

# Group exercise 2: Analysing spatial data

DATA5207: Data Analysis in the Social Sciences

Emily and Sarah

## Introduction

We will be examining the relationship between opiate drug prescriptions and poverty (your independent variables), and mortality caused by drugs and alcohol using the methods covered in this lab, and previously in this unit. The spatial aspect of this is that we are going to use county-level data sourced from the \*US Census Bureau\* and the \*Centers for Disease Control and Prevention (CDC)\*.

We have included two additional variables from county.data:

- State of each county: Because different states in the US have different laws which may affect access to drugs and alcohol
- Education - Percent of adults with a high school diploma only 2014-18: We believe this is a confounding factor of poverty and mortality from drugs since education will affect the jobs you are able to obtain (leading to poverty if unobtainable) and educated drug usage (which we are assuming gets taught in high school in the US). If they haven't been to high school, there is a more likely abuse of drugs since they are uneducated on the effects on their drug usage. Similarly, with poverty, if they are uneducated, they are less likely to have the skills to get a job and be able to obtain an income and then are more likely to enter poverty.

## Data cleaning

Firstly, we shall load all the data files.

```
load(  
  "US data for group task/Other census data/county.data.RData")
```

```
poverty.data <- read.csv(  
  "US data for group task/poverty/poverty data - ACS_16_5YR_S1702_with_ann.csv",  
  skip = 1, header = T)
```

```
drugs.mort.data <- read.table(  
  "US data for group task/mortality/Drugs and alcohol Cause of Death, 1999-2016.txt",  
  sep = '\t', header = T)
```

```
opioids.data <- read.csv("US data for group task/opioids/opioids prescribing rates.csv")
```

```
us.shape.1 <-  
  st_read("US data for group task/US shapefiles/cb_2016_us_county_20m.shp")
```

```
## Reading layer `cb_2016_us_county_20m' from data source  
##   `/Users/sarahsweeting/Desktop/DATA5207/DATA4207-GroupProject/group-project-2/US data for group task'  
##   using driver `ESRI Shapefile'  
## Simple feature collection with 3220 features and 9 fields  
## Geometry type: MULTIPOLYGON
```

```
## Dimension:      XY
## Bounding box:  xmin: -179.1743 ymin: 17.91377 xmax: 179.7739 ymax: 71.35256
## Geodetic CRS:  NAD83

fip.concordance <- read.csv("US data for group task/fips concordance.csv")
```

We will join datasets on their similar column - the FIPs code for the county:

```
head(poverty.data$Id2)
```

```
## [1] 1001 1003 1005 1007 1009 1011
```

```
head(drugs.mort.data$County.Code)
```

```
## [1] 1001 1003 1005 1007 1009 1011
```

```
head(county.data$FIPS)
```

```
## [1]      0 1000 1001 1003 1005 1007
```

```
head(opioids.data$FIPS.County.Code)
```

```
## [1] 2013 2016 2020 2050 2060 2068
```

```
patterns <- c(' County| Parish| city| Borough| Census Area')
```

```
main.data <- merge(
  poverty.data %>%
    dplyr::rename(below.poverty.rate =
      All.families....Percent.below.poverty.level..Estimate..Families) %>%
    dplyr::select(Id2, below.poverty.rate),
  drugs.mort.data %>%
    dplyr::rename(Id2 = County.Code,
      mortality.rate = Crude.Rate) %>%
  mutate(county = gsub(patterns, "", County)) %>%
  dplyr::select(Id2, county, mortality.rate))
```

```
main.data <- merge(
  main.data %>%
    dplyr::select(Id2, county, mortality.rate, below.poverty.rate),
  county.data %>%
    dplyr::rename(Id2 = FIPS,
      county.state = State,
      education.highschool = Percent.of.adults.with.a.high.school.diploma.only.2014.18) %>%
  mutate(z.highschool = (education.highschool - mean(education.highschool, na.rm=T)) /
    sd(education.highschool, na.rm=T)) %>%
  dplyr::select(Id2, county.state, education.highschool, z.highschool)
)
```

```
main.data <- merge(
  main.data %>%
    mutate(z.poverty = (below.poverty.rate - mean(below.poverty.rate, na.rm=T)) /
      sd(below.poverty.rate, na.rm=T)),
  opioids.data %>%
    dplyr::rename(Id2 = FIPS.County.Code) %>%
  mutate(z.opiates = (X2016.Prescribing.Rate - mean(X2016.Prescribing.Rate, na.rm=T)) /
```

```
sd(X2016.Prescribing.Rate, na.rm=T)) %>%
dplyr::select(Id2, z.opiates, X2016.Prescribing.Rate))
```

Viewing the first six rows of our new data frame, we can see the structure of these data:

```
##      Id2      county mortality.rate below.poverty.rate county.state
## 1 1001 Autauga, AL          12.5           9.4           AL
## 2 1003 Baldwin, AL         22.6           9.3           AL
## 3 1005 Barbour, AL          9.0          20.0           AL
## 4 1007  Bibb, AL          14.1          11.7           AL
## 5 1009 Blount, AL          18.1          12.2           AL
## 6 1011 Bullock, AL         11.1          25.3           AL
##      education.highschool z.highschool      z.poverty z.opiates
## 1              32.6 -0.20696226 -0.4937185239  1.2662069
## 2              27.6 -0.90386295 -0.5113760968  1.1283754
## 3              35.7  0.22511617  1.3779842063  0.3893133
## 4              47.3  1.84192578 -0.0875943466  0.4962515
## 5              34.0 -0.01183006  0.0006935181 -0.4614399
## 6              39.7  0.78263673  2.3138355714 -1.3430863
##      X2016.Prescribing.Rate
## 1              129.6
## 2              123.8
## 3              92.7
## 4              97.2
## 5              56.9
## 6              19.8
```

The first row is the ID variable we used to merge our data frames. The below.poverty.rate is the percentage of each county's families with incomes below the poverty rate. county, the name of each country (and the state within which they sit) while as county.state is the state code. X2016.Prescribing.Rate is the rate of opiod prescriptions. education.highschool is the percentage that completed highschool only. Finally, the mortality rate associated with drug and alcohol use (per 100,000 people).

In this code, we also standardise the education, poverty and prescription rates in the same line of block of code that we use to merge the data.

There is one last edit to make to these data before we examine them. If you run the code

```
levels(as.factor(main.data$mortality.rate))
```

```
##      [1] "10.0"      "10.1"      "10.2"      "10.3"      "10.4"
##      [6] "10.5"      "10.6"      "10.7"      "10.8"      "10.9"
##     [11] "11.0"      "11.1"      "11.2"      "11.3"      "11.4"
##     [16] "11.5"      "11.6"      "11.7"      "11.8"      "11.9"
##     [21] "113.4"     "12.0"      "12.1"      "12.2"      "12.3"
##     [26] "12.4"      "12.5"      "12.6"      "12.7"      "12.8"
##     [31] "12.9"      "13.0"      "13.1"      "13.2"      "13.3"
##     [36] "13.4"      "13.5"      "13.6"      "13.7"      "13.8"
##     [41] "13.9"      "14.0"      "14.1"      "14.2"      "14.3"
##     [46] "14.4"      "14.5"      "14.6"      "14.7"      "14.8"
##     [51] "14.9"      "15.0"      "15.1"      "15.2"      "15.3"
##     [56] "15.4"      "15.5"      "15.6"      "15.7"      "15.8"
##     [61] "15.9"      "16.0"      "16.1"      "16.2"      "16.3"
##     [66] "16.4"      "16.5"      "16.6"      "16.7"      "16.8"
##     [71] "16.9"      "17.0"      "17.1"      "17.2"      "17.3"
```

##	[76]	"17.4"	"17.5"	"17.6"	"17.7"	"17.8"
##	[81]	"17.9"	"18.0"	"18.1"	"18.2"	"18.3"
##	[86]	"18.4"	"18.5"	"18.6"	"18.7"	"18.8"
##	[91]	"18.9"	"19.0"	"19.1"	"19.2"	"19.3"
##	[96]	"19.4"	"19.5"	"19.6"	"19.7"	"19.8"
##	[101]	"19.9"	"20.0"	"20.1"	"20.2"	"20.3"
##	[106]	"20.4"	"20.5"	"20.6"	"20.7"	"20.8"
##	[111]	"20.9"	"21.0"	"21.1"	"21.2"	"21.3"
##	[116]	"21.4"	"21.5"	"21.6"	"21.7"	"21.8"
##	[121]	"21.9"	"22.0"	"22.1"	"22.2"	"22.3"
##	[126]	"22.4"	"22.5"	"22.6"	"22.7"	"22.8"
##	[131]	"22.9"	"23.0"	"23.1"	"23.2"	"23.3"
##	[136]	"23.4"	"23.5"	"23.6"	"23.7"	"23.8"
##	[141]	"23.9"	"24.0"	"24.1"	"24.2"	"24.3"
##	[146]	"24.4"	"24.5"	"24.6"	"24.7"	"24.8"
##	[151]	"24.9"	"25.0"	"25.1"	"25.2"	"25.3"
##	[156]	"25.4"	"25.5"	"25.6"	"25.7"	"25.8"
##	[161]	"25.9"	"26.0"	"26.1"	"26.2"	"26.3"
##	[166]	"26.4"	"26.5"	"26.6"	"26.7"	"26.8"
##	[171]	"26.9"	"27.0"	"27.1"	"27.2"	"27.3"
##	[176]	"27.4"	"27.5"	"27.6"	"27.7"	"27.8"
##	[181]	"27.9"	"28.0"	"28.1"	"28.2"	"28.3"
##	[186]	"28.4"	"28.5"	"28.6"	"28.7"	"28.8"
##	[191]	"28.9"	"29.0"	"29.1"	"29.2"	"29.4"
##	[196]	"29.5"	"29.6"	"29.7"	"29.8"	"29.9"
##	[201]	"30.0"	"30.1"	"30.2"	"30.3"	"30.5"
##	[206]	"30.6"	"30.7"	"30.8"	"30.9"	"31.0"
##	[211]	"31.1"	"31.2"	"31.3"	"31.4"	"31.5"
##	[216]	"31.6"	"31.7"	"31.8"	"31.9"	"32.3"
##	[221]	"32.4"	"32.5"	"32.6"	"32.7"	"32.8"
##	[226]	"32.9"	"33.0"	"33.1"	"33.2"	"33.3"
##	[231]	"33.4"	"33.5"	"33.6"	"33.7"	"33.8"
##	[236]	"33.9"	"34.0"	"34.1"	"34.2"	"34.3"
##	[241]	"34.4"	"34.5"	"34.6"	"34.8"	"34.9"
##	[246]	"35.0"	"35.1"	"35.3"	"35.4"	"35.6"
##	[251]	"35.7"	"35.9"	"36.0"	"36.1"	"36.2"
##	[256]	"36.3"	"36.4"	"36.5"	"36.7"	"36.8"
##	[261]	"36.9"	"37.0"	"37.2"	"37.3"	"37.4"
##	[266]	"37.5"	"37.7"	"37.9"	"38.0"	"38.1"
##	[271]	"38.2"	"38.3"	"38.4"	"38.5"	"38.6"
##	[276]	"38.7"	"38.8"	"38.9"	"39.1"	"39.2"
##	[281]	"39.4"	"39.5"	"39.6"	"39.7"	"39.9"
##	[286]	"4.2"	"4.6"	"4.9"	"40.0"	"40.4"
##	[291]	"40.5"	"40.6"	"40.7"	"40.8"	"41.0"
##	[296]	"41.2"	"41.5"	"41.7"	"41.8"	"41.9"
##	[301]	"42.1"	"42.2"	"42.3"	"42.4"	"42.5"
##	[306]	"42.9"	"43.2"	"43.3"	"43.5"	"43.6"
##	[311]	"43.9"	"44.1"	"44.2"	"44.5"	"44.6"
##	[316]	"44.7"	"44.9"	"45.0"	"45.1"	"45.4"
##	[321]	"45.5"	"45.7"	"45.8"	"45.9"	"46.2"
##	[326]	"46.7"	"46.9"	"47.0"	"47.5"	"47.9"
##	[331]	"48.2"	"48.5"	"49.0"	"49.1"	"49.7"
##	[336]	"49.9"	"5.3"	"5.8"	"5.9"	"50.0"
##	[341]	"50.1"	"50.2"	"50.3"	"51.0"	"51.4"

```
## [346] "51.5"      "51.8"      "51.9"      "52.2"      "52.7"
## [351] "52.9"      "53.0"      "53.1"      "53.4"      "53.8"
## [356] "54.5"      "54.6"      "55.0"      "55.7"      "55.8"
## [361] "56.0"      "58.4"      "59.2"      "6.2"       "6.3"
## [366] "6.5"       "6.7"       "6.8"       "60.3"      "61.6"
## [371] "61.8"      "64.3"      "66.8"      "67.2"      "67.3"
## [376] "67.4"      "68.9"      "7.1"       "7.2"       "7.3"
## [381] "7.4"       "7.5"       "7.6"       "7.7"       "7.8"
## [386] "7.9"       "70.1"      "74.5"      "78.9"      "8.0"
## [391] "8.1"       "8.2"       "8.3"       "8.4"       "8.5"
## [396] "8.6"       "8.7"       "8.8"       "8.9"       "80.2"
## [401] "83.7"      "86.3"      "87.1"      "9.0"       "9.1"
## [406] "9.2"       "9.3"       "9.4"       "9.5"       "9.6"
## [411] "9.7"       "9.8"       "9.9"       "90.8"      "97.6"
## [416] "Unreliable"
```

you will see that some of the observations for the variable `mortality.rate` are coded as 'Unreliable'. This creates two issues for us. Those observations are effectively missing for our purposes, and this converts the variable to a string when we want it to be a number.

```
main.data <- main.data %>%
  mutate(mortality.rate = ifelse(mortality.rate == 'Unreliable',
                                NA, as.numeric(as.character(mortality.rate))))
```

We then want to link these shapefiles to the county results. This file, which we were required to modify a little above, can be matched to the shapefile data using similar syntax to above:

```
us.shape.2 <- us.shape.1 %>%
  merge(fip.concordance %>%
    mutate(STATEFP = ifelse(Numeric.code >= 0 & Numeric.code <= 9,
                           paste0(0, Numeric.code), Numeric.code)) %>%
    dplyr::rename(state = Alpha.code))
```

We edit the variable containing county names in shapefile using the `paste0()` function, which combines the county name with the state abbreviation (from the fip concordance file). We then modify county names with some different spelling in the shapefiles and our county level data:

```
us.shape.2$county <- paste0(us.shape.2$NAME, ", ", us.shape.2$state)

us.shape.2$county <- gsub("Doña Ana, NM", "Dona Ana, NM", us.shape.2$county)
us.shape.2$county <- gsub("LaSalle, LA", "La Salle, LA", us.shape.2$county)
us.shape.2$county <- gsub("Oglala Lakota, SD", "Oglala, SD", us.shape.2$county)
```

And then we merge the shapefile and the county-level data:

```
us.shape.2 <- full_join(us.shape.2,
  main.data %>%
    dplyr::select(county, below.poverty.rate, mortality.rate, X2016.Prescribing.Rate))

## Joining with `by = join_by(county)`
```

```
## Warning in sf_column %in% names(g): Detected an unexpected many-to-many relationship between `x` and
## i Row 1205 of `x` matches multiple rows in `y`.
## i Row 1138 of `y` matches multiple rows in `x`.
## i If a many-to-many relationship is expected, set `relationship =
## "many-to-many"` to silence this warning.
```

TODO: - clean out unreliable mortality data??

You are now ready to map these data. Good luck with the rest of the exercise!

## Descriptive Analysis

1. Conduct some descriptive analyses of these data. You can examine this using scatter plots and correlation coefficients. Do you need to transform any of the variables

## Relationship of dependent and independent variables

How does poverty and opiate prescriptions predict mortality rates associated with drugs and alcohol? Some other data is provided in the data folder, and you should take a few variables or controls from this.

2. Fit regressions to your data. What is the appropriate type of regression and why have you chosen it?

Since our dependent variable mortality.rate is a numerical value, it is appropriate the model this using a linear regression model.

Make sure to drop the NA values for all the other columns:

```
main.data = drop_na(main.data, mortality.rate, z.poverty, z.opiates, z.highschool)
```

Ensure that the county states are coded for each State

```
tabyl(main.data, county.state)
```

```
## county.state  n      percent
##           AK   9 0.0034456355
##           AL  62 0.0237366003
##           AR  65 0.0248851455
##           AZ  15 0.0057427259
##           CA  57 0.0218223583
##           CO  45 0.0172281776
##           CT   8 0.0030627871
##           DC   1 0.0003828484
##           DE   3 0.0011485452
##           FL  66 0.0252679939
##           GA 136 0.0520673813
##           HI   4 0.0015313936
##           IA  76 0.0290964778
##           ID  35 0.0133996937
##           IL  88 0.0336906585
##           IN  90 0.0344563553
##           KS  49 0.0187595712
##           KY 116 0.0444104135
##           LA  60 0.0229709035
##           MA  14 0.0053598775
##           MD  24 0.0091883614
##           ME  16 0.0061255743
```

```
##      MI 82 0.0313935681
##      MN 71 0.0271822358
##      MO 94 0.0359877489
##      MS 70 0.0267993874
##      MT 33 0.0126339969
##      NC 97 0.0371362940
##      ND 20 0.0076569678
##      NE 34 0.0130168453
##      NH 10 0.0038284839
##      NJ 21 0.0080398162
##      NM 28 0.0107197550
##      NV 14 0.0053598775
##      NY 61 0.0233537519
##      OH 88 0.0336906585
##      OK 68 0.0260336907
##      OR 33 0.0126339969
##      PA 66 0.0252679939
##      RI  5 0.0019142420
##      SC 45 0.0172281776
##      SD 26 0.0099540582
##      TN 93 0.0356049005
##      TX 183 0.0700612557
##      UT 24 0.0091883614
##      VA 117 0.0447932619
##      VT 14 0.0053598775
##      WA 37 0.0141653905
##      WI 69 0.0264165391
##      WV 51 0.0195252680
##      WY 19 0.0072741194
```

```
levels(as.factor(main.data$county.state))
```

```
## [1] "AK" "AL" "AR" "AZ" "CA" "CO" "CT" "DC" "DE" "FL" "GA" "HI" "IA" "ID" "IL"
## [16] "IN" "KS" "KY" "LA" "MA" "MD" "ME" "MI" "MN" "MO" "MS" "MT" "NC" "ND" "NE"
## [31] "NH" "NJ" "NM" "NV" "NY" "OH" "OK" "OR" "PA" "RI" "SC" "SD" "TN" "TX" "UT"
## [46] "VA" "VT" "WA" "WI" "WV" "WY"
```

```
# Create a data frame for Cannabis Legality in U.S. States
```

```
# Create a data frame for Cannabis Legality in U.S. States using abbreviations
```

```
cannabis_legality <- data.frame(
  county.state = c("AL", "AK", "AZ", "AR", "CA",
    "CO", "CT", "DE", "FL", "GA",
    "HI", "ID", "IL", "IN", "IA",
    "KS", "KY", "LA", "ME", "MD",
    "MA", "MI", "MN", "MS",
    "MO", "MT", "NE", "NV", "NH",
    "NJ", "NM", "NY", "NC",
    "ND", "OH", "OK", "OR", "PA",
    "RI", "SC", "SD", "TN",
    "TX", "UT", "VT", "VA", "WA",
    "WV", "WI", "WY"),
  Legality_Status = c("Legal for Medical Only", "Legal for Medical and Recreational",
    "Legal for Medical and Recreational", "Legal for Medical Only",
    "Legal for Medical and Recreational", "Legal for Medical and Recreational",
    "Legal for Medical and Recreational", "Legal for Medical Only",
```

```

"Legal for Medical Only", "Legal for Medical Only",
"Legal for Medical Only", "Illegal", "Legal for Medical and Recreational",
"Legal for Medical Only", "Legal for Medical Only",
"Legal for Medical Only", "Legal for Medical Only",
"Legal for Medical Only", "Legal for Medical and Recreational",
"Legal for Medical and Recreational", "Legal for Medical and Recreational",
"Legal for Medical and Recreational", "Legal for Medical Only",
"Legal for Medical Only", "Legal for Medical and Recreational",
"Legal for Medical and Recreational", "Decriminalized",
"Legal for Medical and Recreational", "Legal for Medical Only",
"Legal for Medical and Recreational", "Legal for Medical and Recreational",
"Legal for Medical and Recreational", "Legal for Medical Only",
"Legal for Medical Only", "Legal for Medical Only",
"Legal for Medical Only", "Legal for Medical and Recreational",
"Legal for Medical Only", "Legal for Medical and Recreational",
"Legal for Medical Only", "Legal for Medical Only",
"Legal for Medical Only", "Legal for Medical and Recreational",
"Legal for Medical and Recreational", "Legal for Medical and Recreational",
"Legal for Medical Only", "Legal for Medical Only", "Illegal")
)

# Print the table
print(cannabis_legality)

```

```

##      county.state      Legality_Status
## 1          AL      Legal for Medical Only
## 2          AK Legal for Medical and Recreational
## 3          AZ Legal for Medical and Recreational
## 4          AR      Legal for Medical Only
## 5          CA Legal for Medical and Recreational
## 6          CO Legal for Medical and Recreational
## 7          CT Legal for Medical and Recreational
## 8          DE      Legal for Medical Only
## 9          FL      Legal for Medical Only
## 10         GA      Legal for Medical Only
## 11         HI      Legal for Medical Only
## 12         ID          Illegal
## 13         IL Legal for Medical and Recreational
## 14         IN      Legal for Medical Only
## 15         IA      Legal for Medical Only
## 16         KS      Legal for Medical Only
## 17         KY      Legal for Medical Only
## 18         LA      Legal for Medical Only
## 19         ME Legal for Medical and Recreational
## 20         MD Legal for Medical and Recreational
## 21         MA Legal for Medical and Recreational
## 22         MI Legal for Medical and Recreational
## 23         MN      Legal for Medical Only
## 24         MS      Legal for Medical Only
## 25         MO Legal for Medical and Recreational
## 26         MT Legal for Medical and Recreational
## 27         NE          Decriminalized
## 28         NV Legal for Medical and Recreational

```



```
## 29      NH      Legal for Medical Only
## 30      NJ Legal for Medical and Recreational
## 31      NM Legal for Medical and Recreational
## 32      NY Legal for Medical and Recreational
## 33      NC      Legal for Medical Only
## 34      ND      Legal for Medical Only
## 35      OH      Legal for Medical Only
## 36      OK      Legal for Medical Only
## 37      OR Legal for Medical and Recreational
## 38      PA      Legal for Medical Only
## 39      RI Legal for Medical and Recreational
## 40      SC      Legal for Medical Only
## 41      SD Legal for Medical and Recreational
## 42      TN      Legal for Medical Only
## 43      TX      Legal for Medical Only
## 44      UT      Legal for Medical Only
## 45      VT Legal for Medical and Recreational
## 46      VA Legal for Medical and Recreational
## 47      WA Legal for Medical and Recreational
## 48      WV      Legal for Medical Only
## 49      WI      Legal for Medical Only
## 50      WY      Illegal
```

```
legalplus.main.data = merge(main.data, cannabis_legality, by = "county.state", all = TRUE)
```

Model includes the standardised numerical variables and state.

```
regmodel <- lm(mortality.rate ~ z.poverty + z.opiates + z.highschool + Legality_Status, data = legalplus.main.data)
```

```
summary(regmodel)
```

```
##
## Call:
## lm(formula = mortality.rate ~ z.poverty + z.opiates + z.highschool +
##     Legality_Status, data = legalplus.main.data)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -24.189  -5.654  -1.323   3.784  88.459
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    17.26378     1.50043  11.506   < 2e-16 ***
## z.poverty        1.96731     0.19792   9.940   < 2e-16 ***
## z.opiates        2.00481     0.18750  10.692   < 2e-16 ***
## z.highschool    -0.09618     0.17863  -0.538  0.590311
## Legality_StatusIllegal    7.46577     1.90954   3.910  9.48e-05 ***
## Legality_StatusLegal for Medical and Recreational    5.82621     1.52670   3.816
## Legality_StatusLegal for Medical Only    1.82519     1.51923   1.201
```

```
## Legality_StatusLegal for Medical and Recreational 0.000139 ***
## Legality_StatusLegal for Medical Only          0.229709
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 8.718 on 2604 degrees of freedom
## (1 observation deleted due to missingness)
## Multiple R-squared:  0.1284, Adjusted R-squared:  0.1264
## F-statistic: 63.94 on 6 and 2604 DF,  p-value: < 2.2e-16
```

```
print(legalplus.main.data)
```

	county.state	Id2	county	mortality.rate
## 1	AK	2020	Anchorage, AK	35.0
## 2	AK	2110	Juneau, AK	31.7
## 3	AK	2122	Kenai Peninsula, AK	36.0
## 4	AK	2130	Ketchikan Gateway, AK	39.6
## 5	AK	2150	Kodiak Island, AK	28.1
## 6	AK	2170	Matanuska-Susitna, AK	28.3
## 7	AK	2220	Sitka, AK	31.9
## 8	AK	2261	Valdez-Cordova, AK	43.2
## 9	AK	2090	Fairbanks North Star, AK	26.9
## 10	AL	1001	Autauga, AL	12.5
## 11	AL	1005	Barbour, AL	9.0
## 12	AL	1007	Bibb, AL	14.1
## 13	AL	1009	Blount, AL	18.1
## 14	AL	1003	Baldwin, AL	22.6
## 15	AL	1013	Butler, AL	9.6
## 16	AL	1015	Calhoun, AL	15.0
## 17	AL	1017	Chambers, AL	15.7
## 18	AL	1011	Bullock, AL	11.1
## 19	AL	1021	Chilton, AL	17.8
## 20	AL	1023	Choctaw, AL	10.1
## 21	AL	1025	Clarke, AL	10.4
## 22	AL	1027	Clay, AL	12.4
## 23	AL	1029	Cleburne, AL	11.4
## 24	AL	1031	Coffee, AL	10.1
## 25	AL	1033	Colbert, AL	9.9
## 26	AL	1035	Conecuh, AL	19.6
## 27	AL	1037	Coosa, AL	17.6
## 28	AL	1039	Covington, AL	10.7
## 29	AL	1041	Crenshaw, AL	11.6
## 30	AL	1043	Cullman, AL	16.9
## 31	AL	1019	Cherokee, AL	19.8
## 32	AL	1047	Dallas, AL	10.2
## 33	AL	1049	DeKalb, AL	17.0
## 34	AL	1051	Elmore, AL	9.9
## 35	AL	1053	Escambia, AL	34.4
## 36	AL	1055	Etowah, AL	18.0
## 37	AL	1057	Fayette, AL	18.6
## 38	AL	1059	Franklin, AL	18.6
## 39	AL	1061	Geneva, AL	15.2
## 40	AL	1067	Henry, AL	13.1
## 41	AL	1069	Houston, AL	14.6
## 42	AL	1071	Jackson, AL	12.8

## 43	AL	1073	Jefferson, AL	24.0
## 44	AL	1075	Lamar, AL	9.7
## 45	AL	1077	Lauderdale, AL	14.8
## 46	AL	1079	Lawrence, AL	16.6
## 47	AL	1081	Lee, AL	9.8
## 48	AL	1083	Limestone, AL	10.6
## 49	AL	1087	Macon, AL	10.0
## 50	AL	1089	Madison, AL	11.9
## 51	AL	1091	Marengo, AL	9.7
## 52	AL	1093	Marion, AL	6.2
## 53	AL	1095	Marshall, AL	17.2
## 54	AL	1097	Mobile, AL	19.2
## 55	AL	1099	Monroe, AL	13.6
## 56	AL	1101	Montgomery, AL	10.0
## 57	AL	1103	Morgan, AL	17.8
## 58	AL	1107	Pickens, AL	11.3
## 59	AL	1109	Pike, AL	12.8
## 60	AL	1111	Randolph, AL	13.3
## 61	AL	1113	Russell, AL	17.6
## 62	AL	1115	St. Clair, AL	21.3
## 63	AL	1117	Shelby, AL	17.8
## 64	AL	1121	Talladega, AL	12.2
## 65	AL	1123	Tallapoosa, AL	14.5
## 66	AL	1125	Tuscaloosa, AL	16.4
## 67	AL	1127	Walker, AL	32.5
## 68	AL	1129	Washington, AL	7.6
## 69	AL	1131	Wilcox, AL	13.4
## 70	AL	1133	Winston, AL	11.4
## 71	AL	1045	Dale, AL	15.0
## 72	AR	5003	Ashley, AR	14.9
## 73	AR	5005	Baxter, AR	21.8
## 74	AR	5007	Benton, AR	15.9
## 75	AR	5001	Arkansas, AR	10.8
## 76	AR	5015	Carroll, AR	26.6
## 77	AR	5017	Chicot, AR	14.8
## 78	AR	5019	Clark, AR	10.9
## 79	AR	5021	Clay, AR	13.3
## 80	AR	5023	Cleburne, AR	13.7
## 81	AR	5027	Columbia, AR	13.7
## 82	AR	5029	Conway, AR	19.7
## 83	AR	5031	Craighead, AR	14.2
## 84	AR	5033	Crawford, AR	21.3
## 85	AR	5035	Crittenden, AR	15.7
## 86	AR	5037	Cross, AR	16.1
## 87	AR	5041	Desha, AR	14.8
## 88	AR	5009	Boone, AR	17.3
## 89	AR	5045	Faulkner, AR	13.7
## 90	AR	5047	Franklin, AR	25.4
## 91	AR	5049	Fulton, AR	21.6
## 92	AR	5051	Garland, AR	33.0
## 93	AR	5053	Grant, AR	13.1
## 94	AR	5055	Greene, AR	22.0
## 95	AR	5057	Hempstead, AR	8.3
## 96	AR	5059	Hot Spring, AR	15.4

## 97	AR 5061	Howard, AR	8.8
## 98	AR 5063	Independence, AR	13.5
## 99	AR 5065	Izard, AR	23.5
## 100	AR 5067	Jackson, AR	20.1
## 101	AR 5069	Jefferson, AR	11.2
## 102	AR 5071	Johnson, AR	15.3
## 103	AR 5075	Lawrence, AR	14.1
## 104	AR 5081	Little River, AR	15.7
## 105	AR 5083	Logan, AR	18.9
## 106	AR 5085	Lonoke, AR	15.8
## 107	AR 5087	Madison, AR	11.0
## 108	AR 5089	Marion, AR	18.9
## 109	AR 5091	Miller, AR	12.3
## 110	AR 5093	Mississippi, AR	21.8
## 111	AR 5097	Montgomery, AR	15.0
## 112	AR 5101	Newton, AR	20.0
## 113	AR 5103	Ouachita, AR	15.1
## 114	AR 5105	Perry, AR	17.2
## 115	AR 5107	Phillips, AR	13.2
## 116	AR 5109	Pike, AR	11.9
## 117	AR 5111	Poinsett, AR	20.9
## 118	AR 5113	Polk, AR	15.6
## 119	AR 5115	Pope, AR	18.3
## 120	AR 5119	Pulaski, AR	17.9
## 121	AR 5121	Randolph, AR	15.8
## 122	AR 5123	St. Francis, AR	11.6
## 123	AR 5125	Saline, AR	16.2
## 124	AR 5127	Scott, AR	17.2
## 125	AR 5129	Searcy, AR	20.6
## 126	AR 5131	Sebastian, AR	20.7
## 127	AR 5133	Sevier, AR	15.8
## 128	AR 5043	Drew, AR	15.5
## 129	AR 5137	Stone, AR	12.8
## 130	AR 5139	Union, AR	23.9
## 131	AR 5141	Van Buren, AR	14.5
## 132	AR 5143	Washington, AR	13.3
## 133	AR 5145	White, AR	14.7
## 134	AR 5147	Woodruff, AR	18.1
## 135	AR 5149	Yell, AR	16.5
## 136	AR 5135	Sharp, AR	21.6
## 137	AZ 4001	Apache, AZ	58.4
## 138	AZ 4003	Cochise, AZ	25.3
## 139	AZ 4007	Gila, AZ	51.0
## 140	AZ 4009	Graham, AZ	29.0
## 141	AZ 4011	Greenlee, AZ	21.6
## 142	AZ 4005	Coconino, AZ	33.3
## 143	AZ 4013	Maricopa, AZ	26.6
## 144	AZ 4015	Mohave, AZ	42.9
## 145	AZ 4017	Navajo, AZ	55.8
## 146	AZ 4019	Pima, AZ	33.5
## 147	AZ 4021	Pinal, AZ	25.3
## 148	AZ 4023	Santa Cruz, AZ	15.4
## 149	AZ 4025	Yavapai, AZ	38.2
## 150	AZ 4027	Yuma, AZ	19.3

## 151	AZ	4012	La Paz, AZ	50.2
## 152	CA	6001	Alameda, CA	18.8
## 153	CA	6005	Amador, CA	33.0
## 154	CA	6007	Butte, CA	40.7
## 155	CA	6011	Colusa, CA	16.7
## 156	CA	6013	Contra Costa, CA	18.7
## 157	CA	6015	Del Norte, CA	34.8
## 158	CA	6009	Calaveras, CA	28.9
## 159	CA	6019	Fresno, CA	24.1
## 160	CA	6021	Glenn, CA	25.4
## 161	CA	6023	Humboldt, CA	60.3
## 162	CA	6025	Imperial, CA	20.8
## 163	CA	6027	Inyo, CA	44.2
## 164	CA	6029	Kern, CA	30.9
## 165	CA	6031	Kings, CA	17.8
## 166	CA	6033	Lake, CA	67.3
## 167	CA	6035	Lassen, CA	35.3
## 168	CA	6037	Los Angeles, CA	18.8
## 169	CA	6039	Madera, CA	25.5
## 170	CA	6041	Marin, CA	21.2
## 171	CA	6017	El Dorado, CA	28.8
## 172	CA	6045	Mendocino, CA	38.7
## 173	CA	6047	Merced, CA	22.5
## 174	CA	6049	Modoc, CA	46.7
## 175	CA	6051	Mono, CA	17.5
## 176	CA	6053	Monterey, CA	19.8
## 177	CA	6055	Napa, CA	23.1
## 178	CA	6057	Nevada, CA	29.8
## 179	CA	6059	Orange, CA	18.1
## 180	CA	6061	Placer, CA	21.8
## 181	CA	6063	Plumas, CA	42.3
## 182	CA	6065	Riverside, CA	23.9
## 183	CA	6067	Sacramento, CA	28.0
## 184	CA	6043	Mariposa, CA	35.9
## 185	CA	6071	San Bernardino, CA	23.2
## 186	CA	6073	San Diego, CA	23.3
## 187	CA	6075	San Francisco, CA	35.4
## 188	CA	6077	San Joaquin, CA	24.3
## 189	CA	6079	San Luis Obispo, CA	25.8
## 190	CA	6081	San Mateo, CA	16.3
## 191	CA	6083	Santa Barbara, CA	24.9
## 192	CA	6085	Santa Clara, CA	16.0
## 193	CA	6087	Santa Cruz, CA	29.1
## 194	CA	6089	Shasta, CA	46.7
## 195	CA	6091	Sierra, CA	49.1
## 196	CA	6093	Siskiyou, CA	38.3
## 197	CA	6095	Solano, CA	20.8
## 198	CA	6097	Sonoma, CA	25.7
## 199	CA	6099	Stanislaus, CA	27.0
## 200	CA	6101	Sutter, CA	21.8
## 201	CA	6103	Tehama, CA	27.4
## 202	CA	6105	Trinity, CA	42.1
## 203	CA	6107	Tulare, CA	17.2
## 204	CA	6109	Tuolumne, CA	36.7

## 205	CA 6111	Ventura, CA	21.3
## 206	CA 6113	Yolo, CA	20.5
## 207	CA 6115	Yuba, CA	17.7
## 208	CA 6069	San Benito, CA	16.1
## 209	CO 8001	Adams, CO	27.8
## 210	CO 8003	Alamosa, CO	42.3
## 211	CO 8005	Arapahoe, CO	24.5
## 212	CO 8011	Bent, CO	38.0
## 213	CO 8013	Boulder, CO	21.1
## 214	CO 8014	Broomfield, CO	19.9
## 215	CO 8015	Chaffee, CO	27.9
## 216	CO 8019	Clear Creek, CO	27.8
## 217	CO 8021	Conejos, CO	39.6
## 218	CO 8025	Crowley, CO	28.6
## 219	CO 8029	Delta, CO	26.6
## 220	CO 8031	Denver, CO	44.1
## 221	CO 8035	Douglas, CO	11.2
## 222	CO 8037	Eagle, CO	13.4
## 223	CO 8039	Elbert, CO	18.0
## 224	CO 8007	Archuleta, CO	21.5
## 225	CO 8043	Fremont, CO	33.9
## 226	CO 8045	Garfield, CO	26.5
## 227	CO 8049	Grand, CO	21.5
## 228	CO 8051	Gunnison, CO	18.2
## 229	CO 8055	Huerfano, CO	59.2
## 230	CO 8059	Jefferson, CO	25.5
## 231	CO 8063	Kit Carson, CO	14.4
## 232	CO 8065	Lake, CO	21.5
## 233	CO 8067	La Plata, CO	27.7
## 234	CO 8069	Larimer, CO	21.6
## 235	CO 8071	Las Animas, CO	40.7
## 236	CO 8075	Logan, CO	23.1
## 237	CO 8077	Mesa, CO	33.0
## 238	CO 8081	Moffat, CO	24.8
## 239	CO 8083	Montezuma, CO	34.9
## 240	CO 8085	Montrose, CO	25.1
## 241	CO 8087	Morgan, CO	21.5
## 242	CO 8089	Otero, CO	34.3
## 243	CO 8097	Pitkin, CO	15.4
## 244	CO 8099	Prowers, CO	24.7
## 245	CO 8101	Pueblo, CO	32.6
## 246	CO 8103	Rio Blanco, CO	21.0
## 247	CO 8105	Rio Grande, CO	34.3
## 248	CO 8107	Routt, CO	24.0
## 249	CO 8113	San Miguel, CO	20.6
## 250	CO 8117	Summit, CO	19.7
## 251	CO 8119	Teller, CO	33.4
## 252	CO 8123	Weld, CO	19.9
## 253	CO 8041	El Paso, CO	29.7
## 254	CT 9001	Fairfield, CT	14.8
## 255	CT 9003	Hartford, CT	20.7
## 256	CT 9005	Litchfield, CT	21.5
## 257	CT 9009	New Haven, CT	21.5
## 258	CT 9011	New London, CT	23.4

## 259	CT 9013	Tolland, CT	15.1
## 260	CT 9007	Middlesex, CT	21.6
## 261	CT 9015	Windham, CT	23.3
## 262	DC 11001	District of Columbia, DC	31.4
## 263	DE 10001	Kent, DE	21.0
## 264	DE 10003	New Castle, DE	22.9
## 265	DE 10005	Sussex, DE	22.4
## 266	FL 12001	Alachua, FL	18.4
## 267	FL 12003	Baker, FL	26.4
## 268	FL 12005	Bay, FL	31.6
## 269	FL 12007	Bradford, FL	29.4
## 270	FL 12009	Brevard, FL	35.1
## 271	FL 12011	Broward, FL	23.1
## 272	FL 12013	Calhoun, FL	17.5
## 273	FL 12015	Charlotte, FL	24.7
## 274	FL 12017	Citrus, FL	33.7
## 275	FL 12019	Clay, FL	24.2
## 276	FL 12021	Collier, FL	25.5
## 277	FL 12023	Columbia, FL	25.7
## 278	FL 12027	DeSoto, FL	18.1
## 279	FL 12029	Dixie, FL	42.4
## 280	FL 12031	Duval, FL	26.6
## 281	FL 12033	Escambia, FL	23.3
## 282	FL 12035	Flagler, FL	21.1
## 283	FL 12037	Franklin, FL	41.5
## 284	FL 12039	Gadsden, FL	15.3
## 285	FL 12041	Gilchrist, FL	21.8
## 286	FL 12043	Glades, FL	28.3
## 287	FL 12045	Gulf, FL	22.8
## 288	FL 12047	Hamilton, FL	16.8
## 289	FL 12049	Hardee, FL	14.9
## 290	FL 12051	Hendry, FL	20.3
## 291	FL 12053	Hernando, FL	31.7
## 292	FL 12055	Highlands, FL	24.9
## 293	FL 12057	Hillsborough, FL	25.7
## 294	FL 12059	Holmes, FL	25.4
## 295	FL 12061	Indian River, FL	31.0
## 296	FL 12063	Jackson, FL	21.4
## 297	FL 12065	Jefferson, FL	19.8
## 298	FL 12067	Lafayette, FL	25.3
## 299	FL 12069	Lake, FL	19.9
## 300	FL 12071	Lee, FL	29.9
## 301	FL 12073	Leon, FL	14.3
## 302	FL 12075	Levy, FL	32.7
## 303	FL 12079	Madison, FL	12.9
## 304	FL 12081	Manatee, FL	34.0
## 305	FL 12083	Marion, FL	28.3
## 306	FL 12085	Martin, FL	33.1
## 307	FL 12086	Miami-Dade, FL	11.4
## 308	FL 12087	Monroe, FL	53.1
## 309	FL 12089	Nassau, FL	25.7
## 310	FL 12091	Okaloosa, FL	24.5
## 311	FL 12093	Okeechobee, FL	37.7
## 312	FL 12095	Orange, FL	17.6

## 313	FL 12097	Osceola, FL	16.0
## 314	FL 12099	Palm Beach, FL	27.1
## 315	FL 12101	Pasco, FL	38.9
## 316	FL 12103	Pinellas, FL	38.9
## 317	FL 12105	Polk, FL	22.8
## 318	FL 12107	Putnam, FL	28.4
## 319	FL 12109	St. Johns, FL	19.5
## 320	FL 12111	St. Lucie, FL	28.9
## 321	FL 12113	Santa Rosa, FL	22.1
## 322	FL 12115	Sarasota, FL	34.4
## 323	FL 12117	Seminole, FL	18.8
## 324	FL 12119	Sumter, FL	20.0
## 325	FL 12121	Suwannee, FL	22.6
## 326	FL 12123	Taylor, FL	25.8
## 327	FL 12125	Union, FL	21.9
## 328	FL 12127	Volusia, FL	31.3
## 329	FL 12129	Wakulla, FL	24.9
## 330	FL 12131	Walton, FL	26.8
## 331	FL 12133	Washington, FL	22.4
## 332	GA 13001	Appling, GA	17.3
## 333	GA 13005	Bacon, GA	17.5
## 334	GA 13009	Baldwin, GA	9.2
## 335	GA 13011	Banks, GA	16.9
## 336	GA 13013	Barrow, GA	18.9
## 337	GA 13015	Bartow, GA	21.7
## 338	GA 13017	Ben Hill, GA	16.2
## 339	GA 13019	Berrien, GA	13.5
## 340	GA 13021	Bibb, GA	16.4
## 341	GA 13023	Bleckley, GA	16.9
## 342	GA 13025	Brantley, GA	27.4
## 343	GA 13027	Brooks, GA	13.8
## 344	GA 13029	Bryan, GA	12.1
## 345	GA 13031	Bulloch, GA	9.7
## 346	GA 13033	Burke, GA	14.3
## 347	GA 13035	Butts, GA	22.3
## 348	GA 13039	Camden, GA	13.5
## 349	GA 13043	Candler, GA	25.5
## 350	GA 13045	Carroll, GA	23.5
## 351	GA 13047	Catoosa, GA	24.3
## 352	GA 13049	Charlton, GA	13.9
## 353	GA 13051	Chatham, GA	16.8
## 354	GA 13055	Chattooga, GA	24.1
## 355	GA 13057	Cherokee, GA	16.5
## 356	GA 13059	Clarke, GA	15.1
## 357	GA 13063	Clayton, GA	12.5
## 358	GA 13067	Cobb, GA	14.3
## 359	GA 13069	Coffee, GA	15.8
## 360	GA 13071	Colquitt, GA	15.6
## 361	GA 13073	Columbia, GA	12.8
## 362	GA 13075	Cook, GA	16.4
## 363	GA 13077	Coweta, GA	14.3
## 364	GA 13079	Crawford, GA	16.7
## 365	GA 13081	Crisp, GA	14.9
## 366	GA 13083	Dade, GA	15.1



## 367	GA 13085	Dawson, GA	19.8
## 368	GA 13087	Decatur, GA	13.6
## 369	GA 13089	DeKalb, GA	12.8
## 370	GA 13091	Dodge, GA	18.3
## 371	GA 13093	Dooly, GA	9.5
## 372	GA 13095	Dougherty, GA	20.1
## 373	GA 13097	Douglas, GA	14.6
## 374	GA 13099	Early, GA	15.7
## 375	GA 13103	Effingham, GA	14.1
## 376	GA 13105	Elbert, GA	25.1
## 377	GA 13107	Emanuel, GA	14.8
## 378	GA 13109	Evans, GA	12.3
## 379	GA 13111	Fannin, GA	31.0
## 380	GA 13113	Fayette, GA	12.2
## 381	GA 13115	Floyd, GA	21.7
## 382	GA 13117	Forsyth, GA	14.0
## 383	GA 13119	Franklin, GA	26.7
## 384	GA 13121	Fulton, GA	19.8
## 385	GA 13123	Gilmer, GA	23.6
## 386	GA 13127	Glynn, GA	22.1
## 387	GA 13129	Gordon, GA	19.1
## 388	GA 13131	Grady, GA	13.4
## 389	GA 13133	Greene, GA	12.4
## 390	GA 13135	Gwinnett, GA	10.3
## 391	GA 13137	Habersham, GA	17.2
## 392	GA 13139	Hall, GA	19.7
## 393	GA 13143	Haralson, GA	31.9
## 394	GA 13145	Harris, GA	15.9
## 395	GA 13147	Hart, GA	20.6
## 396	GA 13149	Heard, GA	21.8
## 397	GA 13151	Henry, GA	15.6
## 398	GA 13153	Houston, GA	13.7
## 399	GA 13157	Jackson, GA	23.0
## 400	GA 13159	Jasper, GA	15.3
## 401	GA 13161	Jeff Davis, GA	25.9
## 402	GA 13163	Jefferson, GA	14.2
## 403	GA 13165	Jenkins, GA	16.1
## 404	GA 13167	Johnson, GA	14.5
## 405	GA 13169	Jones, GA	14.9
## 406	GA 13171	Lamar, GA	25.6
## 407	GA 13175	Laurens, GA	19.1
## 408	GA 13177	Lee, GA	14.5
## 409	GA 13179	Liberty, GA	10.5
## 410	GA 13181	Lincoln, GA	14.4
## 411	GA 13183	Long, GA	12.8
## 412	GA 13185	Lowndes, GA	10.8
## 413	GA 13187	Lumpkin, GA	18.7
## 414	GA 13189	McDuffie, GA	14.5
## 415	GA 13191	McIntosh, GA	21.8
## 416	GA 13193	Macon, GA	16.0
## 417	GA 13195	Madison, GA	25.8
## 418	GA 13199	Meriwether, GA	17.8
## 419	GA 13201	Miller, GA	19.9
## 420	GA 13205	Mitchell, GA	13.8

## 421	GA 13207	Monroe, GA	14.0
## 422	GA 13211	Morgan, GA	16.2
## 423	GA 13213	Murray, GA	26.5
## 424	GA 13215	Muscogee, GA	15.6
## 425	GA 13217	Newton, GA	15.2
## 426	GA 13219	Oconee, GA	9.9
## 427	GA 13221	Oglethorpe, GA	21.4
## 428	GA 13223	Paulding, GA	18.4
## 429	GA 13225	Peach, GA	18.9
## 430	GA 13227	Pickens, GA	20.0
## 431	GA 13229	Pierce, GA	18.2
## 432	GA 13231	Pike, GA	16.2
## 433	GA 13233	Polk, GA	22.7
## 434	GA 13235	Pulaski, GA	14.1
## 435	GA 13237	Putnam, GA	21.7
## 436	GA 13241	Rabun, GA	29.9
## 437	GA 13245	Richmond, GA	20.7
## 438	GA 13247	Rockdale, GA	16.9
## 439	GA 13251	Screven, GA	15.8
## 440	GA 13253	Seminole, GA	16.2
## 441	GA 13255	Spalding, GA	18.4
## 442	GA 13257	Stephens, GA	27.7
## 443	GA 13261	Sumter, GA	8.7
## 444	GA 13267	Tattnall, GA	17.6
## 445	GA 13269	Taylor, GA	17.9
## 446	GA 13271	Telfair, GA	14.1
## 447	GA 13273	Terrell, GA	14.1
## 448	GA 13275	Thomas, GA	12.4
## 449	GA 13277	Tift, GA	10.5
## 450	GA 13279	Toombs, GA	13.7
## 451	GA 13281	Towns, GA	27.1
## 452	GA 13285	Troup, GA	20.0
## 453	GA 13287	Turner, GA	18.6
## 454	GA 13289	Twiggs, GA	17.6
## 455	GA 13291	Union, GA	17.5
## 456	GA 13293	Upson, GA	21.1
## 457	GA 13295	Walker, GA	20.6
## 458	GA 13297	Walton, GA	18.7
## 459	GA 13299	Ware, GA	20.4
## 460	GA 13303	Washington, GA	17.2
## 461	GA 13305	Wayne, GA	26.1
## 462	GA 13311	White, GA	23.5
## 463	GA 13313	Whitfield, GA	17.2
## 464	GA 13315	Wilcox, GA	15.0
## 465	GA 13317	Wilkes, GA	15.5
## 466	GA 13319	Wilkinson, GA	17.7
## 467	GA 13321	Worth, GA	13.6
## 468	HI 15001	Hawaii, HI	19.3
## 469	HI 15003	Honolulu, HI	14.6
## 470	HI 15007	Kauai, HI	14.7
## 471	HI 15009	Maui, HI	16.6
## 472	IA 19005	Allamakee, IA	10.9
## 473	IA 19007	Appanoose, IA	22.9
## 474	IA 19011	Benton, IA	10.5

## 475	IA 19013	Black Hawk, IA	14.5
## 476	IA 19015	Boone, IA	11.2
## 477	IA 19017	Bremer, IA	10.2
## 478	IA 19019	Buchanan, IA	9.5
## 479	IA 19021	Buena Vista, IA	7.1
## 480	IA 19023	Butler, IA	8.2
## 481	IA 19027	Carroll, IA	9.8
## 482	IA 19029	Cass, IA	10.7
## 483	IA 19031	Cedar, IA	12.1
## 484	IA 19033	Cerro Gordo, IA	20.1
## 485	IA 19035	Cherokee, IA	10.4
## 486	IA 19037	Chickasaw, IA	9.7
## 487	IA 19039	Clarke, IA	15.0
## 488	IA 19041	Clay, IA	10.2
## 489	IA 19043	Clayton, IA	12.5
## 490	IA 19045	Clinton, IA	12.3
## 491	IA 19047	Crawford, IA	10.1
## 492	IA 19049	Dallas, IA	7.5
## 493	IA 19055	Delaware, IA	8.4
## 494	IA 19057	Des Moines, IA	17.8
## 495	IA 19059	Dickinson, IA	19.6
## 496	IA 19061	Dubuque, IA	11.6
## 497	IA 19063	Emmet, IA	13.4
## 498	IA 19065	Fayette, IA	12.6
## 499	IA 19067	Floyd, IA	8.5
## 500	IA 19071	Fremont, IA	14.8
## 501	IA 19073	Greene, IA	12.7
## 502	IA 19077	Guthrie, IA	10.6
## 503	IA 19079	Hamilton, IA	10.5
## 504	IA 19081	Hancock, IA	11.1
## 505	IA 19083	Hardin, IA	10.6
## 506	IA 19085	Harrison, IA	14.8
## 507	IA 19087	Henry, IA	9.9
## 508	IA 19095	Iowa, IA	9.6
## 509	IA 19097	Jackson, IA	13.4
## 510	IA 19099	Jasper, IA	13.8
## 511	IA 19101	Jefferson, IA	13.0
## 512	IA 19103	Johnson, IA	12.0
## 513	IA 19105	Jones, IA	12.7
## 514	IA 19109	Kossuth, IA	9.0
## 515	IA 19111	Lee, IA	19.5
## 516	IA 19113	Linn, IA	17.0
## 517	IA 19115	Louisa, IA	10.4
## 518	IA 19121	Madison, IA	12.9
## 519	IA 19123	Mahaska, IA	12.9
## 520	IA 19125	Marion, IA	14.3
## 521	IA 19127	Marshall, IA	14.4
## 522	IA 19129	Mills, IA	11.2
## 523	IA 19133	Monona, IA	19.4
## 524	IA 19135	Monroe, IA	16.7
## 525	IA 19137	Montgomery, IA	19.8
## 526	IA 19139	Muscatine, IA	11.4
## 527	IA 19145	Page, IA	8.3
## 528	IA 19147	Palo Alto, IA	15.7

## 529	IA 19149	Plymouth, IA	7.8
## 530	IA 19153	Polk, IA	18.4
## 531	IA 19155	Pottawattamie, IA	17.9
## 532	IA 19157	Poweshiek, IA	13.8
## 533	IA 19161	Sac, IA	12.0
## 534	IA 19163	Scott, IA	22.1
## 535	IA 19165	Shelby, IA	11.6
## 536	IA 19167	Sioux, IA	4.2
## 537	IA 19169	Story, IA	9.3
## 538	IA 19171	Tama, IA	16.2
## 539	IA 19175	Union, IA	14.8
## 540	IA 19179	Wapello, IA	14.4
## 541	IA 19181	Warren, IA	9.3
## 542	IA 19183	Washington, IA	10.1
## 543	IA 19187	Webster, IA	18.5
## 544	IA 19191	Winneshiek, IA	5.3
## 545	IA 19193	Woodbury, IA	19.9
## 546	IA 19195	Worth, IA	18.8
## 547	IA 19197	Wright, IA	10.7
## 548	ID 16001	Ada, ID	20.3
## 549	ID 16005	Bannock, ID	31.4
## 550	ID 16007	Bear Lake, ID	25.5
## 551	ID 16009	Benewah, ID	45.7
## 552	ID 16011	Bingham, ID	20.6
## 553	ID 16013	Blaine, ID	18.4
## 554	ID 16017	Bonner, ID	25.7
## 555	ID 16019	Bonneville, ID	25.5
## 556	ID 16021	Boundary, ID	28.4
## 557	ID 16027	Canyon, ID	16.5
## 558	ID 16029	Caribou, ID	17.5
## 559	ID 16031	Cassia, ID	14.5
## 560	ID 16035	Clearwater, ID	33.9
## 561	ID 16039	Elmore, ID	17.7
## 562	ID 16041	Franklin, ID	16.7
## 563	ID 16043	Fremont, ID	18.4
## 564	ID 16045	Gem, ID	27.2
## 565	ID 16047	Gooding, ID	13.1
## 566	ID 16049	Idaho, ID	19.3
## 567	ID 16051	Jefferson, ID	13.2
## 568	ID 16053	Jerome, ID	16.6
## 569	ID 16055	Kootenai, ID	23.3
## 570	ID 16057	Latah, ID	13.6
## 571	ID 16059	Lemhi, ID	37.9
## 572	ID 16065	Madison, ID	4.9
## 573	ID 16067	Minidoka, ID	18.8
## 574	ID 16069	Nez Perce, ID	26.3
## 575	ID 16073	Owyhee, ID	22.4
## 576	ID 16075	Payette, ID	26.6
## 577	ID 16077	Power, ID	21.3
## 578	ID 16079	Shoshone, ID	46.9
## 579	ID 16081	Teton, ID	14.7
## 580	ID 16083	Twin Falls, ID	22.0
## 581	ID 16085	Valley, ID	28.0
## 582	ID 16087	Washington, ID	21.6

## 583	IL 17001	Adams, IL	14.9
## 584	IL 17005	Bond, IL	9.8
## 585	IL 17007	Boone, IL	14.5
## 586	IL 17011	Bureau, IL	16.9
## 587	IL 17015	Carroll, IL	11.7
## 588	IL 17017	Cass, IL	10.7
## 589	IL 17019	Champaign, IL	14.6
## 590	IL 17021	Christian, IL	14.7
## 591	IL 17023	Clark, IL	18.2
## 592	IL 17025	Clay, IL	12.3
## 593	IL 17027	Clinton, IL	7.8
## 594	IL 17029	Coles, IL	13.2
## 595	IL 17031	Cook, IL	17.5
## 596	IL 17033	Crawford, IL	14.5
## 597	IL 17035	Cumberland, IL	10.0
## 598	IL 17037	DeKalb, IL	9.6
## 599	IL 17039	De Witt, IL	18.4
## 600	IL 17041	Douglas, IL	8.9
## 601	IL 17043	DuPage, IL	12.7
## 602	IL 17045	Edgar, IL	12.8
## 603	IL 17049	Effingham, IL	11.8
## 604	IL 17051	Fayette, IL	13.5
## 605	IL 17053	Ford, IL	13.9
## 606	IL 17055	Franklin, IL	22.5
## 607	IL 17057	Fulton, IL	14.1
## 608	IL 17059	Gallatin, IL	21.0
## 609	IL 17061	Greene, IL	12.3
## 610	IL 17063	Grundy, IL	20.8
## 611	IL 17067	Hancock, IL	9.5
## 612	IL 17073	Henry, IL	9.7
## 613	IL 17075	Iroquois, IL	15.2
## 614	IL 17077	Jackson, IL	13.7
## 615	IL 17081	Jefferson, IL	15.0
## 616	IL 17083	Jersey, IL	16.6
## 617	IL 17085	Jo Daviess, IL	15.1
## 618	IL 17087	Johnson, IL	9.6
## 619	IL 17089	Kane, IL	13.3
## 620	IL 17091	Kankakee, IL	17.5
## 621	IL 17093	Kendall, IL	12.5
## 622	IL 17095	Knox, IL	16.1
## 623	IL 17097	Lake, IL	14.8
## 624	IL 17099	LaSalle, IL	25.4
## 625	IL 17101	Lawrence, IL	15.9
## 626	IL 17103	Lee, IL	17.3
## 627	IL 17105	Livingston, IL	19.1
## 628	IL 17107	Logan, IL	11.7
## 629	IL 17109	McDonough, IL	7.7
## 630	IL 17111	McHenry, IL	15.1
## 631	IL 17113	McLean, IL	14.8
## 632	IL 17115	Macon, IL	13.4
## 633	IL 17117	Macoupin, IL	12.4
## 634	IL 17119	Madison, IL	22.0
## 635	IL 17121	Marion, IL	18.4
## 636	IL 17123	Marshall, IL	12.7

## 637	IL 17125	Mason, IL	11.9
## 638	IL 17127	Massac, IL	22.6
## 639	IL 17129	Menard, IL	10.6
## 640	IL 17131	Mercer, IL	12.8
## 641	IL 17133	Monroe, IL	11.1
## 642	IL 17135	Montgomery, IL	14.6
## 643	IL 17137	Morgan, IL	15.9
## 644	IL 17141	Ogle, IL	12.6
## 645	IL 17143	Peoria, IL	19.8
## 646	IL 17145	Perry, IL	14.4
## 647	IL 17147	Piatt, IL	9.8
## 648	IL 17149	Pike, IL	13.0
## 649	IL 17155	Putnam, IL	19.6
## 650	IL 17157	Randolph, IL	16.1
## 651	IL 17159	Richland, IL	12.0
## 652	IL 17161	Rock Island, IL	15.1
## 653	IL 17163	St. Clair, IL	16.1
## 654	IL 17165	Saline, IL	25.8
## 655	IL 17167	Sangamon, IL	17.0
## 656	IL 17173	Shelby, IL	8.7
## 657	IL 17177	Stephenson, IL	16.5
## 658	IL 17179	Tazewell, IL	17.1
## 659	IL 17181	Union, IL	13.4
## 660	IL 17183	Vermilion, IL	20.7
## 661	IL 17185	Wabash, IL	13.2
## 662	IL 17187	Warren, IL	6.8
## 663	IL 17189	Washington, IL	12.0
## 664	IL 17191	Wayne, IL	9.3
## 665	IL 17193	White, IL	12.7
## 666	IL 17195	Whiteside, IL	14.9
## 667	IL 17197	Will, IL	14.3
## 668	IL 17199	Williamson, IL	17.9
## 669	IL 17201	Winnebago, IL	30.7
## 670	IL 17203	Woodford, IL	10.6
## 671	IN 18001	Adams, IN	9.1
## 672	IN 18003	Allen, IN	16.5
## 673	IN 18005	Bartholomew, IN	19.1
## 674	IN 18007	Benton, IN	14.3
## 675	IN 18009	Blackford, IN	26.3
## 676	IN 18011	Boone, IN	15.3
## 677	IN 18013	Brown, IN	15.4
## 678	IN 18015	Carroll, IN	11.9
## 679	IN 18017	Cass, IN	11.3
## 680	IN 18019	Clark, IN	24.2
## 681	IN 18021	Clay, IN	16.4
## 682	IN 18023	Clinton, IN	15.2
## 683	IN 18025	Crawford, IN	24.2
## 684	IN 18027	Daviess, IN	12.3
## 685	IN 18029	Dearborn, IN	23.3
## 686	IN 18031	Decatur, IN	17.8
## 687	IN 18033	De Kalb, IN	15.3
## 688	IN 18035	Delaware, IN	23.7
## 689	IN 18037	Dubois, IN	8.6
## 690	IN 18039	Elkhart, IN	13.6

## 691	IN 18041	Fayette, IN	33.8
## 692	IN 18043	Floyd, IN	21.8
## 693	IN 18045	Fountain, IN	12.8
## 694	IN 18047	Franklin, IN	19.7
## 695	IN 18049	Fulton, IN	12.2
## 696	IN 18051	Gibson, IN	11.7
## 697	IN 18053	Grant, IN	24.2
## 698	IN 18055	Greene, IN	19.5
## 699	IN 18057	Hamilton, IN	10.1
## 700	IN 18059	Hancock, IN	18.1
## 701	IN 18061	Harrison, IN	16.7
## 702	IN 18063	Hendricks, IN	12.8
## 703	IN 18065	Henry, IN	31.2
## 704	IN 18067	Howard, IN	28.0
## 705	IN 18069	Huntington, IN	16.8
## 706	IN 18071	Jackson, IN	21.3
## 707	IN 18073	Jasper, IN	13.9
## 708	IN 18075	Jay, IN	16.6
## 709	IN 18077	Jefferson, IN	20.5
## 710	IN 18079	Jennings, IN	23.7
## 711	IN 18081	Johnson, IN	17.4
## 712	IN 18083	Knox, IN	13.7
## 713	IN 18085	Kosciusko, IN	14.3
## 714	IN 18087	Lagrange, IN	5.9
## 715	IN 18089	Lake, IN	15.4
## 716	IN 18091	La Porte, IN	20.6
## 717	IN 18093	Lawrence, IN	16.8
## 718	IN 18095	Madison, IN	31.8
## 719	IN 18097	Marion, IN	27.6
## 720	IN 18099	Marshall, IN	12.7
## 721	IN 18101	Martin, IN	11.9
## 722	IN 18103	Miami, IN	14.4
## 723	IN 18105	Monroe, IN	19.4
## 724	IN 18107	Montgomery, IN	19.7
## 725	IN 18109	Morgan, IN	19.9
## 726	IN 18111	Newton, IN	15.9
## 727	IN 18113	Noble, IN	13.2
## 728	IN 18117	Orange, IN	12.4
## 729	IN 18119	Owen, IN	15.7
## 730	IN 18121	Parke, IN	14.5
## 731	IN 18123	Perry, IN	15.6
## 732	IN 18125	Pike, IN	13.4
## 733	IN 18127	Porter, IN	19.4
## 734	IN 18129	Posey, IN	15.1
## 735	IN 18131	Pulaski, IN	18.6
## 736	IN 18133	Putnam, IN	14.6
## 737	IN 18135	Randolph, IN	19.0
## 738	IN 18137	Ripley, IN	18.6
## 739	IN 18139	Rush, IN	15.2
## 740	IN 18141	St. Joseph, IN	21.3
## 741	IN 18143	Scott, IN	43.3
## 742	IN 18145	Shelby, IN	21.3
## 743	IN 18147	Spencer, IN	13.1
## 744	IN 18149	Starke, IN	36.0

## 745	IN 18151	Steuben, IN	13.3
## 746	IN 18153	Sullivan, IN	25.4
## 747	IN 18155	Switzerland, IN	20.9
## 748	IN 18157	Tippecanoe, IN	14.3
## 749	IN 18159	Tipton, IN	19.0
## 750	IN 18161	Union, IN	18.9
## 751	IN 18163	Vanderburgh, IN	26.0
## 752	IN 18165	Vermillion, IN	15.0
## 753	IN 18167	Vigo, IN	20.6
## 754	IN 18169	Wabash, IN	21.3
## 755	IN 18173	Warrick, IN	8.8
## 756	IN 18175	Washington, IN	21.1
## 757	IN 18177	Wayne, IN	28.9
## 758	IN 18179	Wells, IN	12.4
## 759	IN 18181	White, IN	18.6
## 760	IN 18183	Whitley, IN	10.4
## 761	KS 20001	Allen, KS	15.6
## 762	KS 20003	Anderson, KS	14.5
## 763	KS 20005	Atchison, KS	13.6
## 764	KS 20009	Barton, KS	10.5
## 765	KS 20011	Bourbon, KS	16.6
## 766	KS 20013	Brown, KS	15.9
## 767	KS 20015	Butler, KS	16.8
## 768	KS 20021	Cherokee, KS	22.3
## 769	KS 20027	Clay, KS	21.5
## 770	KS 20031	Coffey, KS	16.8
## 771	KS 20035	Cowley, KS	21.8
## 772	KS 20037	Crawford, KS	17.0
## 773	KS 20041	Dickinson, KS	15.2
## 774	KS 20045	Douglas, KS	13.2
## 775	KS 20051	Ellis, KS	12.0
## 776	KS 20055	Finney, KS	15.1
## 777	KS 20057	Ford, KS	11.4
## 778	KS 20059	Franklin, KS	18.3
## 779	KS 20061	Geary, KS	16.3
## 780	KS 20073	Greenwood, KS	24.0
## 781	KS 20077	Harper, KS	25.5
## 782	KS 20079	Harvey, KS	17.1
## 783	KS 20085	Jackson, KS	9.3
## 784	KS 20087	Jefferson, KS	15.3
## 785	KS 20091	Johnson, KS	12.4
## 786	KS 20099	Labette, KS	19.2
## 787	KS 20103	Leavenworth, KS	17.9
## 788	KS 20107	Linn, KS	17.2
## 789	KS 20111	Lyon, KS	12.6
## 790	KS 20113	McPherson, KS	10.8
## 791	KS 20115	Marion, KS	13.5
## 792	KS 20121	Miami, KS	14.8
## 793	KS 20125	Montgomery, KS	23.5
## 794	KS 20133	Neosho, KS	18.4
## 795	KS 20139	Osage, KS	18.3
## 796	KS 20145	Pawnee, KS	15.9
## 797	KS 20149	Pottawatomie, KS	13.7
## 798	KS 20151	Pratt, KS	18.4



## 799	KS 20155	Reno, KS	20.0
## 800	KS 20159	Rice, KS	19.0
## 801	KS 20161	Riley, KS	10.3
## 802	KS 20167	Russell, KS	25.3
## 803	KS 20169	Saline, KS	20.1
## 804	KS 20173	Sedgwick, KS	21.5
## 805	KS 20175	Seward, KS	12.2
## 806	KS 20177	Shawnee, KS	23.7
## 807	KS 20191	Sumner, KS	20.0
## 808	KS 20205	Wilson, KS	18.5
## 809	KS 20209	Wyandotte, KS	17.4
## 810	KY 21001	Adair, KY	14.8
## 811	KY 21003	Allen, KY	19.2
## 812	KY 21005	Anderson, KY	23.9
## 813	KY 21007	Ballard, KY	17.5
## 814	KY 21009	Barren, KY	13.7
## 815	KY 21011	Bath, KY	28.7
## 816	KY 21013	Bell, KY	53.8
## 817	KY 21015	Boone, KY	24.6
## 818	KY 21017	Bourbon, KY	24.4
## 819	KY 21019	Boyd, KY	31.3
## 820	KY 21021	Boyle, KY	21.4
## 821	KY 21023	Bracken, KY	13.2
## 822	KY 21025	Breathitt, KY	44.6
## 823	KY 21027	Breckinridge, KY	19.3
## 824	KY 21029	Bullitt, KY	18.6
## 825	KY 21031	Butler, KY	22.4
## 826	KY 21033	Caldwell, KY	17.3
## 827	KY 21035	Calloway, KY	13.3
## 828	KY 21037	Campbell, KY	37.5
## 829	KY 21041	Carroll, KY	35.7
## 830	KY 21043	Carter, KY	27.8
## 831	KY 21045	Casey, KY	20.7
## 832	KY 21047	Christian, KY	13.5
## 833	KY 21049	Clark, KY	37.9
## 834	KY 21051	Clay, KY	38.5
## 835	KY 21053	Clinton, KY	45.5
## 836	KY 21055	Crittenden, KY	21.6
## 837	KY 21057	Cumberland, KY	32.7
## 838	KY 21059	Daviess, KY	23.7
## 839	KY 21061	Edmonson, KY	16.7
## 840	KY 21063	Elliott, KY	26.8
## 841	KY 21065	Estill, KY	36.4
## 842	KY 21067	Fayette, KY	28.4
## 843	KY 21069	Fleming, KY	20.6
## 844	KY 21071	Floyd, KY	51.8
## 845	KY 21073	Franklin, KY	22.1
## 846	KY 21077	Gallatin, KY	36.1
## 847	KY 21079	Garrard, KY	27.9
## 848	KY 21081	Grant, KY	31.6
## 849	KY 21083	Graves, KY	16.3
## 850	KY 21085	Grayson, KY	27.9
## 851	KY 21087	Green, KY	10.3
## 852	KY 21089	Greenup, KY	26.4

## 853	KY 21091	Hancock, KY	13.0
## 854	KY 21093	Hardin, KY	17.3
## 855	KY 21095	Harlan, KY	42.2
## 856	KY 21097	Harrison, KY	31.0
## 857	KY 21099	Hart, KY	16.0
## 858	KY 21101	Henderson, KY	18.1
## 859	KY 21103	Henry, KY	20.2
## 860	KY 21107	Hopkins, KY	21.7
## 861	KY 21109	Jackson, KY	14.8
## 862	KY 21111	Jefferson, KY	26.0
## 863	KY 21113	Jessamine, KY	26.9
## 864	KY 21115	Johnson, KY	38.6
## 865	KY 21117	Kenton, KY	40.8
## 866	KY 21119	Knott, KY	38.3
## 867	KY 21121	Knox, KY	34.6
## 868	KY 21123	Larue, KY	12.8
## 869	KY 21125	Laurel, KY	22.2
## 870	KY 21127	Lawrence, KY	31.0
## 871	KY 21129	Lee, KY	36.8
## 872	KY 21131	Leslie, KY	44.7
## 873	KY 21133	Letcher, KY	37.4
## 874	KY 21135	Lewis, KY	21.2
## 875	KY 21137	Lincoln, KY	24.2
## 876	KY 21139	Livingston, KY	26.2
## 877	KY 21141	Logan, KY	16.8
## 878	KY 21143	Lyon, KY	16.1
## 879	KY 21145	McCracken, KY	23.5
## 880	KY 21147	McCreary, KY	22.9
## 881	KY 21149	McLean, KY	23.0
## 882	KY 21151	Madison, KY	22.2
## 883	KY 21153	Magoffin, KY	39.2
## 884	KY 21155	Marion, KY	23.1
## 885	KY 21157	Marshall, KY	26.2
## 886	KY 21159	Martin, KY	44.7
## 887	KY 21161	Mason, KY	26.9
## 888	KY 21163	Meade, KY	20.2
## 889	KY 21165	Menifee, KY	25.0
## 890	KY 21167	Mercer, KY	26.0
## 891	KY 21169	Metcalfe, KY	14.9
## 892	KY 21171	Monroe, KY	27.9
## 893	KY 21173	Montgomery, KY	24.8
## 894	KY 21175	Morgan, KY	16.0
## 895	KY 21177	Muhlenberg, KY	22.6
## 896	KY 21179	Nelson, KY	17.7
## 897	KY 21181	Nicholas, KY	29.9
## 898	KY 21183	Ohio, KY	21.4
## 899	KY 21185	Oldham, KY	11.9
## 900	KY 21187	Owen, KY	26.8
## 901	KY 21189	Owsley, KY	43.5
## 902	KY 21191	Pendleton, KY	24.2
## 903	KY 21193	Perry, KY	45.0
## 904	KY 21195	Pike, KY	41.9
## 905	KY 21197	Powell, KY	56.0
## 906	KY 21199	Pulaski, KY	22.2

## 907	KY 21203	Rockcastle, KY	30.6
## 908	KY 21205	Rowan, KY	25.1
## 909	KY 21207	Russell, KY	34.9
## 910	KY 21209	Scott, KY	17.7
## 911	KY 21211	Shelby, KY	11.0
## 912	KY 21213	Simpson, KY	18.8
## 913	KY 21215	Spencer, KY	15.7
## 914	KY 21217	Taylor, KY	25.1
## 915	KY 21219	Todd, KY	15.0
## 916	KY 21221	Trigg, KY	15.8
## 917	KY 21223	Trimble, KY	16.6
## 918	KY 21225	Union, KY	31.4
## 919	KY 21227	Warren, KY	15.4
## 920	KY 21229	Washington, KY	15.9
## 921	KY 21231	Wayne, KY	17.6
## 922	KY 21233	Webster, KY	19.0
## 923	KY 21235	Whitley, KY	39.6
## 924	KY 21237	Wolfe, KY	55.7
## 925	KY 21239	Woodford, KY	24.8
## 926	LA 22001	Acadia, LA	24.0
## 927	LA 22003	Allen, LA	13.9
## 928	LA 22005	Ascension, LA	14.0
## 929	LA 22007	Assumption, LA	13.1
## 930	LA 22009	Avoyelles, LA	16.3
## 931	LA 22011	Beauregard, LA	18.1
## 932	LA 22013	Bienville, LA	12.9
## 933	LA 22015	Bossier, LA	18.7
## 934	LA 22017	Caddo, LA	22.5
## 935	LA 22019	Calcasieu, LA	21.0
## 936	LA 22021	Caldwell, LA	17.4
## 937	LA 22025	Catahoula, LA	13.8
## 938	LA 22027	Claiborne, LA	15.8
## 939	LA 22029	Concordia, LA	15.3
## 940	LA 22031	De Soto, LA	17.7
## 941	LA 22033	East Baton Rouge, LA	12.4
## 942	LA 22037	East Feliciana, LA	8.2
## 943	LA 22039	Evangeline, LA	19.4
## 944	LA 22041	Franklin, LA	9.6
## 945	LA 22043	Grant, LA	17.0
## 946	LA 22045	Iberia, LA	16.8
## 947	LA 22047	Iberville, LA	12.0
## 948	LA 22049	Jackson, LA	11.2
## 949	LA 22051	Jefferson, LA	29.1
## 950	LA 22053	Jefferson Davis, LA	21.1
## 951	LA 22055	Lafayette, LA	17.9
## 952	LA 22057	Lafourche, LA	15.0
## 953	LA 22059	LaSalle, LA	18.6
## 954	LA 22061	Lincoln, LA	12.4
## 955	LA 22063	Livingston, LA	28.3
## 956	LA 22065	Madison, LA	9.3
## 957	LA 22067	Morehouse, LA	15.3
## 958	LA 22069	Natchitoches, LA	14.2
## 959	LA 22071	Orleans, LA	24.8
## 960	LA 22073	Ouachita, LA	17.5

## 961	LA 22075	Plaquemines, LA	24.9
## 962	LA 22077	Pointe Coupee, LA	15.3
## 963	LA 22079	Rapides, LA	15.8
## 964	LA 22083	Richland, LA	6.7
## 965	LA 22085	Sabine, LA	13.9
## 966	LA 22087	St. Bernard, LA	42.9
## 967	LA 22089	St. Charles, LA	19.2
## 968	LA 22091	St. Helena, LA	24.8
## 969	LA 22093	St. James, LA	7.4
## 970	LA 22095	St. John the Baptist, LA	15.0
## 971	LA 22097	St. Landry, LA	21.0
## 972	LA 22099	St. Martin, LA	12.0
## 973	LA 22101	St. Mary, LA	20.4
## 974	LA 22103	St. Tammany, LA	27.6
## 975	LA 22105	Tangipahoa, LA	23.5
## 976	LA 22109	Terrebonne, LA	19.5
## 977	LA 22111	Union, LA	11.0
## 978	LA 22113	Vermilion, LA	12.4
## 979	LA 22115	Vernon, LA	11.7
## 980	LA 22117	Washington, LA	28.4
## 981	LA 22119	Webster, LA	19.9
## 982	LA 22121	West Baton Rouge, LA	17.7
## 983	LA 22123	West Carroll, LA	13.2
## 984	LA 22125	West Feliciana, LA	11.2
## 985	LA 22127	Winn, LA	26.0
## 986	MA 25001	Barnstable, MA	28.7
## 987	MA 25003	Berkshire, MA	22.2
## 988	MA 25005	Bristol, MA	30.6
## 989	MA 25007	Dukes, MA	19.2
## 990	MA 25009	Essex, MA	24.2
## 991	MA 25011	Franklin, MA	21.0
## 992	MA 25013	Hampden, MA	23.3
## 993	MA 25015	Hampshire, MA	17.3
## 994	MA 25017	Middlesex, MA	18.2
## 995	MA 25019	Nantucket, MA	13.3
## 996	MA 25021	Norfolk, MA	18.8
## 997	MA 25023	Plymouth, MA	22.8
## 998	MA 25025	Suffolk, MA	26.1
## 999	MA 25027	Worcester, MA	22.7
## 1000	MD 24001	Allegany, MD	25.4
## 1001	MD 24003	Anne Arundel, MD	21.9
## 1002	MD 24005	Baltimore, MD	24.7
## 1003	MD 24009	Calvert, MD	20.6
## 1004	MD 24011	Caroline, MD	23.4
## 1005	MD 24013	Carroll, MD	20.1
## 1006	MD 24015	Cecil, MD	31.1
## 1007	MD 24017	Charles, MD	15.9
## 1008	MD 24019	Dorchester, MD	22.4
## 1009	MD 24021	Frederick, MD	15.7
## 1010	MD 24023	Garrett, MD	13.4
## 1011	MD 24025	Harford, MD	20.8
## 1012	MD 24027	Howard, MD	10.1
## 1013	MD 24029	Kent, MD	23.4
## 1014	MD 24031	Montgomery, MD	8.3

## 1015	MD 24033	Prince George's, MD	11.9
## 1016	MD 24035	Queen Anne's, MD	18.9
## 1017	MD 24037	St. Mary's, MD	16.0
## 1018	MD 24039	Somerset, MD	20.2
## 1019	MD 24041	Talbot, MD	19.5
## 1020	MD 24043	Washington, MD	21.7
## 1021	MD 24045	Wicomico, MD	17.4
## 1022	MD 24047	Worcester, MD	25.9
## 1023	MD 24510	Baltimore, MD	52.2
## 1024	ME 23001	Androscoggin, ME	23.3
## 1025	ME 23003	Aroostook, ME	19.3
## 1026	ME 23005	Cumberland, ME	22.4
## 1027	ME 23007	Franklin, ME	17.1
## 1028	ME 23009	Hancock, ME	24.6
## 1029	ME 23011	Kennebec, ME	23.9
## 1030	ME 23013	Knox, ME	24.0
## 1031	ME 23015	Lincoln, ME	22.8
## 1032	ME 23017	Oxford, ME	20.2
## 1033	ME 23019	Penobscot, ME	23.5
## 1034	ME 23021	Piscataquis, ME	22.8
## 1035	ME 23023	Sagadahoc, ME	15.2
## 1036	ME 23025	Somerset, ME	22.1
## 1037	ME 23027	Waldo, ME	22.6
## 1038	ME 23029	Washington, ME	32.4
## 1039	ME 23031	York, ME	21.5
## 1040	MI 26001	Alcona, MI	19.0
## 1041	MI 26003	Alger, MI	19.1
## 1042	MI 26005	Allegan, MI	16.8
## 1043	MI 26007	Alpena, MI	22.2
## 1044	MI 26009	Antrim, MI	20.5
## 1045	MI 26011	Arenac, MI	19.7
## 1046	MI 26013	Baraga, MI	21.5
## 1047	MI 26015	Barry, MI	16.4
## 1048	MI 26017	Bay, MI	23.7
## 1049	MI 26019	Benzie, MI	19.3
## 1050	MI 26021	Berrien, MI	23.9
## 1051	MI 26023	Branch, MI	17.8
## 1052	MI 26025	Calhoun, MI	35.4
## 1053	MI 26027	Cass, MI	17.8
## 1054	MI 26029	Charlevoix, MI	15.7
## 1055	MI 26031	Cheboygan, MI	23.3
## 1056	MI 26033	Chippewa, MI	23.3
## 1057	MI 26035	Clare, MI	27.1
## 1058	MI 26037	Clinton, MI	11.1
## 1059	MI 26039	Crawford, MI	31.6
## 1060	MI 26041	Delta, MI	16.6
## 1061	MI 26043	Dickinson, MI	19.0
## 1062	MI 26045	Eaton, MI	15.9
## 1063	MI 26047	Emmet, MI	19.2
## 1064	MI 26049	Genesee, MI	29.4
## 1065	MI 26051	Gladwin, MI	23.3
## 1066	MI 26053	Gogebic, MI	22.5
## 1067	MI 26055	Grand Traverse, MI	21.7
## 1068	MI 26057	Gratiot, MI	9.5

## 1069	MI 26059	Hillsdale, MI	16.5
## 1070	MI 26061	Houghton, MI	21.3
## 1071	MI 26063	Huron, MI	16.4
## 1072	MI 26065	Ingham, MI	20.6
## 1073	MI 26067	Ionia, MI	14.1
## 1074	MI 26069	Iosco, MI	26.0
## 1075	MI 26071	Iron, MI	21.5
## 1076	MI 26073	Isabella, MI	13.4
## 1077	MI 26075	Jackson, MI	24.7
## 1078	MI 26077	Kalamazoo, MI	19.7
## 1079	MI 26079	Kalkaska, MI	19.7
## 1080	MI 26081	Kent, MI	18.5
## 1081	MI 26085	Lake, MI	23.7
## 1082	MI 26087	Lapeer, MI	17.0
## 1083	MI 26089	Leelanau, MI	13.9
## 1084	MI 26091	Lenawee, MI	15.3
## 1085	MI 26093	Livingston, MI	18.2
## 1086	MI 26095	Luce, MI	19.0
## 1087	MI 26097	Mackinac, MI	19.1
## 1088	MI 26099	Macomb, MI	30.2
## 1089	MI 26101	Manistee, MI	29.2
## 1090	MI 26103	Marquette, MI	23.7
## 1091	MI 26105	Mason, MI	19.2
## 1092	MI 26107	Mecosta, MI	13.9
## 1093	MI 26109	Menominee, MI	16.9
## 1094	MI 26111	Midland, MI	14.2
## 1095	MI 26113	Missaukee, MI	17.9
## 1096	MI 26115	Monroe, MI	25.7
## 1097	MI 26117	Montcalm, MI	16.0
## 1098	MI 26119	Montmorency, MI	23.6
## 1099	MI 26121	Muskegon, MI	24.9
## 1100	MI 26123	Newaygo, MI	20.2
## 1101	MI 26125	Oakland, MI	21.6
## 1102	MI 26127	Oceana, MI	19.9
## 1103	MI 26129	Ogemaw, MI	26.7
## 1104	MI 26131	Ontonagon, MI	26.2
## 1105	MI 26133	Osceola, MI	15.4
## 1106	MI 26135	Oscoda, MI	21.8
## 1107	MI 26137	Otsego, MI	22.5
## 1108	MI 26139	Ottawa, MI	12.8
## 1109	MI 26141	Presque Isle, MI	27.6
## 1110	MI 26143	Roscommon, MI	31.2
## 1111	MI 26145	Saginaw, MI	23.1
## 1112	MI 26147	St. Clair, MI	29.2
## 1113	MI 26149	St. Joseph, MI	17.6
## 1114	MI 26151	Sanilac, MI	19.4
## 1115	MI 26153	Schoolcraft, MI	25.2
## 1116	MI 26155	Shiawassee, MI	21.3
## 1117	MI 26157	Tuscola, MI	16.5
## 1118	MI 26159	Van Buren, MI	22.9
## 1119	MI 26161	Washtenaw, MI	18.9
## 1120	MI 26163	Wayne, MI	30.2
## 1121	MI 26165	Wexford, MI	25.9
## 1122	MN 27001	Aitkin, MN	25.9

## 1123	MN 27003	Anoka, MN	15.8
## 1124	MN 27005	Becker, MN	18.4
## 1125	MN 27007	Beltrami, MN	18.9
## 1126	MN 27009	Benton, MN	17.7
## 1127	MN 27011	Big Stone, MN	20.6
## 1128	MN 27013	Blue Earth, MN	10.5
## 1129	MN 27015	Brown, MN	8.3
## 1130	MN 27017	Carlton, MN	26.2
## 1131	MN 27019	Carver, MN	11.1
## 1132	MN 27021	Cass, MN	27.7
## 1133	MN 27023	Chippewa, MN	9.4
## 1134	MN 27025	Chisago, MN	16.9
## 1135	MN 27027	Clay, MN	17.6
## 1136	MN 27029	Clearwater, MN	20.7
## 1137	MN 27033	Cottonwood, MN	11.3
## 1138	MN 27035	Crow Wing, MN	18.5
## 1139	MN 27037	Dakota, MN	13.8
## 1140	MN 27039	Dodge, MN	8.6
## 1141	MN 27041	Douglas, MN	8.8
## 1142	MN 27043	Faribault, MN	13.7
## 1143	MN 27045	Fillmore, MN	12.7
## 1144	MN 27047	Freeborn, MN	14.1
## 1145	MN 27049	Goodhue, MN	15.8
## 1146	MN 27053	Hennepin, MN	19.7
## 1147	MN 27055	Houston, MN	12.7
## 1148	MN 27057	Hubbard, MN	17.1
## 1149	MN 27059	Isanti, MN	13.6
## 1150	MN 27061	Itasca, MN	19.3
## 1151	MN 27065	Kanabec, MN	10.8
## 1152	MN 27067	Kandiyohi, MN	11.2
## 1153	MN 27071	Koochiching, MN	16.4
## 1154	MN 27075	Lake, MN	19.8
## 1155	MN 27079	Le Sueur, MN	10.5
## 1156	MN 27083	Lyon, MN	10.7
## 1157	MN 27085	McLeod, MN	13.1
## 1158	MN 27087	Mahnomen, MN	36.4
## 1159	MN 27091	Martin, MN	14.1
## 1160	MN 27093	Meeker, MN	12.3
## 1161	MN 27095	Mille Lacs, MN	26.6
## 1162	MN 27097	Morrison, MN	16.0
## 1163	MN 27099	Mower, MN	16.7
## 1164	MN 27103	Nicollet, MN	8.2
## 1165	MN 27105	Nobles, MN	5.3
## 1166	MN 27109	Olmsted, MN	13.0
## 1167	MN 27111	Otter Tail, MN	13.6
## 1168	MN 27113	Pennington, MN	16.1
## 1169	MN 27115	Pine, MN	15.2
## 1170	MN 27119	Polk, MN	19.3
## 1171	MN 27121	Pope, MN	10.5
## 1172	MN 27123	Ramsey, MN	17.7
## 1173	MN 27127	Redwood, MN	15.2
## 1174	MN 27129	Renville, MN	17.3
## 1175	MN 27131	Rice, MN	10.2
## 1176	MN 27133	Rock, MN	12.7

## 1177	MN 27135	Roseau, MN	11.5
## 1178	MN 27137	St. Louis, MN	28.0
## 1179	MN 27139	Scott, MN	10.4
## 1180	MN 27141	Sherburne, MN	12.4
## 1181	MN 27143	Sibley, MN	14.3
## 1182	MN 27145	Stearns, MN	12.3
## 1183	MN 27147	Steele, MN	12.1
## 1184	MN 27151	Swift, MN	14.6
## 1185	MN 27153	Todd, MN	12.2
## 1186	MN 27157	Wabasha, MN	10.0
## 1187	MN 27159	Wadena, MN	14.5
## 1188	MN 27161	Waseca, MN	10.1
## 1189	MN 27163	Washington, MN	10.0
## 1190	MN 27169	Winona, MN	13.6
## 1191	MN 27171	Wright, MN	10.2
## 1192	MN 27173	Yellow Medicine, MN	13.2
## 1193	MO 29001	Adair, MO	13.6
## 1194	MO 29003	Andrew, MO	8.2
## 1195	MO 29007	Audrain, MO	13.8
## 1196	MO 29009	Barry, MO	14.5
## 1197	MO 29011	Barton, MO	18.6
## 1198	MO 29013	Bates, MO	23.4
## 1199	MO 29015	Benton, MO	29.2
## 1200	MO 29017	Bollinger, MO	9.0
## 1201	MO 29019	Boone, MO	15.9
## 1202	MO 29021	Buchanan, MO	17.2
## 1203	MO 29023	Butler, MO	30.6
## 1204	MO 29025	Caldwell, MO	15.7
## 1205	MO 29027	Callaway, MO	19.8
## 1206	MO 29029	Camden, MO	22.9
## 1207	MO 29031	Cape Girardeau, MO	13.9
## 1208	MO 29033	Carroll, MO	13.3
## 1209	MO 29037	Cass, MO	15.5
## 1210	MO 29039	Cedar, MO	21.1
## 1211	MO 29043	Christian, MO	15.7
## 1212	MO 29047	Clay, MO	19.9
## 1213	MO 29049	Clinton, MO	18.7
## 1214	MO 29051	Cole, MO	16.0
## 1215	MO 29053	Cooper, MO	13.1
## 1216	MO 29055	Crawford, MO	21.6
## 1217	MO 29057	Dade, MO	19.9
## 1218	MO 29059	Dallas, MO	18.6
## 1219	MO 29065	Dent, MO	26.4
## 1220	MO 29067	Douglas, MO	9.9
## 1221	MO 29069	Dunklin, MO	22.8
## 1222	MO 29071	Franklin, MO	22.8
## 1223	MO 29073	Gasconade, MO	21.9
## 1224	MO 29077	Greene, MO	31.0
## 1225	MO 29079	Grundy, MO	14.1
## 1226	MO 29081	Harrison, MO	15.8
## 1227	MO 29083	Henry, MO	14.5
## 1228	MO 29085	Hickory, MO	19.7
## 1229	MO 29091	Howell, MO	24.0
## 1230	MO 29093	Iron, MO	22.1



## 1231	MO 29095	Jackson, MO	25.2
## 1232	MO 29097	Jasper, MO	15.4
## 1233	MO 29099	Jefferson, MO	24.2
## 1234	MO 29101	Johnson, MO	7.3
## 1235	MO 29105	Laclede, MO	9.8
## 1236	MO 29107	Lafayette, MO	12.3
## 1237	MO 29109	Lawrence, MO	20.5
## 1238	MO 29111	Lewis, MO	10.8
## 1239	MO 29113	Lincoln, MO	16.1
## 1240	MO 29115	Linn, MO	9.9
## 1241	MO 29117	Livingston, MO	21.0
## 1242	MO 29119	McDonald, MO	15.0
## 1243	MO 29121	Macon, MO	11.8
## 1244	MO 29123	Madison, MO	23.8
## 1245	MO 29127	Marion, MO	17.9
## 1246	MO 29131	Miller, MO	17.9
## 1247	MO 29133	Mississippi, MO	12.8
## 1248	MO 29135	Moniteau, MO	9.0
## 1249	MO 29137	Monroe, MO	12.9
## 1250	MO 29139	Montgomery, MO	15.2
## 1251	MO 29141	Morgan, MO	16.8
## 1252	MO 29143	New Madrid, MO	16.4
## 1253	MO 29145	Newton, MO	13.8
## 1254	MO 29149	Oregon, MO	15.1
## 1255	MO 29151	Osage, MO	10.7
## 1256	MO 29153	Ozark, MO	22.1
## 1257	MO 29155	Pemiscot, MO	22.2
## 1258	MO 29157	Perry, MO	14.2
## 1259	MO 29159	Pettis, MO	15.6
## 1260	MO 29161	Phelps, MO	18.1
## 1261	MO 29163	Pike, MO	10.5
## 1262	MO 29165	Platte, MO	15.9
## 1263	MO 29167	Polk, MO	21.3
## 1264	MO 29169	Pulaski, MO	21.3
## 1265	MO 29175	Randolph, MO	15.5
## 1266	MO 29177	Ray, MO	14.7
## 1267	MO 29179	Reynolds, MO	17.6
## 1268	MO 29181	Ripley, MO	16.8
## 1269	MO 29183	St. Charles, MO	15.9
## 1270	MO 29186	Ste. Genevieve, MO	21.6
## 1271	MO 29187	St. Francois, MO	32.8
## 1272	MO 29189	St. Louis, MO	16.9
## 1273	MO 29195	Saline, MO	12.9
## 1274	MO 29201	Scott, MO	19.4
## 1275	MO 29203	Shannon, MO	16.7
## 1276	MO 29207	Stoddard, MO	14.7
## 1277	MO 29209	Stone, MO	18.7
## 1278	MO 29213	Taney, MO	18.1
## 1279	MO 29215	Texas, MO	14.4
## 1280	MO 29217	Vernon, MO	17.1
## 1281	MO 29219	Warren, MO	20.9
## 1282	MO 29221	Washington, MO	23.4
## 1283	MO 29223	Wayne, MO	27.4
## 1284	MO 29225	Webster, MO	17.6

## 1285	MO 29229	Wright, MO	13.6
## 1286	MO 29510	St. Louis, MO	38.1
## 1287	MS 28001	Adams, MS	13.7
## 1288	MS 28003	Alcorn, MS	16.7
## 1289	MS 28005	Amite, MS	11.4
## 1290	MS 28007	Attala, MS	12.3
## 1291	MS 28011	Bolivar, MS	9.7
## 1292	MS 28013	Calhoun, MS	9.3
## 1293	MS 28017	Chickasaw, MS	11.7
## 1294	MS 28023	Clarke, MS	15.1
## 1295	MS 28025	Clay, MS	10.3
## 1296	MS 28027	Coahoma, MS	19.2
## 1297	MS 28029	Copiah, MS	14.3
## 1298	MS 28031	Covington, MS	13.7
## 1299	MS 28033	DeSoto, MS	14.2
## 1300	MS 28035	Forrest, MS	14.6
## 1301	MS 28039	George, MS	20.6
## 1302	MS 28043	Grenada, MS	12.3
## 1303	MS 28045	Hancock, MS	34.2
## 1304	MS 28047	Harrison, MS	25.9
## 1305	MS 28049	Hinds, MS	10.4
## 1306	MS 28051	Holmes, MS	8.2
## 1307	MS 28057	Itawamba, MS	18.7
## 1308	MS 28059	Jackson, MS	26.8
## 1309	MS 28061	Jasper, MS	12.2
## 1310	MS 28065	Jefferson Davis, MS	11.4
## 1311	MS 28067	Jones, MS	12.6
## 1312	MS 28069	Kemper, MS	12.8
## 1313	MS 28071	Lafayette, MS	11.0
## 1314	MS 28073	Lamar, MS	13.3
## 1315	MS 28075	Lauderdale, MS	10.3
## 1316	MS 28077	Lawrence, MS	12.4
## 1317	MS 28079	Leake, MS	11.7
## 1318	MS 28081	Lee, MS	17.6
## 1319	MS 28083	Leflore, MS	12.7
## 1320	MS 28085	Lincoln, MS	12.8
## 1321	MS 28087	Lowndes, MS	13.2
## 1322	MS 28089	Madison, MS	14.0
## 1323	MS 28091	Marion, MS	25.8
## 1324	MS 28093	Marshall, MS	13.5
## 1325	MS 28095	Monroe, MS	11.5
## 1326	MS 28097	Montgomery, MS	17.9
## 1327	MS 28099	Neshoba, MS	18.4
## 1328	MS 28101	Newton, MS	11.3
## 1329	MS 28105	Oktibbeha, MS	5.8
## 1330	MS 28107	Panola, MS	18.5
## 1331	MS 28109	Pearl River, MS	29.2
## 1332	MS 28111	Perry, MS	15.0
## 1333	MS 28113	Pike, MS	12.2
## 1334	MS 28115	Pontotoc, MS	16.0
## 1335	MS 28117	Prentiss, MS	13.3
## 1336	MS 28119	Quitman, MS	21.6
## 1337	MS 28121	Rankin, MS	14.8
## 1338	MS 28123	Scott, MS	10.6

## 1339	MS 28127	Simpson, MS	15.6
## 1340	MS 28129	Smith, MS	12.3
## 1341	MS 28131	Stone, MS	20.5
## 1342	MS 28133	Sunflower, MS	9.9
## 1343	MS 28135	Tallahatchie, MS	15.1
## 1344	MS 28137	Tate, MS	17.2
## 1345	MS 28139	Tippah, MS	9.0
## 1346	MS 28141	Tishomingo, MS	31.5
## 1347	MS 28143	Tunica, MS	11.9
## 1348	MS 28145	Union, MS	8.3
## 1349	MS 28147	Walthall, MS	15.8
## 1350	MS 28149	Warren, MS	14.6
## 1351	MS 28151	Washington, MS	13.3
## 1352	MS 28153	Wayne, MS	17.5
## 1353	MS 28155	Webster, MS	20.3
## 1354	MS 28159	Winston, MS	17.8
## 1355	MS 28161	Yalobusha, MS	14.8
## 1356	MS 28163	Yazoo, MS	14.1
## 1357	MT 30001	Beaverhead, MT	17.6
## 1358	MT 30003	Big Horn, MT	51.9
## 1359	MT 30005	Blaine, MT	41.0
## 1360	MT 30009	Carbon, MT	23.4
## 1361	MT 30013	Cascade, MT	26.5
## 1362	MT 30017	Custer, MT	26.2
## 1363	MT 30021	Dawson, MT	21.5
## 1364	MT 30023	Deer Lodge, MT	36.0
## 1365	MT 30027	Fergus, MT	26.9
## 1366	MT 30029	Flathead, MT	24.2
## 1367	MT 30031	Gallatin, MT	12.1
## 1368	MT 30035	Glacier, MT	68.9
## 1369	MT 30041	Hill, MT	33.5
## 1370	MT 30043	Jefferson, MT	17.8
## 1371	MT 30047	Lake, MT	36.3
## 1372	MT 30049	Lewis and Clark, MT	25.8
## 1373	MT 30053	Lincoln, MT	29.8
## 1374	MT 30057	Madison, MT	21.0
## 1375	MT 30061	Mineral, MT	50.1
## 1376	MT 30063	Missoula, MT	23.9
## 1377	MT 30067	Park, MT	36.8
## 1378	MT 30073	Pondera, MT	23.2
## 1379	MT 30077	Powell, MT	36.4
## 1380	MT 30081	Ravalli, MT	22.5
## 1381	MT 30083	Richland, MT	24.4
## 1382	MT 30085	Roosevelt, MT	78.9
## 1383	MT 30087	Rosebud, MT	35.4
## 1384	MT 30089	Sanders, MT	33.2
## 1385	MT 30093	Silver Bow, MT	37.2
## 1386	MT 30095	Stillwater, MT	13.2
## 1387	MT 30101	Toole, MT	22.7
## 1388	MT 30105	Valley, MT	18.5
## 1389	MT 30111	Yellowstone, MT	26.7
## 1390	NC 37001	Alamance, NC	18.9
## 1391	NC 37003	Alexander, NC	26.7
## 1392	NC 37005	Alleghany, NC	28.6

## 1393	NC 37007	Anson, NC	18.7
## 1394	NC 37009	Ashe, NC	28.8
## 1395	NC 37011	Avery, NC	29.1
## 1396	NC 37013	Beaufort, NC	23.0
## 1397	NC 37015	Bertie, NC	12.8
## 1398	NC 37017	Bladen, NC	20.1
## 1399	NC 37019	Brunswick, NC	30.8
## 1400	NC 37021	Buncombe, NC	23.2
## 1401	NC 37023	Burke, NC	32.9
## 1402	NC 37025	Cabarrus, NC	19.2
## 1403	NC 37027	Caldwell, NC	29.1
## 1404	NC 37031	Carteret, NC	34.4
## 1405	NC 37033	Caswell, NC	18.2
## 1406	NC 37035	Catawba, NC	26.3
## 1407	NC 37037	Chatham, NC	12.9
## 1408	NC 37039	Cherokee, NC	39.4
## 1409	NC 37041	Chowan, NC	20.5
## 1410	NC 37043	Clay, NC	31.5
## 1411	NC 37045	Cleveland, NC	26.4
## 1412	NC 37047	Columbus, NC	23.7
## 1413	NC 37049	Craven, NC	24.0
## 1414	NC 37051	Cumberland, NC	17.5
## 1415	NC 37053	Currituck, NC	17.6
## 1416	NC 37055	Dare, NC	31.7
## 1417	NC 37057	Davidson, NC	23.2
## 1418	NC 37059	Davie, NC	22.1
## 1419	NC 37061	Duplin, NC	14.2
## 1420	NC 37063	Durham, NC	14.7
## 1421	NC 37065	Edgecombe, NC	25.9
## 1422	NC 37067	Forsyth, NC	19.7
## 1423	NC 37069	Franklin, NC	19.5
## 1424	NC 37071	Gaston, NC	30.8
## 1425	NC 37073	Gates, NC	12.7
## 1426	NC 37075	Graham, NC	34.0
## 1427	NC 37077	Granville, NC	18.4
## 1428	NC 37079	Greene, NC	14.6
## 1429	NC 37081	Guilford, NC	17.9
## 1430	NC 37083	Halifax, NC	24.8
## 1431	NC 37085	Harnett, NC	15.8
## 1432	NC 37087	Haywood, NC	31.1
## 1433	NC 37089	Henderson, NC	26.8
## 1434	NC 37091	Hertford, NC	15.3
## 1435	NC 37093	Hoke, NC	15.0
## 1436	NC 37097	Iredell, NC	20.7
## 1437	NC 37099	Jackson, NC	29.2
## 1438	NC 37101	Johnston, NC	15.3
## 1439	NC 37103	Jones, NC	18.1
## 1440	NC 37105	Lee, NC	22.2
## 1441	NC 37107	Lenoir, NC	18.1
## 1442	NC 37109	Lincoln, NC	23.2
## 1443	NC 37111	McDowell, NC	23.7
## 1444	NC 37113	Macon, NC	34.1
## 1445	NC 37115	Madison, NC	18.0
## 1446	NC 37117	Martin, NC	25.9

## 1447	NC 37119	Mecklenburg, NC	14.2
## 1448	NC 37121	Mitchell, NC	34.9
## 1449	NC 37123	Montgomery, NC	17.1
## 1450	NC 37125	Moore, NC	18.5
## 1451	NC 37127	Nash, NC	19.5
## 1452	NC 37129	New Hanover, NC	26.7
## 1453	NC 37131	Northampton, NC	20.0
## 1454	NC 37133	Onslow, NC	16.6
## 1455	NC 37135	Orange, NC	14.3
## 1456	NC 37137	Pamlico, NC	21.0
## 1457	NC 37139	Pasquotank, NC	17.8
## 1458	NC 37141	Pender, NC	20.9
## 1459	NC 37143	Perquimans, NC	18.0
## 1460	NC 37145	Person, NC	22.1
## 1461	NC 37147	Pitt, NC	17.9
## 1462	NC 37149	Polk, NC	27.0
## 1463	NC 37151	Randolph, NC	21.4
## 1464	NC 37153	Richmond, NC	27.8
## 1465	NC 37155	Robeson, NC	18.8
## 1466	NC 37157	Rockingham, NC	24.1
## 1467	NC 37159	Rowan, NC	26.4
## 1468	NC 37161	Rutherford, NC	30.1
## 1469	NC 37163	Sampson, NC	24.0
## 1470	NC 37165	Scotland, NC	24.2
## 1471	NC 37167	Stanly, NC	23.7
## 1472	NC 37169	Stokes, NC	22.8
## 1473	NC 37171	Surry, NC	25.8
## 1474	NC 37173	Swain, NC	50.3
## 1475	NC 37175	Transylvania, NC	29.5
## 1476	NC 37179	Union, NC	12.5
## 1477	NC 37181	Vance, NC	23.9
## 1478	NC 37183	Wake, NC	12.1
## 1479	NC 37185	Warren, NC	14.4
## 1480	NC 37187	Washington, NC	14.4
## 1481	NC 37189	Watauga, NC	19.6
## 1482	NC 37191	Wayne, NC	18.5
## 1483	NC 37193	Wilkes, NC	39.7
## 1484	NC 37195	Wilson, NC	19.5
## 1485	NC 37197	Yadkin, NC	23.9
## 1486	NC 37199	Yancey, NC	30.7
## 1487	ND 38003	Barnes, ND	14.9
## 1488	ND 38005	Benson, ND	61.6
## 1489	ND 38009	Bottineau, ND	16.6
## 1490	ND 38015	Burleigh, ND	13.3
## 1491	ND 38017	Cass, ND	14.4
## 1492	ND 38035	Grand Forks, ND	14.4
## 1493	ND 38053	McKenzie, ND	26.0
## 1494	ND 38055	McLean, ND	18.2
## 1495	ND 38057	Mercer, ND	13.0
## 1496	ND 38059	Morton, ND	18.7
## 1497	ND 38061	Mountrail, ND	45.1
## 1498	ND 38071	Ramsey, ND	24.5
## 1499	ND 38073	Ransom, ND	22.6
## 1500	ND 38077	Richland, ND	12.5

## 1501	ND 38079	Rolette, ND	37.0
## 1502	ND 38089	Stark, ND	18.3
## 1503	ND 38093	Stutsman, ND	19.1
## 1504	ND 38099	Walsh, ND	15.0
## 1505	ND 38101	Ward, ND	11.7
## 1506	ND 38105	Williams, ND	15.9
## 1507	NE 31001	Adams, NE	10.2
## 1508	NE 31013	Box Butte, NE	20.2
## 1509	NE 31019	Buffalo, NE	9.8
## 1510	NE 31021	Burt, NE	16.5
## 1511	NE 31025	Cass, NE	12.2
## 1512	NE 31033	Cheyenne, NE	25.5
## 1513	NE 31043	Dakota, NE	14.3
## 1514	NE 31045	Dawes, NE	23.1
## 1515	NE 31047	Dawson, NE	12.6
## 1516	NE 31053	Dodge, NE	13.7
## 1517	NE 31055	Douglas, NE	15.5
## 1518	NE 31067	Gage, NE	15.8
## 1519	NE 31079	Hall, NE	11.6
## 1520	NE 31095	Jefferson, NE	15.7
## 1521	NE 31101	Keith, NE	17.2
## 1522	NE 31107	Knox, NE	15.7
## 1523	NE 31109	Lancaster, NE	13.7
## 1524	NE 31111	Lincoln, NE	16.2
## 1525	NE 31119	Madison, NE	10.7
## 1526	NE 31127	Nemaha, NE	19.9
## 1527	NE 31131	Otoe, NE	9.9
## 1528	NE 31137	Phelps, NE	13.6
## 1529	NE 31141	Platte, NE	7.7
## 1530	NE 31145	Red Willow, NE	18.5
## 1531	NE 31147	Richardson, NE	16.1
## 1532	NE 31151	Saline, NE	10.2
## 1533	NE 31153	Sarpy, NE	9.1
## 1534	NE 31155	Saunders, NE	8.1
## 1535	NE 31157	Scotts Bluff, NE	26.4
## 1536	NE 31159	Seward, NE	8.6
## 1537	NE 31161	Sheridan, NE	27.6
## 1538	NE 31173	Thurston, NE	48.5
## 1539	NE 31177	Washington, NE	9.5
## 1540	NE 31185	York, NE	10.3
## 1541	NH 33001	Belknap, NH	28.7
## 1542	NH 33003	Carroll, NH	28.2
## 1543	NH 33005	Cheshire, NH	23.8
## 1544	NH 33007	Coos, NH	31.4
## 1545	NH 33009	Grafton, NH	20.4
## 1546	NH 33011	Hillsborough, NH	26.3
## 1547	NH 33013	Merrimack, NH	22.9
## 1548	NH 33015	Rockingham, NH	21.6
## 1549	NH 33017	Strafford, NH	24.4
## 1550	NH 33019	Sullivan, NH	24.6
## 1551	NJ 34001	Atlantic, NJ	27.2
## 1552	NJ 34003	Bergen, NJ	12.1
## 1553	NJ 34005	Burlington, NJ	16.2
## 1554	NJ 34007	Camden, NJ	25.1

## 1555	NJ 34009	Cape May, NJ	28.2
## 1556	NJ 34011	Cumberland, NJ	20.8
## 1557	NJ 34013	Essex, NJ	20.8
## 1558	NJ 34015	Gloucester, NJ	22.5
## 1559	NJ 34017	Hudson, NJ	16.4
## 1560	NJ 34019	Hunterdon, NJ	12.7
## 1561	NJ 34021	Mercer, NJ	16.5
## 1562	NJ 34023	Middlesex, NJ	15.3
## 1563	NJ 34025	Monmouth, NJ	17.0
## 1564	NJ 34027	Morris, NJ	12.8
## 1565	NJ 34029	Ocean, NJ	19.8
## 1566	NJ 34031	Passaic, NJ	16.9
## 1567	NJ 34033	Salem, NJ	23.2
## 1568	NJ 34035	Somerset, NJ	12.5
## 1569	NJ 34037	Sussex, NJ	18.0
## 1570	NJ 34039	Union, NJ	13.7
## 1571	NJ 34041	Warren, NJ	17.9
## 1572	NM 35001	Bernalillo, NM	48.2
## 1573	NM 35005	Chaves, NM	37.3
## 1574	NM 35006	Cibola, NM	51.5
## 1575	NM 35007	Colfax, NM	40.4
## 1576	NM 35009	Curry, NM	22.1
## 1577	NM 35013	Dona Ana, NM	26.1
## 1578	NM 35015	Eddy, NM	35.1
## 1579	NM 35017	Grant, NM	41.2
## 1580	NM 35019	Guadalupe, NM	47.9
## 1581	NM 35025	Lea, NM	24.4
## 1582	NM 35027	Lincoln, NM	43.9
## 1583	NM 35028	Los Alamos, NM	22.7
## 1584	NM 35029	Luna, NM	27.0
## 1585	NM 35031	McKinley, NM	66.8
## 1586	NM 35035	Otero, NM	36.1
## 1587	NM 35037	Quay, NM	53.4
## 1588	NM 35039	Rio Arriba, NM	113.4
## 1589	NM 35041	Roosevelt, NM	16.5
## 1590	NM 35043	Sandoval, NM	33.4
## 1591	NM 35045	San Juan, NM	40.0
## 1592	NM 35047	San Miguel, NM	61.8
## 1593	NM 35049	Santa Fe, NM	45.8
## 1594	NM 35051	Sierra, NM	55.0
## 1595	NM 35053	Socorro, NM	50.0
## 1596	NM 35055	Taos, NM	54.5
## 1597	NM 35057	Torrance, NM	46.2
## 1598	NM 35059	Union, NM	32.5
## 1599	NM 35061	Valencia, NM	43.6
## 1600	NV 32001	Churchill, NV	35.3
## 1601	NV 32003	Clark, NV	28.9
## 1602	NV 32005	Douglas, NV	31.8
## 1603	NV 32007	Elko, NV	20.0
## 1604	NV 32013	Humboldt, NV	25.6
## 1605	NV 32015	Lander, NV	38.7
## 1606	NV 32017	Lincoln, NV	28.8
## 1607	NV 32019	Lyon, NV	34.2
## 1608	NV 32021	Mineral, NV	49.0

## 1609	NV 32023	Nye, NV	49.1
## 1610	NV 32027	Pershing, NV	24.2
## 1611	NV 32031	Washoe, NV	38.3
## 1612	NV 32033	White Pine, NV	44.9
## 1613	NV 32510	Carson City, NV	43.5
## 1614	NY 36001	Albany, NY	12.7
## 1615	NY 36003	Allegany, NY	10.4
## 1616	NY 36005	Bronx, NY	25.6
## 1617	NY 36007	Broome, NY	19.0
## 1618	NY 36009	Cattaraugus, NY	13.6
## 1619	NY 36011	Cayuga, NY	15.1
## 1620	NY 36013	Chautauqua, NY	16.6
## 1621	NY 36015	Chemung, NY	17.6
## 1622	NY 36017	Chenango, NY	12.0
## 1623	NY 36019	Clinton, NY	14.0
## 1624	NY 36021	Columbia, NY	15.0
## 1625	NY 36023	Cortland, NY	12.4
## 1626	NY 36025	Delaware, NY	17.2
## 1627	NY 36027	Dutchess, NY	15.9
## 1628	NY 36029	Erie, NY	16.8
## 1629	NY 36031	Essex, NY	17.8
## 1630	NY 36033	Franklin, NY	14.7
## 1631	NY 36035	Fulton, NY	12.6
## 1632	NY 36037	Genesee, NY	11.3
## 1633	NY 36039	Greene, NY	18.2
## 1634	NY 36043	Herkimer, NY	12.8
## 1635	NY 36045	Jefferson, NY	13.5
## 1636	NY 36047	Kings, NY	17.6
## 1637	NY 36049	Lewis, NY	12.0
## 1638	NY 36051	Livingston, NY	9.8
## 1639	NY 36053	Madison, NY	12.9
## 1640	NY 36055	Monroe, NY	12.7
## 1641	NY 36057	Montgomery, NY	11.7
## 1642	NY 36059	Nassau, NY	11.9
## 1643	NY 36061	New York, NY	21.1
## 1644	NY 36063	Niagara, NY	16.9
## 1645	NY 36065	Oneida, NY	14.5
## 1646	NY 36067	Onondaga, NY	17.3
## 1647	NY 36069	Ontario, NY	12.8
## 1648	NY 36071	Orange, NY	14.9
## 1649	NY 36073	Orleans, NY	8.0
## 1650	NY 36075	Oswego, NY	15.1
## 1651	NY 36077	Otsego, NY	13.5
## 1652	NY 36079	Putnam, NY	12.8
## 1653	NY 36081	Queens, NY	14.3
## 1654	NY 36083	Rensselaer, NY	11.6
## 1655	NY 36085	Richmond, NY	20.7
## 1656	NY 36087	Rockland, NY	8.8
## 1657	NY 36089	St. Lawrence, NY	13.1
## 1658	NY 36091	Saratoga, NY	10.3
## 1659	NY 36093	Schenectady, NY	12.7
## 1660	NY 36095	Schoharie, NY	10.0
## 1661	NY 36097	Schuyler, NY	12.2
## 1662	NY 36099	Seneca, NY	12.9



## 1663	NY 36101	Steuben, NY	13.7
## 1664	NY 36103	Suffolk, NY	17.1
## 1665	NY 36105	Sullivan, NY	23.7
## 1666	NY 36107	Tioga, NY	14.7
## 1667	NY 36109	Tompkins, NY	11.9
## 1668	NY 36111	Ulster, NY	15.2
## 1669	NY 36113	Warren, NY	13.9
## 1670	NY 36115	Washington, NY	9.8
## 1671	NY 36117	Wayne, NY	12.2
## 1672	NY 36119	Westchester, NY	10.6
## 1673	NY 36121	Wyoming, NY	7.9
## 1674	NY 36123	Yates, NY	11.1
## 1675	OH 39001	Adams, OH	29.0
## 1676	OH 39003	Allen, OH	15.8
## 1677	OH 39005	Ashland, OH	13.2
## 1678	OH 39007	Ashtabula, OH	20.8
## 1679	OH 39009	Athens, OH	18.0
## 1680	OH 39011	Auglaize, OH	10.7
## 1681	OH 39013	Belmont, OH	17.4
## 1682	OH 39015	Brown, OH	33.3
## 1683	OH 39017	Butler, OH	32.7
## 1684	OH 39019	Carroll, OH	13.9
## 1685	OH 39021	Champaign, OH	21.5
## 1686	OH 39023	Clark, OH	28.9
## 1687	OH 39025	Clermont, OH	27.8
## 1688	OH 39027	Clinton, OH	25.2
## 1689	OH 39029	Columbiana, OH	19.8
## 1690	OH 39031	Coshocton, OH	11.0
## 1691	OH 39033	Crawford, OH	21.5
## 1692	OH 39035	Cuyahoga, OH	23.6
## 1693	OH 39037	Darke, OH	18.6
## 1694	OH 39039	Defiance, OH	14.5
## 1695	OH 39041	Delaware, OH	10.0
## 1696	OH 39043	Erie, OH	22.8
## 1697	OH 39045	Fairfield, OH	16.0
## 1698	OH 39047	Fayette, OH	22.7
## 1699	OH 39049	Franklin, OH	22.4
## 1700	OH 39051	Fulton, OH	13.3
## 1701	OH 39053	Gallia, OH	22.7
## 1702	OH 39055	Geauga, OH	14.1
## 1703	OH 39057	Greene, OH	23.0
## 1704	OH 39059	Guernsey, OH	24.1
## 1705	OH 39061	Hamilton, OH	26.3
## 1706	OH 39063	Hancock, OH	13.0
## 1707	OH 39065	Hardin, OH	17.8
## 1708	OH 39067	Harrison, OH	13.0
## 1709	OH 39069	Henry, OH	12.4
## 1710	OH 39071	Highland, OH	23.9
## 1711	OH 39073	Hocking, OH	22.7
## 1712	OH 39075	Holmes, OH	4.6
## 1713	OH 39077	Huron, OH	19.4
## 1714	OH 39079	Jackson, OH	26.5
## 1715	OH 39081	Jefferson, OH	27.2
## 1716	OH 39083	Knox, OH	15.8

## 1717	OH 39085	Lake, OH	22.5
## 1718	OH 39087	Lawrence, OH	23.1
## 1719	OH 39089	Licking, OH	18.3
## 1720	OH 39091	Logan, OH	18.5
## 1721	OH 39093	Lorain, OH	19.7
## 1722	OH 39095	Lucas, OH	27.1
## 1723	OH 39097	Madison, OH	18.6
## 1724	OH 39099	Mahoning, OH	23.0
## 1725	OH 39101	Marion, OH	22.8
## 1726	OH 39103	Medina, OH	12.9
## 1727	OH 39105	Meigs, OH	22.3
## 1728	OH 39107	Mercer, OH	9.2
## 1729	OH 39109	Miami, OH	19.6
## 1730	OH 39111	Monroe, OH	15.4
## 1731	OH 39113	Montgomery, OH	38.4
## 1732	OH 39115	Morgan, OH	16.7
## 1733	OH 39117	Morrow, OH	17.1
## 1734	OH 39119	Muskingum, OH	15.1
## 1735	OH 39121	Noble, OH	13.9
## 1736	OH 39123	Ottawa, OH	19.4
## 1737	OH 39125	Paulding, OH	9.9
## 1738	OH 39127	Perry, OH	13.3
## 1739	OH 39129	Pickaway, OH	16.5
## 1740	OH 39131	Pike, OH	26.9
## 1741	OH 39133	Portage, OH	17.8
## 1742	OH 39135	Preble, OH	24.1
## 1743	OH 39137	Putnam, OH	8.7
## 1744	OH 39139	Richland, OH	21.8
## 1745	OH 39141	Ross, OH	29.7
## 1746	OH 39143	Sandusky, OH	18.8
## 1747	OH 39145	Scioto, OH	33.3
## 1748	OH 39147	Seneca, OH	13.3
## 1749	OH 39149	Shelby, OH	16.0
## 1750	OH 39151	Stark, OH	17.9
## 1751	OH 39153	Summit, OH	24.8
## 1752	OH 39155	Trumbull, OH	27.2
## 1753	OH 39157	Tuscarawas, OH	11.5
## 1754	OH 39159	Union, OH	13.4
## 1755	OH 39161	Van Wert, OH	13.2
## 1756	OH 39163	Vinton, OH	28.1
## 1757	OH 39165	Warren, OH	17.6
## 1758	OH 39167	Washington, OH	17.8
## 1759	OH 39169	Wayne, OH	13.5
## 1760	OH 39171	Williams, OH	10.5
## 1761	OH 39173	Wood, OH	11.8
## 1762	OH 39175	Wyandot, OH	9.8
## 1763	OK 40001	Adair, OK	23.8
## 1764	OK 40003	Alfalfa, OK	19.2
## 1765	OK 40005	Atoka, OK	26.6
## 1766	OK 40009	Beckham, OK	28.0
## 1767	OK 40011	Blaine, OK	20.8
## 1768	OK 40013	Bryan, OK	28.2
## 1769	OK 40015	Caddo, OK	39.5
## 1770	OK 40017	Canadian, OK	18.0

## 1771	OK 40019	Carter, OK	36.9
## 1772	OK 40021	Cherokee, OK	31.3
## 1773	OK 40023	Choctaw, OK	26.3
## 1774	OK 40027	Cleveland, OK	20.4
## 1775	OK 40029	Coal, OK	36.0
## 1776	OK 40031	Comanche, OK	19.6
## 1777	OK 40033	Cotton, OK	21.3
## 1778	OK 40035	Craig, OK	26.2
## 1779	OK 40037	Creek, OK	30.2
## 1780	OK 40039	Custer, OK	22.9
## 1781	OK 40041	Delaware, OK	28.1
## 1782	OK 40047	Garfield, OK	21.8
## 1783	OK 40049	Garvin, OK	28.9
## 1784	OK 40051	Grady, OK	23.1
## 1785	OK 40055	Greer, OK	24.6
## 1786	OK 40061	Haskell, OK	20.1
## 1787	OK 40063	Hughes, OK	20.6
## 1788	OK 40065	Jackson, OK	18.7
## 1789	OK 40067	Jefferson, OK	35.1
## 1790	OK 40069	Johnston, OK	38.2
## 1791	OK 40071	Kay, OK	26.6
## 1792	OK 40073	Kingfisher, OK	15.1
## 1793	OK 40075	Kiowa, OK	31.1
## 1794	OK 40077	Latimer, OK	25.7
## 1795	OK 40079	Le Flore, OK	28.8
## 1796	OK 40081	Lincoln, OK	24.2
## 1797	OK 40083	Logan, OK	18.1
## 1798	OK 40085	Love, OK	25.1
## 1799	OK 40087	McClain, OK	22.3
## 1800	OK 40089	McCurtain, OK	31.0
## 1801	OK 40091	McIntosh, OK	34.4
## 1802	OK 40095	Marshall, OK	25.2
## 1803	OK 40097	Mayes, OK	29.9
## 1804	OK 40099	Murray, OK	37.9
## 1805	OK 40101	Muskogee, OK	29.7
## 1806	OK 40103	Noble, OK	24.2
## 1807	OK 40105	Nowata, OK	21.5
## 1808	OK 40107	Okfuskee, OK	29.1
## 1809	OK 40109	Oklahoma, OK	28.5
## 1810	OK 40111	Oklmulgee, OK	27.7
## 1811	OK 40113	Osage, OK	21.1
## 1812	OK 40115	Ottawa, OK	25.9
## 1813	OK 40117	Pawnee, OK	41.2
## 1814	OK 40119	Payne, OK	17.1
## 1815	OK 40121	Pittsburg, OK	31.6
## 1816	OK 40123	Pontotoc, OK	34.9
## 1817	OK 40125	Pottawatomie, OK	29.0
## 1818	OK 40127	Pushmataha, OK	33.6
## 1819	OK 40131	Rogers, OK	18.3
## 1820	OK 40133	Seminole, OK	34.1
## 1821	OK 40135	Sequoyah, OK	30.2
## 1822	OK 40137	Stephens, OK	30.3
## 1823	OK 40139	Texas, OK	17.2
## 1824	OK 40141	Tillman, OK	26.7

## 1825	OK 40143	Tulsa, OK	29.2
## 1826	OK 40145	Wagoner, OK	25.2
## 1827	OK 40147	Washington, OK	25.0
## 1828	OK 40149	Washita, OK	24.7
## 1829	OK 40151	Woods, OK	20.7
## 1830	OK 40153	Woodward, OK	19.1
## 1831	OR 41001	Baker, OR	38.7
## 1832	OR 41003	Benton, OR	16.7
## 1833	OR 41005	Clackamas, OR	23.4
## 1834	OR 41007	Clatsop, OR	43.2
## 1835	OR 41009	Columbia, OR	27.9
## 1836	OR 41011	Coos, OR	45.1
## 1837	OR 41013	Crook, OR	33.7
## 1838	OR 41015	Curry, OR	40.4
## 1839	OR 41017	Deschutes, OR	26.0
## 1840	OR 41019	Douglas, OR	33.8
## 1841	OR 41023	Grant, OR	38.2
## 1842	OR 41025	Harney, OR	32.5
## 1843	OR 41027	Hood River, OR	13.3
## 1844	OR 41029	Jackson, OR	33.1
## 1845	OR 41031	Jefferson, OR	43.5
## 1846	OR 41033	Josephine, OR	39.5
## 1847	OR 41035	Klamath, OR	42.9
## 1848	OR 41037	Lake, OR	47.5
## 1849	OR 41039	Lane, OR	32.6
## 1850	OR 41041	Lincoln, OR	48.5
## 1851	OR 41043	Linn, OR	31.4
## 1852	OR 41045	Malheur, OR	21.4
## 1853	OR 41047	Marion, OR	24.4
## 1854	OR 41049	Morrow, OR	19.9
## 1855	OR 41051	Multnomah, OR	37.0
## 1856	OR 41053	Polk, OR	19.7
## 1857	OR 41057	Tillamook, OR	40.8
## 1858	OR 41059	Umatilla, OR	22.1
## 1859	OR 41061	Union, OR	25.4
## 1860	OR 41063	Wallowa, OR	22.4
## 1861	OR 41065	Wasco, OR	30.0
## 1862	OR 41067	Washington, OR	16.7
## 1863	OR 41071	Yamhill, OR	20.7
## 1864	PA 42001	Adams, PA	12.9
## 1865	PA 42003	Allegheny, PA	25.4
## 1866	PA 42005	Armstrong, PA	23.6
## 1867	PA 42007	Beaver, PA	22.2
## 1868	PA 42009	Bedford, PA	16.1
## 1869	PA 42011	Berks, PA	16.5
## 1870	PA 42013	Blair, PA	24.2
## 1871	PA 42015	Bradford, PA	14.5
## 1872	PA 42017	Bucks, PA	22.6
## 1873	PA 42019	Butler, PA	18.7
## 1874	PA 42021	Cambria, PA	28.8
## 1875	PA 42025	Carbon, PA	25.3
## 1876	PA 42027	Centre, PA	8.5
## 1877	PA 42029	Chester, PA	13.9
## 1878	PA 42031	Clarion, PA	12.8

## 1879	PA 42033	Clearfield, PA	17.0
## 1880	PA 42035	Clinton, PA	15.2
## 1881	PA 42037	Columbia, PA	12.4
## 1882	PA 42039	Crawford, PA	20.1
## 1883	PA 42041	Cumberland, PA	13.2
## 1884	PA 42043	Dauphin, PA	16.1
## 1885	PA 42045	Delaware, PA	26.8
## 1886	PA 42047	Elk, PA	18.1
## 1887	PA 42049	Erie, PA	19.9
## 1888	PA 42051	Fayette, PA	24.9
## 1889	PA 42053	Forest, PA	20.3
## 1890	PA 42055	Franklin, PA	13.3
## 1891	PA 42057	Fulton, PA	19.4
## 1892	PA 42059	Greene, PA	24.5
## 1893	PA 42061	Huntingdon, PA	12.5
## 1894	PA 42063	Indiana, PA	18.9
## 1895	PA 42065	Jefferson, PA	16.1
## 1896	PA 42067	Juniata, PA	11.1
## 1897	PA 42069	Lackawanna, PA	23.8
## 1898	PA 42071	Lancaster, PA	13.7
## 1899	PA 42073	Lawrence, PA	22.7
## 1900	PA 42075	Lebanon, PA	10.6
## 1901	PA 42077	Lehigh, PA	20.2
## 1902	PA 42079	Luzerne, PA	26.1
## 1903	PA 42081	Lycoming, PA	16.6
## 1904	PA 42083	Mc Kean, PA	17.2
## 1905	PA 42085	Mercer, PA	21.4
## 1906	PA 42087	Mifflin, PA	17.2
## 1907	PA 42089	Monroe, PA	21.7
## 1908	PA 42091	Montgomery, PA	18.6
## 1909	PA 42093	Montour, PA	17.9
## 1910	PA 42095	Northampton, PA	17.5
## 1911	PA 42097	Northumberland, PA	15.4
## 1912	PA 42099	Perry, PA	13.3
## 1913	PA 42101	Philadelphia, PA	33.1
## 1914	PA 42103	Pike, PA	25.4
## 1915	PA 42105	Potter, PA	14.5
## 1916	PA 42107	Schuylkill, PA	24.3
## 1917	PA 42109	Snyder, PA	8.1
## 1918	PA 42111	Somerset, PA	15.8
## 1919	PA 42113	Sullivan, PA	19.8
## 1920	PA 42115	Susquehanna, PA	20.3
## 1921	PA 42117	Tioga, PA	8.6
## 1922	PA 42119	Union, PA	7.7
## 1923	PA 42121	Venango, PA	20.3
## 1924	PA 42123	Warren, PA	14.4
## 1925	PA 42125	Washington, PA	21.9
## 1926	PA 42127	Wayne, PA	22.5
## 1927	PA 42129	Westmoreland, PA	23.9
## 1928	PA 42131	Wyoming, PA	21.5
## 1929	PA 42133	York, PA	17.1
## 1930	RI 44001	Bristol, RI	19.6
## 1931	RI 44003	Kent, RI	28.5
## 1932	RI 44005	Newport, RI	21.7

## 1933	RI 44007	Providence, RI	27.3
## 1934	RI 44009	Washington, RI	22.3
## 1935	SC 45001	Abbeville, SC	15.4
## 1936	SC 45003	Aiken, SC	23.1
## 1937	SC 45007	Anderson, SC	28.3
## 1938	SC 45009	Bamberg, SC	21.5
## 1939	SC 45011	Barnwell, SC	17.9
## 1940	SC 45013	Beaufort, SC	15.4
## 1941	SC 45015	Berkeley, SC	15.8
## 1942	SC 45017	Calhoun, SC	12.9
## 1943	SC 45019	Charleston, SC	22.8
## 1944	SC 45021	Cherokee, SC	22.8
## 1945	SC 45023	Chester, SC	19.7
## 1946	SC 45025	Chesterfield, SC	17.6
## 1947	SC 45027	Clarendon, SC	14.9
## 1948	SC 45029	Colleton, SC	23.6
## 1949	SC 45031	Darlington, SC	18.1
## 1950	SC 45033	Dillon, SC	15.8
## 1951	SC 45035	Dorchester, SC	15.2
## 1952	SC 45037	Edgefield, SC	13.2
## 1953	SC 45039	Fairfield, SC	18.1
## 1954	SC 45041	Florence, SC	15.6
## 1955	SC 45043	Georgetown, SC	21.7
## 1956	SC 45045	Greenville, SC	25.0
## 1957	SC 45047	Greenwood, SC	18.5
## 1958	SC 45049	Hampton, SC	20.7
## 1959	SC 45051	Horry, SC	28.6
## 1960	SC 45053	Jasper, SC	16.9
## 1961	SC 45055	Kershaw, SC	21.5
## 1962	SC 45057	Lancaster, SC	17.1
## 1963	SC 45059	Laurens, SC	27.5
## 1964	SC 45061	Lee, SC	12.1
## 1965	SC 45063	Lexington, SC	19.6
## 1966	SC 45065	McCormick, SC	15.5
## 1967	SC 45067	Marion, SC	17.7
## 1968	SC 45069	Marlboro, SC	15.4
## 1969	SC 45071	Newberry, SC	19.2
## 1970	SC 45073	Oconee, SC	31.5
## 1971	SC 45075	Orangeburg, SC	17.0
## 1972	SC 45077	Pickens, SC	27.6
## 1973	SC 45079	Richland, SC	16.9
## 1974	SC 45081	Saluda, SC	16.5
## 1975	SC 45083	Spartanburg, SC	25.9
## 1976	SC 45085	Sumter, SC	12.4
## 1977	SC 45087	Union, SC	21.9
## 1978	SC 45089	Williamsburg, SC	15.0
## 1979	SC 45091	York, SC	20.2
## 1980	SD 46005	Beadle, SD	13.6
## 1981	SD 46007	Bennett, SD	40.0
## 1982	SD 46011	Brookings, SD	8.4
## 1983	SD 46013	Brown, SD	16.0
## 1984	SD 46019	Butte, SD	12.0
## 1985	SD 46023	Charles Mix, SD	28.4
## 1986	SD 46027	Clay, SD	8.5

## 1987	SD 46029	Codington, SD	9.5
## 1988	SD 46033	Custer, SD	25.1
## 1989	SD 46035	Davison, SD	10.9
## 1990	SD 46041	Dewey, SD	70.1
## 1991	SD 46047	Fall River, SD	46.2
## 1992	SD 46053	Gregory, SD	25.4
## 1993	SD 46065	Hughes, SD	14.8
## 1994	SD 46079	Lake, SD	9.8
## 1995	SD 46081	Lawrence, SD	15.4
## 1996	SD 46083	Lincoln, SD	6.5
## 1997	SD 46093	Meade, SD	16.8
## 1998	SD 46095	Mellette, SD	83.7
## 1999	SD 46099	Minnehaha, SD	18.0
## 2000	SD 46103	Pennington, SD	18.9
## 2001	SD 46109	Roberts, SD	28.1
## 2002	SD 46115	Spink, SD	19.7
## 2003	SD 46127	Union, SD	12.9
## 2004	SD 46129	Walworth, SD	24.9
## 2005	SD 46135	Yankton, SD	11.8
## 2006	TN 47001	Anderson, TN	34.4
## 2007	TN 47003	Bedford, TN	24.2
## 2008	TN 47005	Benton, TN	40.6
## 2009	TN 47007	Bledsoe, TN	22.3
## 2010	TN 47009	Blount, TN	26.3
## 2011	TN 47011	Bradley, TN	23.3
## 2012	TN 47013	Campbell, TN	40.5
## 2013	TN 47015	Cannon, TN	29.8
## 2014	TN 47017	Carroll, TN	25.3
## 2015	TN 47019	Carter, TN	26.9
## 2016	TN 47021	Cheatham, TN	30.8
## 2017	TN 47023	Chester, TN	16.7
## 2018	TN 47025	Claiborne, TN	33.3
## 2019	TN 47027	Clay, TN	45.9
## 2020	TN 47029	Cocke, TN	29.0
## 2021	TN 47031	Coffee, TN	27.2
## 2022	TN 47033	Crockett, TN	18.0
## 2023	TN 47035	Cumberland, TN	23.8
## 2024	TN 47037	Davidson, TN	26.9
## 2025	TN 47039	Decatur, TN	32.3
## 2026	TN 47041	DeKalb, TN	36.8
## 2027	TN 47043	Dickson, TN	28.5
## 2028	TN 47045	Dyer, TN	15.4
## 2029	TN 47047	Fayette, TN	13.0
## 2030	TN 47049	Fentress, TN	33.7
## 2031	TN 47051	Franklin, TN	26.8
## 2032	TN 47053	Gibson, TN	20.2
## 2033	TN 47055	Giles, TN	24.8
## 2034	TN 47057	Grainger, TN	32.3
## 2035	TN 47059	Greene, TN	27.0
## 2036	TN 47061	Grundy, TN	39.6
## 2037	TN 47063	Hamblen, TN	32.5
## 2038	TN 47065	Hamilton, TN	23.0
## 2039	TN 47067	Hancock, TN	40.4
## 2040	TN 47069	Hardeman, TN	12.6

## 2041	TN 47071	Hardin, TN	36.2
## 2042	TN 47073	Hawkins, TN	30.1
## 2043	TN 47075	Haywood, TN	14.6
## 2044	TN 47077	Henderson, TN	28.8
## 2045	TN 47079	Henry, TN	30.1
## 2046	TN 47081	Hickman, TN	27.0
## 2047	TN 47083	Houston, TN	26.4
## 2048	TN 47085	Humphreys, TN	23.2
## 2049	TN 47087	Jackson, TN	50.3
## 2050	TN 47089	Jefferson, TN	24.5
## 2051	TN 47091	Johnson, TN	21.7
## 2052	TN 47093	Knox, TN	32.9
## 2053	TN 47095	Lake, TN	14.2
## 2054	TN 47097	Lauderdale, TN	16.6
## 2055	TN 47099	Lawrence, TN	24.2
## 2056	TN 47101	Lewis, TN	23.1
## 2057	TN 47103	Lincoln, TN	19.4
## 2058	TN 47105	Loudon, TN	29.6
## 2059	TN 47107	McMinn, TN	31.3
## 2060	TN 47109	McNairy, TN	23.1
## 2061	TN 47111	Macon, TN	24.0
## 2062	TN 47113	Madison, TN	15.7
## 2063	TN 47115	Marion, TN	22.8
## 2064	TN 47117	Marshall, TN	26.9
## 2065	TN 47119	Maury, TN	22.5
## 2066	TN 47121	Meigs, TN	38.8
## 2067	TN 47123	Monroe, TN	25.0
## 2068	TN 47125	Montgomery, TN	18.7
## 2069	TN 47129	Morgan, TN	31.2
## 2070	TN 47131	Obion, TN	18.5
## 2071	TN 47133	Overton, TN	37.5
## 2072	TN 47135	Perry, TN	31.6
## 2073	TN 47139	Polk, TN	27.9
## 2074	TN 47141	Putnam, TN	23.5
## 2075	TN 47143	Rhea, TN	25.7
## 2076	TN 47145	Roane, TN	42.2
## 2077	TN 47147	Robertson, TN	18.8
## 2078	TN 47149	Rutherford, TN	17.2
## 2079	TN 47151	Scott, TN	27.0
## 2080	TN 47153	Sequatchie, TN	23.3
## 2081	TN 47155	Sevier, TN	28.2
## 2082	TN 47157	Shelby, TN	19.4
## 2083	TN 47159	Smith, TN	31.5
## 2084	TN 47161	Stewart, TN	29.6
## 2085	TN 47163	Sullivan, TN	28.3
## 2086	TN 47165	Sumner, TN	17.2
## 2087	TN 47167	Tipton, TN	17.5
## 2088	TN 47169	Trousdale, TN	21.8
## 2089	TN 47171	Unicoi, TN	34.6
## 2090	TN 47173	Union, TN	33.7
## 2091	TN 47175	Van Buren, TN	21.1
## 2092	TN 47177	Warren, TN	19.2
## 2093	TN 47179	Washington, TN	27.5
## 2094	TN 47181	Wayne, TN	18.0



## 2095	TN 47183	Weakley, TN	17.4
## 2096	TN 47185	White, TN	26.6
## 2097	TN 47187	Williamson, TN	10.9
## 2098	TN 47189	Wilson, TN	21.2
## 2099	TX 48001	Anderson, TX	22.1
## 2100	TX 48003	Andrews, TX	11.0
## 2101	TX 48005	Angelina, TX	12.6
## 2102	TX 48007	Aransas, TX	36.2
## 2103	TX 48013	Atascosa, TX	14.0
## 2104	TX 48015	Austin, TX	12.3
## 2105	TX 48019	Bandera, TX	23.0
## 2106	TX 48021	Bastrop, TX	18.2
## 2107	TX 48023	Baylor, TX	33.5
## 2108	TX 48025	Bee, TX	11.7
## 2109	TX 48027	Bell, TX	11.1
## 2110	TX 48029	Bexar, TX	19.2
## 2111	TX 48031	Blanco, TX	21.9
## 2112	TX 48035	Bosque, TX	18.1
## 2113	TX 48037	Bowie, TX	12.6
## 2114	TX 48039	Brazoria, TX	14.5
## 2115	TX 48041	Brazos, TX	9.9
## 2116	TX 48043	Brewster, TX	27.1
## 2117	TX 48047	Brooks, TX	20.9
## 2118	TX 48049	Brown, TX	23.0
## 2119	TX 48051	Burleson, TX	14.0
## 2120	TX 48053	Burnet, TX	18.9
## 2121	TX 48055	Caldwell, TX	14.1
## 2122	TX 48057	Calhoun, TX	26.0
## 2123	TX 48059	Callahan, TX	18.4
## 2124	TX 48061	Cameron, TX	8.8
## 2125	TX 48063	Camp, TX	18.8
## 2126	TX 48065	Carson, TX	18.6
## 2127	TX 48067	Cass, TX	15.1
## 2128	TX 48071	Chambers, TX	16.6
## 2129	TX 48073	Cherokee, TX	18.1
## 2130	TX 48075	Childress, TX	16.9
## 2131	TX 48083	Coleman, TX	18.3
## 2132	TX 48085	Collin, TX	10.4
## 2133	TX 48089	Colorado, TX	11.3
## 2134	TX 48091	Comal, TX	18.4
## 2135	TX 48093	Comanche, TX	10.9
## 2136	TX 48097	Cooke, TX	19.3
## 2137	TX 48099	Coryell, TX	9.0
## 2138	TX 48111	Dallam, TX	19.5
## 2139	TX 48113	Dallas, TX	15.8
## 2140	TX 48115	Dawson, TX	18.2
## 2141	TX 48117	Deaf Smith, TX	16.8
## 2142	TX 48121	Denton, TX	10.8
## 2143	TX 48123	DeWitt, TX	14.3
## 2144	TX 48127	Dimmit, TX	13.6
## 2145	TX 48131	Duval, TX	15.5
## 2146	TX 48133	Eastland, TX	10.9
## 2147	TX 48135	Ector, TX	22.8
## 2148	TX 48139	Ellis, TX	10.1

## 2149	TX 48141	El Paso, TX	16.4
## 2150	TX 48143	Erath, TX	10.7
## 2151	TX 48145	Falls, TX	12.8
## 2152	TX 48147	Fannin, TX	14.1
## 2153	TX 48149	Fayette, TX	11.2
## 2154	TX 48157	Fort Bend, TX	7.2
## 2155	TX 48159	Franklin, TX	11.3
## 2156	TX 48161	Freestone, TX	8.4
## 2157	TX 48163	Frio, TX	10.3
## 2158	TX 48165	Gaines, TX	11.6
## 2159	TX 48167	Galveston, TX	22.6
## 2160	TX 48171	Gillespie, TX	14.8
## 2161	TX 48177	Gonzales, TX	19.5
## 2162	TX 48179	Gray, TX	21.2
## 2163	TX 48181	Grayson, TX	20.5
## 2164	TX 48183	Gregg, TX	15.3
## 2165	TX 48185	Grimes, TX	18.9
## 2166	TX 48187	Guadalupe, TX	13.3
## 2167	TX 48189	Hale, TX	12.9
## 2168	TX 48193	Hamilton, TX	15.4
## 2169	TX 48199	Hardin, TX	20.2
## 2170	TX 48201	Harris, TX	15.7
## 2171	TX 48203	Harrison, TX	15.7
## 2172	TX 48209	Hays, TX	14.1
## 2173	TX 48213	Henderson, TX	21.7
## 2174	TX 48215	Hidalgo, TX	6.8
## 2175	TX 48217	Hill, TX	17.7
## 2176	TX 48219	Hockley, TX	17.4
## 2177	TX 48221	Hood, TX	20.6
## 2178	TX 48223	Hopkins, TX	13.5
## 2179	TX 48225	Houston, TX	14.6
## 2180	TX 48227	Howard, TX	21.8
## 2181	TX 48231	Hunt, TX	18.0
## 2182	TX 48233	Hutchinson, TX	26.8
## 2183	TX 48237	Jack, TX	14.3
## 2184	TX 48239	Jackson, TX	11.7
## 2185	TX 48241	Jasper, TX	15.8
## 2186	TX 48245	Jefferson, TX	17.5
## 2187	TX 48249	Jim Wells, TX	17.2
## 2188	TX 48251	Johnson, TX	13.7
## 2189	TX 48253	Jones, TX	13.5
## 2190	TX 48255	Karnes, TX	11.8
## 2191	TX 48257	Kaufman, TX	15.2
## 2192	TX 48259	Kendall, TX	11.2
## 2193	TX 48265	Kerr, TX	24.5
## 2194	TX 48273	Kleberg, TX	12.3
## 2195	TX 48277	Lamar, TX	14.0
## 2196	TX 48279	Lamb, TX	17.6
## 2197	TX 48281	Lampasas, TX	14.1
## 2198	TX 48283	La Salle, TX	17.4
## 2199	TX 48285	Lavaca, TX	11.8
## 2200	TX 48287	Lee, TX	12.9
## 2201	TX 48289	Leon, TX	19.0
## 2202	TX 48291	Liberty, TX	21.3

## 2203	TX 48293	Limestone, TX	14.3
## 2204	TX 48297	Live Oak, TX	12.7
## 2205	TX 48299	Llano, TX	31.8
## 2206	TX 48303	Lubbock, TX	16.2
## 2207	TX 48309	McLennan, TX	15.8
## 2208	TX 48313	Madison, TX	13.2
## 2209	TX 48315	Marion, TX	23.9
## 2210	TX 48321	Matagorda, TX	14.5
## 2211	TX 48323	Maverick, TX	8.0
## 2212	TX 48325	Medina, TX	8.9
## 2213	TX 48329	Midland, TX	18.8
## 2214	TX 48331	Milam, TX	17.8
## 2215	TX 48335	Mitchell, TX	21.4
## 2216	TX 48337	Montague, TX	23.9
## 2217	TX 48339	Montgomery, TX	17.4
## 2218	TX 48341	Moore, TX	13.7
## 2219	TX 48343	Morris, TX	18.0
## 2220	TX 48347	Nacogdoches, TX	15.3
## 2221	TX 48349	Navarro, TX	16.1
## 2222	TX 48351	Newton, TX	25.3
## 2223	TX 48353	Nolan, TX	26.4
## 2224	TX 48355	Nueces, TX	26.1
## 2225	TX 48361	Orange, TX	29.5
## 2226	TX 48363	Palo Pinto, TX	21.1
## 2227	TX 48365	Panola, TX	14.2
## 2228	TX 48367	Parker, TX	16.5
## 2229	TX 48371	Pecos, TX	15.1
## 2230	TX 48373	Polk, TX	23.1
## 2231	TX 48375	Potter, TX	26.9
## 2232	TX 48379	Rains, TX	19.4
## 2233	TX 48381	Randall, TX	15.1
## 2234	TX 48387	Red River, TX	17.3
## 2235	TX 48389	Reeves, TX	25.1
## 2236	TX 48391	Refugio, TX	20.8
## 2237	TX 48395	Robertson, TX	18.3
## 2238	TX 48397	Rockwall, TX	11.1
## 2239	TX 48399	Runnels, TX	12.5
## 2240	TX 48401	Rusk, TX	13.1
## 2241	TX 48403	Sabine, TX	18.0
## 2242	TX 48405	San Augustine, TX	18.2
## 2243	TX 48407	San Jacinto, TX	20.4
## 2244	TX 48409	San Patricio, TX	22.0
## 2245	TX 48415	Scurry, TX	19.4
## 2246	TX 48419	Shelby, TX	17.9
## 2247	TX 48423	Smith, TX	13.9
## 2248	TX 48425	Somervell, TX	14.0
## 2249	TX 48427	Starr, TX	4.2
## 2250	TX 48429	Stephens, TX	16.9
## 2251	TX 48437	Swisher, TX	14.8
## 2252	TX 48439	Tarrant, TX	14.1
## 2253	TX 48441	Taylor, TX	19.0
## 2254	TX 48445	Terry, TX	8.8
## 2255	TX 48449	Titus, TX	8.2
## 2256	TX 48451	Tom Green, TX	18.6

## 2257	TX 48453	Travis, TX	18.4
## 2258	TX 48455	Trinity, TX	26.9
## 2259	TX 48457	Tyler, TX	19.1
## 2260	TX 48459	Upshur, TX	18.7
## 2261	TX 48463	Uvalde, TX	12.2
## 2262	TX 48465	Val Verde, TX	11.1
## 2263	TX 48467	Van Zandt, TX	18.3
## 2264	TX 48469	Victoria, TX	16.1
## 2265	TX 48471	Walker, TX	9.3
## 2266	TX 48473	Waller, TX	13.9
## 2267	TX 48475	Ward, TX	20.6
## 2268	TX 48477	Washington, TX	13.8
## 2269	TX 48479	Webb, TX	13.8
## 2270	TX 48481	Wharton, TX	10.4
## 2271	TX 48485	Wichita, TX	27.9
## 2272	TX 48487	Wilbarger, TX	17.4
## 2273	TX 48489	Willacy, TX	7.3
## 2274	TX 48491	Williamson, TX	11.5
## 2275	TX 48493	Wilson, TX	11.7
## 2276	TX 48495	Winkler, TX	24.0
## 2277	TX 48497	Wise, TX	15.2
## 2278	TX 48499	Wood, TX	19.6
## 2279	TX 48503	Young, TX	30.6
## 2280	TX 48505	Zapata, TX	13.3
## 2281	TX 48507	Zavala, TX	14.6
## 2282	UT 49001	Beaver, UT	27.4
## 2283	UT 49003	Box Elder, UT	20.8
## 2284	UT 49005	Cache, UT	12.7
## 2285	UT 49007	Carbon, UT	51.4
## 2286	UT 49011	Davis, UT	18.1
## 2287	UT 49013	Duchesne, UT	35.4
## 2288	UT 49015	Emery, UT	36.5
## 2289	UT 49019	Grand, UT	38.5
## 2290	UT 49021	Iron, UT	26.0
## 2291	UT 49023	Juab, UT	27.3
## 2292	UT 49025	Kane, UT	34.0
## 2293	UT 49027	Millard, UT	19.4
## 2294	UT 49029	Morgan, UT	16.2
## 2295	UT 49035	Salt Lake, UT	28.9
## 2296	UT 49037	San Juan, UT	27.2
## 2297	UT 49039	Sanpete, UT	22.0
## 2298	UT 49041	Sevier, UT	21.6
## 2299	UT 49043	Summit, UT	19.7
## 2300	UT 49045	Tooele, UT	28.4
## 2301	UT 49047	Uintah, UT	33.1
## 2302	UT 49049	Utah, UT	17.2
## 2303	UT 49051	Wasatch, UT	17.3
## 2304	UT 49053	Washington, UT	21.6
## 2305	UT 49057	Weber, UT	28.5
## 2306	VA 51001	Accomack, VA	18.0
## 2307	VA 51003	Albemarle, VA	9.1
## 2308	VA 51005	Alleghany, VA	16.4
## 2309	VA 51007	Amelia, VA	12.3
## 2310	VA 51009	Amherst, VA	14.2

## 2311	VA 51011	Appomattox, VA	13.4
## 2312	VA 51013	Arlington, VA	9.9
## 2313	VA 51015	Augusta, VA	16.3
## 2314	VA 51019	Bedford, VA	15.8
## 2315	VA 51021	Bland, VA	26.9
## 2316	VA 51023	Botetourt, VA	14.5
## 2317	VA 51025	Brunswick, VA	10.1
## 2318	VA 51027	Buchanan, VA	39.9
## 2319	VA 51029	Buckingham, VA	9.0
## 2320	VA 51031	Campbell, VA	14.1
## 2321	VA 51033	Caroline, VA	13.6
## 2322	VA 51035	Carroll, VA	19.3
## 2323	VA 51037	Charlotte, VA	12.5
## 2324	VA 51041	Chesterfield, VA	12.6
## 2325	VA 51043	Clarke, VA	18.2
## 2326	VA 51047	Culpeper, VA	17.7
## 2327	VA 51049	Cumberland, VA	11.6
## 2328	VA 51051	Dickenson, VA	52.9
## 2329	VA 51053	Dinwiddie, VA	10.0
## 2330	VA 51057	Essex, VA	15.1
## 2331	VA 51059	Fairfax, VA	8.0
## 2332	VA 51061	Fauquier, VA	20.8
## 2333	VA 51063	Floyd, VA	20.9
## 2334	VA 51065	Fluvanna, VA	7.6
## 2335	VA 51067	Franklin, VA	20.9
## 2336	VA 51069	Frederick, VA	19.1
## 2337	VA 51071	Giles, VA	25.6
## 2338	VA 51073	Gloucester, VA	18.6
## 2339	VA 51075	Goochland, VA	14.4
## 2340	VA 51077	Grayson, VA	15.9
## 2341	VA 51079	Greene, VA	11.0
## 2342	VA 51083	Halifax, VA	14.6
## 2343	VA 51085	Hanover, VA	11.3
## 2344	VA 51087	Henrico, VA	13.5
## 2345	VA 51089	Henry, VA	29.7
## 2346	VA 51093	Isle of Wight, VA	13.1
## 2347	VA 51095	James City, VA	12.9
## 2348	VA 51099	King George, VA	13.8
## 2349	VA 51101	King William, VA	14.5
## 2350	VA 51103	Lancaster, VA	16.1
## 2351	VA 51105	Lee, VA	31.1
## 2352	VA 51107	Loudoun, VA	7.9
## 2353	VA 51109	Louisa, VA	14.2
## 2354	VA 51111	Lunenburg, VA	10.8
## 2355	VA 51115	Mathews, VA	15.4
## 2356	VA 51117	Mecklenburg, VA	15.9
## 2357	VA 51119	Middlesex, VA	19.0
## 2358	VA 51121	Montgomery, VA	14.6
## 2359	VA 51125	Nelson, VA	16.1
## 2360	VA 51127	New Kent, VA	11.0
## 2361	VA 51131	Northampton, VA	16.8
## 2362	VA 51133	Northumberland, VA	14.8
## 2363	VA 51135	Nottoway, VA	13.4
## 2364	VA 51137	Orange, VA	20.0

## 2365	VA 51139	Page, VA	20.8
## 2366	VA 51141	Patrick, VA	23.2
## 2367	VA 51143	Pittsylvania, VA	18.8
## 2368	VA 51145	Powhatan, VA	9.2
## 2369	VA 51147	Prince Edward, VA	10.7
## 2370	VA 51153	Prince William, VA	10.4
## 2371	VA 51155	Pulaski, VA	38.2
## 2372	VA 51159	Richmond, VA	15.9
## 2373	VA 51161	Roanoke, VA	16.7
## 2374	VA 51165	Rockingham, VA	10.5
## 2375	VA 51167	Russell, VA	37.3
## 2376	VA 51169	Scott, VA	25.4
## 2377	VA 51171	Shenandoah, VA	17.9
## 2378	VA 51173	Smyth, VA	25.0
## 2379	VA 51175	Southampton, VA	13.6
## 2380	VA 51177	Spotsylvania, VA	13.1
## 2381	VA 51179	Stafford, VA	10.8
## 2382	VA 51185	Tazewell, VA	39.1
## 2383	VA 51187	Warren, VA	23.3
## 2384	VA 51191	Washington, VA	21.2
## 2385	VA 51193	Westmoreland, VA	24.0
## 2386	VA 51195	Wise, VA	40.7
## 2387	VA 51197	Wythe, VA	26.6
## 2388	VA 51199	York, VA	8.9
## 2389	VA 51510	Alexandria, VA	11.4
## 2390	VA 51520	Bristol, VA	35.3
## 2391	VA 51530	Buena Vista, VA	17.8
## 2392	VA 51540	Charlottesville, VA	14.4
## 2393	VA 51550	Chesapeake, VA	13.7
## 2394	VA 51570	Colonial Heights, VA	16.0
## 2395	VA 51580	Covington, VA	18.5
## 2396	VA 51590	Danville, VA	24.0
## 2397	VA 51600	Fairfax, VA	17.4
## 2398	VA 51610	Falls Church, VA	15.6
## 2399	VA 51620	Franklin, VA	16.5
## 2400	VA 51630	Fredericksburg, VA	19.3
## 2401	VA 51640	Galax, VA	18.6
## 2402	VA 51650	Hampton, VA	15.2
## 2403	VA 51660	Harrisonburg, VA	11.4
## 2404	VA 51670	Hopewell, VA	19.4
## 2405	VA 51680	Lynchburg, VA	16.1
## 2406	VA 51683	Manassas, VA	13.4
## 2407	VA 51690	Martinsville, VA	32.7
## 2408	VA 51700	Newport News, VA	16.2
## 2409	VA 51710	Norfolk, VA	18.6
## 2410	VA 51720	Norton, VA	32.5
## 2411	VA 51730	Petersburg, VA	20.3
## 2412	VA 51735	Poquoson, VA	16.3
## 2413	VA 51740	Portsmouth, VA	21.0
## 2414	VA 51750	Radford, VA	14.9
## 2415	VA 51760	Richmond, VA	26.1
## 2416	VA 51770	Roanoke, VA	29.7
## 2417	VA 51775	Salem, VA	23.8
## 2418	VA 51790	Staunton, VA	24.9

## 2419	VA 51800	Suffolk, VA	12.4
## 2420	VA 51810	Virginia Beach, VA	14.8
## 2421	VA 51820	Waynesboro, VA	24.2
## 2422	VA 51840	Winchester, VA	24.6
## 2423	VT 50001	Addison, VT	18.7
## 2424	VT 50003	Bennington, VT	24.1
## 2425	VT 50005	Caledonia, VT	21.5
## 2426	VT 50007	Chittenden, VT	20.3
## 2427	VT 50009	Essex, VT	29.7
## 2428	VT 50011	Franklin, VT	21.2
## 2429	VT 50013	Grand Isle, VT	18.1
## 2430	VT 50015	Lamoille, VT	18.2
## 2431	VT 50017	Orange, VT	20.8
## 2432	VT 50019	Orleans, VT	27.0
## 2433	VT 50021	Rutland, VT	26.3
## 2434	VT 50023	Washington, VT	21.4
## 2435	VT 50025	Windham, VT	29.4
## 2436	VT 50027	Windsor, VT	23.0
## 2437	WA 53001	Adams, WA	13.1
## 2438	WA 53003	Asotin, WA	36.2
## 2439	WA 53005	Benton, WA	21.4
## 2440	WA 53007	Chelan, WA	28.7
## 2441	WA 53009	Clallam, WA	39.9
## 2442	WA 53011	Clark, WA	23.8
## 2443	WA 53013	Columbia, WA	27.8
## 2444	WA 53015	Cowlitz, WA	41.7
## 2445	WA 53017	Douglas, WA	20.5
## 2446	WA 53019	Ferry, WA	49.0
## 2447	WA 53021	Franklin, WA	15.7
## 2448	WA 53025	Grant, WA	24.0
## 2449	WA 53027	Grays Harbor, WA	42.5
## 2450	WA 53029	Island, WA	21.8
## 2451	WA 53031	Jefferson, WA	34.1
## 2452	WA 53033	King, WA	22.8
## 2453	WA 53035	Kitsap, WA	27.0
## 2454	WA 53037	Kittitas, WA	18.1
## 2455	WA 53039	Klickitat, WA	24.2
## 2456	WA 53041	Lewis, WA	31.2
## 2457	WA 53043	Lincoln, WA	31.1
## 2458	WA 53045	Mason, WA	38.8
## 2459	WA 53047	Okanogan, WA	44.5
## 2460	WA 53049	Pacific, WA	49.9
## 2461	WA 53051	Pend Oreille, WA	36.2
## 2462	WA 53053	Pierce, WA	26.5
## 2463	WA 53055	San Juan, WA	26.1
## 2464	WA 53057	Skagit, WA	31.3
## 2465	WA 53059	Skamania, WA	29.7
## 2466	WA 53061	Snohomish, WA	27.4
## 2467	WA 53063	Spokane, WA	33.0
## 2468	WA 53065	Stevens, WA	29.1
## 2469	WA 53067	Thurston, WA	24.0
## 2470	WA 53071	Walla Walla, WA	26.9
## 2471	WA 53073	Whatcom, WA	24.4
## 2472	WA 53075	Whitman, WA	10.4

## 2473	WA 53077	Yakima, WA	22.2
## 2474	WI 55001	Adams, WI	24.7
## 2475	WI 55003	Ashland, WI	24.9
## 2476	WI 55005	Barron, WI	14.3
## 2477	WI 55007	Bayfield, WI	19.5
## 2478	WI 55009	Brown, WI	16.9
## 2479	WI 55011	Buffalo, WI	14.3
## 2480	WI 55013	Burnett, WI	24.5
## 2481	WI 55015	Calumet, WI	11.6
## 2482	WI 55017	Chippewa, WI	13.3
## 2483	WI 55019	Clark, WI	6.3
## 2484	WI 55021	Columbia, WI	23.4
## 2485	WI 55023	Crawford, WI	14.2
## 2486	WI 55025	Dane, WI	19.7
## 2487	WI 55027	Dodge, WI	17.3
## 2488	WI 55029	Door, WI	16.9
## 2489	WI 55031	Douglas, WI	20.8
## 2490	WI 55033	Dunn, WI	12.1
## 2491	WI 55035	Eau Claire, WI	14.1
## 2492	WI 55039	Fond du Lac, WI	17.0
## 2493	WI 55041	Forest, WI	30.8
## 2494	WI 55043	Grant, WI	9.8
## 2495	WI 55045	Green, WI	14.4
## 2496	WI 55047	Green Lake, WI	18.9
## 2497	WI 55049	Iowa, WI	15.4
## 2498	WI 55051	Iron, WI	19.6
## 2499	WI 55053	Jackson, WI	17.7
## 2500	WI 55055	Jefferson, WI	14.7
## 2501	WI 55057	Juneau, WI	25.4
## 2502	WI 55059	Kenosha, WI	26.4
## 2503	WI 55061	Kewaunee, WI	12.5
## 2504	WI 55063	La Crosse, WI	19.3
## 2505	WI 55065	Lafayette, WI	8.3
## 2506	WI 55067	Langlade, WI	18.7
## 2507	WI 55069	Lincoln, WI	18.6
## 2508	WI 55071	Manitowoc, WI	19.2
## 2509	WI 55073	Marathon, WI	15.7
## 2510	WI 55075	Marinette, WI	17.5
## 2511	WI 55077	Marquette, WI	24.4
## 2512	WI 55079	Milwaukee, WI	30.5
## 2513	WI 55081	Monroe, WI	18.4
## 2514	WI 55083	Oconto, WI	15.4
## 2515	WI 55085	Oneida, WI	19.6
## 2516	WI 55087	Outagamie, WI	13.5
## 2517	WI 55089	Ozaukee, WI	11.3
## 2518	WI 55093	Pierce, WI	10.9
## 2519	WI 55095	Polk, WI	15.6
## 2520	WI 55097	Portage, WI	13.4
## 2521	WI 55099	Price, WI	10.6
## 2522	WI 55101	Racine, WI	23.8
## 2523	WI 55103	Richland, WI	13.0
## 2524	WI 55105	Rock, WI	22.7
## 2525	WI 55107	Rusk, WI	16.5
## 2526	WI 55109	St. Croix, WI	9.6



## 2527	WI 55111	Sauk, WI	20.2
## 2528	WI 55113	Sawyer, WI	30.7
## 2529	WI 55115	Shawano, WI	13.4
## 2530	WI 55117	Sheboygan, WI	19.6
## 2531	WI 55119	Taylor, WI	8.5
## 2532	WI 55121	Trempealeau, WI	12.7
## 2533	WI 55123	Vernon, WI	10.8
## 2534	WI 55125	Vilas, WI	28.8
## 2535	WI 55127	Walworth, WI	19.4
## 2536	WI 55129	Washburn, WI	21.3
## 2537	WI 55131	Washington, WI	15.7
## 2538	WI 55133	Waukesha, WI	15.1
## 2539	WI 55135	Waupaca, WI	19.6
## 2540	WI 55137	Waushara, WI	13.3
## 2541	WI 55139	Winnebago, WI	19.3
## 2542	WI 55141	Wood, WI	14.5
## 2543	WV 54001	Barbour, WV	18.6
## 2544	WV 54003	Berkeley, WV	34.0
## 2545	WV 54005	Boone, WV	52.7
## 2546	WV 54007	Braxton, WV	20.2
## 2547	WV 54009	Brooke, WV	30.1
## 2548	WV 54011	Cabell, WV	44.9
## 2549	WV 54013	Calhoun, WV	17.0
## 2550	WV 54015	Clay, WV	25.9
## 2551	WV 54017	Doddridge, WV	14.7
## 2552	WV 54019	Fayette, WV	40.5
## 2553	WV 54023	Grant, WV	11.9
## 2554	WV 54025	Greenbrier, WV	28.7
## 2555	WV 54027	Hampshire, WV	31.7
## 2556	WV 54029	Hancock, WV	31.9
## 2557	WV 54031	Hardy, WV	15.6
## 2558	WV 54033	Harrison, WV	28.1
## 2559	WV 54035	Jackson, WV	17.7
## 2560	WV 54037	Jefferson, WV	28.3
## 2561	WV 54039	Kanawha, WV	38.6
## 2562	WV 54041	Lewis, WV	18.8
## 2563	WV 54043	Lincoln, WV	34.1
## 2564	WV 54045	Logan, WV	45.9
## 2565	WV 54047	McDowell, WV	74.5
## 2566	WV 54049	Marion, WV	17.1
## 2567	WV 54051	Marshall, WV	20.3
## 2568	WV 54053	Mason, WV	30.7
## 2569	WV 54055	Mercer, WV	51.9
## 2570	WV 54057	Mineral, WV	20.0
## 2571	WV 54059	Mingo, WV	54.6
## 2572	WV 54061	Monongalia, WV	14.4
## 2573	WV 54063	Monroe, WV	30.3
## 2574	WV 54065	Morgan, WV	27.3
## 2575	WV 54067	Nicholas, WV	35.3
## 2576	WV 54069	Ohio, WV	23.1
## 2577	WV 54071	Pendleton, WV	15.0
## 2578	WV 54075	Pocahontas, WV	34.5
## 2579	WV 54077	Preston, WV	17.6
## 2580	WV 54079	Putnam, WV	21.1

## 2581	WV 54081	Raleigh, WV	45.4	
## 2582	WV 54083	Randolph, WV	21.9	
## 2583	WV 54085	Ritchie, WV	12.4	
## 2584	WV 54087	Roane, WV	25.9	
## 2585	WV 54089	Summers, WV	41.8	
## 2586	WV 54091	Taylor, WV	18.4	
## 2587	WV 54095	Tyler, WV	17.3	
## 2588	WV 54097	Upshur, WV	16.4	
## 2589	WV 54099	Wayne, WV	32.7	
## 2590	WV 54101	Webster, WV	34.1	
## 2591	WV 54103	Wetzel, WV	16.6	
## 2592	WV 54107	Wood, WV	22.7	
## 2593	WV 54109	Wyoming, WV	67.4	
## 2594	WY 56001	Albany, WY	19.5	
## 2595	WY 56003	Big Horn, WY	25.5	
## 2596	WY 56005	Campbell, WY	20.8	
## 2597	WY 56007	Carbon, WY	34.0	
## 2598	WY 56009	Converse, WY	18.6	
## 2599	WY 56011	Crook, WY	16.8	
## 2600	WY 56013	Fremont, WY	53.0	
## 2601	WY 56015	Goshen, WY	20.7	
## 2602	WY 56019	Johnson, WY	22.9	
## 2603	WY 56021	Laramie, WY	31.4	
## 2604	WY 56023	Lincoln, WY	22.1	
## 2605	WY 56025	Natrona, WY	36.9	
## 2606	WY 56029	Park, WY	23.5	
## 2607	WY 56031	Platte, WY	27.4	
## 2608	WY 56033	Sheridan, WY	27.9	
## 2609	WY 56037	Sweetwater, WY	29.4	
## 2610	WY 56039	Teton, WY	10.8	
## 2611	WY 56041	Uinta, WY	29.0	
## 2612	WY 56043	Washakie, WY	28.3	
##	below.poverty.rate	education.highschool	z.highschool	z.poverty
## 1	5.6	23.8	-1.433507480	-1.1647062951
## 2	4.2	20.4	-1.907399951	-1.4119123161
## 3	7.1	32.2	-0.262714315	-0.8998427012
## 4	7.5	29.9	-0.583288634	-0.8292124095
## 5	6.2	31.3	-0.388156439	-1.0587608575
## 6	6.4	32.2	-0.262714315	-1.0234457117
## 7	4.2	28.3	-0.806296855	-1.4119123161
## 8	7.4	32.7	-0.193024245	-0.8468699824
## 9	4.8	22.3	-1.642577688	-1.3059668785
## 10	9.4	32.6	-0.206962259	-0.4937185239
## 11	20.0	35.7	0.225116171	1.3779842063
## 12	11.7	47.3	1.841925780	-0.0875943466
## 13	12.2	34.0	-0.011830065	0.0006935181
## 14	9.3	27.6	-0.903862953	-0.5113760968
## 15	20.6	43.9	1.368033308	1.4839296439
## 16	15.8	32.4	-0.234838287	0.6363661434
## 17	15.3	38.4	0.601442545	0.5480782788
## 18	25.3	39.7	0.782636726	2.3138355714
## 19	15.8	44.1	1.395909336	0.6363661434
## 20	16.2	38.2	0.573566518	0.7069964351
## 21	17.7	43.7	1.340157280	0.9718600290

## 22	13.2	36.3	0.308744254	0.1772692473
## 23	12.2	39.6	0.768698712	0.0006935181
## 24	12.9	27.9	-0.862048911	0.1242965285
## 25	13.1	36.0	0.266930212	0.1596116744
## 26	28.0	48.8	2.050995988	2.7905900405
## 27	9.7	38.6	0.629318573	-0.4407458051
## 28	14.2	35.4	0.183302129	0.3538449766
## 29	15.0	38.8	0.657194601	0.4951055600
## 30	12.0	35.6	0.211178157	-0.0346216278
## 31	13.3	38.3	0.587504531	0.1949268203
## 32	27.0	35.2	0.155426101	2.6140143112
## 33	14.3	33.3	-0.109396162	0.3715025495
## 34	11.0	32.8	-0.179086231	-0.2111973571
## 35	19.7	44.5	1.451661391	1.3250114876
## 36	14.2	32.9	-0.165148217	0.3538449766
## 37	13.1	41.5	1.033520975	0.1596116744
## 38	17.1	36.8	0.378434323	0.8659145915
## 39	16.9	37.2	0.434186379	0.8305994456
## 40	12.8	33.5	-0.081520134	0.1066389556
## 41	14.9	31.6	-0.346342398	0.4774479871
## 42	15.8	40.8	0.935954878	0.6363661434
## 43	14.3	26.8	-1.015367063	0.3715025495
## 44	17.7	39.9	0.810512753	0.9718600290
## 45	13.4	36.0	0.266930212	0.2125843932
## 46	14.6	41.5	1.033520975	0.4244752683
## 47	13.9	24.1	-1.391693438	0.3008722578
## 48	10.6	30.3	-0.527536578	-0.2818276488
## 49	19.9	30.1	-0.555412606	1.3603266334
## 50	9.6	20.8	-1.851647896	-0.4584033780
## 51	20.6	39.8	0.796574739	1.4839296439
## 52	15.2	34.8	0.099674046	0.5304207059
## 53	15.3	31.1	-0.416032467	0.5480782788
## 54	15.6	33.5	-0.081520134	0.6010509976
## 55	23.6	46.1	1.674669613	2.0136568317
## 56	17.0	25.5	-1.196561244	0.8482570185
## 57	13.7	29.6	-0.625102675	0.2655571120
## 58	18.3	36.7	0.364496310	1.0778054666
## 59	16.3	33.3	-0.109396162	0.7246540081
## 60	16.0	36.3	0.308744254	0.6716812893
## 61	16.8	32.3	-0.248776301	0.8129418727
## 62	10.3	36.0	0.266930212	-0.3348003675
## 63	5.6	20.3	-1.921337965	-1.1647062951
## 64	16.5	34.9	0.113612060	0.7599691539
## 65	19.0	32.9	-0.165148217	1.2014084771
## 66	12.1	29.9	-0.583288634	-0.0169640549
## 67	17.4	37.1	0.420248365	0.9188873102
## 68	17.1	43.2	1.270467211	0.8659145915
## 69	26.5	40.3	0.866264809	2.5257264466
## 70	15.8	37.4	0.462062407	0.6363661434
## 71	15.8	32.7	-0.193024245	0.6363661434
## 72	16.1	39.9	0.810512753	0.6893388622
## 73	9.2	35.0	0.127550074	-0.5290336697
## 74	8.8	29.1	-0.694792744	-0.5996639614
## 75	13.4	38.3	0.587504531	0.2125843932

## 76	11.5	34.6	0.071798018	-0.1229094924
## 77	26.0	39.2	0.712946656	2.4374385819
## 78	16.8	30.5	-0.499660550	0.8129418727
## 79	17.0	41.2	0.991706934	0.8482570185
## 80	10.9	40.7	0.922016864	-0.2288549300
## 81	19.4	39.9	0.810512753	1.2720387688
## 82	15.7	43.4	1.298343239	0.6187085705
## 83	13.2	34.1	0.002107949	0.1772692473
## 84	14.7	37.4	0.462062407	0.4421328412
## 85	19.0	35.0	0.127550074	1.2014084771
## 86	14.6	41.5	1.033520975	0.4244752683
## 87	26.8	44.0	1.381971322	2.5786991653
## 88	13.4	33.8	-0.039706093	0.2125843932
## 89	10.5	30.5	-0.499660550	-0.2994852217
## 90	13.7	40.1	0.838388781	0.2655571120
## 91	14.6	37.2	0.434186379	0.4244752683
## 92	14.1	31.5	-0.360280412	0.3361874037
## 93	10.3	44.2	1.409847350	-0.3348003675
## 94	12.4	44.2	1.409847350	0.0360086639
## 95	20.1	36.9	0.392372337	1.3956417793
## 96	12.7	39.6	0.768698712	0.0889813827
## 97	16.4	37.3	0.448124393	0.7423115810
## 98	14.7	35.8	0.239054185	0.4421328412
## 99	16.7	37.8	0.517814462	0.7952842998
## 100	21.4	41.1	0.977768920	1.6251902273
## 101	19.8	38.5	0.615380559	1.3426690605
## 102	15.7	41.2	0.991706934	0.6187085705
## 103	17.7	40.4	0.880202823	0.9718600290
## 104	12.8	42.7	1.200777142	0.1066389556
## 105	13.8	45.0	1.521351461	0.2832146849
## 106	8.8	35.1	0.141488088	-0.5996639614
## 107	15.4	45.6	1.604979544	0.5657358517
## 108	13.5	36.8	0.378434323	0.2302419661
## 109	16.6	35.9	0.252992199	0.7776267268
## 110	20.5	38.6	0.629318573	1.4662720710
## 111	13.1	36.5	0.336620282	0.1596116744
## 112	15.0	40.8	0.935954878	0.4951055600
## 113	21.5	41.6	1.047458989	1.6428478002
## 114	11.0	40.7	0.922016864	-0.2111973571
## 115	25.7	30.1	-0.555412606	2.3844658632
## 116	13.3	38.9	0.671132615	0.1949268203
## 117	15.6	44.3	1.423785364	0.6010509976
## 118	19.4	37.4	0.462062407	1.2720387688
## 119	14.0	35.5	0.197240143	0.3185298307
## 120	12.8	26.2	-1.098995147	0.1066389556
## 121	13.4	35.6	0.211178157	0.2125843932
## 122	19.3	38.8	0.657194601	1.2543811959
## 123	5.6	31.5	-0.360280412	-1.1647062951
## 124	16.3	43.0	1.242591183	0.7246540081
## 125	16.4	45.1	1.535289474	0.7423115810
## 126	16.8	32.0	-0.290590342	0.8129418727
## 127	17.9	36.1	0.280868226	1.0071751749
## 128	19.6	35.4	0.183302129	1.3073539146
## 129	15.5	36.3	0.308744254	0.5833934246

## 130	16.7	35.2	0.155426101	0.7952842998
## 131	13.9	43.9	1.368033308	0.3008722578
## 132	12.1	26.3	-1.085057133	-0.0169640549
## 133	13.2	38.4	0.601442545	0.1772692473
## 134	18.8	42.5	1.172901114	1.1660933312
## 135	13.5	40.9	0.949892892	0.2302419661
## 136	16.4	42.0	1.103211045	0.7423115810
## 137	29.0	33.1	-0.137272190	2.9671657697
## 138	14.9	23.5	-1.475321521	0.4774479871
## 139	14.3	28.6	-0.764482814	0.3715025495
## 140	17.2	29.9	-0.583288634	0.8835721644
## 141	10.3	36.2	0.294806240	-0.3348003675
## 142	14.5	21.4	-1.768019812	0.4068176954
## 143	12.1	22.6	-1.600763646	-0.0169640549
## 144	13.3	34.8	0.099674046	0.1949268203
## 145	24.2	30.1	-0.555412606	2.1196022693
## 146	13.2	22.5	-1.614701660	0.1772692473
## 147	11.8	29.7	-0.611164661	-0.0699367736
## 148	17.8	27.2	-0.959615008	0.9895176020
## 149	9.7	25.7	-1.168685216	-0.4407458051
## 150	17.4	25.9	-1.140809188	0.9188873102
## 151	14.0	33.0	-0.151210204	0.3185298307
## 152	8.1	17.6	-2.297664339	-0.7232669719
## 153	6.1	28.7	-0.750544800	-1.0764184305
## 154	12.4	22.7	-1.586825632	0.0360086639
## 155	10.8	23.7	-1.447445493	-0.2465125029
## 156	7.3	17.6	-2.297664339	-0.8645275553
## 157	16.7	31.5	-0.360280412	0.7952842998
## 158	8.0	27.6	-0.903862953	-0.7409245449
## 159	22.2	22.9	-1.558949604	1.7664508107
## 160	16.2	28.2	-0.820234869	0.7069964351
## 161	11.2	23.5	-1.475321521	-0.1758822112
## 162	21.0	24.5	-1.335941382	1.5545599356
## 163	7.1	29.3	-0.666916717	-0.8998427012
## 164	19.2	27.7	-0.889924939	1.2367236229
## 165	17.4	25.5	-1.196561244	0.9188873102
## 166	17.7	30.1	-0.555412606	0.9718600290
## 167	10.9	33.2	-0.123334176	-0.2288549300
## 168	13.9	20.7	-1.865585909	0.3008722578
## 169	18.2	25.0	-1.266251313	1.0601478937
## 170	4.6	10.9	-3.231511269	-1.3412820244
## 171	6.4	21.2	-1.795895840	-1.0234457117
## 172	14.7	25.8	-1.154747202	0.4421328412
## 173	20.6	25.8	-1.154747202	1.4839296439
## 174	8.4	32.3	-0.248776301	-0.6702942531
## 175	3.8	22.8	-1.572887618	-1.4825426078
## 176	12.3	20.4	-1.907399951	0.0183510910
## 177	6.0	18.0	-2.241912284	-1.0940760034
## 178	7.2	18.4	-2.186160228	-0.8821851283
## 179	8.7	17.1	-2.367354409	-0.6173215344
## 180	6.2	18.2	-2.214036256	-1.0587608575
## 181	6.1	25.2	-1.238375285	-1.0764184305
## 182	12.8	26.9	-1.001429050	0.1066389556
## 183	13.5	22.3	-1.642577688	0.2302419661

## 184	13.1	26.5	-1.057181105	0.1596116744
## 185	15.4	26.5	-1.057181105	0.5657358517
## 186	10.2	18.4	-2.186160228	-0.3524579405
## 187	7.0	12.3	-3.036379074	-0.9175002741
## 188	14.4	28.2	-0.820234869	0.3891601224
## 189	7.1	19.8	-1.991028034	-0.8998427012
## 190	4.6	15.0	-2.660052700	-1.3412820244
## 191	9.9	17.9	-2.255850298	-0.4054306592
## 192	6.2	14.5	-2.729742769	-1.0587608575
## 193	8.9	15.8	-2.548548589	-0.5820063885
## 194	11.0	24.8	-1.294127341	-0.2111973571
## 195	2.8	26.6	-1.043243091	-1.6591183370
## 196	16.3	25.5	-1.196561244	0.7246540081
## 197	9.7	23.3	-1.503197549	-0.4407458051
## 198	7.0	18.8	-2.130408173	-0.9175002741
## 199	14.4	28.6	-0.764482814	0.3891601224
## 200	14.4	23.9	-1.419569466	0.3891601224
## 201	14.5	30.7	-0.471784523	0.4068176954
## 202	14.3	33.4	-0.095458148	0.3715025495
## 203	23.5	26.0	-1.126871174	1.9959992588
## 204	9.8	28.4	-0.792358842	-0.4230882322
## 205	7.4	18.9	-2.116470159	-0.8468699824
## 206	9.4	18.5	-2.172222215	-0.4937185239
## 207	16.9	23.1	-1.531073577	0.8305994456
## 208	8.4	24.8	-1.294127341	-0.6702942531
## 209	9.7	28.4	-0.792358842	-0.4407458051
## 210	21.9	27.3	-0.945676994	1.7134780919
## 211	7.5	20.7	-1.865585909	-0.8292124095
## 212	20.1	48.6	2.023119960	1.3956417793
## 213	5.8	12.3	-3.036379074	-1.1293911492
## 214	3.7	14.7	-2.701866742	-1.5002001807
## 215	5.7	26.7	-1.029305077	-1.1470487222
## 216	4.3	20.9	-1.837709882	-1.3942547431
## 217	15.2	32.4	-0.234838287	0.5304207059
## 218	26.2	41.7	1.061397003	2.4727537278
## 219	11.6	38.2	0.573566518	-0.1052519195
## 220	12.2	17.0	-2.381292423	0.0006935181
## 221	2.9	12.2	-3.050317088	-1.6414607641
## 222	5.2	15.7	-2.562486603	-1.2353365868
## 223	3.8	24.6	-1.322003369	-1.4825426078
## 224	8.1	21.5	-1.754081798	-0.7232669719
## 225	14.0	39.8	0.796574739	0.3185298307
## 226	7.8	28.5	-0.778420828	-0.7762396907
## 227	4.4	26.5	-1.057181105	-1.3765971702
## 228	6.6	16.0	-2.520672561	-0.9881305658
## 229	13.8	28.7	-0.750544800	0.2832146849
## 230	5.1	20.6	-1.879523923	-1.2529941597
## 231	10.2	37.7	0.503876448	-0.3524579405
## 232	4.2	27.1	-0.973553022	-1.4119123161
## 233	5.3	20.3	-1.921337965	-1.2176790139
## 234	6.0	19.2	-2.074656117	-1.0940760034
## 235	9.2	28.8	-0.736606786	-0.5290336697
## 236	9.6	32.7	-0.193024245	-0.4584033780
## 237	12.0	27.3	-0.945676994	-0.0346216278

## 238	7.8	40.4	0.880202823	-0.7762396907
## 239	11.3	29.4	-0.652978703	-0.1582246383
## 240	14.3	31.8	-0.318466370	0.3715025495
## 241	7.4	31.1	-0.416032467	-0.8468699824
## 242	16.9	29.2	-0.680854731	0.8305994456
## 243	4.1	14.8	-2.687928728	-1.4295698890
## 244	16.1	25.9	-1.140809188	0.6893388622
## 245	15.2	28.7	-0.750544800	0.5304207059
## 246	9.6	33.7	-0.053644107	-0.4584033780
## 247	16.7	30.2	-0.541474592	0.7952842998
## 248	5.3	19.7	-2.004966048	-1.2176790139
## 249	6.5	15.2	-2.632176672	-1.0057881388
## 250	5.3	19.0	-2.102532145	-1.2176790139
## 251	4.4	25.5	-1.196561244	-1.3765971702
## 252	8.5	27.5	-0.917800966	-0.6526366802
## 253	8.0	20.2	-1.935275979	-0.7409245449
## 254	6.4	21.7	-1.726205771	-1.0234457117
## 255	8.5	26.9	-1.001429050	-0.6526366802
## 256	4.0	29.7	-0.611164661	-1.4472274619
## 257	9.1	30.9	-0.443908495	-0.5466912427
## 258	7.3	29.8	-0.597226647	-0.8645275553
## 259	3.2	27.5	-0.917800966	-1.5884880453
## 260	4.4	26.1	-1.112933161	-1.3765971702
## 261	7.8	33.0	-0.151210204	-0.7762396907
## 262	14.1	17.2	-2.353416395	0.3361874037
## 263	10.0	33.2	-0.123334176	-0.3877730863
## 264	7.2	30.6	-0.485722536	-0.8821851283
## 265	8.9	32.8	-0.179086231	-0.5820063885
## 266	12.9	21.7	-1.726205771	0.1242965285
## 267	12.2	42.8	1.214715155	0.0006935181
## 268	11.0	31.4	-0.374218426	-0.2111973571
## 269	15.6	39.7	0.782636726	0.6010509976
## 270	10.1	28.6	-0.764482814	-0.3701155134
## 271	11.1	27.4	-0.931738980	-0.1935397841
## 272	8.2	41.9	1.089273031	-0.7056093990
## 273	8.3	33.8	-0.039706093	-0.6879518261
## 274	11.6	38.3	0.587504531	-0.1052519195
## 275	7.9	31.6	-0.346342398	-0.7585821178
## 276	8.3	25.4	-1.210499258	-0.6879518261
## 277	14.1	36.1	0.280868226	0.3361874037
## 278	20.6	43.1	1.256529197	1.4839296439
## 279	15.9	44.7	1.479537419	0.6540237163
## 280	12.7	27.9	-0.862048911	0.0889813827
## 281	9.6	27.3	-0.945676994	-0.4584033780
## 282	8.5	33.9	-0.025768079	-0.6526366802
## 283	16.5	35.7	0.225116171	0.7599691539
## 284	18.4	36.6	0.350558296	1.0954630395
## 285	18.4	42.2	1.131087072	1.0954630395
## 286	18.4	40.6	0.908078850	1.0954630395
## 287	12.3	37.3	0.448124393	0.0183510910
## 288	21.7	44.0	1.381971322	1.6781629461
## 289	19.8	47.9	1.925553863	1.3426690605
## 290	23.1	34.8	0.099674046	1.9253689671
## 291	11.6	36.4	0.322682268	-0.1052519195

## 292	13.5	38.0	0.545690490	0.2302419661
## 293	12.1	27.1	-0.973553022	-0.0169640549
## 294	19.4	39.0	0.685070628	1.2720387688
## 295	8.5	29.7	-0.611164661	-0.6526366802
## 296	17.9	37.4	0.462062407	1.0071751749
## 297	11.3	33.3	-0.109396162	-0.1582246383
## 298	21.9	40.8	0.935954878	1.7134780919
## 299	10.0	32.9	-0.165148217	-0.3877730863
## 300	10.7	30.8	-0.457846509	-0.2641700758
## 301	10.0	19.1	-2.088594131	-0.3877730863
## 302	16.9	41.1	0.977768920	0.8305994456
## 303	23.5	38.1	0.559628504	1.9959992588
## 304	9.4	30.4	-0.513598564	-0.4937185239
## 305	12.9	37.5	0.476000420	0.1242965285
## 306	7.3	25.2	-1.238375285	-0.8645275553
## 307	16.3	27.7	-0.889924939	0.7246540081
## 308	7.5	27.3	-0.945676994	-0.8292124095
## 309	9.3	32.7	-0.193024245	-0.5113760968
## 310	9.1	24.7	-1.308065355	-0.5466912427
## 311	18.5	38.4	0.601442545	1.1131206124
## 312	13.2	24.5	-1.335941382	0.1772692473
## 313	16.3	31.9	-0.304528356	0.7246540081
## 314	9.9	24.5	-1.335941382	-0.4054306592
## 315	9.6	33.1	-0.137272190	-0.4584033780
## 316	9.5	28.3	-0.806296855	-0.4760609510
## 317	13.0	35.4	0.183302129	0.1419541015
## 318	20.0	40.7	0.922016864	1.3779842063
## 319	5.9	21.4	-1.768019812	-1.1117335763
## 320	13.5	33.7	-0.053644107	0.2302419661
## 321	8.8	27.2	-0.959615008	-0.5996639614
## 322	6.9	29.1	-0.694792744	-0.9351578470
## 323	8.5	21.7	-1.726205771	-0.6526366802
## 324	5.6	30.2	-0.541474592	-1.1647062951
## 325	19.0	39.3	0.726884670	1.2014084771
## 326	11.3	43.3	1.284405225	-0.1582246383
## 327	19.0	37.9	0.531752476	1.2014084771
## 328	11.1	32.2	-0.262714315	-0.1935397841
## 329	10.8	35.9	0.252992199	-0.2465125029
## 330	11.6	27.6	-0.903862953	-0.1052519195
## 331	16.6	41.5	1.033520975	0.7776267268
## 332	16.3	38.3	0.587504531	0.7246540081
## 333	13.1	41.9	1.089273031	0.1596116744
## 334	18.4	36.4	0.322682268	1.0954630395
## 335	11.6	40.6	0.908078850	-0.1052519195
## 336	10.4	34.4	0.043921991	-0.3171427946
## 337	11.2	33.0	-0.151210204	-0.1758822112
## 338	30.2	44.2	1.409847350	3.1790566449
## 339	20.9	42.3	1.145025086	1.5369023627
## 340	22.6	31.6	-0.346342398	1.8370811024
## 341	16.5	41.7	1.061397003	0.7599691539
## 342	14.8	46.6	1.744359682	0.4597904142
## 343	19.4	38.1	0.559628504	1.2720387688
## 344	10.3	25.6	-1.182623230	-0.3348003675
## 345	19.6	27.3	-0.945676994	1.3073539146



## 346	25.9	37.4	0.462062407	2.4197810090
## 347	18.0	44.0	1.381971322	1.0248327478
## 348	12.0	31.5	-0.360280412	-0.0346216278
## 349	26.3	36.1	0.280868226	2.4904113007
## 350	13.6	33.2	-0.123334176	0.2478995390
## 351	8.9	32.4	-0.234838287	-0.5820063885
## 352	13.8	39.1	0.699008642	0.2832146849
## 353	13.6	24.3	-1.363817410	0.2478995390
## 354	16.5	38.7	0.643256587	0.7599691539
## 355	7.6	22.8	-1.572887618	-0.8115548366
## 356	21.3	21.1	-1.809833854	1.6075326544
## 357	20.1	32.9	-0.165148217	1.3956417793
## 358	8.6	18.7	-2.144346187	-0.6349791073
## 359	18.7	38.6	0.629318573	1.1484357583
## 360	21.5	39.4	0.740822684	1.6428478002
## 361	7.3	24.9	-1.280189327	-0.8645275553
## 362	21.3	34.4	0.043921991	1.6075326544
## 363	9.9	28.6	-0.764482814	-0.4054306592
## 364	15.8	39.4	0.740822684	0.6363661434
## 365	27.6	39.1	0.699008642	2.7199597488
## 366	10.8	35.8	0.239054185	-0.2465125029
## 367	9.5	28.6	-0.764482814	-0.4760609510
## 368	23.9	36.1	0.280868226	2.0666295505
## 369	14.4	20.8	-1.851647896	0.3891601224
## 370	17.7	42.3	1.145025086	0.9718600290
## 371	22.4	39.6	0.768698712	1.8017659566
## 372	25.1	29.0	-0.708730758	2.2785204256
## 373	12.5	30.7	-0.471784523	0.0536662368
## 374	26.5	36.0	0.266930212	2.5257264466
## 375	7.9	37.8	0.517814462	-0.7585821178
## 376	17.7	43.1	1.256529197	0.9718600290
## 377	20.6	42.9	1.228653169	1.4839296439
## 378	21.7	37.5	0.476000420	1.6781629461
## 379	13.4	34.3	0.029983977	0.2125843932
## 380	5.8	20.7	-1.865585909	-1.1293911492
## 381	14.6	33.1	-0.137272190	0.4244752683
## 382	4.9	16.6	-2.437044478	-1.2883093056
## 383	18.7	40.1	0.838388781	1.1484357583
## 384	12.5	18.3	-2.200098242	0.0536662368
## 385	12.4	36.4	0.322682268	0.0360086639
## 386	15.2	27.0	-0.987491036	0.5304207059
## 387	17.5	35.2	0.155426101	0.9365448832
## 388	21.2	37.8	0.517814462	1.5898750815
## 389	15.8	33.6	-0.067582120	0.6363661434
## 390	10.6	22.8	-1.572887618	-0.2818276488
## 391	12.7	33.7	-0.053644107	0.0889813827
## 392	13.3	27.5	-0.917800966	0.1949268203
## 393	17.8	36.6	0.350558296	0.9895176020
## 394	5.9	23.5	-1.475321521	-1.1117335763
## 395	18.2	36.7	0.364496310	1.0601478937
## 396	13.3	43.5	1.312281253	0.1949268203
## 397	9.8	31.1	-0.416032467	-0.4230882322
## 398	14.7	27.2	-0.959615008	0.4421328412
## 399	11.0	32.3	-0.248776301	-0.2111973571

## 400	15.0	38.9	0.671132615	0.4951055600
## 401	18.8	40.4	0.880202823	1.1660933312
## 402	21.4	41.3	1.005644947	1.6251902273
## 403	20.6	40.5	0.894140837	1.4839296439
## 404	17.1	44.0	1.381971322	0.8659145915
## 405	10.8	36.7	0.364496310	-0.2465125029
## 406	17.9	40.1	0.838388781	1.0071751749
## 407	21.7	43.4	1.298343239	1.6781629461
## 408	9.6	30.8	-0.457846509	-0.4584033780
## 409	14.4	32.0	-0.290590342	0.3891601224
## 410	20.2	41.4	1.019582961	1.4132993522
## 411	13.1	31.5	-0.360280412	0.1596116744
## 412	17.3	30.0	-0.569350620	0.9012297373
## 413	11.3	29.2	-0.680854731	-0.1582246383
## 414	22.2	40.5	0.894140837	1.7664508107
## 415	15.5	38.1	0.559628504	0.5833934246
## 416	26.9	34.1	0.002107949	2.5963567383
## 417	11.6	38.0	0.545690490	-0.1052519195
## 418	16.4	38.9	0.671132615	0.7423115810
## 419	20.5	38.1	0.559628504	1.4662720710
## 420	22.6	38.2	0.573566518	1.8370811024
## 421	10.1	33.9	-0.025768079	-0.3701155134
## 422	11.3	34.8	0.099674046	-0.1582246383
## 423	15.4	37.8	0.517814462	0.5657358517
## 424	16.3	27.3	-0.945676994	0.7246540081
## 425	13.1	33.6	-0.067582120	0.1596116744
## 426	5.4	19.6	-2.018904062	-1.2000214409
## 427	14.4	36.6	0.350558296	0.3891601224
## 428	9.1	33.1	-0.137272190	-0.5466912427
## 429	16.7	29.0	-0.708730758	0.7952842998
## 430	6.8	29.1	-0.694792744	-0.9528154200
## 431	15.9	44.0	1.381971322	0.6540237163
## 432	9.2	40.9	0.949892892	-0.5290336697
## 433	16.5	39.6	0.768698712	0.7599691539
## 434	19.1	37.5	0.476000420	1.2190660500
## 435	11.5	37.5	0.476000420	-0.1229094924
## 436	15.6	34.0	-0.011830065	0.6010509976
## 437	20.7	30.7	-0.471784523	1.5015872168
## 438	13.9	31.5	-0.360280412	0.3008722578
## 439	18.9	42.7	1.200777142	1.1837509041
## 440	17.7	39.6	0.768698712	0.9718600290
## 441	18.5	39.4	0.740822684	1.1131206124
## 442	13.0	36.7	0.364496310	0.1419541015
## 443	27.0	33.2	-0.123334176	2.6140143112
## 444	20.2	39.1	0.699008642	1.4132993522
## 445	25.9	37.5	0.476000420	2.4197810090
## 446	23.9	45.9	1.646793585	2.0666295505
## 447	29.8	31.9	-0.304528356	3.1084263531
## 448	18.4	30.9	-0.443908495	1.0954630395
## 449	21.9	34.5	0.057860004	1.7134780919
## 450	20.6	38.5	0.615380559	1.4839296439
## 451	10.5	30.8	-0.457846509	-0.2994852217
## 452	16.9	34.3	0.029983977	0.8305994456
## 453	19.0	40.4	0.880202823	1.2014084771

## 454	21.9	37.6	0.489938434	1.7134780919
## 455	9.2	34.2	0.016045963	-0.5290336697
## 456	17.3	35.9	0.252992199	0.9012297373
## 457	13.6	36.2	0.294806240	0.2478995390
## 458	10.0	37.8	0.517814462	-0.3877730863
## 459	23.0	40.9	0.949892892	1.9077113941
## 460	21.0	42.5	1.172901114	1.5545599356
## 461	15.2	40.6	0.908078850	0.5304207059
## 462	14.8	31.6	-0.346342398	0.4597904142
## 463	15.1	28.9	-0.722668772	0.5127631329
## 464	16.2	48.4	1.995243932	0.7069964351
## 465	19.3	44.8	1.493475433	1.2543811959
## 466	17.0	52.3	2.538826473	0.8482570185
## 467	15.4	41.8	1.075335017	0.5657358517
## 468	14.1	30.4	-0.513598564	0.3361874037
## 469	6.1	26.2	-1.098995147	-1.0764184305
## 470	6.1	30.1	-0.555412606	-1.0764184305
## 471	6.8	31.8	-0.318466370	-0.9528154200
## 472	6.8	38.9	0.671132615	-0.9528154200
## 473	8.4	37.0	0.406310351	-0.6702942531
## 474	6.5	36.3	0.308744254	-1.0057881388
## 475	9.1	30.2	-0.541474592	-0.5466912427
## 476	5.6	32.3	-0.248776301	-1.1647062951
## 477	4.0	32.3	-0.248776301	-1.4472274619
## 478	6.9	38.9	0.671132615	-0.9351578470
## 479	9.8	29.5	-0.639040689	-0.4230882322
## 480	5.4	37.8	0.517814462	-1.2000214409
## 481	6.8	36.3	0.308744254	-0.9528154200
## 482	11.3	37.9	0.531752476	-0.1582246383
## 483	3.3	35.9	0.252992199	-1.5708304724
## 484	8.6	30.8	-0.457846509	-0.6349791073
## 485	8.5	35.9	0.252992199	-0.6526366802
## 486	5.3	43.5	1.312281253	-1.2176790139
## 487	13.9	41.4	1.019582961	0.3008722578
## 488	8.6	34.1	0.002107949	-0.6349791073
## 489	6.2	43.6	1.326219266	-1.0587608575
## 490	9.9	37.2	0.434186379	-0.4054306592
## 491	14.3	36.0	0.266930212	0.3715025495
## 492	3.5	18.0	-2.241912284	-1.5355153266
## 493	6.5	43.1	1.256529197	-1.0057881388
## 494	12.9	32.8	-0.179086231	0.1242965285
## 495	3.9	28.1	-0.834172883	-1.4648850348
## 496	7.9	33.0	-0.151210204	-0.7585821178
## 497	9.2	33.3	-0.109396162	-0.5290336697
## 498	7.8	38.9	0.671132615	-0.7762396907
## 499	9.0	34.0	-0.011830065	-0.5643488156
## 500	7.0	35.9	0.252992199	-0.9175002741
## 501	9.0	39.5	0.754760698	-0.5643488156
## 502	6.8	38.6	0.629318573	-0.9528154200
## 503	7.5	31.4	-0.374218426	-0.8292124095
## 504	6.5	36.5	0.336620282	-1.0057881388
## 505	4.7	34.4	0.043921991	-1.3236244514
## 506	7.9	38.0	0.545690490	-0.7585821178
## 507	9.9	37.7	0.503876448	-0.4054306592

## 508	6.4	37.7	0.503876448	-1.0234457117
## 509	10.0	41.9	1.089273031	-0.3877730863
## 510	5.3	42.4	1.158963100	-1.2176790139
## 511	6.8	27.7	-0.889924939	-0.9528154200
## 512	6.7	16.2	-2.492796534	-0.9704729929
## 513	7.0	39.7	0.782636726	-0.9175002741
## 514	6.0	37.6	0.489938434	-1.0940760034
## 515	11.4	41.0	0.963830906	-0.1405670654
## 516	6.1	27.1	-0.973553022	-1.0764184305
## 517	8.4	36.5	0.336620282	-0.6702942531
## 518	3.6	35.9	0.252992199	-1.5178577536
## 519	9.8	38.8	0.657194601	-0.4230882322
## 520	7.7	35.5	0.197240143	-0.7938972636
## 521	6.7	34.1	0.002107949	-0.9704729929
## 522	4.5	34.6	0.071798018	-1.3589395973
## 523	9.5	39.7	0.782636726	-0.4760609510
## 524	10.2	40.7	0.922016864	-0.3524579405
## 525	14.0	37.1	0.420248365	0.3185298307
## 526	10.2	34.7	0.085736032	-0.3524579405
## 527	9.5	34.6	0.071798018	-0.4760609510
## 528	4.9	29.0	-0.708730758	-1.2883093056
## 529	6.5	33.8	-0.039706093	-1.0057881388
## 530	8.8	24.8	-1.294127341	-0.5996639614
## 531	8.1	33.1	-0.137272190	-0.7232669719
## 532	6.4	37.5	0.476000420	-1.0234457117
## 533	6.1	37.2	0.434186379	-1.0764184305
## 534	8.6	29.9	-0.583288634	-0.6349791073
## 535	5.7	36.1	0.280868226	-1.1470487222
## 536	4.9	31.4	-0.374218426	-1.2883093056
## 537	5.3	17.9	-2.255850298	-1.2176790139
## 538	9.2	40.0	0.824450767	-0.5290336697
## 539	8.3	36.3	0.308744254	-0.6879518261
## 540	13.2	35.7	0.225116171	0.1772692473
## 541	5.5	30.4	-0.513598564	-1.1823638680
## 542	6.8	39.3	0.726884670	-0.9528154200
## 543	11.8	34.1	0.002107949	-0.0699367736
## 544	5.5	32.7	-0.193024245	-1.1823638680
## 545	10.6	32.2	-0.262714315	-0.2818276488
## 546	9.2	37.2	0.434186379	-0.5290336697
## 547	9.9	35.9	0.252992199	-0.4054306592
## 548	7.7	23.0	-1.545011590	-0.7938972636
## 549	12.6	26.5	-1.057181105	0.0713238098
## 550	10.7	38.8	0.657194601	-0.2641700758
## 551	10.5	38.9	0.671132615	-0.2994852217
## 552	10.5	30.0	-0.569350620	-0.2994852217
## 553	10.4	22.1	-1.670453715	-0.3171427946
## 554	9.7	30.5	-0.499660550	-0.4407458051
## 555	9.4	26.1	-1.112933161	-0.4937185239
## 556	13.4	41.1	0.977768920	0.2125843932
## 557	13.5	32.0	-0.290590342	0.2302419661
## 558	6.5	32.6	-0.206962259	-1.0057881388
## 559	12.1	29.9	-0.583288634	-0.0169640549
## 560	9.4	34.8	0.099674046	-0.4937185239
## 561	12.7	28.0	-0.848110897	0.0889813827

## 562	11.3	36.3	0.308744254	-0.1582246383
## 563	9.2	32.0	-0.290590342	-0.5290336697
## 564	15.7	39.2	0.712946656	0.6187085705
## 565	10.8	37.2	0.434186379	-0.2465125029
## 566	10.3	35.1	0.141488088	-0.3348003675
## 567	8.1	27.7	-0.889924939	-0.7232669719
## 568	14.5	32.7	-0.193024245	0.4068176954
## 569	9.5	27.1	-0.973553022	-0.4760609510
## 570	9.5	19.9	-1.977090020	-0.4760609510
## 571	7.7	32.0	-0.290590342	-0.7938972636
## 572	27.4	15.7	-2.562486603	2.6846446029
## 573	13.9	29.6	-0.625102675	0.3008722578
## 574	8.8	32.9	-0.165148217	-0.5996639614
## 575	19.6	34.3	0.029983977	1.3073539146
## 576	14.1	33.7	-0.053644107	0.3361874037
## 577	9.3	33.9	-0.025768079	-0.5113760968
## 578	13.6	38.5	0.615380559	0.2478995390
## 579	9.6	16.2	-2.492796534	-0.4584033780
## 580	11.7	27.9	-0.862048911	-0.0875943466
## 581	8.4	29.9	-0.583288634	-0.6702942531
## 582	11.2	36.5	0.336620282	-0.1758822112
## 583	9.6	34.5	0.057860004	-0.4584033780
## 584	10.6	36.8	0.378434323	-0.2818276488
## 585	8.1	35.2	0.155426101	-0.7232669719
## 586	9.6	38.4	0.601442545	-0.4584033780
## 587	7.8	41.5	1.033520975	-0.7762396907
## 588	8.8	43.2	1.270467211	-0.5996639614
## 589	10.0	21.7	-1.726205771	-0.3877730863
## 590	10.6	41.9	1.089273031	-0.2818276488
## 591	11.6	38.8	0.657194601	-0.1052519195
## 592	10.3	37.2	0.434186379	-0.3348003675
## 593	6.7	32.2	-0.262714315	-0.9704729929
## 594	14.5	30.0	-0.569350620	0.4068176954
## 595	12.8	23.3	-1.503197549	0.1066389556
## 596	8.6	29.9	-0.583288634	-0.6349791073
## 597	12.9	40.1	0.838388781	0.1242965285
## 598	11.3	25.5	-1.196561244	-0.1582246383
## 599	8.5	36.9	0.392372337	-0.6526366802
## 600	9.4	32.7	-0.193024245	-0.4937185239
## 601	5.0	18.3	-2.200098242	-1.2706517327
## 602	11.5	38.3	0.587504531	-0.1229094924
## 603	7.6	36.4	0.322682268	-0.8115548366
## 604	12.2	39.7	0.782636726	0.0006935181
## 605	10.1	36.0	0.266930212	-0.3701155134
## 606	14.1	32.7	-0.193024245	0.3361874037
## 607	11.5	34.6	0.071798018	-0.1229094924
## 608	11.2	40.7	0.922016864	-0.1758822112
## 609	12.9	44.4	1.437723377	0.1242965285
## 610	8.3	33.0	-0.151210204	-0.6879518261
## 611	7.3	38.1	0.559628504	-0.8645275553
## 612	9.5	33.8	-0.039706093	-0.4760609510
## 613	11.9	39.9	0.810512753	-0.0522792007
## 614	15.3	23.7	-1.447445493	0.5480782788
## 615	13.1	30.6	-0.485722536	0.1596116744

## 616	6.7	37.5	0.476000420	-0.9704729929
## 617	5.9	37.1	0.420248365	-1.1117335763
## 618	8.3	31.5	-0.360280412	-0.6879518261
## 619	8.2	22.5	-1.614701660	-0.7056093990
## 620	11.6	33.6	-0.067582120	-0.1052519195
## 621	3.8	23.4	-1.489259535	-1.4825426078
## 622	11.3	36.2	0.294806240	-0.1582246383
## 623	6.8	21.1	-1.809833854	-0.9528154200
## 624	10.1	35.6	0.211178157	-0.3701155134
## 625	12.8	37.0	0.406310351	0.1066389556
## 626	7.6	34.2	0.016045963	-0.8115548366
## 627	9.0	43.1	1.256529197	-0.5643488156
## 628	9.3	35.0	0.127550074	-0.5113760968
## 629	12.0	30.6	-0.485722536	-0.0346216278
## 630	5.5	26.2	-1.098995147	-1.1823638680
## 631	6.9	25.1	-1.252313299	-0.9351578470
## 632	14.2	34.4	0.043921991	0.3538449766
## 633	9.7	38.6	0.629318573	-0.4407458051
## 634	9.4	30.7	-0.471784523	-0.4937185239
## 635	14.5	35.2	0.155426101	0.4068176954
## 636	6.3	41.4	1.019582961	-1.0411032846
## 637	11.4	44.2	1.409847350	-0.1405670654
## 638	14.7	34.2	0.016045963	0.4421328412
## 639	8.8	36.7	0.364496310	-0.5996639614
## 640	8.2	39.3	0.726884670	-0.7056093990
## 641	3.4	29.2	-0.680854731	-1.5531728995
## 642	11.6	39.9	0.810512753	-0.1052519195
## 643	10.4	40.7	0.922016864	-0.3171427946
## 644	7.2	33.6	-0.067582120	-0.8821851283
## 645	11.6	27.0	-0.987491036	-0.1052519195
## 646	11.6	38.6	0.629318573	-0.1052519195
## 647	3.5	34.1	0.002107949	-1.5355153266
## 648	10.0	41.2	0.991706934	-0.3877730863
## 649	6.9	38.5	0.615380559	-0.9351578470
## 650	6.5	39.3	0.726884670	-1.0057881388
## 651	9.5	29.9	-0.583288634	-0.4760609510
## 652	11.1	29.9	-0.583288634	-0.1935397841
## 653	13.9	28.6	-0.764482814	0.3008722578
## 654	18.0	28.5	-0.778420828	1.0248327478
## 655	10.5	27.9	-0.862048911	-0.2994852217
## 656	8.4	44.9	1.507413447	-0.6702942531
## 657	11.1	36.0	0.266930212	-0.1935397841
## 658	5.3	31.9	-0.304528356	-1.2176790139
## 659	10.4	33.0	-0.151210204	-0.3171427946
## 660	15.2	41.1	0.977768920	0.5304207059
## 661	7.2	30.8	-0.457846509	-0.8821851283
## 662	11.5	32.8	-0.179086231	-0.1229094924
## 663	8.4	33.6	-0.067582120	-0.6702942531
## 664	11.7	36.3	0.308744254	-0.0875943466
## 665	9.6	38.4	0.601442545	-0.4584033780
## 666	7.7	37.1	0.420248365	-0.7938972636
## 667	5.9	26.7	-1.029305077	-1.1117335763
## 668	10.9	30.6	-0.485722536	-0.2288549300
## 669	11.8	32.0	-0.290590342	-0.0699367736

## 670	5.9	32.1	-0.276652328	-1.1117335763
## 671	12.0	39.7	0.782636726	-0.0346216278
## 672	11.4	28.7	-0.750544800	-0.1405670654
## 673	9.0	32.6	-0.206962259	-0.5643488156
## 674	7.8	43.2	1.270467211	-0.7762396907
## 675	8.8	48.1	1.953429891	-0.5996639614
## 676	3.8	21.3	-1.781957826	-1.4825426078
## 677	8.5	32.6	-0.206962259	-0.6526366802
## 678	7.7	40.7	0.922016864	-0.7938972636
## 679	11.1	38.3	0.587504531	-0.1935397841
## 680	6.9	34.2	0.016045963	-0.9351578470
## 681	13.4	44.4	1.437723377	0.2125843932
## 682	8.8	44.1	1.395909336	-0.5996639614
## 683	15.2	46.2	1.688607627	0.5304207059
## 684	9.3	33.8	-0.039706093	-0.5113760968
## 685	6.8	40.2	0.852326795	-0.9528154200
## 686	9.7	43.8	1.354095294	-0.4407458051
## 687	8.9	41.8	1.075335017	-0.5820063885
## 688	13.6	34.6	0.071798018	0.2478995390
## 689	5.9	39.2	0.712946656	-1.1117335763
## 690	11.7	35.2	0.155426101	-0.0875943466
## 691	15.5	43.0	1.242591183	0.5833934246
## 692	9.5	30.0	-0.569350620	-0.4760609510
## 693	8.9	44.2	1.409847350	-0.5820063885
## 694	8.2	42.8	1.214715155	-0.7056093990
## 695	10.3	40.3	0.866264809	-0.3348003675
## 696	7.7	39.7	0.782636726	-0.7938972636
## 697	15.2	40.6	0.908078850	0.5304207059
## 698	11.1	41.7	1.061397003	-0.1935397841
## 699	3.7	15.3	-2.618238658	-1.5002001807
## 700	6.0	32.8	-0.179086231	-1.0940760034
## 701	9.3	40.1	0.838388781	-0.5113760968
## 702	3.5	27.2	-0.959615008	-1.5355153266
## 703	12.3	43.9	1.368033308	0.0183510910
## 704	13.0	36.5	0.336620282	0.1419541015
## 705	7.8	42.0	1.103211045	-0.7762396907
## 706	11.0	43.5	1.312281253	-0.2111973571
## 707	5.6	42.3	1.145025086	-1.1647062951
## 708	10.6	47.2	1.827987766	-0.2818276488
## 709	11.2	42.3	1.145025086	-0.1758822112
## 710	11.7	45.9	1.646793585	-0.0875943466
## 711	7.0	31.0	-0.429970481	-0.9175002741
## 712	10.4	35.8	0.239054185	-0.3171427946
## 713	7.3	35.2	0.155426101	-0.8645275553
## 714	8.9	32.4	-0.234838287	-0.5820063885
## 715	13.8	35.0	0.127550074	0.2832146849
## 716	13.6	39.3	0.726884670	0.2478995390
## 717	10.6	43.4	1.298343239	-0.2818276488
## 718	12.5	39.0	0.685070628	0.0536662368
## 719	15.9	28.0	-0.848110897	0.6540237163
## 720	8.3	39.0	0.685070628	-0.6879518261
## 721	9.7	43.2	1.270467211	-0.4407458051
## 722	10.4	42.5	1.172901114	-0.3171427946
## 723	11.7	21.9	-1.698329743	-0.0875943466

## 724	8.7	41.3	1.005644947	-0.6173215344
## 725	9.2	40.0	0.824450767	-0.5290336697
## 726	8.2	44.2	1.409847350	-0.7056093990
## 727	8.9	40.7	0.922016864	-0.5820063885
## 728	12.9	45.1	1.535289474	0.1242965285
## 729	10.4	42.6	1.186839128	-0.3171427946
## 730	9.2	43.4	1.298343239	-0.5290336697
## 731	11.6	47.0	1.800111738	-0.1052519195
## 732	5.6	42.6	1.186839128	-1.1647062951
## 733	8.2	34.5	0.057860004	-0.7056093990
## 734	6.3	38.4	0.601442545	-1.0411032846
## 735	10.0	47.0	1.800111738	-0.3877730863
## 736	6.7	43.8	1.354095294	-0.9704729929
## 737	12.5	42.5	1.172901114	0.0536662368
## 738	6.6	43.5	1.312281253	-0.9881305658
## 739	15.3	46.0	1.660731599	0.5480782788
## 740	12.3	30.7	-0.471784523	0.0183510910
## 741	10.1	44.2	1.409847350	-0.3701155134
## 742	9.0	42.7	1.200777142	-0.5643488156
## 743	5.8	44.9	1.507413447	-1.1293911492
## 744	11.8	42.1	1.117149058	-0.0699367736
## 745	6.9	38.3	0.587504531	-0.9351578470
## 746	13.9	44.7	1.479537419	0.3008722578
## 747	18.3	48.6	2.023119960	1.0778054666
## 748	11.1	25.0	-1.266251313	-0.1935397841
## 749	6.3	41.1	0.977768920	-1.0411032846
## 750	5.7	48.0	1.939491877	-1.1470487222
## 751	12.7	32.5	-0.220900273	0.0889813827
## 752	9.1	44.2	1.409847350	-0.5466912427
## 753	13.6	32.2	-0.262714315	0.2478995390
## 754	9.5	42.5	1.172901114	-0.4760609510
## 755	7.7	31.4	-0.374218426	-0.7938972636
## 756	12.4	43.6	1.326219266	0.0360086639
## 757	15.2	38.0	0.545690490	0.5304207059
## 758	8.8	40.0	0.824450767	-0.5996639614
## 759	6.3	41.4	1.019582961	-1.0411032846
## 760	6.0	39.7	0.782636726	-1.0940760034
## 761	9.9	34.0	-0.011830065	-0.4054306592
## 762	12.2	41.5	1.033520975	0.0006935181
## 763	13.0	37.6	0.489938434	0.1419541015
## 764	11.0	32.4	-0.234838287	-0.2111973571
## 765	11.4	30.8	-0.457846509	-0.1405670654
## 766	9.5	36.0	0.266930212	-0.4760609510
## 767	6.4	26.5	-1.057181105	-1.0234457117
## 768	12.6	33.5	-0.081520134	0.0713238098
## 769	8.2	29.8	-0.597226647	-0.7056093990
## 770	5.9	33.4	-0.095458148	-1.1117335763
## 771	11.4	30.7	-0.471784523	-0.1405670654
## 772	13.7	28.2	-0.820234869	0.2655571120
## 773	7.1	33.5	-0.081520134	-0.8998427012
## 774	8.0	18.0	-2.241912284	-0.7409245449
## 775	6.4	26.5	-1.057181105	-1.0234457117
## 776	11.9	21.7	-1.726205771	-0.0522792007
## 777	13.5	24.9	-1.280189327	0.2302419661



## 778	7.4	38.9	0.671132615	-0.8468699824
## 779	10.8	26.1	-1.112933161	-0.2465125029
## 780	10.3	34.6	0.071798018	-0.3348003675
## 781	9.2	40.0	0.824450767	-0.5290336697
## 782	8.3	26.3	-1.085057133	-0.6879518261
## 783	5.7	39.1	0.699008642	-1.1470487222
## 784	6.5	40.4	0.880202823	-1.0057881388
## 785	4.0	14.4	-2.743680783	-1.4472274619
## 786	12.4	32.6	-0.206962259	0.0360086639
## 787	6.9	28.7	-0.750544800	-0.9351578470
## 788	11.5	38.5	0.615380559	-0.1229094924
## 789	14.6	30.9	-0.443908495	0.4244752683
## 790	3.8	27.3	-0.945676994	-1.4825426078
## 791	6.7	30.9	-0.443908495	-0.9704729929
## 792	6.4	32.2	-0.262714315	-1.0234457117
## 793	14.0	29.1	-0.694792744	0.3185298307
## 794	13.8	31.4	-0.374218426	0.2832146849
## 795	7.4	39.2	0.712946656	-0.8468699824
## 796	4.0	29.6	-0.625102675	-1.4472274619
## 797	6.2	29.2	-0.680854731	-1.0587608575
## 798	9.7	24.8	-1.294127341	-0.4407458051
## 799	9.8	27.9	-0.862048911	-0.4230882322
## 800	11.0	28.7	-0.750544800	-0.2111973571
## 801	6.9	18.5	-2.172222215	-0.9351578470
## 802	7.2	27.3	-0.945676994	-0.8821851283
## 803	10.7	31.0	-0.429970481	-0.2641700758
## 804	10.8	26.2	-1.098995147	-0.2465125029
## 805	14.2	30.6	-0.485722536	0.3538449766
## 806	10.0	31.3	-0.388156439	-0.3877730863
## 807	9.4	34.1	0.002107949	-0.4937185239
## 808	9.9	35.2	0.155426101	-0.4054306592
## 809	18.6	32.6	-0.206962259	1.1307781854
## 810	16.6	38.7	0.643256587	0.7776267268
## 811	13.3	39.5	0.754760698	0.1949268203
## 812	7.3	36.8	0.378434323	-0.8645275553
## 813	10.7	37.7	0.503876448	-0.2641700758
## 814	16.3	41.6	1.047458989	0.7246540081
## 815	16.8	42.1	1.117149058	0.8129418727
## 816	30.7	38.6	0.629318573	3.2673445095
## 817	6.5	27.9	-0.862048911	-1.0057881388
## 818	12.8	37.3	0.448124393	0.1066389556
## 819	15.3	32.5	-0.220900273	0.5480782788
## 820	11.2	34.7	0.085736032	-0.1758822112
## 821	17.2	44.0	1.381971322	0.8835721644
## 822	25.5	36.4	0.322682268	2.3491507173
## 823	12.9	44.6	1.465599405	0.1242965285
## 824	7.7	41.6	1.047458989	-0.7938972636
## 825	17.7	42.7	1.200777142	0.9718600290
## 826	19.0	46.0	1.660731599	1.2014084771
## 827	15.4	32.4	-0.234838287	0.5657358517
## 828	11.0	29.9	-0.583288634	-0.2111973571
## 829	21.3	42.0	1.103211045	1.6075326544
## 830	14.2	40.1	0.838388781	0.3538449766
## 831	20.8	38.4	0.601442545	1.5192447898

## 832	14.9	32.1	-0.276652328	0.4774479871
## 833	10.2	34.8	0.099674046	-0.3524579405
## 834	36.3	34.2	0.016045963	4.2561685934
## 835	15.8	38.8	0.657194601	0.6363661434
## 836	15.5	42.2	1.131087072	0.5833934246
## 837	18.9	41.6	1.047458989	1.1837509041
## 838	12.1	34.7	0.085736032	-0.0169640549
## 839	16.0	42.0	1.103211045	0.6716812893
## 840	27.0	43.7	1.340157280	2.6140143112
## 841	28.3	45.5	1.591041530	2.8435627592
## 842	12.3	20.0	-1.963152007	0.0183510910
## 843	17.3	38.3	0.587504531	0.9012297373
## 844	24.9	35.8	0.239054185	2.2432052797
## 845	11.2	30.6	-0.485722536	-0.1758822112
## 846	11.3	46.4	1.716483655	-0.1582246383
## 847	15.1	36.7	0.364496310	0.5127631329
## 848	16.1	48.7	2.037057974	0.6893388622
## 849	13.9	39.4	0.740822684	0.3008722578
## 850	18.8	41.7	1.061397003	1.1660933312
## 851	14.1	40.2	0.852326795	0.3361874037
## 852	13.2	36.8	0.378434323	0.1772692473
## 853	15.0	42.8	1.214715155	0.4951055600
## 854	10.6	30.3	-0.527536578	-0.2818276488
## 855	28.7	34.7	0.085736032	2.9141930510
## 856	15.6	40.3	0.866264809	0.6010509976
## 857	19.2	40.4	0.880202823	1.2367236229
## 858	14.5	35.6	0.211178157	0.4068176954
## 859	13.4	42.1	1.117149058	0.2125843932
## 860	12.9	41.5	1.033520975	0.1242965285
## 861	28.2	42.6	1.186839128	2.8259051863
## 862	11.3	26.8	-1.015367063	-0.1582246383
## 863	15.5	30.3	-0.527536578	0.5833934246
## 864	20.9	34.8	0.099674046	1.5369023627
## 865	10.9	28.7	-0.750544800	-0.2288549300
## 866	27.2	32.4	-0.234838287	2.6493294571
## 867	29.9	37.9	0.531752476	3.1260839261
## 868	12.9	40.2	0.852326795	0.1242965285
## 869	19.5	40.6	0.908078850	1.2896963417
## 870	18.3	42.9	1.228653169	1.0778054666
## 871	33.4	37.2	0.434186379	3.7440989785
## 872	26.0	38.6	0.629318573	2.4374385819
## 873	25.7	37.5	0.476000420	2.3844658632
## 874	22.0	40.2	0.852326795	1.7311356649
## 875	19.8	43.8	1.354095294	1.3426690605
## 876	12.3	44.5	1.451661391	0.0183510910
## 877	12.8	43.7	1.340157280	0.1066389556
## 878	7.9	41.2	0.991706934	-0.7585821178
## 879	14.3	30.1	-0.555412606	0.3715025495
## 880	37.1	42.7	1.200777142	4.3974291768
## 881	12.5	41.3	1.005644947	0.0536662368
## 882	14.7	27.8	-0.875986925	0.4421328412
## 883	25.2	32.7	-0.193024245	2.2961779985
## 884	14.4	42.7	1.200777142	0.3891601224
## 885	7.0	37.7	0.503876448	-0.9175002741

## 886	29.6	39.3	0.726884670	3.0731112073
## 887	13.6	37.7	0.503876448	0.2478995390
## 888	10.9	34.3	0.029983977	-0.2288549300
## 889	23.2	43.8	1.354095294	1.9430265400
## 890	13.5	38.4	0.601442545	0.2302419661
## 891	16.7	37.0	0.406310351	0.7952842998
## 892	19.2	40.2	0.852326795	1.2367236229
## 893	18.4	40.8	0.935954878	1.0954630395
## 894	18.8	37.1	0.420248365	1.1660933312
## 895	13.6	43.2	1.270467211	0.2478995390
## 896	10.4	38.7	0.643256587	-0.3171427946
## 897	16.6	42.5	1.172901114	0.7776267268
## 898	16.7	42.8	1.214715155	0.7952842998
## 899	4.3	21.3	-1.781957826	-1.3942547431
## 900	14.8	50.0	2.218252154	0.4597904142
## 901	32.8	37.0	0.406310351	3.6381535409
## 902	10.9	43.5	1.312281253	-0.2288549300
## 903	23.6	34.8	0.099674046	2.0136568317
## 904	20.5	38.5	0.615380559	1.4662720710
## 905	19.9	42.0	1.103211045	1.3603266334
## 906	18.4	37.6	0.489938434	1.0954630395
## 907	20.2	43.6	1.326219266	1.4132993522
## 908	16.9	29.5	-0.639040689	0.8305994456
## 909	21.3	36.3	0.308744254	1.6075326544
## 910	8.4	30.5	-0.499660550	-0.6702942531
## 911	8.5	31.0	-0.429970481	-0.6526366802
## 912	14.6	44.7	1.479537419	0.4244752683
## 913	8.3	35.1	0.141488088	-0.6879518261
## 914	19.7	39.5	0.754760698	1.3250114876
## 915	12.1	38.8	0.657194601	-0.0169640549
## 916	10.0	31.3	-0.388156439	-0.3877730863
## 917	15.2	47.2	1.827987766	0.5304207059
## 918	14.3	45.9	1.646793585	0.3715025495
## 919	13.3	28.1	-0.834172883	0.1949268203
## 920	13.2	42.0	1.103211045	0.1772692473
## 921	22.8	37.4	0.462062407	1.8723962483
## 922	14.7	46.1	1.674669613	0.4421328412
## 923	21.5	37.3	0.448124393	1.6428478002
## 924	35.9	37.8	0.517814462	4.1855383017
## 925	10.5	27.5	-0.917800966	-0.2994852217
## 926	16.5	41.2	0.991706934	0.7599691539
## 927	12.6	42.9	1.228653169	0.0713238098
## 928	9.4	32.4	-0.234838287	-0.4937185239
## 929	14.4	43.7	1.340157280	0.3891601224
## 930	18.3	38.9	0.671132615	1.0778054666
## 931	14.6	38.1	0.559628504	0.4244752683
## 932	22.7	41.7	1.061397003	1.8547386754
## 933	12.6	29.5	-0.639040689	0.0713238098
## 934	17.2	33.4	-0.095458148	0.8835721644
## 935	13.0	33.8	-0.039706093	0.1419541015
## 936	18.8	43.2	1.270467211	1.1660933312
## 937	16.2	42.5	1.172901114	0.7069964351
## 938	25.4	41.4	1.019582961	2.3314931444
## 939	27.0	41.4	1.019582961	2.6140143112

## 940	19.4	42.8	1.214715155	1.2720387688
## 941	13.1	27.3	-0.945676994	0.1596116744
## 942	12.1	42.5	1.172901114	-0.0169640549
## 943	21.6	39.8	0.796574739	1.6605053732
## 944	23.7	42.9	1.228653169	2.0313144046
## 945	16.3	43.5	1.312281253	0.7246540081
## 946	16.6	42.8	1.214715155	0.7776267268
## 947	15.1	40.4	0.880202823	0.5127631329
## 948	20.6	43.3	1.284405225	1.4839296439
## 949	12.4	31.2	-0.402094453	0.0360086639
## 950	17.4	41.7	1.061397003	0.9188873102
## 951	12.0	30.2	-0.541474592	-0.0346216278
## 952	11.0	40.2	0.852326795	-0.2111973571
## 953	22.0	41.8	1.075335017	1.7311356649
## 954	19.7	27.3	-0.945676994	1.3250114876
## 955	11.5	39.0	0.685070628	-0.1229094924
## 956	32.5	39.0	0.685070628	3.5851808222
## 957	24.0	44.2	1.409847350	2.0842871234
## 958	20.8	35.0	0.127550074	1.5192447898
## 959	20.6	22.9	-1.558949604	1.4839296439
## 960	19.0	33.9	-0.025768079	1.2014084771
## 961	13.7	34.5	0.057860004	0.2655571120
## 962	12.1	40.2	0.852326795	-0.0169640549
## 963	16.0	37.5	0.476000420	0.6716812893
## 964	18.5	40.6	0.908078850	1.1131206124
## 965	15.4	46.4	1.716483655	0.5657358517
## 966	18.5	37.3	0.448124393	1.1131206124
## 967	9.5	34.8	0.099674046	-0.4760609510
## 968	19.9	40.0	0.824450767	1.3603266334
## 969	10.9	42.9	1.228653169	-0.2288549300
## 970	15.7	38.0	0.545690490	0.6187085705
## 971	24.1	40.9	0.949892892	2.1019446963
## 972	14.6	42.0	1.103211045	0.4244752683
## 973	17.3	50.0	2.218252154	0.9012297373
## 974	8.5	26.3	-1.085057133	-0.6526366802
## 975	18.4	37.8	0.517814462	1.0954630395
## 976	15.0	38.6	0.629318573	0.4951055600
## 977	20.4	47.1	1.814049752	1.4486144980
## 978	11.7	41.9	1.089273031	-0.0875943466
## 979	11.6	37.4	0.462062407	-0.1052519195
## 980	19.4	42.8	1.214715155	1.2720387688
## 981	18.6	41.6	1.047458989	1.1307781854
## 982	15.4	38.8	0.657194601	0.5657358517
## 983	17.3	43.4	1.298343239	0.9012297373
## 984	12.3	35.7	0.225116171	0.0183510910
## 985	23.4	43.8	1.354095294	1.9783416858
## 986	4.9	24.3	-1.363817410	-1.2883093056
## 987	9.1	29.9	-0.583288634	-0.5466912427
## 988	9.6	29.9	-0.583288634	-0.4584033780
## 989	6.2	24.3	-1.363817410	-1.0587608575
## 990	8.4	25.2	-1.238375285	-0.6702942531
## 991	6.8	28.0	-0.848110897	-0.9528154200
## 992	14.1	29.5	-0.639040689	0.3361874037
## 993	6.2	23.6	-1.461383507	-1.0587608575

## 994	5.6	19.6	-2.018904062	-1.1647062951
## 995	4.6	18.4	-2.186160228	-1.3412820244
## 996	4.5	19.5	-2.032842076	-1.3589395973
## 997	5.8	27.9	-0.862048911	-1.1293911492
## 998	15.8	22.4	-1.628639674	0.6363661434
## 999	7.8	28.1	-0.834172883	-0.7762396907
## 1000	11.2	41.9	1.089273031	-0.1758822112
## 1001	3.9	23.8	-1.433507480	-1.4648850348
## 1002	6.1	26.2	-1.098995147	-1.0764184305
## 1003	3.4	30.3	-0.527536578	-1.5531728995
## 1004	13.2	40.7	0.922016864	0.1772692473
## 1005	3.4	29.9	-0.583288634	-1.5531728995
## 1006	7.3	37.7	0.503876448	-0.8645275553
## 1007	5.8	31.4	-0.374218426	-1.1293911492
## 1008	12.8	39.4	0.740822684	0.1066389556
## 1009	4.8	24.3	-1.363817410	-1.3059668785
## 1010	9.0	43.8	1.354095294	-0.5643488156
## 1011	5.8	26.6	-1.043243091	-1.1293911492
## 1012	3.5	14.0	-2.799432839	-1.5355153266
## 1013	6.6	28.6	-0.764482814	-0.9881305658
## 1014	4.7	13.3	-2.896998936	-1.3236244514
## 1015	6.9	25.7	-1.168685216	-0.9351578470
## 1016	4.4	29.6	-0.625102675	-1.3765971702
## 1017	5.4	30.0	-0.569350620	-1.2000214409
## 1018	20.6	40.3	0.866264809	1.4839296439
## 1019	6.9	25.6	-1.182623230	-0.9351578470
## 1020	9.7	36.4	0.322682268	-0.4407458051
## 1021	10.5	32.5	-0.220900273	-0.2994852217
## 1022	7.7	31.6	-0.346342398	-0.7938972636
## 1023	18.3	29.9	-0.583288634	1.0778054666
## 1024	9.9	36.5	0.336620282	-0.4054306592
## 1025	11.9	37.2	0.434186379	-0.0522792007
## 1026	7.4	22.3	-1.642577688	-0.8468699824
## 1027	8.6	37.2	0.434186379	-0.6349791073
## 1028	8.1	32.3	-0.248776301	-0.7232669719
## 1029	9.3	32.9	-0.165148217	-0.5113760968
## 1030	9.2	33.5	-0.081520134	-0.5290336697
## 1031	7.9	33.2	-0.123334176	-0.7585821178
## 1032	10.6	43.3	1.284405225	-0.2818276488
## 1033	10.3	33.6	-0.067582120	-0.3348003675
## 1034	13.5	40.4	0.880202823	0.2302419661
## 1035	7.4	30.1	-0.555412606	-0.8468699824
## 1036	13.1	40.2	0.852326795	0.1596116744
## 1037	10.0	32.6	-0.206962259	-0.3877730863
## 1038	12.4	39.0	0.685070628	0.0360086639
## 1039	6.0	30.6	-0.485722536	-1.0940760034
## 1040	10.4	39.2	0.712946656	-0.3171427946
## 1041	8.7	44.3	1.423785364	-0.6173215344
## 1042	8.8	37.8	0.517814462	-0.5996639614
## 1043	12.1	33.5	-0.081520134	-0.0169640549
## 1044	8.9	32.0	-0.290590342	-0.5820063885
## 1045	13.6	42.3	1.145025086	0.2478995390
## 1046	10.0	43.4	1.298343239	-0.3877730863
## 1047	5.2	37.8	0.517814462	-1.2353365868

## 1048	11.6	34.7	0.085736032	-0.1052519195
## 1049	6.0	31.8	-0.318466370	-1.0940760034
## 1050	13.1	28.9	-0.722668772	0.1596116744
## 1051	11.6	41.3	1.005644947	-0.1052519195
## 1052	12.8	36.4	0.322682268	0.1066389556
## 1053	10.5	33.2	-0.123334176	-0.2994852217
## 1054	8.6	29.5	-0.639040689	-0.6349791073
## 1055	14.3	37.9	0.531752476	0.3715025495
## 1056	12.0	35.0	0.127550074	-0.0346216278
## 1057	18.0	38.2	0.573566518	1.0248327478
## 1058	5.8	27.0	-0.987491036	-1.1293911492
## 1059	12.4	33.8	-0.039706093	0.0360086639
## 1060	11.6	33.3	-0.109396162	-0.1052519195
## 1061	9.2	33.8	-0.039706093	-0.5290336697
## 1062	8.0	28.0	-0.848110897	-0.7409245449
## 1063	7.0	24.5	-1.335941382	-0.9175002741
## 1064	16.4	31.9	-0.304528356	0.7423115810
## 1065	14.0	39.6	0.768698712	0.3185298307
## 1066	13.4	37.6	0.489938434	0.2125843932
## 1067	6.0	24.4	-1.349879396	-1.0940760034
## 1068	14.2	40.4	0.880202823	0.3538449766
## 1069	12.5	38.5	0.615380559	0.0536662368
## 1070	10.9	33.7	-0.053644107	-0.2288549300
## 1071	10.0	42.2	1.131087072	-0.3877730863
## 1072	13.7	21.7	-1.726205771	0.2655571120
## 1073	11.0	39.6	0.768698712	-0.2111973571
## 1074	11.7	37.8	0.517814462	-0.0875943466
## 1075	11.5	43.8	1.354095294	-0.1229094924
## 1076	12.6	31.5	-0.360280412	0.0713238098
## 1077	12.6	33.0	-0.151210204	0.0713238098
## 1078	10.2	22.0	-1.684391729	-0.3524579405
## 1079	11.5	41.4	1.019582961	-0.1229094924
## 1080	10.0	24.4	-1.349879396	-0.3877730863
## 1081	18.7	42.6	1.186839128	1.1484357583
## 1082	7.4	35.7	0.225116171	-0.8468699824
## 1083	4.5	21.8	-1.712267757	-1.3589395973
## 1084	9.8	37.1	0.420248365	-0.4230882322
## 1085	4.0	25.9	-1.140809188	-1.4472274619
## 1086	16.0	38.5	0.615380559	0.6716812893
## 1087	10.9	34.3	0.029983977	-0.2288549300
## 1088	9.4	29.7	-0.611164661	-0.4937185239
## 1089	10.5	36.1	0.280868226	-0.2994852217
## 1090	8.9	31.5	-0.360280412	-0.5820063885
## 1091	11.4	33.5	-0.081520134	-0.1405670654
## 1092	12.7	36.2	0.294806240	0.0889813827
## 1093	10.5	42.8	1.214715155	-0.2994852217
## 1094	8.1	29.0	-0.708730758	-0.7232669719
## 1095	11.3	42.0	1.103211045	-0.1582246383
## 1096	7.6	36.1	0.280868226	-0.8115548366
## 1097	12.6	39.9	0.810512753	0.0713238098
## 1098	11.8	43.1	1.256529197	-0.0699367736
## 1099	14.6	34.5	0.057860004	0.4244752683
## 1100	13.8	40.3	0.866264809	0.2832146849
## 1101	6.9	18.8	-2.130408173	-0.9351578470

## 1102	13.7	35.4	0.183302129	0.2655571120
## 1103	14.8	39.0	0.685070628	0.4597904142
## 1104	8.9	40.7	0.922016864	-0.5820063885
## 1105	16.5	44.3	1.423785364	0.7599691539
## 1106	12.5	37.6	0.489938434	0.0536662368
## 1107	9.2	33.9	-0.025768079	-0.5290336697
## 1108	6.0	28.6	-0.764482814	-1.0940760034
## 1109	8.5	39.4	0.740822684	-0.6526366802
## 1110	14.3	40.7	0.922016864	0.3715025495
## 1111	12.9	33.6	-0.067582120	0.1242965285
## 1112	10.1	34.4	0.043921991	-0.3701155134
## 1113	12.1	38.2	0.573566518	-0.0169640549
## 1114	10.2	41.5	1.033520975	-0.3524579405
## 1115	14.1	44.3	1.423785364	0.3361874037
## 1116	11.3	36.3	0.308744254	-0.1582246383
## 1117	10.9	41.7	1.061397003	-0.2288549300
## 1118	12.2	31.9	-0.304528356	0.0006935181
## 1119	7.3	14.9	-2.673990714	-0.8645275553
## 1120	19.4	30.0	-0.569350620	1.2720387688
## 1121	13.7	36.8	0.378434323	0.2655571120
## 1122	8.5	37.7	0.503876448	-0.6526366802
## 1123	5.2	27.9	-0.862048911	-1.2353365868
## 1124	8.6	32.0	-0.290590342	-0.6349791073
## 1125	13.3	28.1	-0.834172883	0.1949268203
## 1126	9.1	31.1	-0.416032467	-0.5466912427
## 1127	8.4	43.5	1.312281253	-0.6702942531
## 1128	7.3	26.7	-1.029305077	-0.8645275553
## 1129	6.4	37.6	0.489938434	-1.0234457117
## 1130	7.2	34.2	0.016045963	-0.8821851283
## 1131	2.4	19.0	-2.102532145	-1.7297486287
## 1132	12.2	33.2	-0.123334176	0.0006935181
## 1133	8.3	35.9	0.252992199	-0.6879518261
## 1134	3.4	33.9	-0.025768079	-1.5531728995
## 1135	7.0	25.4	-1.210499258	-0.9175002741
## 1136	11.7	35.0	0.127550074	-0.0875943466
## 1137	11.7	35.4	0.183302129	-0.0875943466
## 1138	7.3	30.3	-0.527536578	-0.8645275553
## 1139	4.8	20.6	-1.879523923	-1.3059668785
## 1140	4.5	34.7	0.085736032	-1.3589395973
## 1141	4.3	29.6	-0.625102675	-1.3942547431
## 1142	8.8	38.2	0.573566518	-0.5996639614
## 1143	7.8	34.0	-0.011830065	-0.7762396907
## 1144	7.3	37.3	0.448124393	-0.8645275553
## 1145	7.0	32.9	-0.165148217	-0.9175002741
## 1146	7.5	16.7	-2.423106464	-0.8292124095
## 1147	7.7	33.6	-0.067582120	-0.7938972636
## 1148	6.7	30.8	-0.457846509	-0.9704729929
## 1149	4.6	33.8	-0.039706093	-1.3412820244
## 1150	9.3	30.2	-0.541474592	-0.5113760968
## 1151	9.8	40.2	0.852326795	-0.4230882322
## 1152	8.1	25.8	-1.154747202	-0.7232669719
## 1153	11.4	36.0	0.266930212	-0.1405670654
## 1154	6.6	31.5	-0.360280412	-0.9881305658
## 1155	4.9	34.9	0.113612060	-1.2883093056

## 1156	9.4	33.1	-0.137272190	-0.4937185239
## 1157	5.7	36.4	0.322682268	-1.1470487222
## 1158	16.5	37.9	0.531752476	0.7599691539
## 1159	8.9	38.1	0.559628504	-0.5820063885
## 1160	5.8	36.3	0.308744254	-1.1293911492
## 1161	9.2	38.1	0.559628504	-0.5290336697
## 1162	7.5	38.4	0.601442545	-0.8292124095
## 1163	8.6	31.6	-0.346342398	-0.6349791073
## 1164	6.9	26.7	-1.029305077	-0.9351578470
## 1165	10.8	32.5	-0.220900273	-0.2465125029
## 1166	5.6	19.8	-1.991028034	-1.1647062951
## 1167	5.8	29.3	-0.666916717	-1.1293911492
## 1168	5.5	33.8	-0.039706093	-1.1823638680
## 1169	8.8	39.8	0.796574739	-0.5996639614
## 1170	7.7	32.3	-0.248776301	-0.7938972636
## 1171	6.1	32.6	-0.206962259	-1.0764184305
## 1172	11.0	20.9	-1.837709882	-0.2111973571
## 1173	8.3	38.4	0.601442545	-0.6879518261
## 1174	6.3	36.3	0.308744254	-1.0411032846
## 1175	7.7	31.0	-0.429970481	-0.7938972636
## 1176	7.2	33.5	-0.081520134	-0.8821851283
## 1177	5.5	34.9	0.113612060	-1.1823638680
## 1178	9.1	28.0	-0.848110897	-0.5466912427
## 1179	4.3	22.6	-1.600763646	-1.3942547431
## 1180	4.9	27.8	-0.875986925	-1.2883093056
## 1181	6.9	39.2	0.712946656	-0.9351578470
## 1182	7.3	27.9	-0.862048911	-0.8645275553
## 1183	8.0	34.3	0.029983977	-0.7409245449
## 1184	8.8	33.5	-0.081520134	-0.5996639614
## 1185	9.0	36.4	0.322682268	-0.5643488156
## 1186	4.3	34.5	0.057860004	-1.3942547431
## 1187	11.3	37.2	0.434186379	-0.1582246383
## 1188	5.2	35.8	0.239054185	-1.2353365868
## 1189	3.6	21.1	-1.809833854	-1.5178577536
## 1190	6.6	27.4	-0.931738980	-0.9881305658
## 1191	3.7	29.1	-0.694792744	-1.5002001807
## 1192	8.0	35.5	0.197240143	-0.7409245449
## 1193	11.1	35.8	0.239054185	-0.1935397841
## 1194	6.6	38.1	0.559628504	-0.9881305658
## 1195	12.1	46.4	1.716483655	-0.0169640549
## 1196	15.8	40.9	0.949892892	0.6363661434
## 1197	18.3	42.8	1.214715155	1.0778054666
## 1198	11.2	46.2	1.688607627	-0.1758822112
## 1199	14.3	40.8	0.935954878	0.3715025495
## 1200	17.0	46.5	1.730421669	0.8482570185
## 1201	9.3	21.2	-1.795895840	-0.5113760968
## 1202	14.1	37.0	0.406310351	0.3361874037
## 1203	16.2	36.0	0.266930212	0.7069964351
## 1204	10.4	43.2	1.270467211	-0.3171427946
## 1205	9.6	37.2	0.434186379	-0.4584033780
## 1206	12.8	37.7	0.503876448	0.1066389556
## 1207	10.0	32.1	-0.276652328	-0.3877730863
## 1208	13.9	45.2	1.549227488	0.3008722578
## 1209	6.8	33.1	-0.137272190	-0.9528154200



## 1210	18.4	40.2	0.852326795	1.0954630395
## 1211	7.5	30.4	-0.513598564	-0.8292124095
## 1212	6.7	28.8	-0.736606786	-0.9704729929
## 1213	7.5	39.4	0.740822684	-0.8292124095
## 1214	8.5	30.7	-0.471784523	-0.6526366802
## 1215	9.2	38.8	0.657194601	-0.5290336697
## 1216	17.9	39.3	0.726884670	1.0071751749
## 1217	13.3	44.1	1.395909336	0.1949268203
## 1218	15.8	42.1	1.117149058	0.6363661434
## 1219	15.6	40.4	0.880202823	0.6010509976
## 1220	13.2	44.5	1.451661391	0.1772692473
## 1221	20.3	37.4	0.462062407	1.4309569251
## 1222	8.9	32.8	-0.179086231	-0.5820063885
## 1223	10.1	39.3	0.726884670	-0.3701155134
## 1224	12.5	28.2	-0.820234869	0.0536662368
## 1225	15.0	40.0	0.824450767	0.4951055600
## 1226	14.8	45.8	1.632855572	0.4597904142
## 1227	15.1	42.5	1.172901114	0.5127631329
## 1228	17.6	43.4	1.298343239	0.9542024561
## 1229	18.7	39.6	0.768698712	1.1484357583
## 1230	15.4	42.2	1.131087072	0.5657358517
## 1231	12.9	28.4	-0.792358842	0.1242965285
## 1232	12.2	34.3	0.029983977	0.0006935181
## 1233	8.2	31.8	-0.318466370	-0.7056093990
## 1234	9.3	30.3	-0.527536578	-0.5113760968
## 1235	15.8	39.2	0.712946656	0.6363661434
## 1236	8.8	43.2	1.270467211	-0.5996639614
## 1237	13.7	37.0	0.406310351	0.2655571120
## 1238	7.5	45.9	1.646793585	-0.8292124095
## 1239	10.7	42.2	1.131087072	-0.2641700758
## 1240	13.0	46.0	1.660731599	0.1419541015
## 1241	13.6	38.7	0.643256587	0.2478995390
## 1242	14.8	40.6	0.908078850	0.4597904142
## 1243	12.9	44.4	1.437723377	0.1242965285
## 1244	11.4	34.4	0.043921991	-0.1405670654
## 1245	12.6	38.2	0.573566518	0.0713238098
## 1246	13.3	43.1	1.256529197	0.1949268203
## 1247	25.6	39.6	0.768698712	2.3668082902
## 1248	8.8	42.3	1.145025086	-0.5996639614
## 1249	10.1	48.3	1.981305918	-0.3701155134
## 1250	13.3	44.8	1.493475433	0.1949268203
## 1251	18.6	40.1	0.838388781	1.1307781854
## 1252	22.4	44.3	1.423785364	1.8017659566
## 1253	10.6	34.4	0.043921991	-0.2818276488
## 1254	20.8	40.2	0.852326795	1.5192447898
## 1255	3.5	43.9	1.368033308	-1.5355153266
## 1256	21.7	44.6	1.465599405	1.6781629461
## 1257	21.8	41.3	1.005644947	1.6958205190
## 1258	6.2	44.7	1.479537419	-1.0587608575
## 1259	12.8	34.5	0.057860004	0.1066389556
## 1260	12.3	29.9	-0.583288634	0.0183510910
## 1261	9.8	45.1	1.535289474	-0.4230882322
## 1262	5.0	21.8	-1.712267757	-1.2706517327
## 1263	12.5	37.1	0.420248365	0.0536662368

## 1264	12.3	27.6	-0.903862953	0.0183510910
## 1265	13.1	35.4	0.183302129	0.1596116744
## 1266	9.6	46.0	1.660731599	-0.4584033780
## 1267	13.4	41.3	1.005644947	0.2125843932
## 1268	18.4	42.0	1.103211045	1.0954630395
## 1269	4.7	25.1	-1.252313299	-1.3236244514
## 1270	12.8	40.0	0.824450767	0.1066389556
## 1271	12.1	37.7	0.503876448	-0.0169640549
## 1272	7.4	21.2	-1.795895840	-0.8468699824
## 1273	11.8	39.4	0.740822684	-0.0699367736
## 1274	14.8	42.1	1.117149058	0.4597904142
## 1275	16.5	42.5	1.172901114	0.7599691539
## 1276	11.7	40.2	0.852326795	-0.0875943466
## 1277	8.7	33.1	-0.137272190	-0.6173215344
## 1278	12.9	34.0	-0.011830065	0.1242965285
## 1279	17.0	39.9	0.810512753	0.8482570185
## 1280	10.8	41.9	1.089273031	-0.2465125029
## 1281	8.8	38.4	0.601442545	-0.5996639614
## 1282	16.1	38.7	0.643256587	0.6893388622
## 1283	15.8	37.5	0.476000420	0.6363661434
## 1284	12.5	38.4	0.601442545	0.0536662368
## 1285	20.7	44.2	1.409847350	1.5015872168
## 1286	21.3	23.6	-1.461383507	1.6075326544
## 1287	27.2	34.6	0.071798018	2.6493294571
## 1288	15.1	32.6	-0.206962259	0.5127631329
## 1289	24.2	40.7	0.922016864	2.1196022693
## 1290	20.8	31.3	-0.388156439	1.5192447898
## 1291	32.6	24.7	-1.308065355	3.6028383951
## 1292	20.5	37.1	0.420248365	1.4662720710
## 1293	23.1	37.0	0.406310351	1.9253689671
## 1294	14.6	36.4	0.322682268	0.4244752683
## 1295	22.0	33.9	-0.025768079	1.7311356649
## 1296	30.7	24.5	-1.335941382	3.2673445095
## 1297	23.3	33.2	-0.123334176	1.9606841129
## 1298	20.0	37.3	0.448124393	1.3779842063
## 1299	7.2	29.7	-0.611164661	-0.8821851283
## 1300	21.2	26.6	-1.043243091	1.5898750815
## 1301	13.2	38.9	0.671132615	0.1772692473
## 1302	21.0	27.6	-0.903862953	1.5545599356
## 1303	16.5	27.2	-0.959615008	0.7599691539
## 1304	17.4	29.4	-0.652978703	0.9188873102
## 1305	19.9	24.8	-1.294127341	1.3603266334
## 1306	39.9	41.2	0.991706934	4.8918412187
## 1307	15.6	30.2	-0.541474592	0.6010509976
## 1308	11.7	31.5	-0.360280412	-0.0875943466
## 1309	18.7	37.2	0.434186379	1.1484357583
## 1310	27.4	35.8	0.239054185	2.6846446029
## 1311	18.6	30.5	-0.499660550	1.1307781854
## 1312	19.1	37.5	0.476000420	1.2190660500
## 1313	11.9	18.8	-2.130408173	-0.0522792007
## 1314	11.4	23.5	-1.475321521	-0.1405670654
## 1315	19.2	28.8	-0.736606786	1.2367236229
## 1316	18.9	37.3	0.448124393	1.1837509041
## 1317	20.3	36.6	0.350558296	1.4309569251

## 1318	15.3	25.0	-1.266251313	0.5480782788
## 1319	36.0	36.5	0.336620282	4.2031958746
## 1320	20.5	37.4	0.462062407	1.4662720710
## 1321	18.4	31.5	-0.360280412	1.0954630395
## 1322	9.3	16.6	-2.437044478	-0.5113760968
## 1323	21.2	39.7	0.782636726	1.5898750815
## 1324	14.9	40.1	0.838388781	0.4774479871
## 1325	16.4	35.8	0.239054185	0.7423115810
## 1326	25.4	34.3	0.029983977	2.3314931444
## 1327	19.8	34.0	-0.011830065	1.3426690605
## 1328	17.5	30.5	-0.499660550	0.9365448832
## 1329	18.3	20.4	-1.907399951	1.0778054666
## 1330	17.9	37.8	0.517814462	1.0071751749
## 1331	15.7	29.9	-0.583288634	0.6187085705
## 1332	14.6	40.1	0.838388781	0.4244752683
## 1333	24.9	35.6	0.211178157	2.2432052797
## 1334	12.9	30.3	-0.527536578	0.1242965285
## 1335	16.3	33.7	-0.053644107	0.7246540081
## 1336	28.2	30.2	-0.541474592	2.8259051863
## 1337	6.4	26.3	-1.085057133	-1.0234457117
## 1338	19.5	35.5	0.197240143	1.2896963417
## 1339	20.0	33.2	-0.123334176	1.3779842063
## 1340	16.9	42.0	1.103211045	0.8305994456
## 1341	14.2	34.1	0.002107949	0.3538449766
## 1342	29.7	29.5	-0.639040689	3.0907687802
## 1343	19.1	31.6	-0.346342398	1.2190660500
## 1344	13.3	32.6	-0.206962259	0.1949268203
## 1345	16.3	35.9	0.252992199	0.7246540081
## 1346	12.0	41.0	0.963830906	-0.0346216278
## 1347	23.2	31.1	-0.416032467	1.9430265400
## 1348	14.1	31.6	-0.346342398	0.3361874037
## 1349	18.8	45.8	1.632855572	1.1660933312
## 1350	19.4	31.2	-0.402094453	1.2720387688
## 1351	29.1	30.5	-0.499660550	2.9848233427
## 1352	21.5	37.7	0.503876448	1.6428478002
## 1353	20.1	36.8	0.378434323	1.3956417793
## 1354	26.1	32.5	-0.220900273	2.4550961549
## 1355	17.3	38.5	0.615380559	0.9012297373
## 1356	31.2	37.2	0.434186379	3.3556323741
## 1357	8.7	29.2	-0.680854731	-0.6173215344
## 1358	22.2	35.8	0.239054185	1.7664508107
## 1359	19.9	25.9	-1.140809188	1.3603266334
## 1360	6.5	28.8	-0.736606786	-1.0057881388
## 1361	10.6	31.6	-0.346342398	-0.2818276488
## 1362	7.9	29.7	-0.611164661	-0.7585821178
## 1363	9.7	37.1	0.420248365	-0.4407458051
## 1364	13.6	37.7	0.503876448	0.2478995390
## 1365	9.1	29.8	-0.597226647	-0.5466912427
## 1366	8.9	29.9	-0.583288634	-0.5820063885
## 1367	5.9	18.8	-2.130408173	-1.1117335763
## 1368	26.9	41.6	1.047458989	2.5963567383
## 1369	17.4	29.7	-0.611164661	0.9188873102
## 1370	6.1	28.5	-0.778420828	-1.0764184305
## 1371	15.1	29.7	-0.611164661	0.5127631329

## 1372	8.1	24.5	-1.335941382	-0.7232669719
## 1373	11.8	34.9	0.113612060	-0.0699367736
## 1374	7.1	33.8	-0.039706093	-0.8998427012
## 1375	12.4	36.3	0.308744254	0.0360086639
## 1376	8.9	21.3	-1.781957826	-0.5820063885
## 1377	4.8	31.6	-0.346342398	-1.3059668785
## 1378	16.8	34.0	-0.011830065	0.8129418727
## 1379	7.5	37.1	0.420248365	-0.8292124095
## 1380	11.9	30.3	-0.527536578	-0.0522792007
## 1381	7.1	38.1	0.559628504	-0.8998427012
## 1382	23.0	34.6	0.071798018	1.9077113941
## 1383	13.8	32.1	-0.276652328	0.2832146849
## 1384	16.4	42.7	1.200777142	0.7423115810
## 1385	12.1	33.8	-0.039706093	-0.0169640549
## 1386	5.4	35.8	0.239054185	-1.2000214409
## 1387	12.0	39.1	0.699008642	-0.0346216278
## 1388	6.6	37.4	0.462062407	-0.9881305658
## 1389	7.0	30.3	-0.527536578	-0.9175002741
## 1390	13.8	27.6	-0.903862953	0.2832146849
## 1391	12.5	38.6	0.629318573	0.0536662368
## 1392	13.4	29.5	-0.639040689	0.2125843932
## 1393	17.7	41.5	1.033520975	0.9718600290
## 1394	13.9	32.3	-0.248776301	0.3008722578
## 1395	11.7	29.7	-0.611164661	-0.0875943466
## 1396	12.7	33.6	-0.067582120	0.0889813827
## 1397	15.0	38.0	0.545690490	0.4951055600
## 1398	22.7	33.4	-0.095458148	1.8547386754
## 1399	11.3	28.6	-0.764482814	-0.1582246383
## 1400	9.6	23.4	-1.489259535	-0.4584033780
## 1401	14.9	30.5	-0.499660550	0.4774479871
## 1402	8.4	25.2	-1.238375285	-0.6702942531
## 1403	13.2	32.5	-0.220900273	0.1772692473
## 1404	10.1	25.1	-1.252313299	-0.3701155134
## 1405	14.5	33.3	-0.109396162	0.4068176954
## 1406	11.8	30.6	-0.485722536	-0.0699367736
## 1407	9.5	21.4	-1.768019812	-0.4760609510
## 1408	13.5	34.6	0.071798018	0.2302419661
## 1409	18.8	34.3	0.029983977	1.1660933312
## 1410	11.5	34.2	0.016045963	-0.1229094924
## 1411	16.5	34.7	0.085736032	0.7599691539
## 1412	17.4	34.7	0.085736032	0.9188873102
## 1413	10.4	25.9	-1.140809188	-0.3171427946
## 1414	14.2	25.5	-1.196561244	0.3538449766
## 1415	5.9	27.7	-0.889924939	-1.1117335763
## 1416	5.5	23.2	-1.517135563	-1.1823638680
## 1417	12.7	33.0	-0.151210204	0.0889813827
## 1418	9.5	31.4	-0.374218426	-0.4760609510
## 1419	19.7	32.5	-0.220900273	1.3250114876
## 1420	12.6	17.3	-2.339478381	0.0713238098
## 1421	21.5	37.3	0.448124393	1.6428478002
## 1422	14.1	25.6	-1.182623230	0.3361874037
## 1423	12.2	29.5	-0.639040689	0.0006935181
## 1424	13.2	30.8	-0.457846509	0.1772692473
## 1425	9.1	36.3	0.308744254	-0.5466912427

## 1426	14.4	37.2	0.434186379	0.3891601224
## 1427	12.2	31.3	-0.388156439	0.0006935181
## 1428	16.6	32.5	-0.220900273	0.7776267268
## 1429	13.2	23.8	-1.433507480	0.1772692473
## 1430	21.8	37.8	0.517814462	1.6958205190
## 1431	13.9	29.9	-0.583288634	0.3008722578
## 1432	13.3	26.5	-1.057181105	0.1949268203
## 1433	9.1	24.3	-1.363817410	-0.5466912427
## 1434	19.0	31.7	-0.332404384	1.2014084771
## 1435	18.0	27.8	-0.875986925	1.0248327478
## 1436	10.3	28.1	-0.834172883	-0.3348003675
## 1437	15.3	26.7	-1.029305077	0.5480782788
## 1438	11.4	29.3	-0.666916717	-0.1405670654
## 1439	17.7	30.4	-0.513598564	0.9718600290
## 1440	13.6	27.2	-0.959615008	0.2478995390
## 1441	15.9	32.1	-0.276652328	0.6540237163
## 1442	10.9	31.1	-0.416032467	-0.2288549300
## 1443	16.2	33.5	-0.081520134	0.7069964351
## 1444	12.9	30.6	-0.485722536	0.1242965285
## 1445	10.6	30.7	-0.471784523	-0.2818276488
## 1446	15.1	34.5	0.057860004	0.5127631329
## 1447	10.7	17.4	-2.325540367	-0.2641700758
## 1448	12.9	33.6	-0.067582120	0.1242965285
## 1449	16.4	34.9	0.113612060	0.7423115810
## 1450	9.8	22.0	-1.684391729	-0.4230882322
## 1451	12.2	33.6	-0.067582120	0.0006935181
## 1452	11.0	21.6	-1.740143785	-0.2111973571
## 1453	22.5	39.7	0.782636726	1.8194235295
## 1454	11.1	29.2	-0.680854731	-0.1935397841
## 1455	6.6	14.8	-2.687928728	-0.9881305658
## 1456	7.8	30.3	-0.527536578	-0.7762396907
## 1457	13.2	31.6	-0.346342398	0.1772692473
## 1458	13.1	29.0	-0.708730758	0.1596116744
## 1459	12.6	30.8	-0.457846509	0.0713238098
## 1460	13.8	36.2	0.294806240	0.2832146849
## 1461	15.1	23.6	-1.461383507	0.5127631329
## 1462	11.8	26.0	-1.126871174	-0.0699367736
## 1463	12.5	33.8	-0.039706093	0.0536662368
## 1464	21.1	34.9	0.113612060	1.5722175085
## 1465	24.9	34.0	-0.011830065	2.2432052797
## 1466	15.4	34.5	0.057860004	0.5657358517
## 1467	13.1	32.8	-0.179086231	0.1596116744
## 1468	14.3	31.9	-0.304528356	0.3715025495
## 1469	18.2	33.3	-0.109396162	1.0601478937
## 1470	28.2	34.1	0.002107949	2.8259051863
## 1471	12.3	34.7	0.085736032	0.0183510910
## 1472	12.6	41.1	0.977768920	0.0713238098
## 1473	13.1	29.3	-0.666916717	0.1596116744
## 1474	15.4	31.1	-0.416032467	0.5657358517
## 1475	10.8	27.0	-0.987491036	-0.2465125029
## 1476	7.2	25.0	-1.266251313	-0.8821851283
## 1477	18.8	37.0	0.406310351	1.1660933312
## 1478	7.4	15.4	-2.604300644	-0.8468699824
## 1479	16.6	34.1	0.002107949	0.7776267268

## 1480	19.4	35.8	0.239054185	1.2720387688
## 1481	11.8	20.3	-1.921337965	-0.0699367736
## 1482	16.1	30.5	-0.499660550	0.6893388622
## 1483	16.0	31.5	-0.360280412	0.6716812893
## 1484	16.8	31.9	-0.304528356	0.8129418727
## 1485	14.6	34.7	0.085736032	0.4244752683
## 1486	16.8	32.6	-0.206962259	0.8129418727
## 1487	7.1	28.2	-0.820234869	-0.8998427012
## 1488	26.2	29.8	-0.597226647	2.4727537278
## 1489	4.6	29.2	-0.680854731	-1.3412820244
## 1490	4.6	23.3	-1.503197549	-1.3412820244
## 1491	6.8	19.7	-2.004966048	-0.9528154200
## 1492	9.4	23.2	-1.517135563	-0.4937185239
## 1493	8.8	28.8	-0.736606786	-0.5996639614
## 1494	6.0	34.1	0.002107949	-1.0940760034
## 1495	6.5	27.1	-0.973553022	-1.0057881388
## 1496	5.1	30.6	-0.485722536	-1.2529941597
## 1497	8.3	31.8	-0.318466370	-0.6879518261
## 1498	7.4	28.9	-0.722668772	-0.8468699824
## 1499	3.8	39.1	0.699008642	-1.4825426078
## 1500	5.5	27.5	-0.917800966	-1.1823638680
## 1501	27.9	25.2	-1.238375285	2.7729324675
## 1502	3.9	33.0	-0.151210204	-1.4648850348
## 1503	8.0	34.6	0.071798018	-0.7409245449
## 1504	5.1	33.9	-0.025768079	-1.2529941597
## 1505	4.1	31.1	-0.416032467	-1.4295698890
## 1506	8.5	26.4	-1.071119119	-0.6526366802
## 1507	6.9	28.0	-0.848110897	-0.9351578470
## 1508	8.6	33.6	-0.067582120	-0.6349791073
## 1509	7.7	24.9	-1.280189327	-0.7938972636
## 1510	7.1	37.0	0.406310351	-0.8998427012
## 1511	5.2	29.9	-0.583288634	-1.2353365868
## 1512	6.4	28.3	-0.806296855	-1.0234457117
## 1513	15.2	36.4	0.322682268	0.5304207059
## 1514	13.2	23.9	-1.419569466	0.1772692473
## 1515	12.0	32.0	-0.290590342	-0.0346216278
## 1516	7.8	36.3	0.308744254	-0.7762396907
## 1517	10.1	21.3	-1.781957826	-0.3701155134
## 1518	6.3	35.2	0.155426101	-1.0411032846
## 1519	12.2	31.0	-0.429970481	0.0006935181
## 1520	6.9	39.9	0.810512753	-0.9351578470
## 1521	8.4	31.8	-0.318466370	-0.6702942531
## 1522	8.4	33.3	-0.109396162	-0.6702942531
## 1523	9.0	21.9	-1.698329743	-0.5643488156
## 1524	7.6	30.0	-0.569350620	-0.8115548366
## 1525	9.6	30.7	-0.471784523	-0.4584033780
## 1526	5.5	31.4	-0.374218426	-1.1823638680
## 1527	7.3	36.4	0.322682268	-0.8645275553
## 1528	4.0	31.9	-0.304528356	-1.4472274619
## 1529	6.0	30.7	-0.471784523	-1.0940760034
## 1530	8.3	31.7	-0.332404384	-0.6879518261
## 1531	12.1	35.7	0.225116171	-0.0169640549
## 1532	8.3	35.2	0.155426101	-0.6879518261
## 1533	4.6	21.1	-1.809833854	-1.3412820244

## 1534	5.8	29.8 -0.597226647 -1.1293911492
## 1535	9.8	28.9 -0.722668772 -0.4230882322
## 1536	4.7	26.9 -1.001429050 -1.3236244514
## 1537	10.3	34.3 0.029983977 -0.3348003675
## 1538	24.4	32.9 -0.165148217 2.1549174151
## 1539	5.6	30.9 -0.443908495 -1.1647062951
## 1540	7.5	29.5 -0.639040689 -0.8292124095
## 1541	7.3	28.5 -0.778420828 -0.8645275553
## 1542	6.3	29.9 -0.583288634 -1.0411032846
## 1543	5.2	31.3 -0.388156439 -1.2353365868
## 1544	8.9	40.1 0.838388781 -0.5820063885
## 1545	6.4	27.0 -0.987491036 -1.0234457117
## 1546	5.8	26.3 -1.085057133 -1.1293911492
## 1547	5.5	27.8 -0.875986925 -1.1823638680
## 1548	3.0	25.1 -1.252313299 -1.6238031912
## 1549	6.2	28.0 -0.848110897 -1.0587608575
## 1550	5.0	37.2 0.434186379 -1.2706517327
## 1551	12.1	32.1 -0.276652328 -0.0169640549
## 1552	5.8	23.5 -1.475321521 -1.1293911492
## 1553	4.5	28.3 -0.806296855 -1.3589395973
## 1554	10.3	30.1 -0.555412606 -0.3348003675
## 1555	7.6	32.6 -0.206962259 -0.8115548366
## 1556	14.9	38.5 0.615380559 0.4774479871
## 1557	14.0	28.1 -0.834172883 0.3185298307
## 1558	5.5	33.0 -0.151210204 -1.1823638680
## 1559	14.5	25.7 -1.168685216 0.4068176954
## 1560	3.1	21.2 -1.795895840 -1.6061456183
## 1561	8.2	24.5 -1.335941382 -0.7056093990
## 1562	6.5	25.7 -1.168685216 -1.0057881388
## 1563	5.3	24.0 -1.405631452 -1.2176790139
## 1564	3.1	20.2 -1.935275979 -1.6061456183
## 1565	7.5	33.9 -0.025768079 -0.8292124095
## 1566	13.6	34.1 0.002107949 0.2478995390
## 1567	9.6	37.7 0.503876448 -0.4584033780
## 1568	3.6	20.0 -1.963152007 -1.5178577536
## 1569	3.9	31.4 -0.374218426 -1.4648850348
## 1570	8.4	28.7 -0.750544800 -0.6702942531
## 1571	5.7	31.5 -0.360280412 -1.1470487222
## 1572	14.5	23.2 -1.517135563 0.4068176954
## 1573	17.6	27.8 -0.875986925 0.9542024561
## 1574	23.0	31.8 -0.318466370 1.9077113941
## 1575	16.9	32.8 -0.179086231 0.8305994456
## 1576	18.1	27.5 -0.917800966 1.0424903207
## 1577	21.7	22.6 -1.600763646 1.6781629461
## 1578	10.1	36.9 0.392372337 -0.3701155134
## 1579	14.8	25.5 -1.196561244 0.4597904142
## 1580	12.1	42.0 1.103211045 -0.0169640549
## 1581	12.8	32.4 -0.234838287 0.1066389556
## 1582	12.6	29.1 -0.694792744 0.0713238098
## 1583	3.1	9.9 -3.370891407 -1.6061456183
## 1584	23.2	32.1 -0.276652328 1.9430265400
## 1585	32.5	33.7 -0.053644107 3.5851808222
## 1586	19.4	27.2 -0.959615008 1.2720387688
## 1587	14.4	39.9 0.810512753 0.3891601224

## 1588	16.5	31.3	-0.388156439	0.7599691539
## 1589	19.8	29.7	-0.611164661	1.3426690605
## 1590	10.0	25.0	-1.266251313	-0.3877730863
## 1591	16.2	30.7	-0.471784523	0.7069964351
## 1592	21.4	26.3	-1.085057133	1.6251902273
## 1593	10.9	22.9	-1.558949604	-0.2288549300
## 1594	14.6	28.4	-0.792358842	0.4244752683
## 1595	14.7	36.4	0.322682268	0.4421328412
## 1596	15.7	26.3	-1.085057133	0.6187085705
## 1597	21.5	36.6	0.350558296	1.6428478002
## 1598	16.4	42.1	1.117149058	0.7423115810
## 1599	18.6	32.8	-0.179086231	1.1307781854
## 1600	12.3	32.4	-0.234838287	0.0183510910
## 1601	11.4	28.6	-0.764482814	-0.1405670654
## 1602	7.7	24.1	-1.391693438	-0.7938972636
## 1603	8.3	29.6	-0.625102675	-0.6879518261
## 1604	8.7	34.3	0.029983977	-0.6173215344
## 1605	10.1	38.7	0.643256587	-0.3701155134
## 1606	8.0	32.7	-0.193024245	-0.7409245449
## 1607	10.2	32.5	-0.220900273	-0.3524579405
## 1608	15.5	36.7	0.364496310	0.5833934246
## 1609	12.2	36.9	0.392372337	0.0006935181
## 1610	14.0	33.7	-0.053644107	0.3185298307
## 1611	9.9	23.9	-1.419569466	-0.4054306592
## 1612	6.8	37.9	0.531752476	-0.9528154200
## 1613	11.8	27.5	-0.917800966	-0.0699367736
## 1614	7.3	24.1	-1.391693438	-0.8645275553
## 1615	12.5	36.7	0.364496310	0.0536662368
## 1616	27.6	27.6	-0.903862953	2.7199597488
## 1617	11.2	31.1	-0.416032467	-0.1758822112
## 1618	11.4	39.4	0.740822684	-0.1405670654
## 1619	7.8	33.0	-0.151210204	-0.7762396907
## 1620	14.0	35.9	0.252992199	0.3185298307
## 1621	11.6	36.0	0.266930212	-0.1052519195
## 1622	10.2	39.0	0.685070628	-0.3524579405
## 1623	11.5	37.3	0.448124393	-0.1229094924
## 1624	7.5	30.5	-0.499660550	-0.8292124095
## 1625	7.6	32.7	-0.193024245	-0.8115548366
## 1626	11.5	37.7	0.503876448	-0.1229094924
## 1627	5.9	26.2	-1.098995147	-1.1117335763
## 1628	10.5	27.7	-0.889924939	-0.2994852217
## 1629	6.4	32.9	-0.165148217	-1.0234457117
## 1630	13.5	37.6	0.489938434	0.2302419661
## 1631	12.4	35.7	0.225116171	0.0360086639
## 1632	8.8	36.6	0.350558296	-0.5996639614
## 1633	9.4	38.2	0.573566518	-0.4937185239
## 1634	10.2	37.0	0.406310351	-0.3524579405
## 1635	10.6	34.0	-0.011830065	-0.2818276488
## 1636	18.9	25.6	-1.182623230	1.1837509041
## 1637	9.4	46.1	1.674669613	-0.4937185239
## 1638	9.7	32.9	-0.165148217	-0.4407458051
## 1639	7.7	34.0	-0.011830065	-0.7938972636
## 1640	10.7	24.0	-1.405631452	-0.2641700758
## 1641	15.9	35.2	0.155426101	0.6540237163



## 1642	4.2	23.0	-1.545011590	-1.4119123161
## 1643	13.7	12.4	-3.022441060	0.2655571120
## 1644	9.8	34.2	0.016045963	-0.4230882322
## 1645	12.1	32.9	-0.165148217	-0.0169640549
## 1646	10.2	25.3	-1.224437271	-0.3524579405
## 1647	6.7	26.8	-1.015367063	-0.9704729929
## 1648	9.1	29.7	-0.611164661	-0.5466912427
## 1649	12.6	38.8	0.657194601	0.0713238098
## 1650	12.9	37.6	0.489938434	0.1242965285
## 1651	9.3	32.0	-0.290590342	-0.5113760968
## 1652	2.7	26.9	-1.001429050	-1.6767759100
## 1653	11.8	27.6	-0.903862953	-0.0699367736
## 1654	8.4	29.1	-0.694792744	-0.6702942531
## 1655	10.4	30.9	-0.443908495	-0.3171427946
## 1656	10.2	22.5	-1.614701660	-0.3524579405
## 1657	13.5	36.9	0.392372337	0.2302419661
## 1658	4.2	24.5	-1.335941382	-1.4119123161
## 1659	7.9	29.3	-0.666916717	-0.7585821178
## 1660	10.2	36.9	0.392372337	-0.3524579405
## 1661	10.8	36.5	0.336620282	-0.2465125029
## 1662	7.1	34.9	0.113612060	-0.8998427012
## 1663	10.6	37.4	0.462062407	-0.2818276488
## 1664	5.1	27.9	-0.862048911	-1.2529941597
## 1665	12.5	33.6	-0.067582120	0.0536662368
## 1666	7.4	36.1	0.280868226	-0.8468699824
## 1667	9.1	19.4	-2.046780090	-0.5466912427
## 1668	7.3	29.8	-0.597226647	-0.8645275553
## 1669	7.6	31.8	-0.318466370	-0.8115548366
## 1670	8.4	38.2	0.573566518	-0.6702942531
## 1671	8.7	34.6	0.071798018	-0.6173215344
## 1672	6.9	19.6	-2.018904062	-0.9351578470
## 1673	8.2	40.7	0.922016864	-0.7056093990
## 1674	9.1	34.0	-0.011830065	-0.5466912427
## 1675	18.7	43.6	1.326219266	1.1484357583
## 1676	11.6	38.5	0.615380559	-0.1052519195
## 1677	10.8	42.8	1.214715155	-0.2465125029
## 1678	14.2	44.4	1.437723377	0.3538449766
## 1679	17.7	34.9	0.113612060	0.9718600290
## 1680	6.3	43.7	1.340157280	-1.0411032846
## 1681	10.3	42.7	1.200777142	-0.3348003675
## 1682	12.7	46.1	1.674669613	0.0889813827
## 1683	9.2	32.8	-0.179086231	-0.5290336697
## 1684	9.8	47.9	1.925553863	-0.4230882322
## 1685	7.8	47.5	1.869801807	-0.7762396907
## 1686	12.8	36.8	0.378434323	0.1066389556
## 1687	7.3	33.0	-0.151210204	-0.8645275553
## 1688	12.1	39.7	0.782636726	-0.0169640549
## 1689	11.7	45.1	1.535289474	-0.0875943466
## 1690	9.0	48.4	1.995243932	-0.5643488156
## 1691	11.4	45.8	1.632855572	-0.1405670654
## 1692	14.3	28.0	-0.848110897	0.3715025495
## 1693	9.0	48.6	2.023119960	-0.5643488156
## 1694	10.0	44.0	1.381971322	-0.3877730863
## 1695	3.2	18.8	-2.130408173	-1.5884880453

## 1696	9.6	37.8	0.517814462	-0.4584033780
## 1697	7.4	33.6	-0.067582120	-0.8468699824
## 1698	14.6	47.2	1.827987766	0.4244752683
## 1699	12.5	24.8	-1.294127341	0.0536662368
## 1700	7.9	41.4	1.019582961	-0.7585821178
## 1701	16.1	40.7	0.922016864	0.6893388622
## 1702	4.6	25.1	-1.252313299	-1.3412820244
## 1703	8.8	24.4	-1.349879396	-0.5996639614
## 1704	16.4	44.1	1.395909336	0.7423115810
## 1705	13.2	26.4	-1.071119119	0.1772692473
## 1706	9.2	36.2	0.294806240	-0.5290336697
## 1707	11.7	48.4	1.995243932	-0.0875943466
## 1708	12.5	48.2	1.967367904	0.0536662368
## 1709	7.1	43.2	1.270467211	-0.8998427012
## 1710	16.1	45.4	1.577103516	0.6893388622
## 1711	12.6	44.8	1.493475433	0.0713238098
## 1712	9.9	33.2	-0.123334176	-0.4054306592
## 1713	10.3	46.6	1.744359682	-0.3348003675
## 1714	16.4	41.8	1.075335017	0.7423115810
## 1715	12.5	43.4	1.298343239	0.0536662368
## 1716	11.6	40.0	0.824450767	-0.1052519195
## 1717	5.7	31.9	-0.304528356	-1.1470487222
## 1718	14.1	43.5	1.312281253	0.3361874037
## 1719	9.2	34.8	0.099674046	-0.5290336697
## 1720	10.2	49.0	2.078872015	-0.3524579405
## 1721	10.4	31.5	-0.360280412	-0.3171427946
## 1722	16.1	29.7	-0.611164661	0.6893388622
## 1723	7.7	41.5	1.033520975	-0.7938972636
## 1724	13.8	38.0	0.545690490	0.2832146849
## 1725	12.9	43.4	1.298343239	0.1242965285
## 1726	4.6	31.6	-0.346342398	-1.3412820244
## 1727	18.4	41.8	1.075335017	1.0954630395
## 1728	5.6	46.5	1.730421669	-1.1647062951
## 1729	8.2	36.8	0.378434323	-0.7056093990
## 1730	13.3	52.2	2.524888459	0.1949268203
## 1731	14.4	28.1	-0.834172883	0.3891601224
## 1732	15.7	45.6	1.604979544	0.6187085705
## 1733	7.2	44.5	1.451661391	-0.8821851283
## 1734	13.5	42.1	1.117149058	0.2302419661
## 1735	8.5	49.1	2.092810029	-0.6526366802
## 1736	6.9	35.5	0.197240143	-0.9351578470
## 1737	8.2	48.8	2.050995988	-0.7056093990
## 1738	15.8	44.9	1.507413447	0.6363661434
## 1739	9.5	41.0	0.963830906	-0.4760609510
## 1740	16.2	40.4	0.880202823	0.7069964351
## 1741	10.0	36.3	0.308744254	-0.3877730863
## 1742	9.8	43.6	1.326219266	-0.4230882322
## 1743	5.7	42.4	1.158963100	-1.1470487222
## 1744	12.0	39.8	0.796574739	-0.0346216278
## 1745	13.8	42.3	1.145025086	0.2832146849
## 1746	10.4	42.3	1.145025086	-0.3171427946
## 1747	17.8	42.0	1.103211045	0.9895176020
## 1748	11.5	46.1	1.674669613	-0.1229094924
## 1749	6.8	42.5	1.172901114	-0.9528154200

## 1750	10.4	37.8	0.517814462	-0.3171427946
## 1751	10.4	30.6	-0.485722536	-0.3171427946
## 1752	13.3	44.9	1.507413447	0.1949268203
## 1753	9.9	45.7	1.618917558	-0.4054306592
## 1754	5.5	34.1	0.002107949	-1.1823638680
## 1755	8.3	46.1	1.674669613	-0.6879518261
## 1756	16.9	46.2	1.688607627	0.8305994456
## 1757	3.9	25.9	-1.140809188	-1.4648850348
## 1758	10.8	41.8	1.075335017	-0.2465125029
## 1759	9.5	39.4	0.740822684	-0.4760609510
## 1760	9.6	43.4	1.298343239	-0.4584033780
## 1761	6.9	31.1	-0.416032467	-0.9351578470
## 1762	6.7	46.2	1.688607627	-0.9704729929
## 1763	23.3	45.6	1.604979544	1.9606841129
## 1764	9.4	39.1	0.699008642	-0.4937185239
## 1765	17.6	40.6	0.908078850	0.9542024561
## 1766	10.6	38.4	0.601442545	-0.2818276488
## 1767	10.5	34.5	0.057860004	-0.2994852217
## 1768	12.7	32.0	-0.290590342	0.0889813827
## 1769	16.3	39.9	0.810512753	0.7246540081
## 1770	5.6	29.5	-0.639040689	-1.1647062951
## 1771	10.5	36.4	0.322682268	-0.2994852217
## 1772	14.7	31.4	-0.374218426	0.4421328412
## 1773	21.6	39.4	0.740822684	1.6605053732
## 1774	7.7	25.6	-1.182623230	-0.7938972636
## 1775	14.8	41.7	1.061397003	0.4597904142
## 1776	12.9	32.1	-0.276652328	0.1242965285
## 1777	12.4	43.4	1.298343239	0.0360086639
## 1778	13.1	40.1	0.838388781	0.1596116744
## 1779	11.4	40.5	0.894140837	-0.1405670654
## 1780	11.5	30.6	-0.485722536	-0.1229094924
## 1781	14.6	35.6	0.211178157	0.4244752683
## 1782	10.2	36.8	0.378434323	-0.3524579405
## 1783	13.6	45.1	1.535289474	0.2478995390
## 1784	9.4	39.8	0.796574739	-0.4937185239
## 1785	11.8	36.6	0.350558296	-0.0699367736
## 1786	14.6	37.4	0.462062407	0.4244752683
## 1787	14.8	39.2	0.712946656	0.4597904142
## 1788	13.2	27.6	-0.903862953	0.1772692473
## 1789	14.8	39.4	0.740822684	0.4597904142
## 1790	15.9	35.6	0.211178157	0.6540237163
## 1791	13.6	32.7	-0.193024245	0.2478995390
## 1792	6.9	35.4	0.183302129	-0.9351578470
## 1793	17.3	36.3	0.308744254	0.9012297373
## 1794	15.2	36.2	0.294806240	0.5304207059
## 1795	17.7	40.3	0.866264809	0.9718600290
## 1796	10.8	39.2	0.712946656	-0.2465125029
## 1797	8.9	32.1	-0.276652328	-0.5820063885
## 1798	8.9	42.8	1.214715155	-0.5820063885
## 1799	6.3	33.3	-0.109396162	-1.0411032846
## 1800	19.0	43.5	1.312281253	1.2014084771
## 1801	14.4	42.2	1.131087072	0.3891601224
## 1802	12.9	35.4	0.183302129	0.1242965285
## 1803	16.2	39.1	0.699008642	0.7069964351

## 1804	10.3	37.4	0.462062407	-0.3348003675
## 1805	16.4	36.2	0.294806240	0.7423115810
## 1806	8.4	39.9	0.810512753	-0.6702942531
## 1807	15.9	45.4	1.577103516	0.6540237163
## 1808	19.4	38.6	0.629318573	1.2720387688
## 1809	13.3	25.3	-1.224437271	0.1949268203
## 1810	16.3	35.7	0.225116171	0.7246540081
## 1811	10.7	38.6	0.629318573	-0.2641700758
## 1812	17.3	37.3	0.448124393	0.9012297373
## 1813	11.0	43.7	1.340157280	-0.2111973571
## 1814	14.9	26.9	-1.001429050	0.4774479871
## 1815	12.6	38.5	0.615380559	0.0713238098
## 1816	12.6	33.3	-0.109396162	0.0713238098
## 1817	12.9	35.9	0.252992199	0.1242965285
## 1818	15.7	41.1	0.977768920	0.6187085705
## 1819	6.9	32.8	-0.179086231	-0.9351578470
## 1820	17.0	34.1	0.002107949	0.8482570185
## 1821	20.1	38.5	0.615380559	1.3956417793
## 1822	11.2	41.1	0.977768920	-0.1758822112
## 1823	9.5	26.1	-1.112933161	-0.4760609510
## 1824	17.6	33.6	-0.067582120	0.9542024561
## 1825	12.3	25.5	-1.196561244	0.0183510910
## 1826	8.1	32.9	-0.165148217	-0.7232669719
## 1827	10.8	33.9	-0.025768079	-0.2465125029
## 1828	13.3	42.9	1.228653169	0.1949268203
## 1829	7.8	29.8	-0.597226647	-0.7762396907
## 1830	9.1	40.7	0.922016864	-0.5466912427
## 1831	10.1	32.9	-0.165148217	-0.3701155134
## 1832	8.3	13.9	-2.813370852	-0.6879518261
## 1833	6.3	21.3	-1.781957826	-1.0411032846
## 1834	10.1	25.1	-1.252313299	-0.3701155134
## 1835	8.5	34.3	0.029983977	-0.6526366802
## 1836	12.0	30.2	-0.541474592	-0.0346216278
## 1837	11.8	33.0	-0.151210204	-0.0699367736
## 1838	9.6	26.7	-1.029305077	-0.4584033780
## 1839	9.7	22.3	-1.642577688	-0.4407458051
## 1840	13.3	32.4	-0.234838287	0.1949268203
## 1841	10.6	33.3	-0.109396162	-0.2818276488
## 1842	12.4	33.0	-0.151210204	0.0360086639
## 1843	7.3	21.2	-1.795895840	-0.8645275553
## 1844	12.6	26.3	-1.085057133	0.0713238098
## 1845	13.4	29.6	-0.625102675	0.2125843932
## 1846	14.2	30.9	-0.443908495	0.3538449766
## 1847	13.4	30.1	-0.555412606	0.2125843932
## 1848	12.1	35.5	0.197240143	-0.0169640549
## 1849	11.4	23.5	-1.475321521	-0.1405670654
## 1850	12.8	27.5	-0.917800966	0.1066389556
## 1851	12.2	30.0	-0.569350620	0.0006935181
## 1852	18.8	30.3	-0.527536578	1.1660933312
## 1853	12.7	27.7	-0.889924939	0.0889813827
## 1854	11.4	32.5	-0.220900273	-0.1405670654
## 1855	11.2	17.3	-2.339478381	-0.1758822112
## 1856	10.2	24.0	-1.405631452	-0.3524579405
## 1857	8.5	31.5	-0.360280412	-0.6526366802

## 1858	13.7	28.5	-0.778420828	0.2655571120
## 1859	12.1	32.7	-0.193024245	-0.0169640549
## 1860	12.6	30.1	-0.555412606	0.0713238098
## 1861	9.8	28.5	-0.778420828	-0.4230882322
## 1862	7.9	17.5	-2.311602353	-0.7585821178
## 1863	11.9	25.6	-1.182623230	-0.0522792007
## 1864	6.3	40.5	0.894140837	-1.0411032846
## 1865	8.7	27.8	-0.875986925	-0.6173215344
## 1866	9.7	48.0	1.939491877	-0.4407458051
## 1867	7.9	38.2	0.573566518	-0.7585821178
## 1868	10.5	51.2	2.385508320	-0.2994852217
## 1869	10.4	37.2	0.434186379	-0.3171427946
## 1870	10.0	45.4	1.577103516	-0.3877730863
## 1871	8.4	46.7	1.758297696	-0.6702942531
## 1872	4.0	28.8	-0.736606786	-1.4472274619
## 1873	5.4	33.2	-0.123334176	-1.2000214409
## 1874	10.4	44.9	1.507413447	-0.3171427946
## 1875	8.0	45.5	1.591041530	-0.7409245449
## 1876	6.7	30.0	-0.569350620	-0.9704729929
## 1877	4.3	21.4	-1.768019812	-1.3942547431
## 1878	10.5	45.0	1.521351461	-0.2994852217
## 1879	10.3	49.1	2.092810029	-0.3348003675
## 1880	11.2	45.5	1.591041530	-0.1758822112
## 1881	8.0	43.4	1.298343239	-0.7409245449
## 1882	10.2	46.3	1.702545641	-0.3524579405
## 1883	5.7	32.9	-0.165148217	-1.1470487222
## 1884	9.1	33.6	-0.067582120	-0.5466912427
## 1885	7.6	30.5	-0.499660550	-0.8115548366
## 1886	7.5	48.5	2.009181946	-0.8292124095
## 1887	11.7	39.0	0.685070628	-0.0875943466
## 1888	13.5	49.2	2.106748043	0.2302419661
## 1889	8.4	55.6	2.998780931	-0.6702942531
## 1890	8.6	42.7	1.200777142	-0.6349791073
## 1891	8.4	52.2	2.524888459	-0.6702942531
## 1892	11.6	46.4	1.716483655	-0.1052519195
## 1893	9.1	49.2	2.106748043	-0.5466912427
## 1894	9.4	43.7	1.340157280	-0.4937185239
## 1895	10.5	50.1	2.232190168	-0.2994852217
## 1896	7.1	49.5	2.148562085	-0.8998427012
## 1897	10.6	36.8	0.378434323	-0.2818276488
## 1898	7.2	35.8	0.239054185	-0.8821851283
## 1899	10.9	43.4	1.298343239	-0.2288549300
## 1900	7.9	44.2	1.409847350	-0.7585821178
## 1901	9.6	32.9	-0.165148217	-0.4584033780
## 1902	11.9	38.9	0.671132615	-0.0522792007
## 1903	10.0	39.1	0.699008642	-0.3877730863
## 1904	12.5	47.8	1.911615849	0.0536662368
## 1905	10.1	43.5	1.312281253	-0.3701155134
## 1906	9.6	51.8	2.469136404	-0.4584033780
## 1907	9.0	35.4	0.183302129	-0.5643488156
## 1908	4.3	23.8	-1.433507480	-1.3942547431
## 1909	6.0	40.9	0.949892892	-1.0940760034
## 1910	6.4	34.8	0.099674046	-1.0234457117
## 1911	9.9	50.0	2.218252154	-0.4054306592

## 1912	5.2	46.5	1.730421669	-1.2353365868
## 1913	20.4	33.0	-0.151210204	1.4486144980
## 1914	7.6	34.0	-0.011830065	-0.8115548366
## 1915	10.2	47.5	1.869801807	-0.3524579405
## 1916	9.3	46.6	1.744359682	-0.5113760968
## 1917	8.4	46.2	1.688607627	-0.6702942531
## 1918	8.9	50.1	2.232190168	-0.5820063885
## 1919	5.3	48.5	2.009181946	-1.2176790139
## 1920	8.9	45.5	1.591041530	-0.5820063885
## 1921	8.8	45.4	1.577103516	-0.5996639614
## 1922	9.0	38.8	0.657194601	-0.5643488156
## 1923	9.6	48.4	1.995243932	-0.4584033780
## 1924	8.6	46.1	1.674669613	-0.6349791073
## 1925	7.1	38.2	0.573566518	-0.8998427012
## 1926	8.2	43.8	1.354095294	-0.7056093990
## 1927	6.9	37.5	0.476000420	-0.9351578470
## 1928	7.1	47.4	1.855863793	-0.8998427012
## 1929	7.5	40.2	0.852326795	-0.8292124095
## 1930	5.1	19.9	-1.977090020	-1.2529941597
## 1931	5.0	28.4	-0.792358842	-1.2706517327
## 1932	6.6	21.7	-1.726205771	-0.9881305658
## 1933	13.0	30.9	-0.443908495	0.1419541015
## 1934	5.4	22.7	-1.586825632	-1.2000214409
## 1935	15.2	34.6	0.071798018	0.5304207059
## 1936	13.7	32.2	-0.262714315	0.2655571120
## 1937	12.8	31.3	-0.388156439	0.1066389556
## 1938	17.5	33.2	-0.123334176	0.9365448832
## 1939	21.5	35.7	0.225116171	1.6428478002
## 1940	8.1	22.9	-1.558949604	-0.7232669719
## 1941	10.1	29.7	-0.611164661	-0.3701155134
## 1942	13.9	37.2	0.434186379	0.3008722578
## 1943	11.3	22.7	-1.586825632	-0.1582246383
## 1944	18.0	36.6	0.350558296	1.0248327478
## 1945	19.5	41.2	0.991706934	1.2896963417
## 1946	20.1	40.4	0.880202823	1.3956417793
## 1947	21.6	37.3	0.448124393	1.6605053732
## 1948	16.8	44.1	1.395909336	0.8129418727
## 1949	17.9	35.4	0.183302129	1.0071751749
## 1950	24.9	38.4	0.601442545	2.2432052797
## 1951	9.5	27.7	-0.889924939	-0.4760609510
## 1952	14.4	37.1	0.420248365	0.3891601224
## 1953	18.0	39.3	0.726884670	1.0248327478
## 1954	14.8	33.1	-0.137272190	0.4597904142
## 1955	14.5	29.0	-0.708730758	0.4068176954
## 1956	10.6	24.7	-1.308065355	-0.2818276488
## 1957	19.1	30.8	-0.457846509	1.2190660500
## 1958	13.5	46.9	1.786173724	0.2302419661
## 1959	12.6	32.8	-0.179086231	0.0713238098
## 1960	17.8	38.3	0.587504531	0.9895176020
## 1961	11.6	36.9	0.392372337	-0.1052519195
## 1962	13.4	31.9	-0.304528356	0.2125843932
## 1963	16.0	35.0	0.127550074	0.6716812893
## 1964	21.1	42.1	1.117149058	1.5722175085
## 1965	10.0	28.7	-0.750544800	-0.3877730863

## 1966	12.4	32.9	-0.165148217	0.0360086639
## 1967	19.0	39.0	0.685070628	1.2014084771
## 1968	22.8	41.4	1.019582961	1.8723962483
## 1969	15.2	36.0	0.266930212	0.5304207059
## 1970	12.9	29.9	-0.583288634	0.1242965285
## 1971	18.2	32.3	-0.248776301	1.0601478937
## 1972	9.5	30.1	-0.555412606	-0.4760609510
## 1973	12.0	22.4	-1.628639674	-0.0346216278
## 1974	15.2	36.2	0.294806240	0.5304207059
## 1975	12.8	29.4	-0.652978703	0.1066389556
## 1976	15.6	31.0	-0.429970481	0.6010509976
## 1977	17.1	39.8	0.796574739	0.8659145915
## 1978	24.2	41.9	1.089273031	2.1196022693
## 1979	9.7	25.9	-1.140809188	-0.4407458051
## 1980	16.0	35.3	0.169364115	0.6716812893
## 1981	22.6	32.1	-0.276652328	1.8370811024
## 1982	6.4	28.6	-0.764482814	-1.0234457117
## 1983	7.2	30.5	-0.499660550	-0.8821851283
## 1984	6.2	42.2	1.131087072	-1.0587608575
## 1985	13.5	38.2	0.573566518	0.2302419661
## 1986	12.1	21.7	-1.726205771	-0.0169640549
## 1987	5.6	36.8	0.378434323	-1.1647062951
## 1988	7.6	30.6	-0.485722536	-0.8115548366
## 1989	8.0	30.6	-0.485722536	-0.7409245449
## 1990	22.5	35.6	0.211178157	1.8194235295
## 1991	11.0	31.9	-0.304528356	-0.2111973571
## 1992	11.0	34.4	0.043921991	-0.2111973571
## 1993	4.7	27.8	-0.875986925	-1.3236244514
## 1994	6.9	34.7	0.085736032	-0.9351578470
## 1995	6.5	30.0	-0.569350620	-1.0057881388
## 1996	2.0	21.7	-1.726205771	-1.8003789205
## 1997	6.1	30.6	-0.485722536	-1.0764184305
## 1998	38.1	37.1	0.420248365	4.5740049061
## 1999	8.1	27.2	-0.959615008	-0.7232669719
## 2000	8.9	28.6	-0.764482814	-0.5820063885
## 2001	13.8	35.6	0.211178157	0.2832146849
## 2002	7.0	36.5	0.336620282	-0.9175002741
## 2003	4.0	27.7	-0.889924939	-1.4472274619
## 2004	4.9	38.5	0.615380559	-1.2883093056
## 2005	10.1	33.0	-0.151210204	-0.3701155134
## 2006	13.1	33.1	-0.137272190	0.1596116744
## 2007	12.2	40.6	0.908078850	0.0006935181
## 2008	17.0	46.5	1.730421669	0.8482570185
## 2009	16.7	38.7	0.643256587	0.7952842998
## 2010	10.0	34.8	0.099674046	-0.3877730863
## 2011	14.1	32.3	-0.248776301	0.3361874037
## 2012	17.3	40.9	0.949892892	0.9012297373
## 2013	12.6	48.5	2.009181946	0.0713238098
## 2014	14.3	41.6	1.047458989	0.3715025495
## 2015	18.5	39.4	0.740822684	1.1131206124
## 2016	9.5	36.4	0.322682268	-0.4760609510
## 2017	13.5	40.7	0.922016864	0.2302419661
## 2018	18.2	38.4	0.601442545	1.0601478937
## 2019	19.0	46.1	1.674669613	1.2014084771

## 2020	21.9	45.4	1.577103516	1.7134780919
## 2021	12.0	38.7	0.643256587	-0.0346216278
## 2022	12.5	41.9	1.089273031	0.0536662368
## 2023	10.9	40.0	0.824450767	-0.2288549300
## 2024	13.1	22.7	-1.586825632	0.1596116744
## 2025	16.0	43.8	1.354095294	0.6716812893
## 2026	17.3	42.2	1.131087072	0.9012297373
## 2027	12.7	41.2	0.991706934	0.0889813827
## 2028	14.4	37.3	0.448124393	0.3891601224
## 2029	10.1	33.1	-0.137272190	-0.3701155134
## 2030	18.9	44.3	1.423785364	1.1837509041
## 2031	11.8	40.0	0.824450767	-0.0699367736
## 2032	15.1	38.8	0.657194601	0.5127631329
## 2033	12.7	44.0	1.381971322	0.0889813827
## 2034	15.6	44.1	1.395909336	0.6010509976
## 2035	14.4	42.4	1.158963100	0.3891601224
## 2036	23.2	42.1	1.117149058	1.9430265400
## 2037	18.2	40.3	0.866264809	1.0601478937
## 2038	10.2	27.5	-0.917800966	-0.3524579405
## 2039	20.9	42.6	1.186839128	1.5369023627
## 2040	16.9	47.6	1.883739821	0.8305994456
## 2041	15.6	42.9	1.228653169	0.6010509976
## 2042	15.4	43.2	1.270467211	0.5657358517
## 2043	14.7	45.1	1.535289474	0.4421328412
## 2044	16.0	40.2	0.852326795	0.6716812893
## 2045	14.7	47.2	1.827987766	0.4421328412
## 2046	17.5	44.5	1.451661391	0.9365448832
## 2047	12.9	46.1	1.674669613	0.1242965285
## 2048	13.3	46.7	1.758297696	0.1949268203
## 2049	19.4	46.8	1.772235710	1.2720387688
## 2050	10.1	38.9	0.671132615	-0.3701155134
## 2051	21.0	41.9	1.089273031	1.5545599356
## 2052	11.1	25.8	-1.154747202	-0.1935397841
## 2053	22.8	43.8	1.354095294	1.8723962483
## 2054	20.9	44.6	1.465599405	1.5369023627
## 2055	14.4	44.8	1.493475433	0.3891601224
## 2056	16.3	41.3	1.005644947	0.7246540081
## 2057	15.5	40.7	0.922016864	0.5833934246
## 2058	9.2	33.8	-0.039706093	-0.5290336697
## 2059	15.5	42.6	1.186839128	0.5833934246
## 2060	15.8	44.2	1.409847350	0.6363661434
## 2061	14.5	46.2	1.688607627	0.4068176954
## 2062	14.7	34.5	0.057860004	0.4421328412
## 2063	14.7	39.5	0.754760698	0.4421328412
## 2064	11.7	42.2	1.131087072	-0.0875943466
## 2065	11.6	35.8	0.239054185	-0.1052519195
## 2066	15.4	45.4	1.577103516	0.5657358517
## 2067	14.3	40.2	0.852326795	0.3715025495
## 2068	11.9	29.1	-0.694792744	-0.0522792007
## 2069	17.1	50.3	2.260066196	0.8659145915
## 2070	16.7	44.8	1.493475433	0.7952842998
## 2071	13.6	45.2	1.549227488	0.2478995390
## 2072	21.6	35.5	0.197240143	1.6605053732
## 2073	13.0	39.1	0.699008642	0.1419541015



## 2074	16.8	37.0	0.406310351	0.8129418727
## 2075	19.0	37.1	0.420248365	1.2014084771
## 2076	11.8	37.1	0.420248365	-0.0699367736
## 2077	8.4	38.9	0.671132615	-0.6702942531
## 2078	8.4	28.3	-0.806296855	-0.6702942531
## 2079	21.7	45.0	1.521351461	1.6781629461
## 2080	14.6	39.2	0.712946656	0.4244752683
## 2081	11.2	36.4	0.322682268	-0.1758822112
## 2082	16.7	27.5	-0.917800966	0.7952842998
## 2083	12.8	46.9	1.786173724	0.1066389556
## 2084	13.5	42.5	1.172901114	0.2302419661
## 2085	12.7	34.7	0.085736032	0.0889813827
## 2086	7.2	31.1	-0.416032467	-0.8821851283
## 2087	11.7	38.5	0.615380559	-0.0875943466
## 2088	7.2	34.8	0.099674046	-0.8821851283
## 2089	17.2	40.5	0.894140837	0.8835721644
## 2090	20.1	46.0	1.660731599	1.3956417793
## 2091	10.5	49.8	2.190376126	-0.2994852217
## 2092	15.2	43.0	1.242591183	0.5304207059
## 2093	12.1	28.8	-0.736606786	-0.0169640549
## 2094	16.3	44.4	1.437723377	0.7246540081
## 2095	12.3	38.0	0.545690490	0.0183510910
## 2096	13.7	43.4	1.298343239	0.2655571120
## 2097	3.7	13.5	-2.869122908	-1.5002001807
## 2098	6.9	29.9	-0.583288634	-0.9351578470
## 2099	13.7	36.2	0.294806240	0.2655571120
## 2100	9.3	36.7	0.364496310	-0.5113760968
## 2101	15.6	31.9	-0.304528356	0.6010509976
## 2102	11.5	29.7	-0.611164661	-0.1229094924
## 2103	11.6	39.9	0.810512753	-0.1052519195
## 2104	11.2	29.3	-0.666916717	-0.1758822112
## 2105	10.1	31.8	-0.318466370	-0.3701155134
## 2106	10.2	29.4	-0.652978703	-0.3524579405
## 2107	8.6	32.5	-0.220900273	-0.6349791073
## 2108	18.2	34.9	0.113612060	1.0601478937
## 2109	11.7	25.9	-1.140809188	-0.0875943466
## 2110	13.6	25.2	-1.238375285	0.2478995390
## 2111	5.7	28.7	-0.750544800	-1.1470487222
## 2112	11.1	35.7	0.225116171	-0.1935397841
## 2113	16.6	34.8	0.099674046	0.7776267268
## 2114	7.9	25.3	-1.224437271	-0.7585821178
## 2115	14.2	19.6	-2.018904062	0.3538449766
## 2116	6.8	20.4	-1.907399951	-0.9528154200
## 2117	34.6	27.5	-0.917800966	3.9559898536
## 2118	13.4	35.7	0.225116171	0.2125843932
## 2119	9.8	39.2	0.712946656	-0.4230882322
## 2120	9.0	31.1	-0.416032467	-0.5643488156
## 2121	12.8	37.3	0.448124393	0.1066389556
## 2122	14.4	33.3	-0.109396162	0.3891601224
## 2123	12.2	38.0	0.545690490	0.0006935181
## 2124	29.2	26.0	-1.126871174	3.0024809156
## 2125	13.1	35.7	0.225116171	0.1596116744
## 2126	4.4	28.8	-0.736606786	-1.3765971702
## 2127	13.3	43.3	1.284405225	0.1949268203

## 2128	7.7	29.1	-0.694792744	-0.7938972636
## 2129	17.3	31.5	-0.360280412	0.9012297373
## 2130	22.3	38.9	0.671132615	1.7841083837
## 2131	12.2	34.1	0.002107949	0.0006935181
## 2132	5.2	14.8	-2.687928728	-1.2353365868
## 2133	9.9	36.4	0.322682268	-0.4054306592
## 2134	6.8	26.0	-1.126871174	-0.9528154200
## 2135	15.0	36.2	0.294806240	0.4951055600
## 2136	11.0	31.5	-0.360280412	-0.2111973571
## 2137	11.2	28.0	-0.848110897	-0.1758822112
## 2138	13.5	26.5	-1.057181105	0.2302419661
## 2139	15.2	22.6	-1.600763646	0.5304207059
## 2140	12.6	36.6	0.350558296	0.0713238098
## 2141	14.3	34.2	0.016045963	0.3715025495
## 2142	5.8	18.1	-2.227974270	-1.1293911492
## 2143	12.1	39.2	0.712946656	-0.0169640549
## 2144	18.7	33.2	-0.123334176	1.1484357583
## 2145	20.6	31.1	-0.416032467	1.4839296439
## 2146	14.5	35.5	0.197240143	0.4068176954
## 2147	10.0	30.1	-0.555412606	-0.3877730863
## 2148	8.5	28.3	-0.806296855	-0.6526366802
## 2149	19.2	23.9	-1.419569466	1.2367236229
## 2150	14.3	23.4	-1.489259535	0.3715025495
## 2151	18.4	37.9	0.531752476	1.0954630395
## 2152	12.4	35.8	0.239054185	0.0360086639
## 2153	6.3	40.3	0.866264809	-1.0411032846
## 2154	6.4	17.7	-2.283726325	-1.0234457117
## 2155	12.1	30.0	-0.569350620	-0.0169640549
## 2156	12.5	32.8	-0.179086231	0.0536662368
## 2157	17.8	35.7	0.225116171	0.9895176020
## 2158	7.6	29.4	-0.652978703	-0.8115548366
## 2159	10.2	25.5	-1.196561244	-0.3524579405
## 2160	8.3	30.6	-0.485722536	-0.6879518261
## 2161	13.4	41.4	1.019582961	0.2125843932
## 2162	11.6	32.3	-0.248776301	-0.1052519195
## 2163	12.0	30.9	-0.443908495	-0.0346216278
## 2164	15.1	28.7	-0.750544800	0.5127631329
## 2165	14.4	35.6	0.211178157	0.3891601224
## 2166	7.8	30.9	-0.443908495	-0.7762396907
## 2167	16.2	33.9	-0.025768079	0.7069964351
## 2168	13.1	33.8	-0.039706093	0.1596116744
## 2169	9.6	39.4	0.740822684	-0.4584033780
## 2170	14.4	23.2	-1.517135563	0.3891601224
## 2171	13.4	34.3	0.029983977	0.2125843932
## 2172	9.2	22.3	-1.642577688	-0.5290336697
## 2173	14.0	33.7	-0.053644107	0.3185298307
## 2174	28.6	23.2	-1.517135563	2.8965354780
## 2175	13.9	34.6	0.071798018	0.3008722578
## 2176	11.3	26.6	-1.043243091	-0.1582246383
## 2177	7.9	30.0	-0.569350620	-0.7585821178
## 2178	15.9	36.2	0.294806240	0.6540237163
## 2179	18.1	36.9	0.392372337	1.0424903207
## 2180	12.1	33.6	-0.067582120	-0.0169640549
## 2181	14.9	34.9	0.113612060	0.4774479871

## 2182	12.3	33.4	-0.095458148	0.0183510910
## 2183	11.5	39.6	0.768698712	-0.1229094924
## 2184	8.8	33.0	-0.151210204	-0.5996639614
## 2185	10.8	44.6	1.465599405	-0.2465125029
## 2186	15.9	32.6	-0.206962259	0.6540237163
## 2187	15.7	36.7	0.364496310	0.6187085705
## 2188	9.2	33.8	-0.039706093	-0.5290336697
## 2189	14.0	40.3	0.866264809	0.3185298307
## 2190	20.6	36.6	0.350558296	1.4839296439
## 2191	10.9	33.1	-0.137272190	-0.2288549300
## 2192	4.1	21.2	-1.795895840	-1.4295698890
## 2193	13.5	27.5	-0.917800966	0.2302419661
## 2194	15.3	25.2	-1.238375285	0.5480782788
## 2195	15.6	33.6	-0.067582120	0.6010509976
## 2196	17.5	32.6	-0.206962259	0.9365448832
## 2197	9.1	28.1	-0.834172883	-0.5466912427
## 2198	9.3	42.5	1.172901114	-0.5113760968
## 2199	8.9	41.2	0.991706934	-0.5820063885
## 2200	10.5	36.8	0.378434323	-0.2994852217
## 2201	12.2	38.8	0.657194601	0.0006935181
## 2202	12.4	39.3	0.726884670	0.0360086639
## 2203	15.9	34.9	0.113612060	0.6540237163
## 2204	14.2	34.5	0.057860004	0.3538449766
## 2205	9.7	25.9	-1.140809188	-0.4407458051
## 2206	12.5	26.3	-1.085057133	0.0536662368
## 2207	13.3	27.6	-0.903862953	0.1949268203
## 2208	14.2	38.7	0.643256587	0.3538449766
## 2209	14.5	40.7	0.922016864	0.4068176954
## 2210	18.3	31.7	-0.332404384	1.0778054666
## 2211	22.1	21.9	-1.698329743	1.7487932378
## 2212	10.6	30.9	-0.443908495	-0.2818276488
## 2213	5.7	25.9	-1.140809188	-1.1470487222
## 2214	12.2	38.2	0.573566518	0.0006935181
## 2215	4.0	37.3	0.448124393	-1.4472274619
## 2216	11.8	37.5	0.476000420	-0.0699367736
## 2217	8.3	22.3	-1.642577688	-0.6879518261
## 2218	13.6	23.3	-1.503197549	0.2478995390
## 2219	14.9	40.8	0.935954878	0.4774479871
## 2220	18.0	29.2	-0.680854731	1.0248327478
## 2221	16.1	29.4	-0.652978703	0.6893388622
## 2222	10.5	41.7	1.061397003	-0.2994852217
## 2223	13.0	33.1	-0.137272190	0.1419541015
## 2224	12.8	28.9	-0.722668772	0.1066389556
## 2225	11.3	38.8	0.657194601	-0.1582246383
## 2226	14.2	36.0	0.266930212	0.3538449766
## 2227	9.5	33.5	-0.081520134	-0.4760609510
## 2228	6.5	28.8	-0.736606786	-1.0057881388
## 2229	6.5	36.5	0.336620282	-1.0057881388
## 2230	13.7	36.7	0.364496310	0.2655571120
## 2231	18.2	31.6	-0.346342398	1.0601478937
## 2232	6.3	41.8	1.075335017	-1.0411032846
## 2233	6.8	21.9	-1.698329743	-0.9528154200
## 2234	12.9	40.2	0.852326795	0.1242965285
## 2235	13.2	27.6	-0.903862953	0.1772692473

## 2236	14.9	36.7	0.364496310	0.4774479871
## 2237	11.9	36.7	0.364496310	-0.0522792007
## 2238	4.9	19.6	-2.018904062	-1.2883093056
## 2239	13.6	34.9	0.113612060	0.2478995390
## 2240	13.2	31.5	-0.360280412	0.1772692473
## 2241	17.1	39.0	0.685070628	0.8659145915
## 2242	18.7	39.0	0.685070628	1.1484357583
## 2243	11.7	49.5	2.148562085	-0.0875943466
## 2244	11.8	32.7	-0.193024245	-0.0699367736
## 2245	5.1	32.3	-0.248776301	-1.2529941597
## 2246	18.5	33.4	-0.095458148	1.1131206124
## 2247	11.8	24.2	-1.377755424	-0.0699367736
## 2248	17.5	34.5	0.057860004	0.9365448832
## 2249	35.3	25.0	-1.266251313	4.0795928641
## 2250	18.1	29.8	-0.597226647	1.0424903207
## 2251	19.0	31.7	-0.332404384	1.2014084771
## 2252	10.9	24.0	-1.405631452	-0.2288549300
## 2253	12.0	30.1	-0.555412606	-0.0346216278
## 2254	11.1	31.6	-0.346342398	-0.1935397841
## 2255	17.8	32.7	-0.193024245	0.9895176020
## 2256	9.6	30.5	-0.499660550	-0.4584033780
## 2257	10.2	16.8	-2.409168450	-0.3524579405
## 2258	12.7	37.5	0.476000420	0.0889813827
## 2259	11.4	44.2	1.409847350	-0.1405670654
## 2260	9.2	34.1	0.002107949	-0.5290336697
## 2261	17.2	26.9	-1.001429050	0.8835721644
## 2262	17.1	23.8	-1.433507480	0.8659145915
## 2263	11.1	33.3	-0.109396162	-0.1935397841
## 2264	11.1	30.4	-0.513598564	-0.1935397841
## 2265	13.4	38.6	0.629318573	0.2125843932
## 2266	12.0	32.4	-0.234838287	-0.0346216278
## 2267	11.6	35.2	0.155426101	-0.1052519195
## 2268	10.4	32.6	-0.206962259	-0.3171427946
## 2269	28.1	26.4	-1.071119119	2.8082476134
## 2270	14.4	29.5	-0.639040689	0.3891601224
## 2271	14.5	31.6	-0.346342398	0.4068176954
## 2272	11.5	33.7	-0.053644107	-0.1229094924
## 2273	35.5	36.5	0.336620282	4.1149080100
## 2274	4.9	20.4	-1.907399951	-1.2883093056
## 2275	7.0	35.9	0.252992199	-0.9175002741
## 2276	14.8	27.9	-0.862048911	0.4597904142
## 2277	9.6	33.8	-0.039706093	-0.4584033780
## 2278	9.2	34.2	0.016045963	-0.5290336697
## 2279	10.6	35.1	0.141488088	-0.2818276488
## 2280	26.7	29.5	-0.639040689	2.5610415924
## 2281	31.6	31.3	-0.388156439	3.4262626658
## 2282	10.7	35.1	0.141488088	-0.2641700758
## 2283	8.6	30.9	-0.443908495	-0.6349791073
## 2284	10.4	20.3	-1.921337965	-0.3171427946
## 2285	11.5	27.2	-0.959615008	-0.1229094924
## 2286	6.0	20.9	-1.837709882	-1.0940760034
## 2287	9.1	36.6	0.350558296	-0.5466912427
## 2288	7.7	33.9	-0.025768079	-0.7938972636
## 2289	15.0	28.4	-0.792358842	0.4951055600

## 2290	15.6	25.2	-1.238375285	0.6010509976
## 2291	12.2	37.3	0.448124393	0.0006935181
## 2292	4.8	24.0	-1.405631452	-1.3059668785
## 2293	7.0	31.0	-0.429970481	-0.9175002741
## 2294	3.4	17.7	-2.283726325	-1.5531728995
## 2295	8.1	22.8	-1.572887618	-0.7232669719
## 2296	22.0	30.6	-0.485722536	1.7311356649
## 2297	9.6	27.7	-0.889924939	-0.4584033780
## 2298	10.6	33.1	-0.137272190	-0.2818276488
## 2299	6.4	15.0	-2.660052700	-1.0234457117
## 2300	5.8	30.3	-0.527536578	-1.1293911492
## 2301	6.7	35.2	0.155426101	-0.9704729929
## 2302	9.1	16.3	-2.478858520	-0.5466912427
## 2303	7.2	20.4	-1.907399951	-0.8821851283
## 2304	10.2	23.3	-1.503197549	-0.3524579405
## 2305	8.7	29.4	-0.652978703	-0.6173215344
## 2306	13.4	38.8	0.657194601	0.2125843932
## 2307	6.4	16.6	-2.437044478	-1.0234457117
## 2308	14.5	40.0	0.824450767	0.4068176954
## 2309	9.5	39.2	0.712946656	-0.4760609510
## 2310	8.8	35.7	0.225116171	-0.5996639614
## 2311	13.4	34.5	0.057860004	0.2125843932
## 2312	5.9	8.1	-3.621775657	-1.1117335763
## 2313	6.8	38.2	0.573566518	-0.9528154200
## 2314	6.7	31.3	-0.388156439	-0.9704729929
## 2315	5.9	39.9	0.810512753	-1.1117335763
## 2316	5.8	32.3	-0.248776301	-1.1293911492
## 2317	14.7	37.5	0.476000420	0.4421328412
## 2318	19.9	36.1	0.280868226	1.3603266334
## 2319	13.5	43.8	1.354095294	0.2302419661
## 2320	9.9	31.5	-0.360280412	-0.4054306592
## 2321	9.2	37.5	0.476000420	-0.5290336697
## 2322	12.5	36.3	0.308744254	0.0536662368
## 2323	14.8	43.6	1.326219266	0.4597904142
## 2324	4.7	23.4	-1.489259535	-1.3236244514
## 2325	6.1	28.9	-0.722668772	-1.0764184305
## 2326	6.3	30.2	-0.541474592	-1.0411032846
## 2327	16.9	34.9	0.113612060	0.8305994456
## 2328	19.1	37.1	0.420248365	1.2190660500
## 2329	12.4	37.4	0.462062407	0.0360086639
## 2330	9.3	37.7	0.503876448	-0.5113760968
## 2331	4.0	12.8	-2.966689005	-1.4472274619
## 2332	4.2	26.8	-1.015367063	-1.4119123161
## 2333	7.6	33.5	-0.081520134	-0.8115548366
## 2334	6.0	24.1	-1.391693438	-1.0940760034
## 2335	10.4	34.8	0.099674046	-0.3171427946
## 2336	3.9	32.6	-0.206962259	-1.4648850348
## 2337	8.2	37.5	0.476000420	-0.7056093990
## 2338	4.2	33.2	-0.123334176	-1.4119123161
## 2339	3.8	25.7	-1.168685216	-1.4825426078
## 2340	16.1	39.6	0.768698712	0.6893388622
## 2341	6.1	30.7	-0.471784523	-1.0764184305
## 2342	13.9	37.0	0.406310351	0.3008722578
## 2343	3.9	25.6	-1.182623230	-1.4648850348

## 2344	7.8	21.7	-1.726205771	-0.7762396907
## 2345	15.0	34.3	0.029983977	0.4951055600
## 2346	7.9	27.0	-0.987491036	-0.7585821178
## 2347	5.2	18.7	-2.144346187	-1.2353365868
## 2348	3.9	28.0	-0.848110897	-1.4648850348
## 2349	7.5	36.1	0.280868226	-0.8292124095
## 2350	5.1	30.4	-0.513598564	-1.2529941597
## 2351	21.1	33.9	-0.025768079	1.5722175085
## 2352	2.6	12.4	-3.022441060	-1.6944334829
## 2353	8.5	33.9	-0.025768079	-0.6526366802
## 2354	14.9	39.8	0.796574739	0.4774479871
## 2355	6.4	32.0	-0.290590342	-1.0234457117
## 2356	12.7	31.8	-0.318466370	0.0889813827
## 2357	7.1	32.2	-0.262714315	-0.8998427012
## 2358	8.3	22.2	-1.656515701	-0.6879518261
## 2359	9.3	31.5	-0.360280412	-0.5113760968
## 2360	3.7	33.0	-0.151210204	-1.5002001807
## 2361	15.9	35.9	0.252992199	0.6540237163
## 2362	8.6	32.4	-0.234838287	-0.6349791073
## 2363	17.4	37.9	0.531752476	0.9188873102
## 2364	6.6	34.9	0.113612060	-0.9881305658
## 2365	11.6	44.3	1.423785364	-0.1052519195
## 2366	17.4	34.9	0.113612060	0.9188873102
## 2367	11.7	35.3	0.169364115	-0.0875943466
## 2368	3.1	30.3	-0.527536578	-1.6061456183
## 2369	11.3	32.7	-0.193024245	-0.1582246383
## 2370	5.3	20.7	-1.865585909	-1.2176790139
## 2371	10.1	32.7	-0.193024245	-0.3701155134
## 2372	14.0	38.8	0.657194601	0.3185298307
## 2373	5.6	25.5	-1.196561244	-1.1647062951
## 2374	9.0	34.8	0.099674046	-0.5643488156
## 2375	13.7	36.1	0.280868226	0.2655571120
## 2376	16.5	37.2	0.434186379	0.7599691539
## 2377	6.8	38.0	0.545690490	-0.9528154200
## 2378	14.0	37.9	0.531752476	0.3185298307
## 2379	12.0	30.4	-0.513598564	-0.0346216278
## 2380	5.7	29.6	-0.625102675	-1.1470487222
## 2381	3.5	22.5	-1.614701660	-1.5355153266
## 2382	12.1	36.3	0.308744254	-0.0169640549
## 2383	8.4	36.0	0.266930212	-0.6702942531
## 2384	9.4	33.1	-0.137272190	-0.4937185239
## 2385	7.4	32.6	-0.206962259	-0.8468699824
## 2386	17.9	30.7	-0.471784523	1.0071751749
## 2387	12.1	38.4	0.601442545	-0.0169640549
## 2388	4.9	18.1	-2.227974270	-1.2883093056
## 2389	7.0	12.0	-3.078193116	-0.9175002741
## 2390	16.5	30.4	-0.513598564	0.7599691539
## 2391	25.8	39.0	0.685070628	2.4021234361
## 2392	12.4	18.7	-2.144346187	0.0360086639
## 2393	7.8	25.0	-1.266251313	-0.7762396907
## 2394	10.0	32.2	-0.262714315	-0.3877730863
## 2395	16.6	43.3	1.284405225	0.7776267268
## 2396	17.0	29.8	-0.597226647	0.8482570185
## 2397	1.2	13.2	-2.910936950	-1.9416395039

## 2398	1.4	5.5	-3.984164017	-1.9063243580
## 2399	10.2	30.6	-0.485722536	-0.3524579405
## 2400	13.1	23.2	-1.517135563	0.1596116744
## 2401	21.1	33.3	-0.109396162	1.5722175085
## 2402	11.8	28.2	-0.820234869	-0.0699367736
## 2403	15.1	26.4	-1.071119119	0.5127631329
## 2404	17.9	36.4	0.322682268	1.0071751749
## 2405	17.8	25.4	-1.210499258	0.9895176020
## 2406	7.3	26.5	-1.057181105	-0.8645275553
## 2407	18.4	31.2	-0.402094453	1.0954630395
## 2408	12.7	28.6	-0.764482814	0.0889813827
## 2409	16.4	25.6	-1.182623230	0.7423115810
## 2410	25.3	24.4	-1.349879396	2.3138355714
## 2411	25.0	34.3	0.029983977	2.2608628527
## 2412	3.3	26.0	-1.126871174	-1.5708304724
## 2413	14.5	29.8	-0.597226647	0.4068176954
## 2414	16.0	23.5	-1.475321521	0.6716812893
## 2415	19.4	22.3	-1.642577688	1.2720387688
## 2416	18.4	32.7	-0.193024245	1.0954630395
## 2417	7.3	28.7	-0.750544800	-0.8645275553
## 2418	10.6	29.6	-0.625102675	-0.2818276488
## 2419	9.0	28.1	-0.834172883	-0.5643488156
## 2420	6.4	21.4	-1.768019812	-1.0234457117
## 2421	9.7	32.8	-0.179086231	-0.4407458051
## 2422	10.2	25.0	-1.266251313	-0.3524579405
## 2423	6.0	30.5	-0.499660550	-1.0940760034
## 2424	9.1	29.3	-0.666916717	-0.5466912427
## 2425	8.6	36.1	0.280868226	-0.6349791073
## 2426	6.1	19.2	-2.074656117	-1.0764184305
## 2427	9.3	45.5	1.591041530	-0.5113760968
## 2428	6.8	38.2	0.573566518	-0.9528154200
## 2429	5.2	28.1	-0.834172883	-1.2353365868
## 2430	8.6	25.1	-1.252313299	-0.6349791073
## 2431	8.4	35.5	0.197240143	-0.6702942531
## 2432	10.0	38.3	0.587504531	-0.3877730863
## 2433	8.3	35.1	0.141488088	-0.6879518261
## 2434	8.4	27.3	-0.945676994	-0.6702942531
## 2435	9.8	30.2	-0.541474592	-0.4230882322
## 2436	5.6	30.1	-0.555412606	-1.1647062951
## 2437	18.3	27.1	-0.973553022	1.0778054666
## 2438	9.3	28.1	-0.834172883	-0.5113760968
## 2439	10.1	24.3	-1.363817410	-0.3701155134
## 2440	9.1	27.2	-0.959615008	-0.5466912427
## 2441	10.0	26.2	-1.098995147	-0.3877730863
## 2442	6.9	23.9	-1.419569466	-0.9351578470
## 2443	10.2	24.0	-1.405631452	-0.3524579405
## 2444	11.9	30.7	-0.471784523	-0.0522792007
## 2445	9.2	29.0	-0.708730758	-0.5290336697
## 2446	15.1	34.5	0.057860004	0.5127631329
## 2447	13.8	26.0	-1.126871174	0.2832146849
## 2448	12.1	26.6	-1.043243091	-0.0169640549
## 2449	10.5	32.9	-0.165148217	-0.2994852217
## 2450	6.6	22.4	-1.628639674	-0.9881305658
## 2451	6.8	20.9	-1.837709882	-0.9528154200

## 2452	6.7	15.2	-2.632176672	-0.9704729929
## 2453	7.1	22.6	-1.600763646	-0.8998427012
## 2454	9.9	23.5	-1.475321521	-0.4054306592
## 2455	11.3	25.5	-1.196561244	-0.1582246383
## 2456	10.4	29.5	-0.639040689	-0.3171427946
## 2457	9.2	28.7	-0.750544800	-0.5290336697
## 2458	10.7	31.3	-0.388156439	-0.2641700758
## 2459	15.1	30.1	-0.555412606	0.5127631329
## 2460	10.2	30.1	-0.555412606	-0.3524579405
## 2461	14.9	30.2	-0.541474592	0.4774479871
## 2462	8.8	27.5	-0.917800966	-0.5996639614
## 2463	6.9	16.7	-2.423106464	-0.9351578470
## 2464	9.5	26.3	-1.085057133	-0.4760609510
## 2465	8.7	31.0	-0.429970481	-0.6173215344
## 2466	6.2	23.8	-1.433507480	-1.0587608575
## 2467	9.9	23.6	-1.461383507	-0.4054306592
## 2468	11.5	34.5	0.057860004	-0.1229094924
## 2469	8.1	21.3	-1.781957826	-0.7232669719
## 2470	11.2	20.6	-1.879523923	-0.1758822112
## 2471	9.7	23.3	-1.503197549	-0.4407458051
## 2472	11.7	16.1	-2.506734547	-0.0875943466
## 2473	15.9	28.2	-0.820234869	0.6540237163
## 2474	7.7	42.8	1.214715155	-0.7938972636
## 2475	12.0	35.6	0.211178157	-0.0346216278
## 2476	8.4	37.1	0.420248365	-0.6702942531
## 2477	8.0	28.8	-0.736606786	-0.7409245449
## 2478	8.6	30.2	-0.541474592	-0.6349791073
## 2479	7.8	41.5	1.033520975	-0.7762396907
## 2480	11.7	37.8	0.517814462	-0.0875943466
## 2481	5.0	31.6	-0.346342398	-1.2706517327
## 2482	7.5	36.3	0.308744254	-0.8292124095
## 2483	10.7	41.6	1.047458989	-0.2641700758
## 2484	5.8	33.9	-0.025768079	-1.1293911492
## 2485	9.2	40.2	0.852326795	-0.5290336697
## 2486	6.2	17.9	-2.255850298	-1.0587608575
## 2487	6.2	41.7	1.061397003	-1.0587608575
## 2488	5.2	31.1	-0.416032467	-1.2353365868
## 2489	11.1	31.1	-0.416032467	-0.1935397841
## 2490	7.1	34.1	0.002107949	-0.8998427012
## 2491	6.9	25.3	-1.224437271	-0.9351578470
## 2492	6.0	36.6	0.350558296	-1.0940760034
## 2493	12.4	38.6	0.629318573	0.0360086639
## 2494	8.1	36.4	0.322682268	-0.7232669719
## 2495	5.9	35.9	0.252992199	-1.1117335763
## 2496	7.0	39.9	0.810512753	-0.9175002741
## 2497	6.3	35.1	0.141488088	-1.0411032846
## 2498	9.3	33.8	-0.039706093	-0.5113760968
## 2499	9.4	40.0	0.824450767	-0.4937185239
## 2500	6.3	33.8	-0.039706093	-1.0411032846
## 2501	8.3	41.8	1.075335017	-0.6879518261
## 2502	10.9	31.0	-0.429970481	-0.2288549300
## 2503	5.7	40.8	0.935954878	-1.1470487222
## 2504	6.7	25.4	-1.210499258	-0.9704729929
## 2505	7.9	38.9	0.671132615	-0.7585821178



## 2506	11.9	42.5	1.172901114	-0.0522792007
## 2507	5.8	38.5	0.615380559	-1.1293911492
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## 2509	7.9	34.5	0.057860004	-0.7585821178
## 2510	9.0	42.9	1.228653169	-0.5643488156
## 2511	7.4	41.8	1.075335017	-0.8468699824
## 2512	16.7	28.2	-0.820234869	0.7952842998
## 2513	9.9	37.3	0.448124393	-0.4054306592
## 2514	6.6	43.3	1.284405225	-0.9881305658
## 2515	6.0	32.4	-0.234838287	-1.0940760034
## 2516	6.3	32.3	-0.248776301	-1.0411032846
## 2517	3.5	20.0	-1.963152007	-1.5355153266
## 2518	6.6	32.6	-0.206962259	-0.9881305658
## 2519	6.9	37.7	0.503876448	-0.9351578470
## 2520	6.4	31.8	-0.318466370	-1.0234457117
## 2521	8.9	40.3	0.866264809	-0.5820063885
## 2522	9.6	31.6	-0.346342398	-0.4584033780
## 2523	10.3	40.9	0.949892892	-0.3348003675
## 2524	11.2	36.4	0.322682268	-0.1758822112
## 2525	11.9	41.0	0.963830906	-0.0522792007
## 2526	3.5	25.9	-1.140809188	-1.5355153266
## 2527	7.7	34.4	0.043921991	-0.7938972636
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## 2529	8.3	44.5	1.451661391	-0.6879518261
## 2530	6.3	36.3	0.308744254	-1.0411032846
## 2531	7.4	45.1	1.535289474	-0.8468699824
## 2532	7.0	38.8	0.657194601	-0.9175002741
## 2533	10.0	37.6	0.489938434	-0.3877730863
## 2534	9.0	31.1	-0.416032467	-0.5643488156
## 2535	7.7	31.6	-0.346342398	-0.7938972636
## 2536	8.5	35.9	0.252992199	-0.6526366802
## 2537	3.7	30.3	-0.527536578	-1.5002001807
## 2538	3.5	23.1	-1.531073577	-1.5355153266
## 2539	7.5	42.8	1.214715155	-0.8292124095
## 2540	6.2	41.8	1.075335017	-1.0587608575
## 2541	6.4	33.6	-0.067582120	-1.0234457117
## 2542	7.0	37.7	0.503876448	-0.9175002741
## 2543	17.7	46.1	1.674669613	0.9718600290
## 2544	10.0	37.5	0.476000420	-0.3877730863
## 2545	20.4	50.6	2.301880237	1.4486144980
## 2546	14.6	47.5	1.869801807	0.4244752683
## 2547	8.5	41.7	1.061397003	-0.6526366802
## 2548	14.4	33.1	-0.137272190	0.3891601224
## 2549	10.6	48.5	2.009181946	-0.2818276488
## 2550	13.6	53.5	2.706082639	0.2478995390
## 2551	7.9	45.1	1.535289474	-0.7585821178
## 2552	14.7	43.0	1.242591183	0.4421328412
## 2553	7.9	45.3	1.563165502	-0.7585821178
## 2554	14.0	38.6	0.629318573	0.3185298307
## 2555	10.1	44.9	1.507413447	-0.3701155134
## 2556	10.5	41.2	0.991706934	-0.2994852217
## 2557	9.7	46.4	1.716483655	-0.4407458051
## 2558	11.9	38.3	0.587504531	-0.0522792007
## 2559	10.3	44.0	1.381971322	-0.3348003675

## 2560	7.2	32.1	-0.276652328	-0.8821851283
## 2561	11.4	37.5	0.476000420	-0.1405670654
## 2562	13.7	49.5	2.148562085	0.2655571120
## 2563	19.8	46.8	1.772235710	1.3426690605
## 2564	17.0	43.9	1.368033308	0.8482570185
## 2565	31.7	44.9	1.507413447	3.4439202388
## 2566	11.9	40.2	0.852326795	-0.0522792007
## 2567	9.9	43.2	1.270467211	-0.4054306592
## 2568	15.8	46.5	1.730421669	0.6363661434
## 2569	16.1	39.7	0.782636726	0.6893388622
## 2570	12.2	48.4	1.995243932	0.0006935181
## 2571	21.6	43.2	1.270467211	1.6605053732
## 2572	11.0	28.8	-0.736606786	-0.2111973571
## 2573	15.1	52.2	2.524888459	0.5127631329
## 2574	8.0	39.9	0.810512753	-0.7409245449
## 2575	12.4	49.3	2.120686057	0.0360086639
## 2576	10.7	34.8	0.099674046	-0.2641700758
## 2577	12.6	51.9	2.483074418	0.0713238098
## 2578	12.0	47.5	1.869801807	-0.0346216278
## 2579	11.6	48.8	2.050995988	-0.1052519195
## 2580	7.2	37.3	0.448124393	-0.8821851283
## 2581	13.6	40.2	0.852326795	0.2478995390
## 2582	12.1	48.4	1.995243932	-0.0169640549
## 2583	11.9	48.4	1.995243932	-0.0522792007
## 2584	14.4	43.0	1.242591183	0.3891601224
## 2585	14.2	44.1	1.395909336	0.3538449766
## 2586	12.5	46.0	1.660731599	0.0536662368
## 2587	10.9	48.7	2.037057974	-0.2288549300
## 2588	13.9	48.0	1.939491877	0.3008722578
## 2589	16.9	40.1	0.838388781	0.8305994456
## 2590	25.2	49.7	2.176438112	2.2961779985
## 2591	14.5	50.7	2.315818251	0.4068176954
## 2592	13.1	34.9	0.113612060	0.1596116744
## 2593	16.5	49.1	2.092810029	0.7599691539
## 2594	11.4	16.0	-2.520672561	-0.1405670654
## 2595	7.8	29.1	-0.694792744	-0.7762396907
## 2596	5.5	34.0	-0.011830065	-1.1823638680
## 2597	13.3	35.2	0.155426101	0.1949268203
## 2598	4.4	38.2	0.573566518	-1.3765971702
## 2599	5.2	29.0	-0.708730758	-1.2353365868
## 2600	9.8	31.1	-0.416032467	-0.4230882322
## 2601	13.4	29.1	-0.694792744	0.2125843932
## 2602	2.2	29.2	-0.680854731	-1.7650637746
## 2603	7.5	25.8	-1.154747202	-0.8292124095
## 2604	6.1	31.8	-0.318466370	-1.0764184305
## 2605	7.0	29.0	-0.708730758	-0.9175002741
## 2606	3.8	26.7	-1.029305077	-1.4825426078
## 2607	12.6	37.0	0.406310351	0.0713238098
## 2608	5.1	24.3	-1.363817410	-1.2529941597
## 2609	8.4	33.3	-0.109396162	-0.6702942531
## 2610	3.0	13.2	-2.910936950	-1.6238031912
## 2611	13.3	40.1	0.838388781	0.1949268203
## 2612	10.0	30.3	-0.527536578	-0.3877730863
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## 1	-0.2380577422	66.3	Legal for Medical and Recreational
## 2	0.0827569968	79.8	Legal for Medical and Recreational
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## 57	1.4040384404	135.4	Legal for Medical Only
## 58	0.1231558899	81.5	Legal for Medical Only
## 59	0.6934932037	105.5	Legal for Medical Only
## 60	0.7719145843	108.8	Legal for Medical Only
## 61	0.8146898828	110.6	Legal for Medical Only
## 62	0.9049932909	114.4	Legal for Medical Only
## 63	0.5794257409	100.7	Legal for Medical Only
## 64	1.4872126320	138.9	Legal for Medical Only
## 65	0.7529033405	108.0	Legal for Medical Only
## 66	0.8289483157	111.2	Legal for Medical Only
## 67	3.7804439144	235.4	Legal for Medical Only
## 68	-0.7608669464	44.3	Legal for Medical Only
## 69	-0.2356813367	66.4	Legal for Medical Only
## 70	2.2856848713	172.5	Legal for Medical Only
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## 72	0.9382629675	115.8	Legal for Medical Only
## 73	1.5775160400	142.7	Legal for Medical Only
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## 76	0.3061391114	89.2	Legal for Medical Only
## 77	0.0328524819	77.7	Legal for Medical Only
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## 83	1.9244712392	157.3	Legal for Medical Only
## 84	1.9411060775	158.0	Legal for Medical Only
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## 93	0.0280996709	77.5	Legal for Medical Only
## 94	2.4116343614	177.8	Legal for Medical Only
## 95	0.9358865620	115.7	Legal for Medical Only
## 96	0.6887403927	105.3	Legal for Medical Only
## 97	2.0266566746	161.6	Legal for Medical Only
## 98	1.9838813761	159.8	Legal for Medical Only
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## 101	0.7671617734	108.6	Legal for Medical Only
## 102	1.2139260025	127.4	Legal for Medical Only
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## 104	2.0718083786	163.5	Legal for Medical Only
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## 108	0.1659311884	83.3	Legal for Medical Only

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## 113	1.5941508783	143.4	Legal for Medical Only
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## 121	0.9002404799	114.2	Legal for Medical Only
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## 143	-0.1929060381	68.2	Legal for Medical and Recreational
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## 170	-0.9414737625	36.7	Legal for Medical and Recreational
## 171	-0.2998442845	63.7	Legal for Medical and Recreational
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## 440	2.4353984161	178.8	Legal for Medical Only
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## 447	-0.5945185633	51.3	Legal for Medical Only
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## 453	0.1873188377	84.2	Legal for Medical Only
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## 467	0.4534762508	95.4	Legal for Medical Only
## 468	-0.2356813367	66.4	Legal for Medical Only
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## 470	-0.5042151552	55.1	Legal for Medical Only
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## 1162	-0.2737038243	64.8	Legal for Medical Only
## 1163	-0.8345355161	41.2	Legal for Medical Only
## 1164	-1.3335806657	20.2	Legal for Medical Only
## 1165	-0.6610579165	48.5	Legal for Medical Only
## 1166	-1.1268333894	28.9	Legal for Medical Only
## 1167	-0.4780746950	56.2	Legal for Medical Only
## 1168	-0.0360632769	74.8	Legal for Medical Only
## 1169	-0.3093499064	63.3	Legal for Medical Only
## 1170	-0.2903386626	64.1	Legal for Medical Only
## 1171	-0.1834004162	68.6	Legal for Medical Only
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## 1173	-0.6254118344	50.0	Legal for Medical Only
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## 1177	-0.3782656651	60.4	Legal for Medical Only
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## 1179	-0.9295917351	37.2	Legal for Medical Only
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## 1186	-1.5735976186	10.1	Legal for Medical Only
## 1187	1.6464317988	145.6	Legal for Medical Only
## 1188	-0.7822545957	43.4	Legal for Medical Only



## 1189	-0.5541196702	53.0	Legal for Medical Only
## 1190	-0.6871983767	47.4	Legal for Medical Only
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## 1192	-0.9248389241	37.4	Legal for Medical Only
## 1193	0.8836056416	113.5	Legal for Medical and Recreational
## 1194	-1.7898505167	1.0	Legal for Medical and Recreational
## 1195	-0.1548835506	69.8	Legal for Medical and Recreational
## 1196	1.1307518109	123.9	Legal for Medical and Recreational
## 1197	1.2067967861	127.1	Legal for Medical and Recreational
## 1198	-0.4638162622	56.8	Legal for Medical and Recreational
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## 1200	-0.2546925805	65.6	Legal for Medical and Recreational
## 1201	-0.7085860260	46.5	Legal for Medical and Recreational
## 1202	0.7814202062	109.2	Legal for Medical and Recreational
## 1203	2.4805501201	180.7	Legal for Medical and Recreational
## 1204	-1.7494516236	2.7	Legal for Medical and Recreational
## 1205	-0.7679961629	44.0	Legal for Medical and Recreational
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## 1207	0.9857910770	117.8	Legal for Medical and Recreational
## 1208	0.2443525691	86.6	Legal for Medical and Recreational
## 1209	0.7101280420	106.2	Legal for Medical and Recreational
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## 1213	-0.3307375556	62.4	Legal for Medical and Recreational
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## 1226	1.1687742985	125.5	Legal for Medical and Recreational
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## 1518	-0.3354903666	62.2	Decriminalized
## 1519	0.0280996709	77.5	Decriminalized
## 1520	0.9905438879	118.0	Decriminalized
## 1521	1.0285663755	119.6	Decriminalized
## 1522	-1.1553502551	27.7	Decriminalized
## 1523	-0.3188555283	62.9	Decriminalized
## 1524	0.4653582782	95.9	Decriminalized
## 1525	0.3037627059	89.1	Decriminalized
## 1526	0.4178301687	93.9	Decriminalized
## 1527	0.2514817855	86.9	Decriminalized
## 1528	0.9073696963	114.5	Decriminalized
## 1529	0.0257232655	77.4	Decriminalized
## 1530	0.8360775321	111.5	Decriminalized
## 1531	-0.5873893468	51.6	Decriminalized
## 1532	-0.5588724811	52.8	Decriminalized
## 1533	-0.5469904538	53.3	Decriminalized
## 1534	-1.0626704416	31.6	Decriminalized
## 1535	0.4249593851	94.2	Decriminalized
## 1536	-0.5873893468	51.6	Decriminalized
## 1537	-1.7946033276	0.8	Decriminalized
## 1538	-1.7755920838	1.6	Decriminalized
## 1539	-0.4281701801	58.3	Decriminalized
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## 1544	-0.1311194958	70.8	Legal for Medical Only
## 1545	-0.2024116600	67.8	Legal for Medical Only
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## 1547	-0.0622037371	73.7	Legal for Medical Only
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## 1549	0.0851334023	79.9	Legal for Medical Only
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## 1552	-0.8036422450	42.5	Legal for Medical and Recreational
## 1553	-0.1738947944	69.0	Legal for Medical and Recreational
## 1554	0.2015772705	84.8	Legal for Medical and Recreational
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## 1556	0.3655492483	91.7	Legal for Medical and Recreational
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## 1868	-0.2309285257	66.6	Legal for Medical Only
## 1869	-0.4067825308	59.2	Legal for Medical Only
## 1870	0.6934932037	105.5	Legal for Medical Only
## 1871	-0.1501307396	70.0	Legal for Medical Only
## 1872	-0.2356813367	66.4	Legal for Medical Only
## 1873	-0.1667655779	69.3	Legal for Medical Only
## 1874	0.5318976314	98.7	Legal for Medical Only
## 1875	-0.0550745207	74.0	Legal for Medical Only
## 1876	-0.6634343220	48.4	Legal for Medical Only
## 1877	-0.6064005906	50.8	Legal for Medical Only
## 1878	-0.1834004162	68.6	Legal for Medical Only
## 1879	-0.0146756276	75.7	Legal for Medical Only
## 1880	-0.0645801425	73.6	Legal for Medical Only
## 1881	0.1041446461	80.7	Legal for Medical Only
## 1882	0.1920716486	84.4	Legal for Medical Only
## 1883	-0.1643891725	69.4	Legal for Medical Only
## 1884	-0.2832094462	64.4	Legal for Medical Only
## 1885	-0.1358723068	70.6	Legal for Medical Only
## 1886	0.2776222457	88.0	Legal for Medical Only
## 1887	0.0756277804	79.5	Legal for Medical Only
## 1888	1.2471956791	128.8	Legal for Medical Only
## 1889	-0.8274062997	41.5	Legal for Medical Only
## 1890	-0.0740857644	73.2	Legal for Medical Only

## 1891	-1.4856706160	13.8	Legal for Medical Only
## 1892	0.0661221585	79.1	Legal for Medical Only
## 1893	-0.3901476925	59.9	Legal for Medical Only
## 1894	-0.1239902794	71.1	Legal for Medical Only
## 1895	-0.0740857644	73.2	Legal for Medical Only
## 1896	-0.4875803169	55.8	Legal for Medical Only
## 1897	0.8503359650	112.1	Legal for Medical Only
## 1898	-0.5160971826	54.6	Legal for Medical Only
## 1899	0.3821840866	92.4	Legal for Medical Only
## 1900	-0.4376758020	57.9	Legal for Medical Only
## 1901	-0.6729399439	48.0	Legal for Medical Only
## 1902	0.2229649198	85.7	Legal for Medical Only
## 1903	0.2372233527	86.3	Legal for Medical Only
## 1904	0.2514817855	86.9	Legal for Medical Only
## 1905	0.7814202062	109.2	Legal for Medical Only
## 1906	0.1421671337	82.3	Legal for Medical Only
## 1907	-0.0099228166	75.9	Legal for Medical Only
## 1908	-0.4020297199	59.4	Legal for Medical Only
## 1909	0.0399816983	78.0	Legal for Medical Only
## 1910	-0.2356813367	66.4	Legal for Medical Only
## 1911	0.4487234398	95.2	Legal for Medical Only
## 1912	-0.4852039115	55.9	Legal for Medical Only
## 1913	-0.2071644710	67.6	Legal for Medical Only
## 1914	-0.6539287001	48.8	Legal for Medical Only
## 1915	-0.3164791228	63.0	Legal for Medical Only
## 1916	0.0684985640	79.2	Legal for Medical Only
## 1917	-0.2475633640	65.9	Legal for Medical Only
## 1918	-0.1548835506	69.8	Legal for Medical Only
## 1919	-0.7537377300	44.6	Legal for Medical Only
## 1920	-0.5826365359	51.8	Legal for Medical Only
## 1921	-0.0218048440	75.4	Legal for Medical Only
## 1922	-0.4210409637	58.6	Legal for Medical Only
## 1923	0.1041446461	80.7	Legal for Medical Only
## 1924	0.0019592107	76.4	Legal for Medical Only
## 1925	-0.0978498192	72.2	Legal for Medical Only
## 1926	-0.2784566352	64.6	Legal for Medical Only
## 1927	-0.0526981152	74.1	Legal for Medical Only
## 1928	0.1041446461	80.7	Legal for Medical Only
## 1929	-0.3283611502	62.5	Legal for Medical Only
## 1930	-0.7561141355	44.5	Legal for Medical and Recreational
## 1931	-0.1097318466	71.7	Legal for Medical and Recreational
## 1932	-0.3949005034	59.7	Legal for Medical and Recreational
## 1933	-0.4329229910	58.1	Legal for Medical and Recreational
## 1934	-0.3117263118	63.2	Legal for Medical and Recreational
## 1935	-0.4352993965	58.0	Legal for Medical Only
## 1936	0.2704930293	87.7	Legal for Medical Only
## 1937	0.4107009523	93.6	Legal for Medical Only
## 1938	0.5889313628	101.1	Legal for Medical Only
## 1939	0.5247684150	98.4	Legal for Medical Only
## 1940	-0.2689510133	65.0	Legal for Medical Only
## 1941	-0.4020297199	59.4	Legal for Medical Only
## 1942	-1.5450807529	11.3	Legal for Medical Only
## 1943	-0.0075464112	76.0	Legal for Medical Only
## 1944	0.9382629675	115.8	Legal for Medical Only

## 1945	0.4986279548	97.3	Legal for Medical Only
## 1946	0.2514817855	86.9	Legal for Medical Only
## 1947	0.1065210516	80.8	Legal for Medical Only
## 1948	1.1759035149	125.8	Legal for Medical Only
## 1949	1.8080273710	152.4	Legal for Medical Only
## 1950	1.2091731915	127.2	Legal for Medical Only
## 1951	0.5865549573	101.0	Legal for Medical Only
## 1952	-0.3141027173	63.1	Legal for Medical Only
## 1953	-0.5374848319	53.7	Legal for Medical Only
## 1954	1.4230496842	136.2	Legal for Medical Only
## 1955	0.2823750567	88.2	Legal for Medical Only
## 1956	0.3631728428	91.6	Legal for Medical Only
## 1957	0.9263809401	115.3	Legal for Medical Only
## 1958	0.6792347708	104.9	Legal for Medical Only
## 1959	0.8170662883	110.7	Legal for Medical Only
## 1960	-0.1905296327	68.3	Legal for Medical Only
## 1961	0.3370323826	90.5	Legal for Medical Only
## 1962	0.1492963501	82.6	Legal for Medical Only
## 1963	0.2348469472	86.2	Legal for Medical Only
## 1964	-0.7893838121	43.1	Legal for Medical Only
## 1965	0.3679256537	91.8	Legal for Medical Only
## 1966	-1.7589572455	2.3	Legal for Medical Only
## 1967	0.9335101565	115.6	Legal for Medical Only
## 1968	0.7172572584	106.5	Legal for Medical Only
## 1969	0.2182121089	85.5	Legal for Medical Only
## 1970	0.9406393730	115.9	Legal for Medical Only
## 1971	0.3560436264	91.3	Legal for Medical Only
## 1972	0.7338920967	107.2	Legal for Medical Only
## 1973	-0.2713274188	64.9	Legal for Medical Only
## 1974	-0.5351084264	53.8	Legal for Medical Only
## 1975	0.7386449077	107.4	Legal for Medical Only
## 1976	0.0043356162	76.5	Legal for Medical Only
## 1977	1.0333191865	119.8	Legal for Medical Only
## 1978	-0.0194284385	75.5	Legal for Medical Only
## 1979	-0.0954734137	72.3	Legal for Medical Only
## 1980	-0.2523161750	65.7	Legal for Medical and Recreational
## 1981	-1.8112381660	0.1	Legal for Medical and Recreational
## 1982	-0.7988894340	42.7	Legal for Medical and Recreational
## 1983	-0.2974678790	63.8	Legal for Medical and Recreational
## 1984	-1.1838671208	26.5	Legal for Medical and Recreational
## 1985	-0.9913782774	34.6	Legal for Medical and Recreational
## 1986	-0.6871983767	47.4	Legal for Medical and Recreational
## 1987	-0.2214229038	67.0	Legal for Medical and Recreational
## 1988	-0.8464175435	40.7	Legal for Medical and Recreational
## 1989	0.3085155169	89.3	Legal for Medical and Recreational
## 1990	-1.8112381660	0.1	Legal for Medical and Recreational
## 1991	0.2704930293	87.7	Legal for Medical and Recreational
## 1992	0.5271448205	98.5	Legal for Medical and Recreational
## 1993	0.5152627931	98.0	Legal for Medical and Recreational
## 1994	-1.0175187376	33.5	Legal for Medical and Recreational
## 1995	0.0732513749	79.4	Legal for Medical and Recreational
## 1996	-0.9818726555	35.0	Legal for Medical and Recreational
## 1997	-1.4832942105	13.9	Legal for Medical and Recreational
## 1998	0.2277177308	85.9	Legal for Medical and Recreational

## 1999	-0.2546925805	65.6	Legal for Medical and Recreational
## 2000	-0.0027936002	76.2	Legal for Medical and Recreational
## 2001	-0.7228444589	45.9	Legal for Medical and Recreational
## 2002	-1.7565808401	2.4	Legal for Medical and Recreational
## 2003	-0.1477543341	70.1	Legal for Medical and Recreational
## 2004	0.6031897957	101.7	Legal for Medical and Recreational
## 2005	0.4487234398	95.2	Legal for Medical and Recreational
## 2006	1.6892070973	147.4	Legal for Medical Only
## 2007	0.5984369847	101.5	Legal for Medical Only
## 2008	1.4349317116	136.7	Legal for Medical Only
## 2009	0.1730604049	83.6	Legal for Medical Only
## 2010	0.3489144099	91.0	Legal for Medical Only
## 2011	1.2733361393	129.9	Legal for Medical Only
## 2012	2.8346345358	195.6	Legal for Medical Only
## 2013	0.6079426066	101.9	Legal for Medical Only
## 2014	1.5086002813	139.8	Legal for Medical Only
## 2015	0.7885494226	109.5	Legal for Medical Only
## 2016	0.7291392858	107.0	Legal for Medical Only
## 2017	0.5770493354	100.6	Legal for Medical Only
## 2018	2.6872973964	189.4	Legal for Medical Only
## 2019	2.6991794237	189.9	Legal for Medical Only
## 2020	2.6611569362	188.3	Legal for Medical Only
## 2021	2.2143927070	169.5	Legal for Medical Only
## 2022	0.3560436264	91.3	Legal for Medical Only
## 2023	1.2590777065	129.3	Legal for Medical Only
## 2024	0.2110828924	85.2	Legal for Medical Only
## 2025	2.0860668114	164.1	Legal for Medical Only
## 2026	2.0171510527	161.2	Legal for Medical Only
## 2027	1.4848362265	138.8	Legal for Medical Only
## 2028	2.3831174957	176.6	Legal for Medical Only
## 2029	-0.1026026301	72.0	Legal for Medical Only
## 2030	2.4330220107	178.7	Legal for Medical Only
## 2031	1.0333191865	119.8	Legal for Medical Only
## 2032	1.4990946594	139.4	Legal for Medical Only
## 2033	1.2804653558	130.2	Legal for Medical Only
## 2034	0.4320886015	94.5	Legal for Medical Only
## 2035	1.1402574328	124.3	Legal for Medical Only
## 2036	2.2714264384	171.9	Legal for Medical Only
## 2037	2.0646791622	163.2	Legal for Medical Only
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## 2039	1.1497630547	124.7	Legal for Medical Only
## 2040	0.8859820471	113.6	Legal for Medical Only
## 2041	1.8341678312	153.5	Legal for Medical Only
## 2042	0.3013863005	89.0	Legal for Medical Only
## 2043	0.2443525691	86.6	Legal for Medical Only
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## 2046	-0.1192374685	71.3	Legal for Medical Only
## 2047	1.7201003684	148.7	Legal for Medical Only
## 2048	1.2685833284	129.7	Legal for Medical Only
## 2049	-0.3093499064	63.3	Legal for Medical Only
## 2050	0.8788528306	113.3	Legal for Medical Only
## 2051	0.7196336639	106.6	Legal for Medical Only
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## 2053	0.0732513749	79.4	Legal for Medical Only
## 2054	0.6245774449	102.6	Legal for Medical Only
## 2055	1.5893980674	143.2	Legal for Medical Only
## 2056	1.8531790750	154.3	Legal for Medical Only
## 2057	0.6958696091	105.6	Legal for Medical Only
## 2058	0.6079426066	101.9	Legal for Medical Only
## 2059	1.9244712392	157.3	Legal for Medical Only
## 2060	2.3142017370	173.7	Legal for Medical Only
## 2061	1.2757125448	130.0	Legal for Medical Only
## 2062	1.1972911642	126.7	Legal for Medical Only
## 2063	0.6269538504	102.7	Legal for Medical Only
## 2064	1.6369261769	145.2	Legal for Medical Only
## 2065	1.3921564130	134.9	Legal for Medical Only
## 2066	-0.5707545085	52.3	Legal for Medical Only
## 2067	1.6868306918	147.3	Legal for Medical Only
## 2068	0.2538581910	87.0	Legal for Medical Only
## 2069	0.0304760764	77.6	Legal for Medical Only
## 2070	0.5509088752	99.5	Legal for Medical Only
## 2071	0.8360775321	111.5	Legal for Medical Only
## 2072	0.5414032533	99.1	Legal for Medical Only
## 2073	-0.5351084264	53.8	Legal for Medical Only
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## 2081	0.9168753182	114.9	Legal for Medical Only
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## 2092	1.9411060775	158.0	Legal for Medical Only
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## 2110	-0.5160971826	54.6	Legal for Medical Only
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## 2209	-1.7755920838	1.6	Legal for Medical Only
## 2210	-0.2451869586	66.0	Legal for Medical Only
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## 2212	-0.7656197574	44.1	Legal for Medical Only
## 2213	-0.4186645582	58.7	Legal for Medical Only
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## 2217	-0.3735128542	60.6	Legal for Medical Only
## 2218	-0.4994623443	55.3	Legal for Medical Only
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## 2247	0.2918806786	88.6	Legal for Medical Only
## 2248	-1.6757830539	5.8	Legal for Medical Only
## 2249	-0.9913782774	34.6	Legal for Medical Only
## 2250	0.6459650942	103.5	Legal for Medical Only
## 2251	-1.7589572455	2.3	Legal for Medical Only
## 2252	-0.2285521203	66.7	Legal for Medical Only
## 2253	0.7291392858	107.0	Legal for Medical Only
## 2254	0.2491053800	86.8	Legal for Medical Only
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## 2256	-0.0289340604	75.1	Legal for Medical Only
## 2257	-0.5968949687	51.2	Legal for Medical Only
## 2258	-0.3877712870	60.0	Legal for Medical Only
## 2259	-0.5683781030	52.4	Legal for Medical Only
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## 2261	-0.0764621699	73.1	Legal for Medical Only
## 2262	-0.8963220585	38.6	Legal for Medical Only
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## 2276	-0.4709454786	56.5	Legal for Medical Only
## 2277	-0.3022206900	63.6	Legal for Medical Only
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## 2281	-1.7969797331	0.7	Legal for Medical Only
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## 2593	1.5989036893	143.6	Legal for Medical Only
## 2594	-0.7038332151	46.7	Illegal
## 2595	-0.4828275060	56.0	Illegal
## 2596	-0.1311194958	70.8	Illegal
## 2597	-0.0907206028	72.5	Illegal
## 2598	-0.2570689859	65.5	Illegal
## 2599	-1.8064853550	0.3	Illegal
## 2600	0.1730604049	83.6	Illegal
## 2601	-1.0555412252	31.9	Illegal
## 2602	-0.2499397695	65.8	Illegal
## 2603	-0.1121082520	71.6	Illegal
## 2604	0.0304760764	77.6	Illegal
## 2605	0.1492963501	82.6	Illegal
## 2606	0.2134592979	85.3	Illegal
## 2607	-0.5184735881	54.5	Illegal
## 2608	-0.5826365359	51.8	Illegal
## 2609	0.2704930293	87.7	Illegal
## 2610	-0.3236083392	62.7	Illegal
## 2611	0.6911167982	105.4	Illegal
## 2612	0.1184030790	81.3	Illegal

### Interpretations

For this model, the baseline is State AK or Alaska, thus the intercept represents the mortality rate holding all other predictors at 0.

### Model Fit

### Map

3. Create at least one map that helps explain your findings (we will show you how to do this in the next session).

### Discussion

4. Write up your key results.

You will be marked on the quality of your `$$` code (including whether it runs for us without errors), how well you have justified your variable selection, the proper use of appropriate methods.