

Missouri Opioid Overdose and Bloodborne Infection Vulnerability Assessments Supplementary Data



Barry County

Barry County is located in southwest Missouri along the Arkansas border and between years 2013 to 2017 had an estimated population of 35,398. Barry County ranks 33 in population size among Missouri's 114 counties plus the independent city of St. Louis. The 2013-2017 unemployment rate in the county was 8.0%. This was higher than the statewide unemployment rate of 5.8%. In 2013-2017, the poverty rate was 20.5%, which was higher than the statewide poverty rate of 14.6%. The 2013-2017 median income of the county was \$40,638. The population distribution is as follows:

Figure 1: Barry County Population 2013-2017 5-Year Estimates

Demographics – Total Population									
Sex	Count	Percent		Age Group	Percent				
Male	17,782	50.2		0 – 9 years	4,255	12.0			
Female	17,616	49.8		10 – 14 years	2,364	6.7			
Race				15 – 19 years	2,537	7.2			
Black/African									
American alone	115	0.3		20 – 24 years	1,823	5.2			
White alone	33,126	93.6		25 – 39 years	5,668	16.0			
Other	2,157	6.1		40 – 59 years	9,136	25.8			
Ethnicity				Over 60 years	9,615	27.2			
Hispanic	3,169	9.0		Median Age	43.2 years				
Non-Hispanic	32,229	91.0							

The Department of Health and Senior Services conducted two vulnerability assessments of Missouri counties. The indicators used for these assessments are included in the table below.

Figure 2: Comparison of Indicators for Missouri Vulnerability Assessments

	Opioid Overdose	Both	Bloodborne Infection			
Opioid-related Substance Use Disorder Treatment (SUDT) Admissions		Drug Overdose Deaths†‡¥	Bloodborne Illnesses (HIV, Acute and Chronic Hepatitis B, and Acute and Chronic Hepatitis C)†‡			
Individual Out (Weight x	Self-reported Frequent (>14 Per Month) Poor Mental Health Days	Opioid Misuse Emergency Room (ER) Visits	Hepatitis C Virus Among Ages 18 to 40			
Indiv		Drug-related Arrests	Injection Drug Use (IDU) Among Persons Receiving SUDT			
actors 1)		Median Income†‡				
Fact × 1)		Poverty†				
ımunity (Weight		Lack of a High School Education†				
Community (Weight		Unemployment†‡				
Con		Uninsured†				

[†] These indicators were considered for the National Vulnerability Assessment.

[‡] Analysis completed for the National Vulnerability Assessment found these indicators to be more strongly associated with acute hepatitis C virus infection, which was considered a proxy for unsafe injection drug use.

[¥] Drug Overdose Deaths = (0.5 weight x county of residence rate) + (0.5 weight x county of record rate).

Figure 3 shows the distribution of the final ranks among five quintiles. In the Missouri vulnerability assessments, Barry County ranked 77 (4th quintile) for vulnerability to opioid overdoses. Barry County ranked 93 (5th quintile) for vulnerability to bloodborne infections. In the Missouri assessments, counties in the fifth quintile are considered to be more vulnerable. Please note that Figure 3 shows the distribution when no ties occur. When a tie occurs on a break point, a shift in the distribution may occur.

Figure 3: Distribution of Final Ranks

Final Ranks	Quintile Points	Vulnerability Level
1-23	1	
24-46	2	
47-69	3	
70-92	4	
93-115	5	More vulnerable

Figure 4 Missouri Opioid Overdose Vulnerability Assessment

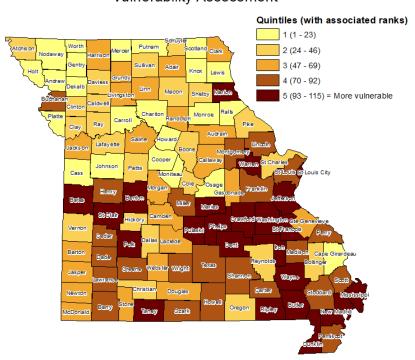


Figure 5: Individual Outcome Indicators

NOTE: Rates based on counts of 1 to 19 are considered unreliable and are shaded in gray.

Opioid Overdose Vulnerability Assessment Indicators											
County	Count: Drug Overdose (OD) Deaths by Residence County	Rate: Drug OD Deaths by Residence County	Count: Drug OD Deaths by County of Record	Rate: Drug OD Deaths by County of Record	Count: Opioid Misuse ER Visits	Rate: Opioid Misuse ER Visits	Count: Opioid- related SUDT	Rate: Opioid- related SUDT	Count: Drug-related Arrests	Rate: Drug-related Arrests	Rate: Self-reported Frequent Poor Mental Health Days
Barry	14	13.1	8	7.5	126	1.2	26	72.9	150	420.5	14.1
Missouri	3,784	20.7	3,868	21.1	25,889	1.4	6,754	110.5	43,232	707.2	13.7

Figure 6
Missouri Bloodborne Infection
Vulnerability Assessment

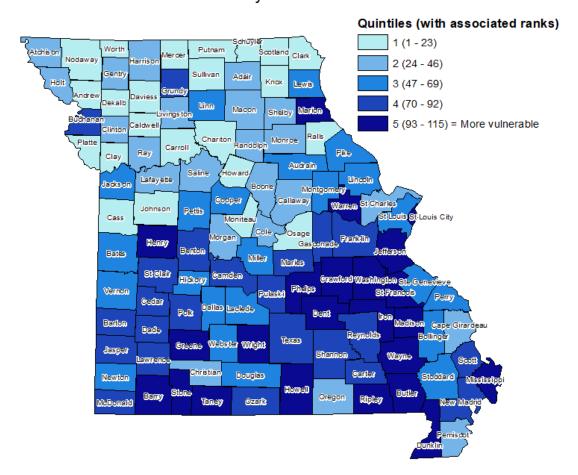


Figure 7: Individual Outcome Indicators

NOTE: Rates based on counts of 1 to 19 are considered unreliable and are shaded in gray.

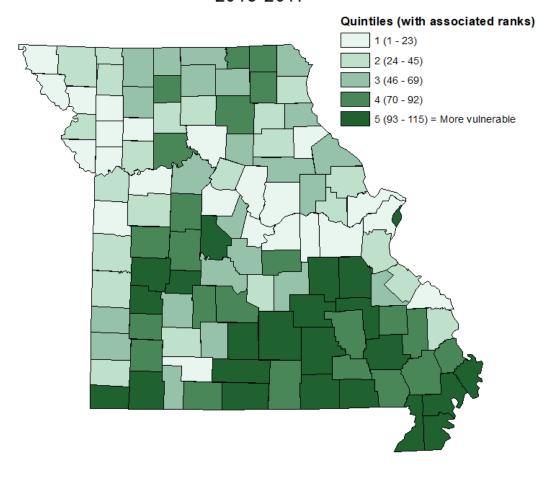
	Bloodborne Infection Vulnerability Assessment Indicators													
County	Count: Drug OD Deaths by Residence County	Rate: Drug OD Deaths by Residence County	Count: Drug OD Deaths by County of Record	Rate: Drug OD Deaths by County of Record	Count: HIV, HBV, HCV	Rate: HIV, HBV, HCV	Count: HCV Among Ages 18 to 40	Rate: HCV Among Ages 18 to 40	Count: Opioid Misuse ER Visits	Rate: Opioid Misuse ER Visits	Count: IDU Among SUDT Recipients	Rate: IDU Among SUDT Recipients	Count: Drug-related Arrests	Rate: Drug-related Arrests
Barry	14	13.1	8	7.5	126	117.5	44	165.5	126	1.2	42	117.8	150	420.5
Missouri	3,784	20.7	3,868	21.1	17,628	96.4	5,532	100.0	25,889	1.4	6,958	113.8	43,232	707.2

Figure 8: Community Factors

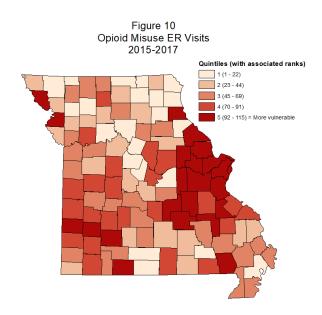
rigare of community ractors										
Barry County										
ACS Data 2013-2017 Rate Rank Quintile										
Lack of a High School Education	18.4%	93	5th							
Median Income	\$40,638	80	4th							
Poverty	20.5%	88	4th							
Unemployment	8.0%	95	5th							
Uninsured	16.3%	97	5th							

Social and economic factors within a community may impact available resources and influence vulnerability to opioid overdoses and bloodborne infections. Many of these indicators are interrelated. Data are from the U.S. Census Bureau's 2013-2017 American Community Survey (ACS).

Figure 9 Community Factors 2013-2017



Selected Individual Outcome Indicators

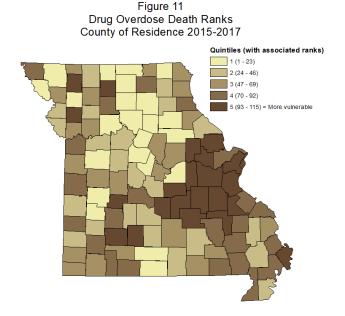


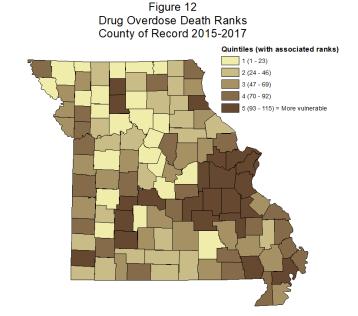
The 2015-2017 number of emergency room visits due to opioid misuse was 126, at a rate of 1.2 visits per 1,000 residents. This is rank 90 (4th quintile) for this indicator.

Barry County ranks 46 (2nd quintile) on the 2015-2017 combined drug overdose death rate indicator. This indicator considers both the decedent's county of residence and the decedent's county of record, which can be considered a proxy for the location of death.

By county of residence, the 2015-2017 number of Barry County drug overdose deaths was 14, at a rate of 13.1 deaths per 100,000 population.

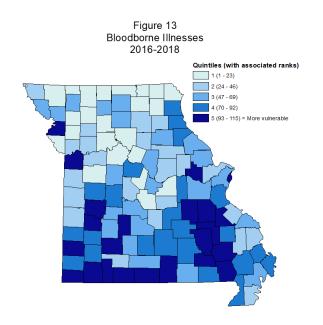
By county of record, the 2015-2017 number of Barry County drug overdose deaths was 8, at a rate of 7.5 deaths per 100,000 population.

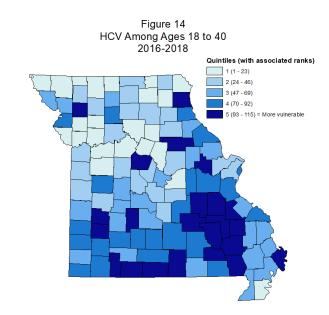




New cases of reported bloodborne illnesses (acute and chronic hepatitis B virus (HBV), acute and chronic hepatitis C virus (HCV), and human immunodeficiency virus (HIV)) in Barry County totaled 126 for 2016-2018, at a rate of 117.5 cases per 100,000 residents. This is rank 102 (5th quintile) for bloodborne illnesses.

Per the Centers for Disease Control and Prevention (CDC), "adults under 40 have the highest rate of new infections, largely because of the opioid crisis." In Barry County, 44 new cases of acute and chronic HCV were identified among the 18- to 40-year-old age group in 2016-2018, for a rate of 165.5 cases per 100,000 residents. Barry County ranks 90 (4th quintile) for this indicator.





Acute and chronic hepatitis C also significantly impact the 41- to 65-year-old age group. In 2016-2018, there were 60 new cases of acute and chronic hepatitis C identified in this age group, at a rate of 167.3 cases per 100,000 residents.

Out of 111 acute and chronic HCV cases in Barry County, 67 (60.4%) were male. For the cases in which race was identified, 0 (0.0%) were African American. However, please interpret race data for HCV with caution, as race was not identified in 27 (24.3%) of all 2016-2018 HCV cases in Barry County.

AIDS = Acquired Immunodeficiency Syndrome

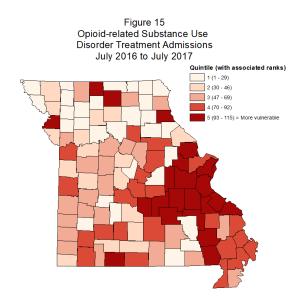
STD = Sexually Transmitted Disease

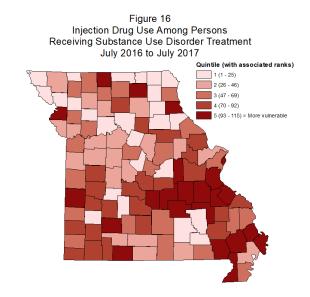
TB = Tuberculosis

[†] Centers for Disease Control and Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention. CDC Estimates Nearly 2.4 Million Americans Living with Hepatitis C. (November 6, 2018). Accessed October 8, 2019, from https://www.cdc.gov/nchhstp/newsroom/2018/hepatitis-c-prevalence-estimates-press-release.html.

The number of people who received opioid-related substance use disorder treatment from July 1, 2016 to June 30, 2017 was 26, a rate of 72.9 persons per 100,000 population, placing this county in rank 78 (4th quintile). This indicator was used only in the opioid overdose vulnerability assessment.

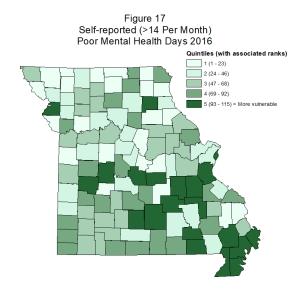
The number of persons receiving substance use disorder treatment and prior to treatment reported injecting drugs was 42, a rate of 117.8 persons per 100,000 population, placing this county in rank 74 (4th quintile). This indicator was used only in the bloodborne infection vulnerability assessment.

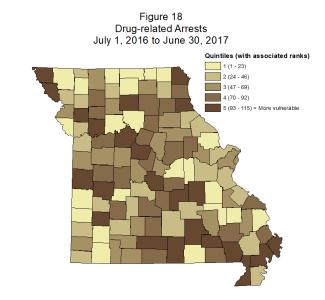




In 2016, 14.1 percent of Barry County adults 18 years of age or older reported more than 14 poor mental health days per month. This placed Barry County in rank 61 (3rd quintile) for this indicator in the opioid overdose vulnerability assessment.

Between July 1, 2016 and June 30, 2017, a total of 150 drug-related arrests occurred in Barry County, at a rate of 420.5 arrests per 100,000 population. Barry County ranks 16 (1st quintile) for this indicator, which was used in both assessments.





References

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- Drug Overdose Deaths: Missouri DHSS, Bureau of Health Care Analysis and Data Dissemination (BHCADD). Calculated from 2015-2017 death certificate data and 2015-2017 population data. Rates reported per 100,000 population.
- Drug-related Arrests: Missouri Department of Mental Health. Calculated from a data file of FY 2017 arrests (as of December 2018) provided by the Division of Behavioral Health on December 3, 2019, and population data from 2017. Rates reported per 100,000 population.
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Suggested Citation:

Missouri Department of Health and Senior Services, Bureau of Reportable Disease Informatics. Missouri Opioid Overdose and Bloodborne Infection Vulnerability Assessments Supplementary Data: Barry County. Available at https://health.mo.gov/data/opioids/assessments.php. Accessed Month Day, Year.