WV Department of Health and Human Resources Bureau for Behavioral Health and Health Facilities

# BOONE COUNTY

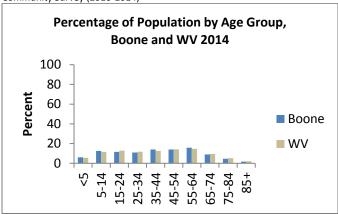


Behavioral Health Epidemiological County Profile

Demographic Data

		Boone	WV
Population		24,257	1,853,881
	White	98.4%	93.6%
Race	Black	0.9%	3.2%
	Other	0.7%	3.2%
Median age		41.6	41.6
Labor force*		45.9%	54.3%
Median household income*		42,740	41,576
Income below poverty level*		16.6%	13.1%
High school graduate or higher*		77.6%	84.4%
Civilian veterans*		9.2%	10.6%

Source: US Census Bureau, 2014 population estimates, \*American Community Survey (2010-2014)



Population by Age Group 2014					
	Вос	one	W	<b>'V</b>	
Age	#	%	#	%	
<5	1,465	6.0%	103,044	5.6%	
5-14	3,066	12.6%	214,204	11.6%	
15-24	2,780	11.5%	238,019	12.8%	
25-34	2,637	10.9%	219,567	11.8%	
35-44	3,386	14.0%	233,375	12.6%	
45-54	3,390	14.0%	263,350	14.2%	
55-64	3,829	15.8%	270,697	14.6%	
65-74	2,169	8.9%	175,725	9.5%	
75-84	1,118	4.6%	98,022	5.3%	
85+	417	1.7%	37,878	2.0%	

Source: US Census Bureau, 2014 population estimates

# Adult Behavioral Health Risk Factors: 2010-2014

Indicator	Boone	wv	Rank in WV*
Fair/Poor Health	37.9%†	25.0%	3
No Health Insurance (ages 18-64)	22.5%	21.5%	25
No Leisure Time Physical Activity	33.6%	31.8%	26
Obesity	33.6%	34.0%	34
Diabetes	14.1%	12.8%	21
Cardiovascular Disease	20.6%†	13.3%	1
Current Asthma	10.3%	9.3%	24
Disability	36.9%†	29.0%	7
Arthritis	43.0%	36.9%	10
Cancer	14.0%	12.3%	7
Depression	30.3%†	21.6%	1

Source: WV Health Statistics Center, Behavioral Risk Factor Surveillance System.

There are 55 counties in West Virginia; 1st highest rate and 55th lowest rate. Significance: † Indicates county was significantly higher than state. †† Indicates state was significantly higher than county. § Indicates unreliable prevalence estimate - use caution when reporting and interpreting.

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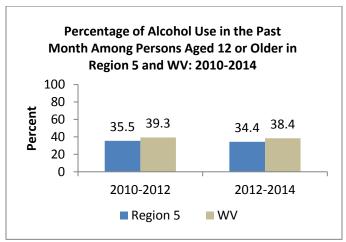
## **Alcohol Consumption**

## Alcohol Use Among Adults: 2010-2014

Indicator	Boone	wv	Rank in WV*
Binge Drinking	7.7%	10.0%	38

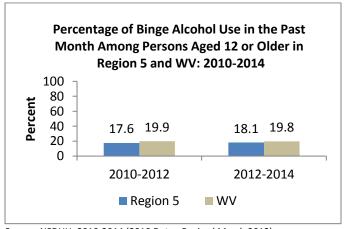
Source: WV Health Statistics Center, Behavioral Risk Factor Surveillance System

## Alcohol Use Among Persons 12 and Older



Source: SAMHSA, Center for Behavioral Health Statistics and Quality, National Survey on Drug Use and Health (NSDUH), 2010, 2011, 2012, 2013, and 2014 (2010 Data - Revised March 2012)

Note: Region 5 is made up of the following counties: Boone, Cabell, Clay, Kanawha, Lincoln, Logan, Mason, Mingo, Putnam, and Wayne.



Source: NSDUH, 2010-2014 (2010 Data - Revised March 2012) Note: 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. See previous definition of Region 5.

## **Underage Drinking (Those Aged 12-20)**

# Alcohol Use in the Past Month Among Persons Aged 12 to 20 in Region 5 and WV: 2010-2014

	2010-2012	2012-2014
Region 5	21.9%	19.2%
WV	26.2%	22.2%

## Binge Alcohol Use in the Past Month Among Persons Aged 12 to 20 in Region 5 and WV: 2010-2014

	2010-2012	2012-2014
Region 5	15.5%	14.6%
WV	20.1%	17.3%

Source: NSDUH, 2010-2014 (2010 Data - Revised March 2012) Note: See previous definitions for binge drinking among persons 12 and older. See previous definition of Region 5.

## Alcohol Risk & Protective Factors

Perceptions of Great Risk of Having Five or More Drinks of an Alcoholic Beverage Once or Twice a Week Among Persons Aged 12 or Older in Region 5 and WV: 2010-2014

	2010-2012	2012-2014
Region 5	41.2%	42.0%
WV	41.4%	41.6%

Alcohol Dependence or Abuse in the Past Year Among Persons Aged 12 or Older in Region 5 and WV: 2010-

	2010-2012	2012-2014
Region 5	4.8%	5.9%
WV	5.6%	6.2%

Alcohol Dependence in the Past Year Among Persons Aged 12 or Older in Region 5 and WV: 2010-2014

	2010-2012	2012-2014
Region 5	2.7%	3.0%
WV	3.0%	3.1%

Needing But Not Receiving Treatment for Alcohol Use in the Past Year Among Persons Aged 12 or Older in Region 5 and WV: 2010-2014

	2010-2012	2012-2014
Region 5	4.5%	5.5%
WV	5.3%	5.9%

Source: NSDUH, 2010-2014 (2010 Data - Revised March 2012) Note: Dependence or abuse is based on definitions found in the 4<sup>th</sup> edition of the Diagnostic and Statistical Manual of Mental Disorders (DSM-IV). Needing But Not Receiving Treatment refers to respondents classified as needing treatment for alcohol, but not receiving treatment for an alcohol problem at a specialty facility (i.e., drug and alcohol rehabilitation facilities [inpatient or outpatient], hospitals [inpatient only], and mental health centers). See previous definition of Region 5.

<sup>\*</sup>There are 55 counties in West Virginia; 1st highest rate and 55th lowest rate.

## **Alcohol Related Consequences**

#### 2013 Morbidity Rates per 10,000 Discharges

	Boone	wv	Rank in WV*
<b>Alcohol Related Diagnosis</b>	115.1	332.2	26
Alcohol Dependence Diagnosis	90.2	176.3	30

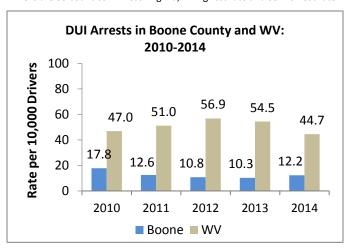
Source: WV Health Care Authority

### 2010-2014 Mortality Rates per 100,000 Population

	Boone	wv	Rank in WV
Chronic Liver-Cirrhosis	20.6	15.1	5

Source: WV Health Statistics Center, Vital Statistics System

<sup>\*</sup>There are 55 counties in West Virginia; 1st highest rate and 55th lowest rate.

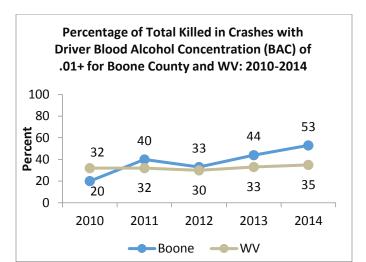


#### **DUI Arrests in Boone County and WV: 2010-2014**

	2010	2011	2012	2013	2014
	ı	Boone			
Number of DUI arrests	30	27	18	17	20
DUI rate per 10,000 drivers	17.8	12.6	10.8	10.3	12.2
WV					
Number of DUI arrests	6,141	6,705	7,443	7,130	5,834
DUI rate per 10,000 drivers	47.0	51.0	56.9	54.5	44.7

Source: WV State Police UCR Section

Note: The DUI arrest data should be interpreted with caution due to the fact that not all law enforcement agencies have reported their DUI arrests (approximately 100 agencies are missing from this dataset).



Source: National Highway Traffic Safety Administration (NHTSA), Fatality Analysis Reporting System (FARS)

Note: NHTSA estimates alcohol involvement when alcohol test results are unknown.

## **Tobacco Consumption**

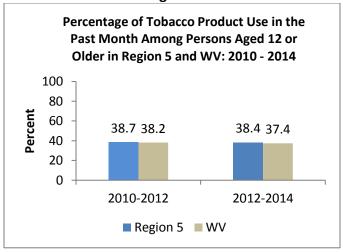
## **Tobacco Use Among Adults: 2010-2014**

Indicator	Boone	wv	Rank in WV*
Cigarette Smoking	31.8%	27.5%	10

Source: WV Health Statistics Center, Behavioral Risk Factor Surveillance System

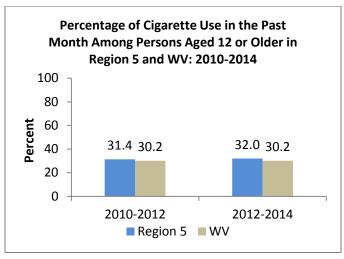
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#### **Tobacco Use Among Persons 12 and Older**



Source: NSDUH, 2010-2014 (2010 Data - Revised March 2012) Note: Tobacco Products include cigarettes, smokeless tobacco (i.e., chewing tobacco or snuff), cigars or pipe tobacco. See previous definition of Region 5.

<sup>\*</sup>There are 55 counties in West Virginia; 1st highest rate and 55th lowest rate.



Source: NSDUH, 2010-2014 (2010 Data - Revised March 2012)

Note: See previous definition of Region 5.

## Tobacco Risk & Protective Factors

Perceptions of Great Risk of Smoking One or More Packs of Cigarettes Per Day Among Persons Aged 12 or Older in Region 5 and WV: 2010-2014

	2010-2012	2012-2014
Region 5	65.1%	63.0%
WV	66.5%	63.6%

Source: NSDUH, 2010-2014 (2010 Data - Revised March 2012

Note: See previous definition of Region 5.

## Tobacco Consequences

#### 2010-2014 Mortality Rates per 100,000 Population

	Boone	wv	Rank in WV*
Lung/Bronchus/Trachea Cancer	107.2†	80.2	7
Chronic Obstructive Pulmonary Disease	99.8	81.9	15
Cardiovascular Disease	306.1††	343.4	45

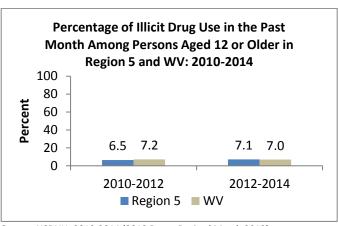
Source: WV Health Statistics Center, Vital Statistics System
\*There are 55 counties in West Virginia: 1st highest rate and 55th lower

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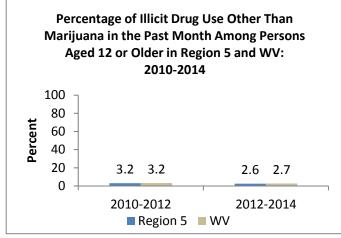


**Drug Consumption** 

## **Drug Use Among Persons 12 and Older**

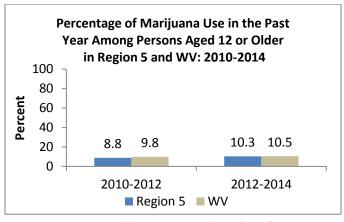


Source: NSDUH, 2010-2014 (2010 Data - Revised March 2012)
Note: Illicit Drugs include marijuana/hashish, cocaine (including crack),
heroin, hallucinogens, inhalants, or prescription-type psychotherapeutics
used nonmedically, including data from original methamphetamine
questions but not including new methamphetamine items added in 2005 and
2006. See previous definition of Region 5.



Source: NSDUH, 2010-2014 (2010 Data - Revised March 2012)

Note: Illicit Drugs Other Than Marijuana includes cocaine (including crack), heroin, hallucinogens, inhalants, or prescription-type psychotherapeutics used nonmedically, including data from original methamphetamine questions but not including new methamphetamine items added in 2005 and 2006. See previous definition of Region 5.



Source: NSDUH, 2010-2014 (2010 Data - Revised March 2012) Note: See previous definition of Region 5.

## Marijuana Use in the Past Month Among Persons Aged 12 or Older in Region 5 and WV: 2010-2014

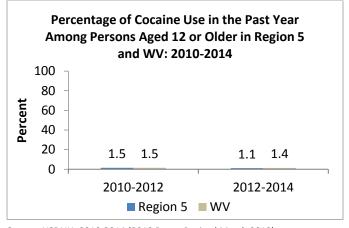
	2010-2012	2012-2014
Region 5	4.9%	5.8%
WV	5.6%	5.8%

Source: NSDUH, 2010-2014 (2010 Data - Revised March 012) Note: See previous definition of Region 5.

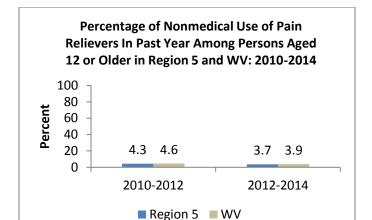
## First Use of Marijuana Among Persons Aged 12 or Older in Region 5 and WV: 2010-2014

	2010-2012	2012-2014
Region 5	1.2%	1.3%
WV	1.6%	1.4%

Source: NSDUH, 2010-2014 (2010 Data - Revised March 2012) Note: Average annual marijuana initiation rate =  $100 * \{[X1 \div (0.5 * X1 + X2)]\}$ ÷ 2}, where X1 is the number of marijuana initiates in the past 24 months and X2 is the number of persons who never used marijuana. Both of the computation components, X1 and X2, are based on a survey-weighted hierarchical Bayes estimation approach. The age group is based on a respondent's age at the time of the interview, not his or her age at first use. See previous definition of Region 5.



Source: NSDUH, 2010-2014 (2010 Data - Revised March 2012) Note: See previous definition of Region 5.



Source: NSDUH, 2010-2014 (2010 Data - Revised March 2012)

Note: See previous definition of Region 5.

## Drug Risk & Protective Factors

## Perceptions of Great Risk of Smoking Marijuana Once a Month Among Persons Aged 12 or Older in Region 5 and WV: 2010-2014

	2010-2012	2012-2014
Region 5	37.6%	33.8%
WV	37.1%	33.5%

## Illicit Drug Dependence or Abuse in the Past Year Among Persons Aged 12 or Older in Region 5 and WV: 2010-2014

	2010-2012	2012-2014
Region 5	3.0%	3.1%
WV	2.8%	2.8%

## Illicit Drug Dependence in the Past Year Among Persons Aged 12 or Older in Region 5 and WV: 2010-2014

	2010-2012	2012-2014
Region 5	2.2%	2.1%
WW	2 1%	2.0%

## **Needing But Not Receiving Treatment for Illicit Drug Use** in the Past Year Among Persons Aged 12 or Older in Region 5 and WV: 2010-2014

	2010-2012	2012-2014
Region 5	2.6%	2.8%
WV	2.5%	2.5%

Source: NSDUH, 2010-2014 (2010 Data - Revised March 2012) Note: Illicit Drugs include marijuana/hashish, cocaine (including crack), heroin, hallucinogens, inhalants, or prescription-type psychotherapeutics used nonmedically, including data from original methamphetamine questions but not including new methamphetamine items added in 2005 and 2006. Dependence or abuse is based on definitions found in the 4th edition of the Diagnostic and Statistical Manual of Mental Disorders (DSM-IV). Needing But Not Receiving Treatment refers to respondents classified as needing treatment for illicit drugs, but not receiving treatment for an illicit drug problem at a specialty facility (i.e., drug and alcohol rehabilitation facilities [inpatient or outpatient], hospitals [inpatient only], and mental health centers). See previous definition of Region 5.

## **Drug Consequences**

#### 2013 Morbidity Rates per 10,000 Discharges

	Boone	wv	Rank in WV*
<b>Drug Related Diagnosis</b>	186.9	441.5	18

Source: WV Health Care Authority

There are 55 counties in West Virginia; 1st highest rate and 55th lowest rate.

#### 2010-2014 Mortality Rates per 100,000 Population

	Boone	wv	Rank in WV*
Drug Overdose	89.9†	32.0	3

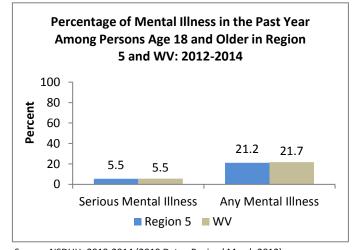
Source: WV Health Statistics Center, Vital Statistics System

\*There are 55 counties in West Virginia; 1<sup>st</sup> highest rate and 55<sup>th</sup> lowest rate. Significance: † Indicates county was significantly higher than state. †† Indicates state was significantly higher than county.



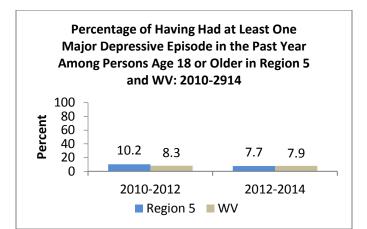
Mental Health

#### **Mental Health Among Persons 18 and Older**



Source: NSDUH, 2010-2014 (2010 Data - Revised March 2012)

Note: See previous definition of Region 5.



Source: NSDUH, 2010-2014 (2010 Data - Revised March 2012)

Note: See previous definition of Region 5.

## Suicide

## Had Serious Thoughts of Suicide in the Past Year Among Persons Aged 18 or Older in Region 5 and WV: 2010-2014

	2010-2012	2012-2014
Region 5	4.8%	4.8%
WV	4.6%	4.6%

Source: NSDUH, 2010-2014 (2010 Data - Revised March 2012)

Note: See previous definition of Region 5.

#### 2010-2014 Mortality Rates per 100,000 Population

	Boone	wv	Rank in WV*
Suicide	21.4	17.4	13

Source: WV Health Statistics Center, Vital Statistics System

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## Homelessness

#### **Reported Point-In-Time Sheltered Subpopulations in 2015**

	KVC*		WV	
	#	%	#	%
<b>Chronically Homeless</b>	45	13.2%	226	16.1%
Veterans	33	9.7%	227	16.2%
Mental Illness	119	34.9%	410	29.2%
Chronic Substance Abuse	72	21.1%	301	21.5%
<b>Total Sheltered</b>	341		1,4	103

## Reported Point-In-Time Unsheltered Subpopulations in 2015

	KVC*		WV	
	#	%	#	%
<b>Chronically Homeless</b>	18	40.9%	160	37.0%
Veterans	4	9.1%	78	18.1%
Mental Illness	18	40.9%	198	45.8%
Chronic Substance Abuse	10	22.7%	154	35.6%
HIV/AIDS	NA	NA	3	0.7%
<b>Domestic Violence</b>	NA	NA	66	15.3%
Total Unsheltered	44		432	

Source: West Virginia Coalition to End Homelessness, West Virginia Point in Time Count Statewide Report, January 2015

Note: The Point-in-Time Count is conducted during one night in the end of January for a count of all homeless persons. The unsheltered count of the homeless population is likely underreported and should be used with caution. Subpopulation data is not mutually exclusive. Comparing the total is not an accurate representation as one person may have all five characteristics, while some persons may only have one or fewer. \*The Kanawha Valley Collective (KVC) is made up of the following counties: Boone, Clay, Kanawha, and Putnam.

## **Domestic Violence**

# Individuals Served by the West Virginia Coalition Against Domestic Violence (WVCADV) by Shelter Status in Boone County in 2012

Shelter Status	Number
Sheltered	7
Non-sheltered	214

## Domestic Violence Survivors Served by WVCADV by Behavioral Health Status in Boone County in 2012

Behavioral Health Status	Number	Percent
Identified as having a mental disability	*	*
Referred to a mental health provider	*	*

## Domestic Violence Abusers Served by WVCADV by Behavioral Health Status in Boone County in 2012

•		
Behavioral Health Status	Number	Percent
Substance abuse identified as contributing to abuse	73	22.5%
Referred to a mental health provider	*	*

Source: WV Coalition Against Domestic Violence

Note: All indicators are self-reported from the survivor.

For additional resources visit the West Virginia
Department of Health and Human Resources, Bureau for
Behavioral Health and Health Facilities (BBHHF) at:

www.wvdhhr.org/bhhf

<sup>\*</sup>Values based on 5 or fewer are suppressed to protect the confidentiality of the person.