Drugs Identified in Deceased Persons by Florida Medical Examiners



2016 Annual Report

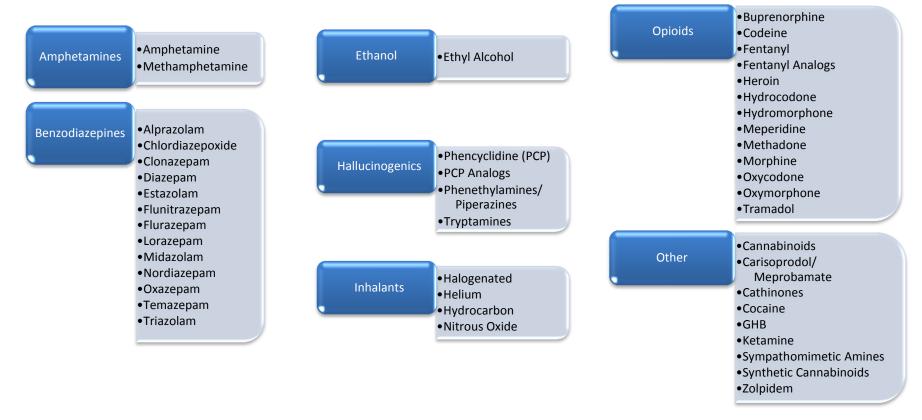
Data Collection

The State of Florida's Bureau of Vital Statistics reported 199,964 deaths in Florida during 2016. Of the 27,383 deaths investigated by Florida's medical examiners, toxicology results determined that the drugs listed below were present at the time of death in 11,910 deaths. The medical examiners assessed whether the drug(s) identified was the cause of death or merely present at the time of death. The data were then submitted to the Medical Examiners Commission (MEC) for presentation in this report. It is important to note that each death is a single case, while each time a drug is detected represents an occurrence. The vast majority of the 11,910 deaths had more than one drug occurrence.

When reporting the data, Florida's medical examiners were asked to distinguish between the drugs determined to be the cause of death and those drugs that were present in the body at the time of death. A drug is indicated as the cause of death only when, after examining all evidence, the autopsy, and toxicology results, the medical examiner determines the drug played a causal role in the death. It is not uncommon for a decedent to have multiple drugs listed as a cause of death. However, a drug may not have played a causal role in the death even when the medical examiner determines the drug is present or identifiable in the decedent. Therefore, a decedent often is found to have multiple drugs listed as present; these are drug occurrences and are not equivalent to deaths.

The MEC would like to acknowledge with much appreciation the crucial role of the members of the Quality Assurance Committee.

Data were collected on the following drugs:



Highlights

All comparisons are made to 2015 calendar year data unless otherwise noted.

- ✓ Total drug-related deaths increased by 22 percent (2,126 more).
- ✓ 5,725 opioid-related deaths were reported, which is a 35 percent increase (1,483 more). The opioids were identified as either the cause of death or merely present in the decedent.
- ✓ 6,658 (24 percent more) individuals died with one or more prescription drugs in their system. The drugs were identified as either the cause of death or merely present in the decedent. These drugs may have also been mixed with illicit drugs and/or alcohol.
- ✓ 3,550 (40 percent more) individuals died with at least one prescription drug in their system that was identified as the cause of death. These drugs may have been mixed with other prescription drugs, illicit drugs, and/or alcohol.
- Prescription drugs (benzodiazepines, carisoprodol/meprobamate, zolpidem, and all opioids excluding heroin and fentanyl analogs) continued to be found more often than illicit drugs, both as the cause of death and present at death. Prescription drugs account for 61 percent of all drug occurrences in this report when ethyl alcohol is excluded. Fentanyl is also produced illicitly, and currently many fentanyl occurrences represent the ingestion of illicit fentanyl rather than pharmaceutically manufactured fentanyl.
- ✓ The five most frequently occurring drugs found in decedents were ethyl alcohol (5,318), benzodiazepines (5,167, including 1,851 alprazolam occurrences), cocaine (2,882), cannabinoids (2,292), and morphine (2,040). The increase in positive cannabinoid findings is due to the increased surveillance by medical examiner offices and not a direct reflection of the increased use of cannabis by decedents. Since heroin is rapidly metabolized to morphine, this may lead to a substantial over-reporting of morphine-related deaths as well as significant under-reporting of heroin-related deaths.
- ✓ The drugs that caused the most deaths were cocaine (1,769), benzodiazepines (1,421, including 813 alprazolam deaths and 183 diazepam deaths), fentanyl (1,390), morphine (1,338), fentanyl analogs (965), heroin (952), ethyl alcohol (948), oxycodone (723), methadone (330), and methamphetamine (327). Fentanyl analogs (94 percent), heroin (93 percent), fentanyl (85 percent), methadone (66 percent), morphine (66 percent), cocaine (61 percent), methamphetamine (53 percent), and oxycodone (52 percent) were listed as causing death in more than 50 percent of the deaths in which these drugs were found.
- ✓ Occurrences of heroin increased by 31 percent and deaths caused by heroin increased by 30 percent.
- ✓ Occurrences of fentanyl increased by 80 percent and deaths caused by fentanyl increased by 97 percent.
- Occurrences of methadone (10 percent) and hydrocodone (2 percent) increased. Deaths caused by methadone (40 more) and hydrocodone (9 more) also increased.
- ✓ Occurrences of morphine increased by 38 percent and deaths caused by morphine increased by 49 percent.

- ✓ Occurrences of oxycodone increased by 28 percent and deaths caused by oxycodone also increased by 28 percent.
- ✓ Occurrences of buprenorphine increased by 90 percent and deaths caused by buprenorphine (14 more) increased.
- ✓ Occurrences of cocaine increased by 57 percent and deaths caused by cocaine increased by 83 percent.
- ✓ Alprazolam (Xanax), diazepam (Valium), and nordiazepam dominate the category of benzodiazepines. Occurrences of alprazolam increased by 29 percent, diazepam increased by 10 percent, and nordiazepam increased by 6 percent. Alprazolam, diazepam, and nordiazepam are rarely the sole cause of death, but are common as contributing to the cause of multi-drug deaths. Note that since the drugs diazepam and chlordiazepoxide (Librium) are normally broken down in the body into the drug nordiazepam, many occurrences of nordiazepam may represent ingestion of these other benzodiazepines.
- ✓ Occurrences of methamphetamine (104 percent) and amphetamine (65 percent) increased. Deaths caused by methamphetamine (171 more) and amphetamine (112 more) also increased.
- ✓ Occurrences of cathinones decreased by 54 percent and deaths caused by cathinones decreased by 42 percent.
- ✓ Reporting of occurrences of U-47700 was not specifically requested by the Commission in 2016. Due to the rapid rise of deaths associated with U-47700, many districts voluntarily reported data; however, the data is not complete. A total of 97 occurrences of U-47700 were reported for 2016. Reporting of U-47700 by all districts will begin with the 2018 Drugs Identified in Deceased Persons Reports.

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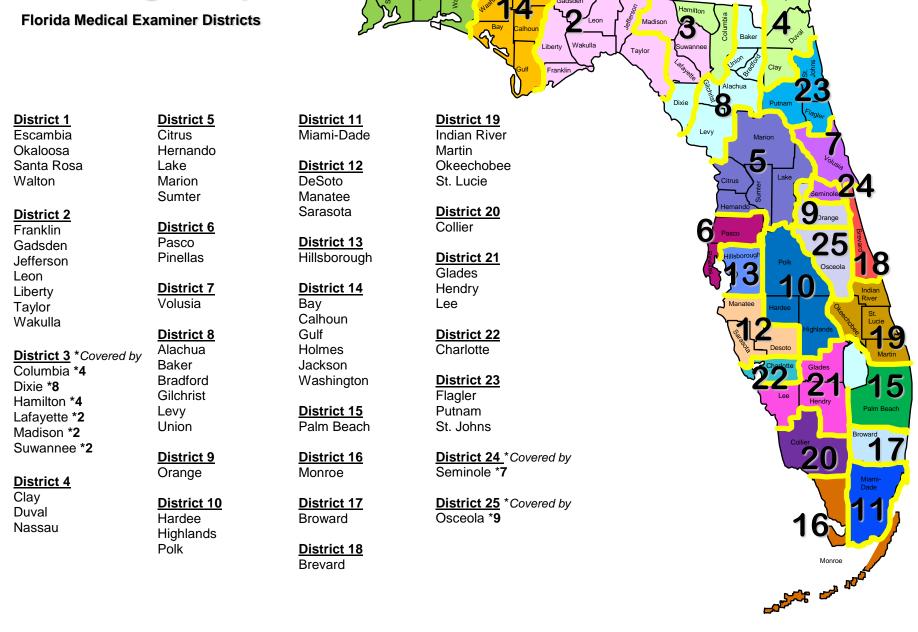
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Coverage Map



$\begin{array}{c} \textbf{Summary of Drug Occurrences in Decedents} \\ 2016 \end{array}$

	Drug Present in Body	Cause	Present	TOTAL OCCURRENCES
Amphetamines	Amphetamine	199	441	640
Amphet	Methamphetamine	327	294	621
	Alprazolam	813	1,038	1,851
	Chlordiazepoxide	13	87	100
	Clonazepam	95	451	546
	Diazepam	183	481	664
səu	Estazolam	2	2	4
epir	Flunitrazepam	0	0	0
diaz	Flurazepam	1	5	6
Benzodiazepines	Lorazepam	32	209	241
Bei	Midazolam	4	160	164
	Nordiazepam	124	585	709
	Oxazepam	51	312	363
	Temazepam	101	410	511
	Triazolam	2	6	8
	Ethanol	948	4,370	5,318
SS	Phencyclidine (PCP)	0	0	0
ogeni	PCP Analogs	2	0	2
Hallucinogenics	Phenethylamines/Piperazines	20	26	46
I	Tryptamines	1	0	1

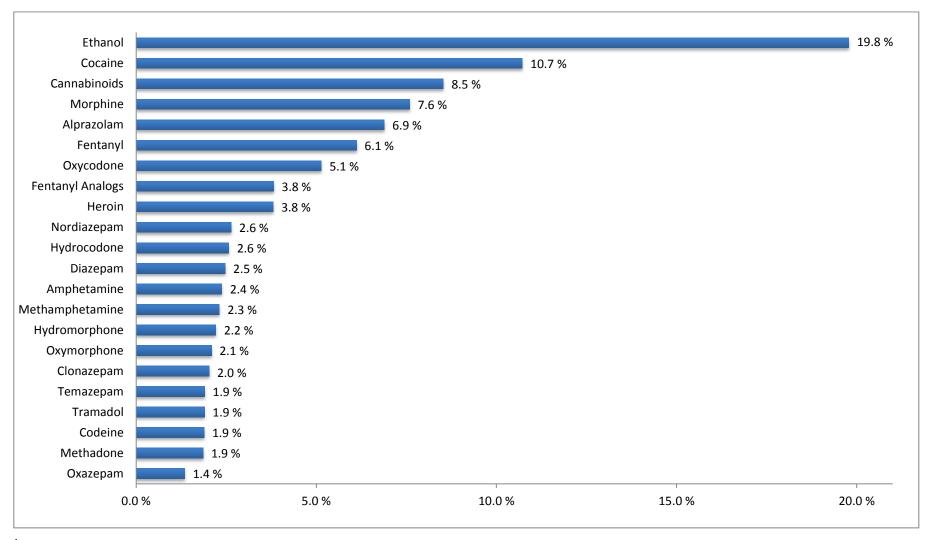
Summary of Drug Occurrences in Decedents (continued)

	Drug Present in Body	Cause	Present	TOTAL OCCURRENCES
S	Halogenated	46	4	50
Inhalants	Helium	13	0	13
hal	Hydrocarbon	1	0	1
<u> </u>	Nitrous Oxide	1	0	1
	Buprenorphine	32	103	135
	Codeine	87	420	507
	Fentanyl	1,390	254	1,644
	Fentanyl Analogs	965	61	1,026
	Heroin	952	71	1,023
gs	Hydrocodone	245	447	692
Opioids	Hydromorphone	196	399	595
Ö	Meperidine	3	3	6
	Methadone	330	169	499
	Morphine	1,338	702	2,040
	Oxycodone	723	659	1,382
	Oxymorphone	153	409	562
	Tramadol	144	366	510
	Cannabinoids	8	2,284	2,292
	Carisoprodol/Meprobamate	27	96	123
	Cathinones	49	53	102
<u>_</u>	Cocaine	1,769	1,113	2,882
Other	GHB	2	2	4
O	Ketamine	7	81	88
	Sympathomimetic Amines	4	21	25
	Synthetic Cannabinoids	17	5	22
	Zolpidem	58	190	248

Note: The total occurrences for buprenorphine and cannabinoids are under reported due to the variability in analytical protocols in place at medical examiner offices. Medical examiners were asked to identify any metabolites of parent drugs. Since heroin is rapidly metabolized to morphine, this may lead to a substantial over-reporting of morphine-related deaths as well as significant under-reporting of heroin-related deaths. Many deaths were found to have several drugs contributing to the death; therefore, the count of specific drugs listed is greater than the number of deaths.

Frequency of Occurrence of Drugs in Decedents¹

January - December 2016



¹The following drugs individually constituted less than one percent of drug frequencies and are not included: chlordiazepoxide, estazolam, flunitrazepam, flurazepam, lorazepam, midazolam, triazolam, all hallucinogenics, all inhalants, buprenorphine, meperidine, carisoprodol/meprobamate, cathinones, GHB, ketamine, sympathomimetic amines, synthetic cannabinoids, and zolpidem.

Note: Percentages may not sum to 100 percent because of rounding.

Comparison of Drug Occurrences in Decedents

2015 to 2016

	Drug Present in Body	2015	2016	PERCENTAGE CHANGE
Amphetamines	Amphetamine	387	640	65.4%
Amphe	Methamphetamine	305	621	103.6%
	Alprazolam	1,439	1,851	28.6%
	Chlordiazepoxide	107	100	-6.5%
	Clonazepam	455	546	20.0%
	Diazepam	604	664	9.9%
nes	Estazolam	2	4	*
epir	Flunitrazepam	1	0	*
Benzodiazepines	Flurazepam	8	6	*
)OZU	Lorazepam	236	241	2.1%
Be	Midazolam	161	164	1.9%
	Nordiazepam	672	709	5.5%
	Oxazepam	405	363	-10.4%
	Temazepam	511	511	0.0%
	Triazolam	3	8	*
	Ethanol	4,762	5,318	11.7%
Si	Phencyclidine (PCP)	2	0	*
ogen	PCP Analogs	N/A	2	N/A
Hallucinogenics	Phenethylamines/Piperazines	22	46	109.1%
Ha	Tryptamines	2	1	*

^{*}Due to the small number of occurrences, percent changes were not calculated.

Note: Many deaths were found to have several drugs contributing to the death; therefore, the count of specific drugs listed is greater than the number of deaths.

N/A – Drug was not tracked during the previous reporting year; therefore, a comparison could not be calculated.

Comparison of Drug Occurrences in Decedents (continued)

	DRUG PRESENT IN BODY	2015	2016	PERCENTAGE CHANGE
Ś	Halogenated	50	50	0.0%
Inhalants	Helium	20	13	*
hal	Hydrocarbon	11	1	*
드	Nitrous Oxide	2	1	*
	Buprenorphine	71	135	90.1%
	Codeine	478	507	6.1%
	Fentanyl	911	1,644	80.4%
	Fentanyl Analogs	N/A	1,026	N/A
	Heroin	779	1,023	31.3%
ds	Hydrocodone	680	692	1.8%
Opioids	Hydromorphone	521	595	14.2%
ŏ	Meperidine	8	6	*
	Methadone	453	499	10.2%
	Morphine	1,483	2,040	37.6%
	Oxycodone	1,081	1,382	27.8%
	Oxymorphone	389	562	44.5%
	Tramadol	439	510	16.2%
	Cannabinoids	1,720	2,292	33.3%
	Carisoprodol/Meprobamate	129	123	-4.7%
	Cathinones	223	102	-54.3%
_	Cocaine	1,834	2,882	57.1%
Other	GHB	5	4	*
0	Ketamine	46	88	91.3% ¹
	Sympathomimetic Amines	21	25	*
	Synthetic Cannabinoids	23	22	*
	Zolpidem	202	248	22.8%

^{*}Due to the small number of occurrences, percent changes were not calculated.

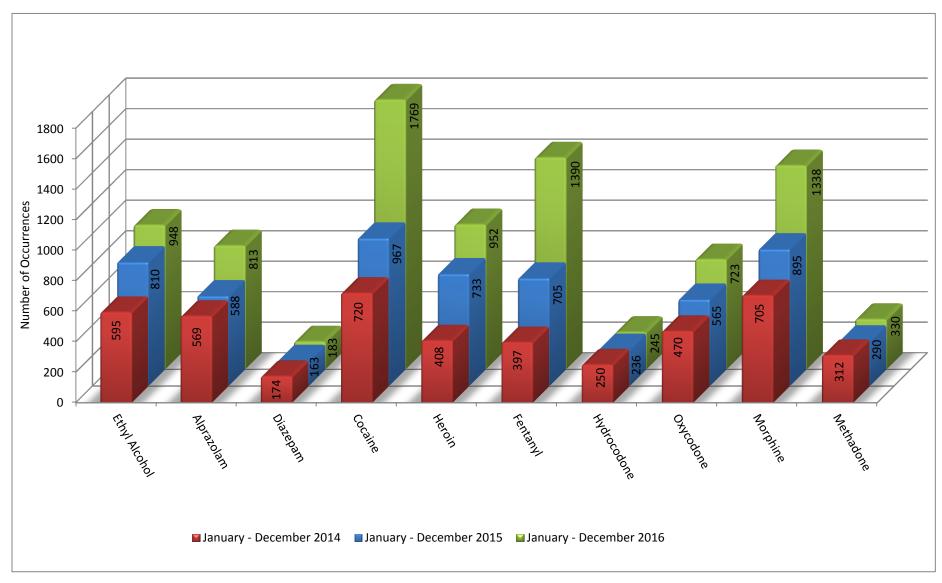
N/A – Drug was not tracked during the previous reporting year; therefore, a comparison could not be calculated.

¹The increase in ketamine occurrences is largely due to the clinical use of ketamine as a sedative and anesthetic in the hospital.

Note: Many deaths were found to have several drugs contributing to the death; therefore, the count of specific drugs listed is greater than the number of deaths.

Comparison of Drug Caused Deaths

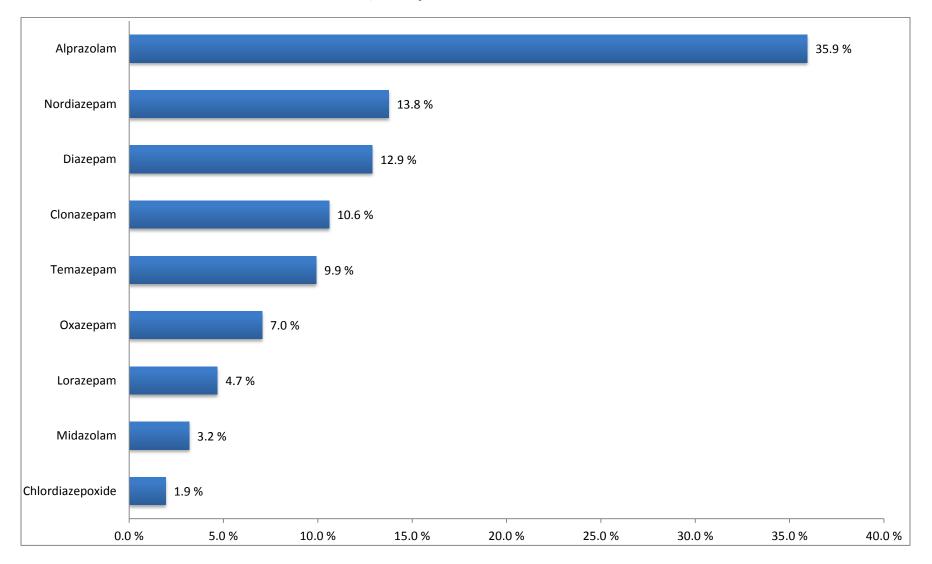
2014 to 2016



Note: Not all drugs are included in the above chart.

Frequency of Occurrence of Benzodiazepines

January - December 2016



Note: Benzodiazepines not included individually constituted less than one percent of occurrences. Percentages may not sum to 100 percent because of rounding. Several benzodiazepines (for example, diazepam) are metabolized to other benzodiazepines in the body (for example, nordiazepam, oxazepam, and temazepam). Thus, occurrences of nordiazepam, oxazepam, and temazepam may be due to the ingestion of diazepam, chlordiazepoxide, and/or temazepam.

Alprazolam Deaths

Medical Examiner District					
and A	and Area of Florida				
District	Area of Florida				
1	Pensacola				
2	Tallahassee				
3	Live Oak				
4	Jacksonville				
5	Leesburg				
6	St. Petersburg				
7	Daytona Beach				
8	Gainesville				
9	Orlando				
10	Lakeland				
11	Miami				
12	Sarasota				
13	Tampa				
14	Panama City				
15	West Palm Beach				
16	Florida Keys				
17	Ft. Lauderdale				
18	Melbourne				
19	Ft. Pierce				
20	Naples				
21	Ft. Myers				
22	Port Charlotte				
23	St. Augustine				
24	Sanford				
25	Kissimmee				
Statewide Totals					

Total Deaths with Alprazolam				
Total	Cause	Present		
58	29	29		
9	8	1		
9	5	4		
150	72	78		
59	19	40		
176	106	70		
51	11	40		
22	10	12		
95	28	67		
76	34	42		
241	69	172		
111	65	46		
101	54	47		
51	23	28		
165	85	80		
10	6	4		
169	110	59		
66	23	43		
54	6	48		
33	9	24		
41	16	25		
24	3	21		
21	9	12		
32	6	26		
27	7	20		
1,851	813	1,038		

Deaths with Alprazolam Only					
Total	Cause	Present			
3	1	2			
1	1	0			
0	0	0			
11	6	5			
6	1	5			
10	2	8			
1	0	1			
3	1	2			
9	0	9			
8	0	8			
15	0	15			
10	2	8			
11	0	11			
3	0	3			
3	1	2			
0	0	0			
10	1	9			
7	0	7			
4	1	3			
2	0	2			
3	0	3			
4	0	4			
3	0	3			
2	1	1			
7	0	7			
136	18	118			

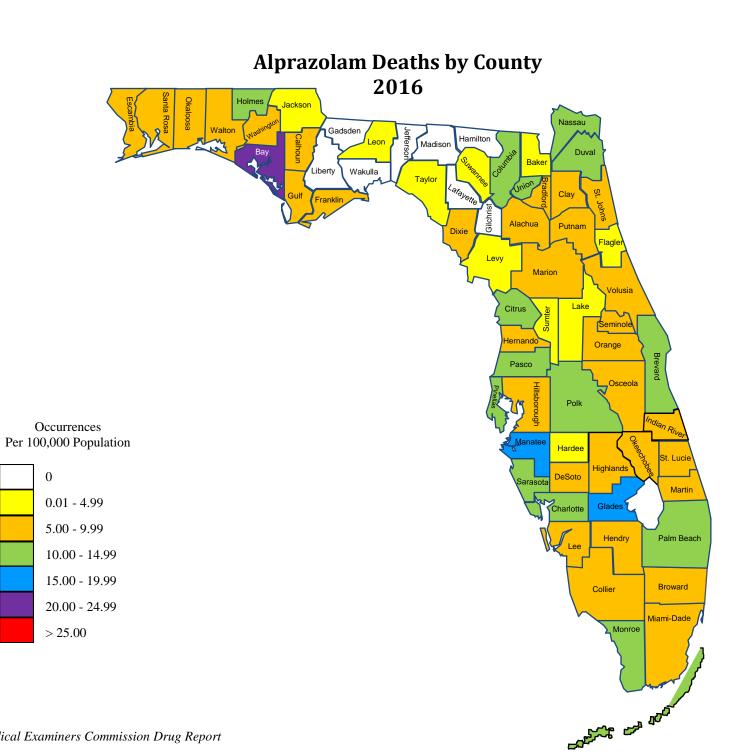
	with Alpraz				
Combinat	tion with Ot	her Drugs			
Total	Cause	Present			
55	28	27			
8	7	1			
9	5	4			
139	66	73			
53	18	35			
166	104	62			
50	11	39			
19	9	10			
86	28	58			
68	34	34			
226	69	157			
101	63	38			
90	54	36			
48	23	25			
162	84	78			
10	6	4			
159	109	50			
59	23	36			
50	5	45			
31	9	22			
38	16	22			
20	3	17			
18	9	9			
30	5	25			
20	7	13			
1,715	795	920			

Alprazolam Deaths by Age January – December 2016

Medical Examiner District and Area of Florida				
District	Area of Florida	Total		
1	Pensacola	58		
2	Tallahassee	9		
3	Live Oak	9		
4	Jacksonville	150		
5	Leesburg	59		
6	St. Petersburg	176		
7	Daytona Beach	51		
8	Gainesville	22		
9	Orlando	95		
10	Lakeland	76		
11	Miami	241		
12	Sarasota	111		
13	Tampa	101		
14	Panama City	51		
15	West Palm Beach	165		
16	Florida Keys	10		
17	Ft. Lauderdale	169		
18	Melbourne	66		
19	Ft. Pierce	54		
20	Naples	33		
21	Ft. Myers	41		
22	Port Charlotte	24		
23	St. Augustine	21		
24	Sanford	32		
25	Kissimmee	27		
Statewide Totals 1,851				

	Alprazolam Caused Death					
		Age of D	ecedent			
Total	<18	18-25	26-34	35-50	>50	
29	0	5	6	10	8	
8	2	2	1	3	0	
5	0	0	1	2	2	
72	1	7	15	27	22	
19	0	3	6	7	3	
106	1	10	20	45	30	
11	0	1	2	4	4	
10	0	1	4	2	3	
28	1	8	5	10	4	
34	1	0	8	13	12	
69	1	15	20	22	11	
65	0	7	17	22	19	
54	2	4	14	16	18	
23	0	1	2	15	5	
85	1	13	22	27	22	
6	0	0	2	4	0	
110	2	10	30	45	23	
23	0	3	5	10	5	
6	0	0	1	2	3	
9	0	0	1	7	1	
16	0	4	6	2	4	
3	0	0	0	1	2	
9	0	2	1	2	4	
6	0	0	1	4	1	
7	0	2	3	1	1	
813	12	98	193	303	207	

	Alpra	zolam Pre	esent at D	eath	
		Age of D	ecedent		
Total	<18	18-25	26-34	35-50	>50
29	0	4	7	12	6
1	0	0	1	0	0
4	0	1	0	1	2
78	1	14	20	27	16
40	1	2	6	13	18
70	0	7	12	32	19
40	0	6	5	18	11
12	1	3	3	1	4
67	2	16	15	16	18
42	0	6	3	12	21
172	1	26	37	42	66
46	3	5	13	10	15
47	0	7	5	11	24
28	0	6	4	9	9
80	0	16	15	21	28
4	1	0	0	3	0
59	0	9	8	17	25
43	0	1	9	14	19
48	0	4	12	11	21
24	0	2	4	6	12
25	0	5	3	9	8
21	0	1	2	8	10
12	0	1	2	4	5
26	1	6	5	7	7
20	0	3	2	6	9
1,038	11	151	193	310	373



0

Diazepam Deaths

Medical Examiner District and Area of Florida		
District	Area of Florida	
1	Pensacola	
2	Tallahassee	
3	Live Oak	
4	Jacksonville	
5	Leesburg	
6	St. Petersburg	
7	Daytona Beach	
8	Gainesville	
9	Orlando	
10	Lakeland	
11	Miami	
12	Sarasota	
13	Tampa	
14	Panama City	
15	West Palm Beach	
16	Florida Keys	
17	Ft. Lauderdale	
18	Melbourne	
19	Ft. Pierce	
20	Naples	
21	Ft. Myers	
22	Port Charlotte	
23	St. Augustine	
24	Sanford	
25 Kissimmee		
Statewide Totals		

Total Deaths with Diazepam			
Total	Cause	Present	
19	11	8	
6	2	4	
8	1	7	
56	19	37	
58	1	57	
69	34	35	
18	3	15	
10	2	8	
27	2	25	
14	4	10	
53	5	48	
26	17	9	
36	14	22	
17	7	10	
68	21	47	
7	3	4	
37	13	24	
31	12	19	
38	0	38	
11	1	10	
20	8	12	
4	0	4	
10	2	8	
7	0	7	
14	1	13	
664	183	481	

Deaths with Diazepam Only			
Total	Cause	Present	
0	0	0	
0	0	0	
0	0	0	
0	0	0	
1	0	1	
2	0	2	
0	0	0	
0	0	0	
0	0	0	
0	0	0	
1	0	1	
0	0	0	
1	0	1	
0	0	0	
1	1	0	
0	0	0	
3	0	3	
1	0	1	
0	0	0	
0	0	0	
0	0	0	
0	0	0	
0	0	0	
1	0	1	
1	0	1	
12	1	11	

Deaths with Diazepam in			
Combination with Other Drugs			
Total	Cause	Present	
19	11	8	
6	2	4	
8	1	7	
56	19	37	
57	1	56	
67	34	33	
18	3	15	
10	2	8	
27	2	25	
14	4	10	
52	5	47	
26	17	9	
35	14	21	
17	7	10	
67	20	47	
7	3	4	
34	13	21	
30	12	18	
38	0	38	
11	1	10	
20	8	12	
4	0	4	
10	2	8	
6	0	6	
13	1	12	
652	182	470	

Diazepam Deaths by Age

Medical Examiner District and Area of Florida			
District	Area of Florida	Total	
1	Pensacola	19	
2	Tallahassee	6	
3	Live Oak	8	
4	Jacksonville	56	
5	Leesburg	58	
6	St. Petersburg	69	
7	Daytona Beach	18	
8	Gainesville	10	
9	Orlando	27	
10	Lakeland	14	
11	Miami	53	
12	Sarasota	26	
13	Tampa	36	
14	Panama City	17	
15	West Palm Beach	68	
16	Florida Keys	7	
17	Ft. Lauderdale	37	
18	Melbourne	31	
19	Ft. Pierce	38	
20	Naples	11	
21	Ft. Myers	20	
22	Port Charlotte	4	
23	St. Augustine	10	
24	Sanford	7	
25	Kissimmee	14	
Statewide Totals 664			

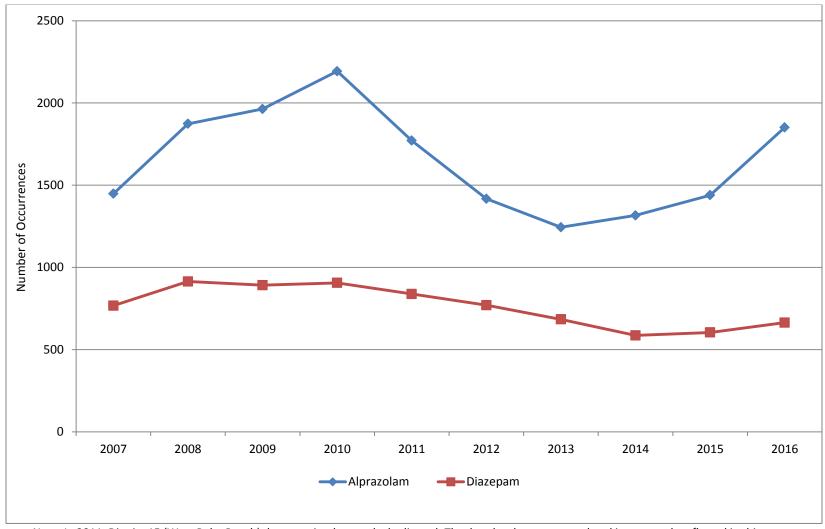
	Diaz	zepam Ca	used Dea	ath	
		Age of D	ecedent		
Total	< 18	18-25	26-34	35-50	>50
11	0	1	2	5	3
2	0	0	0	1	1
1	0	0	0	0	1
19	0	1	5	11	2
1	0	0	0	1	0
34	0	0	4	9	21
3	0	0	0	1	2
2	0	0	1	0	1
2	0	0	0	1	1
4	0	0	1	0	3
5	0	1	0	3	1
17	0	1	5	5	6
14	0	0	1	3	10
7	0	0	1	4	2
21	0	0	4	6	11
3	0	0	0	1	2
13	0	0	4	7	2
12	0	1	2	3	6
0	0	0	0	0	0
1	0	0	0	0	1
8	0	0	2	3	3
0	0	0	0	0	0
2	0	0	0	1	1
0	0	0	0	0	0
1	0	1	0	0	0
183	0	6	32	65	80

	Diazepam Present at Death				
		Age of D	ecedent		
Total	<18	18-25	26-34	35-50	>50
8	0	1	0	2	5
4	0	0	0	1	3
7	0	0	0	3	4
37	0	2	4	14	17
57	0	2	7	16	32
35	0	1	5	12	17
15	0	0	2	7	6
8	0	0	1	3	4
25	0	2	1	9	13
10	0	1	0	2	7
48	0	4	5	14	25
9	0	1	2	4	2
22	0	1	1	4	16
10	0	0	1	6	3
47	0	6	5	11	25
4	0	0	0	2	2
24	0	0	3	10	11
19	0	0	2	2	15
38	1	2	3	7	25
10	0	0	0	1	9
12	0	1	0	4	7
4	0	0	3	1	0
8	1	0	1	2	4
7	1	2	1	1	2
13	0	2	2	3	6
481	3	28	49	141	260

Diazepam Deaths by County 2016 Gadsden Madison Duval Taylor Levy Marion Volusia Lake Orange Pasco Occurrences Per 100,000 Population Hardee Highlands DeSoto 0 Martin 0.01 - 4.99 Glades 5.00 - 9.99 Hendry Palm Beach 10.00 - 14.99 15.00 - 19.99 Broward Collier 20.00 - 24.99 > 25.00

Historical Overview of Alprazolam and Diazepam Occurrences

(Present and Cause) 2007 to 2016



Note: In 2011, District 15 (West Palm Beach) data was inadvertently duplicated. The data has been corrected and is accurately reflected in this report.

Oxycodone Deaths

Medical Examiner District and Area of Florida		
District	Area of Florida	
1	Pensacola	
2	Tallahassee	
3	Live Oak	
4	Jacksonville	
5	Leesburg	
6	St. Petersburg	
7	Daytona Beach	
8	Gainesville	
9	Orlando	
10	Lakeland	
11	Miami	
12	Sarasota	
13	Tampa	
14	Panama City	
15	West Palm Beach	
16	Florida Keys	
17	Ft. Lauderdale	
18	Melbourne	
19	Ft. Pierce	
20	Naples	
21	Ft. Myers	
22	Port Charlotte	
23	St. Augustine	
24	Sanford	
25	Kissimmee	
Statewide Totals		

Total Deaths with Oxycodone			
Total	Cause	Present	
30	16	14	
23	13	10	
9	3	6	
118	66	52	
74	39	35	
142	91	51	
43	12	31	
28	15	13	
63	26	37	
43	23	20	
103	54	49	
70	41	29	
90	39	51	
25	13	12	
120	71	49	
6	3	3	
109	73	36	
81	38	43	
61	22	39	
37	17	20	
38	18	20	
23	6	17	
17	12	5	
14	6	8	
15	6	9	
1,382	723	659	

Deaths with Oxycodone Only			
Total	Cause	Present	
1	1	0	
6	1	5	
0	0	0	
0	0	0	
7	3	4	
11	9	2	
2	0	2	
5	2	3	
7	1	6	
1	0	1	
2	0	2	
5	0	5	
10	1	9	
1	0	1	
11	5	6	
0	0	0	
10	2	8	
7	0	7	
3	1	2	
0	0	0	
2	0	2	
1	0	1	
3	1	2	
1	0	1	
3	0	3	
99	27	72	

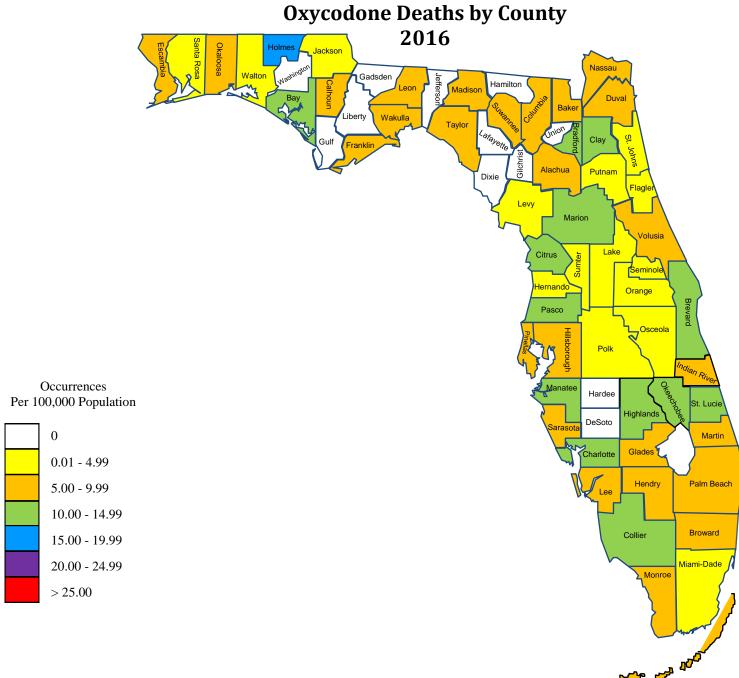
Deaths with Oxycodone in			
Combination with Other Drugs			
Total	Cause	Present	
29	15	14	
17	12	5	
9	3	6	
118	66	52	
67	36	31	
131	82	49	
41	12	29	
23	13	10	
56	25	31	
42	23	19	
101	54	47	
65	41	24	
80	38	42	
24	13	11	
109	66	43	
6	3	3	
99	71	28	
74	38	36	
58	21	37	
37	17	20	
36	18	18	
22	6	16	
14	11	3	
13	6	7	
12	6	6	
1,283	696	587	

Oxycodone Deaths by Age January - December 2016

Medical Examiner District and Area of Florida			
District	Area of Florida	Total	
1	Pensacola	30	
2	Tallahassee	23	
3	Live Oak	9	
4	Jacksonville	118	
5	Leesburg	74	
6	St. Petersburg	142	
7	Daytona Beach	43	
8	Gainesville	28	
9	Orlando	63	
10	Lakeland	43	
11	Miami	103	
12	Sarasota	70	
13	Tampa	90	
14	Panama City	25	
15	West Palm Beach	120	
16	Florida Keys	6	
17	Ft. Lauderdale	109	
18	Melbourne	81	
19	Ft. Pierce	61	
20	Naples	37	
21	Ft. Myers	38	
22	Port Charlotte	23	
23	St. Augustine	17	
24	Sanford	14	
25	Kissimmee	15	
Statewide Totals 1,382			

	Охус	codone C	aused De	ath		
	Age of Decedent					
Total	< 18	18-25	26-34	35-50	>50	
16	0	2	4	3	7	
13	0	2	1	4	6	
3	0	0	1	1	1	
66	3	2	13	26	22	
39	0	0	2	14	23	
91	1	5	9	33	43	
12	0	0	4	4	4	
15	0	0	2	5	8	
26	0	2	4	9	11	
23	0	0	1	10	12	
54	0	8	11	22	13	
41	0	2	7	17	15	
39	1	0	7	14	17	
13	0	0	1	9	3	
71	0	2	12	26	31	
3	0	0	1	2	0	
73	0	5	13	31	24	
38	0	3	5	12	18	
22	0	1	1	4	16	
17	0	2	6	5	4	
18	0	0	6	7	5	
6	0	0	1	1	4	
12	0	1	2	4	5	
6	0	1	2	2	1	
6	0	0	0	3	3	
723	5	38	116	268	296	

Oxycodone Present at Death						
	Age of Decedent					
Total	<18	18-25	26-34	35-50	>50	
14	0	1	2	8	3	
10	0	0	0	3	7	
6	0	1	1	2	2	
52	0	1	10	21	20	
35	0	0	7	10	18	
51	0	2	8	11	30	
31	0	1	3	12	15	
13	0	0	2	4	7	
37	0	5	5	9	18	
20	0	1	2	6	11	
49	0	2	4	13	30	
29	0	0	4	4	21	
51	0	3	5	12	31	
12	0	0	0	5	7	
49	0	1	11	14	23	
3	1	0	0	2	0	
36	0	1	7	10	18	
43	0	3	4	11	25	
39	0	1	5	12	21	
20	0	3	2	3	12	
20	0	2	0	8	10	
17	0	1	2	5	9	
5	0	0	1	2	2	
8	0	0	2	1	5	
9	0	1	2	3	3	
659	1	30	89	191	348	



Hydrocodone Deaths

Medical Examiner District				
and Area of Florida				
District	Area of Florida			
1	Pensacola			
2	Tallahassee			
3	Live Oak			
4	Jacksonville			
5	Leesburg			
6	St. Petersburg			
7	Daytona Beach			
8	Gainesville			
9	Orlando			
10	Lakeland			
11	Miami			
12	Sarasota			
13	Tampa			
14	Panama City			
15	West Palm Beach			
16	Florida Keys			
17	Ft. Lauderdale			
18	Melbourne			
19	Ft. Pierce			
20	Naples			
21	Ft. Myers			
22	Port Charlotte			
23	St. Augustine			
24	Sanford			
25	Kissimmee			
Statewide Totals				

Total Deaths with Hydrocodone			
Total	Cause	Present	
31	5	26	
15	5	10	
10	1	9	
90	33	57	
39	23	16	
56	21	35	
38	14	24	
14	3	11	
34	10	24	
35	7	28	
34	9	25	
30	14	16	
43	15	28	
22	9	13	
28	17	11	
2	0	2	
21	13	8	
36	12	24	
30	7	23	
13	3	10	
23	10	13	
11	2	9	
19	5	14	
11	5	6	
7	2	5	
692	245	447	

Deaths with Hydrocodone Only				
Total	Cause	Present		
1	0	1		
3	1	2		
3	0	3		
5	0	5		
6	2	4		
10	2	8		
6	1	5		
5	1	4		
4	0	4		
5	1	4		
2	0	2		
1	1	0		
10	1	9		
3	0	3		
3	1	2		
2	0	2		
4	1	3		
7	0	7		
4	1	3		
3	0	3		
2	0	2		
0	0	0		
4	0	4		
2	1	1		
1	1	0		
96	15	81		

Deaths with Hydrocodone in					
Combination with Other Drugs					
Total	Cause	Present			
30	5	25			
12	4	8			
7	1	6			
85	33	52			
33	21	12			
46	19	27			
32	13	19			
9	2	7			
30	10	20			
30	6	24			
32	9	23			
29	13	16			
33	14	19			
19	9	10			
25	16	9			
0	0	0			
17	12	5			
29	12	17			
26	6	20			
10	3	7			
21	10	11			
11	2	9			
15	5	10			
9	4	5			
6	1	5			
596	230	366			

Hydrocodone Deaths by Age January – December 2016

Medical Examiner District and Area of Florida			
District	Area of Florida	Total	
1	Pensacola	31	
2	Tallahassee	15	
3	Live Oak	10	
4	Jacksonville	90	
5	Leesburg	39	
6	St. Petersburg	56	
7	Daytona Beach	38	
8	Gainesville	14	
9	Orlando	34	
10	Lakeland	35	
11	Miami	34	
12	Sarasota	30	
13	Tampa	43	
14	Panama City	22	
15	West Palm Beach	28	
16	Florida Keys	2	
17	Ft. Lauderdale	21	
18	Melbourne	36	
19	Ft. Pierce	30	
20	Naples	13	
21	Ft. Myers	23	
22	Port Charlotte	11	
23	St. Augustine	19	
24	Sanford	11	
25	Kissimmee	7	
Statewide Totals 692			

	Hydrocodone Caused Death				
		Age of D	ecedent		
Total	< 18	18-25	26-34	35-50	>50
5	0	1	1	2	1
5	0	0	1	2	2
1	0	0	0	1	0
33	0	3	6	11	13
23	0	0	0	6	17
21	0	0	3	10	8
14	0	1	2	5	6
3	0	0	0	0	3
10	0	0	2	6	2
7	0	0	0	2	5
9	0	1	2	2	4
14	0	0	0	3	11
15	0	1	5	1	8
9	0	0	0	6	3
17	0	0	5	4	8
0	0	0	0	0	0
13	0	0	1	4	8
12	0	2	1	2	7
7	0	1	1	0	5
3	0	0	1	2	0
10	0	0	3	3	4
2	0	0	1	0	1
5	0	0	0	2	3
5	0	0	0	2	3
2	0	0	0	0	2
245	0	10	35	76	124

Hydrocodone Present at Death						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
26	0	3	5	9	9	
10	0	3	0	1	6	
9	0	0	0	3	6	
57	0	7	4	20	26	
16	0	2	1	4	9	
35	0	1	2	6	26	
24	0	1	2	9	12	
11	0	1	0	2	8	
24	0	3	4	5	12	
28	0	3	5	7	13	
25	0	2	2	5	16	
16	0	2	2	6	6	
28	0	1	3	3	21	
13	0	1	1	4	7	
11	0	1	0	4	6	
2	0	0	0	0	2	
8	0	1	0	2	5	
24	0	0	4	4	16	
23	0	1	1	5	16	
10	0	0	1	2	7	
13	0	1	0	4	8	
9	0	0	1	5	3	
14	1	2	2	1	8	
6	0	0	0	4	2	
5	0	1	0	1	3	
447	1	37	40	116	253	

Hydrocodone Deaths by County 2016 Madison Taylor Gilchri Alachua Dixie Levy Marion Volusia Hernando Orange Pasco Osceola Occurrences Per 100,000 Population DeSoto Martin Glades 0.01 - 4.99 Hendry Palm Beach 5.00 - 9.99 10.00 - 14.99 Broward Collier 15.00 - 19.99 20.00 - 24.99 Miami-Dade Monroe

0

> 25.00

Methadone Deaths

Medical Examiner District and Area of Florida			
	District Area of Florida		
1	Pensacola		
2	Tallahassee		
3	Live Oak		
4	Jacksonville		
5	Leesburg		
6	St. Petersburg		
7	Daytona Beach		
8	Gainesville		
9	Orlando		
10	Lakeland		
11	Miami		
12	Sarasota		
13	Tampa		
14	Panama City		
15	West Palm Beach		
16	Florida Keys		
17	Ft. Lauderdale		
18	Melbourne		
19	Ft. Pierce		
20	Naples		
21	Ft. Myers		
22	Port Charlotte		
23	St. Augustine		
24	Sanford		
25	Kissimmee		
Statewide Totals			

Total Deaths with Methadone			
Total	Cause	Present	
20	9	11	
7	4	3	
5	2	3	
35	26	9	
60	40	20	
75	52	23	
15	11	4	
12	7	5	
21	14	7	
18	14	4	
18	14	4	
34	22	12	
40	27	13	
7	6	1	
23	13	10	
1	1	0	
14	10	4	
30	21	9	
15	3	12	
16	11	5	
10	8	2	
4	1	3	
9	7	2	
4	4	0	
6	3	3	
499	330	169	

Deaths with Methadone Only				
Total	Cause	Present		
3	1	2		
1	1	0		
1	0	1		
0	0	0		
10	7	3		
6	2	4		
0	0	0		
3	2	1		
2	2	0		
0	0	0		
0	0	0		
2	1	1		
9	5	4		
0	0	0		
1	1	0		
0	0	0		
2	1	1		
3	1	2		
2	1	1		
5	4	1		
0	0	0		
1	1	0		
2	1	1		
1	1	0		
1	0	1		
55	32	23		

Deaths with Methadone in			
Combination with Other Drugs			
Total	Cause	Present	
17	8	9	
6	3	3	
4	2	2	
35	26	9	
50	33	17	
69	50	19	
15	11	4	
9	5	4	
19	12	7	
18	14	4	
18	14	4	
32	21	11	
31	22	9	
7	6	1	
22	12	10	
1	1	0	
12	9	3	
27	20	7	
13	20 2 7	11	
11	7	4	
10	8	2	
3	0	3	
7	6	1	
3 5	3	0	
5	3	2	
444	298	146	

Methadone Deaths by Age January – December 2016

Medical Examiner District and Area of Florida			
District	Area of Florida	Total	
1	Pensacola	20	
2	Tallahassee	7	
3	Live Oak	5	
4	Jacksonville	35	
5	Leesburg	60	
6	St. Petersburg	75	
7	Daytona Beach	15	
8	Gainesville	12	
9	Orlando	21	
10	Lakeland	18	
11	Miami	18	
12	Sarasota	34	
13	Tampa	40	
14	Panama City	7	
15	West Palm Beach	23	
16	Florida Keys	1	
17	Ft. Lauderdale	14	
18	Melbourne	30	
19	Ft. Pierce	15	
20	Naples	16	
21	Ft. Myers	10	
22	Port Charlotte	4	
23	St. Augustine	9	
24	Sanford	4	
25	Kissimmee	6	
Statewide Totals 499			

	Methadone Caused Death				
	Age of Decedent				
Total	<18	18-25	26-34	35-50	>50
9	0	0	1	3	5
4	0	0	0	2	2
2	0	0	0	1	1
26	0	1	5	11	9
40	0	2	6	16	16
52	0	0	14	25	13
11	0	1	2	4	4
7	0	1	2	1	3
14	0	0	2	5	7
14	0	0	2	3	9
14	0	4	5	2	3
22	0	1	7	8	6
27	0	0	6	8	13
6	0	0	2	3	1
13	0	1	5	2	5
1	0	0	0	0	1
10	0	0	4	3	3
21	0	2	3	4	12
3	0	0	1	1	1
11	1	0	1	6	3
8	0	0	2	3	3
1	0	0	0	1	0
7	0	0	2	3	2
4	0	0	1	3	0
3	0	0	1	1	1
330	1	13	74	119	123

	Methadone Present at Death				
	Age of Decedent				
Total	<18	18-25	26-34	35-50	>50
11	0	0	2	4	5
3	0	1	1	0	1
3	0	0	0	1	2
9	0	1	1	6	1
20	0	1	3	9	7
23	1	1	5	5	11
4	0	0	1	3	0
5	1	1	2	1	0
7	0	0	2	2	3
4	0	1	1	0	2
4	0	0	0	2	2
12	0	0	5	3	4
13	0	0	3	3	7
1	0	0	0	1	0
10	0	0	1	6	3
0	0	0	0	0	0
4	0	0	1	1	2
9	0	0	0	2	7
12	0	0	1	7	4
5	0	0	0	0	5
2	0	0	0	1	1
3	0	0	0	2	1
2	0	0	0	2	0
0	0	0	0	0	0
3	0	0	0	2	1
169	2	6	29	63	69

Methadone Deaths by County 2016 Holmes Jackson Nassau Duval Taylor Alachua Levy Marion Volusia Citrus Hernando __Osceola Hardee Per 100,000 Population DeSoto Martin Glades Palm Beach 10.00 - 14.99 Collier Broward 15.00 - 19.99 Miami-Dade Monroe

Occurrences

0.01 - 4.99

5.00 - 9.99

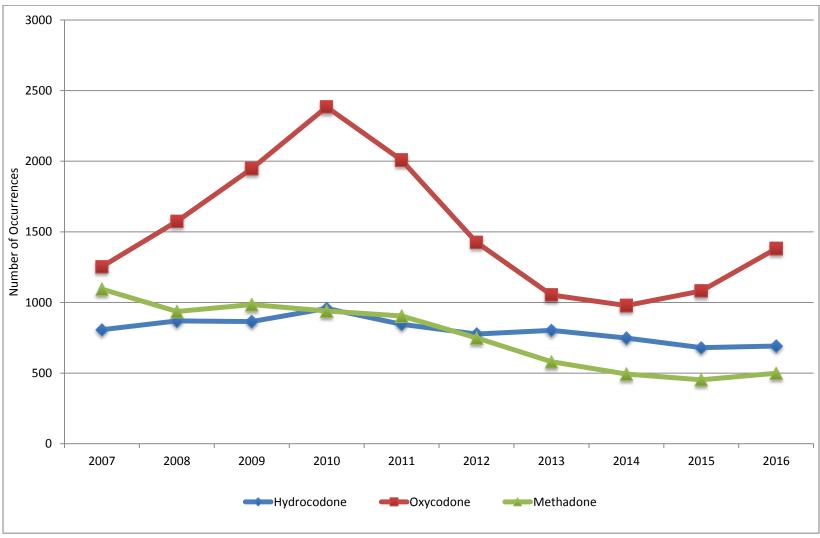
20.00 - 24.99

> 25.00

0

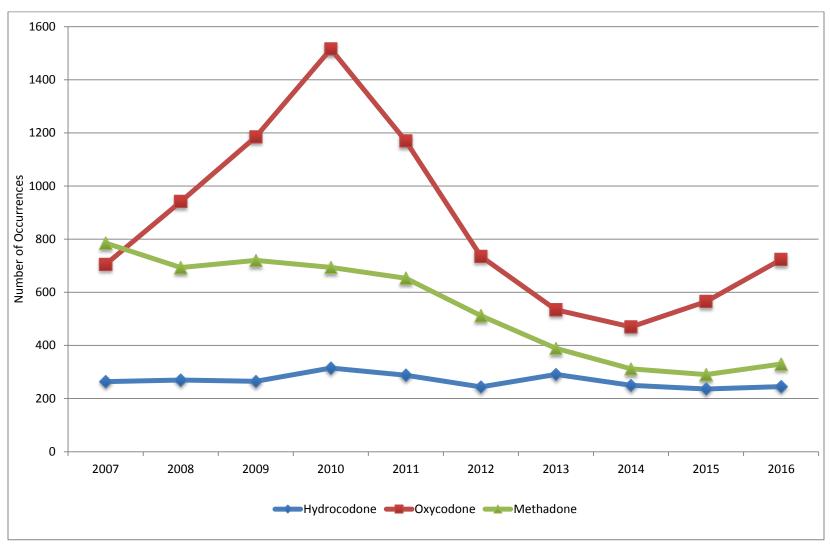
Historical Overview of Hydrocodone, Oxycodone, and Methadone Occurrences

(Present and Cause) 2007 to 2016



Note: In 2011, District 15 (West Palm Beach) data was inadvertently duplicated. The data has been corrected and is accurately reflected in this report.

Historical Overview of Deaths Caused by Hydrocodone, Oxycodone, and Methadone $2007\ \mathrm{to}\ 2016$



Note: In 2011, District 15 (West Palm Beach) data was inadvertently duplicated. The data has been corrected and is accurately reflected in this report.

Morphine Deaths

Medical Examiner District and Area of Florida		
District	Area of Florida	
1	Pensacola	
2	Tallahassee	
3	Live Oak	
4	Jacksonville	
5	Leesburg	
6	St. Petersburg	
7	Daytona Beach	
8	Gainesville	
9	Orlando	
10	Lakeland	
11	Miami	
12	Sarasota	
13	Tampa	
14	Panama City	
15	West Palm Beach	
16	Florida Keys	
17	Ft. Lauderdale	
18	Melbourne	
19	Ft. Pierce	
20	Naples	
21	Ft. Myers	
22	Port Charlotte	
23	St. Augustine	
24	Sanford	
25	Kissimmee	
Statewide Totals		

Total Deaths with Morphine		
Total	Cause	Present
62	46	16
20	3	17
12	7	5
145	125	20
122	74	48
145	84	61
45	29	16
24	9	15
148	100	48
47	16	31
237	172	65
77	23	54
109	64	45
15	6	9
256	227	29
12	8	4
193	132	61
76	52	24
49	23	26
34	19	15
81	55	26
39	4	35
14	5	9
40	32	8
38	23	15
2,040	1,338	702

Deaths with Morphine Only		
Total	Cause	Present
2	1	1
4	0	4
3	1	2
3	3	0
4	1	3
17	9	8
0	0	0
7	1	6
7	0	7
6	1	5
5	0	5
4	1	3
17	3	14
0	0	0
3	1	2
1	0	1
13	4	9
3	1	2
7	2	5
0	0	0
5	1	4
8	0	8
2	0	2
2	0	2
3	0	3
126	30	96

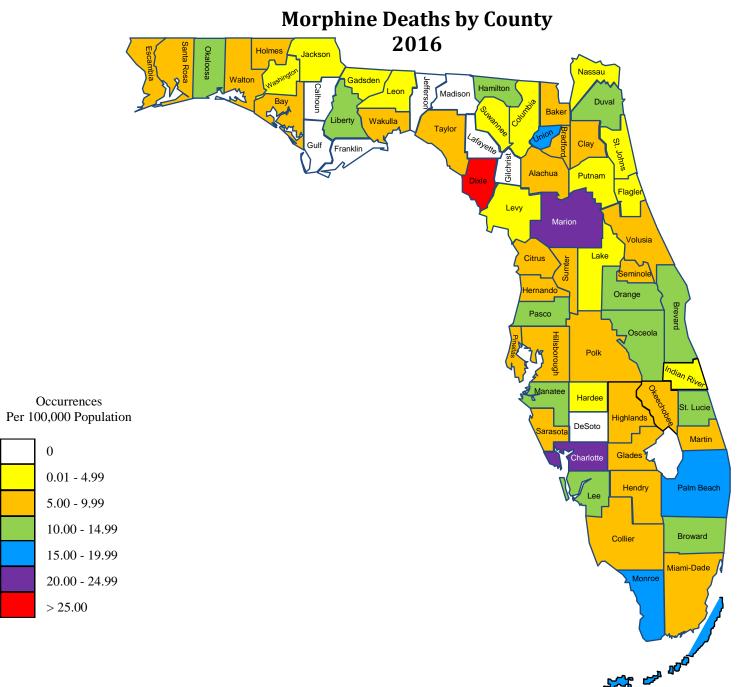
Deaths with Morphine in			
Combination with Other Drugs			
Total	Cause	Present	
60	45	15	
16	3	13	
9	6	3	
142	122	20	
118	73	45	
128	75	53	
45	29	16	
17	8	9	
141	100	41	
41	15	26	
232	172	60	
73	22	51	
92	61	31	
15	6	9	
253	226	27	
11	8	3	
180	128	52	
73	51	22	
42	21	21	
34	19	15	
76	54	22	
31	4	27	
12	5	7	
38	32	6	
35	23	12	
1,914	1,308	606	

Morphine Deaths by Age January – December 2016

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	62
2	Tallahassee	20
3	Live Oak	12
4	Jacksonville	145
5	Leesburg	122
6	St. Petersburg	145
7	Daytona Beach	45
8	Gainesville	24
9	Orlando	148
10	Lakeland	47
11	Miami	237
12	Sarasota	77
13	Tampa	109
14	Panama City	15
15	West Palm Beach	256
16	Florida Keys	12
17	Ft. Lauderdale	193
18	Melbourne	76
19	Ft. Pierce	49
20	Naples	34
21	Ft. Myers	81
22	Port Charlotte	39
23	St. Augustine	14
24	Sanford	40
25	Kissimmee	38
Statewide Totals 2,040		

	Morphine Caused Death				
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
46	1	6	14	15	10
3	0	0	0	1	2
7	0	0	1	5	1
125	1	12	30	48	34
74	0	4	19	25	26
84	0	5	10	30	39
29	0	5	8	13	3
9	1	0	1	3	4
100	1	15	19	37	28
16	0	0	6	4	6
172	1	25	60	47	39
23	0	2	5	3	13
64	0	4	22	23	15
6	0	1	1	2	2
227	1	56	58	71	41
8	0	0	2	6	0
132	0	7	41	52	32
52	0	5	12	20	15
23	0	0	7	7	9
19	0	3	7	5	4
55	0	9	14	21	11
4	0	0	2	1	1
5	0	2	0	2	1
32	1	7	10	9	5
23	0	5	6	9	3
1,338	7	173	355	459	344

	Mor	phine Pre	sent at D	eath	
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
16	0	2	4	5	5
17	1	1	2	5	8
5	0	0	0	1	4
20	0	0	4	7	9
48	0	3	9	23	13
61	0	3	12	22	24
16	0	1	0	5	10
15	1	1	1	1	11
48	1	3	4	10	30
31	0	3	5	6	17
65	0	1	12	31	21
54	0	3	12	16	23
45	1	3	5	16	20
9	0	1	2	4	2
29	0	3	10	7	9
4	0	1	1	2	0
61	0	6	17	17	21
24	0	1	5	5	13
26	0	1	6	4	15
15	0	1	1	2	11
26	0	1	5	9	11
35	0	0	5	10	20
9	0	0	1	3	5
8	0	2	0	4	2
15	0	1	4	2	8
702	4	42	127	217	312



Fentanyl Deaths

Medical Examiner District		
and Area of Florida		
District	Area of Florida	
1	Pensacola	
2	Tallahassee	
3	Live Oak	
4	Jacksonville	
5	Leesburg	
6	St. Petersburg	
7	Daytona Beach	
8	Gainesville	
9	Orlando	
10	Lakeland	
11	Miami	
12	Sarasota	
13	Tampa	
14	Panama City	
15	West Palm Beach	
16	Florida Keys	
17	Ft. Lauderdale	
18	Melbourne	
19	Ft. Pierce	
20	Naples	
21	Ft. Myers	
22	Port Charlotte	
23	St. Augustine	
24	Sanford	
25	Kissimmee	
Statewide Totals		

Total Deaths with Fentanyl			
Total	Cause	Present	
16	13	3	
7	4	3	
2	1	1	
281	239	42	
71	60	11	
70	58	12	
32	27	5	
13	11	2	
107	70	37	
21	17	4	
185	164	21	
52	42	10	
35	28	7	
11	10	1	
331	313	18	
8	8	0	
154	146	8	
53	38	15	
63	37	26	
14	12	2	
47	34	13	
12	5	7	
15	15	0	
29	25	4	
15	13	2	
1,644	1,390	254	

Deaths with Fentanyl Only		
Total	Cause	Present
3	2	1
2	2	0
0	0	0
17	12	5
8	7	1
5	4	1
0	0	0
2	1	1
13	5	8
2	1	1
1	0	1
2	1	1
6	3	3
0	0	0
42	41	1
2	2	0
18	14	4
8	2	6
7	4	3
0	0	0
8	5	3
0	0	0
2	2	0
1	1	0
2	1	1
151	110	41

Deaths with Fentanyl in Combination with Other Drugs			
Total	Cause	Present	
13	11	2	
5	2	3	
2	1	1	
264	227	37	
63	53	10	
65	54	11	
32	27	5	
11	10	1	
94	65	29	
19	16	3	
184	164	20	
50	41	9	
29	25	4	
11	10	1	
289	272	17	
6	6	0	
136	132	4	
45	36	9	
56	33	23	
14	12	2	
39	29	10	
12	5	7	
13	13	0	
28	24	4	
13	12	1	
1,493	1,280	213	

Fentanyl Deaths by Age January – December 2016

Medical Examiner District and Area of Florida			
District	Area of Florida	Total	
1	Pensacola	16	
2	Tallahassee	7	
3	Live Oak	2	
4	Jacksonville	281	
5	Leesburg	71	
6	St. Petersburg	70	
7	Daytona Beach	32	
8	Gainesville	13	
9	Orlando	107	
10	Lakeland	21	
11	Miami	185	
12	Sarasota	52	
13	Tampa	35	
14	Panama City	11	
15	West Palm Beach	331	
16	Florida Keys	8	
17	Ft. Lauderdale	154	
18	Melbourne	53	
19	Ft. Pierce	63	
20	Naples	14	
21	Ft. Myers	47	
22	Port Charlotte	12	
23	St. Augustine	15	
24	Sanford	29	
25	Kissimmee	15	
Statewide Totals 1,644			

	Fentanyl Caused Death				
	Age of Decedent				
Total	<18	18-25	26-34	35-50	>50
13	0	3	4	4	2
4	0	1	2	1	0
1	0	0	0	0	1
239	3	22	69	108	37
60	0	6	11	28	15
58	2	8	16	19	13
27	0	3	6	12	6
11	0	1	4	5	1
70	0	12	18	28	12
17	1	2	6	6	2
164	1	20	52	57	34
42	0	5	12	11	14
28	1	4	12	6	5
10	0	0	4	4	2
313	0	67	109	97	40
8	0	1	1	4	2
146	2	20	42	59	23
38	0	3	10	17	8
37	0	6	11	13	7
12	0	3	4	3	2
34	0	2	13	12	7
5	0	0	3	2	0
15	0	3	3	8	1
25	0	4	11	5	5
13	1	1	5	4	2
1,390	11	197	428	513	241

	Fentanyl Present at Death				
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
3	0	0	1	1	1
3	0	0	0	2	1
1	0	0	0	1	0
42	1	6	8	9	18
11	0	2	1	5	3
12	1	0	3	4	4
5	0	0	0	2	3
2	0	1	0	1	0
37	0	2	2	12	21
4	0	0	0	3	1
21	1	1	5	9	5
10	0	1	2	2	5
7	0	0	1	3	3
1	0	1	0	0	0
18	0	3	4	4	7
0	0	0	0	0	0
8	0	0	2	2	4
15	1	0	4	5	5
26	0	4	2	6	14
2	0	1	0	0	1
13	0	1	5	3	4
7	0	0	1	5	1
0	0	0	0	0	0
4	0	1	0	1	2
2	0	0	0	0	2
254	4	24	41	80	105

Fentanyl Deaths by County 2016 Jackson Nassau Hamilton Madison Wakulla Taylor Alachua Levy Marion Volusia Citrus Hernando Orange Osceola Polk Hardee Per 100,000 Population Glades Hendry Palm Beach 10.00 - 14.99 Broward Collier 15.00 - 19.99 Monroe 20.00 - 24.99

Occurrences

0.01 - 4.99

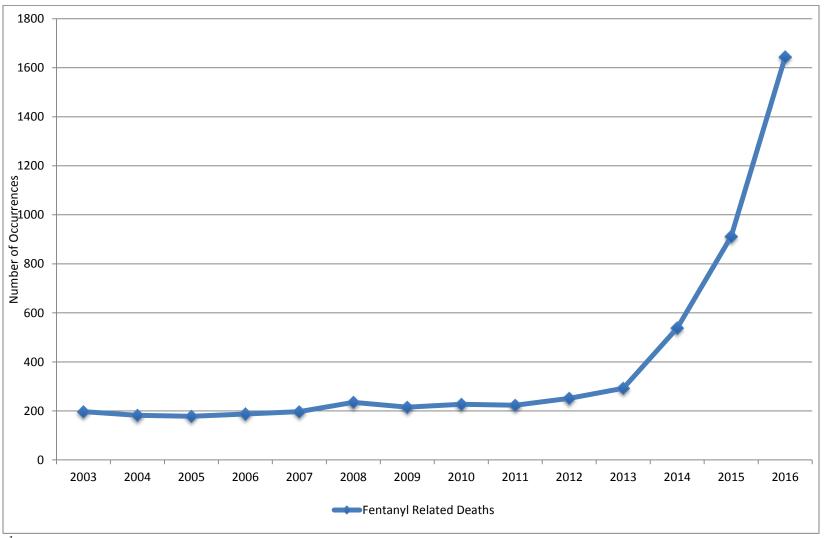
5.00 - 9.99

> 25.00

0

Historical Overview of Fentanyl Occurrences¹

(Present and Cause) 2003 to 2016



¹Prior to 2016, the number of fentanyl occurrences indicated includes occurrences of fentanyl analogs. Starting in 2016, fentanyl analogs were tracked separately. Note: In 2011, District 15 (West Palm Beach) data was inadvertently duplicated. The data has been corrected and is accurately reflected in this report.

Prescription Drugs in Medical Examiner Deaths

2015 versus 2016

Medical Examiner District and Area of Florida			
District	Area of Florida		
1	Pensacola		
2	Tallahassee		
3	Live Oak		
4	Jacksonville		
5	Leesburg		
6	St. Petersburg		
7	Daytona Beach		
8	Gainesville		
9	Orlando		
10	Lakeland		
11	Miami		
12	Sarasota		
13	Tampa		
14	Panama City		
15	West Palm Beach		
16	Florida Keys		
17	Ft. Lauderdale		
18	Melbourne		
19	Ft. Pierce		
20	Naples		
21	Ft. Myers		
22	Port Charlotte		
23	St. Augustine		
24	Sanford		
25	Kissimmee		

These tables are based on prescription drugs tracked by the Medical Examiners Commission and reported by Florida Medical Examiners. Do not add across columns.

Statewide Totals

Total Prescription Drug Deaths in ME Deaths (Present and Cause)				
2015	2016	Percent		
208	173	Change -16.8%		
51	82	60.8%		
36	49	36.1%		
355	619	74.4%		
191	398	108.4%		
472	550	16.5%		
174				
	181	4.0%		
106	100	-5.7%		
428	412	-3.7%		
199	190	-4.5%		
541	641	18.5%		
332	285	-14.2%		
360	381	5.8%		
89	102	14.6%		
394	694	76.1%		
52	40	-23.1%		
292	523	79.1%		
271	301	11.1%		
197	262	33.0%		
87	95	9.2%		
207	209	1.0%		
70	87	24.3%		
69	84	21.7%		
93	100	7.5%		
90	100	11.1%		
5,364	6,658	24.1%		

These individuals died with one or more prescription drugs in their system. The drugs were identified as either the cause of death or merely present in the decedent and also may have been mixed with illicit drugs and/or alcohol.

Accidental Deaths with Prescription Drugs (Present and Cause)				
2015	2016	Percent		
		Change		
128	107	-16.4%		
22	43	95.5%		
22	30	36.4%		
220	483	119.5%		
103	269	161.2%		
278	357	28.4%		
97	102	5.2%		
51	53	3.9%		
257	254	-1.2%		
96	109	13.5%		
288	390	35.4%		
224	195	-12.9%		
188	209	11.2%		
43	55	27.9%		
251	562	123.9%		
21	26	23.8%		
220	423	92.3%		
161	173	7.5%		
107	166	55.1%		
49	57	16.3%		
118	138	16.9%		
36	38	5.6%		
30	49	63.3%		
44	61	38.6%		
50	54	8.0%		
3,104 4,403 41.8%				

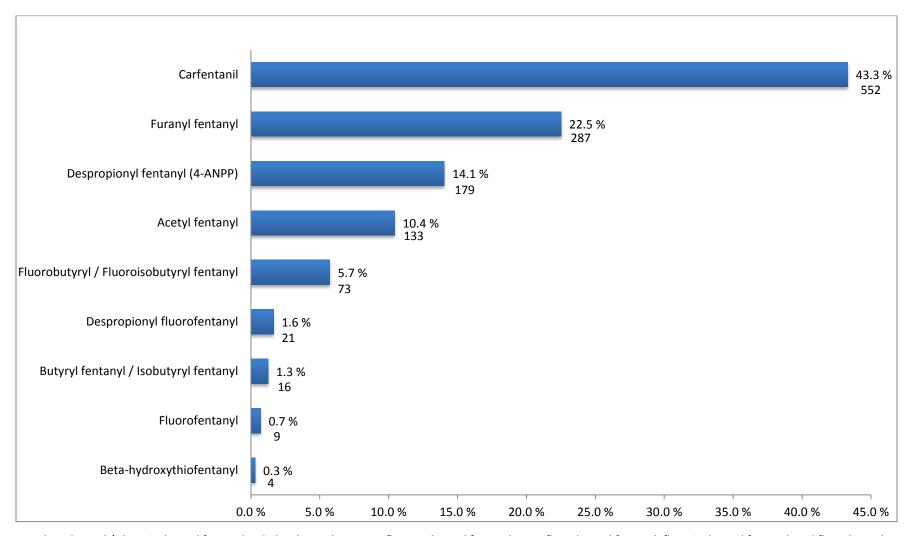
The manner of death for these decedents was reported as accidental. These individuals died with one or more prescription drugs in their system. The drugs were identified as either the cause of death or merely present in the decedent and also may have been mixed with illicit drugs and/or alcohol.

Accidental Deaths Caused by Prescription Drugs				
2015	2016	Percent		
2015	2016	Change		
91	82	-9.9%		
14	23	64.3%		
15	14	-6.7%		
161	404	150.9%		
63	186	195.2%		
212	291	37.3%		
69	64	-7.2%		
30	28	-6.7%		
182	183	0.5%		
58	63	8.6%		
166	263	58.4%		
176	136	-22.7%		
134	153	14.2%		
23	38	65.2%		
182	481	164.3%		
12	21	75.0%		
194	330	70.1%		
114	112	-1.8%		
69	87	26.1%		
39	44	12.8%		
77	96	24.7%		
19	13	-31.6%		
19	34	78.9%		
35	52	48.6%		
37	36	-2.7%		
2,191	3,234	47.6%		

The manner of death for these decedents was reported as accidental. These individuals died with at least one prescription drug in their system that was identified as causing or contributing to the death. These drugs may also have been mixed with illicit drugs and/or alcohol.

Frequency of Occurrence of Fentanyl Analogs

January - December 2016



Note: Fluorobutyryl / Fluoroisobutyryl fentanyl includes the analytes para-fluoroisobutyryl fentanyl, para-fluorobutyryl fentanyl, fluoroisobutyryl fentanyl, and fluorobutyryl fentanyl. Fluorofentanyl includes the analytes fluorofentanyl, ortho-fluorofentanyl, and para-fluorofentanyl. Percentages may not sum to 100 percent because of rounding.

Fentanyl Analog Deaths

January – December 2016

Medical Examiner District			
and a	Area of Florida		
District	Area of Florida		
1	Pensacola		
2	Tallahassee		
3	Live Oak		
4	Jacksonville		
5	Leesburg		
6	St. Petersburg		
7	Daytona Beach		
8	Gainesville		
9	Orlando		
10	Lakeland		
11	Miami		
12	Sarasota		
13	Tampa		
14	Panama City		
15	West Palm Beach		
16	Florida Keys		
17	Ft. Lauderdale		
18	Melbourne		
19	Ft. Pierce		
20	Naples		
21	Ft. Myers		
22	Port Charlotte		
23	St. Augustine		
24	Sanford		
25 Kissimmee			
Statewide Totals			

Total Deaths with				
Fentanyl Analogs				
Total	Cause	Present		
13	13	0		
2	2	0		
0	0	0		
108	105	3		
46	41	5		
49	47	2		
9	9	0		
3	3	0		
31	28	3		
11	11	0		
163	156	7		
126	122	4		
7	7	0		
8	8	0		
183	158	25		
3	3	0		
146	140	6		
18	17	1		
36	34	2		
14	13	1		
23	22	1		
0	0	0		
9	9	0		
9	9	0		
9	8	1		
1,026	965	61		

	Deaths with			
Fenta	nyl Analogs (Only		
Total	Cause	Present		
0	0	0		
0	0	0		
0	0	0		
5	5	0		
5	5	0		
5	5	0		
0	0	0		
2	2	0		
2	2	0		
2	2	0		
5	5	0		
11	11	0		
0	0	0		
1	1	0		
25	25	0		
1	1	0		
15	15	0		
2	2	0		
5	5	0		
0	0	0		
4	4	0		
0	0	0		
2	2	0		
1	1	0		
2	1	1		
95 94 1				

Deaths with Fentanyl Analogs in Combination with Other Drugs				
Total	Cause	Present		
13	13	0		
2	2	0		
0	0	0		
103	100	3		
41	36	5		
44	42	2		
9	9	0		
1	1	0		
29	26	3		
9	9	0		
158	151	7		
115	111	4		
7	7	0		
7	7	0		
158	133	25		
2	2	0		
131	125	6		
16	15	1		
31	29	2		
14	13	1		
19	18	1		
0	0	0		
7	7	0		
8	8	0		
7	7	0		
931	871	60		

Fentanyl Analog Deaths by Age

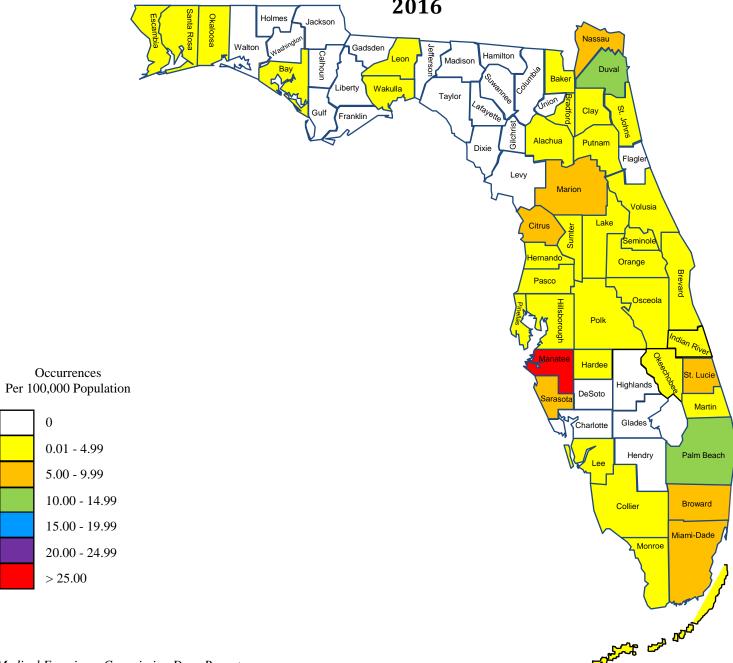
January – December 2016

Medical Examiner District and Area of Florida			
District	Area of Florida	Total	
1	Pensacola	13	
2	Tallahassee	2	
3	Live Oak	0	
4	Jacksonville	108	
5	Leesburg	46	
6	St. Petersburg	49	
7	Daytona Beach	9	
8	Gainesville	3	
9	Orlando	31	
10	Lakeland	11	
11	Miami	163	
12	Sarasota	126	
13	Tampa	7	
14	Panama City	8	
15	West Palm Beach	183	
16	Florida Keys	3	
17	Ft. Lauderdale	146	
18	Melbourne	18	
19	Ft. Pierce	36	
20	Naples	14	
21	Ft. Myers	23	
22	Port Charlotte	0	
23	St. Augustine	9	
24	Sanford	9	
25	Kissimmee	9	
Statewide Totals 1,026			

	Fentanyl Analogs Caused Death							
	Age of Decedent							
Total	<18	18-25	26-34	35-50	>50			
13	0	2	5	5	1			
2	0	0	1	0	1			
0	0	0	0	0	0			
105	0	10	37	47	11			
41	0	3	7	21	10			
47	0	5	12	23	7			
9	0	1	3	3	2			
3	0	0	1	2	0			
28	0	0	9	11	8			
11	1	2	5	1	2			
156	0	18	58	50	30			
122	0	15	41	46	20			
7	0	1	3	2	1			
8	0	3	2	2	1			
158	0	28	58	54	18			
3	0	0	1	1	1			
140	0	17	47	45	31			
17	0	2	5	8	2			
34	0	3	15	9	7			
13	0	2	5	4	2			
22	0	2	8	8	4			
0	0	0	0	0	0			
9	0	2	4	2	1			
9	0	2	3	1	3			
8	0	1	3	4	0			
965	1	119	333	349	163			

	Fentanyl Analogs Present at Death						
Age of Decedent							
Total	<18	18-25	26-34	35-50	>50		
0	0	0	0	0	0		
0	0	0	0	0	0		
0	0	0	0	0	0		
3	0	1	1	1	0		
5	0	0	1	2	2		
2	0	0	0	1	1		
0	0	0	0	0	0		
0	0	0	0	0	0		
3	0	2	0	1	0		
0	0	0	0	0	0		
7	0	0	3	2	2		
4	0	0	3	0	1		
0	0	0	0	0	0		
0	0	0	0	0	0		
25	0	5	9	8	3		
0	0	0	0	0	0		
6	0	0	3	2	1		
1	0	1	0	0	0		
2	0	1	0	1	0		
1	0	0	0	0	1		
1	0	0	0	1	0		
0	0	0	0	0	0		
0	0	0	0	0	0		
0	0	0	0	0	0		
1	0	0	0	1	0		
61	0	10	20	20	11		

Fentanyl Analog Deaths by County 2016



Cocaine Deaths

January – December 2016

	Medical Examiner District					
	and Area of Florida					
District	Area of Florida					
1	Pensacola					
2	Tallahassee					
3	Live Oak					
4	Jacksonville					
5	Leesburg					
6	St. Petersburg					
7	Daytona Beach					
8	Gainesville					
9	Orlando					
10	Lakeland					
11	Miami					
12	Sarasota					
13	Tampa					
14	Panama City					
15	West Palm Beach					
16	Florida Keys					
17	Ft. Lauderdale					
18	Melbourne					
19	Ft. Pierce					
20	Naples					
21	Ft. Myers					
22	Port Charlotte					
23	St. Augustine					
24	Sanford					
25	Kissimmee					
Statewide Totals						

Total Deaths with Cocaine				
Total	Cause	Present		
57	21	36		
32	14	18		
10	1	9		
266	186	80		
128	98	30		
157	94	63		
51	17	34		
41	18	23		
230	133	97		
53	40	13		
439	254	185		
147	96	51		
108	46	62		
5	2	3		
405	291	114		
20	7	13		
328	250	78		
103	65	38		
71	36	35		
40	21	19		
99	43	56		
9	1	8		
23	6	17		
37	17	20		
23	12	11		
2,882	1,769	1,113		

Deaths	Deaths with Cocaine Only				
Total	Cause	Present			
7	2	5			
5	4	1			
1	0	1			
20	14	6			
14	12	2			
18	9	9			
5	1	4			
11	5	6			
45	21	24			
10	9	1			
47	22	25			
22	18	4			
26	9	17			
0	0	0			
48	32	16			
2	1	1			
53	43	10			
13	7	6			
6	2	4			
5	3	2			
11	2	9			
1	0	1			
6	1	5			
2	2	0			
5	2	3			
383	221	162			

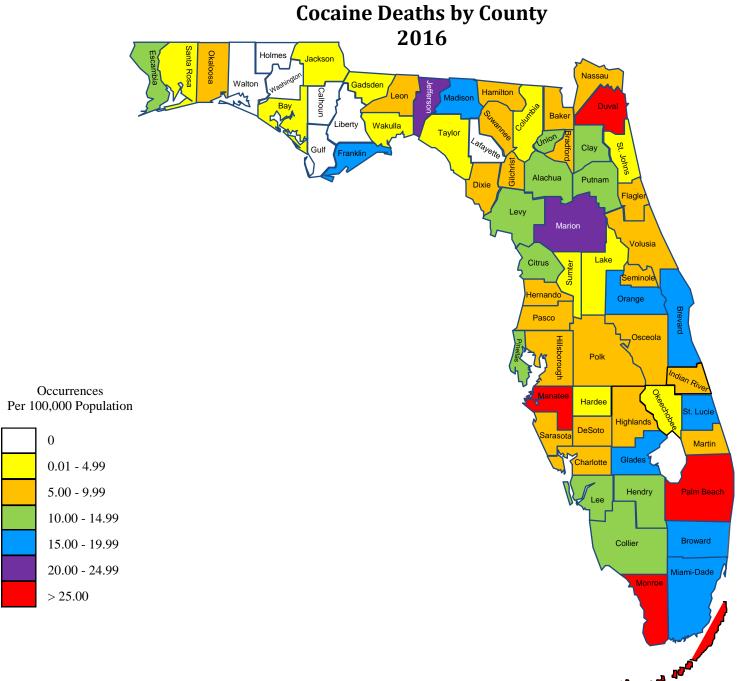
	Deaths with Cocaine in					
Combinat	tion with Ot	her Drugs				
Total	Cause	Present				
50	19	31				
27	10	17				
9	1	8				
246	172	74				
114	86	28				
139	85	54				
46	16	30				
30	13	17				
185	112	73				
43	31	12				
392	232	160				
125	78	47				
82	37	45				
5	2	3				
357	259	98				
18	6	12				
275	207	68				
90	58	32				
65	34	31				
35	18	17				
88	41	47				
8	1	7				
17	5	12				
35	15	20				
18	10	8				
2.499	1.548	951				

Cocaine Deaths by Age January – December 2016

Medical Examiner District and Area of Florida				
District	Area of Florida	Total		
1	Pensacola	57		
2	Tallahassee	32		
3	Live Oak	10		
4	Jacksonville	266		
5	Leesburg	128		
6	St. Petersburg	157		
7	Daytona Beach	51		
8	Gainesville	41		
9	Orlando	230		
10	Lakeland	53		
11	Miami	439		
12	Sarasota	147		
13	Tampa	108		
14	Panama City	5		
15	West Palm Beach	405		
16	Florida Keys	20		
17	Ft. Lauderdale	328		
18	Melbourne	103		
19	Ft. Pierce	71		
20	Naples	40		
21	Ft. Myers	99		
22	Port Charlotte	9		
23	St. Augustine	23		
24	Sanford	37		
25	Kissimmee	23		
Stat	ewide Totals	2,882		

	Cocaine Caused Death						
Age of Decedent							
Total	<18	18-25	26-34	35-50	>50		
21	0	2	4	8	7		
14	0	1	1	7	5		
1	0	0	0	1	0		
186	5	15	49	75	42		
98	0	9	19	41	29		
94	2	5	28	29	30		
17	0	2	3	8	4		
18	0	2	3	3	10		
133	0	17	29	44	43		
40	0	2	5	8	25		
254	1	22	82	92	57		
96	0	7	25	32	32		
46	0	5	9	18	14		
2	0	0	0	2	0		
291	1	45	75	114	56		
7	0	0	1	4	2		
250	0	17	66	106	61		
65	0	2	20	24	19		
36	1	2	11	9	13		
21	1	1	8	8	3		
43	0	6	15	16	6		
1	0	0	0	1	0		
6	0	1	0	4	1		
17	0	2	3	5	7		
12	0	1	5	6	0		
1,769	11	166	461	665	466		

Cocaine Present at Death							
Age of Decedent							
Total	<18	18-25	26-34	35-50	>50		
36	1	5	7	15	8		
18	0	4	2	9	3		
9	0	1	1	5	2		
80	0	11	23	29	17		
30	1	7	8	10	4		
63	0	5	19	26	13		
34	0	6	9	13	6		
23	2	1	2	7	11		
97	1	16	28	30	22		
13	0	1	6	5	1		
185	2	21	50	67	45		
51	0	11	11	21	8		
62	0	11	11	16	24		
3	0	0	1	1	1		
114	0	27	37	31	19		
13	1	0	1	10	1		
78	0	11	24	28	15		
38	0	6	12	12	8		
35	0	5	7	13	10		
19	0	4	5	6	4		
56	0	5	11	26	14		
8	0	0	2	3	3		
17	0	1	8	7	1		
20	0	3	6	5	6		
11	0	1	2	5	3		
1,113	8	163	293	400	249		



Cocaine Related Deaths by Medical Examiner District

(Present and Cause) 2002 to 2016

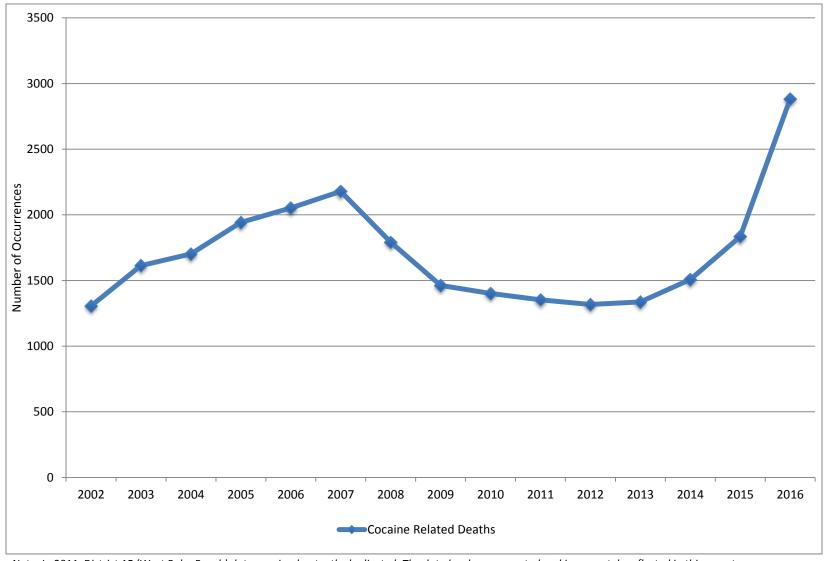
District	Area of Florida	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
1	Pensacola	37	46	59	69	78	76	56	33	36	34	34	31	56	80	57
2	Tallahassee	33	43	38	58	51	40	27	30	25	36	25	23	20	18	32
3	Live Oak	7	13	22	19	16	10	13	16	9	8	13	10	6	5	10
4	Jacksonville	148	184	205	195	246	248	165	125	115	113	119	119	107	146	266
5	Leesburg	47	56	69	60	21	45	67	56	52	48	46	57	62	54	128
6	St. Petersburg	89	116	150	138	185	173	154	139	134	112	125	100	98	101	157
7	Daytona Beach	35	42	43	77	64	84	51	58	44	43	36	37	34	37	51
8	Gainesville	15	45	43	48	47	42	32	39	39	34	30	29	30	31	41
9	Orlando	116	124	136	165	178	190	179	145	128	124	120	137	181	203	230
10	Lakeland	30	43	46	75	53	41	40	35	42	29	27	37	33	33	53
11	Miami	151	189	160	162	182	281	201	155	198	184	198	226	234	289	439
12	Sarasota	46	83	69	83	106	105	75	59	57	54	60	60	84	134	147
13	Tampa	79	81	108	115	130	158	146	54	83	96	59	74	65	84	108
14	Panama City	24	31	22	24	32	31	17	20	9	9	10	11	13	15	5
15	West Palm Beach	113	147	151	197	191	168	143	126	106	91	87	105	143	173	405
16	Florida Keys	16	11	10	18	16	27	15	14	11	7	13	4	6	13	20
17	Ft. Lauderdale	121	138	120	136	150	157	146	135	127	115	129	102	99	152	328
18	Melbourne	48	66	62	84	80	62	68	59	49	38	52	53	60	86	103
19	Ft. Pierce	33	33	43	58	45	46	47	35	20	40	24	34	50	49	71
20	Naples	23	15	21	24	34	29	15	21	13	23	16	10	29	23	40
21	Ft. Myers	55	68	84	78	96	79	67	48	53	73	56	51	63	71	99
22	Port Charlotte	5	3	10	14	14	19	14	9	5	7	9	2	10	12	9
23	St. Augustine	23	24	20	24	17	33	27	19	23	15	11	11	1	9	23
24	Sanford	13	13	11	22	20	35	26	32	24	20	19	14	24	16	37
25	Kissimmee															23
Sta	tewide Total	1,307	1,614	1,702	1,943	2,052	2,179	1,791	1,462	1,402	1,353	1,318	1,337	1,508	1,834	2,882

Note: In 2011, District 15 (West Palm Beach) data was inadvertently duplicated. The data has been corrected and is accurately reflected in this report.

Prior to 2016, District 9 included Orange and Osceola counties. Both counties enacted Home Rule authority in 2016 and District 9 was split into two districts, with Orange County staying District 9 and Osceola County becoming District 25.

Historical Overview of Cocaine Occurrences

(Present and Cause) 2002 to 2016



Note: In 2011, District 15 (West Palm Beach) data was inadvertently duplicated. The data has been corrected and is accurately reflected in this report.

Heroin Deaths

January - December 2016

Medical Examiner District and Area of Florida			
District	Area of Florida		
1	Pensacola		
2	Tallahassee		
3	Live Oak		
4	Jacksonville		
5	Leesburg		
6	St. Petersburg		
7	Daytona Beach		
8	Gainesville		
9	Orlando		
10	Lakeland		
11	Miami		
12	Sarasota		
13	Tampa		
14	Panama City		
15	West Palm Beach		
16	Florida Keys		
17	Ft. Lauderdale		
18	Melbourne		
19	Ft. Pierce		
20	Naples		
21	Ft. Myers		
22	Port Charlotte		
23	St. Augustine		
24	Sanford		
25	Kissimmee		
Sta	tewide Totals		

Total Deaths with Heroin				
Total	Cause	Present		
34	32	2		
1	0	1		
0	0	0		
81	80	1		
40	39	1		
18	16	2		
21	21	0		
2	2	0		
68	66	2		
11	7	4		
139	133	6		
32	21	11		
52	49	3		
8	8	0		
205	194	11		
7	6	1		
180	161	19		
21	19	2		
7	7	0		
15	15	0		
30	27	3		
3	3	0		
6	5	1		
27	26	1		
15	15	0		
1.023	952	71		

Deaths with Heroin Only								
Total	Cause	Present						
0	0	0						
0	0	0						
0	0	0						
1	1	0						
0	0	0						
0	0	0						
0	0	0						
1	1	0						
0	0	0						
1	1	0						
0	0	0						
0	0	0						
0	0	0						
0	0	0						
0	0	0						
0	0	0						
10	10	0						
0	0	0						
0	0	0						
0	0	0						
0	0	0						
0	0	0						
0	0	0						
0	0	0						
0	0	0						
13	13	0						

Deaths with Heroin in								
Combinat	tion with Ot	her Drugs						
Total	Cause	Present						
34	32	2						
1	0	1						
0	0	0						
80	79	1						
40	39	1						
18	16	2						
21	21	0						
1	1	0						
68	66	2						
10	6	4						
139	133	6						
32	21	11						
52	49	3						
8	8	0						
205	194	11						
7	6	1						
170	151	19						
21	19	2						
7	7	0						
15	15	0						
30	27	3						
3	3	0						
6	5	1						
27	26	1						
15	15	0						
1,010	939	71						

Heroin Deaths by Age January – December 2016

Medical Examiner District and Area of Florida						
District	Area of Florida	Total				
1	Pensacola	34				
2	Tallahassee	1				
3	Live Oak	0				
4	Jacksonville	81				
5	Leesburg	40				
6	St. Petersburg	18				
7	Daytona Beach	21				
8	Gainesville	2				
9	Orlando	68				
10	Lakeland	11				
11	Miami	139				
12	Sarasota	32				
13	Tampa	52				
14	Panama City	8				
15	West Palm Beach	205				
16	Florida Keys	7				
17	Ft. Lauderdale	180				
18	Melbourne	21				
19	Ft. Pierce	7				
20	Naples	15				
21	Ft. Myers	30				
22	Port Charlotte	3				
23	St. Augustine	6				
24	Sanford	27				
25	Kissimmee	15				
Stat	1,023					

Heroin Caused Death									
Age of Decedent									
Total	<18	35-50	>50						
32	0	5	12	13	2				
0	0	0	0	0	0				
0	0	0	0	0	0				
80	0	6	26	33	15				
39	0	4	9	18	8				
16	0	3	3	6	4				
21	0	3	6	10	2				
2	0	0	0	0	2				
66	0	12	12	27	15				
7	0	2	1	2	2				
133	0	17	50	36	30				
21	0	2	5	8	6				
49	0	3	19	18	9				
8	0	2	1	2	3				
194	1	54	51	60	28				
6	0	0	1	5	0				
161	0	22	60	57	22				
19	0	3	5	7	4				
7	0	0	4	1	2				
15	0	1	4	5	5				
27	0	4	8	12	3				
3	0	0	1	2	0				
5	0	0	1	2	2				
26	1	6	10	6	3				
15	0	3	5	6	1				
952	2 152 294 336								

Heroin Present at Death									
Age of Decedent									
Total	<18								
2	0	0	0	1	1				
1	0	0	0	1	0				
0	0	0	0	0	0				
1	0	0	1	0	0				
1	0	0	1	0	0				
2	0	0	1	0	1				
0	0	0	0	0	0				
0	0	0	0	0	0				
2	0	1	1	0	0				
4	0	2	2	0	0				
6	0	0	1	3	2				
11	0	1	6	2	2				
3	0	1	1	1	0				
0	0	0	0	0	0				
11	0	2	5	4	0				
1	0	0 0 1		0					
19	0	0	6	7	6				
2	0	0	1	0	1				
0	0	0	0	0	0				
0	0	0	0	0	0				
3	0	0	2	1	0				
0	0	0	0	0	0				
1	0	0	0	1	0				
1	0	0	0	1	0				
0	0	0	0	0	0				
71	0	7	28	23	13				

Heroin Deaths by County 2016 Holmes Jackson Nassau Madison Wakulla Taylor Franklin Alachua Dixie Levy Marion Volusia Hernando Osceola Polk Occurrences Hardee Per 100,000 Population Highlands DeSoto Martin Glades 0.01 - 4.99 Hendry Palm Beach 5.00 - 9.99 10.00 - 14.99 Collier Broward 15.00 - 19.99 Miami-Dade 20.00 - 24.99 Monroe

0

> 25.00

Heroin Related Deaths by Medical Examiner District

(Present and Cause) 2002 to 2016

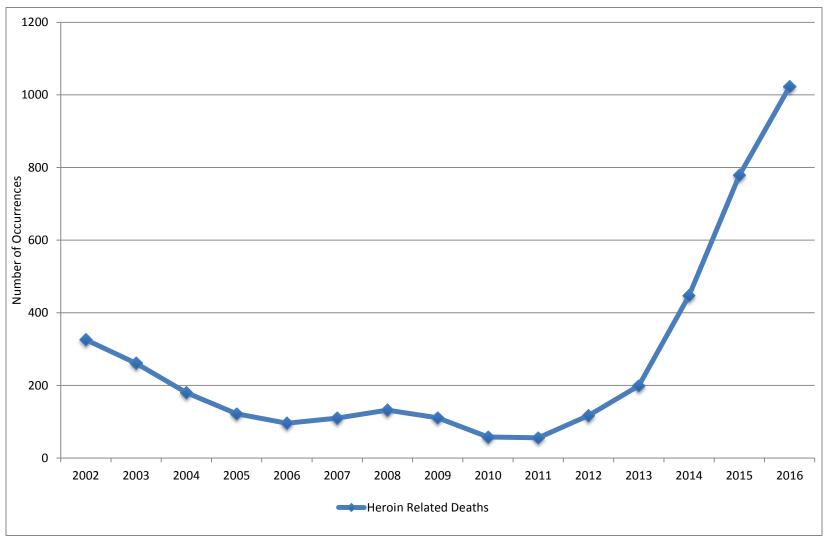
District	Area of Florida	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
1	Pensacola	0	0	0	0	1	0	1	2	0	0	1	3	12	28	34
2	Tallahassee	0	1	0	0	0	0	0	0	0	1	0	1	2	0	1
3	Live Oak	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
4	Jacksonville	17	7	5	5	4	8	3	4	1	3	14	15	16	45	81
5	Leesburg	5	2	1	0	0	0	5	1	0	1	3	2	16	8	40
6	St. Petersburg	33	23	14	13	7	12	5	9	3	1	1	4	7	14	18
7	Daytona Beach	5	6	4	2	1	2	0	3	1	0	1	3	4	20	21
8	Gainesville	0	0	0	0	0	0	0	0	0	0	2	1	2	3	2
9	Orlando	33	38	22	15	7	16	16	24	10	18	26	41	83	108	68
10	Lakeland	2	0	3	2	2	0	0	2	1	0	1	4	7	10	11
11	Miami	46	32	18	22	20	26	38	30	26	15	33	40	60	92	139
12	Sarasota	5	20	15	9	14	4	19	4	2	2	8	19	55	68	32
13	Tampa	34	19	14	6	7	11	5	2	1	2	2	3	22	35	52
14	Panama City	0	0	0	0	0	1	0	0	1	0	0	2	2	4	8
15	West Palm Beach	41	28	29	19	8	10	7	7	4	6	6	20	51	165	205
16	Florida Keys	5	0	1	0	1	0	1	1	0	0	1	1	0	1	7
17	Ft. Lauderdale	50	49	35	17	13	4	17	8	5	3	9	11	28	80	180
18	Melbourne	9	10	3	2	1	1	1	2	0	0	0	2	7	12	21
19	Ft. Pierce	4	3	3	1	3	3	3	1	1	1	2	3	7	8	7
20	Naples	17	3	4	1	4	1	1	0	0	0	0	2	14	11	15
21	Ft. Myers	11	13	4	1	2	4	7	9	0	1	4	12	30	43	30
22	Port Charlotte	5	0	1	3	1	0	0	1	0	0	1	1	3	2	3
23	St. Augustine	1	0	0	0	0	0	0	0	1	0	1	1	1	2	6
24	Sanford	3	7	4	4	0	7	3	1	1	2	1	7	18	19	27
25	Kissimmee															15
State	wide Totals	326	261	180	122	96	110	132	111	58	56	117	199	447	779	1,023

Note: In 2011, District 15 (West Palm Beach) data was inadvertently duplicated. The data has been corrected and is accurately reflected in this report.

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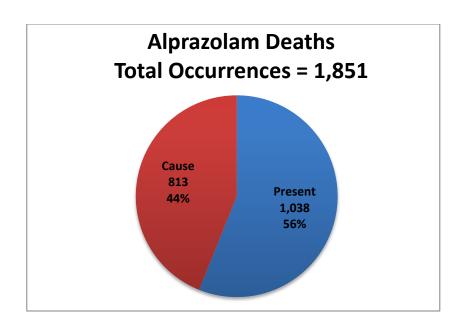
Historical Overview of Heroin Occurrences

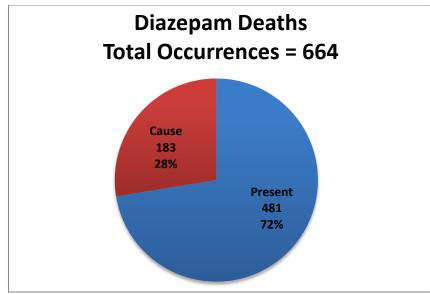
(Present and Cause) 2002 to 2016



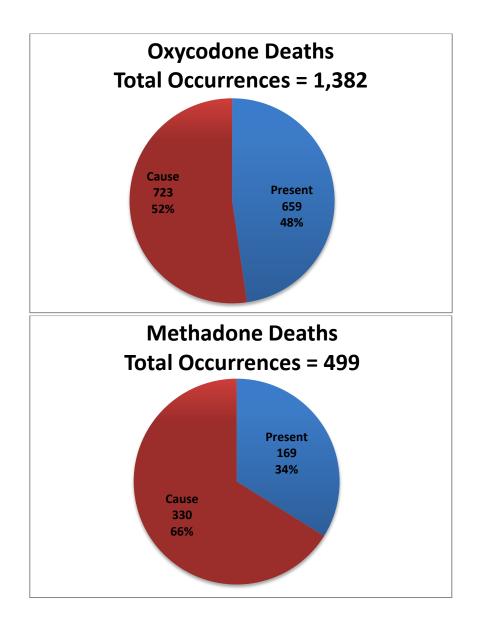
Note: In 2011, District 15 (West Palm Beach) data was inadvertently duplicated. The data has been corrected and is accurately reflected in this report.

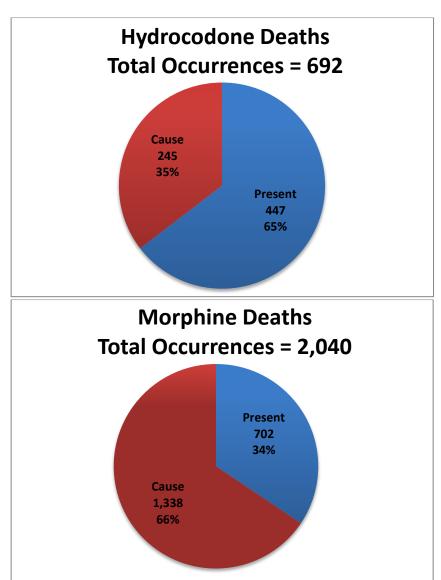
Drug Detected at Death: Cause vs. Present



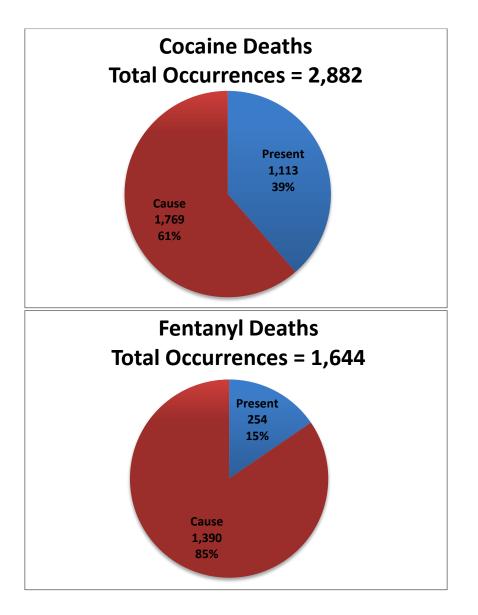


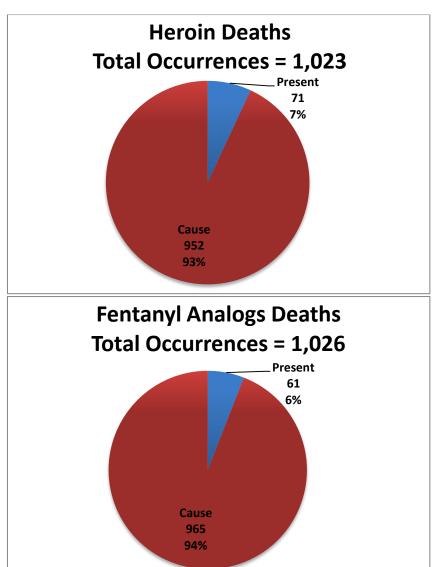
Drug Detected at Death: Cause vs. Present





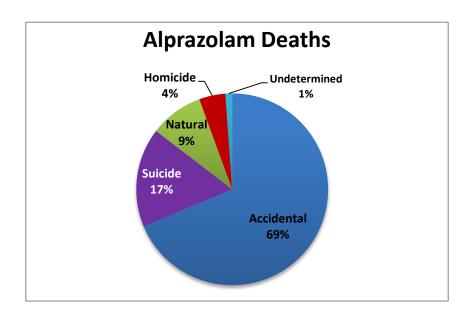
Drug Detected at Death: Cause vs. Present

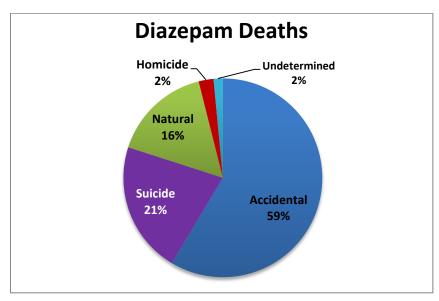




Manner of Death for Cases Reported

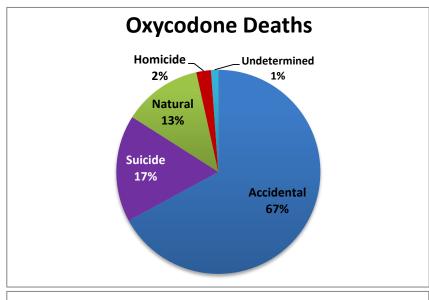
(Accidental, Homicide, Natural, Suicide, or Undetermined)

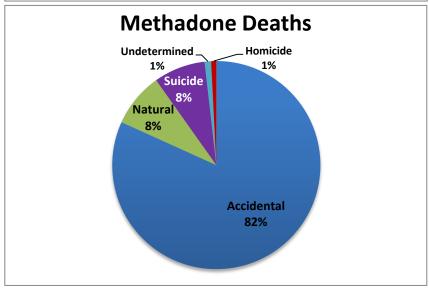


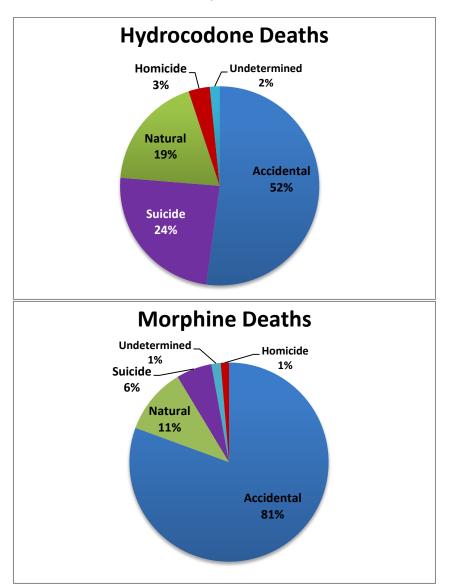


Manner of Death for Cases Reported

(Accidental, Homicide, Natural, Suicide, or Undetermined)

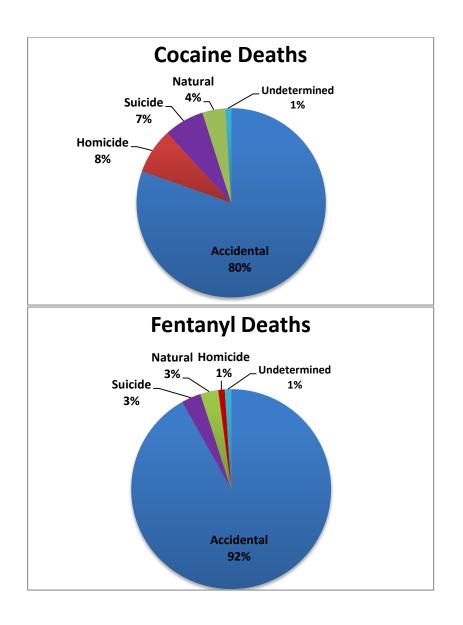


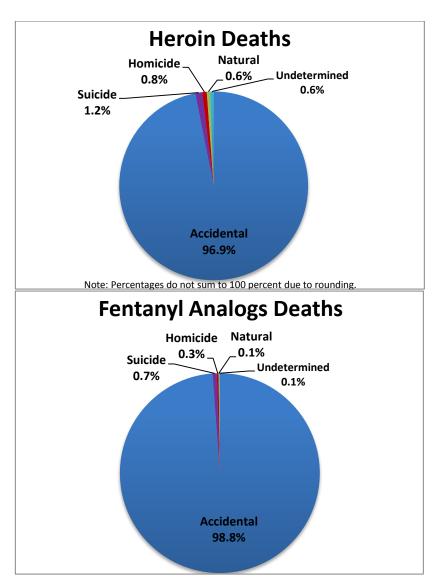




Manner of Death for Cases Reported

(Accidental, Homicide, Natural, Suicide, or Undetermined)





Glossary

4-ANPP (despropionyl fentanyl) – A precursor chemical used in the manufacture of illicit fentanyl. 4-ANPP is also a metabolite of illicit fentanyl and fentanyl-related analogs.

Amphetamines – A group of synthetic psychoactive drugs called central nervous system (CNS) stimulants. The collective group of amphetamines includes amphetamine, dextroamphetamine, and methamphetamine. Methamphetamine is also known as "meth," "crank," "speed," and "tina." Methamphetamine is metabolized to amphetamine, and thus, occurrences of amphetamine may represent methamphetamine ingestion rather than amphetamine ingestion.

Benzodiazepines – A family of sedative-hypnotic drugs indicated for the treatment of stress, anxiety, seizures, and alcohol withdrawal.

Benzodiazepines are often referred to as "minor tranquilizers." Xanax (alprazolam) and Valium (diazepam) are the most commonly prescribed drugs in this drug class. Many benzodiazepines are interconverted to one another, making occurrences of these drugs difficult to interpret. Exceptions include alprazolam, clonazepam, lorazepam, and midazolam.

Buprenorphine – A semi-synthetic opioid known as Buprenex, Suboxone, and Subutex indicated for the treatment of opioid addiction and moderate to severe pain.

Cannabinoids – A series of compounds found in the marijuana plant, the most psychoactive of which is THC, a strong, illicit hallucinogen. Street names for this drug are often associated with a geographic area from which it came but also include generic names like "ganja," "MJ," "ragweed," "reefer," and "grass."

Carisoprodol – Muscle relaxant indicated for the treatment of pain, muscle spasms, and limited mobility. It is often abused in conjunction with analgesics for enhanced euphoric effect. It is marketed as Soma.

Cathinones – A family of drugs containing one or more synthetic chemicals related to cathinone, an amphetamine-like stimulant found naturally in the Khat plant. They are 'cousins' of the amphetamine family of drugs, which includes amphetamine, methamphetamine, and MDMA (ecstasy). It often goes by the street name of "Molly."

Cocaine – An illicit stimulant. Powdered cocaine goes by many street names including "C," "blow," "snow," and "nose candy," while freebase cocaine is mostly commonly known as "crack."

Ethanol – Ethyl alcohol.

Glossary (Continued)

Fentanyl – Synthetic opioid analgesic supplied in transdermal patches and also available for oral, nasal, intravenous, and spinal administration. Fentanyl is also produced illicitly and currently many fentanyl occurrences represent the ingestion of illicit fentanyl rather than pharmaceutically manufactured fentanyl.

Fentanyl Analog – A synthetic opioid structurally similar to fentanyl. Many analogs of fentanyl are pharmacologically more potent than fentanyl. Carfentanil is an analog of fentanyl approved for veterinary use only.

Flunitrazepam (Rohypnol) – Commonly referred to as a "date rape" drug. It is a sedative-hypnotic drug in the benzodiazepine class. It often goes by the street name "roofies."

Gamma-Hydroxybutyric Acid (GHB) – A depressant, also known as a "date rape" drug. GHB often goes by the street name "easy lay," "scoop," "liquid X," "Georgia home boy," and "grievous bodily harm."

Hallucinogenic Phenethylamines/Piperazines – Includes such drugs as MDMA (Ecstasy, a hallucinogen), MDA (a psychedelic), MDEA (a psychedelic hallucinogenic), and piperazine derivatives. Ecstasy has multiple street names including "E," "XTC," "love drug," and "clarity." MDMA is often also known by a large variety of embossed logos on the pills such as "Mitsubishis" and "Killer Bees."

Hallucinogenic Tryptamines – Natural tryptamines are commonly available in preparations of dried or brewed mushrooms, while tryptamine derivatives are sold in capsule, tablet, powder, or liquid forms. Street names include "Foxy-Methoxy," "alpha-O," and "5-MEO."

Halogenated Inhalants – Includes, but are not limited to, halogenated hydrocarbons, such as Freon, and similar halogenated substances typically used illicitly as inhalants.

Heroin – An illicit narcotic derivative. It is a semi-synthetic product of opium. Heroin also has multiple street names including "H," "hombre," and "smack."

Hydrocarbon Inhalants – Includes toluene, benzene, components of gasoline, and other similar hydrocarbons typically used illicitly as inhalants.

Hydrocodone – A narcotic analgesic (pain killer). Vicodin and Lortab are two common drugs containing hydrocodone.

Hydromorphone – A narcotic analgesic (pain killer) used to treat moderate to severe pain. Marketed under the trade name Dilaudid, it is two to eight times more potent than morphine. Commonly used by abusers as a substitute for heroin.

Ketamine – An animal tranquilizer and a chemical relative of PCP. Street names for this drug include "special K," "vitamin K," and "cat valium."

Glossary (Continued)

Meperidine – A synthetic narcotic analgesic (pain killer) sold under the trade name Demerol. It is used for pre-anesthesia and the relief of moderate to severe pain.

Methadone – A synthetic narcotic analgesic (pain killer) commonly associated with heroin detoxification and maintenance programs and is also prescribed to treat severe pain. It has been increasingly prescribed in place of oxycodone for pain management. Dolophine is one form of methadone.

Morphine – A narcotic analgesic (pain killer) used to treat moderate to severe pain. MS (Morphine Sulfate), Kadian, and MS-Contin are the tablet forms; Roxanol is the liquid form. Heroin is metabolized to morphine, and thus, occurrences of morphine may represent heroin ingestion rather than morphine ingestion.

Nitrous Oxide (N2O) – Also known as "laughing gas," is an inhalant (gas) that produces light anesthesia and analgesia. "Whippets" are a common form of nitrous oxide.

Oxycodone – A narcotic analgesic (pain killer). OxyContin is one form of this drug and goes by the street name "OC." Percocet, Percodan, Roxicet, Tylox, and Roxicodone also contain oxycodone.

Oxymorphone – A narcotic analgesic (pain killer) that is often prescribed as Opana, Numorphan, and Numorphone.

Phencyclidine (PCP) – An illicit, dissociative anesthetic/hallucinogen. Common street names for this drug include "angel dust," "ace," "DOA," and "wack."

PCP Analog – A drug structurally related to phencyclidine.

Sympathomimetic Amines – A group of stimulants including phentermine (an appetite suppressant) and other sympathomimetic amines not tracked elsewhere in this report.

Synthetic Cannabinoids – Synthetic cannabinoids are manmade chemicals that are applied (often sprayed) onto plant material to mimic the effect of delta-9-tetrahydrocannabinol (THC), the psychoactive ingredient in the naturally grown marijuana plant (cannabis sativa). Synthetic cannabinoids, commonly known as "synthetic marijuana," "Spice," or "K2," are often sold in retail outlets as "herbal incense" or "potpourri" and are labeled "not for human consumption."

Tramadol – A synthetic narcotic analgesic sold under the trade name Ultram and Ultracet. Indications include the treatment of moderate to severe pain. It is a chemical analogue to codeine. Not currently a scheduled drug.

Glossary (Continued)

U-47700 – A synthetic opioid with a white or light-pink chalky appearance that is found in powder or tablet form. Common street names for this drug include "pink," "pinky," or "U4."

Zolpidem – A prescription medication used for the short-term treatment of insomnia; it is commonly known as Ambien.