

Missouri Opioid Overdose and Bloodborne Infection Vulnerability Assessments Supplementary Data



Iron County

Iron County is located in southeast Missouri and between years 2013 to 2017 had an estimated population of 10,286. Iron County ranks 85 in population size among Missouri's 114 counties plus the independent city of St. Louis. The 2013-2017 unemployment rate in the county was 8.6%. This was higher than the statewide unemployment rate of 5.8%. In 2013-2017, the poverty rate was 21.2%, which was higher than the statewide poverty rate of 14.6%. The 2013-2017 median income of the county was \$36,457. The population distribution is as follows:

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

Demographics – Total Population									
Sex	Count	Percent	Percent Age Group Count						
Male	5,114	49.7		0 – 9 years	1,006	9.8			
Female	5,172	50.3		10 – 14 years	705	6.9			
Race				15 – 19 years	6.3				
Black/African									
American alone	159	1.5		20 – 24 years	543	5.3			
White alone	9,875	96.0		25 – 39 years	1,592	15.5			
Other	252	2.4		40 – 59 years	2,915	28.3			
Ethnicity				Over 60 years	2,880	28.0			
Hispanic	180	1.7		Median Age	45.3 years				
Non-Hispanic	10,106	98.3							

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
tcomes (3)	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 Outco (Weight x 3)	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
ors		Median Income†‡	
Factors x 1)		Poverty†	
munity (Weight		Lack of a High School Education†	
mmunity (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: Distribution of Final Ranks

Figure 3 shows the distribution of the final ranks among five quintiles. In the Missouri vulnerability assessments, Iron County ranked 111 (5th quintile) for vulnerability to opioid overdoses. Iron County ranked 109 (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.

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

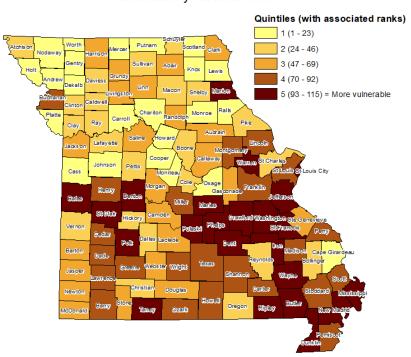


Figure 5: Individual Outcome Indicators

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
Iron	10	32.9	7	23.0	102	3.4	12	117.3	24	234.7	19.6
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

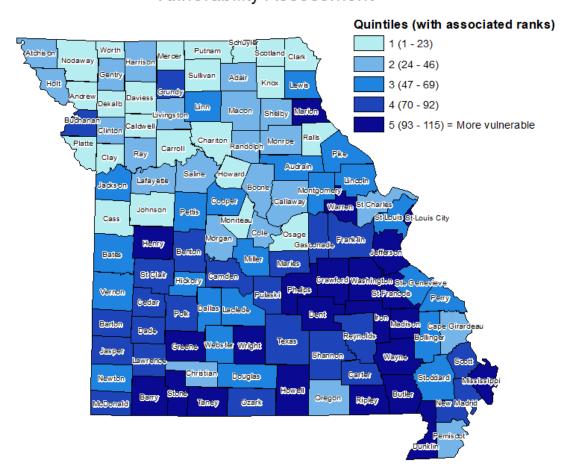


Figure 7: Individual Outcome Indicators

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

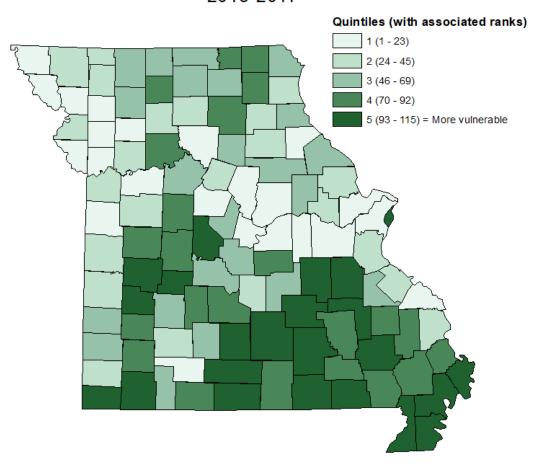
Bloodborne Infection Vulnerability Assessment Indicators														
County	Count: Drug OD Deaths by Residence County	Rate: Drug OD Deaths by Residence County	Count: Drug OD Deaths by County of Record	Rate: Drug OD Deaths by County of Record	Count: HIV, HBV, HCV	Rate: HIV, HBV, HCV	Count: HCV Among 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
Iron	10	32.9	7	23.0	40	131.7	19	255.7	102	3.4	19	185.8	24	234.7
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

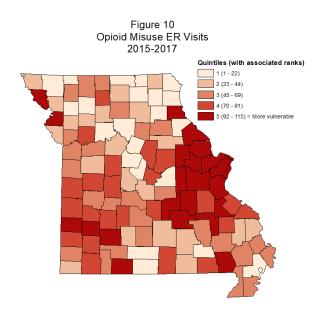
Figure 8. Community Factors										
Iron County										
ACS Data 2013-2017 Rate Rank Quintile										
Lack of a High School Education	19.3%	98	5th							
Median Income	\$36,457	97	5th							
Poverty	21.2%	93	5th							
Unemployment	8.6%	103	5th							
Uninsured	14.9%	87	4th							

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

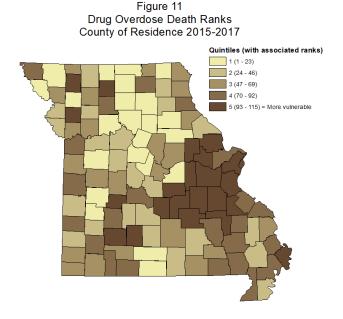


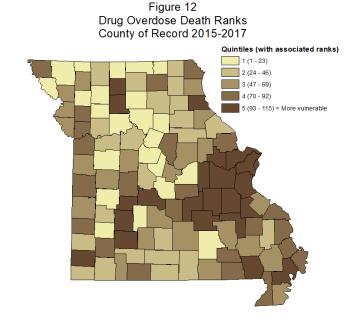
The 2015-2017 number of emergency room visits due to opioid misuse was 102, at a rate of 3.4 visits per 1,000 residents. This is rank 113 (5th quintile) for this indicator.

Iron County ranks 109 (5th 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 Iron County drug overdose deaths was 10, at a rate of 32.9 deaths per 100,000 population.

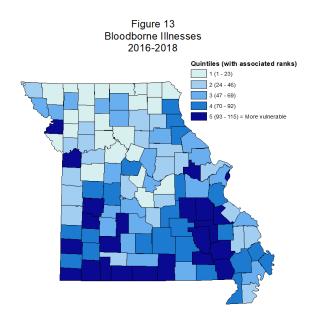
By county of record, the number of Iron County drug overdose deaths was 7, at a rate of 23.0 deaths per 100,000 population.

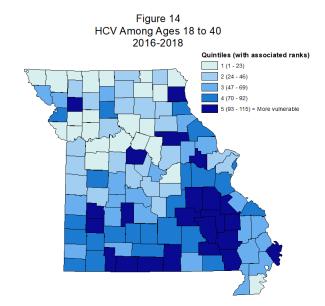




New cases of reported bloodborne illnesses (acute and chronic hepatitis B virus (HBV), acute and chronic hepatitis C virus (HCV), and human immunodeficiency virus (HIV)) for Iron County totaled 40 for 2016-2018, at a rate of 131.7 cases per 100,000 residents. This is rank 103 (5th quintile) for this indicator.

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 Iron County, 19 new cases of acute and chronic HCV were identified among the 18- to 40-year-old age group, for a rate of 255.7 cases per 100,000 residents. Iron County ranks 107 (5th 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 16 new cases of acute and chronic hepatitis C identified in this age group, at a rate of 148.2 cases per 100,000 residents.

Out of 37 acute and chronic HCV cases in Iron County, 13 (35.1%) 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 20 (54.1%) of all 2016-2018 HCV cases in Iron County.

AIDS = Acquired Immunodeficiency Syndrome

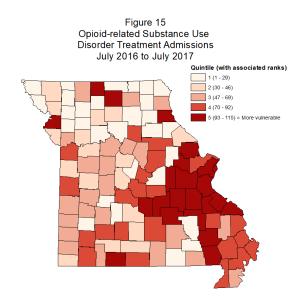
STD = Sexually Transmitted Disease

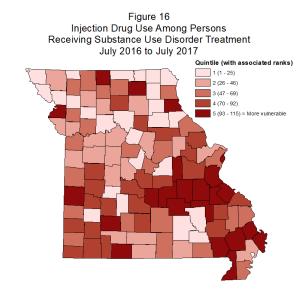
TB = Tuberculosis

[†] 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 12, a rate of 117.3 persons per 100,000 population, placing this county in rank 96 (5th quintile). This indicator was used only in the opioid overdose vulnerability assessment.

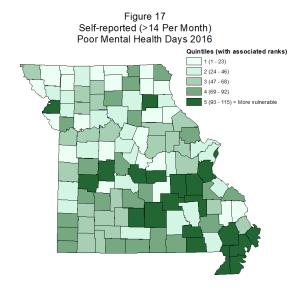
The number of persons receiving substance use disorder treatment and prior to treatment reported injecting drugs was 19, a rate of 185.8 persons per 100,000 population, placing this county in rank 104 (5th quintile). This indicator was used only in the bloodborne infection vulnerability assessment.

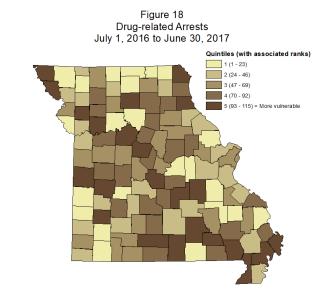




In 2016, 19.6 percent of Iron County adults 18 years of age or older reported more than 14 poor mental health days per month. This placed Iron County in rank 108 (5th quintile) for this indicator in the opioid overdose vulnerability assessment.

Between July 1, 2016 and June 30, 2017, a total of 24 drug-related arrests occurred in Iron County, at a rate of 234.7 arrests per 100,000 population. Iron County in ranks 6 (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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- Median Income: U.S. Census Bureau. 2013-2017 American Community Survey 5-Year Estimates. S1903 Median Income in the Past 12 Months (in 2017 Inflation-adjusted Dollars). Accessed March 10, 2020, from American FactFinder at https://factfinder.census.gov/.
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Suggested Citation:

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