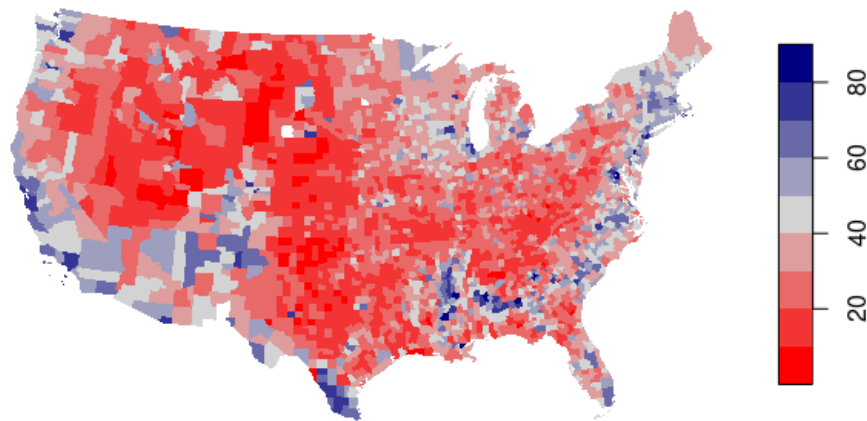


### Percent.Dem.2016



*2016 percent Democratic presidential  
vote aggregated by county*

In drawing electoral boundaries, the MAUP is intentionally used in a process called **gerrymandering**, where specific groups of voters are either "packed" into a small number of homogeneous districts or "cracked" across multiple districts in order to reduce the power and representation available to those groups.

There is no universally applicable solution to the MAUP. In cases where accuracy is not essential (such as with data exploration) or possible (such as with data that has been aggregated for privacy reasons), the uncertainty presented by the MAUP may be acceptable as long as caveats are provided along with the analysis. In other cases, more-sophisticated analytical approaches may be more appropriate.

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## Selected Column Information

The following information on the variables selected above is from the BRFSS *LLCP 2020 Codebook Report*. If you use more-current data or other variables, you will want to consult the current codebook provided on the BRFSS website linked above.

- ST: Two-digit USPS state name abbreviation
- FIPS: Two-digit FIPS code
- X\_URBSTAT:
  - 1: urban county
  - 2: rural county
- X\_AGE5YR: Age five year category
  - 1: 18 - 24
  - 2 - 13: Convert to start year with the formula  $15 + (n * 5)$
  - 14: Don't know/Refused/Missing
- DISPCODE: Final disposition
  - 1100: Completed interview
  - 1200: Partially completed interview
- NUMADULT: Number of adults in household

- SEXVAR: Sex of respondent
  - 1: Male
  - 2: Female
- GENHLTH: Would you say that in general your health is...
  - 1 (excellent) to 5 (poor)
  - 7: Don't know / not sure
  - 9: Refused
- PHYSHLTH: Now thinking about your physical health, which includes physical illness and injury, for how many days during the past 30 days was your physical health not good? (number of days)
  - 1 - 30: Number of days
  - 88: None
  - 77: Don't know/Not sure
  - 99: Refused
  - NA: Not asked or Missing
- MENTHLTH: Now thinking about your mental health, which includes stress, depression, and problems with emotions, for how many days during the past 30 days was your mental health not good? (number of days)
  - 1 - 30: Number of days
  - 88: None
  - 77: Don't know/Not sure
  - 99: Refused
  - NA: Not asked or Missing
- HLTHPLN1: Do you have any kind of health care coverage, including health insurance, prepaid plans such as HMOs, or government plans such as Medicare, or Indian Health Service?
  - 1: Yes
  - 2: No
  - 7: Don't know/Not Sure
  - 9: Refused
  - NA: Not asked or Missing
- EXERANY2: During the past month, other than your regular job, did you participate in any physical activities or exercises such as running, calisthenics, golf, gardening, or walking for exercise?
  - 1: Yes
  - 2: No
  - 7: Don't know/Not Sure
  - 9: Refused
  - NA: Not asked or Missing
- SLEPTIM1: On average, how many hours of sleep do you get in a 24-hour period? (avg hours)
  - 1 - 24: Number of hours
  - 77: Don't know/Not Sure
  - 99: Refused

- NA: Missing
- CVDINFR4: Ever told you had a heart attack, also called a myocardial infarction?
  - 1: Yes
  - 2: No
  - 7: Don't know/Not Sure
  - 9: Refused
  - NA: Not asked or Missing
- CVDCRHD4: Ever told you had angina or coronary heart disease?
  - 1: Yes
  - 2: No
  - 7: Don't know/Not Sure
  - 9: Refused
  - NA: Not asked or Missing
- CVDSTRK3: (Ever told) (you had) a stroke?
  - 1: Yes
  - 2: No
  - 7: Don't know/Not Sure
  - 9: Refused
  - NA: Not asked or Missing
- ASTHMA3: (Ever told) (you had) asthma?
  - 1: Yes
  - 2: No
  - 7: Don't know/Not Sure
  - 9: Refused
  - NA: Not asked or Missing
- CHCSCNCR: (Ever told) (you had) skin cancer?
  - 1: Yes
  - 2: No
  - 7: Don't know/Not Sure
  - 9: Refused
  - NA: Not asked or Missing
- CHCOCNCR: (Ever told) (you had) any other types of cancer?
  - 1: Yes
  - 2: No
  - 7: Don't know/Not Sure
  - 9: Refused
  - NA: Not asked or Missing

- CHCCOPD2: (Ever told) (you had) chronic obstructive pulmonary disease, C.O.P.D., emphysema or chronic bronchitis?
  - 1: Yes
  - 2: No
  - 7: Don't know/Not Sure
  - 9: Refused
  - NA: Not asked or Missing
- HAVARTH4: (Ever told) (you had) some form of arthritis, rheumatoid arthritis, gout, lupus, or fibromyalgia? (Arthritis diagnoses include: rheumatism, polymyalgia rheumatica; osteoarthritis (not osteoporosis); tendonitis, bursitis, bunion, tennis elbow; carpal tunnel syndrome, tarsal tunnel syndrome; joint infection, etc.)
  - 1: Yes
  - 2: No
  - 7: Don't know/Not Sure
  - 9: Refused
  - NA: Not asked or Missing
- ADDEPEV3: (Ever told) (you had) a depressive disorder (including depression, major depression, dysthymia, or minor depression)?
  - 1: Yes
  - 2: No
  - 7: Don't know/Not Sure
  - 9: Refused
  - NA: Not asked or Missing
- CHCKDNY2: Not including kidney stones, bladder infection or incontinence, were you ever told you had kidney disease?
  - 1: Yes
  - 2: No
  - 7: Don't know/Not Sure
  - 9: Refused
  - NA: Not asked or Missing
- DIABETE4: (Ever told) (you had) diabetes?
  - 1: Yes
  - 2: Yes when pregnant
  - 3: No
  - 4: No but pre-diabetic or borderline
  - 7: Don't know/Not Sure
  - 9: Refused
  - NA: Not asked or Missing
- DIABAGE3: How old were you when you were told you had diabetes?
  - 1 - 96: Age in years

- 97: 97 years of age or older
- 98: Don't know / Not sure
- 99: Refused
- NA: Not asked or missing
- LASTDEN4: Including all types of dentists, such as orthodontists, oral surgeons, and all other dental specialists, as well as dental hygienists, how long has it been since you last visited a dentist or a dental clinic for any reason?
  - 1: Within the past year (anytime less than 12 months ago)
  - 2: Within the past 2 years (1 year but less than 2 years ago)
  - 3: Within the past 5 years (2 years but less than 5 years ago)
  - 4: 5 or more years ago
  - 7: Don't know/Not sure
  - 8: Never
  - 9: Refused
  - NA: Missing
- RMVTETH4: Not including teeth lost for injury or orthodontics, how many of your permanent teeth have been removed because of tooth decay or gum disease? (1 one to five, 2 six or more, 3 all, 8 none)
  - 1: 1 to 5
  - 2: 6 or more, but not all
  - 3: All
  - 7: Don't know/Not sure
  - 8: None
  - 9: Refused
  - NA: Not asked or Missing
- MARITAL: Are you (marital status)
  - 1: Married
  - 2: Divorced
  - 3: Widowed
  - 4: Separated
  - 5: Never married
  - 6: A member of an unmarried couple
  - 9: Refused
  - NA: Not asked or Missing
- EDUCA: What is the highest grade or year of school you completed?
  - 1: Never attended school or only kindergarten
  - 2: Grades 1 through 8 (Elementary)
  - 3: Grades 9 through 11 (Some high school)
  - 4: Grade 12 or GED (High school graduate)
  - 5: College 1 year to 3 years (Some college or technical school)

- 6: College 4 years or more (College graduate)
- 9: Refused
- NA: Not asked or Missing
- RENTHOM1: Do you own or rent your home?
  - 1: Own
  - 2: Rent
  - 3: Other arrangement
  - 7: Don't know/Not Sure
  - 9: Refused
  - NA: Not asked or Missing
- VETERAN3: Have you ever served on active duty in the United States Armed Forces, either in the regular military or in a National Guard or military reserve unit?
  - 1: Yes
  - 2: No
  - 7: Don't know/Not Sure
  - 9: Refused
  - NA: Not asked or Missing
- EMPLOY1: Are you currently...?
  - 1: Employed for wages
  - 2: Self-employed
  - 3: Out of work for 1 year or more
  - 4: Out of work for less than 1 year
  - 5: A homemaker
  - 6: A student
  - 7: Retired
  - 8: Unable to work
  - 9: Refused
  - NA: Not asked or Missing
- CHILDREN: How many children less than 18 years of age live in your household?
  - 1 - 87: Number of children
  - 88: None
  - 99: Refused
  - NA: Not asked or Missing
- INCOME2: Is your annual household income from all sources?
  - 1: Less than \$10,000
  - 2: \$10,000 to less than \$15,000
  - 3: \$15,000 to less than \$20,000
  - 4: \$20,000 to less than \$25,000

- 5: \$25,000 to less than \$35,000
- 6: \$35,000 to less than \$50,000
- 7: \$50,000 to less than \$75,000)
- 8: \$75,000 or more
- 77: Don't know/Not sure
- 99: Refused
- NA: Not asked or Missing
- PREGNANT: To your knowledge, are you now pregnant?
  - 1: Yes
  - 2: No
  - 7: Don't know/Not Sure
  - 9: Refused
  - NA: Not asked or Missing
- WEIGHT2: About how much do you weigh without shoes?
  - 50 - 776: Weight (pounds)
  - 7777: Don't know/Not sure
  - 9023 - 9352 Weight (kilograms)
  - 9999:Refused
  - NA: Not asked or Missing
- HTIN4: About how tall are you without shoes?
  - 36 - 95: Height in inches
  - NA: Don't know/Refused/Not asked or Missing
- DEAF: Are you deaf or do you have serious difficulty hearing?
  - 1: Yes
  - 2: No
  - 7: Don't know/Not Sure
  - 9: Refused
  - NA: Not asked or Missing
- BLIND: Are you blind or do you have serious difficulty seeing, even when wearing glasses?
  - 1: Yes
  - 2: No
  - 7: Don't know/Not Sure
  - 9: Refused
  - NA: Not asked or Missing
- SMOKDAY2: Do you now smoke cigarettes every day, some days, or not at all?
  - 1: Current smoker - now smokes every day
  - 2: Current smoker - now smokes some days

- 3: Not at all
- 7: Don't know
- 9: Refused
- NA: Not asked or missing
- STOPSMK2: During the past 12 months, have you stopped smoking for one day or longer because you were trying to quit smoking?
  - 1: Yes
  - 2: No
  - 7: Don't know/Not Sure
  - 9: Refused
  - NA: Not asked or Missing
- AVEDRNK3: One drink is equivalent to a 12-ounce beer, a 5-ounce glass of wine, or a drink with one shot of liquor. During the past 30 days, on the days when you drank, about how many drinks did you drink on the average? (A 40 ounce beer would count as 3 drinks, or a cocktail drink with 2 shots would count as 2 drinks.)
  - 1 - 76: Number of drinks
  - 88: None
  - 77: Don't know/Not sure
  - 99: Refused
  - NA: Not asked or Missing
- DRNK3GE5: Considering all types of alcoholic beverages, how many times during the past 30 days did you have 5 or more drinks for men or 4 or more drinks for women on an occasion? (binge drinking in past 30 days)
  - 1 - 76: Number of times
  - 88: None
  - 77: Don't know/Not Sure
  - 99: Refused
  - NA: Not asked or Missing
- SEATBELT: How often do you use seat belts when you drive or ride in a car? Would you say—
  - 1: Always
  - 2: Nearly always
  - 3: Sometimes
  - 4: Seldom
  - 5: Never
  - 7: Don't know/Not sure
  - 8: Never drive or ride in a car
  - 9: Refused
  - NA: Not asked or Missing
- HADMAM: Have you ever had a mammogram?
  - 1: Yes
  - 2: No



- 7: Don't know/Not Sure
- 9: Refused
- NA: Not asked or Missing
- PSATEST1: Have you ever had a P.S.A. test?
  - 1: Yes
  - 2: No
  - 7: Don't know/Not Sure
  - 9: Refused
  - NA: Not asked or Missing
- COLNSCPY: Have you ever had a colonoscopy?
  - 1: Yes
  - 2: No
  - 7: Don't know/Not Sure
  - 9: Refused
  - NA: Not asked or Missing
- HIVTST7: Including fluid testing from your mouth, but not including tests you may have had for blood donation, have you ever been tested for H.I.V?
  - 1: Yes
  - 2: No
  - 7: Don't know/Not Sure
  - 9: Refused
  - NA: Not asked or Missing
- HIVRISK5: I am going to read you a list. When I am done, please tell me if any of the situations apply to you. You do not need to tell me which one. You have injected any drug other than those prescribed for you in the past year. You have been treated for a sexually transmitted disease or STD in the past year. You have given or received money or drugs in exchange for sex in the past year.
  - 1: Yes
  - 2: No
  - 7: Don't know/Not Sure
  - 9: Refused
  - NA: Not asked or Missing
- X\_LLCPWT (landline, cellphone weighting): This is a weighting factor that can be assigned to each response to compensate for uneven geographic coverage of survey administration (noncoverage) and lack of responsiveness from some segments of the population (nonresponse). See *Weighting the BRFSS Data* ([CDC 2020](#)) for more details.