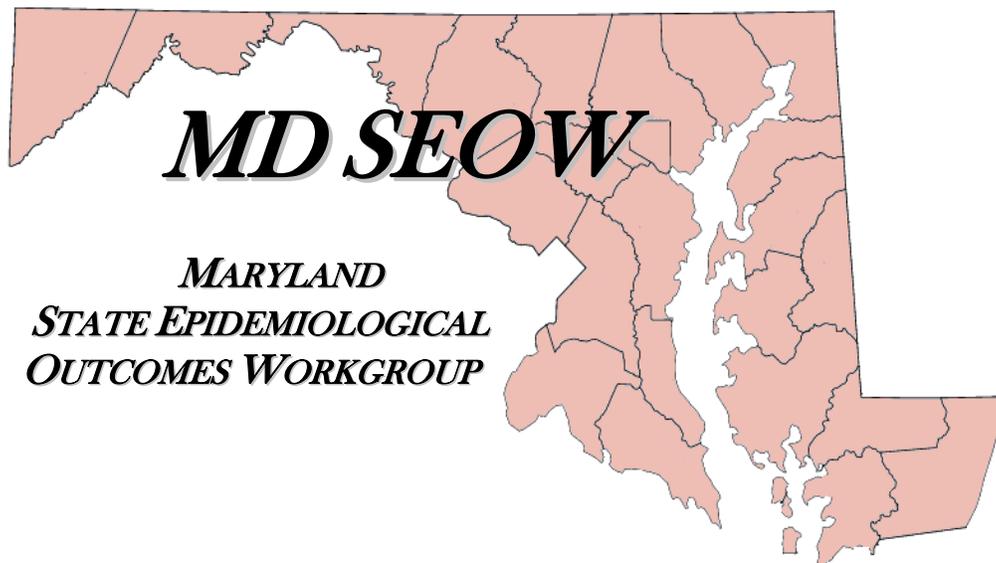


# Maryland Compendium of Cross County Indicators on Underage Drinking

November 2008



*A partnership between*



*and*



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The MD SEOW was created in March 2006 with funding from the Substance Abuse and Mental Health Services Administration Center for Substance Abuse Prevention (CSAP) to the MD ADAA. Views expressed within this document are those of the authors and do not necessarily represent the official position or policies of CSAP.

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*Acknowledgements:*

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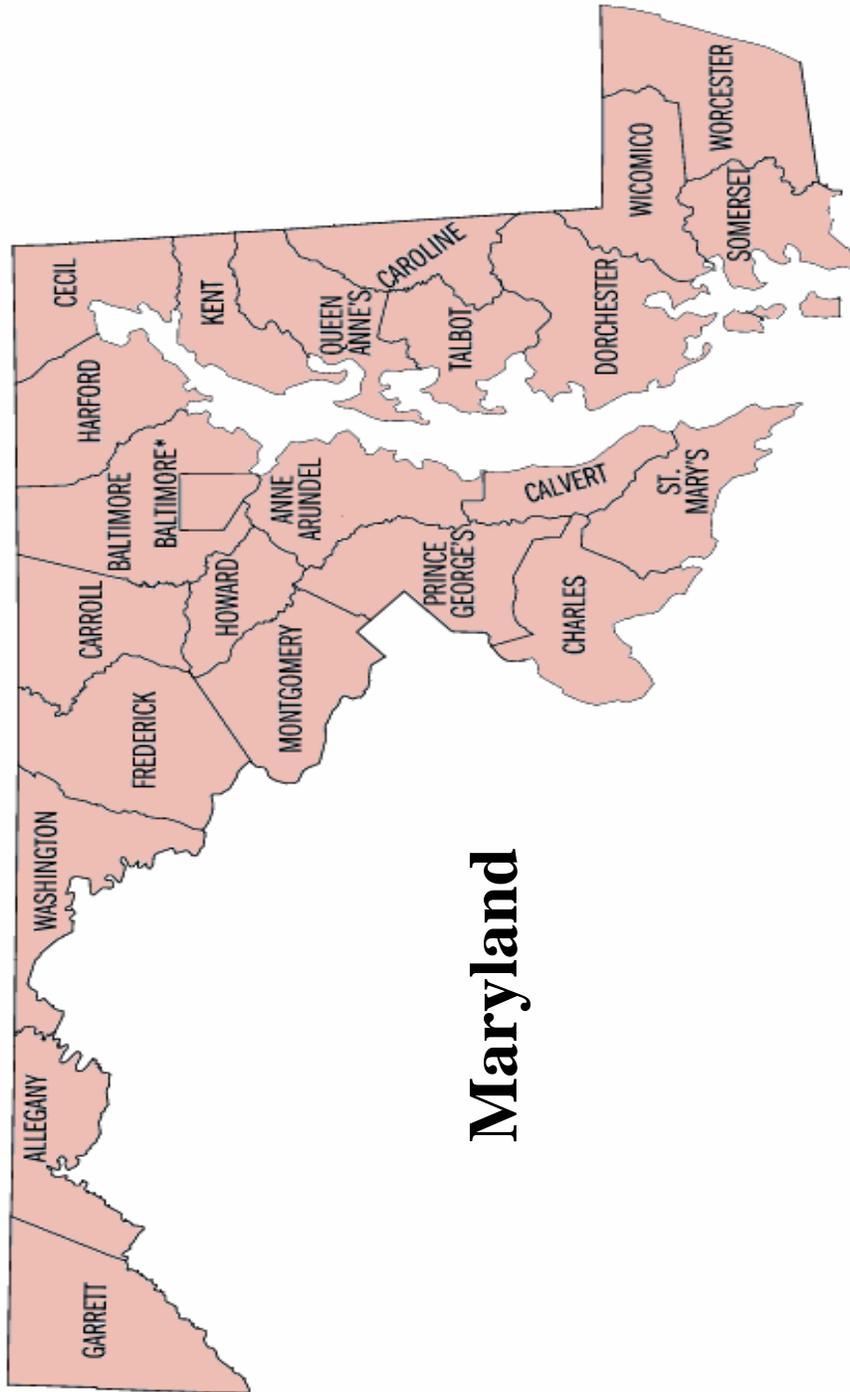
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# Maryland



# Maryland Compendium of Cross County Indicators on Underage Drinking

## I. Introduction

### Overview

This is a special edition of the *Compendium of Cross County Indicators* to address underage drinking. It is product of the Maryland State Epidemiological Outcomes Workgroup (MD SEOW) compiled at the request of county addiction and prevention coordinators who attended a August 2008 training. After reviewing county data on the consequences and consumption of substance use shared at the training by representatives of the MD SEOW, coordinators from approximately 15 counties identified underage drinking as a priority for prevention in their counties. This report focuses on the consequences and consumption of alcohol among Maryland youth. It compiles recent available county level data on crashes, arrests, suspensions from public schools, consumption, and treatment admissions. The data are presented in a format to facilitate state and cross county comparisons. This report is intended primarily as a resource for the use of state and local prevention professionals in local prevention planning, but should be of use to all persons who have an interest in underage drinking in Maryland.

### Maryland State Epidemiological Outcomes Workgroup (MD SEOW)

The MD SEOW was created in March 2006, with funding from Substance Abuse and Mental Health Services Administration's (SAMHSA) Center for Substance Abuse Prevention (CSAP), to guide the development of a state-of-the-art empirically based system for setting priorities for the state's substance abuse prevention activities. This project is being coordinated by staff at the Maryland Alcohol and Drug Abuse Administration (ADAA) and at the University of Maryland's Center for Substance Abuse Research (CESAR). The core membership of the MD SEOW is comprised of state agency representatives, researchers, and policymakers.

Note: The consequence and consumption indicators included in this report were identified by the MD SEOW as among the most valid and reliable data available. The 2007 *Maryland Epidemiological Profile* available online at [www.cesar.umd.edu](http://www.cesar.umd.edu) details how the indicators were selected.

**Table 1: Maryland Residents Aged 12 to 17 Years with Past Year Alcohol Dependence or Abuse\*\*\*, by Maryland Substate Region, Annual Averages Based on 2004, 2005, and 2006 Surveys**

Substate Region****	Past Year Alcohol Dependence or Abuse Among Residents Aged 12 to 17 Years***			
	Estimate* (%)	95% Prediction Interval (%)	Estimate** (#)	95% Prediction Interval (#)
Anne Arundel	5.03%	(3.28 – 7.65)	2,000	(1,456 – 3,396)
Baltimore City	3.66%	(2.38 – 5.59)	2,000	(1,345 – 3,160)
Baltimore County	5.01%	(3.34 – 7.45)	3,000	(2,213 – 4,935)
Montgomery	5.76%	(3.91 – 8.41)	4,000	(2,929 – 6,301)
North Central	7.77%	(5.06 – 11.76)	3,000	(2,019 – 4,692)
Northeast	6.44%	(4.30 – 9.54)	3,000	(1,792 – 3,975)
Prince George's	3.25%	(2.10 – 4.98)	3,000	(1,618 – 3,837)
South	4.49%	(2.95 – 6.79)	2,000	(1,416 – 3,258)
West	5.81%	(3.82 – 8.74)	2,000	(1,545 – 3,534)
<b>Maryland</b>	<b>5.06%</b>	<b>(4.01 – 6.36)</b>	<b>25,000</b>	<b>(19,614 – 31,108)</b>

**NOTES:**

\***Estimated percentages** are based on survey-weighted hierarchical Bayes estimation approach, and the 95 percent prediction (credible) interval are generated by Markov Carlo techniques.

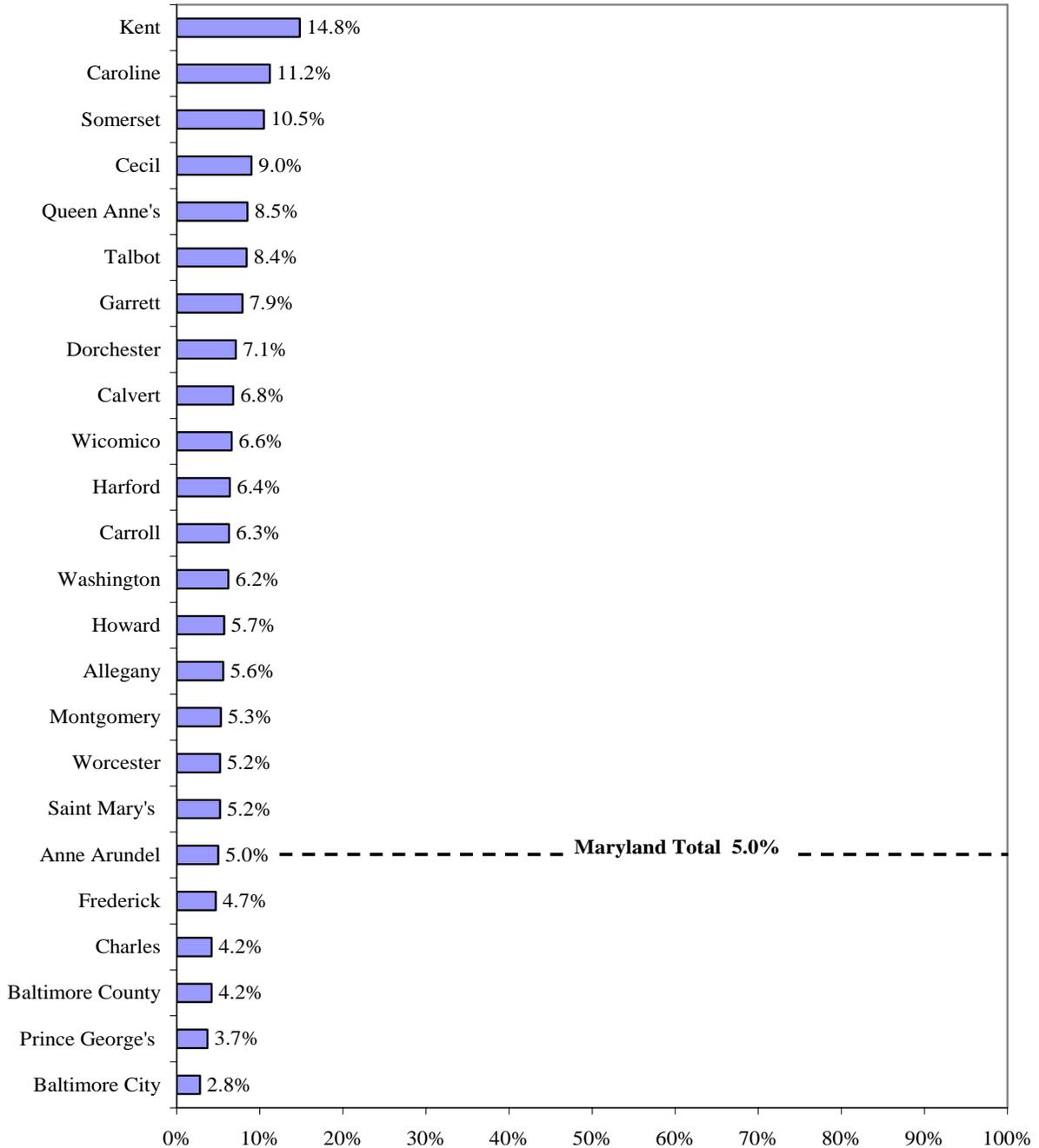
\*\***Estimated number** of past year alcohol dependence or abuse among Maryland residents aged 12-17 in each substate region were calculated using 2004-2006 substate population counts provided by SAMHSA OAS. Estimated numbers are rounded to the nearest thousand.

\*\*\***Dependence or abuse** is based on definitions found in the 4th edition of the Diagnostic and Statistical Manual of Mental Disorders (DSM-IV).

\*\*\*\***Substate Region:** The regions were defined as follows: Anne Arundel=Anne Arundel County; Baltimore City=Baltimore City; Baltimore=Baltimore County; Montgomery=Montgomery County; North Central=Carroll and Howard Counties; Northeast=Caroline, Cecil, Harford, Kent, Queen Anne's, and Talbot counties; Prince George's=Prince George's County; South=Calvert, Charles, Dorchester, St. Mary's, Somerset, Wicomico, and Worcester Counties; West=Allegany, Frederick, Garrett, and Washington Counties.

**SOURCE:** Adapted by CESAR from the Substance Abuse Mental Health Services Administration (SAMHSA), Office of Applied Studies (OAS), National Survey on Drug Use and Health (NSDUH), 2004, 2005, 2006.

**Figure 1: Percentage of County Crashes Among Drivers Aged 16 to 20 Years that were Alcohol and/or Other Drug Related, by Maryland County, 2006**



**NOTES:**

\***Crash:** An event that produces injury and/or property damage, involves a motor vehicle in transport, and occurs on a trafficway or while the vehicle is still in motion after running off the trafficway.

\*\***Fatal Crash:** A police-reported crash involving a motor vehicle in transport on a trafficway in which at least one person dies within 30 days of the crash.

**SOURCE:** Adapted by CESAR from the 2006 Maryland Automated Accident Reporting System (MAARS), Traffic Safety Analysis Division, Office of Traffic and Safety, Maryland State Highway Administration (SHA).



**Table 2: Alcohol and/or Drug (AOD)-Related Crashes\* and Fatal Crashes\*\* Among Maryland Drivers Aged 16 to 20 Years, by Maryland County, 2006**

County	Traffic Crashes Among Drivers Aged 16 to 20 Years							
	Total Crashes	Number of AOD-Related Crashes	Percentage of County Crashes that are AOD-Related	Percentage of State AOD-Related Crashes Occurring in County	Total Fatal Crashes	Number of AOD-Related Fatal Crashes	Percentage of County Fatal Crashes that are AOD-Related	Percentage of State AOD-Related Fatal Crashes Occurring in County
	(#)	(#)	(%)	(%)	(#)	(#)	(%)	(%)
Allegany	195	11	5.6%	1.1%	0	0	--	0.0%
Anne Arundel	2,102	106	5.0%	10.6%	8	1	12.5%	3.7%
Baltimore City	1,780	49	2.8%	4.9%	4	3	75.0%	11.1%
Baltimore County	3,314	139	4.2%	13.9%	13	2	15.4%	7.4%
Calvert	367	25	6.8%	2.5%	5	1	20.0%	3.7%
Caroline	116	13	11.2%	1.3%	1	0	0.0%	0.0%
Carroll	662	42	6.3%	4.2%	8	1	12.5%	3.7%
Cecil	424	38	9.0%	3.8%	2	0	0.0%	0.0%
Charles	713	30	4.2%	3.0%	3	1	33.3%	3.7%
Dorchester	99	7	7.1%	0.7%	0	0	--	0.0%
Frederick	786	37	4.7%	3.7%	8	2	25.0%	7.4%
Garrett	126	10	7.9%	1.0%	0	0	--	0.0%
Harford	936	60	6.4%	6.0%	4	1	25.0%	3.7%
Howard	722	41	5.7%	4.1%	7	3	42.9%	11.1%
Kent	61	9	14.8%	0.9%	1	1	100.0%	3.7%
Montgomery	2,457	130	5.3%	13.0%	8	4	50.0%	14.8%
Prince George's	2,493	91	3.7%	9.1%	11	2	18.2%	7.4%
Queen Anne's	188	16	8.5%	1.6%	1	0	0.0%	0.0%
Saint Mary's	423	22	5.2%	2.2%	6	1	16.7%	3.7%
Somerset	76	8	10.5%	0.8%	2	1	50.0%	3.7%
Talbot	215	18	8.4%	1.8%	2	2	100.0%	7.4%
Washington	721	45	6.2%	4.5%	4	0	0.0%	0.0%
Wicomico	573	38	6.6%	3.8%	3	1	33.3%	3.7%
Worcester	308	16	5.2%	1.6%	1	0	0.0%	0.0%
<b>Maryland Total</b>	<b>19,857</b>	<b>1,001</b>	<b>5.0%</b>	<b>100.0%</b>	<b>102</b>	<b>27</b>	<b>26.5%</b>	<b>100.0%</b>

**NOTES:**

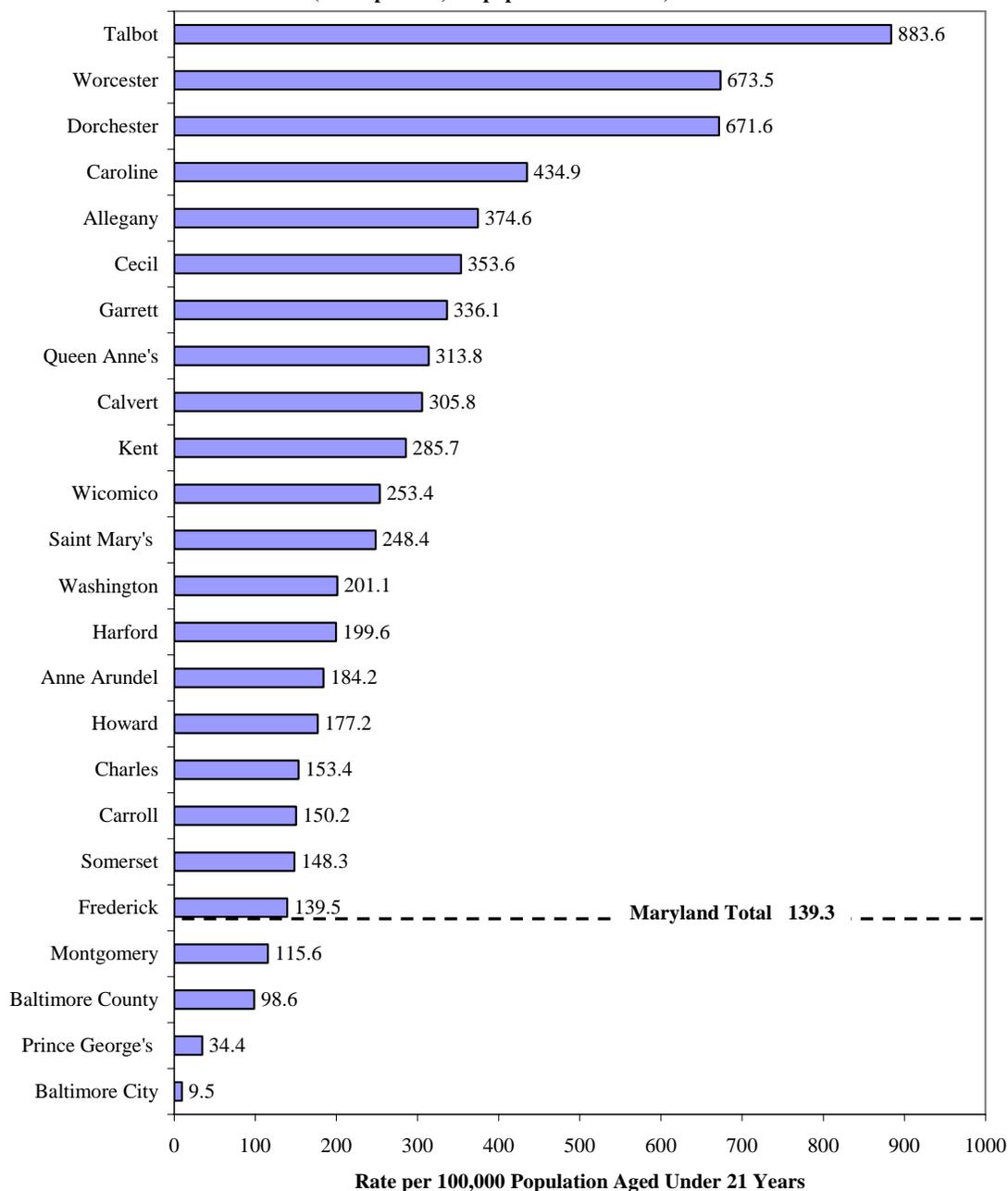
\***Crash:** An event that produces injury and/or property damage, involves a motor vehicle in transport, and occurs on a trafficway or while the vehicle is still in motion after running off the trafficway.

\*\***Fatal Crash:** A police-reported crash involving a motor vehicle in transport on a trafficway in which at least one person dies within 30 days of the crash.

**SOURCE:** Adapted by CESAR from the 2006 Maryland Automated Accident Reporting System (MAARS), Traffic Safety Analysis Division, Office of Traffic and Safety, Maryland State Highway Administration (SHA).



**Figure 2: Driving Under the Influence (DUI) Arrest Rates  
Among Those Aged Under 21 Years, by Maryland County, 2006  
(Rates per 100,000 population under 21)**



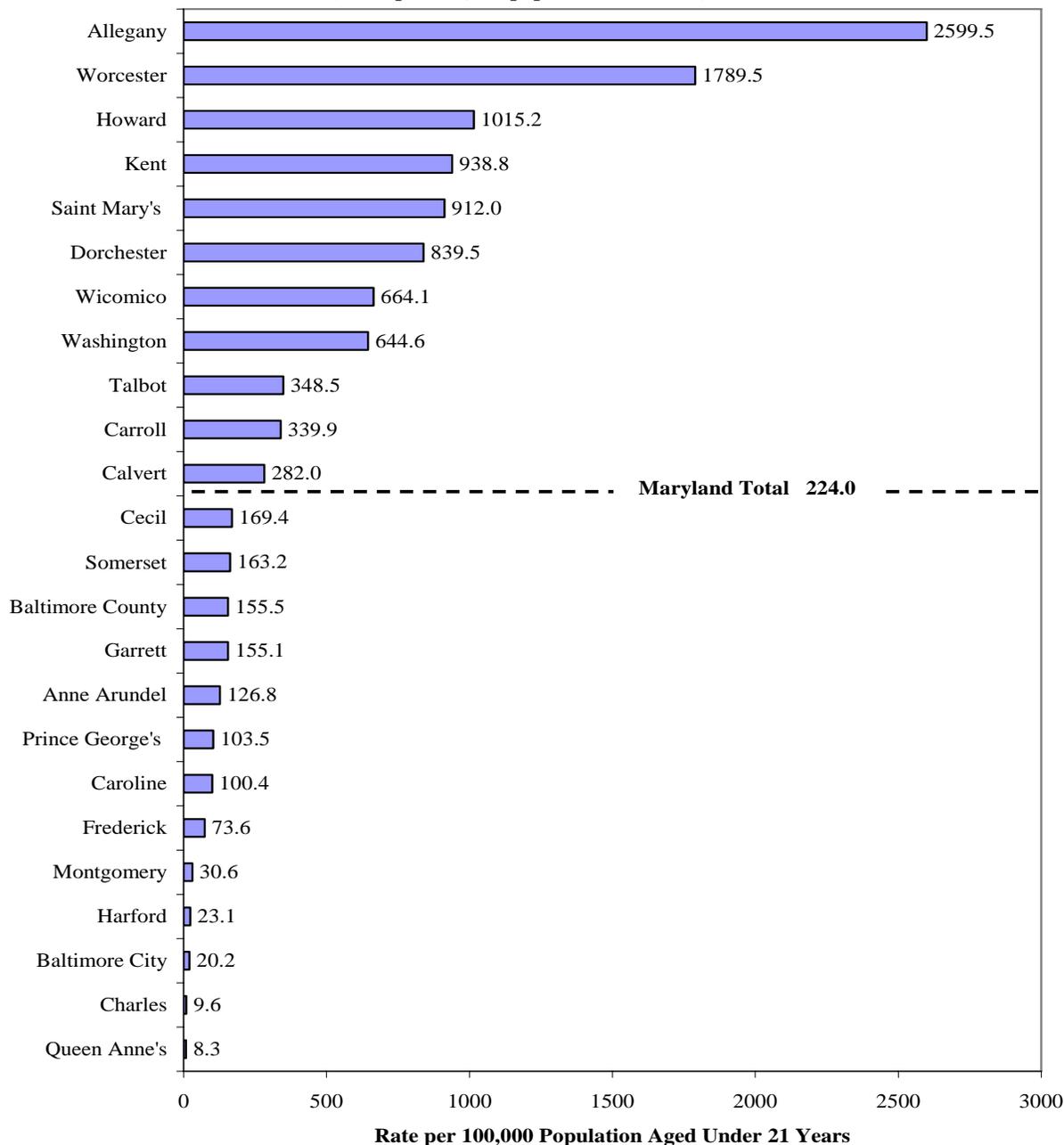
**NOTES:** Arrests provide a measure of enforcement and may not reflect the true magnitude of the underlying problem. Rates calculated using 2006 estimates of population under 21 from the National Center for Health Statistics (NCHS) in collaboration with the US Census Bureau (August 16, 2007): Vintage 2006 postcensal series by year, county, age, sex, race, and Hispanic origin (available on <http://www.epidcc.samhsa.gov/data/data.asp>, accessed September 2, 2008).

**Driving Under the Influence (DUI) Arrest:** driving or operating a motor vehicle or common carrier while mentally or physically impaired as the result of consuming an alcoholic beverage or using a drug or narcotic.

**SOURCE:** Adapted by CESAR from the *Crime In Maryland, 2006 Uniform Crime Report*. Maryland Uniform Crime Reporting (UCR) Program, Maryland State Police (MSP).



**Figure 3: Liquor Law Violation Arrest Rates Among Those Aged Under 21 Years, by Maryland County, 2006**  
(Rates per 100,000 population under 21)



**NOTES:** Arrests provide a measure of enforcement and may not reflect the true magnitude of the underlying problem. Rates calculated using 2006 estimates of population under 21 from the National Center for Health Statistics (NCHS) in collaboration with the US Census Bureau (August 16, 2007): Vintage 2006 postcensal series by year, county, age, sex, race, and Hispanic origin (available on <http://www.epidcc.samhsa.gov/data/data.asp>, accessed September 2, 2008).

**Liquor Law Violation Arrest:** the violation of state or local laws or ordinances prohibiting the manufacture, sale, purchase, transportation, possession, or use of alcoholic beverages, not including driving under the influence and drunkenness. Arrests provide a measure of enforcement and may not reflect the true magnitude of the underlying problem.

**SOURCE:** Adapted by CESAR from the *Crime In Maryland, 2006 Uniform Crime Report*. Maryland Uniform Crime Reporting (UCR) Program, Maryland State Police (MSP).



**Table 3: Alcohol-Related Arrests Among those Aged Under 21 Years,  
by Type of Arrest and Maryland County, 2006**  
ARRESTS AND MARYLAND COUNTY, 2006

County	Arrestees Under 21 Years					
	DUI Arrests**			Liquor Law Violation Arrests***		
	Number of DUI Arrests (#)	Percentage of State DUI Arrests Occurring in County (%)	DUI Arrest Rate* (per 100,000 pop.)	Number of Liquor Law Violation Arrests (#)	Percentage of State Liquor Law Violation Arrests Occurring in County (%)	Liquor Law Violation Arrest Rate* (per 100,000 pop.)
Allegany	66	3.0%	374.6	458	12.8%	2,599.5
Anne Arundel	263	11.8%	184.2	181	5.1%	126.8
Baltimore City	18	0.8%	9.5	38	1.1%	20.2
Baltimore County	208	9.4%	98.6	328	9.2%	155.5
Calvert	77	3.5%	305.8	71	2.0%	282.0
Caroline	39	1.8%	434.9	9	0.3%	100.4
Carroll	72	3.2%	150.2	163	4.6%	339.9
Cecil	96	4.3%	353.6	46	1.3%	169.4
Charles	64	2.9%	153.4	4	0.1%	9.6
Dorchester	52	2.3%	671.6	65	1.8%	839.5
Frederick	91	4.1%	139.5	48	1.3%	73.6
Garrett	26	1.2%	336.1	12	0.3%	155.1
Harford	138	6.2%	199.6	16	0.4%	23.1
Howard	141	6.3%	177.2	808	22.6%	1,015.2
Kent	14	0.6%	285.7	46	1.3%	938.8
Montgomery	302	13.6%	115.6	80	2.2%	30.6
Prince George's	89	4.0%	34.4	268	7.5%	103.5
Queen Anne's	38	1.7%	313.8	1	<0.1%	8.3
Saint Mary's	73	3.3%	248.4	268	7.5%	912.0
Somerset	10	0.5%	148.3	11	0.3%	163.2
Talbot	71	3.2%	883.6	28	0.8%	348.5
Washington	73	3.3%	201.1	234	6.6%	644.6
Wicomico	66	3.0%	253.4	173	4.8%	664.1
Worcester	70	3.2%	673.5	186	5.2%	1,789.5
<b>Maryland Total</b>	<b>2,221</b>	<b>100.0%</b>	<b>139.3</b>	<b>3,571</b>	<b>100.0%</b>	<b>224.0</b>

**NOTES:**

\***Arrest Rates** calculated using 2006 estimates of population under 21 from the National Center for Health Statistics (NCHS) in collaboration with the US Census Bureau (August 16, 2007): Vintage 2006 postcensal series by year, county, age, sex, race, and Hispanic origin (available on <http://www.epidcc.samhsa.gov/data/data.asp>, accessed September 2, 2008).

\*\***Driving Under the Influence (DUI) Arrest:** driving or operating a motor vehicle or common carrier while mentally or physically impaired as the result of consuming an alcoholic beverage or using a drug or narcotic.

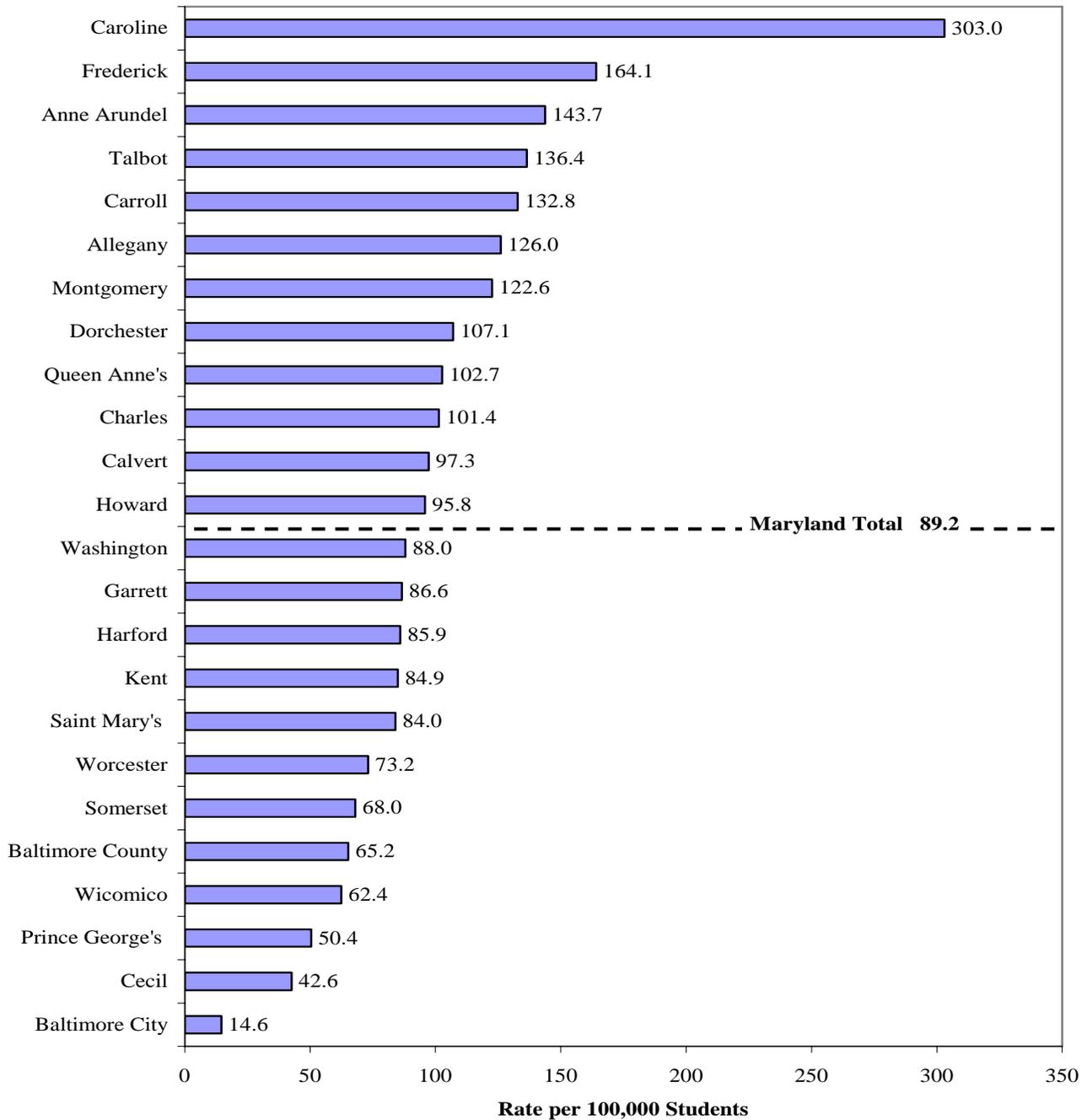
\*\*\***Liquor Law Violation Arrest:** the violation of state or local laws or ordinances prohibiting the manufacture, sale, purchase, transportation, possession, or use of alcoholic beverages, not including driving under the influence and drunkenness.

Arrests provide a measure of enforcement and may not reflect the true magnitude of the underlying problem.

**SOURCE:** Adapted by CESAR from the *Crime In Maryland, 2006 Uniform Crime Report*. Maryland Uniform Crime Reporting (UCR) Program, Maryland State Police (MSP).



**Figure 4: Alcohol-Related Public School Suspension Rates,  
by Maryland County, School Year 2006-07  
(Rates per 100,000 Students)**



**NOTES:** Rates calculated using Maryland State Department of Education (MSDE) public school enrollment figures as of September 30<sup>th</sup> from the report: *Maryland Public School Enrollment by Race/Ethnicity and Gender and Number of Schools September 30, 2006*, Division of Accountability and Assessment, Maryland State Department of Education (MSDE).  
Suspensions refer to in-school and out-of-school suspensions combined. Maryland Total includes data from the Edison Schools.

**SOURCE:** *Suspensions, Expulsions, and Health-Related Exclusions Maryland Public Schools, 2006-07*, Division of Accountability and Assessment, Maryland State Department of Education (MSDE).

**Table 4: Alcohol-Related Suspensions in Maryland Public Schools, by Maryland County, School Year 2006–07**

County	All Suspensions (#)	Alcohol-Related Suspensions (#)	Percentage of County Suspensions that are Alcohol-Related (%)	Percentage of State Alcohol-Related Suspensions Occurring in County (%)	Alcohol-Related Suspension Rate* (per 100,000 students)
Allegany	2,595	12	0.5%	1.6%	126.0
Anne Arundel	16,140	105	0.7%	13.8%	143.7
Baltimore City	17,520	12	0.1%	1.6%	14.6
Baltimore County	23,345	69	0.3%	9.1%	65.2
Calvert	6,153	17	0.3%	2.2%	97.3
Caroline	2,805	17	0.6%	2.2%	303.0
Carroll	3,691	38	1.0%	5.0%	132.8
Cecil	7,185	7	0.1%	0.9%	42.6
Charles	13,489	27	0.2%	3.6%	101.4
Dorchester	2,062	5	0.2%	0.7%	107.1
Frederick	6,800	66	1.0%	8.7%	164.1
Garrett	485	4	0.8%	0.5%	86.6
Harford	8,441	34	0.4%	4.5%	85.9
Howard	4,135	47	1.1%	6.2%	95.8
Kent	826	2	0.2%	0.3%	84.9
Montgomery	11,591	169	1.5%	22.2%	122.6
Prince George's	25,356	66	0.3%	8.7%	50.4
Queen Anne's	1,771	8	0.5%	1.1%	102.7
Saint Mary's	7,182	14	0.2%	1.8%	84.0
Somerset	1,959	2	0.1%	0.3%	68.0
Talbot	891	6	0.7%	0.8%	136.4
Washington	5,728	19	0.3%	2.5%	88.0
Wicomico	8,919	9	0.1%	1.2%	62.4
Worcester	1,835	5	0.3%	0.7%	73.2
<b>Maryland Total**</b>	<b>181,578</b>	<b>760</b>	<b>0.4%</b>	<b>100.0%</b>	<b>89.2</b>

**NOTES:**

\*Rates calculated using Maryland State Department of Education (MSDE) public school enrollment figures as of September 30<sup>th</sup> from the report: *Maryland Public School Enrollment by Race/Ethnicity and Gender and Number of Schools September 30, 2006*, Division of Accountability and Assessment, Maryland State Department of Education (MSDE).

\*\*Maryland Total includes data from the Edison Schools so county totals will not sum to the Maryland Total.

Suspensions refer to in-school and out-of-school suspensions combined. All prior years included only out-of-school suspensions. Thus, trend analyses should not be made between SY2006-07 and any previous year.

**SOURCE:** Suspensions, Expulsions, and Health-Related Exclusions Maryland Public Schools, 2006-07, Division of Accountability and Assessment, Maryland State Department of Education (MSDE).



**Table 5: Past Month Alcohol Use Among Maryland Residents Aged 12 to 20 Years, by Maryland Substate Region, Annual Averages Based on 2004, 2005, and 2006 Surveys**

Substate Region***	Past Month Use Among Residents Aged 12 to 20 Years			
	Estimate* (%)	95% Prediction Interval (%)	Estimate** (#)	95% Prediction Interval (#)
Anne Arundel	29.82%	(25.18 – 34.91)	19,000	(15,869 – 22,001)
Baltimore City	23.95%	(19.86 – 28.58)	20,000	(16,894 – 24,312)
Baltimore County	26.80%	(22.65 – 31.40)	26,000	(21,697 – 30,079)
Montgomery	28.23%	(23.98 – 32.90)	30,000	(25,494 – 34,977)
North Central	30.68%	(25.98 – 35.83)	17,000	(14,245 – 19,645)
Northeast	29.40%	(24.75 – 34.51)	17,000	(14,201 – 19,800)
Prince George's	19.94%	(16.62 – 23.74)	23,000	(18,991 – 27,127)
South	27.90%	(23.72 – 32.49)	19,000	(16,141 – 22,108)
West	27.51%	(22.98 – 32.56)	16,000	(13,150 – 18,632)
<b>Maryland</b>	<b>26.50%</b>	<b>(24.43 – 28.68)</b>	<b>186,000</b>	<b>(171,483 – 201,316)</b>

**NOTES:**

\***Estimated percentages** are based on survey-weighted hierarchical Bayes estimation approach, and the 95 percent prediction (credible) interval are generated by Markov Carlo techniques.

\*\***Estimated numbers** are rounded to the nearest thousand and were calculated using 2004-2006 substate population counts provided by SAMHSA OAS.

\*\*\***Substate Region:** The regions were defined as follows: Anne Arundel=Anne Arundel County; Baltimore City=Baltimore City; Baltimore=Baltimore County; Montgomery=Montgomery County; North Central=Carroll and Howard Counties; Northeast=Caroline, Cecil, Harford, Kent, Queen Anne's, and Talbot counties; Prince George's=Prince George's County; South=Calvert, Charles, Dorchester, St. Mary's, Somerset, Wicomico, and Worcester Counties; West=Allegany, Frederick, Garrett, and Washington Counties.

**SOURCE:** Adapted by CESAR from the Substance Abuse Mental Health Services Administration (SAMHSA), Office of Applied Studies (OAS), National Survey on Drug Use and Health (NSDUH), 2004, 2005, 2006.



**Table 6: Past Month Binge Alcohol Use\*\*\* Among Maryland Residents Aged 12 to 20 Years, by Maryland Substate Region, Annual Averages Based on 2004, 2005, and 2006 Surveys**

Substate Region****	Past Month Binge Alcohol Use Among Residents Aged 12 to 20 Years			
	Estimate* (%)	95% Prediction Interval (%)	Estimate** (#)	95% Prediction Interval (#)
Anne Arundel	19.16%	(15.50 – 23.44)	12,000	(9,768 – 14,772)
Baltimore City	12.75%	(9.91 – 16.26)	11,000	(8,430 – 13,832)
Baltimore County	15.30%	(12.25 – 18.94)	15,000	(11,735 – 18,143)
Montgomery	15.78%	(12.70 – 19.43)	17,000	(13,502 – 20,656)
North Central	19.33%	(15.45 – 23.91)	11,000	(8,471 – 13,110)
Northeast	19.75%	(15.82 – 24.37)	11,000	(9,077 – 13,983)
Prince George's	10.81%	(8.41 – 13.78)	12,000	(9,610 – 15,746)
South	18.44%	(14.90 – 22.59)	13,000	(10,139 – 15,372)
West	17.27%	(13.72 – 21.51)	10,000	(7,851 – 12,309)
<b>Maryland</b>	<b>15.82%</b>	<b>(14.22 – 17.57)</b>	<b>111,000</b>	<b>(99,815 – 123,330)</b>

**NOTES:**

\***Estimated percentages** are based on survey-weighted hierarchical Bayes estimation approach, and the 95 percent prediction (credible) interval are generated by Markov Carlo techniques.

\*\***Estimated numbers** are rounded to the nearest thousand and were calculated using 2004-2006 substate population counts provided by SAMHSA OAS.

\*\*\***Binge Alcohol Use** is defined as drinking five or more drinks on the same occasion (i.e., at the same time or within a couple of hours of each other) on at least 1 day in the past 30 days.

\*\*\*\***Substate Region:** The regions were defined as follows: Anne Arundel=Anne Arundel County; Baltimore City=Baltimore City; Baltimore County=Baltimore County; Montgomery=Montgomery County; North Central=Carroll and Howard Counties; Northeast=Caroline, Cecil, Harford, Kent, Queen Anne's, and Talbot counties; Prince George's=Prince George's County; South=Calvert, Charles, Dorchester, St. Mary's, Somerset, Wicomico, and Worcester Counties; West=Allegany, Frederick, Garrett, and Washington Counties.

**SOURCE:** Adapted by CESAR from the Substance Abuse Mental Health Services Administration (SAMHSA), Office of Applied Studies (OAS), National Survey on Drug Use and Health (NSDUH), 2004, 2005, 2006.



**Table 7: Past Month Alcohol Use Among Maryland Public School 12th Graders, by Maryland County, School Year 2004-05**

County	Past Month Use Among 12th Graders							
	Any Alcohol		Binge Drinking**		Beer		Liquor	
	%	Estimated* #	%	Estimated* #	%	Estimated* #	%	Estimated* #
Allegany	48.2%	361	35.5%	266	43.6%	327	37.4%	280
Anne Arundel	49.7%	2,462	36.8%	1,823	45.1%	2,234	43.4%	2,150
Baltimore City	29.0%	1,325	14.1%	644	22.0%	1,005	23.6%	1,078
Baltimore County	49.7%	3,775	34.3%	2,605	42.7%	3,243	42.2%	3,206
Calvert	46.9%	602	33.1%	425	41.8%	537	39.1%	502
Caroline	53.0%	190	42.3%	152	47.4%	170	42.5%	153
Carroll	49.9%	1,077	36.0%	777	46.4%	1,002	40.3%	870
Cecil	40.6%	457	26.3%	296	36.2%	408	30.6%	345
Charles	45.9%	862	30.3%	569	38.5%	723	38.9%	731
Dorchester	43.9%	128	31.0%	91	40.6%	119	38.7%	113
Frederick	47.9%	1,349	35.0%	986	43.6%	1,228	39.9%	1,124
Garrett	51.5%	155	37.3%	112	49.5%	149	40.8%	123
Harford	49.7%	1,365	37.6%	1,032	46.3%	1,271	39.7%	1,090
Howard	47.0%	1,585	34.6%	1,167	42.7%	1,440	39.3%	1,326
Kent	59.5%	90	46.2%	70	51.4%	78	48.9%	74
Montgomery	45.2%	4,506	28.3%	2,821	39.5%	3,937	36.1%	3,598
Prince George's	33.8%	2,824	15.2%	1,270	26.4%	2,205	25.6%	2,139
Queen Anne's	51.8%	258	42.9%	214	47.6%	238	45.1%	225
Saint Mary's	46.9%	487	34.0%	353	43.5%	452	38.2%	397
Somerset	47.6%	84	33.1%	58	46.0%	81	36.6%	64
Talbot	59.0%	128	46.0%	100	55.3%	120	47.3%	103
Washington	44.5%	624	31.6%	443	41.7%	585	38.5%	540
Wicomico	44.3%	384	30.0%	260	38.2%	331	34.3%	297
Worcester	51.0%	283	34.2%	190	48.1%	267	40.2%	223
<b>State Total</b>	<b>44.1%</b>	<b>25,328</b>	<b>29.0%</b>	<b>16,655</b>	<b>38.5%</b>	<b>22,111</b>	<b>36.1%</b>	<b>20,733</b>

**NOTES:**

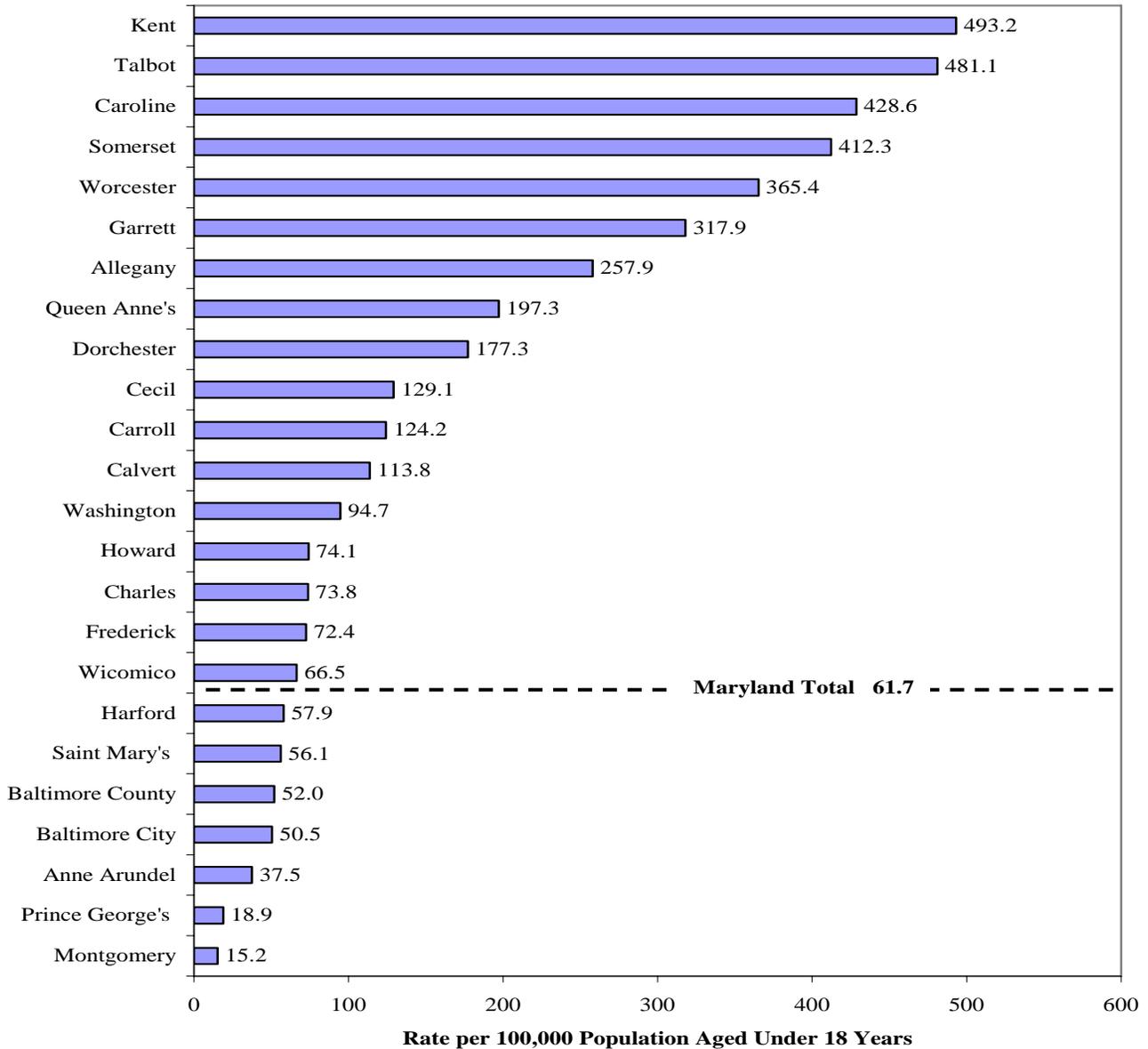
\*Estimated numbers of past month alcohol users are calculated using Maryland State Department of Education (MSDE) public school enrollment figures as of September 30<sup>th</sup> from the report: *Maryland Public School Enrollment by Race/Ethnicity and Gender and Number of Schools September 30, 2004*, Division of Accountability and Assessment, Maryland State Department of Education (MSDE).

\*\*Binge Drinking is defined as five or more servings of alcohol on the same occasion.

The Maryland Adolescent Survey (MAS) Report does not provide the standard errors around these observations; therefore, caution should be exercised in interpreting any differences between counties.

SOURCE: Adapted by CESAR from the Maryland State Department of Education (MSDE), 2004 Maryland Adolescent Survey (MAS).

**Figure 5: Rates of Maryland Treatment Admissions for Alcohol as the Primary Substance of Abuse\* Among Maryland Residents Aged Under 18 Years, by County of Residence, 2006 (Rates per 100,000 Population Under 18)**



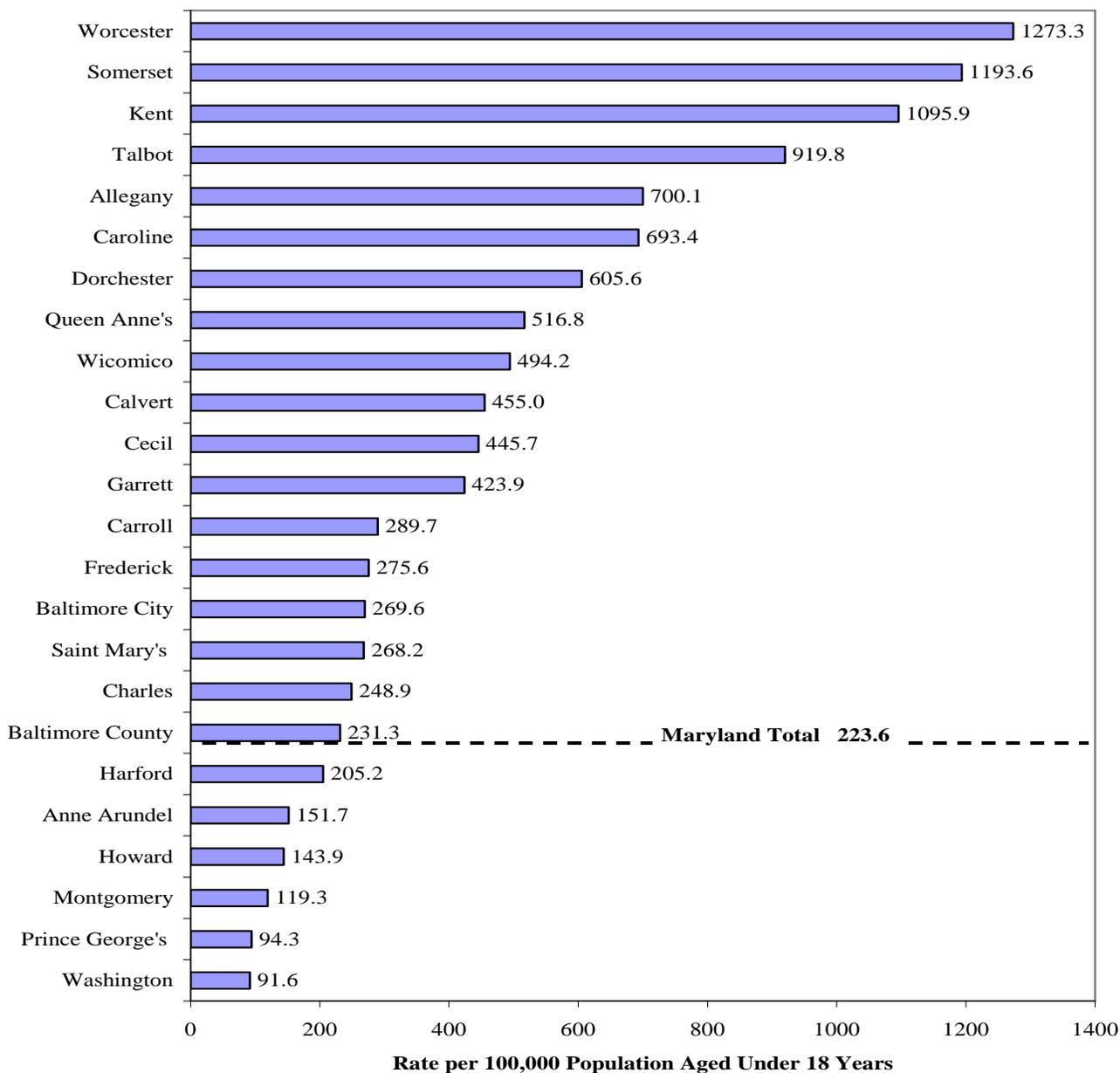
**NOTES:** \*Includes admissions where alcohol was identified as the primary problem as either the only drug problem mentioned or the primary drug problem mentioned with other drug problems reported as secondary to alcohol.

Rates calculated using 2006 estimates of population under 18 from the National Center for Health Statistics (NCHS) in collaboration with the US Census Bureau (August 16, 2007): Vintage 2006 postcensal series by year, county, age, sex, race, and Hispanic origin (available on <http://www.epidcc.samhsa.gov/data/data.asp>, accessed September 2, 2008).

Up to three substance problems can be reported at each admission. Each admission in the treatment data does not necessarily represent a unique individual, since some individuals are admitted to treatment more than once in a given period.

**SOURCE:** Adapted by CESAR from the State of Maryland Automated Reporting and Tracking System (SMART), Maryland Alcohol and Drug Abuse Administration (ADAA), August 2, 2007.

**Figure 6: Rates of Treatment Admissions Mentioning Any Alcohol\* Abuse  
Among Maryland Residents Aged Under 18 Years,  
by County of Residence, 2006  
(Rates per 100,000 Population Under 18)**



**NOTE:** \* Up to three substance problems can be reported for each admission. A mention is a report of a particular substance problem as either primary, secondary, or tertiary, with any of three levels of severity.

Rates calculated using 2006 estimates of population under 18 from the National Center for Health Statistics (NCHS) in collaboration with the US Census Bureau (August 16, 2007): Vintage 2006 postcensal series by year, county, age, sex, race, and Hispanic origin (available on <http://www.epidcc.samhsa.gov/data/data.asp>, accessed September 2, 2008).

Each admission in the treatment data does not necessarily represent a unique individual, since some individuals are admitted to treatment more than once in a given period.

**SOURCE:** Adapted by CESAR from the State of Maryland Automated Record Tracking (SMART), Maryland Alcohol and Drug Abuse Administration (ADAA), August 2, 2007.



**Table 8: Alcohol-Related Treatment Admissions Among Maryland Residents Under 18 Years, by Maryland County, 2006**

County of Residence	Treatment Admissions Among Residents Under 18 Years			
	Alcohol Cited as Primary Substance of Abuse**		Any Mention of Alcohol as a Substance of Abuse***	
	(#)	(Rate per 100,000 pop.)*	(#)	(Rate per 100,000 pop.)
Allegany	35	257.9	95	700.1
Anne Arundel	46	37.5	186	151.7
Baltimore City	79	50.5	422	269.6
Baltimore County	92	52.0	409	231.3
Calvert	25	113.8	100	455.0
Caroline	34	428.6	55	693.4
Carroll	51	124.2	119	289.7
Cecil	31	129.1	107	445.7
Charles	27	73.8	91	248.9
Dorchester	12	177.3	41	605.6
Frederick	41	72.4	156	275.6
Garrett	21	317.9	28	423.9
Harford	35	57.9	124	205.2
Howard	52	74.1	101	143.9
Kent	18	493.2	40	1,095.9
Montgomery	35	15.2	274	119.3
Prince George's	41	18.9	204	94.3
Queen Anne's	21	197.3	55	516.8
Saint Mary's	14	56.1	67	268.2
Somerset	19	412.3	55	1,193.6
Talbot	34	481.1	65	919.8
Washington	30	94.7	29	91.6
Wicomico	14	66.5	104	494.2
Worcester	33	365.4	115	1,273.3
<b>Maryland Total**</b>	<b>840</b>	<b>61.7</b>	<b>3,042</b>	<b>223.6</b>

**NOTES:** \* Rates calculated using 2006 estimates of population under 18 from the National Center for Health Statistics (NCHS) in collaboration with the US Census Bureau (August 16, 2007): Vintage 2006 postcensal series by year, county, age, sex, race, and Hispanic origin (available on <http://www.epidcc.samhsa.gov/data/data.asp>, accessed September 2, 2008).

\*\***Alcohol cited as primary substance of abuse:** includes admissions where alcohol was identified as the primary problem as either the only substance mentioned or the primary substance problem mentioned with other drug problems reported as secondary to alcohol.

\*\*\***Any mention of alcohol:** up to three substance problems can be reported for each admission. A mention is a report of a particular substance problem as either primary, secondary, or tertiary, with any of three levels of severity.

Each admission in the treatment data does not necessarily represent a unique individual, since some individuals are admitted to treatment more than once in a given period.

**SOURCE:** Adapted by CESAR from the State of Maryland Automated Record Tracking (SMART), Maryland Alcohol and Drug Abuse Administration (ADAA), August 2, 2007.

