



**Missouri Opioid Overdose and Bloodborne  
Infection Vulnerability Assessments  
Supplementary Data  
Wright County**



Wright County is located in southern Missouri and between years 2013 to 2017 had an estimated population of 18,304. Wright County ranks 59 in population size among Missouri's 114 counties plus the independent city of St. Louis. The 2013-2017 unemployment rate in the county was 8.4%. This was higher than the statewide unemployment rate of 5.8%. In 2013-2017, the poverty rate was 25.0%, which was higher than the statewide poverty rate of 14.6%. The 2013-2017 median income of the county was \$31,290. The population distribution is as follows:

**Figure 1: Wright County Population  
2013-2017 5-Year Estimates**

Demographics – Total Population					
Sex	Count	Percent	Age Group	Count	Percent
Male	9,012	49.2	0 – 9 years	2,408	13.2
Female	9,292	50.8	10 – 14 years	1,325	7.2
<b>Race</b>			15 – 19 years	1,199	6.6
Black/African American alone	109	0.6	20 – 24 years	971	5.3
White alone	17,643	96.4	25 – 39 years	2,697	14.7
Other	552	3.0	40 – 59 years	4,917	26.9
<b>Ethnicity</b>			Over 60 years	4,787	26.2
Hispanic	313	1.7	<b>Median Age</b>	42.0 years	
Non-Hispanic	17,991	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
Individual Outcomes (Weight 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)†‡
	Self-reported Frequent (>14 Per Month) Poor Mental Health Days	Opioid Misuse Emergency Room (ER) Visits	Hepatitis C Virus Among Ages 18 to 40
		Drug-related Arrests	Injection Drug Use (IDU) Among Persons Receiving SUDT
Community Factors (Weight x 1)		Median Income†‡	
		Poverty†	
		Lack of a High School Education†	
		Unemployment†‡	
		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.

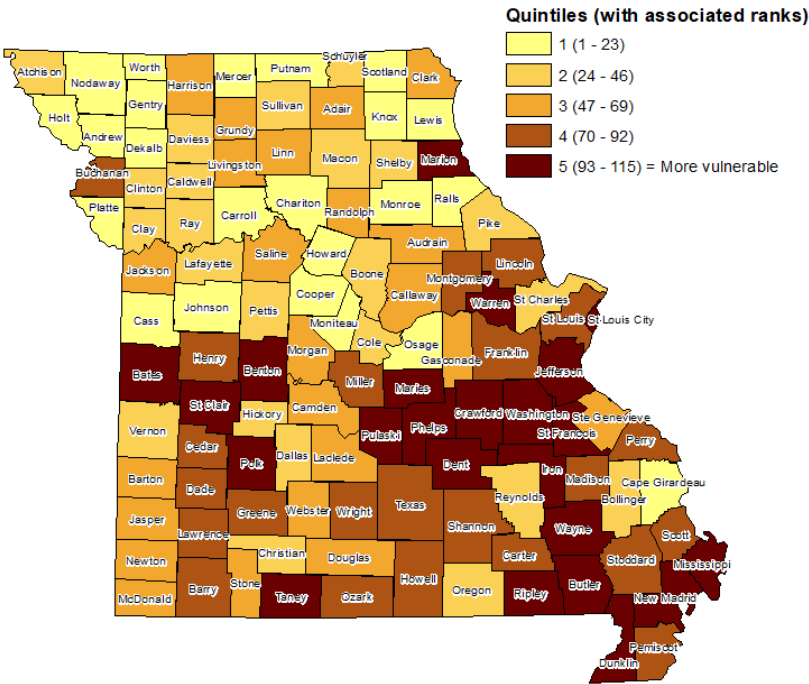
¥ Drug Overdose Deaths = (0.5 weight x county of residence rate) + (0.5 weight x county of record rate).

**Figure 3: Distribution of Final Ranks**

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

Figure 3 shows the distribution of the final ranks among five quintiles. In the Missouri vulnerability assessments, Wright County ranked 88 (4th quintile) for vulnerability to opioid overdoses. Wright County ranked 98 (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 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. Counts of 1 to 4 are suppressed due to confidentiality concerns.

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
Wright	6	10.9	<5	7.3	37	0.7	<5	27.3	176	960.1	18.1
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

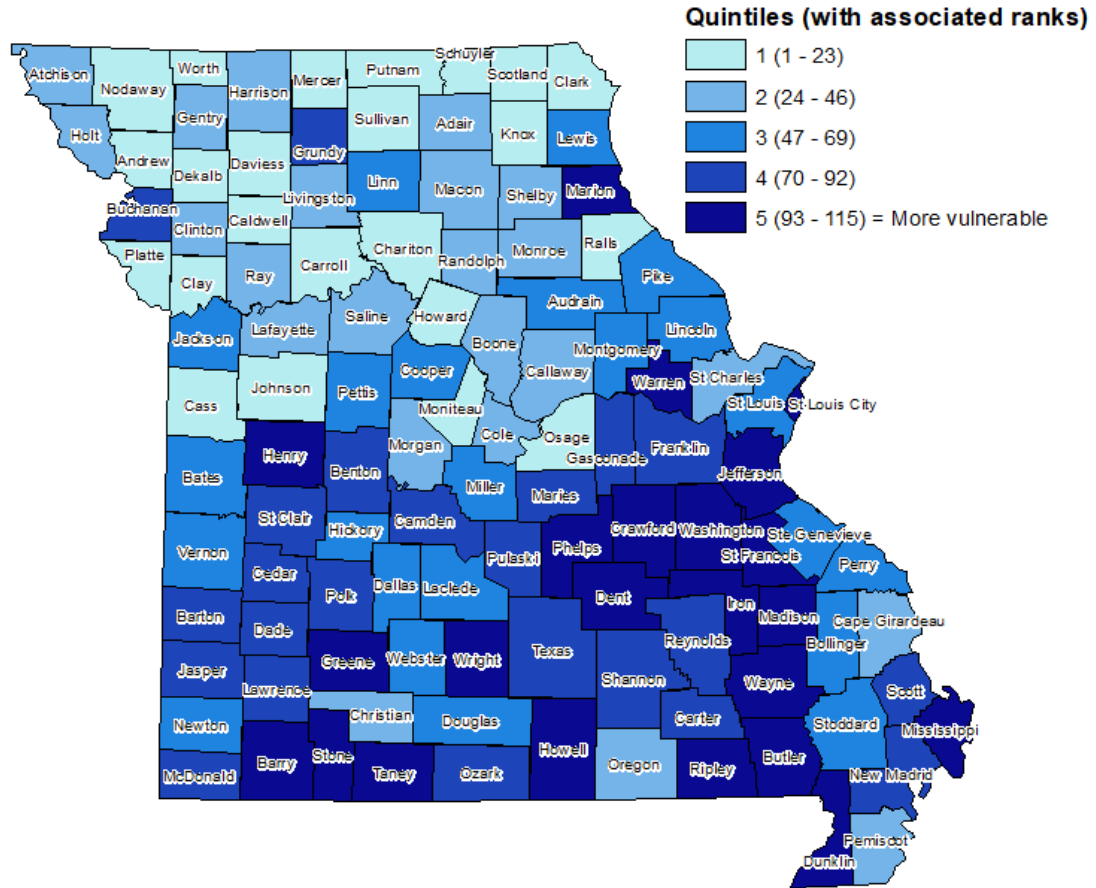


Figure 7: Individual Outcome Indicators

NOTE: Rates based on counts of 1 to 19 are considered unreliable. Counts of 1 to 4 are suppressed due to confidentiality concerns.

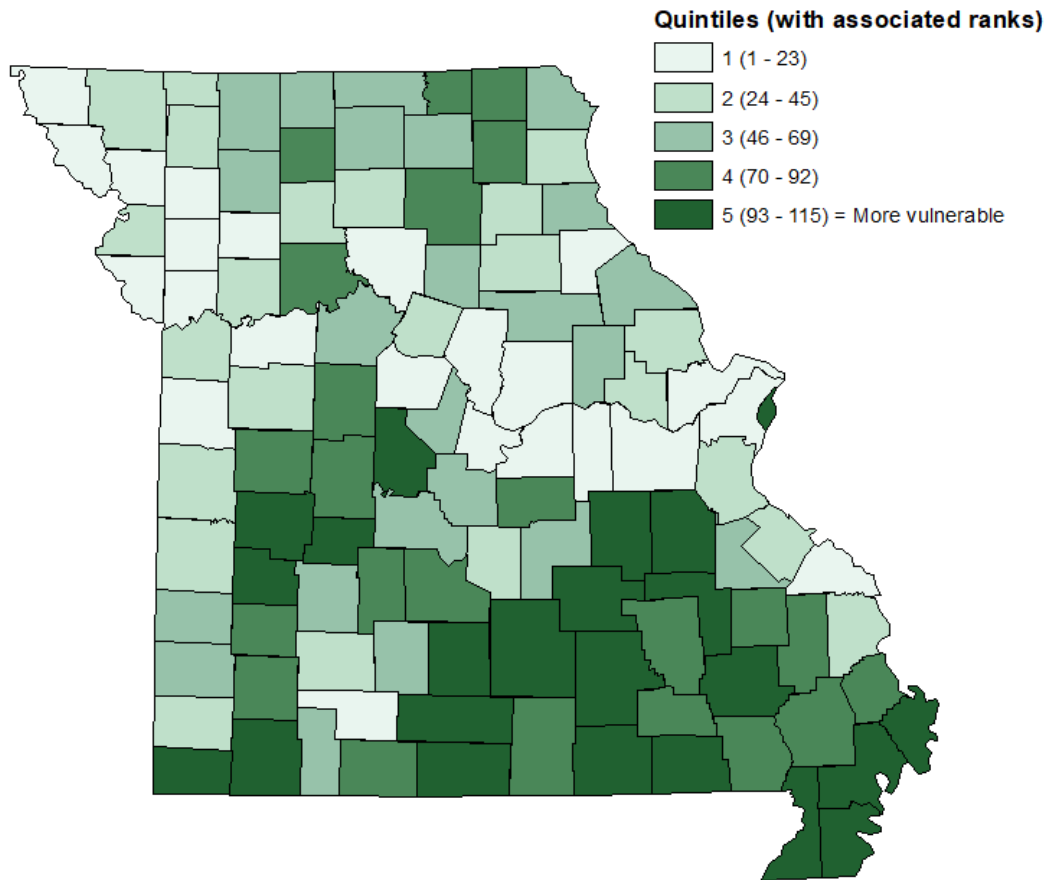
Bloodborne Infection Vulnerability Assessment Indicators														
County	Count: Drug OD Deaths by Residence County	Rate: Drug OD Deaths by Residence County	Count: Drug OD Deaths by County of Record	Rate: Drug OD Deaths by County of Record	Count: HIV, HBV, HCV	Rate: HIV, HBV, HCV	Count: HCV Among 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
Wright	6	10.9	<5	<7.3	54	98.4	17	127.9	37	0.7	23	125.5	176	960.1
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**

Wright County			
ACS Data 2013-2017	Rate	Rank	Quintile
Lack of a High School Education	19.6%	99	5th
Median Income	\$31,290	114	5th
Poverty	25.0%	105	5th
Unemployment	8.4%	101	5th
Uninsured	19.1%	108	5th

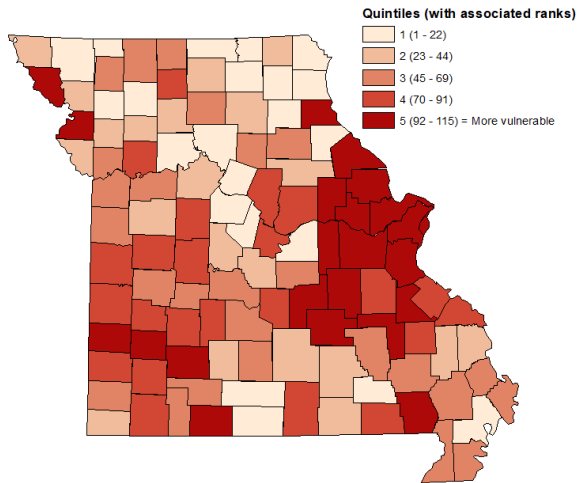
Social and economic factors within a community may impact available resources and influence vulnerability to opioid overdoses and bloodborne infections. Many of these indicators are interrelated. Data are from the U.S. Census Bureau's 2013-2017 American Community Survey (ACS).

**Figure 9  
Community Factors  
2013-2017**



**Selected Individual Outcome Indicators**

Figure 10  
Opioid Misuse ER Visits  
2015-2017



The 2015-2017 number of emergency room visits due to opioid misuse was 37, at a rate of 0.7 visits per 1,000 residents. This is rank 49 (3rd quintile) for this indicator.

Wright County ranks 37 (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 Wright County drug overdose deaths was 6, at a rate of 10.9 deaths per 100,000 population.

By county of record, the 2015-2017 number of Wright County drug overdose deaths was 5, at a rate of 7.3 deaths per 100,000 population.

Figure 11  
Drug Overdose Death Ranks  
County of Residence 2015-2017

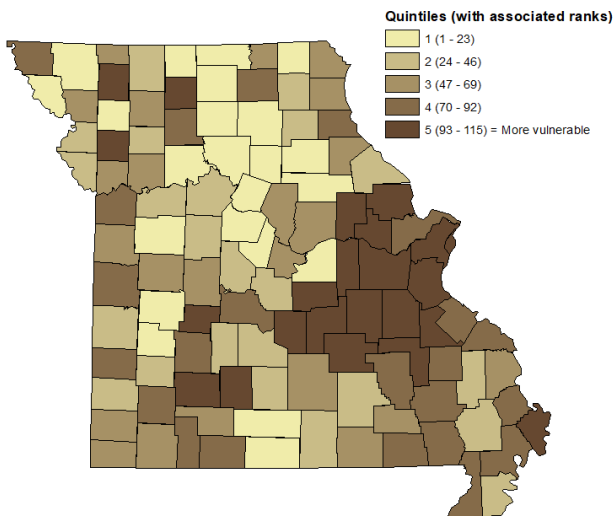
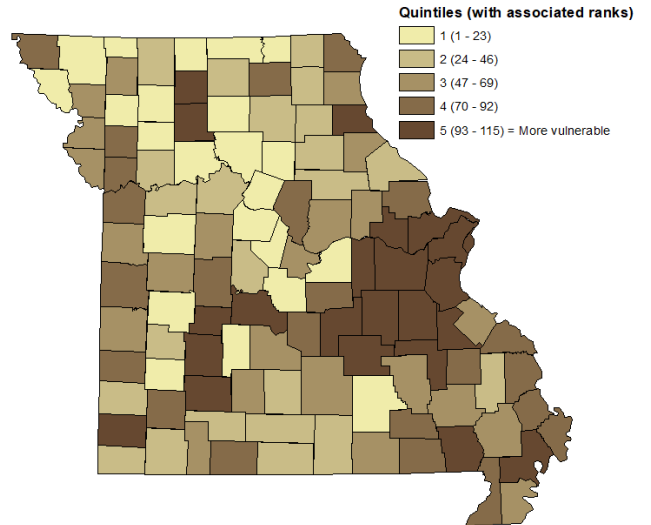


Figure 12  
Drug Overdose Death Ranks  
County of Record 2015-2017



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 Wright County totaled 54 for 2016-2018, at a rate of 98.4 cases per 100,000 residents. This is rank 88 (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.”<sup>†</sup> In Wright County, 17 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 127.9 cases per 100,000 residents. Wright County ranks 74 (4th quintile) for this indicator.

Figure 13  
Bloodborne Illnesses  
2016-2018

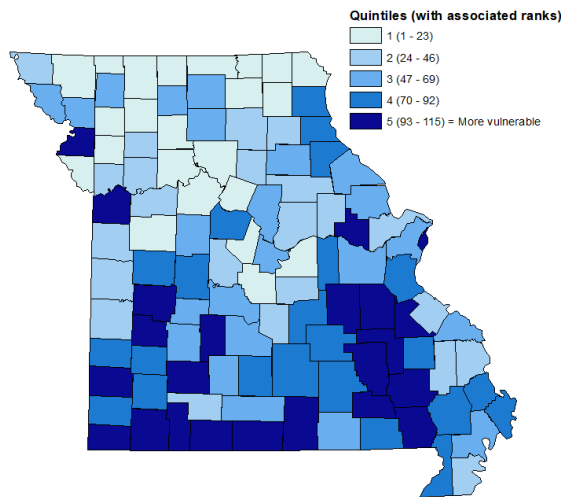
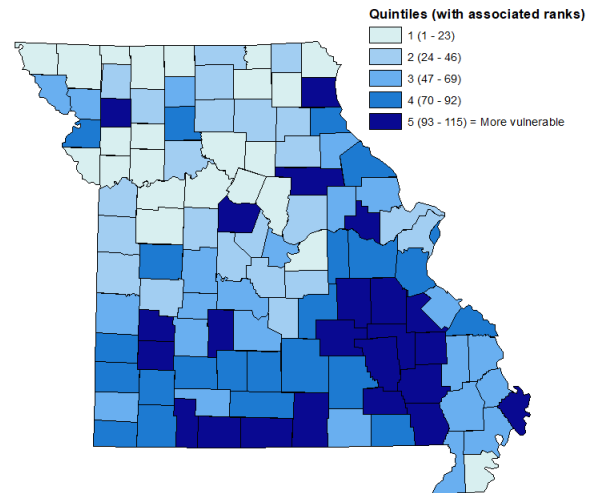


Figure 14  
HCV Among Ages 18 to 40  
2016-2018



Acute and chronic hepatitis C also significantly impact the 41- to 65-year-old age group. In 2016-2018, there were 32 new cases of acute and chronic hepatitis C identified in this age group, at a rate of 179.9 cases per 100,000 residents.

Out of 53 acute and chronic HCV cases, 29 (54.7%) were male. For the cases in which race was identified, <5 (<3.3%) were African American. However, please interpret race data for HCV with caution, as race was not identified in 23 (43.4%) of all 2016-2018 HCV cases in Wright County.

<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 <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 5, a rate of 27.3 persons per 100,000 population, placing this county in rank 33 (2nd 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 23, a rate of 125.5 persons per 100,000 population, placing this county in rank 81 (4th quintile). This indicator was used only in the bloodborne infection vulnerability assessment.

Figure 15  
Opioid-related Substance Use  
Disorder Treatment Admissions  
July 2016 to July 2017

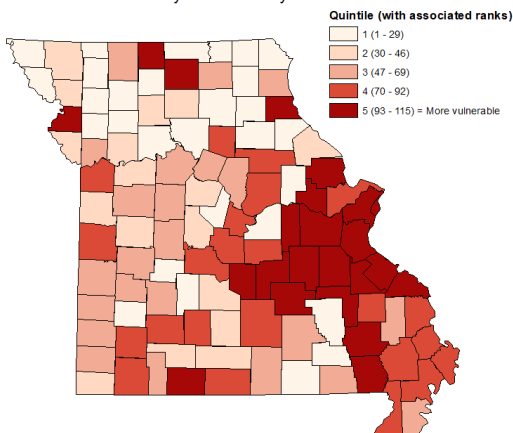
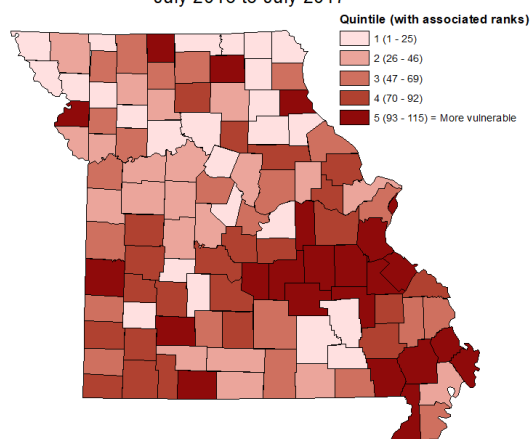


Figure 16  
Injection Drug Use Among Persons  
Receiving Substance Use Disorder Treatment  
July 2016 to July 2017



In 2016, 18.1 percent of Wright County adults 18 years of age or older reported more than 14 poor mental health days per month. This placed Wright County in rank 100 (5th quintile) for this indicator in the opioid overdose vulnerability assessment.

Between July 1, 2016 and June 30, 2017, a total of 176 drug-related arrests occurred in Wright County, at a rate of 960.1 arrests per 100,000 population. Wright County ranks 81 (4th quintile) for this indicator, which was used in both assessments.

Figure 17  
Self-reported (>14 Per Month)  
Poor Mental Health Days 2016

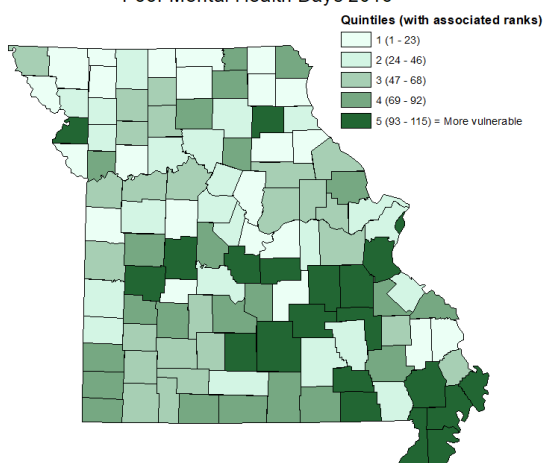
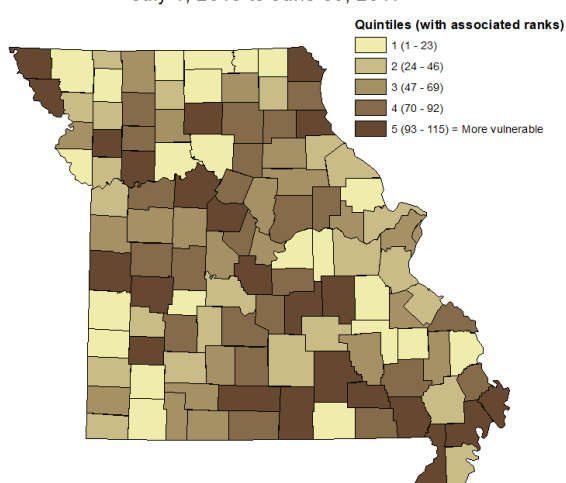


Figure 18  
Drug-related Arrests  
July 1, 2016 to June 30, 2017



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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: Wright County. Available at <https://health.mo.gov/data/opioids/assessments.php>. Accessed Month Day, Year.