu.: 1038
##
   Median: 1837
                   Median: 1553
                                  Median: 1656
                                                  Median: 1562
   Mean : 2230
                   Mean : 1994
                                  Mean : 2019
                                                  Mean : 1980
##
   3rd Qu.: 2546
                   3rd Qu.: 2206
                                  3rd Qu.: 2314
                                                  3rd Qu.: 2256
##
   Max.
          :13953
                   Max.
                         :13928
                                  Max.
                                        :16201
                                                  Max. :18474
##
   NA's
          :51
                   NA's
                         :10
                                  NA's
                                        :53
##
    Oakland..CA
                   Sacramento..CA
                                    San.Diego..CA
                                                      San.Francisco..CA
   Min.
         : 529
                   Min. : 436.0
                                    Min. : 516.0
                                                     Min. : 452
                   1st Qu.: 981.8
   1st Qu.: 1043
                                    1st Qu.: 992.5
                                                     1st Qu.: 1093
##
   Median: 1786
                   Median: 1634.0
                                    Median: 1537.5
                                                     Median: 1734
##
   Mean
         : 2367
                   Mean : 1994.3
                                                     Mean : 2219
                                    Mean : 1988.2
   3rd Qu.: 2838
                   3rd Qu.: 2457.5
                                    3rd Qu.: 2171.8
                                                      3rd Qu.: 2626
##
   Max. :17974
                   Max.
                         :15563.0
                                    Max.
                                          :19053.0
                                                     Max.
                                                            :17243
##
##
    San.Jose..CA
                     Santa.Clara..CA Sunnyvale..CA
                                                   Colorado.Springs..CO
   Min. : 450.0
                     Min. : 313
                                    Min. : 566
                                                   Min. : 217.0
##
   1st Qu.: 976.8
                     1st Qu.: 911
                                    1st Qu.: 1126
                                                   1st Qu.: 395.0
   Median: 1633.0
                     Median: 1646
                                                   Median: 667.0
                                    Median: 1664
##
   Mean : 2066.4
                     Mean : 1907
                                    Mean : 2194
                                                   Mean : 915.4
   3rd Qu.: 2576.5
                     3rd Qu.: 2368
                                    3rd Qu.: 2587
                                                    3rd Qu.:1050.0
   Max.
         :16422.0
                                          :20836
##
                     Max. :14285
                                    Max.
                                                   Max.
                                                          :8480.0
##
                                                   NA's
                                                          :51
##
     Denver..CO
                    Washington..DC Gainesville..FL Jacksonville..FL
  Min. : 147.0
                    Min. : 733
                                  Min. : 531
                                                  Min. : 413
   1st Qu.: 366.0
##
                    1st Qu.:1144
                                  1st Qu.: 875
                                                  1st Qu.: 689
##
   Median : 650.0
                    Median :1714
                                  Median:1340
                                                  Median:1107
##
   Mean : 937.9
                    Mean :2016
                                  Mean :1616
                                                  Mean :1369
   3rd Qu.:1022.2
##
                    3rd Qu.:2411
                                  3rd Qu.:1944
                                                  3rd Qu.:1618
## Max. :9955.0
                    Max. :8980
                                  Max.
                                        :6900
                                                  Max. :8300
```

```
##
                                   NA's :2
                                                   NA's :53
##
     Miami..FL
                     Orlando..FL
                                     Tampa..FL
                                                   Atlanta..GA
   Min. : 370.0
                    Min. : 382
##
                                   Min. : 364
                                                  Min.
                                                       : 324
   1st Qu.: 683.8
                    1st Qu.: 670
                                   1st Qu.: 642
                                                  1st Qu.: 643
   Median :1058.0
                    Median:1159
                                   Median:1072
                                                  Median: 1074
##
   Mean
         :1254.0
                          :1378
                                   Mean
                                         :1287
                                                  Mean
                                                       : 1600
                    Mean
   3rd Qu.:1523.0
                    3rd Qu.:1736
                                   3rd Qu.:1516
                                                  3rd Qu.: 1876
   Max.
         :7241.0
                          :7883
                                          :8642
                                                  Max.
                                                         :11499
##
                    Max.
                                   Max.
##
##
    Roswell..GA
                    Honolulu..HI
                                   Des.Moines..IA
                                                    Boise..ID
   Min. : 403
                   Min. : 794
                                   Min.
                                         : 295
                                                  Min. : 533
   1st Qu.: 739
                   1st Qu.: 1410
                                   1st Qu.: 486
                                                  1st Qu.: 895
##
                   Median: 1836
##
   Median: 1240
                                   Median: 806
                                                  Median: 1418
##
         : 1661
                   Mean
                                                       : 1806
   Mean
                        : 2164
                                   Mean
                                         :1150
                                                  Mean
##
   3rd Qu.: 1903
                   3rd Qu.: 2358
                                   3rd Qu.:1203
                                                  3rd Qu.: 1954
##
   Max.
          :10444
                   Max. :11581
                                   Max.
                                          :9508
                                                  Max.
                                                         :15295
##
   NA's
          :8
                                   NA's
                                          :55
                                                  NA's
                                                         :53
##
    Chicago..IL
                   Indianapolis..IN
                                    Wichita..KS
                                                     Lexington..KY
##
                   Min. : 417
                                    Min. : 229.0
                                                    Min. : 441.0
   Min. : 390
                   1st Qu.: 813
                                    1st Qu.: 417.5
                                                     1st Qu.: 801.2
##
   1st Qu.: 775
##
   Median: 1233
                   Median: 1230
                                    Median : 670.0
                                                    Median: 1366.5
   Mean : 1584
                   Mean : 1635
                                    Mean : 983.7
                                                     Mean : 1970.9
   3rd Qu.: 1866
                                                     3rd Qu.: 2260.8
##
                   3rd Qu.: 1733
                                    3rd Qu.:1005.5
   Max. :12324
                   Max. :11712
                                    Max.
                                           :8621.0
                                                     Max.
                                                           :14647.0
##
##
                                    NA's
                                           :52
                                                     NA's
                                                            :52
   Baton.Rouge..LA New.Orleans..LA
                                     Boston..MA
                                                     Somerville..MA
##
   Min. : 962
                   Min. : 856
                                   Min. : 161.0
                                                     Min. : 170.0
   1st Qu.: 1639
                   1st Qu.: 1468
                                   1st Qu.: 366.8
                                                     1st Qu.: 583.0
##
##
   Median: 2556
                   Median: 2202
                                   Median: 714.5
                                                     Median: 937.5
   Mean : 3182
                   Mean : 2844
                                   Mean
                                        : 980.1
                                                     Mean : 1166.1
                   3rd Qu.: 3424
                                                     3rd Qu.: 1334.0
##
   3rd Qu.: 3934
                                   3rd Qu.: 1150.2
##
   Max.
          :15006
                   Max.
                         :17543
                                   Max.
                                         :10420.0
                                                     Max.
                                                           :14356.0
          :52
##
   NA's
   Baltimore..MD
                   Grand.Rapids..MI
                                      St.Paul..MN
                                                     Kansas.City..MO
##
##
   Min. : 859
                   Min. : 441.0
                                     Min. : 379
                                                     Min. : 271
##
   1st Qu.: 1368
                   1st Qu.: 771.5
                                     1st Qu.: 708
                                                     1st Qu.: 433
   Median: 1966
                   Median: 1248.0
                                     Median: 1210
                                                     Median: 726
##
   Mean : 2270
                   Mean : 1576.5
                                     Mean : 1613
                                                     Mean :1027
##
   3rd Qu.: 2606
                   3rd Qu.: 1764.5
                                     3rd Qu.: 1804
                                                     3rd Qu.:1110
##
   Max. :11010
                   Max.
                          :12997.0
                                     Max. :15942
                                                     Max. :7262
##
                   NA's
                          :53
##
   Springfield..MO
                   St.Louis..MO
                                     Jackson..MS
                                                      Cary..NC
                   Min. : 238.0
##
   Min.
         : 327
                                    Min. : 481
                                                    Min. : 498.0
##
   1st Qu.: 496
                   1st Qu.: 465.8
                                    1st Qu.: 835
                                                    1st Qu.: 834.8
   Median: 824
                   Median: 722.5
                                    Median: 1467
                                                    Median: 1406.5
   Mean : 1174
                                    Mean : 2160
##
                   Mean
                          :1043.0
                                                    Mean : 1907.3
##
   3rd Qu.: 1192
                   3rd Qu.:1104.0
                                    3rd Qu.: 2635
                                                    3rd Qu.: 2121.2
##
   Max.
          :11212
                   Max.
                          :7300.0
                                                          :12735.0
                                    Max.
                                           :21141
                                                    Max.
   NA's
          :109
                                    NA's
                                           :59
                                                    NA's
                                                          :52
##
   Charlotte..NC
                    Durham..NC
                                    Greensboro..NC
                                                    Raleigh..NC
##
          : 331
                                         : 463
   Min.
                  Min. : 458.0
                                    Min.
                                                    Min.
                                                         : 322.0
                                    1st Qu.: 752
                                                    1st Qu.: 663.8
   1st Qu.: 645
                  1st Qu.: 748.5
   Median:1092
                  Median: 1316.0
                                    Median: 1164
                                                    Median: 1137.5
## Mean :1595
                  Mean : 1711.8
                                    Mean : 1645
                                                    Mean : 1670.9
```

```
3rd Qu.:1787
                  3rd Qu.: 1843.0
                                    3rd Qu.: 1793
                                                   3rd Qu.: 1867.5
##
   Max. :9912
                  Max. :16359.0
                                    Max.
                                          :11609
                                                   Max. :15177.0
##
                                    NA's
                                           :59
                                        Newark..NJ
##
    Lincoln..NE
                       Omaha..NE
                                                        Albuquerque..NM
##
   Min. : 309.0
                     Min. : 278.0
                                      Min. : 333.0
                                                        Min. : 906
##
   1st Qu.: 490.5
                     1st Qu.: 467.0
                                       1st Qu.: 696.5
                                                        1st Qu.: 1406
   Median: 746.0
                     Median: 783.5
                                      Median: 1128.5
                                                        Median: 2166
   Mean : 1100.6
                                                        Mean : 2599
                     Mean : 1175.6
                                      Mean : 1398.3
##
##
   3rd Qu.: 1080.0
                     3rd Qu.: 1243.0
                                       3rd Qu.: 1578.0
                                                        3rd Qu.: 2941
##
   Max.
          :10423.0
                     Max. :10377.0
                                      Max. :14930.0
                                                        Max.
                                                              :12229
   NA's
          :57
                                                        NA's
                                                               :2
##
   Las. Vegas..NV
                        Reno..NV
                                       Albany..NY
                                                       Buffalo..NY
##
   Min.
         : 460.0
                     Min. : 649
                                     Min.
                                           : 403.0
                                                      Min.
                                                            : 449
##
   1st Qu.: 928.2
                     1st Qu.: 1119
                                     1st Qu.: 857.2
                                                      1st Qu.: 701
##
   Median: 1459.0
                     Median: 1775
                                     Median: 1480.0
                                                      Median: 1242
##
   Mean : 1861.6
                     Mean : 2126
                                     Mean : 1968.0
                                                      Mean : 1592
##
   3rd Qu.: 2158.2
                     3rd Qu.: 2436
                                     3rd Qu.: 2145.2
                                                      3rd Qu.: 1775
##
   Max. :15824.0
                     Max. :12645
                                     Max. :19091.0
                                                      Max.
                                                            :13962
##
                     NA's
                           :56
                                                      NA's
                                                            :3
                   Rochester..NY
##
    New.York..NY
                                     Cleveland..OH
                                                       Columbus..OH
                                           : 450.0
##
   Min. : 288
                   Min. : 355.0
                                     Min.
                                                      Min. : 415
   1st Qu.: 753
                   1st Qu.: 719.8
                                     1st Qu.: 745.8
                                                      1st Qu.: 711
   Median: 1230
                   Median: 1242.5
                                     Median: 1196.5
##
                                                      Median: 1194
   Mean : 1549
                   Mean : 1680.0
                                     Mean : 1493.0
                                                      Mean : 1581
##
   3rd Qu.: 1870
##
                   3rd Qu.: 1860.2
                                     3rd Qu.: 1689.8
                                                      3rd Qu.: 1800
   Max. :12690
                   Max. :13758.0
                                     Max. :11940.0
                                                      Max. :11168
##
##
     Dayton..OH
                   Oklahoma.City..OK
                                       Tulsa..OK
                                                    Beaverton..OR
##
   Min. : 430
                   Min.
                        : 788
                                     Min.
                                                    Min. : 487
                                           : 820
                                                    1st Qu.: 897
   1st Qu.: 762
                   1st Qu.: 1438
                                     1st Qu.: 1403
   Median: 1160
                                     Median: 2229
##
                   Median: 2336
                                                    Median: 1444
##
   Mean : 1574
                   Mean : 3255
                                     Mean : 3123
                                                    Mean : 1880
                   3rd Qu.: 3550
##
   3rd Qu.: 1763
                                     3rd Qu.: 3400
                                                    3rd Qu.: 2195
##
   Max.
          :11730
                          :21146
                                     Max.
                                           :23491
                                                    Max.
                                                          :12753
                   Max.
##
   NA's
          :8
                                                    NA's
                                                           :11
##
     Eugene..OR
                    Portland..OR
                                   Philadelphia..PA Pittsburgh..PA
##
   Min.
          : 500
                   Min. : 395
                                   Min. : 783
                                                   Min. : 802
##
   1st Qu.: 928
                   1st Qu.: 746
                                   1st Qu.: 1260
                                                   1st Qu.: 1272
                   Median: 1312
##
   Median: 1413
                                   Median: 1867
                                                   Median: 1899
##
   Mean : 1869
                   Mean : 1705
                                   Mean : 2144
                                                   Mean : 2188
   3rd Qu.: 2121
                   3rd Qu.: 1965
                                   3rd Qu.: 2510
                                                   3rd Qu.: 2502
##
   Max.
          :17198
                   Max. :12997
                                   Max. :11127
                                                   Max. :10444
   NA's
          :55
##
   State.College..PA Providence..RI
                                       Columbia..SC
                                                       Greenville..SC
          :1210
                                            : 427.0
                                                       Min.
                     Min.
                           : 251.0
                                      Min.
                                                             : 450
   1st Qu.:1626
                     1st Qu.: 434.0
                                      1st Qu.: 784.2
                                                       1st Qu.: 770
##
                     Median: 722.0
##
   Median:2144
                                      Median: 1309.5
                                                       Median: 1231
##
   Mean
         :2391
                     Mean : 971.1
                                           : 1784.9
                                                             : 1850
                                      Mean
                                                       Mean
   3rd Qu.:2614
                     3rd Qu.:1097.0
                                      3rd Qu.: 2017.0
                                                       3rd Qu.: 2009
                          :9299.0
##
   Max.
          :9654
                     Max.
                                      Max.
                                            :15543.0
                                                       Max.
                                                              :11381
##
   NA's
          :49
                     NA's
                            :55
                                      NA's
                                             :54
                                                       NA's
                                                              :56
                    Memphis..TN
##
   Knoxville..TN
                                   Nashville..TN
                                                      Austin..TX
   Min. : 404
                   Min. : 440
                                   Min. : 390.0
                                                    Min. : 760
   1st Qu.: 744
                   1st Qu.: 691
                                   1st Qu.: 669.5
                                                    1st Qu.: 1486
```

```
Median: 1309
                   Median: 1167
                                  Median : 1205.5
                                                    Median: 2401
                                                    Mean : 3064
##
   Mean : 1896
                   Mean : 1582
                                  Mean : 1741.3
   3rd Qu.: 2046
                   3rd Qu.: 1817
                                   3rd Qu.: 1962.8
                                                    3rd Qu.: 3534
                   Max. :11307
                                  Max. :15405.0
                                                    Max. :17514
##
   Max.
          :19115
##
   NA's
          :53
                   NA's
                         :56
##
     Dallas..TX
                    Ft.Worth..TX
                                                    Irving..TX
                                   Houston..TX
   Min. : 766
                   Min. : 824
                                  Min. : 812
                                                  Min. : 909
   1st Qu.: 1430
                                   1st Qu.: 1417
                                                  1st Qu.: 1461
                   1st Qu.: 1452
##
##
   Median: 2252
                   Median: 2289
                                  Median: 2180
                                                  Median: 2311
                   Mean : 2989
##
   Mean : 3097
                                  Mean : 2657
                                                  Mean : 2919
   3rd Qu.: 3630
                   3rd Qu.: 3426
                                   3rd Qu.: 3213
                                                  3rd Qu.: 3340
##
   Max. :21728
                         :22805
                                  Max. :12069
                                                  Max. :18097
                   {\tt Max.}
##
                   NA's
                          :53
    Lubbock..TX
##
                     Plano..TX
                                  San.Antonio..TX Salt.Lake.City..UT
##
   Min.
         : 1237
                        : 1034
                                  Min. : 786
                                                  Min. : 198.0
                   Min.
##
   1st Qu.: 1783
                   1st Qu.: 1724
                                   1st Qu.: 1386
                                                  1st Qu.: 386.8
##
   Median: 2583
                   Median: 2476
                                  Median: 2125
                                                  Median : 630.0
   Mean : 3423
                   Mean : 3212
                                  Mean : 2743
                                                  Mean : 848.3
                                  3rd Qu.: 3147
                                                  3rd Qu.: 965.0
   3rd Qu.: 3762
                   3rd Qu.: 3570
##
##
   Max.
         :18165
                   Max. :21387
                                  Max. :18665
                                                  Max. :6757.0
                         :107
##
   NA's
          :55
                   NA's
   Arlington..VA
                    Norfolk..VA
                                    Reston..VA
                                                  Richmond..VA
   Min. : 818
                   Min. : 675
                                  Min. : 935
                                                 Min. : 850
##
   1st Qu.: 1268
                   1st Qu.: 1214
                                  1st Qu.:1462
                                                 1st Qu.: 1286
##
##
                   Median: 1928
                                  Median:2036
                                                 Median: 1996
   Median: 1854
   Mean : 2125
                   Mean : 2128
                                  Mean :2258
                                                 Mean : 2439
##
   3rd Qu.: 2427
                   3rd Qu.: 2359
                                   3rd Qu.:2606
                                                 3rd Qu.: 2812
   Max. :10220
                   Max. :12755
                                  Max. :9106
                                                 Max. :13086
##
##
                                  NA's
                                         :61
    Bellevue..WA
                    Seattle..WA
                                     Spokane..WA
                                                     Madison..WI
   Min. : 488
                                    Min. : 495
                                                    Min. : 398
##
                   Min. : 399.0
##
   1st Qu.: 833
                   1st Qu.: 807.8
                                    1st Qu.: 884
                                                    1st Qu.: 787
   Median: 1280
                   Median: 1347.5
                                    Median: 1355
                                                    Median: 1294
   Mean : 1727
                   Mean : 1792.8
                                                    Mean : 1614
##
                                    Mean : 1803
##
   3rd Qu.: 2011
                   3rd Qu.: 2181.0
                                    3rd Qu.: 2019
                                                    3rd Qu.: 1882
##
   Max.
         :12103
                   Max. :12060.0
                                    Max.
                                           :13251
                                                    Max. :11855
##
   NA's
         :9
                                    NA's
                                           :68
##
   Milwaukee..WI
##
   Min. : 352.0
##
   1st Qu.: 670.8
   Median: 1171.5
##
   Mean : 1418.6
   3rd Qu.: 1643.5
##
   Max. :10446.0
##
```