

Kentucky Substance Use Research & Enforcement

Using data to drive public safety and public health efforts against substance use across the Commonwealth

Report: A Five-Year Review of Substance Use and Distribution in Kentucky, 2017–2021

A Report Examining Possession and Trafficking Citation, Drug Overdose-Related Death, Emergency Department Visit, Hospitalization and State Police Lab Submission Data Aggregated at the State and Kentucky State Police Post Levels

Released November 2022











Produced by the Kentucky State Police Intelligence Branch and the Kentucky Injury Prevention and Research Center as bona fide agent for the Kentucky Department for Public Health.

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Data Evaluation Survey



We would like to hear your feedback on the Kentucky Substance Use Research & Enforcement

(K-SURE) briefs and other outputs you use. This will help us improve future K-SURE briefs,

stakeholder engagement, dissemination, and audience receptivity. You can find the survey here:

https://uky.az1.qualtrics.com/jfe/form/SV bDzBAIOXZprzO85



Thank you in advance!

- The K-SURE Team -



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SUMMARY

Substance use and distribution are pervasive throughout Kentucky, with effects spilling over into our communities and homes. As part of a collaboration toward the prevention of drug overdose and related events, Kentucky Substance Use Research & Enforcement (K-SURE) was created. The K-SURE collaborative examines state- and county-level data from public safety and public health surveillance systems to better define the magnitude of the drug use burden as well as to make informed decisions regarding related interventions and prevention of drug overdose and exposures. This report combines public safety indicators and public health outcomes data concerning overall general drug use and misuse and covers specific drugs: heroin, opioids, methamphetamine, cocaine and fentanyl and fentanyl analogs in Kentucky from 2017–2021. The first section of this report provides descriptions and definitions of data used to describe drug-related outcomes in Kentucky. The second section highlights annual statewide substance use-related event changes, general drug overdose outcomes, and tested lab submissions from 2017-2021. The third section maps and analyzes drug-related public health (death, emergency department visits, and hospitalizations) and public safety (possession citations, trafficking citations, and crime lab submissions) outcomes at the Kentucky State Police (KSP) post level using ArcGIS/ArcMap software. Public safety indicator data are based on the county of *incidence*, and public health outcomes data are based on the county of *residence*. These analyses may be used to inform and prioritize related public safety and public health intervention and prevention efforts to curb the drug epidemic. The fourth section of this report examines the five major overdose-related substances: heroin, opioids, methamphetamine, cocaine, and fentanyl and fentanyl-related analogs from 2017–2021 at the Kentucky State Police post level. There are 16 Kentucky State Police posts serving all 120 counties across Kentucky. Each post has an information sheet breaking down the public safety indicators, public health outcomes, and direction of change in these outcomes from 2020 to 2021.





DATA SOURCES

Multi-source drug-related surveillance data were compiled for 2017–2021 and aggregated at the Kentucky State Police post level. Surveillance data sources included the Kentucky Open Portal System; Kentucky Death Certificate Database; Kentucky Outpatient Services Database; Kentucky Inpatient Hospitalization Claims Files; and Kentucky State Police Crime Laboratory. All data remain provisional and subject to change. Data were grouped by public safety indicators or public health outcomes. Public safety indicators were from trafficking and possession citations and tested lab submissions. Public health outcomes were based on drug overdose deaths, drug overdose-related emergency department visits, and drug overdoserelated inpatient hospitalizations. Please see the K-SURE Data Matrix below for more information regarding data sources, definitions, and other relevant information regarding the drug-related events covered in this brief.





K-SURE DATA MATRIX

	Emergency Department (ED) Visits	Inpatient Hospitalizations	Deaths	Possession Citations	Trafficking Citations	Crime Lab Submissions
Heroin	T401	T401	T401	KRS: 35120, 35121, 42195, 42196, 42205, 42206	KRS: 35100, 35101, 42105, 42106, 42376, 42377, 42378, 42379, 42466, 42468, 42468, 42470, 42480, 42480, 42483, 42486	Tested lab submissions represent those substances submitted to the lab for identification purposes; quantity is not reflected.
Opioids	T400, T402, T403, T404, T4060, T4069	T400, T402, T403, T404, T4060, T4069	T400, T402, T403, T404, T406	KRS: 35220, 35221, 42197, 42198, 42209, 42210, 42237, 42238, 42246	KRS: 35200, 35201, 42109, 42110, 42372, 42373, 42374, 42375, 42435, 42435, 42436, 42437, 42438, 42137, 42138	
Methamphetamine			Text scan	KRS: 42187, 42188, 42215, 42216	KRS: 42113, 42114, 42290, 42291, 42364, 42365, 42365, 42366, 42367	
Cocaine	T405	T405	T405	KRS: 35320, 35321, 42193, 42194, 42203, 42204	KRS: 35300, 35301, 42103, 42104, 42368, 42369, 42370, 42371	
Fentanyl and Fentanyl Analogs			T404 and text scan; Fentanyl Analogs: Methylfentanyl, Methoxybutyrylfentanyl, Acetylfentanyl, Acrylfentanyl, Hydroxythiofentanyl, Butyrylfentanyl, Carfentanil,		KRS: 42465, 42472, 42474, 42476, 42476, 42478, 42590, 42593, 42593, 42596, 42599	





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			Furanylfentanyl, Para_1, Para_2, U47700			
Marijuana	T407X1, T407X2, T407X3, T407X4, T407X5	T407X1, T407X2, T407X3, T407X4, T407X5	T407	KRS: 42330	KRS: 42301, 42302, 42311, 42312, 42321, 42321, 42322	
General Drug Overdoses	T36-T50, T369, T379, T399, T414, T427, T439, T459, T479, T499	T36-T50, T369, T379, T399, T414, T427, T439, T459, T479, T499	X40-X44, X60-X64, X85, Y10-Y14			
Data Sources	Kentucky Outpatient Services Database Files, Office of Health Data and Analytics, Cabinet for Health and Family Services: Frankfort, Kentucky	Kentucky Inpatient Hospitalization Claims Files, Kentucky Office of Health Data and Analytics, Cabinet for Health and Family Services: Frankfort, Kentucky	Kentucky Death Certificate Database, Office of Vital Statistics, Cabinet for Health and Family Services: Frankfort, Kentucky	Kentucky Open Portal System, Kentucky State Police: Frankfort, Kentucky	Kentucky Open Portal System, Kentucky State Police: Frankfort, Kentucky	Kentucky State Police Crime Laboratory: Frankfort, Kentucky
Notes	The codes listed above are relevant ICD-10-CM codes. Drug overdose- related emergency department visits represent initial encounters of care among Kentucky residents and could be greater than the number of individual patients treated. Data are provisional and subject to change.	The codes listed above are relevant ICD-10-CM codes. Drug overdose- related hospitalizations represent initial encounters of care among Kentucky residents and could be greater than the number of individual patients treated in acute care facilities. Data are provisional and subject to change.	The codes listed above are relevant ICD-10 codes. Deaths are based on drug overdose-related deaths among Kentucky residents. Deaths may involve more than one drug. Data are provisional and subject to change.	Possession citations reflect violations of Kentucky Revised Statutes. The number of citations could be greater than the number of individuals cited; citations are with over 90% of law enforcement agencies reporting. data are provisional and subject to change.	Trafficking citations reflect violations of Kentucky Revised Statutes. The number of citations could be greater than the number of individuals cited; citations are with over 90% of law enforcement agencies reporting. Data are provisional and subject to change.	Lab data represent submissions tested within the corresponding time frame; submission date is not reflected. Testing of submissions is based on those items supporting the highest-tier charge(s). Data are provisional and subject to change.



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STATEWIDE SUBSTANCE USE





Statewide Substance Use-Related Event Change, 2017–2021

	Pu	blic Safety Indic	ators		Public Health Outco	omes
Substance	Trafficking Citations	Possession Citations	Tested Lab Submissions	Overdose Deaths	Emergency Department Visits	Hospitalizations
Heroin-Related	\downarrow	\downarrow	\downarrow	↓ ↓	\downarrow	\downarrow
Opioid-Related	\downarrow	\downarrow	\downarrow	↑	1	\downarrow
Methamphetamine- Related	\downarrow	1	1	1	-	-
Cocaine-Related	\downarrow	\downarrow	\downarrow	1	=	1
Fentanyl/Fentanyl Analog-Related	1	-	1	1	-	-
Marijuana	\downarrow	\downarrow	\downarrow	↑	1	\downarrow

Data are provisional and subject to change. A negative sign (-) indicates that the data source and/or relevant codes were unavailable. Opioid-related events reflect nonheroin opioids. Data sources: Kentucky Open Portal System; Kentucky Death Certificate Database, Office of Vital Statistics, Cabinet for Health and Family Services; Kentucky Outpatient Services Database, Office of Health Data and Analytics, Cabinet for Health and Family Services; Kentucky Open Portal System; Kentucky Outpatient Services; Kentucky Inpatient Hospitalization Claims Files, Kentucky Office of Health Data and Analytics, Cabinet for Health and Family Services; Kentucky Inpatient Hospitalization Claims Files, Kentucky Office of Health Data and Analytics, Cabinet for Health and Family Services; Kentucky State Police Crime Laboratory.

Drug-Related Trafficking Citations among Kentucky Residents,

2017–2021					
Substance	2017	2018	2019	2020	2021
Heroin-Related	1,291	1,322	1,096	845	764
Opioid-Related	333	269	210	147	134
Methamphetamine-Related	3,840	4,552	4,395	3,392	3,196
Cocaine-Related	1,038	988	775	392	376
Fentanyl/Fentanyl Analog-Related	73	136	211	180	134
Marijuana	2,794	3,231	2,634	2,341	2,010

Opioid-related events reflect nonheroin opioids. Data are provisional and subject to change. Trafficking citations reflect violations of Kentucky Revised Statutes. The number of citations could be greater than the number of individuals cited; citations are with over 90% of law enforcement agencies reporting. General drug-related trafficking citations are not available for reporting. Data source: Kentucky Open Portal System, Kentucky State Police.

Drug-Related Possession Citations among Kentucky Residents,

	2017–2021				
Substance	2017	2018	2019	2020	2021
Heroin-Related	3,218	3,045	2,638	2,455	2366
Opioid-Related	759	690	584	473	428
Methamphetamine-Related	10,185	12,591	13,544	10,520	11501
Cocaine-Related	1,828	1,842	1,524	906	871
Fentanyl/Fentanyl Analog-Related	N/A	N/A	N/A	N/A	N/A
Marijuana	20,332	20,673	18,819	15,515	15,121

Opioid-related events reflect nonheroin opioids. Data are provisional and subject to change. Possession citations reflect violations of Kentucky Revised Statutes. The number of citations could be greater than the number of individuals cited; citations are with over 90% of law enforcement agencies reporting. General drug-related possession citations are not available for reporting. Data source: Kentucky Open Portal System, Kentucky State Police.





Drug Overdose-Related Deaths among Kentucky Residents, 2017–2021						
Substance	2017	2018	2019	2020	2021	
General Overdose	1,477	1,250	1,316	1,965	2,256	
Heroin-Related	242	130	143	111	52	
Opioid-Related	1,002	905	967	1,587	1,792	
Methamphetamine-Related	269	305	383	585	865	
Cocaine-Related 169 120 112 166 218						
Fentanyl/Fentanyl Analog-Related	685	660	731	1,343	1,544	
Opioid-related events reflect nonheroin opioids. Data are provisional and subject	ct to change. Deaths were based of	on drug overdose-re	lated deaths among	Kentucky residents.	Data source:	

Upioid-related events reflect nonheroin opioids. Data are provisional and subject to change. Deaths were based on drug overdose-related deaths among Kentucky residents. Data source: Kentucky Death Certificate Database, Office of Vital Statistics, Cabinet for Health and Family Services.

Drug Overdose-R	elated Emergency D	Department V	isits among Ke	entucky Reside	ents,
	2	017–2021			
Substance	2017	2018	2019	2020	2021
General Overdose	14,354	11,932	11,419	12,957	12,991
Heroin-Related	5,313	3,646	3,279	3,759	2,767
Opioid-Related	1,783	1,525	1,655	2,587	3,085
Cocaine-Related	118	118	84	80	80

Opioid-related events reflect nonheroin opioids. Data are provisional and subject to change. Drug overdose-related emergency department visits represent encounters of care among Kentucky residents and could be greater than the number of individual patients treated. Data source: Kentucky Outpatient Services Database, Office of Health Data and Analytics, Cabinet for Health and Family Services.

Drug Overdose-Related	d Inpatient Ho	spitalizations	among Kent	ucky Resident	S,
	20	17–2021			
Substance	2017	2018	2019	2020	2021
General Overdose	6,304	5,500	5,061	5,079	4,853
Heroin-Related	598	363	354	422	389
Opioid-Related	1,193	1,056	903	982	937
Cocaine-Related	203	163	132	124	160

Opioid-related events reflect nonheroin opioids. Data are provisional and subject to change. Drug overdose-related hospitalizations represent encounters of care among Kentucky residents and could be greater than the number of individual patients treated in acute care facilities. Data source: Kentucky Inpatient Hospitalization Claim Files, Kentucky Office of Health Data and Analytics, Cabinet for Health and Family Services.

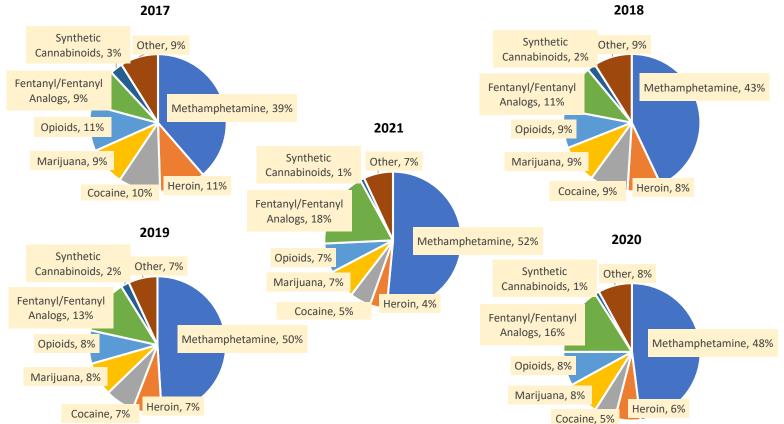




Tested Submissions to Kentucky State Police Crime Laboratories, 2017–2021

Six crime laboratories throughout Kentucky receive drug submissions from local, state, and federal law enforcement agencies' seizures. Data below reflect the most commonly present drugs among tested drug submissions in 2017-2021.

KSP Tested Lab Submissions, 2017–2021



Notes: ^Includes all fentanyl and fentanyl analogs/derivatives. Tested lab submission data represent those substances submitted to the lab for identification purposes; quantity is not reflected. Lab data represent submissions tested within the corresponding timeframe; submission date is not reflected.

Quick Take

- Heroin has decreased by 58% in tested lab submissions from 2017 to 2021.
- Opioids found in tested lab submissions have decreased by about 26% from 2017 to 2021.
- Methamphetamine continues to rise and remains the most commonly found drug in KSP laboratories' submissions, accounting for 52% of total tested lab submissions in 2021. The crime laboratories identified several polysubstance mixtures, such as methamphetamine/gabapentin mixtures and methamphetamine/tramadol mixtures. From 2017 to 2021, the presence of methamphetamine has increased by 53% in total tested lab submissions.
- Cocaine-positive submissions to the laboratories have decreased to slightly over 1,400 submissions in 2021.
 From 2017 to 2021, the presence of cocaine has decreased by 45% in total tested lab submissions.
- Fentanyl- and fentanyl analog-positive tests have steadily increased from 9% in 2017 to 18% in 2021.
- KSP laboratories continue to see many polydrug mixtures including 1) heroin and fentanyl mixtures, 2) cocaine and fentanyl mixtures, and 3) methamphetamine and fentanyl mixtures.
- The Other category contains around 140 individual substances, including gabapentin, diazepam, and alprazolam.



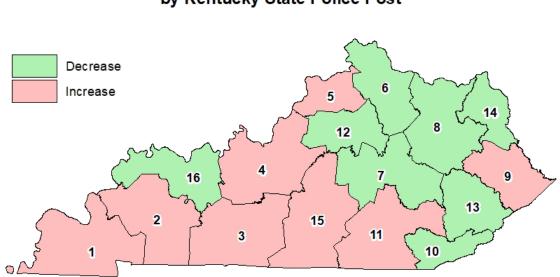
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DRUG-RELATED MAPS



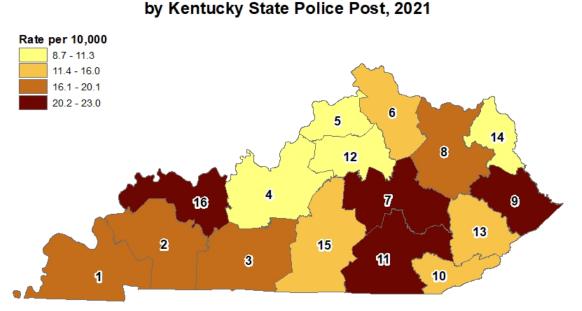




Change in Drug Trafficking Citations from 2020–2021 by Kentucky State Police Post

Data are provisional and subject to change. Produced by the Kentucky Substance Use Research & Enforcement (K-SURE) Collaborative. November 2022. Data source: Kentucky Open Portal System, Kentucky State Police.

Drug Trafficking Citation Rates

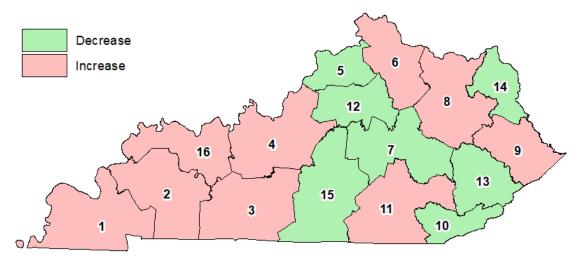


Trafficking citation rates are based off the violation counts for the following Kentucky Revised Statutes (KRS): 35100, 35101, 42105, 42106, 42376, 42377, 42378, 42379, 42466, 42468, 42470, 42480, 42483, 42486, 35200, 35201, 42109, 42110, 42372, 42373, 42374, 42375, 42435, 42436, 42437, 42438, 42137, 42138, 42113, 42114, 42290, 42291, 42364, 42365, 42366, 42367, 35300, 35301, 42103, 42104, 42368, 42369, 42370, 42371, 42465, 42472, 42474, 42476, 42478, 42590, 42593, 42596, and 42599 per 10,000 population. Counts are based on county of occurrence. The number of citations could be greater than the number of individuals cited; citations are with over 90% of law enforcement agencies reporting. Data are provisional and subject to change. Produced by the Kentucky Substance Use Research & Enforcement (K-SURE) Collaborative. November 2022. Data sources: Kentucky Open Portal System, Kentucky State Police; Annual Estimates of the Resident Population for Counties in Kentucky. April 1, 2020 to July 1, 2021, U.S. Census Bureau, Population Division.



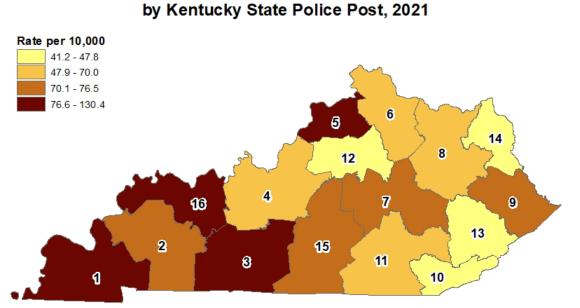






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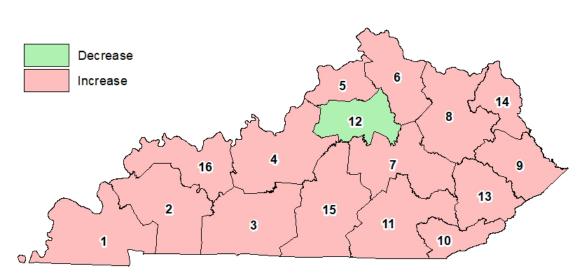
Drug Possession Citation Rates



Possession citations are based on the violation counts for the following Kentucky Revised Statutes (KRS): 35120, 35121, 42195, 42196, 42205, 42206, 35220, 35221, 42197, 42198, 42209, 42210, 42237, 42238, 42246, 42187, 42188, 42215, 42216, 35320, 35321, 42193, 42194, 42203, and 42204 per 10,000 population. Counts are based on county of occurrence. The number of citations could be greater than the number of individuals cited; citations are with over 90% of law enforcement agencies reporting. Data are provisional and subject to change. Produced by the Kentucky Substance Use Research & Enforcement (K-SURE) Collaborative. November 2022. Data sources: Kentucky Open Portal System, Kentucky State Police; Annual Estimates of the Resident Population for Counties in Kentucky: April 1, 2020 to July 1, 2021, U.S. Census Bureau, Population Division.



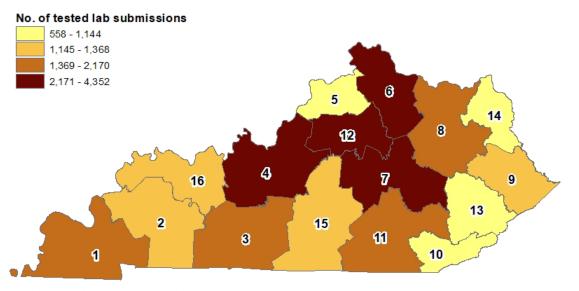




Change in Tested Lab Submissions from 2020–2021 by Kentucky State Police Post

Data are provisional and subject to change. Produced by the Kentucky Substance Use Research & Enforcement (K-SURE) Collaborative. November 2022. Data source: Kentucky State Police Crime Laboratory.

Kentucky State Police Crime Lab Tested Submissions by Kentucky State Police Post, 2021

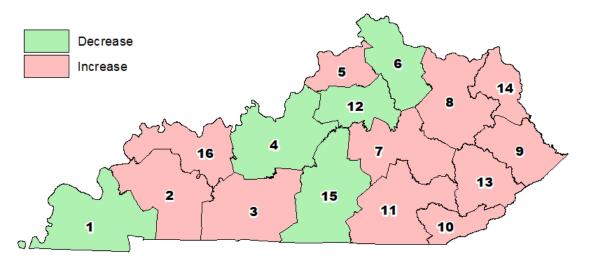


Tested lab submission counts represent those substances submitted to the lab for identification purposes; quantity is not reflected. Lab data represent submissions tested within the corresponding time frame; submission date is not reflected. Counts are based on county of occurrence. Data are provisional and subject to change. Produced by the Kentucky Substance Use Research & Enforcement (K-SURE) Collaborative. November 2022. Data source: Kentucky State Police Crime Laboratory.



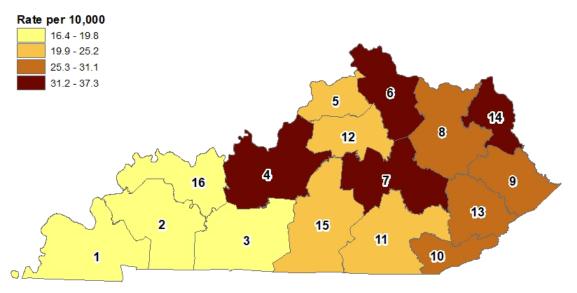


Change in Resident Drug Overdose-Related Emergency Department Visits from 2020–2021 by Kentucky State Police Post



Data are provisional and subject to change. Produced by the Kentucky Substance Use Research & Enforcement (K-SURE) Collaborative. November 2022. Data sources: Kentucky Outpatient Services Database, Office of Health Data and Analytics, Cabinet for Health and Family Services.

Kentucky Resident Drug Overdose-Related Emergency Department Visits Rates by Kentucky State Police Post, 2021

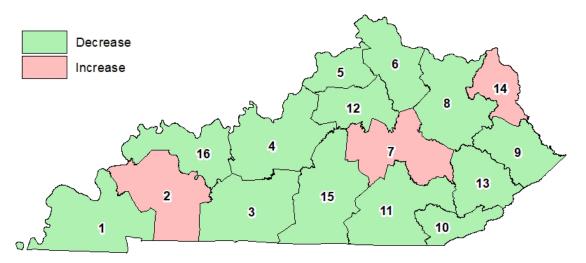


Rates are based on the number of drug overdose-related emergency department (ED) visits per 10,000 population. ED visits represent encounters of care among Kentucky residents and could be greater than the number of individual patient treated. Counts are based on county of residence. Data are provisional and subject to change. Produced by the Kentucky Substance Use Research & Enforcement (K-SURE) Collaborative. November 2022. Data sources: Kentucky Outpatient Services Database, Office of Health Data and Analytics, Cabinet for Health and Family Services; Annual Estimates of the Resident Population for Counties in Kentucky: April 1, 2020 to July 1, 2021, U.S. Census Bureau, Population Division.



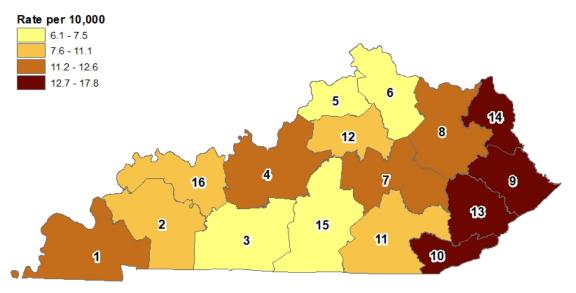


Change in Resident Drug Overdose-Related Inpatient Hospitalizations from 2020–2021 by Kentucky State Police Post



Data are provisional and subject to change. Produced by the Kentucky Substance Use Research & Enforcement (K-SURE) Collaborative. November 2022. Data source: Kentucky Inpatient Hospitalization Claim Files, Kentucky Office of Health Data and Analytics, Cabinet for Health and Family Services.

Kentucky Resident Drug Overdose-Related Inpatient Hospitalization Rates by Kentucky State Police Post, 2021

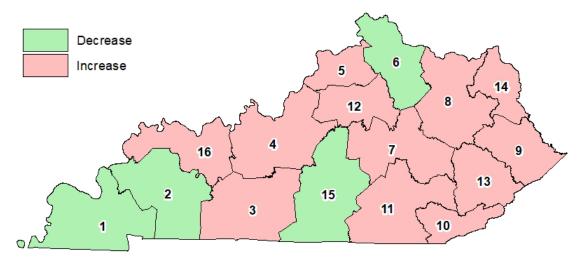


Rates are based on the number of drug overdose-related inpatient hospitalizations at acute care facilities per 10,000 population. Inpatient hospitalizations represent encounters of care among Kentucky residents and could be greater than the number of individual patients treated in acute care facilities. Counts are based on county of residence. Data are provisional and subject to change. Produced by the Kentucky Substance Use Research & Enforcement (K-SURE) Collaborative. November 2022. Data sources: Kentucky Inpatient Hospitalization Claim Files, Kentucky Office of Health Data and Analytics, Cabinet for Health and Family Services; Annual Estimates of the Resident Population for Counties in Kentucky. April 1, 2020 to July 1, 2021, U.S. Census Bureau, Population Division.

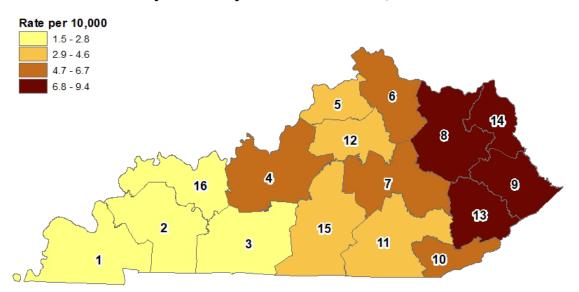




Change in Resident Drug Overdose-Related Deaths from 2020–2021 by Kentucky State Police Post



Data are provisional and subject to change. Produced by the Kentucky Substance Use Research & Enforcement (K-SURE) Collaborative. November 2022.Data source: Kentucky Death Certificate Database, Office of Vital Statistics, Cabinet for Health and Family Services.

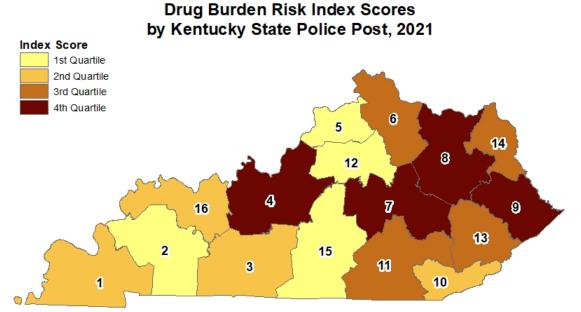


Kentucky Resident Drug Overdose-Related Death Rates by Kentucky State Police Post, 2021

Rates are based on the number of drug overdose-related deaths per 10,000 population. Deaths are based on drug overdoserelated deaths among Kentucky residents. Deaths may involve more than one drug. Counts are based on county of residence. Data are provisional and subject to change. Produced by the Kentucky Substance Use Research & Enforcement (K-SURE) Collaborative.November 2022. Data sources: Kentucky Death Certificate Database, Office of Vital Statistics, Cabinet for Health and Family Services; Annual Estimates of the Resident Population for Counties in Kentucky: April 1, 2020 to July 1, 2021, U.S. Census Bureau, Population Division.

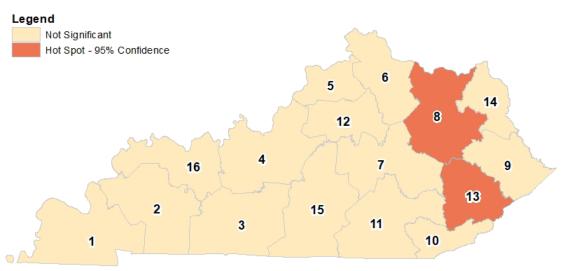






Index Scores are calculated by averaging the 2021 ranks for Kentucky State Police posts in 1) drug trafficking citation rates; 2) drug possession citation rates; 3) tested lab submission counts; 4) drug overdose- (DO-) related death rates; 5) DO-related emergency department visit rates; and 6) DO-related hospitalization rates. Data are provisional and subject to change. Produced by the Kentucky Substance Use Research & Enforcement (K-SURE) Collaborative. November 2022. Data sources: Kentucky Open Portal System, Kentucky State Police; Kentucky State Police Crime Laboratore, November 2022. Data sources: Kentucky of Vital Statistics, Cabinet for Health and Family Services; Kentucky Outpatient Services Database, Office of Health Data and Analytics, Cabinet for Health and Family Services; Kentucky Inpatient Hospitalization Claim Files, Kentucky Office of Health Data and Analytics, Cabinet for Health and Family Services; Kentucky Inpatient Hospitalization Claim Files, Kentucky Office of Health Data Analytics, Cabinet for Health and Family Services; Annual Estimates of the Resident Population for Counties in Kentucky. April 1, 2020 to July 1, 2021, U.S. Census Bureau, Population Division.

Drug Burden Risk Hot Spots by Kentucky State Police Post, 2021



Index Scores are calculated by averaging the 2021 ranks for Kentucky State Police posts in 1) drug trafficking citation rates; 2) drug possession citation rates; 3) tested lab submission counts; 4) drug overdose- (DO-) related death rates; 5) DO-related emergency department visit rates; and 6) DO-related hospitalization rates. Data are provisional and subject to change. Produced by the Kentucky Substance Use Research & Enforcement (K-SURE) Collaborative. November 2022. Data sources: Kentucky Open Portal System, Kentucky State Police; Kentucky State Police Crime Laboratore; November 2022. Data sources: Kentucky of Vital Statistics, Cabinet for Health and Family Services; Kentucky Outpatient Services Database, Office of Health Data and Analytics, Cabinet for Health and Family Services; Kentucky Inpatient Hospitalization Claim Files, Kentucky Office of Health Data and Analytics, Cabinet for Health and Family Services; Annual Estimates of the Resident Population for Counties in Kentucky: April 1, 2020 to July 1, 2021, U.S. Census Bureau, Population Division.



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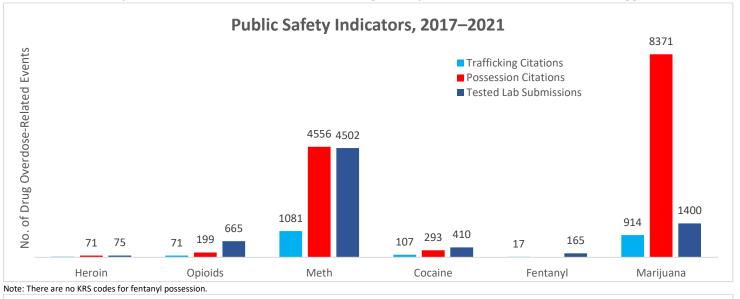


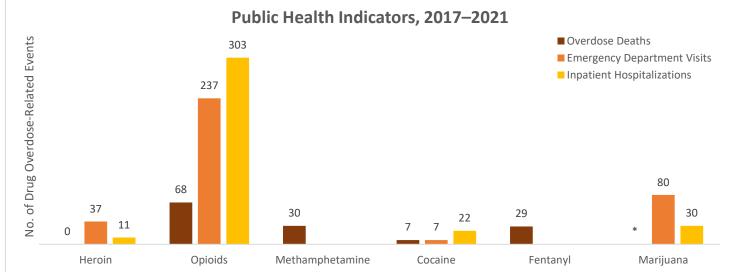
PUBLIC SAFETY AND PUBLIC HEALTH INDICATORS BY KENTUCKY STATE POLICE POST





Ballard, Calloway, Carlisle, Fulton, Graves, Hickman, Livingston, Lyon, Marshall, McCracken, and Trigg Counties





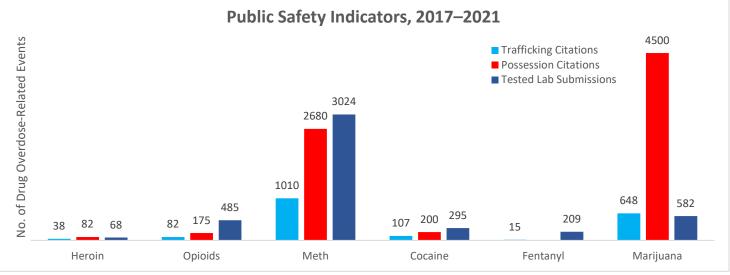
Note: Emergency department and hospitalization data are not available for methamphetamine, fentanyl, and fentanyl-related analogs.

Increasing Events	Decreasing Events	No Change in Events			
Heroin: ED Visits and Hospitalizations	Heroin: Possessions and Labs	Heroin: Trafficking and Deaths			
Cocaine: Trafficking, Deaths, and Hospitalizations	Methamphetamine: Trafficking, Possessions, and Labs	Methamphetamine: Deaths			
Fentanyl and Fentanyl-Related Analogs: Trafficking Labs, and Deaths	Opioids: Trafficking, Labs, Possessions, and Hospitalizations				
Opioids: Deaths and ED Visits	Cocaine: Possessions, Labs, and ED Visits				
Marijuana: Hospitalizations, Possessions, and Labs	Marijuana: Deaths, ED Visits, and Trafficking				

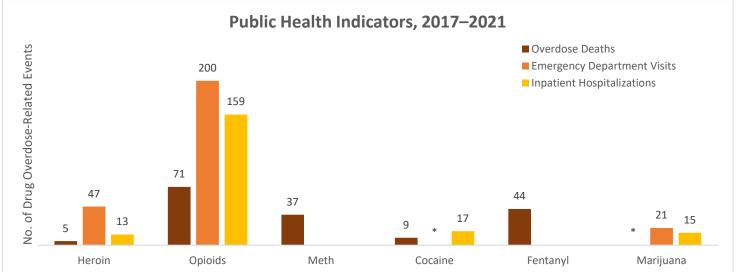




Caldwell, Christian, Crittenden, Hopkins, Muhlenberg, Todd, and Webster Counties



Note: There are no KRS codes for fentanyl possession.



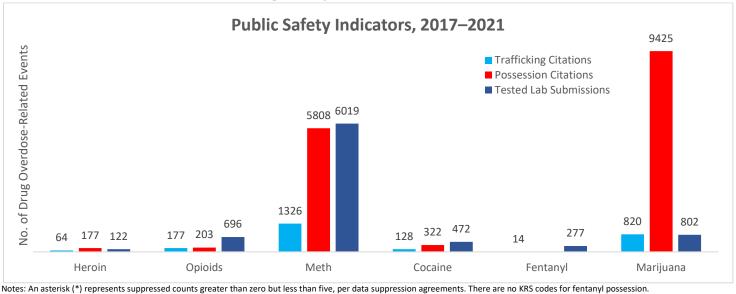
Notes: An asterisk (*) represents suppressed counts greater than zero but less than five, per data suppression agreements. Emergency department and hospitalization data are not available for methamphetamine, fentanyl, and fentanyl-related analogs.

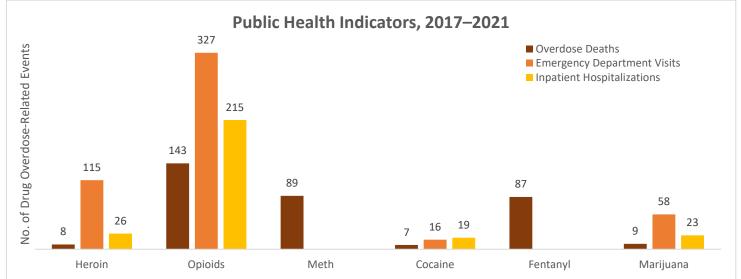
Increasing Events	Decreasing Events	No Change in Events			
Heroin: Possessions and Labs	Heroin: Trafficking and ED Visits	Methamphetamine: Deaths			
Opioids: Deaths and ED Visits	Opioids: Trafficking, Possessions, Hospitalizations, and	Heroin: Deaths and			
Cocaine: Deaths	Labs	Hospitalizations			
Fentanyl and Fentanyl-Related Analogs: Trafficking, Deaths, and Labs	Cocaine: Possessions, ED Visits, Hospitalizations, Trafficking, and Labs				
Marijuana: Trafficking and Labs	Methamphetamine: Trafficking, Possessions, and Labs				
	Marijuana: Possessions, Deaths, ED Visits, and Hospitalizations				





Allen, Barren, Butler, Edmonson, Hart, Logan, Simpson, and Warren Counties





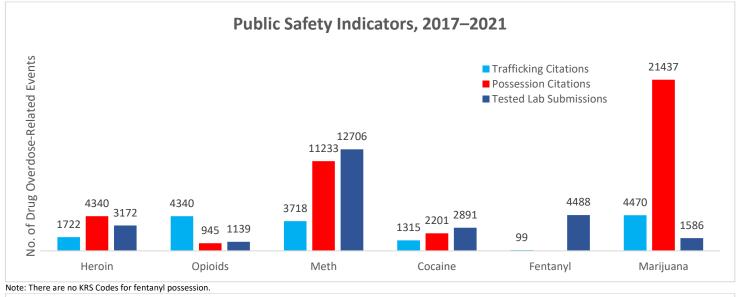
Note: Emergency department and hospitalization data are not available for methamphetamine, fentanyl, and fentanyl-related analogs.

Decreasing Events	No Change in Events			
Heroin: Labs and Hospitalizations	Heroin: Deaths			
Opioids: Possessions and Labs	Marijuana: Trafficking			
Methamphetamine: Trafficking, Possessions, and Labs				
Cocaine: Trafficking, Possessions, Deaths,				
ED Visits, and Labs				
	Decreasing Events Heroin: Labs and Hospitalizations Opioids: Possessions and Labs Methamphetamine: Trafficking, Possessions, and Labs Cocaine: Trafficking, Possessions, Deaths,			

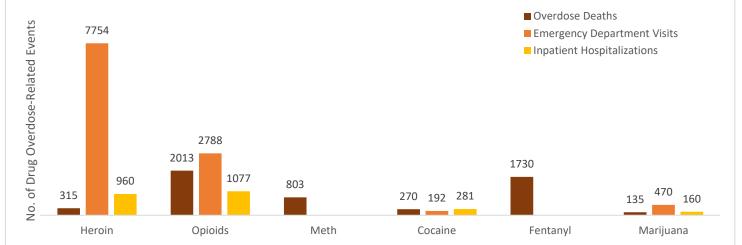




Breckinridge, Bullitt, Grayson, Hardin, Jefferson, Larue, Meade, and Nelson Counties



Public Health Indicators, 2017–2021



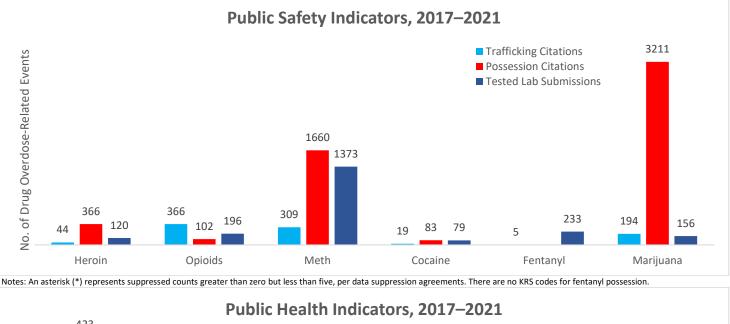
Note: Emergency department and hospitalization data are not available for methamphetamine, fentanyl, and fentanyl-related analogs.

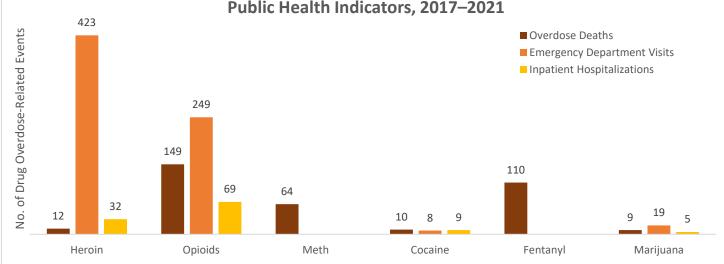
Increasing Events	Decreasing Events	No Change in Events
Opioids: Trafficking, Possessions, Labs, ED Visits, Hospitalizations, and Deaths	Heroin: Trafficking, Possessions, Labs, ED Visits, Hospitalizations, and Deaths	Marijuana: ED Visits
Methamphetamine: Deaths	Methamphetamine: Possessions, Labs, and	
Fentanyl and Fentanyl-Related Analogs:	Trafficking	
Deaths	Cocaine: Trafficking, ED Visits, Possessions,	
Cocaine: Deaths and Hospitalizations	and Labs	
Marijuana: Deaths and Possessions	Fentanyl and Fentanyl-Related Analogs: Trafficking and Labs	
	Marijuana: Hospitalizations, Labs, and Trafficking	





Carroll, Gallatin, Henry, Oldham, Owen, and Trimble Counties





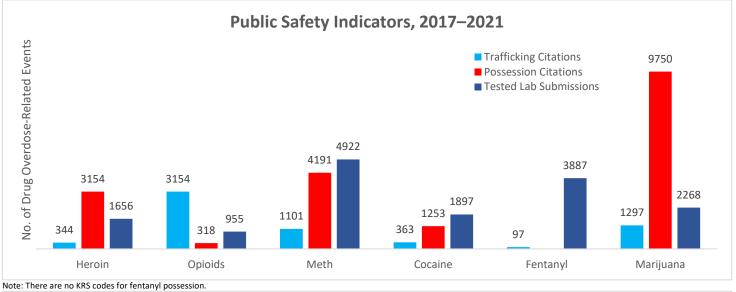
Notes: An asterisk (*) represents suppressed counts greater than zero but less than five, per data suppression agreements. Emergency department and hospitalization data are not available for methamphetamine, fentanyl, and fentanyl-related analogs.

Increasing Events	Decreasing Events	No Change in Events
Heroin: Trafficking, Possessions, and Labs	Heroin: Deaths, ED Visits, and	Opioids: Trafficking
Opioids: Deaths, ED Visits, and Labs	Hospitalizations	Cocaine: Deaths
Methamphetamine: Trafficking, Possessions, and	Opioids: Possessions and Hospitalizations	
Deaths	Methamphetamine: Labs	
Cocaine: ED Visits, Hospitalizations, Possessions,	Cocaine: Trafficking	
and Labs	Fentanyl and Fentanyl-Related Analogs:	
Fentanyl and Fentanyl-Related Analogs: Deaths	Trafficking	
and Labs	Marijuana: Trafficking, Possessions, and	
Marijuana: Deaths, ED Visits, and Hospitalizations	Labs	





Boone, Bourbon, Bracken, Campbell, Grant, Harrison, Kenton, Nicholas, Pendleton, and Robertson Counties



Public Health Indicators, 2017–2021 4274 No. of Drug Overdose-Related Events Overdose Deaths Emergency Department Visits Inpatient Hospitalizations 2524 965 804 669 324 176 140 89 111 47 60 81 79 Opioids Heroin Meth Cocaine Fentanyl Marijuana

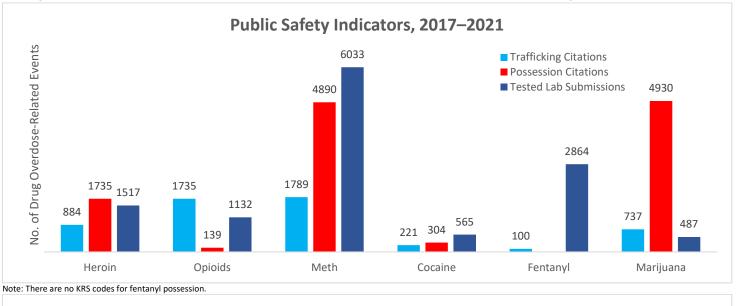
Note: Emergency department and hospitalization data are not available for methamphetamine, fentanyl, and fentanyl-related analogs.

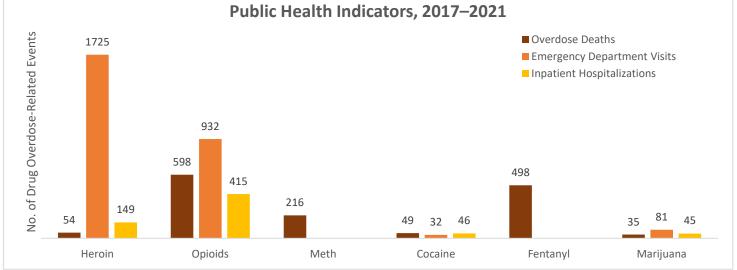
Increasing Events Decreasing Events No Change in Events		
Heroin: Possessions	Heroin: Trafficking, Labs, Deaths, ED Visits, and	Cocaine: ED Visits
Methamphetamine: Labs and Deaths	Hospitalizations	
Opioids: Possessions and Labs	Opioids: Trafficking, Deaths, ED Visits, and	
Cocaine: Trafficking, Possessions, and	Hospitalizations	
Hospitalizations	Methamphetamine: Trafficking and Possessions	
Fentanyl and Fentanyl-Related	Cocaine: Labs, Deaths	
Analogs: Trafficking and Labs	Fentanyl and Fentanyl-Related Analogs: Deaths	
	Marijuana: Deaths, ED Visits, Hospitalizations, Trafficking, Possessions, and Labs	





Boyle, Clark, Estill, Garrard, Jackson, Jessamine, Lee, Lincoln, Madison, Mercer, and Owsley Counties





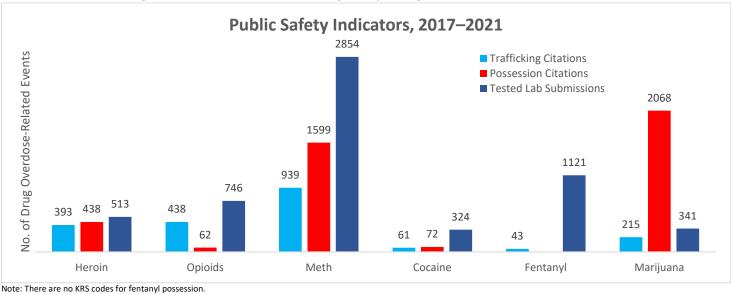
Note: Emergency department and hospitalization data are not available for methamphetamine, fentanyl, and fentanyl-related analogs.

Increasing Events	Decreasing Events	No Change in Events
Heroin: Trafficking, Possessions, and	Heroin: Labs, Deaths, and ED Visits	Cocaine: ED Visits and Hospitalizations
Hospitalizations	Opioids: Trafficking and Possessions	Heroin: Hospitalizations
Opioids: Deaths, ED Visits, Hospitalizations, and Labs	Methamphetamine: Trafficking and Possessions	Fentanyl and Fentanyl-Related Analogs Deaths
Methamphetamine: Deaths and Labs	Cocaine: Trafficking, Possessions, Deaths,	Marijuana: Hospitalizations
Fentanyl and Fentanyl-Related Analogs:	and Labs	
Trafficking, Labs, and Deaths	Marijuana: Trafficking, Possessions, and Labs	
Marijuana: Deaths and ED Visits		





Bath, Elliott, Fleming, Lewis, Mason, Menifee, Montgomery, Morgan, Powell, Rowan, and Wolfe Counties



Public Health Indicators, 2017–2021 630 No. of Drug Overdose-Related Events Overdose Deaths Emergency Department Visits Inpatient Hospitalizations 411 249 218 195 125 93 26 19 23 15 15 11 9 Heroin Opioids Meth Fentanyl Cocaine Marijuana

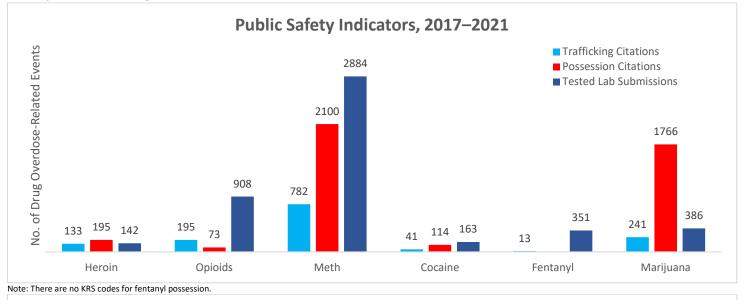
Note: Emergency department and hospitalization data are not available for methamphetamine, fentanyl, and fentanyl-related analogs.

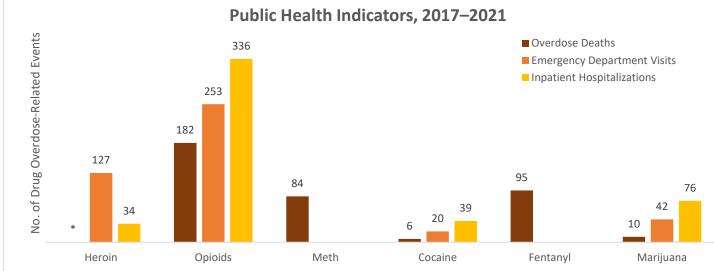
Increasing Events	Decreasing Events	No Change in Events
Heroin: ED Visits and Hospitalizations	Heroin: Trafficking, Possessions, Deaths,	Cocaine: Hospitalizations
Opioids: Deaths and ED Visits	and Labs	Fentanyl and Fentanyl-Related Analogs:
Cocaine: Deaths and ED Visits	Opioids : Trafficking, Possessions, Labs, and Hospitalizations	Labs
Methamphetamine Deaths	Cocaine: Trafficking, Possessions, and Labs	
Fentanyl and Fentanyl-Related Analogs: Trafficking and Deaths	Methamphetamine: Trafficking, Labs, and	
Marijuana: Deaths, ED Visits, Labs, and Possessions	Possessions Marijuana: Hospitalizations and Trafficking	





Floyd, Johnson, Magoffin, Martin, and Pike Counties





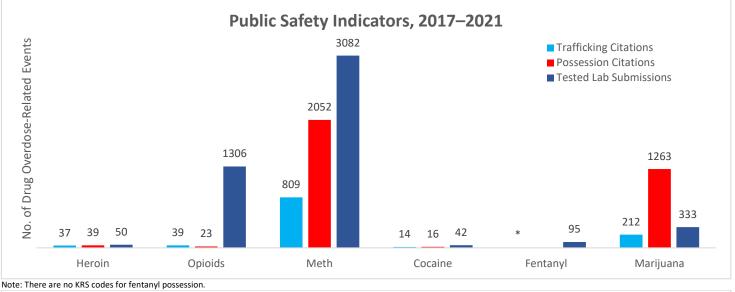
Notes: An asterisk (*) represents suppressed counts greater than zero but less than five, per data suppression agreements. Emergency department and hospitalization data are not available for methamphetamine, fentanyl, and fentanyl-related analogs.

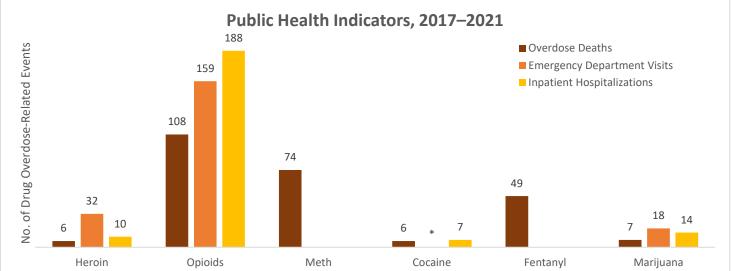
Increasing Events	Decreasing Events	No Change in Events
Heroin: Trafficking, Possessions, Labs, Deaths, ED Visits, and Hospitalizations	Opioids: Trafficking, Possessions, Labs, and ED Visits	Marijuana: Deaths
Opioids: Deaths and Hospitalizations Methamphetamine: Deaths	Methamphetamine: Trafficking, Possessions, and Labs	
Cocaine: ED Visits and Hospitalizations	Cocaine: Trafficking, Possessions, Labs, and Deaths	
Fentanyl and Fentanyl related analogs: Trafficking, Labs, and Deaths	Marijuana: Hospitalizations and Possessions	
Marijuana: ED Visits, Labs and Trafficking		





KSP Post 10 Bell, Harlan, and Knox Counties



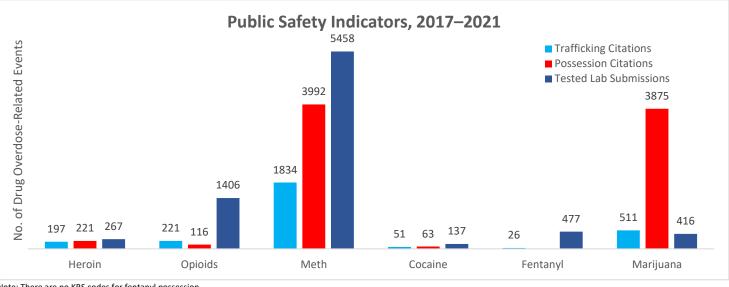


Notes: An asterisk (*) represents suppressed counts greater than zero but less than five, per data suppression agreements. Emergency department and hospitalization data are not available for methamphetamine, fentanyl, and fentanyl-related analogs.

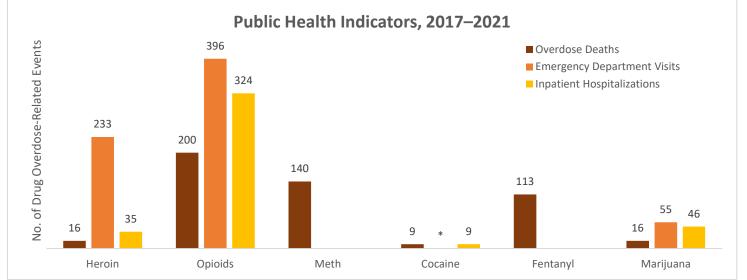
Increasing Events	Decreasing Events	No Change in Events
Heroin: Trafficking, Possessions, Labs, Deaths,	Opioids: Trafficking, ED Visits,	Cocaine: Possessions and Labs
and ED Visits	Hospitalizations, and Labs	Fentanyl and Fentanyl related
Opioids: Possessions and Deaths	Heroin: Hospitalizations	analogs: Trafficking
Methamphetamine: Labs and Deaths	Methamphetamine: Trafficking and	Marijuana: Deaths
Cocaine: Trafficking and ED Visits	Possessions	
Fentanyl and Fentanyl related analogs: Labs	Cocaine: Hospitalizations and Deaths	
and Deaths	Marijuana: Hospitalizations, Trafficking,	
Marijuana: ED Visits and Labs	and Possessions	







Note: There are no KRS codes for fentanyl possession.



Note: Emergency department and hospitalization data are not available for methamphetamine, fentanyl, and fentanyl-related analogs

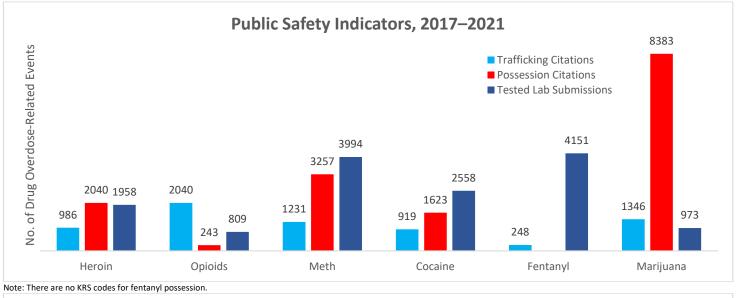
Clay, Laurel, McCreary, Pulaski, Rockcastle, Wayne, and Whitley Counties

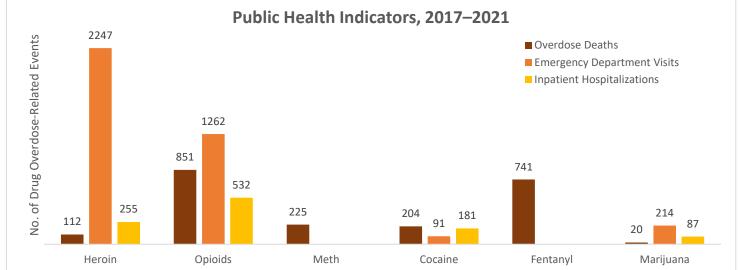
Increasing Events	Decreasing Events	No Change in Events
Heroin: Trafficking, Possessions, Deaths,	Heroin: Hospitalizations	Heroin: Labs
and ED Visits	Opioids: Labs and Hospitalizations	Cocaine: Trafficking and Deaths
Opioids: Trafficking, Possessions, Deaths, and ED Visits	Methamphetamine: Trafficking, Possessions, and Labs	
Cocaine: ED Visits and Hospitalizations	Cocaine: Possessions and Labs	
Methamphetamine: Deaths	Marijuana: Trafficking and Possessions	
Fentanyl and Fentanyl related analogs: Trafficking, Labs, and Deaths		
Marijuana: Labs, Deaths, ED Visits, and Hospitalizations		





Anderson, Fayette, Franklin, Scott, Shelby, Spencer, and Woodford Counties





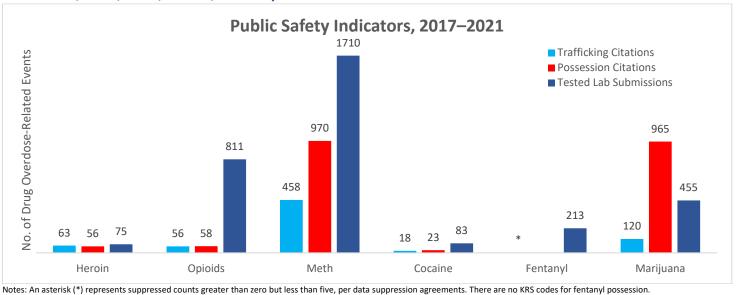
Note: Emergency department and hospitalization data are not available for methamphetamine, fentanyl, and fentanyl-related analogs.

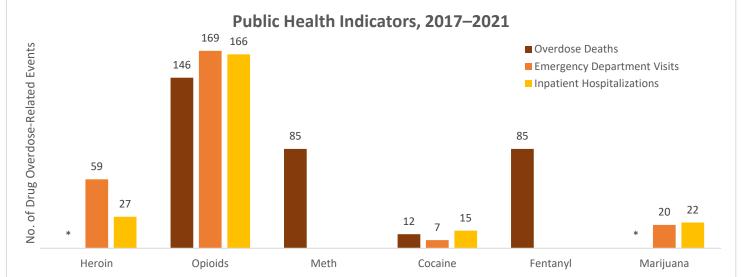
Increasing Events	Decreasing Events	No Change in Events
Opioids : Trafficking, Possessions, Labs, Deaths, and ED Visits	Heroin: Trafficking, Possessions, Labs, ED Visits, and Deaths	Heroin: Hospitalizations
Methamphetamine: Labs and Deaths Cocaine: Deaths and Hospitalizations	Cocaine: Trafficking, Possessions, Labs, and ED Visits	
Fentanyl and Fentanyl-Related Analogs: Deaths	Opioids: Hospitalizations Methamphetamine: Trafficking and Possessions	
Marijuana: Deaths	Fentanyl and Fentanyl-Related Analogs: Trafficking and Labs	
	Marijuana: Trafficking, Possessions, Labs, ED Visits and Hospitalizations	





Breathitt, Knott, Leslie, Letcher, and Perry Counties





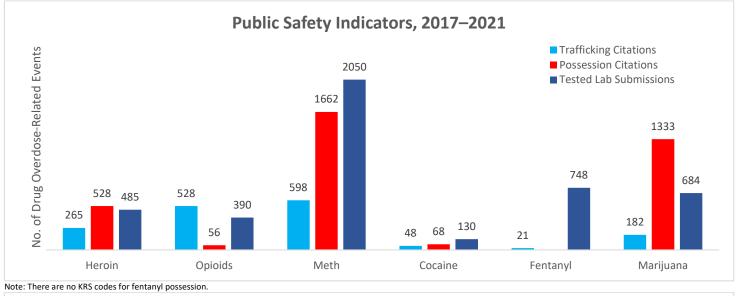
Notes: An asterisk (*) represents suppressed counts greater than zero but less than five, per data suppression agreements. Emergency department and hospitalization data are not available for methamphetamine, fentanyl, and fentanyl-related analogs.

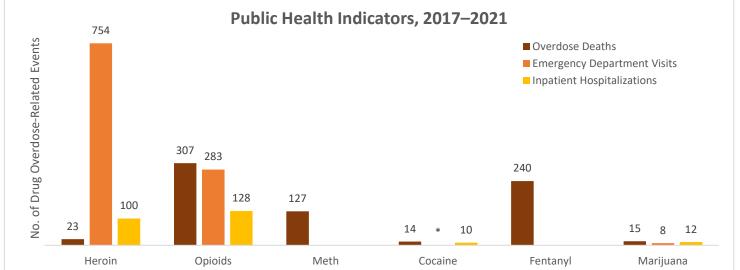
Increasing Events	Decreasing Events	No Change in Events
Heroin: Trafficking, Possessions, and Labs	Heroin: ED Visits and Hospitalizations	Heroin: Deaths
Opioids: Deaths	Opioids: Trafficking, Possessions, Labs, ED	
Methamphetamine: Deaths	Visits, and Hospitalizations	
Cocaine: Deaths, ED Visits, and	Cocaine: Trafficking, Possessions, and Labs	
Hospitalizations	Methamphetamine: Trafficking,	
Fentanyl and Fentanyl-Related Analogs:	Possessions, and Labs	
Trafficking, Labs, and Deaths	Marijuana: Deaths, Labs, and Possessions	
Marijuana: Trafficking, ED Visits, and Hospitalizations		





Boyd, Carter, Greenup, and Lawrence Counties





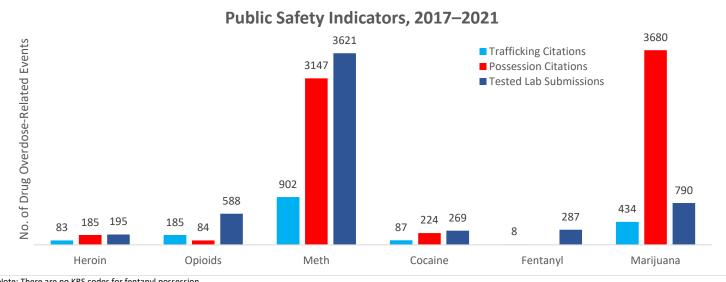
Notes: An asterisk (*) represents suppressed counts greater than zero but less than five, per data suppression agreements. Emergency department and hospitalization data are not available for methamphetamine, fentanyl, and fentanyl-related analogs.

Increasing Events	Decreasing Events	No Change in Events
Heroin: Hospitalizations	Heroin: Trafficking, Possessions, Labs, ED	Opioids: Trafficking
Opioids: Deaths, ED Visits, and Labs	Visits, and Deaths	Marijuana: ED Visits
Methamphetamine: Deaths	Opioids : Possessions and Hospitalizations	
Cocaine: Possessions, Deaths, ED Visits, and Hospitalizations	Methamphetamine: Trafficking, Possessions, and Labs	
Fentanyl and Fentanyl-Related Analogs:	Cocaine: Trafficking and Labs	
Trafficking, Labs, and Deaths	Marijuana: Trafficking , Possessions, and	
Marijuana: Deaths and Hospitalizations	Labs	

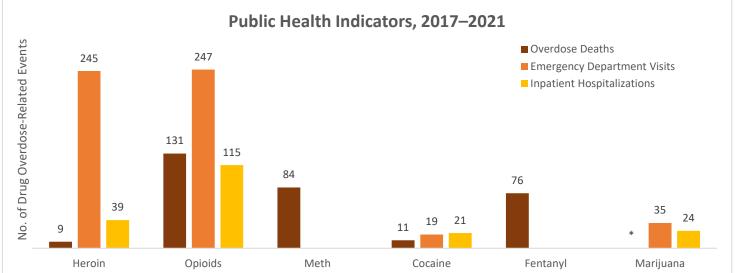




Adair, Casey, Clinton, Cumberland, Green, Marion, Metcalfe, Monroe, Russell, Taylor, and Washington Counties



Note: There are no KRS codes for fentanyl possession.



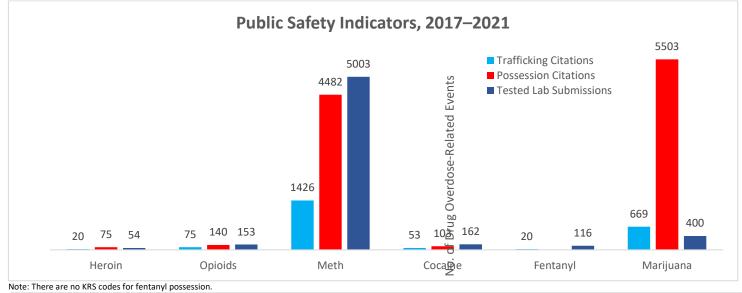
Note: Emergency department and hospitalization data are not available for methamphetamine, fentanyl, and fentanyl-related analogs.

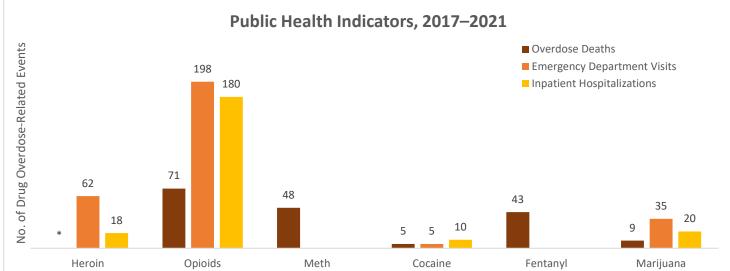
50	bstance ose-rielated Event change, 2020 202	-
Increasing Events	Decreasing Events	No Change in Events
Heroin: Possessions and Labs	Heroin: Trafficking, ED Visits, Deaths, and Hospitalizations,	Marijuana: Trafficking and ED
Opioids: Labs and ED Visits	Opioids: Trafficking, Possessions Deaths, and	Visits
Methamphetamine: Deaths	Hospitalizations	
Cocaine: Hospitalizations	Cocaine: Trafficking, Possessions, Deaths, ED Visits, and Labs	
Fentanyl and Fentanyl-Related Analogs: Labs	Methamphetamine: Trafficking, Labs, and Possessions	
Marijuana: Deaths	Fentanyl and Fentanyl-Related Analogs: Trafficking and Deaths	
	Marijuana: Hospitalizations, Labs, and Possessions	





Daviess, Hancock, Henderson, McLean, Ohio, and Union Counties





Notes: An asterisk (*) represents suppressed counts greater than zero but less than five, per data suppression agreements. Emergency department and hospitalization data are not available for methamphetamine, fentanyl, and fentanyl-related analogs.

Increasing Events	Decreasing Events	No Change in Events
Heroin: Hospitalizations	Heroin: Trafficking, Possessions, ED Visits, and Labs	Cocaine: Deaths and ED Visits
Opioids: Possessions, Hospitalizations, and ED Visits	Opioids: Trafficking, Labs, and Deaths	Heroin: Deaths
	Methamphetamine: Trafficking, Possessions, Deaths,	
Fentanyl and Fentanyl-Related Analogs: Trafficking	and Labs	
	Cocaine: Trafficking, Possessions, Hospitalizations, and	
Marijuana: Trafficking, Possessions, and Labs	Labs	
	Fentanyl and Fentanyl-Related Analogs: Labs and	
	Deaths	
	Marijuana: Deaths, ED Visits, and Hospitalizations	



