



New York State Behavioral Risk Factor Surveillance System Brief

The Behavioral Risk Factor Surveillance System (BRFSS) is an annual statewide telephone survey of adults developed by the Centers for Disease Control and Prevention conducted in all 50 States, the District of Columbia, and several United States Territories. The New York Behavioral Risk Factor Surveillance System is administered by the New York State Department of Health to provide statewide and regional information on behaviors, risk factors, and use of preventive health services related to the leading causes of chronic and infectious diseases, disability, injury, and death.

Cannabis Use New York State Adults, 2021



Introduction

Cannabis sativa, also known as weed, pot, marijuana, or hash, is a plant that can have psychoactive characteristics and is consumed recreationally and for medical purposes. The cannabis plant has hundreds of chemical compounds, including tetrahydrocannabinol (THC), which is psychoactive (causes a high), as well as cannabidiol (CBD) which is not psychoactive.¹ Cannabis is commonly consumed in the United States with an estimated 55 million people consuming it in 2020.² The New York State (NYS) Department of Health (DOH) established a regulated medical cannabis program in November 2016, and on March 31, 2021, cannabis consumption became legal for individuals aged 21 years and older.³ Methods or modes of cannabis consumption include smoking (joints, blunts, or using bong), vaping (using electronic vaporizing devices), and mixed or infused into foods or drinks (called edibles). There is scientific evidence that cannabis consumption can be associated with short- and long-term dangers, including hallucinations, delusions, poor memory, depression, and poor birth outcomes.⁴⁻¹⁰ The New York State Department of Health is committed to monitoring trends, reporting on the public health risks, and understanding the overall impact of cannabis consumption on the health of New Yorkers.

Health Equity

Cannabis-related arrests, convictions, and other law enforcement practices have disproportionately targeted people of color, affecting not only individuals, but families and communities.¹¹ The New York State legislation established a robust social and economic equity program to incentivize participation in the cannabis industry for individuals disproportionately impacted by cannabis prohibition. New York State Department of Health remains committed to monitoring and reducing the burden of cannabis consumption and addressing cannabis-related health disparities to promote safer consumption, prevent underage consumption, and promote and facilitate safe storage practices.

Key Findings

- In NYS, 12.6% of adults report consuming cannabis in the past 30 days. Just over half of the adults who consume cannabis, or 6.7% of all adults, consume it less than 20 days per month, while an estimated 5.9% of adults consume cannabis daily or near daily (20 or more days per month).
- The most common mode of cannabis consumption by NYS adults aged 18 years and older is smoking (73.3%), followed by eating (14.2%), and vaporizing (8.3%).
- Among cannabis consumers, nearly half (49%) do so for non-medical reasons only, 38% for medical and non-medical reasons, and the remaining 13% consume for medical reasons only.
- The prevalence of cannabis consumption varies by county with estimated percentages ranging from 1.7% to 25.1%.
- Both non-daily cannabis consumption and daily or near daily cannabis consumption are significantly higher among individuals who report recent problems with stress, depression, or emotions (i.e., frequent mental distress); have at least one type of disability; are in the lesbian, gay, bisexual, transgender, queer/questioning and intersex communities; currently smoke tobacco; currently use e-cigarettes; and report binge or heavy drinking.

Figure 1. Prevalence of cannabis consumption among adults (18+ years) in New York, Behavioral Risk Factor Surveillance System, 2018-2021

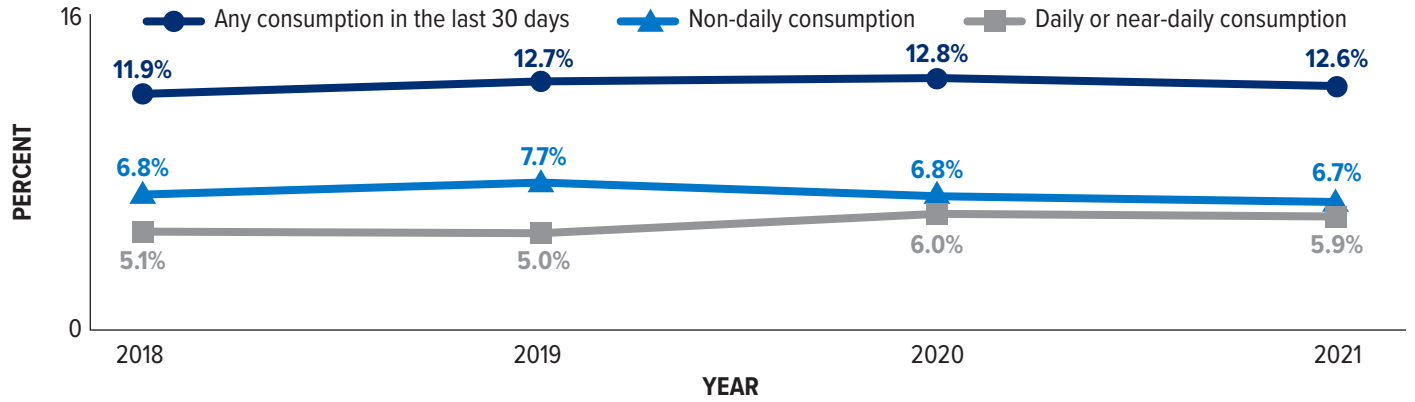
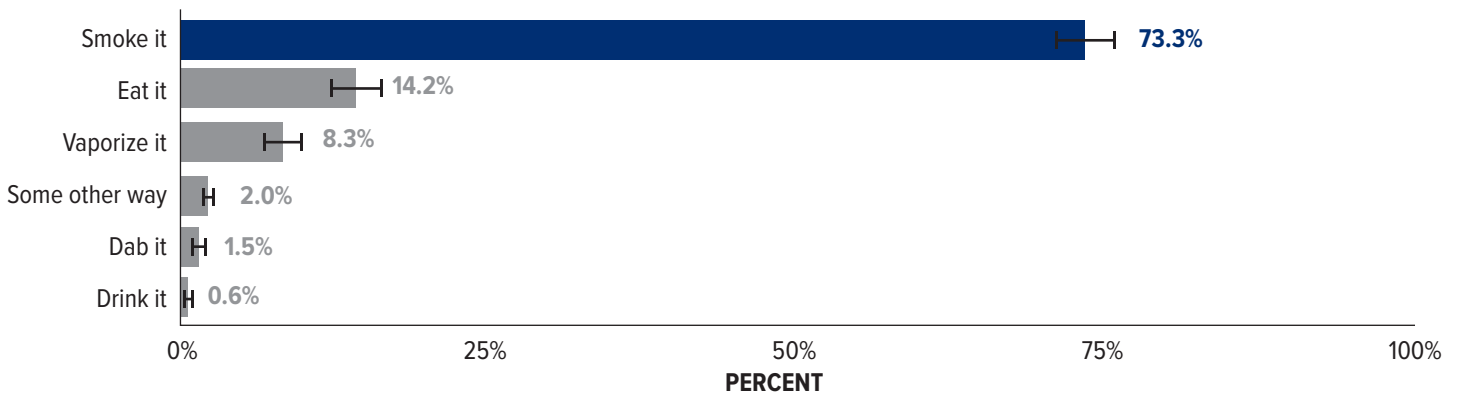


Figure 2. Mode of cannabis consumption among adults (18+ years) in New York, Behavioral Risk Factor Surveillance System, 2021



Note: Error bars represent 95% confidence intervals

Figure 3. Reasons for cannabis consumption among adults (18+ years) in New York, Behavioral Risk Factor Surveillance System, 2021

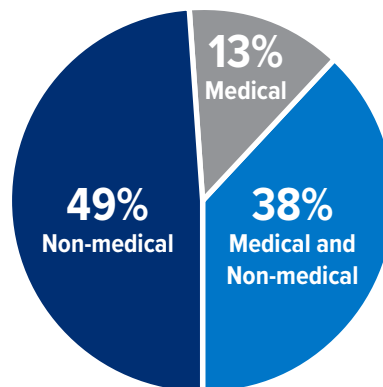
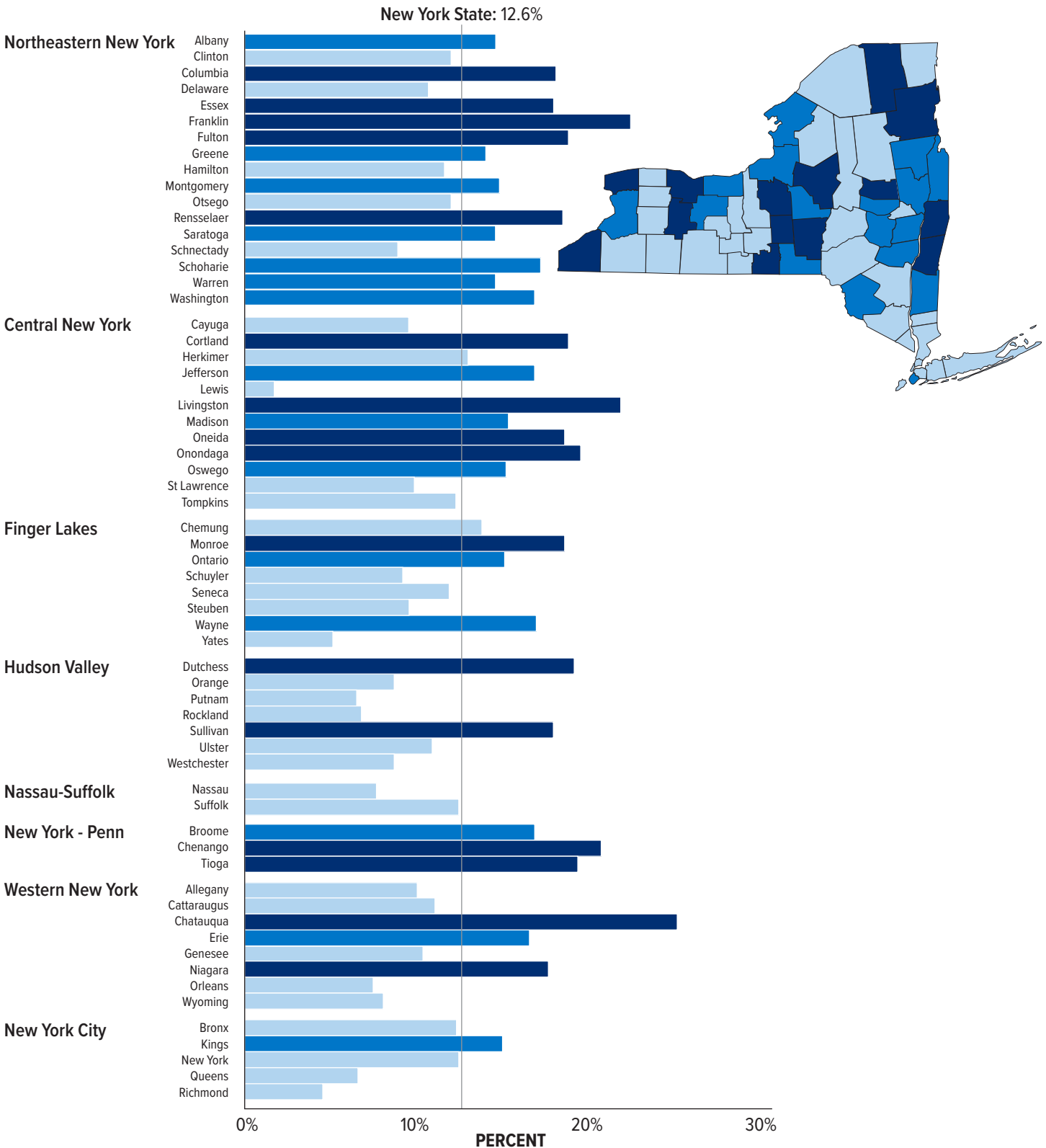


Figure 4. Prevalence of any cannabis consumption in the past 30 days among adults (18+ years) in New York by county, Behavioral Risk Factor Surveillance System, 2021

Counties are shaded based on quartile distribution

Q1 and Q2: 0% – <13.9% Q3: 13.9% – <17.7% Q4: 17.7%+



The three levels of shading in the map above are based on the rank order of the estimated percentage of adults who report consuming cannabis in each county and do not represent statistical differences between counties.

Table 1. Cannabis consumption among adults^a in New York, Behavioral Risk Factor Surveillance System, 2021

| | Any Consumption in past 30 days | | Non-Daily Consumption (1-19 days past month) | | Daily or Near-Daily Consumption (20+ days past month) | |
|---|---------------------------------|---------------------|--|----------------|---|----------------|
| | % ^b | 95% CI ^b | % | 95% CI | % | 95% CI |
| New York State [n=39,095] | 12.6 | 11.4-13.7 | 6.7 | 5.8-7.6 | 5.9 | 5.1-6.6 |
| Sex | | | | | | |
| Male ^c | 15.0 | 13.5-17.2 | 8.1 | 6.7-9.5 | 7.3 | 6.0-8.6 |
| Female | 10.0 | 8.6-11.4 | 5.4 | 4.3-6.6 | 4.5 | 3.6-5.4 |
| Sexual Orientation and Gender Identity | | | | | | |
| Lesbian, gay, bisexual, transgender, queer/questioning and intersex | 31.1 | 25.1-37.0 | 17.5 | 12.7-22.3 | 13.6 | 9.2-18.0 |
| Heterosexual/straight and cisgender ^d | 11.4 | 10.2-12.5 | 6.0 | 5.1-6.9 | 5.4 | 4.6-6.2 |
| Age (Years) | | | | | | |
| 18-24 | 24.6 | 19.0-30.3 | 16.0 | 11.0-21.0 | 8.7 | 5.2-12.1 |
| 25-34 | 22.0 | 18.2-25.8 | 10.5 | 7.8-13.3 | 11.5 | 8.6-14.3 |
| 35-44 | 14.1 | 11.5-16.7 | 7.2 | 5.3-9.1 | 6.9 | 5.1-8.8 |
| 45-54 | 8.6 | 6.7-10.5 | 4.2 | 2.9-5.6 | 4.4 | 3.0-5.8 |
| 55-64 | 9.2 | 7.4-11.0 | 4.8 | 3.5-6.0 | 4.5 | 3.1-5.8 |
| 65+ | 3.7 | 2.8-4.6 | 2.1 | 1.5-2.6 | 1.6 | 1.0-2.3 |
| Race/Ethnicity | | | | | | |
| Black, non-Hispanic | 17.7 | 13.8-21.6 | 9.2 | 6.1-12.2 | 8.5 | 5.7-11.3 |
| Hispanic | 10.0 | 7.5-12.5 | 4.8 | 3.0-6.6 | 5.2 | 3.4-7.0 |
| Multiracial, non-Hispanic | 20.9 | 12.0-29.9 | 12.6 | 4.8-20.4 | 8.4 | 2.9-13.9 |
| White, non-Hispanic | 13.2 | 11.6-14.7 | 7.4 | 6.2-8.6 | 5.8 | 4.7-6.8 |
| All other race groups combined ^e | 5.7 | 3.6-7.8 | 2.9 | 1.4-4.3 | 2.8 | 1.4-4.3 |
| Annual Household Income | | | | | | |
| Less than \$25,000 | 16.2 | 12.6-19.7 | 8.3 | 5.3-11.2 | 7.9 | 5.6-10.2 |
| \$25,000-\$49,999 | 13.7 | 11.3-16.0 | 6.5 | 4.8-8.1 | 7.2 | 5.5-9.0 |
| \$50,000 and greater | 11.7 | 10.1-13.4 | 6.9 | 5.6-8.2 | 4.8 | 3.8-5.9 |
| Missing ^f | 11.0 | 8.5-13.6 | 5.7 | 3.8-7.6 | 5.3 | 3.5-7.1 |
| Educational Attainment | | | | | | |
| Less than high school | 11.0 | 7.7-14.3 | 4.7 | 2.3-7.2 | 6.3 | 3.9-8.6 |
| High school or GED | 14.9 | 12.3-17.5 | 7.4 | 5.5-9.3 | 7.5 | 5.6-9.5 |
| Some post-high school | 13.6 | 11.4-15.8 | 7.1 | 5.4-8.8 | 6.5 | 5.0-8.0 |
| College graduate | 10.6 | 8.9-12.2 | 6.6 | 5.1-8.0 | 4.0 | 3.1-4.9 |
| Disability^g | | | | | | |
| Yes | 15.2 | 13.0-17.4 | 7.5 | 5.8-9.3 | 7.6 | 6.1-9.2 |
| No | 11.5 | 10.2-12.8 | 6.2 | 5.2-7.3 | 5.3 | 4.3-6.2 |
| Region | | | | | | |
| New York City | 12.8 | 10.7-14.9 | 7.5 | 5.8-9.2 | 5.3 | 3.9-6.8 |
| New York State exclusive of New York City | 12.4 | 11.1-13.8 | 6.3 | 5.3-7.3 | 6.1 | 5.2-7.1 |
| Employment status | | | | | | |
| Employed | 13.9 | 12.3-15.6 | 7.5 | 6.2-8.8 | 6.4 | 5.4-7.5 |
| Unemployed | 19.2 | 14.1-24.2 | 8.8 | 5.4-12.3 | 10.3 | 6.2-14.5 |
| Not in labor force | 9.1 | 7.6-10.6 | 5.0 | 3.9-6.1 | 4.1 | 3.1-5.2 |
| Health care coverage type | | | | | | |
| Private | 12.8 | 11.1-14.5 | 7.7 | 6.3-9.1 | 5.1 | 4.1-6.1 |
| Medicare | 6.6 | 5.1-8.0 | 4.1 | 2.9-5.3 | 2.5 | 1.7-3.2 |
| Medicaid | 17.9 | 14.3-21.5 | 7.3 | 4.8-9.8 | 10.6 | 7.8-13.3 |
| Other insurance ^h | 14.7 | 10.8-18.6 | 7.4 | 4.6-10.3 | 7.3 | 4.4-10.2 |
| No coverage | 17.9 | 10.2-25.6 | 5.5 | 0.1-10.84 | 12.5 | 6.1-18.8 |

Table 1. Cannabis consumption among adults^a in New York, Behavioral Risk Factor Surveillance System, 2021

| | Any Consumption in past 30 days | | Non-Daily Consumption (1-19 days past month) | | Daily or Near-Daily Consumption (20+ days past month) | |
|---|---------------------------------|---------------------|--|----------------|---|----------------|
| | % ^b | 95% CI ^b | % | 95% CI | % | 95% CI |
| New York State [n=39,095] | 12.6 | 11.4-13.7 | 6.7 | 5.8-7.6 | 5.9 | 5.1-6.6 |
| Frequent mental distressⁱ | | | | | | |
| Yes | 29.0 | 24.5-33.5 | 13.9 | 10.1-17.8 | 15.1 | 11.9-18.3 |
| No | 10.1 | 9.0-11.2 | 5.6 | 4.7-6.4 | 4.5 | 3.7-5.3 |
| Current smoking^j | | | | | | |
| Yes | 29.3 | 25.0-33.6 | 10.3 | 7.8-12.9 | 19.0 | 15.1-22.8 |
| No | 10.2 | 9.1-11.4 | 6.2 | 5.2-7.2 | 4.0 | 3.3-4.7 |
| Current E-cigarette use | | | | | | |
| Every day or some days | 48.2 | 40.5-55.9 | 25.0 | 17.9-32.2 | 23.1 | 16.5-29.8 |
| Not at all or never | 10.8 | 9.7-11.8 | 5.8 | 4.9-6.6 | 4.9 | 4.2-5.7 |
| Binge or heavy drinking^k | | | | | | |
| Yes | 31.9 | 27.6-36.1 | 17.6 | 14.0-21.2 | 14.3 | 11.0-17.5 |
| No | 9.0 | 7.9-10.0 | 4.8 | 4.0-5.6 | 4.2 | 3.5-4.9 |

Notes: ^aRows are suppressed when there are less than 50 observations, a confidence interval with a half-width of greater than 10, or when the standard relative error is greater than 0.30. ^b% = weighted percentage; CI = confidence interval; When comparing estimates, the 95% confidence interval (95% CI) provides the statistical range containing the true population percentage with a 95% probability. The width of the confidence interval is influenced by the number of residents surveyed. Although a 95% confidence interval is not a test of statistical significance, estimates whose 95% confidence intervals do not overlap can be considered significantly different. ^cBased on respondent's sex at birth, or current gender identity at time of interview if sex at birth is missing. ^dHeterosexual or straight are people who are sexually oriented toward people of the opposite, usually binary, gender; Cisgender is a person whose current gender corresponds to the sex they were assigned at birth. ^eAlaska Native, Native Hawaiian or other Pacific Islander, Asian or Other. The response sizes for each individual category did not meet stability standards. ^f"Missing" category included because more than 10% of the sample did not report income. ^gAll respondents who report having at least one type of disability (cognitive, mobility, vision, self-care, independent living, or hearing). ^hIncludes TRICARE, VA/Military, and Indian Health Services. ⁱAll respondents who report problems with stress, depression, or emotions on at least 14 of the previous 30 days. ^jAll respondents who have smoked at least 100 cigarettes in their lifetime and currently smoke on at least some days. ^kBinge drinking is defined as consuming four or more drinks for women and five or more drinks for men on a single occasion in the past month; heavy drinking is defined as eight or more drinks per week for women and fifteen or more drinks per week for men.



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Behavioral Risk Factor Surveillance System Questions



Cannabis

- During the past 30 days, on how many days did you use marijuana or cannabis?
- During the past 30 days, which one of the following ways did you use marijuana the most often? Did you usually...
 - Smoke it (for example, in a joint, bong, pipe, or blunt).
 - Eat it (for example, in brownies, cakes, cookies, or candy)
 - Drink it (for example, in tea, cola, or alcohol)
 - Vaporize it (for example, in an e-cigarette-like vaporizer or another vaporizing device)
 - Dab it (for example, using a dabbing rig, knife, or dab pen), or
 - Use it some other way.
 - Don't know/Not sure
- When you used marijuana or cannabis during the past 30 days, was it usually:
 - For medical reasons
 - For non-medical reasons
 - For both medical and non-medical reasons

Limitations



- BRFSS data are cross-sectional, and causality cannot be inferred.
- BRFSS cannabis-related data is based on self-report which is subject to social desirability and recall bias.

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Program Contributions



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