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Drug Poisonings and Overdoses in Tennessee

Department of Health

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9-15-2017

## Drug Overdose Deaths 2012-2016

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TENNESSEE DEPARTMENT OF HEALTH

# Drug Overdose Deaths

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2012 -2016

Office of Informatics and Analytics

9/15/2017

## Introduction and purpose

The purpose of this report is to describe drug overdose deaths in Tennessee from 2012 to 2016, with an emphasis on providing useful data to stakeholders of Tennessee Department of Health (TDH) at the regional and county levels. Results presented here derive from vital statistics death certificate data as well as data from Tennessee's prescription drug monitoring program, the Controlled Substance Monitoring Database.

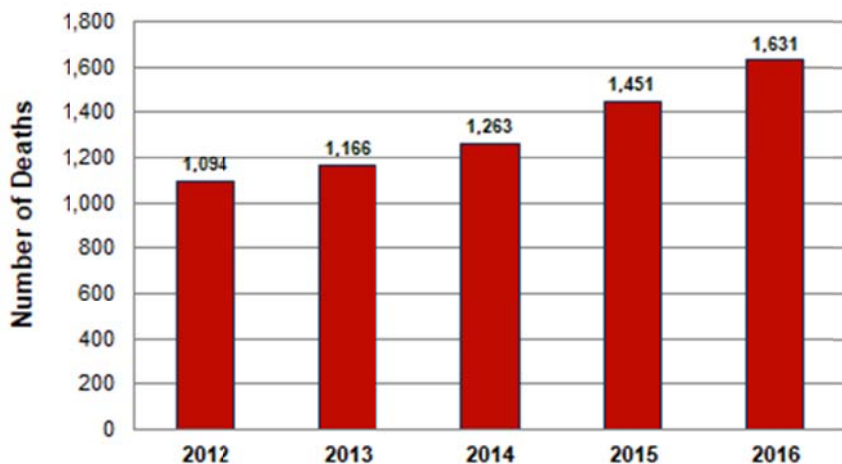
## Definitions

- Drug overdose (fatal and nonfatal)
  - A drug overdose is classified medically as a “drug poisoning.” An overdose may be fatal or nonfatal, and in Tennessee in 2015, approximately 14 nonfatal overdoses occurred for every identified fatal overdose.
- Underlying cause of death
  - To be classified as a fatal overdose, the underlying cause of death on a death certificate must be designated as a drug poisoning. Thus, while drugs play a part in causing some deaths, only those for which the drug poisoning is designated as the underlying cause of death are designated as overdoses by the Centers for Disease Control and Prevention (CDC). TDH provides a file of death certificate data to CDC and they provide the final classifications and coding for the causes of death. For this reason, it is possible that local medical examiners may consider rates of overdose death to be different than the final, official statistical data.
- Contributing cause of death
  - In addition to the underlying cause of death, a death certificate may include multiple contributing causes of death. Once a death is designated as an overdose, the contributing causes provide data on the types of drugs that were present in the body of the decedent, as identified through a toxicology screen. Of note, contributing causes of death are coded using ICD10 codes so drugs for which a code does not exist would not be identified in this way.
- Literal text on death certificates
  - In addition to the coded data available in the underlying and contributing causes of death columns of the data file, there are text fields available that may provide additional information. For example, no ICD10 code currently exists to specifically identify fentanyl; the analytic team uses text mining to identify cases involving fentanyl within the subset of individuals with an underlying cause of death of drug overdose.
- Controlled Substance Monitoring Database
  - The Controlled Substance Monitoring Database of Tennessee includes data on controlled substances that are *dispensed*. For our analyses, we include only those data on individuals who are residents of the state.

## State-level overview 2012 – 2016

Over the past four years, drug overdose deaths in Tennessee have consistently increased. In 2016, 1,631 Tennesseans died of a drug overdose.

### Drug Overdose Deaths in Tennessee, 2012-16

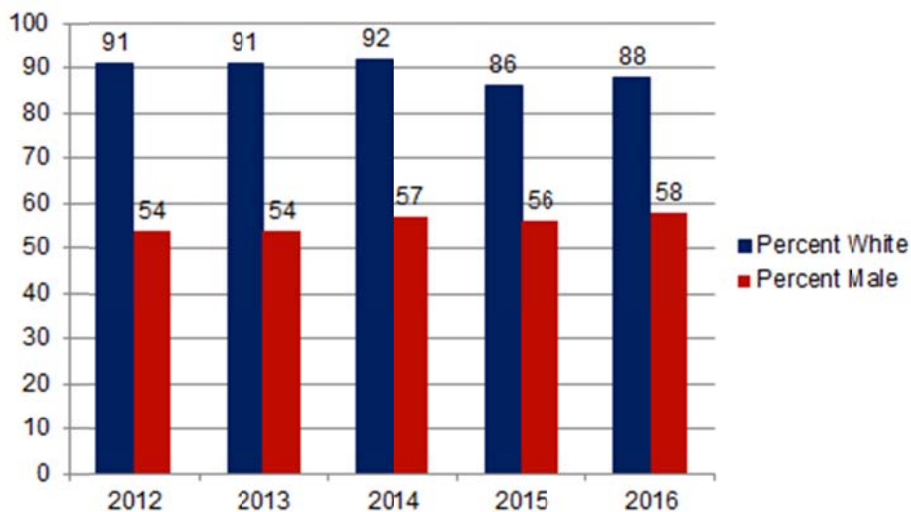


Source: Tennessee Department of Health, Office of Informatics and Analytics



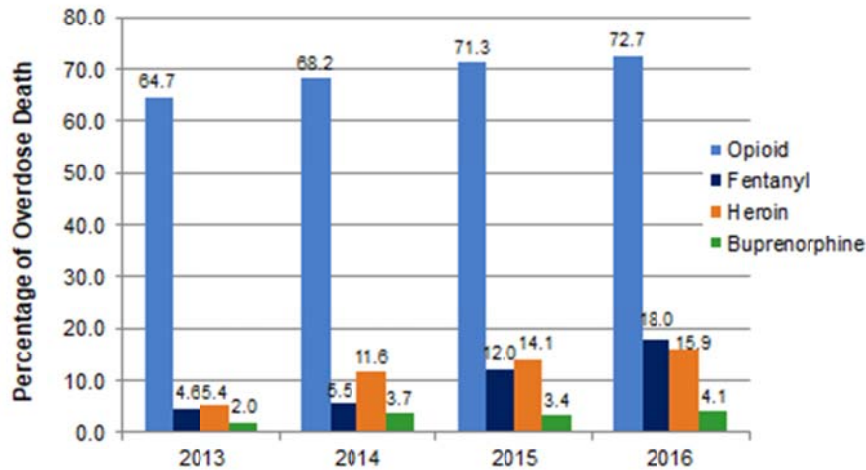
Tennesseans who died of a drug overdose were more likely to be white and to be male.

### All Drug Overdose Deaths by Race and Sex, 2012-2016



Opioids have consistently been common contributing causes among drug overdose deaths in Tennessee. The most substantial increases in recent years, however, have been in fentanyl and heroin presence among deaths. Of note, these are not mutually exclusive drug categories; fentanyl and heroin are included in the category of opioids.

## Opioids Present In Overdose Deaths\*



\* Percentages for fentanyl, heroin, buprenorphine are included in the opioid category and are broken out for clarity.



## Number of people who died of a drug overdose in Tennessee by contributing substance, 2013-16 (n= 5,511)

Overdose Death	2013	2014	2015	2016
All Drug	1,166	1,263	1,451	1,631
Opioid	754	861	1,034	1,186
Prescription Opioids (Natural, semi-synthetic and synthetic)	637	697	848	1,009
Pain Relievers (per CDC Definition, includes methadone)	578	603	689	739
Heroin	63	147	205	260
Fentanyl	53	69	169	294
Methadone	86	71	67	82
Benzodiazepine	371	388	492	573
Opioid and Benzodiazepine	340	352	447	522



The Controlled Substance Monitoring Database provides insight on the degree to which Tennesseans who die of drug overdoses have received prescriptions for controlled substances. For example, in 2016, 67 percent of individuals who died of an opioid overdose had filled any prescription noted in the CSMD in the past year, compared to 48 percent doing so in the past 60 days before death. *Categories of drug deaths are not mutually exclusive.*

**Percent who filled any prescription in the Tennessee CSMD within 365 days of death by type of overdose death among all individuals who died by year (n=5,511 total)<sup>a</sup>**

Overdose Death	2013 (n=1,166)	2014 (n=1,263)	2015 (n=1,451)	2016 (n=1,631)	Percent Difference <sup>b</sup>
All Drug	78	75	72	66	-12
Opioid	81	78	75	67	-14
Prescription Opioids (Natural, semi-synthetic and synthetic)	81	81	77	70	-11
Pain Relievers (per CDC Definition, includes methadone)	82	82	80	73	-9
Heroin	63	59	62	57	-6
Fentanyl	89	75	67	62	-27
Methadone	79	80	70	62	-17
Benzodiazepine	83	83	80	72	-11
Opioid and Benzodiazepine	84	85	81	72	-12

<sup>b</sup>Difference between 2016 and 2013



**Percent who filled any prescription in the Tennessee CSMD within 60 days of death by type of overdose death among all individuals who died by year (n=5,511 total)<sup>a</sup>**

Overdose Death	2013 (n=1,166)	2014 (n=1,263)	2015 (n=1,451)	2016 (n=1,631)	Percent Difference <sup>b</sup>
All Drug	61	58	54	47	-14
Opioid	65	61	58	48	-17
Prescription Opioids (Natural, semi-synthetic and synthetic)	66	65	62	51	-15
Pain Relievers (per CDC Definition, includes methadone)	66	66	65	57	-9
Heroin	38	36	39	34	-4
Fentanyl	77	62	45	36	-41
Methadone	58	61	49	43	-15
Benzodiazepine	69	68	68	55	-14
Opioid and Benzodiazepine	70	70	70	56	-14

<sup>b</sup>Difference between 2016 and 2013



The following table tells us what percent of individuals with each type of drug overdose had specifically obtained prescriptions for opioids and benzodiazepines in the past 60 days before death and the change in these prescriptions over time. For example, in 2016, 40% of individuals with an underlying cause of death of drug overdose and a contributing factor of an opioid had filled an opioid prescription in the 60 days before death.

<b>Percent who filled a prescription for an opioid or benzodiazepine in the Tennessee CSMD within 60 days of death by type of overdose death among all individuals who died by year (n=5,511 total)<sup>a</sup></b>										
<b>Overdose Death</b>	<b>Opioid prescription filled</b>					<b>Benzodiazepine prescription filled</b>				
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>Percent Difference<sup>b</sup></b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>Percent Difference<sup>b</sup></b>
All Drug	52	48	45	37	-15	41	38	34	28	-13
Opioid Prescription	57	52	48	40	-17	43	38	38	28	-15
Opioids	59	57	52	42	-17	44	42	40	31	-13
Pain Relievers	59	58	55	49	-10	43	43	43	38	-7
Heroin	25	28	27	28	1	18	20	20	18	2
Fentanyl	68	51	37	27	-41	53	38	24	17	-38
Methadone	50	49	30	32	-18	33	44	40	29	-4
Benzodiazepine	58	55	57	43	-15	58	52	53	39	-17
Opioid and Benzodiazepine	59	59	59	45	-14	58	52	54	40	-18

<sup>a</sup>Difference between 2013 and 2016



## County Level Data 2012 - 2016

The following pages include count data on overdose deaths for the years 2012 to 2016 by a subset of drug types. *The contributing drugs are not mutually exclusive and the counts will not necessarily sum to total overdose deaths.* Categories of drugs are designated by the CDC for the Prevention for States program as follows:

	<u>Criteria</u>
Primary Inclusion/Exclusion Criteria:	Only Tennessee Residents. Excludes voided death certificates.
All Drug overdose Inclusion Criteria:	Deaths that have been coded with any of the following ICD-10 codes as the underlying cause of death: X40-X44: Accidental poisoning by drugs X60-X64: Intentional self-poisoning by drugs X85: Assault by drug poisoning Y10-Y14: Drug poisoning of undetermined intent
Drug Overdose Deaths Involving Opioids Inclusion Criteria:	Must meet criteria for Indicator 1 AND contain at least one of the following ICD-10 codes as a contributing cause of death:  T40.0: Poisoning by opium T40.1: Poisoning by heroin T40.2: Poisoning by natural and semisynthetic opioids T40.3: Poisoning by methadone T40.4: Poisoning by synthetic opioids other than methadone T40.6: Poisoning by other and unspecified narcotics
Drug Overdose Deaths Involving Prescription Opioids Inclusion Criteria:	Must meet criteria for Indicator 1 AND contain at least one of the following ICD-10 codes as a contributing cause of death:  T40.2: Poisoning by natural and semisynthetic opioids T40.3: Poisoning by methadone T40.4: Poisoning by synthetic opioids other than methadone
Drug Overdose Deaths Involving Methadone Inclusion Criteria:	Must meet criteria for Indicator 1 AND contain the following ICD-10 code as a contributing cause of death:  T40.3: Poisoning by methadone
Drug Overdose Deaths Involving Heroin Inclusion Criteria:	Must meet criteria for Indicator 1 AND contain the following ICD-10 code as a contributing cause of death:  T40.1: Poisoning by heroin



2012 Overdose Death Counts by County					
	All Drug Overdose Deaths	Drug Overdose Deaths Involving Opioids	Drug Overdose Deaths Involving Prescription Opioids	Drug Overdose Deaths Involving Methadone	Drug Overdose Deaths Involving Heroin
Anderson	19	11	10	1	0
Bedford	8	6	5	0	0
Benton	7	7	6	1	0
Bledsoe	1	1	1	0	0
Blount	24	17	14	1	0
Bradley	23	11	11	1	0
Campbell	5	5	5	0	0
Cannon	5	5	5	1	0
Carroll	6	3	3	1	0
Carter	10	5	3	1	0
Cheatham	11	8	8	1	0
Chester	1	0	0	0	0
Claiborne	7	5	5	1	0
Clay	1	0	0	0	0
Cocke	11	4	3	0	0
Coffee	13	9	8	2	0
Crockett	1	0	0	0	0
Cumberland	13	9	6	1	0
Davidson	109	70	61	8	8
Decatur	3	3	3	0	0
DeKalb	5	1	1	0	0
Dickson	4	4	3	2	1
Dyer	7	3	2	1	0
Fayette	3	2	1	0	1
Fentress	4	2	1	1	0
Franklin	6	1	1	0	0
Gibson	7	2	2	0	0
Giles	5	4	3	0	1
Grainger	6	3	2	0	0
Greene	20	7	5	1	0
Grundy	3	3	3	0	0
Hamblen	24	19	17	1	0
Hamilton	66	47	46	8	0

2012 Overdose Death Counts by County					
	All Drug Overdose Deaths	Drug Overdose Deaths Involving Opioids	Drug Overdose Deaths Involving Prescription Opioids	Drug Overdose Deaths Involving Methadone	Drug Overdose Deaths Involving Heroin
Hancock	0	0	0	0	0
Hardeman	4	4	4	0	0
Hardin	7	5	5	0	0
Hawkins	12	8	7	0	0
Haywood	2	0	0	0	0
Henderson	6	4	4	1	0
Henry	6	5	5	1	0
Hickman	3	2	1	0	0
Houston	1	0	0	0	0
Humphreys	6	6	6	2	0
Jackson	4	1	1	0	0
Jefferson	9	4	2	0	0
Johnson	2	0	0	0	0
Knox	89	64	62	9	0
Lake	1	0	0	0	0
Lauderdale	6	3	3	0	0
Lawrence	14	12	12	3	0
Lewis	0	0	0	0	0
Lincoln	7	5	5	2	0
Loudon	12	7	5	3	0
McMinn	9	3	1	0	0
McNairy	1	1	1	0	0
Macon	5	3	3	0	0
Madison	5	1	0	0	0
Marion	5	5	5	1	0
Marshall	9	6	6	1	0
Maury	14	12	11	3	0
Meigs	3	2	2	0	0
Monroe	7	4	0	0	0
Montgomery	23	18	18	2	0
Moore	1	1	1	1	0
Morgan	6	5	2	0	0
Obion	6	5	4	1	1

2012 Overdose Death Counts by County					
	All Drug Overdose Deaths	Drug Overdose Deaths Involving Opioids	Drug Overdose Deaths Involving Prescription Opioids	Drug Overdose Deaths Involving Methadone	Drug Overdose Deaths Involving Heroin
Overton	5	4	4	1	0
Perry	2	1	1	0	0
Pickett	1	1	1	0	0
Polk	2	2	2	1	0
Putnam	8	8	8	1	0
Rhea	8	4	4	1	0
Roane	19	14	2	1	0
Robertson	10	5	3	1	0
Rutherford	30	28	28	10	0
Scott	5	3	3	0	0
Sequatchie	2	1	1	1	0
Sevier	15	5	3	0	0
Shelby	130	79	51	8	30
Smith	6	4	4	0	0
Stewart	3	2	2	0	0
Sullivan	23	4	4	0	0
Sumner	13	7	5	1	1
Tipton	7	2	2	0	0
Trousdale	2	2	2	0	0
Unicoi	1	0	0	0	0
Union	3	2	2	2	0
Van Buren	0	0	0	0	0
Warren	7	6	6	1	0
Washington	20	5	4	2	0
Wayne	4	3	3	1	0
Weakley	6	4	4	0	0
White	6	3	3	0	0
Williamson	16	12	9	4	1
Wilson	17	14	14	1	1
Tennessee	1094	698	595	101	45

2013 Counts of Overdose Deaths by County					
	All Drug Overdose Deaths	Drug Overdose Deaths Involving Opioids	Drug Overdose Deaths Involving Prescription Opioids	Drug Overdose Deaths Involving Methadone	Drug Overdose Deaths Involving Heroin
Anderson	25	23	21	4	0
Bedford	4	3	2	0	1
Benton	11	10	8	1	1
Bledsoe	1	1	1	0	0
Blount	23	15	14	1	0
Bradley	20	12	10	3	0
Campbell	16	12	11	2	0
Cannon	5	3	3	0	0
Carroll	6	2	1	0	1
Carter	7	2	1	0	0
Cheatham	12	10	10	1	0
Chester	0	0	0	0	0
Claiborne	9	8	7	3	0
Clay	2	2	2	0	0
Cocke	9	6	6	0	0
Coffee	8	5	5	1	0
Crockett	3	1	1	0	0
Cumberland	7	4	2	0	0
Davidson	125	98	85	10	12
Decatur	2	1	1	0	0
DeKalb	6	3	3	0	0
Dickson	16	10	9	1	1
Dyer	6	2	1	0	0
Fayette	0	0	0	0	0
Fentress	0	0	0	0	0
Franklin	10	6	6	0	0
Gibson	3	3	3	0	0
Giles	7	5	5	0	0
Grainger	4	1	1	0	0
Greene	14	2	2	0	0
Grundy	5	3	3	0	0
Hamblen	11	6	4	0	0
Hamilton	53	35	35	9	0

2013 Counts of Overdose Deaths by County					
	All Drug Overdose Deaths	Drug Overdose Deaths Involving Opioids	Drug Overdose Deaths Involving Prescription Opioids	Drug Overdose Deaths Involving Methadone	Drug Overdose Deaths Involving Heroin
Hancock	4	0	0	0	0
Hardeman	1	0	0	0	0
Hardin	18	14	11	3	1
Hawkins	17	11	10	0	1
Haywood	0	0	0	0	0
Henderson	5	2	1	0	0
Henry	7	5	5	0	0
Hickman	5	4	4	0	0
Houston	1	0	0	0	0
Humphreys	3	2	2	0	0
Jackson	6	4	4	2	0
Jefferson	10	4	4	0	0
Johnson	3	1	1	0	0
Knox	96	75	69	8	1
Lake	2	0	0	0	0
Lauderdale	5	2	2	0	0
Lawrence	5	4	4	0	0
Lewis	2	1	0	0	0
Lincoln	5	4	3	1	0
Loudon	8	5	5	1	0
McMinn	15	2	1	0	0
McNairy	7	5	5	0	0
Macon	7	2	2	1	0
Madison	8	5	3	1	1
Marion	11	7	4	3	0
Marshall	4	4	3	1	0
Maury	10	9	8	1	0
Meigs	1	0	0	0	0
Monroe	6	1	1	0	0
Montgomery	26	22	21	2	0
Moore	0	0	0	0	0
Morgan	4	2	1	0	0
Obion	8	6	6	0	0
Overton	5	4	4	3	0
Perry	1	1	1	0	0

2013 Counts of Overdose Deaths by County					
	All Drug Overdose Deaths	Drug Overdose Deaths Involving Opioids	Drug Overdose Deaths Involving Prescription Opioids	Drug Overdose Deaths Involving Methadone	Drug Overdose Deaths Involving Heroin
Pickett	2	1	1	0	0
Polk	4	2	2	0	0
Putnam	16	11	10	1	0
Rhea	7	7	7	1	0
Roane	20	14	2	0	0
Robertson	10	3	2	0	0
Rutherford	42	36	34	6	2
Scott	4	3	3	0	0
Sequatchie	3	1	1	1	0
Sevier	19	3	3	0	0
Shelby	136	93	58	10	36
Smith	6	3	3	0	0
Stewart	4	2	2	0	0
Sullivan	36	9	8	0	0
Sumner	23	11	8	0	1
Tipton	10	7	5	1	2
Trousdale	3	3	3	0	0
Unicoi	3	1	1	1	0
Union	4	3	2	0	0
Van Buren	1	1	1	1	0
Warren	6	4	4	0	0
Washington	18	2	1	0	0
Wayne	1	0	0	0	0
Weakley	4	2	2	0	0
White	4	4	4	0	0
Williamson	12	9	8	0	0
Wilson	22	17	14	1	2
Tennessee	1166	754	637	86	63

2014 Counts of Overdose Deaths by County					
	All Drug Overdose Deaths	Drug Overdose Deaths Involving Opioids	Drug Overdose Deaths Involving Prescription Opioids	Drug Overdose Deaths Involving Methadone	Drug Overdose Deaths Involving Heroin
Anderson	18	11	11	1	0
Bedford	8	6	5	0	1
Benton	8	5	4	0	0
Bledsoe	1	0	0	0	0
Blount	21	15	11	0	3
Bradley	24	17	17	2	0
Campbell	19	15	14	2	0
Cannon	4	4	3	1	0
Carroll	2	0	0	0	0
Carter	10	5	4	0	0
Cheatham	17	16	15	2	2
Chester	1	1	1	0	0
Claiborne	11	8	4	0	1
Clay	6	4	4	0	0
Cocke	12	9	9	0	0
Coffee	9	7	6	0	1
Crockett	2	0	0	0	0
Cumberland	16	11	7	0	0
Davidson	129	99	84	6	25
Decatur	2	1	1	0	0
DeKalb	11	8	8	2	1
Dickson	12	9	8	1	1
Dyer	4	0	0	0	0
Fayette	3	3	0	0	2
Fentress	2	2	2	0	0
Franklin	10	6	5	1	0
Gibson	5	3	2	0	1
Giles	5	3	3	0	1
Grainger	4	1	0	0	0
Greene	19	13	12	1	0
Grundy	6	3	3	0	0
Hamblen	23	19	17	0	0
Hamilton	58	36	33	4	1
Hancock	0	0	0	0	0
Hardeman	1	0	0	0	0

2014 Counts of Overdose Deaths by County					
	All Drug Overdose Deaths	Drug Overdose Deaths Involving Opioids	Drug Overdose Deaths Involving Prescription Opioids	Drug Overdose Deaths Involving Methadone	Drug Overdose Deaths Involving Heroin
Hardin	12	6	6	2	1
Hawkins	11	5	5	0	0
Haywood	1	0	0	0	0
Henderson	4	2	2	1	0
Henry	7	4	4	0	0
Hickman	2	0	0	0	0
Houston	1	1	1	0	0
Humphreys	4	4	4	1	0
Jackson	3	2	2	0	0
Jefferson	6	4	4	0	0
Johnson	4	1	1	0	0
Knox	133	94	85	11	7
Lake	0	0	0	0	0
Lauderdale	5	5	3	0	2
Lawrence	6	5	4	2	0
Lewis	1	0	0	0	0
Lincoln	6	4	4	2	0
Loudon	15	11	9	2	1
McMinn	13	7	4	0	0
McNairy	3	1	1	0	0
Macon	1	1	1	0	0
Madison	7	4	1	0	1
Marion	8	7	5	1	1
Marshall	10	9	9	1	0
Maury	20	12	11	1	1
Meigs	2	1	0	0	1
Monroe	7	3	1	0	0
Montgomery	26	23	21	2	1
Moore	1	1	1	0	0
Morgan	2	2	1	0	1
Obion	1	1	1	0	1
Overton	3	3	3	0	0
Perry	1	1	1	0	0
Pickett	1	1	1	0	0
Polk	2	2	2	1	0



2014 Counts of Overdose Deaths by County					
	All Drug Overdose Deaths	Drug Overdose Deaths Involving Opioids	Drug Overdose Deaths Involving Prescription Opioids	Drug Overdose Deaths Involving Methadone	Drug Overdose Deaths Involving Heroin
Putnam	21	15	15	2	0
Rhea	4	1	1	0	0
Roane	22	12	3	1	0
Robertson	11	3	2	0	0
Rutherford	35	24	18	2	5
Scott	7	6	4	0	0
Sequatchie	3	3	3	0	0
Sevier	18	9	6	1	1
Shelby	148	113	60	8	69
Smith	5	4	4	1	0
Stewart	2	2	2	0	0
Sullivan	44	22	21	1	0
Sumner	28	9	5	0	3
Tipton	8	5	3	1	3
Trousdale	0	0	0	0	0
Unicoi	5	4	4	1	0
Union	7	5	5	0	0
Van Buren	0	0	0	0	0
Warren	4	2	2	0	0
Washington	25	15	13	0	1
Wayne	4	4	4	1	0
Weakley	2	2	2	0	0
White	4	4	4	1	0
Williamson	18	14	11	0	5
Wilson	26	16	14	1	2
Tennessee	1263	861	697	71	147

2015 Counts of Overdose Deaths by County					
	All Drug Overdose Deaths	Drug Overdose Deaths Involving Opioids	Drug Overdose Deaths Involving Prescription Opioids	Drug Overdose Deaths Involving Methadone	Drug Overdose Deaths Involving Heroin
Anderson	26	20	19	3	1
Bedford	9	8	5	1	2
Benton	8	4	3	1	0
Bledsoe	2	1	1	0	1
Blount	33	19	17	2	4
Bradley	20	10	10	1	0
Campbell	21	16	15	0	2
Cannon	7	3	1	1	1
Carroll	4	1	0	0	1
Carter	12	10	10	2	1
Cheatham	16	15	14	1	1
Chester	5	3	2	0	0
Claiborne	12	3	3	0	0
Clay	2	2	2	0	0
Cocke	5	5	5	0	0
Coffee	14	8	8	0	1
Crockett	2	1	1	1	0
Cumberland	6	2	2	0	0
Davidson	157	127	89	1	40
Decatur	5	5	5	0	1
DeKalb	3	2	1	0	1
Dickson	18	16	13	1	4
Dyer	5	1	1	1	1
Fayette	5	5	4	1	2
Fentress	3	2	2	0	0
Franklin	13	7	7	0	0
Gibson	10	6	5	0	0
Giles	10	9	9	1	2
Grainger	4	2	1	0	0
Greene	6	5	5	0	0
Grundy	3	1	1	0	0
Hamblen	17	11	10	2	1
Hamilton	59	37	37	8	0
Hancock	3	3	3	0	0
Hardeman	3	1	1	0	0

2015 Counts of Overdose Deaths by County					
	All Drug Overdose Deaths	Drug Overdose Deaths Involving Opioids	Drug Overdose Deaths Involving Prescription Opioids	Drug Overdose Deaths Involving Methadone	Drug Overdose Deaths Involving Heroin
Hardin	9	7	6	1	0
Hawkins	16	14	12	0	2
Haywood	0	0	0	0	0
Henderson	5	4	4	0	1
Henry	4	1	1	0	0
Hickman	7	5	5	0	0
Houston	3	2	2	0	0
Humphreys	4	4	4	1	0
Jackson	3	3	3	0	0
Jefferson	6	2	1	0	1
Johnson	4	3	2	2	1
Knox	153	122	106	15	20
Lake	0	0	0	0	0
Lauderdale	0	0	0	0	0
Lawrence	8	2	2	0	0
Lewis	1	0	0	0	0
Lincoln	3	2	2	2	0
Loudon	10	9	6	0	3
McMinn	10	4	2	0	0
McNairy	11	9	9	1	0
Macon	3	3	3	0	0
Madison	10	5	2	1	2
Marion	8	3	1	1	1
Marshall	7	5	5	0	0
Maury	15	11	11	0	0
Meigs	5	0	0	0	0
Monroe	12	6	4	0	0
Montgomery	36	24	21	1	2
Moore	0	0	0	0	0
Morgan	10	10	5	0	0
Obion	3	2	1	0	1
Overton	5	4	4	1	0
Perry	0	0	0	0	0
Pickett	0	0	0	0	0
Polk	3	3	3	0	0
Putnam	15	12	12	0	0

2015 Counts of Overdose Deaths by County					
	All Drug Overdose Deaths	Drug Overdose Deaths Involving Opioids	Drug Overdose Deaths Involving Prescription Opioids	Drug Overdose Deaths Involving Methadone	Drug Overdose Deaths Involving Heroin
Rhea	6	3	3	1	1
Roane	21	15	13	1	1
Robertson	15	12	11	1	1
Rutherford	56	44	38	1	10
Scott	6	4	4	0	0
Sequatchie	2	2	1	0	0
Sevier	28	18	15	1	2
Shelby	188	135	81	3	68
Smith	8	5	5	1	0
Stewart	1	1	1	0	0
Sullivan	35	23	20	2	2
Sumner	24	18	15	0	4
Tipton	15	12	11	0	3
Trousdale	0	0	0	0	0
Unicoi	4	3	3	0	0
Union	8	3	2	0	0
Van Buren	0	0	0	0	0
Warren	7	5	4	0	1
Washington	30	17	17	0	0
Wayne	3	3	3	2	0
Weakley	6	4	3	0	0
White	8	7	7	0	0
Williamson	25	21	17	0	4
Wilson	37	26	22	0	7
Unknown	1	1	1	0	0
Tennessee	1451	1034	848	67	205

2016 Counts of Overdose Deaths by County					
	All Drug Overdose Deaths	Drug Overdose Involving Opioids	Drug Overdose Deaths Involving Prescription Opioids	Drug Overdose Deaths Involving Methadone	Drug Overdose Deaths Involving Heroin
Anderson	31	24	21	1	5
Bedford	5	1	1	1	0
Benton	3	1	0	0	0
Bledsoe	3	2	2	1	0
Blount	35	21	17	1	3
Bradley	16	7	7	1	0
Campbell	12	4	4	0	1
Cannon	4	3	2	0	1
Carroll	2	1	1	0	0
Carter	19	14	13	3	1
Cheatham	15	13	13	1	2
Chester	2	2	1	0	1
Claiborne	20	2	2	0	0
Clay	6	6	5	1	1
Cocke	5	4	4	0	0
Coffee	17	12	11	2	0
Crockett	0	0	0	0	0
Cumberland	8	6	6	0	0
Davidson	227	178	133	6	70
Decatur	4	3	3	0	0
DeKalb	3	1	1	0	0
Dickson	21	17	13	0	5
Dyer	1	0	0	0	0
Fayette	4	2	1	0	2
Fentress	3	2	2	0	0
Franklin	7	2	1	0	1
Gibson	11	5	4	0	2
Giles	4	4	4	0	0
Grainger	4	3	3	1	0
Greene	16	13	13	0	1
Grundy	3	2	2	0	0
Hamblen	22	19	17	1	3
Hamilton	69	53	44	11	9
Hancock	2	1	1	0	0

2016 Counts of Overdose Deaths by County					
	All Drug Overdose Deaths	Drug Overdose Involving Opioids	Drug Overdose Deaths Involving Prescription Opioids	Drug Overdose Deaths Involving Methadone	Drug Overdose Deaths Involving Heroin
Hardeman	2	1	1	0	0
Hardin	8	7	7	2	0
Hawkins	21	19	19	0	1
Haywood	2	1	1	0	0
Henderson	2	2	2	0	0
Henry	6	4	4	0	0
Hickman	5	4	4	0	1
Houston	2	2	2	0	0
Humphreys	4	2	2	0	0
Jackson	4	4	4	1	0
Jefferson	5	3	3	0	0
Johnson	3	1	1	1	0
Knox	174	147	138	10	17
Lake	0	0	0	0	0
Lauderdale	8	5	3	0	3
Lawrence	6	5	5	0	0
Lewis	0	0	0	0	0
Lincoln	8	5	5	0	0
Loudon	14	12	11	3	3
McMinn	13	5	3	1	1
McNairy	4	3	3	0	0
Macon	7	5	5	0	0
Madison	14	7	5	0	0
Marion	4	3	3	1	0
Marshall	12	10	10	2	1
Maury	20	15	15	1	2
Meigs	8	1	0	0	0
Monroe	21	6	6	0	0
Montgomery	29	15	14	0	0
Moore	0	0	0	0	0
Morgan	6	6	3	1	0
Obion	2	1	1	0	0
Overton	6	6	4	1	1
Perry	0	0	0	0	0

2016 Counts of Overdose Deaths by County					
	All Drug Overdose Deaths	Drug Overdose Involving Opioids	Drug Overdose Deaths Involving Prescription Opioids	Drug Overdose Deaths Involving Methadone	Drug Overdose Deaths Involving Heroin
Pickett	0	0	0	0	0
Polk	5	2	2	0	0
Putnam	13	10	10	0	1
Rhea	5	3	3	2	1
Roane	26	21	15	3	1
Robertson	9	9	9	0	0
Rutherford	56	45	39	1	14
Scott	4	1	1	0	1
Sequatchie	3	3	3	1	0
Sevier	25	17	15	0	3
Shelby	197	150	114	9	72
Smith	11	8	8	0	0
Stewart	2	1	1	0	1
Sullivan	43	36	34	2	3
Sumner	39	21	13	0	7
Tipton	19	16	12	1	4
Trousdale	1	0	0	0	0
Unicoi	6	5	5	1	0
Union	10	6	5	0	1
Van Buren	4	3	2	1	0
Warren	10	5	4	2	0
Washington	37	30	30	1	0
Wayne	3	1	1	0	0
Weakley	8	4	2	0	1
White	11	8	8	2	0
Williamson	26	19	13	1	7
Wilson	34	27	24	0	5
Tennessee	1631	1186	1009	82	260