

Missouri Opioid Overdose and Bloodborne Infection Vulnerability Assessments Supplementary Data Dent County



Dent County is located in south central Missouri and between years 2013 to 2017 had an estimated population of 15,566. Dent County ranks 68 in population size among Missouri's 114 counties plus the independent city of St. Louis. The 2013-2017 unemployment rate in the county was 7.3%. This was higher than the statewide unemployment rate of 5.8%. In 2013-2017, the poverty rate was 20.8%, which was higher than the statewide poverty rate of 14.6%. The 2013-2017 median income of the county was \$38,829. The population distribution is as follows:

Demographics – Total Population										
Sex	Count	nt Percent Age Group Count								
Male	7,774	49.9	0 – 9 years	1,930	12.4					
Female	7,792	50.1	10 – 14 years	986	6.3					
Race			15 – 19 years	1,005	6.5					
Black/African American alone	77	0.5	20 – 24 years	692	4.4					
White alone	14,941	96.0	25 – 39 years	2,459	15.8					
Other	548	3.5	40 – 59 years	4,172	26.8					
Ethnicity			Over 60 years	4,322	27.8					
Hispanic	249	1.6	Median Age	44.1 years						
Non-Hispanic	15,317	98.4								

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

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

	Figure 2. comparison of malcators for missouri varierability Assessments									
	Opioid Overdose	Both	Bloodborne Infection							
utcomes 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 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 ⁺								
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: Distribution of Final Ranks

Figure 3 shows the distribution of the final ranks among five quintiles. In the Missouri vulnerability assessments, Dent County ranked 112 (5th quintile) for vulnerability to opioid overdoses. Dent County ranked 108 (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 5. Distribution of Fillar Railes											
	Final Ranks	Quintile Points	Vulnerability Level									
	1-23	1										
1	24-46	2										
ł	47-69	3										
1	70-92	4										
	93-115	5	More vulnerable									

Figure 4 Missouri Opioid Overdose Vulnerability Assessment

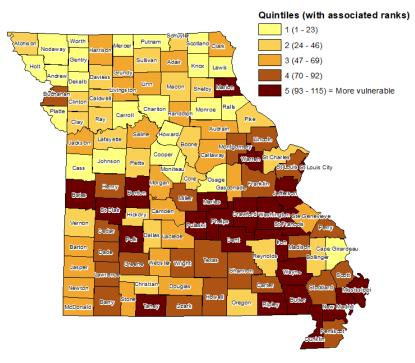


Figure 5: Individual Outcome Indicators

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
Dent	11	23.7	10	21.5	73	1.6	37	239.0	83	536.2	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

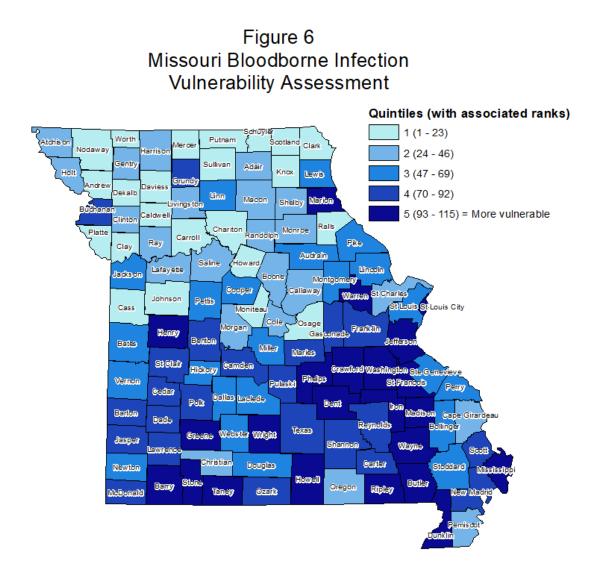


Figure 7: Individual Outcome Indicators

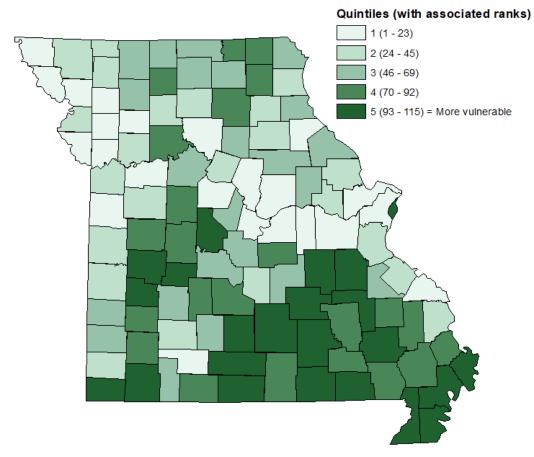
NOTE: Rates based on counts of 1 to 19 are considered unreliable and are shaded in gray.

	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
Dent	11	23.7	10	21.5	43	92.6	24	215.7	73	1.6	47	303.6	83	536.2
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

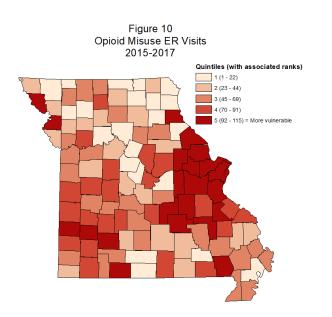
Figure 8: Community Factors									
Dent County									
ACS Data 2013-2017 Rate Rank Quintile									
Lack of a High School Education	20.4%	102	5th						
Median Income	\$38,829	88	4th						
Poverty	20.8%	91	4th						
Unemployment	7.3%	86	4th						
Uninsured	18.2%	106	5th						

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 Census Bureau's 2013-2017 American Community Survey (ACS).

Figure 9 Community Factors 2013-2017



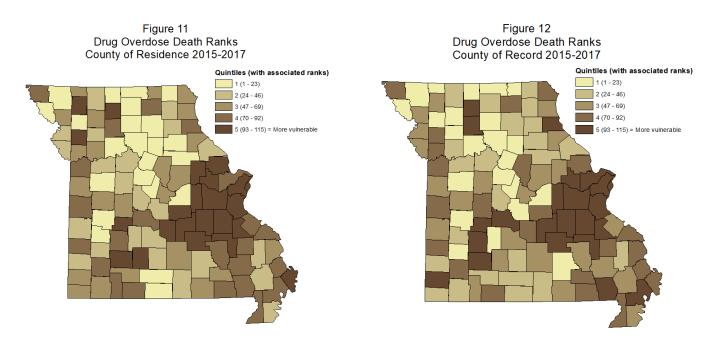
Selected Individual Outcome Indicators



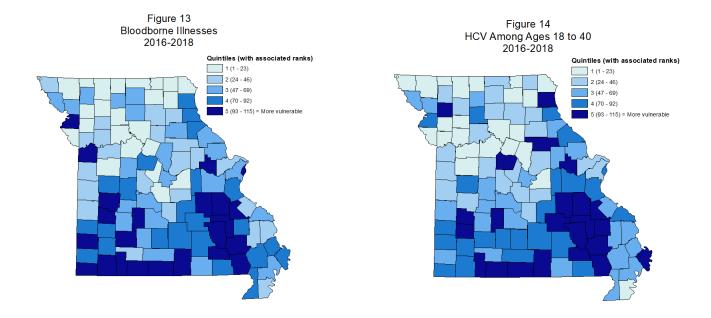
The 2015-2017 number of emergency room visits due to opioid misuse was 73, at a rate of 1.6 per 1,000 residents. This is rank 103 (5th quintile) for this indicator.

Dent County ranks 100 (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 Dent County drug overdose deaths was 11, at a rate of 23.7 per 100,000 population. By county of record, the 2015-2017 number of Dent County drug overdose deaths was 10, at a rate of 21.5 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) for Dent County totaled 43 for 2016-2018, at a rate of 92.6 cases per 100,000 residents. This is rank 81 (4th 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 Dent County, 24 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 215.7 per 100,000 residents. Dent County ranks 106 (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 identified in this age group, ata rate of 102.6 cases per 100,000 residents.

Out of 42 acute and chronic HCV cases in Dent County, 19 (45.2%) 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 14 (33.3%) of all 2016-2018 HCV cases in Dent County.

⁺ 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.

AIDS = Acquired Immunodeficiency Syndrome STD = Sexually Transmitted Disease

TB = Tuberculosis

The number of people who received opioid-related substance use disorder treatment from July 1, 2016 to June 30, 2017 was 37, a rate of 239.0 persons per 100,000 population, placing this county in rank 112 (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 47, a rate of 303.6 per 100,000 population, placing this county in rank 113 (5th quintile). This indicator was used only in the bloodborne infection vulnerability assessment.

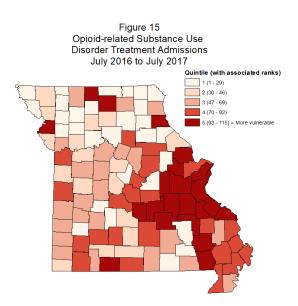
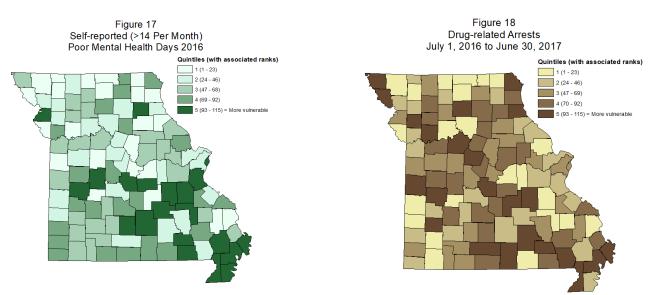


Figure 16 Injection Drug Use Among Persons Receiving Substance Use Disorder Treatment July 2016 to July 2017

In 2016, 19.6 percent of Dent County adults 18 years of age or older reported more than 14 poor mental health days per month. This placed Dent 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 83 drug-related arrests occurred in Dent County, at a rate of 536.2 arrests per 100,000 population. This placed Dent County in rank 32 (2nd 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:

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