

# Missouri Opioid Overdose and Bloodborne Infection Vulnerability Assessments Supplementary Data



## **Phelps County**

Phelps County is located in central Missouri and between years 2013 to 2017 had an estimated population of 44,873. Phelps County ranks 23 in population size among Missouri's 114 counties plus the independent city of St. Louis. The 2013-2017 unemployment rate in the county was 6.3%. This was higher than the statewide unemployment rate of 5.8%. In 2013-2017, the poverty rate was 20.4%, which was higher than the statewide poverty rate of 14.6%. The median income of the county was \$41,681. The population distribution is as follows:

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

Demographics – Total Population									
Sex	Count	Percent		Age Group	Age Group Count				
Male	23,605	52.6		0 – 9 years	5,435	12.1			
Female	21,268	47.4		10 – 14 years	2,540	5.7			
Race				15 – 19 years	3,585	8.0			
Black/African									
American alone	1,223	2.7		20 – 24 years	5,458	12.2			
White alone	40,823	91.0		25 – 39 years	7,973	17.8			
Other	2,827	6.3		40 – 59 years	10,528	23.5			
Ethnicity				Over 60 years	9,354	20.8			
Hispanic	1,086	2.4		Median Age	34.8 years				
Non-Hispanic	43,787	97.6				_			

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

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	Opioid Overdose	Both	Bloodborne Infection						
Outcomes ht x 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 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						
ors		Median Income†‡							
Factors x 1)		Poverty†							
ımunity (Weight		Lack of a High School Education†							
Community (Weight		Unemployment†‡							
Con		Uninsured†							

<sup>†</sup> These indicators were considered for the National Vulnerability Assessment.

<sup>‡</sup> 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.

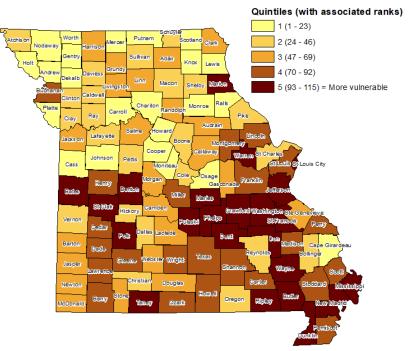
<sup>¥</sup> Drug Overdose Deaths = (0.5 weight x county of residence rate) + (0.5 weight x county of record rate).

**Figure 3: Distribution of Final Ranks** 

Figure 3 shows the distribution of the final ranks among five quintiles. In the Missouri vulnerability assessments, Phelps County ranked 102 (5th quintile) for vulnerability to opioid overdoses. Phelps County ranked 107 (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

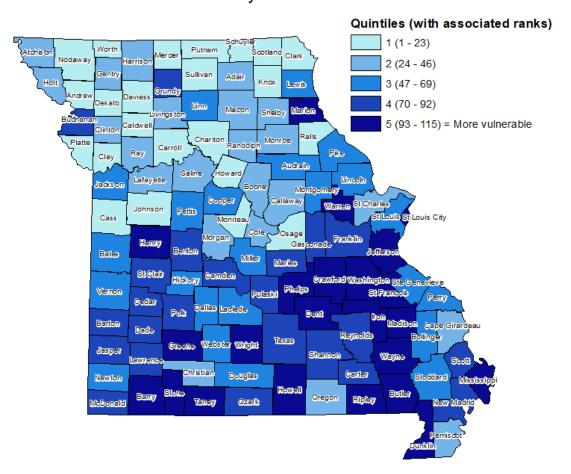
Figure 4
Missouri Opioid Overdose
Vulnerability Assessment



**Figure 5: Individual Outcome Indicators** 

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
Phelps	31	23.1	32	23.9	214	1.6	111	248.1	572	1,278.4	10.2
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** 

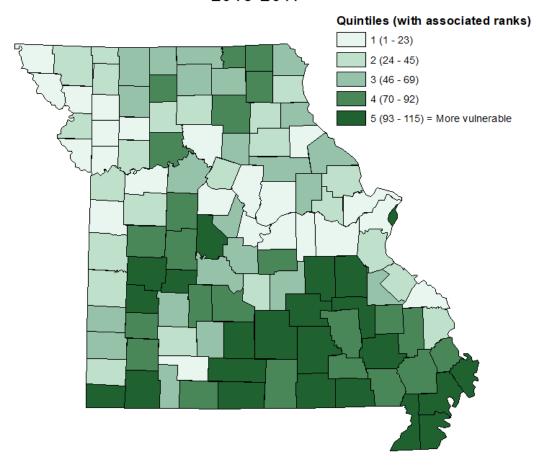
Bloodborne Infection Vulnerability Assessment Indicators														
County	Count: Drug OD Deaths by Residence County	Rate: Drug OD Deaths by Residence County	Count: Drug OD Deaths by County of Record	Rate: Drug OD Deaths by County of Record	Count: HIV, HBV, HCV	Rate: HIV, HBV, HCV	Count: HCV Among 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
Phelps	31	23.1	32	23.9	115	85.7	56	118.0	214	1.6	105	234.7	572	1,278.4
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** 

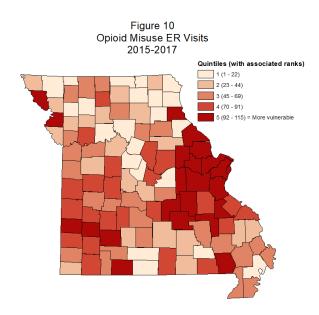
rigare of community ructors									
Phelps County									
ACS Data 2013-2017 Rate Rank Quintile									
Lack of a High School Education	13.6%	62	3rd						
Median Income	\$41,681	66	3rd						
Poverty	20.4%	87	4th						
Unemployment	6.3%	71	4th						
Uninsured	9.4%	30	2nd						

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**

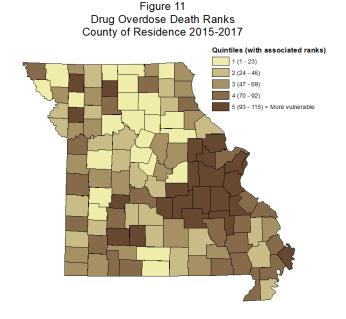


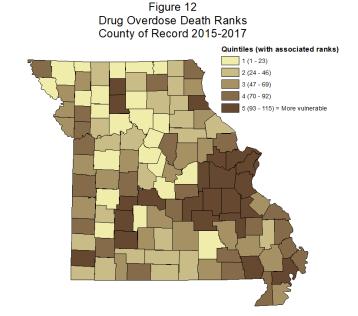
The 2015-2017 number of people who went to the emergency room due to opioid misuse 214, at a rate of 1.6 visits per 1,000 residents. This is rank 105 (5th quintile) for this indicator.

Phelps County ranks 103 (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 Phelps County drug overdose deaths was 31, at a rate of 23.1 deaths per 100,000 population.

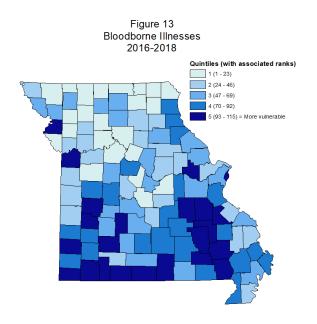
By county of record, the 2015-2017 number of Phelps County drug overdose deaths was 32, at a rate of 23.9 deaths per 100,000 population.

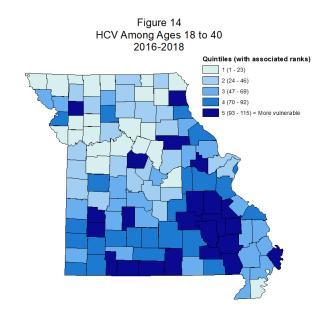




New cases of reported bloodborne illnesses (acute and chronic hepatitis B virus (HBV), acute and chronic hepatitis C virus (HCV), and human immunodeficiency virus (HIV)) in Phelps County totaled 115 for 2016-2018, at a rate 85.7 cases per 100,000 residents. This is rank 73 (4th quintile) for bloodborne 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 Phelps County, 56 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 118.0 cases per 100,000 residents. Phelps County ranks 70 (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 39 new cases of acute and chronic hepatitis C identified in this age group, at a rate of 100.0 cases per 100,000 residents.

Out of 100 acute and chronic HCV cases in Phelps County, 54 (54.0%) were male. For the cases in which race was identified, <5 (<1.4%) were African American. However, please interpret race data for HCV with caution, as race was not identified in 31 (31.0%) of all 2016-2018 HCV cases in Phelps County.

AIDS = Acquired Immunodeficiency Syndrome

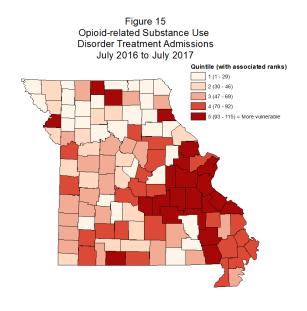
STD = Sexually Transmitted Disease

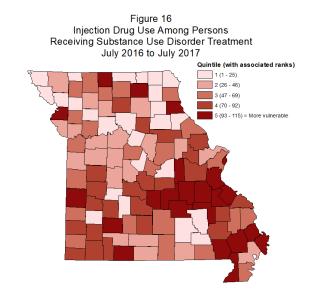
TB = Tuberculosis

<sup>†</sup> 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 <a href="https://www.cdc.gov/nchhstp/newsroom/2018/hepatitis-c-prevalence-estimates-press-release.html">https://www.cdc.gov/nchhstp/newsroom/2018/hepatitis-c-prevalence-estimates-press-release.html</a>.

The number of people who received opioid-related substance use disorder treatment from July 1, 2016 to June 30, 2017 was 111, a rate of 248.1 persons per 100,000 population, placing this county in rank 113 (5th quintile). This indicator was used only in the opioid overdose vulnerability assessment.

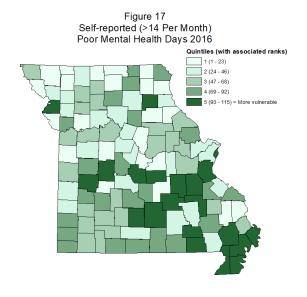
The number of persons receiving substance use disorder treatment and prior to treatment reported injecting drugs was 105, a rate of 234.7 persons per 100,000 population, placing this county in rank 110 (5th quintile). This indicator was only used in the bloodborne infection vulnerability assessment.

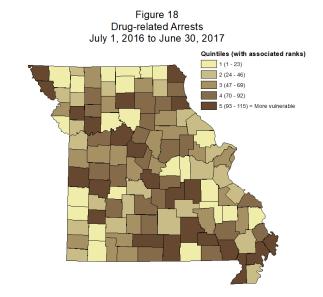




In 2016, 10.2 percent of Phelps County adults 18 years of age or older reported more than 14 poor mental health days per month. This placed Phelps County in rank 18 (1st quintile) for this indicator in the opioid overdose vulnerability assessment.

Between July 1, 2016 and June 30, 2017, a total of 572 drug-related arrests occurred in Phelps County, at a rate of 1,278.4 arrests per 100,000 population. Phelps County ranks 102 (5th quintile) for this indicator, which was used in both assessments.





#### References

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- 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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   Alcohol and Drug Use Treatment Data and 2017 population data. Rates reported per 100,000 population. Accessed March 9, 2020, from https://seow.dmh.mo.gov/TREATMENTADA/TREATMENTADAIndicators.aspx?PATH=Indicators&SID=NEW.
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### **Suggested Citation:**

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