# **BRFSS** Brief

Number 1914

The Behavioral Risk Factor Surveillance System (BRFSS) is an annual statewide telephone survey of adults developed by the Centers for Disease Control and Prevention and administered by the New York State Department of Health. The BRFSS is designed to provide information on behaviors, risk factors, and utilization of preventive services related to the leading causes of chronic and infectious diseases, disability, injury, and death among the noninstitutionalized, civilian population aged 18 years and older.

# Fruit and Vegetable Consumption

New York State Adults, 2017

### **Introduction and Key Findings**

Consuming a diet rich in fruits and vegetables every day is an important part of a healthy lifestyle. The 2015-2020 Dietary Guidelines for Americans recommend a healthy eating pattern that includes a variety of vegetables from all of the subgroups – dark green, red and orange, legumes (beans and peas) and starchy. Fruits are also recommended in a healthy eating pattern – especially whole fruits.¹ Fruits and vegetables are excellent sources of essential vitamins, minerals, fiber, and numerous phytochemicals. Substituting fruits and vegetables for higher calorie foods can support a healthy weight, meet nutrient needs, and help reduce the risk of stroke, high blood pressure, diabetes, and some cancers.¹.².³

The National Fruit and Vegetable Alliance National Action Plan 2015 Report Card indicates that per capita fruit and vegetable consumption (excluding fried potatoes) has declined 5% between 2009 and 2014, for an average of 1.68 cups per day.<sup>4</sup> The Healthy U.S.-Style Eating Pattern at the 2,000-calorie level recommends 2½ cup-equivalents of vegetables and 2 cup-equivalents of fruit per day.

The State Indicator Report for Consumption of Fruits and Vegetables from 2015 shows that the median daily intake frequency for adults in New York State is 1.0 for fruit and 1.7 for vegetables.<sup>5</sup> The New York State Prevention Agenda 2019-2024 established a goal to decrease the percentage of adults who consume less than one fruit and less than one vegetable per day to 29.6%.<sup>6</sup>

#### **Key Findings**

One in three adults in NYS (33.5%) consume fruit less than one time per day, and one in five (20.3%) consume vegetables less than one time per day. Daily consumption of fruits is lower among males, adults with than less than a high school degree, and those living with disability. Daily consumption of vegetables is lower among males, adults 18 to 24 years of age, Hispanic adults, non-Hispanic Black adults, adults with less than a high school degree, and those living with disability.

## **BRFSS** questions

Now think about the foods you ate or drank during the past month, that is, the past 30 days, including meals and snacks.

- Not including juices, how often did you eat fruit? You can tell me times per day, times per week or times per month.
- 2. Not including fruit-flavored drinks or fruit juices with added sugar, how often did you drink 100% fruit juice such as apple or orange juice?
- 3 How often did you eat a green leafy or lettuce salad, with or without other vegetables

- 4. How often did you eat any kind of fried potatoes, including French fries, home fries, or hash browns?
- 5. How often did you eat any other kind of potatoes, or sweet potatoes, such as baked, boiled, mashed potatoes, or potato salad?
- 6. Not including lettuce salads and potatoes, how often did you eat other vegetables

Total daily fruit consumption was calculated based on responses to questions 1 and 2, and total daily vegetables consumption was based on questions 3-6. Responses were combined to create a composite measure of average.

Figure 1. Percentage of adults in New York State and the U.S. who report consuming fruits and vegetables less than one time daily, BRFSS 2017

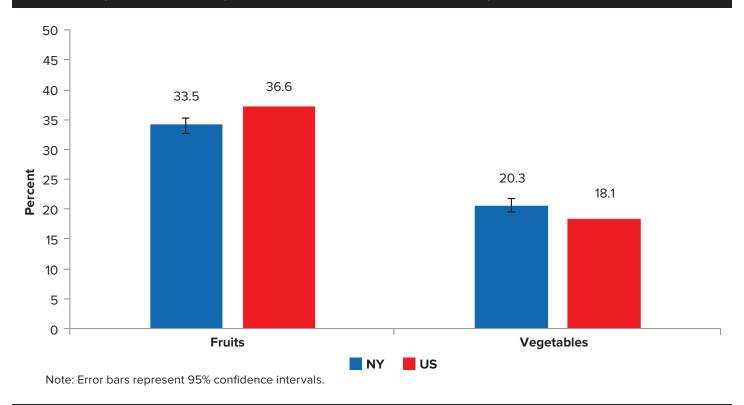
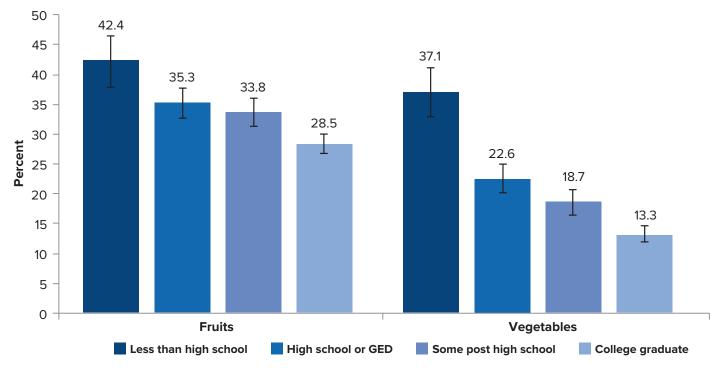


Figure 2. Percentage of adults in New York State who report consuming fruits and vegetables less than one time daily, by education attainment, BRFSS 2017



Note: Error bars represent 95% confidence intervals.

# Fruit and vegetable consumption among New York State adults, 2017 BRFSS

	Percentage	Percentage who report consuming fruits and vegetables less than one time daily			
	F	Fruits		Vegetables	
	% <sup>a</sup>	95% Ci <sup>a</sup>	%	95% CI	
New York State (NYS) [n=12,249]	33.5	32.2-34.7	20.3	19.2-21.4	
Sex					
Male	36.2	34.3-38.0	22.8	21.2-24.5	
Female	31.0	29.3-32.7	18.0	16.6-19.5	
Age (years)					
18-24	37.5	32.9-42.1	28.5	24.0-33.0	
25-34	34.9	31.7-38.2	20.3	17.7-23.0	
35-44	33.8	30.5-37.1	19.4	16.6-22.1	
45-54	36.3	33.4-39.3	19.7	17.3-22.1	
55-64	34.4	31.6-37.2	17.7	15.5-20.0	
65+	26.8	24.6-29.0	19.2	17.1-21.3	
Race/ethnicity					
White non-Hispanic	31.8	30.3-33.4	15.2	14.0-16.5	
Black non-Hispanic	37.6	33.9-41.2	28.0	24.6-31.5	
Hispanic	37.9	34.8-41.0	37.2	33.9-40.4	
Other non-Hispanic	30.9	26.4-35.4	13.2	10.2-16.3	
Annual household income					
<\$25,000	38.4	35.8-41.1	30.7	28.1-33.3	
\$25,000-\$49,999	34.2	31.3-37.1	19.3	16.9-21.6	
\$50,000 and greater	30.6	28.8-32.4	13.8	12.4-15.2	
Missing <sup>b</sup>	33.0	29.4-36.5	25.9	22.4-29.5	
Education					
Less than high school	42.4	38.2-46.6	37.1	33.0-41.3	
High school or GED	35.3	32.7-37.9	22.6	20.3-25.0	
Some post high school	33.8	31.3-36.2	18.7	16.6-20.8	
College graduate	28.5	26.8-30.2	13.3	12.1-14.6	
Disability <sup>c</sup>					
Yes	36.9	34.3-39.5	26.2	23.7-28.7	
No	32.5	31.1-33.9	18.6	17.4-19.8	
Weight status categories					
Neither obese nor overweight	31.0	28.9-33.0	18.3	16.5-20.1	
Overweight	33.3	31.3-35.4	20.7	18.8-22.5	
Obese	37.1	34.5-39.6	22.3	20.1-24.6	
Region					
New York City (NYC)	33.6	31.6-35.6	24.2	22.4-26.1	
NYS exclusive of NYC	33.4	31.8-35.0	17.5	16.2-18.8	

<sup>&</sup>lt;sup>a</sup> % = weighted percentage; CI = confidence interval

<sup>&</sup>lt;sup>b</sup> "Missing" category included because more than 10% of the sample did not report income.

<sup>&</sup>lt;sup>c</sup> All respondents who reported having at least one type of disability (cognitive, mobility, vision, self-care, or independent living or deafness)

#### References

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- New York State Prevention Agenda Preventing Chronic Diseases Action Plan available at: https://health.ny.gov/prevention/prevention\_ agenda/2019-2024/chr.htm

# **Program Contributions**

New York State Department of Health Bureau of Chronic Disease Evaluation and Research Bureau of Chronic Disease Control

#### **Order Information**

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