

Drugs Identified in Deceased Persons by Florida Medical Examiners



2019 Annual Report

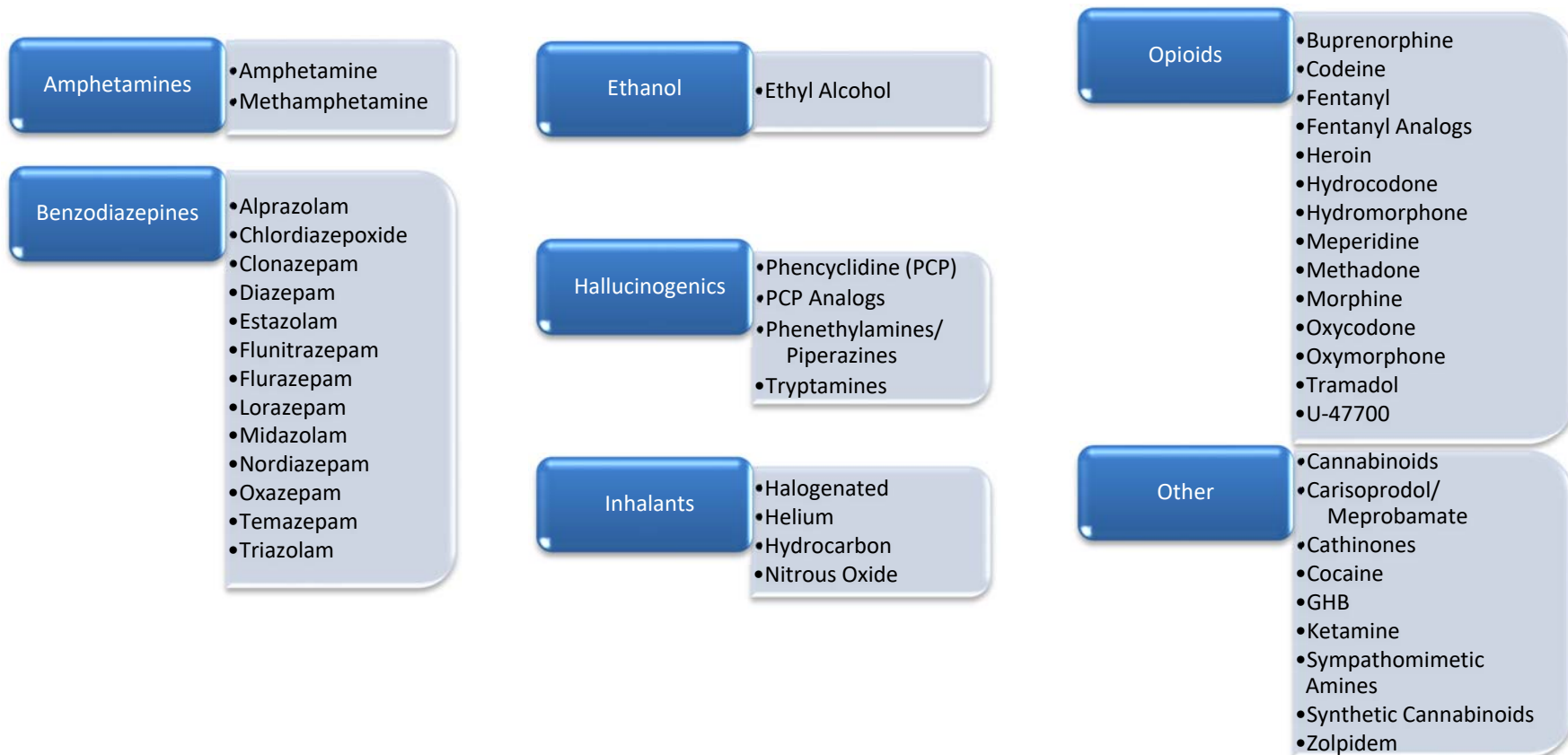
Data Collection

The State of Florida's Bureau of Vital Statistics reported 209,729 deaths in Florida during 2019. Of the 28,853 deaths investigated by Florida's medical examiners, toxicology results determined that the drugs listed below were present at the time of death in 12,574 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 12,574 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 2018 calendar year data unless otherwise noted.

- ✓ Total drug-related deaths increased by 4 percent (494 more).
- ✓ 6,128 opioid-related deaths were reported, which is a 10 percent increase (552 more). The opioids were identified as either the cause of death or merely present in the decedent.
- ✓ 4,294 opioid-caused deaths were reported, which is a 15 percent increase (567 more).
- ✓ 7,142 (7 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.
- ✓ 4,317 (17 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, fentanyl analogs and U-47700) continued to be found more often than illicit drugs, both as the cause of death and present at death. Prescription drugs account for 55.7 percent of all drug occurrences in this report when ethyl alcohol is excluded. Fentanyl is a prescription drug that is also produced illicitly, and currently many fentanyl occurrences represent the ingestion of illicit fentanyl rather than pharmaceutically manufactured fentanyl.
- ✓ The most frequently occurring drugs found in decedents were ethyl alcohol (5,385), benzodiazepines (4,209, including 1,523 alprazolam occurrences), fentanyl (3,655), cocaine (2,962), cannabinoids (2,710), morphine (1,855), amphetamine (1,425), methamphetamine (1,419), fentanyl analogs (1,418) and oxycodone (1,181). 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 fentanyl (3,244), cocaine (1,843), benzodiazepines (1,074, including 614 alprazolam deaths), ethyl alcohol (989), morphine (984), fentanyl analogs (922), methamphetamine (896) and heroin (809). Fentanyl (89 percent), heroin (85 percent), fentanyl analogs (65 percent), methamphetamine (63 percent), cocaine (62 percent), methadone (55 percent) and morphine (53 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 1.5 percent (14 more) and deaths caused by heroin increased by 0.4 percent (3 more).
- ✓ Occurrences of fentanyl increased by 35 percent (952 more) and deaths caused by fentanyl increased by 38 percent (896 more).
- ✓ Occurrences of fentanyl analogs increased by 35 percent (366 more) and deaths caused by fentanyl analogs increased by 5.5 percent (48 more).
- ✓ Occurrences of methadone decreased by 21 percent (83 less) and deaths caused by methadone decreased by 24 percent (54 less).
- ✓ Occurrences of hydrocodone decreased by 6 percent (35 less) and deaths caused by hydrocodone decreased by 2 percent (3 less).

Highlights (continued)

- ✓ Occurrences of oxycodone remained the same with 1, 181 and deaths caused by oxycodone decreased by 5 percent (25 less).
- ✓ Occurrences of buprenorphine increased by 18 percent (32 more) and deaths caused by buprenorphine increased by 46 percent (16 more).
- ✓ Occurrences of cocaine increased by 4 percent (106 more) and deaths caused by cocaine increased by 12 percent (199 more).
- ✓ Alprazolam (Xanax), nordiazepam and clonazepam dominate the category of benzodiazepines. Occurrences of alprazolam decreased by 8 percent, nordiazepam decreased by 4 percent, and clonazepam decreased by 4 percent. Alprazolam, nordiazepam and clonazepam 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 increased by 34 percent (363 more) and deaths caused by methamphetamine increased by 45 percent (277 more). Occurrences of amphetamine increased by 29 percent (322 more) and deaths caused by amphetamine increased by 38 percent (132 more). In the body, methamphetamine is metabolized to amphetamine, thus many occurrences of amphetamine likely represent illicit methamphetamine ingestion rather than pharmaceutical amphetamine use.
- ✓ Occurrences of cathinones decreased by 35 percent (84 less) and deaths caused by cathinones decreased by 48 percent (73 less). The majority of the cathinones reported were eutylone.
- ✓ Occurrences of synthetic cannabinoids decreased by 47 percent (45 less) and deaths caused by synthetic cannabinoids decreased by 59 percent (51 less). The majority of the synthetic cannabinoids reported were 5-fluoro-MDMB-Pica.
- ✓ Reporting of mitragynine was not specifically requested by the Commission in 2019; however, many districts voluntarily reported deaths with mitragynine. A total of 82 occurrences of mitragynine were reported for January – December 2019. Due to reporting deadlines, reporting of mitragynine by all districts will begin with the 2020 Drugs Identified in Deceased Persons reports.

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Coverage Map

Florida Medical Examiner Districts

District 1

Escambia
Okaloosa
Santa Rosa
Walton

District 2

Franklin
Gadsden
Jefferson
Leon
Liberty
Taylor
Wakulla

District 3 *Covered by

Columbia *4
Dixie *8
Hamilton *4
Lafayette *2
Madison *2
Suwannee *2

District 4

Clay
Duval
Nassau

District 5

Citrus
Hernando
Lake
Marion
Sumter

District 6

Pasco
Pinellas

District 7

Volusia

District 8

Alachua
Baker
Bradford
Gilchrist
Levy
Union

District 9

Orange

District 10

Hardee
Highlands
Polk

District 11

Miami-Dade

District 12

DeSoto
Manatee
Sarasota

District 13

Hillsborough

District 14

Bay
Calhoun
Gulf
Holmes
Jackson
Washington

District 15

Palm Beach

District 16

Monroe

District 17

Broward

District 18

Brevard

District 19

Indian River
Martin
Okeechobee
St. Lucie

District 20

Collier

District 21

Glades
Hendry
Lee

District 22

Charlotte

District 23

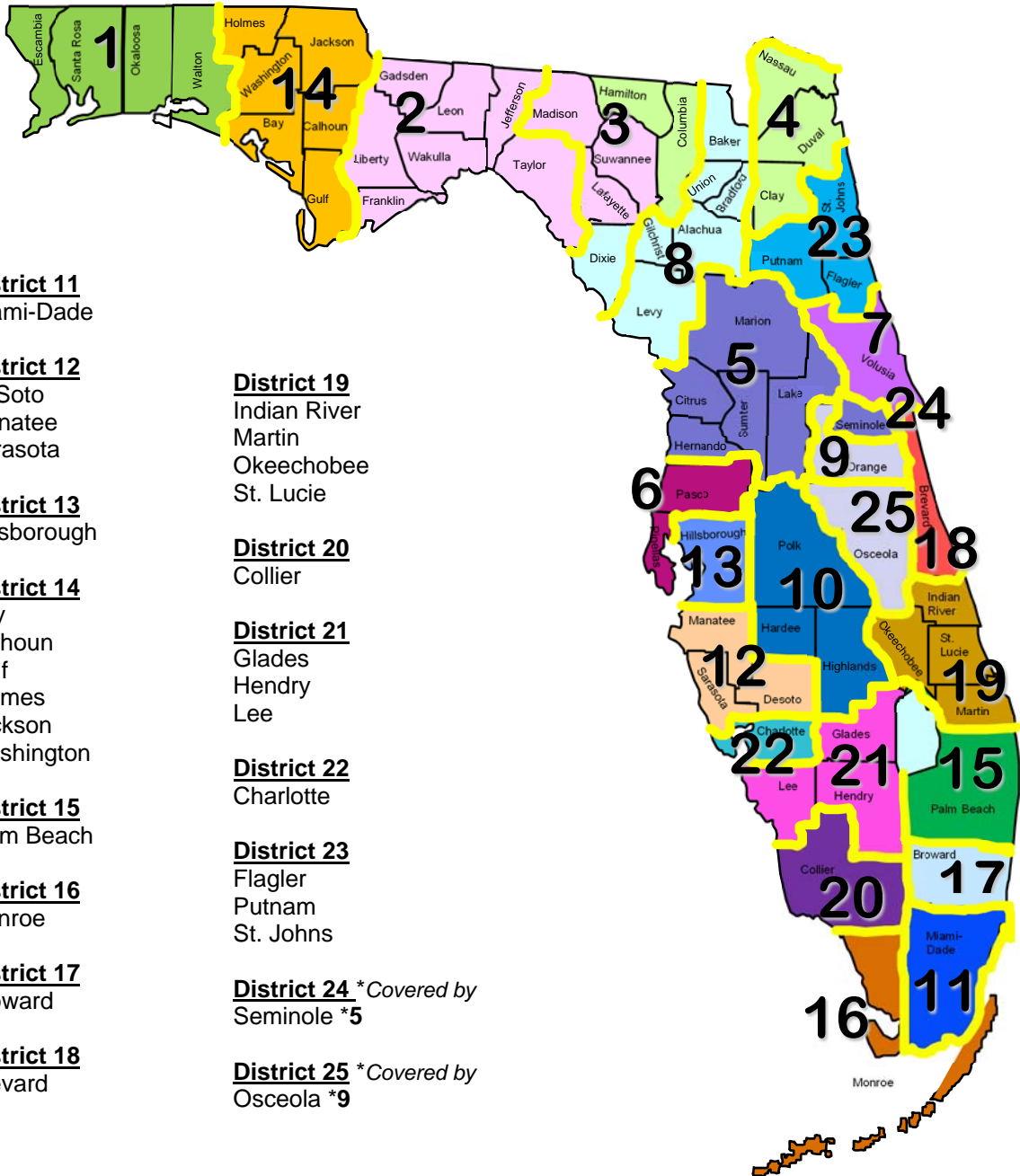
Flagler
Putnam
St. Johns

District 24 *Covered by

Seminole *5

District 25 *Covered by

Osceola *9



Summary of Drug Occurrences in Decedents 2019

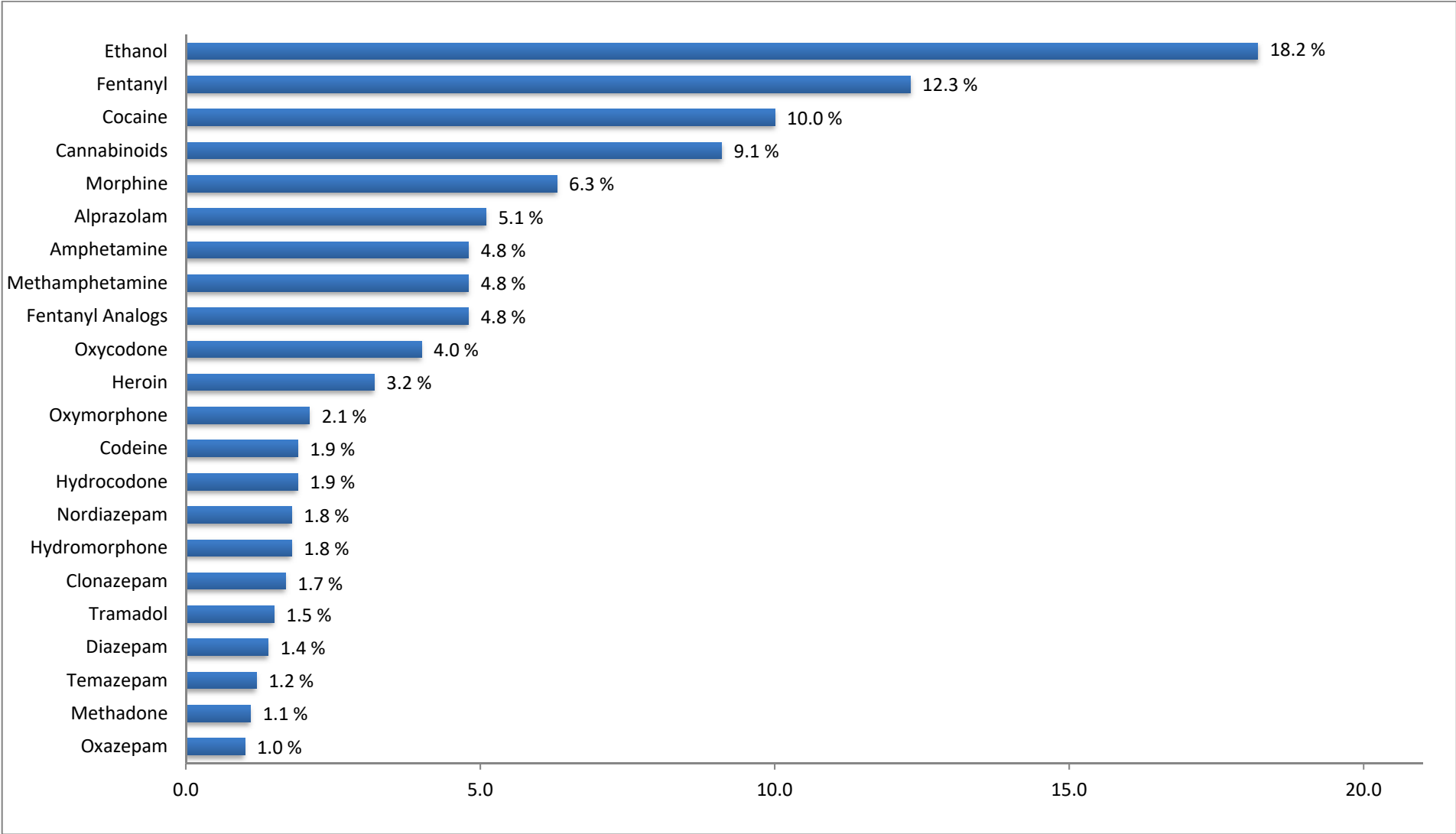
	DRUG PRESENT IN BODY	CAUSE	PRESENT	TOTAL OCCURRENCES
Amphetamines	Amphetamine	483	942	1,425
	Methamphetamine	896	523	1,419
Benzodiazepines	Alprazolam	614	909	1,523
	Chlordiazepoxide	20	82	102
	Clonazepam	113	384	497
	Diazepam	128	300	428
	Estazolam	2	4	6
	Flunitrazepam	1	0	1
	Flurazepam	1	1	2
	Lorazepam	34	212	246
	Midazolam	8	208	216
	Nordiazepam	84	449	533
	Oxazepam	23	276	299
	Temazepam	46	308	354
	Triazolam	0	2	2
	Ethanol	989	4,396	5,385
Hallucinogenics	Phencyclidine (PCP)	0	0	0
	PCP Analogs	0	0	0
	Phenethylamines/Piperazines	38	39	77
	Tryptamines	1	4	5

Summary of Drug Occurrences in Decedents (continued)

	DRUG PRESENT IN BODY	CAUSE	PRESENT	TOTAL OCCURRENCES
Inhalants	Halogenated	26	3	29
	Helium	11	0	11
	Hydrocarbon	2	1	3
	Nitrous Oxide	2	0	2
Opioids	Buprenorphine	51	156	207
	Codeine	72	502	574
	Fentanyl	3,244	411	3,655
	Fentanyl Analogs	922	496	1,418
	Heroin	809	145	954
	Hydrocodone	165	393	558
	Hydromorphone	133	392	525
	Meperidine	1	11	12
	Methadone	174	144	318
	Morphine	984	871	1,855
	Oxycodone	510	671	1,181
	Oxymorphone	121	501	622
	Tramadol	102	345	447
	U-47700	2	2	4
Other	Cannabinoids	49	2,661	2,710
	Carisoprodol/Meprobamate	17	45	62
	Cathinones	79	80	159
	Cocaine	1,843	1,119	2,962
	GHB	5	2	7
	Ketamine	14	143	157
	Sympathomimetic Amines	4	29	33
	Synthetic Cannabinoids	35	15	50
	Zolpidem	37	121	158

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 2019



¹Drugs not included individually constituted less than one percent of occurrences.

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

Comparison of Drug Occurrences in Decedents 2018 to 2019

DRUG PRESENT IN BODY		2018	2019	PERCENTAGE CHANGE
Amphetamines	Amphetamine	1,103	1,425	29.2%
	Methamphetamine	1,056	1,419	34.4%
Benzodiazepines	Alprazolam	1,654	1,523	-7.9%
	Chlordiazepoxide	88	102	15.9%
	Clonazepam	518	497	-4.1%
	Diazepam	541	428	-20.9%
	Estazolam	9	6	*
	Flunitrazepam	4	1	*
	Flurazepam	2	2	*
	Lorazepam	273	246	-9.9%
	Midazolam	194	216	11.3%
	Nordiazepam	556	533	-4.1%
	Oxazepam	350	299	-14.6%
	Temazepam	427	354	-17.1%
	Triazolam	8	2	*
Ethanol		5,140	5,385	4.8%
Hallucinogenics	Phencyclidine (PCP)	0	0	*
	PCP Analogs	3	0	*
	Phenethylamines/Piperazines	46	77	67.4%
	Tryptamines	6	5	*

**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.

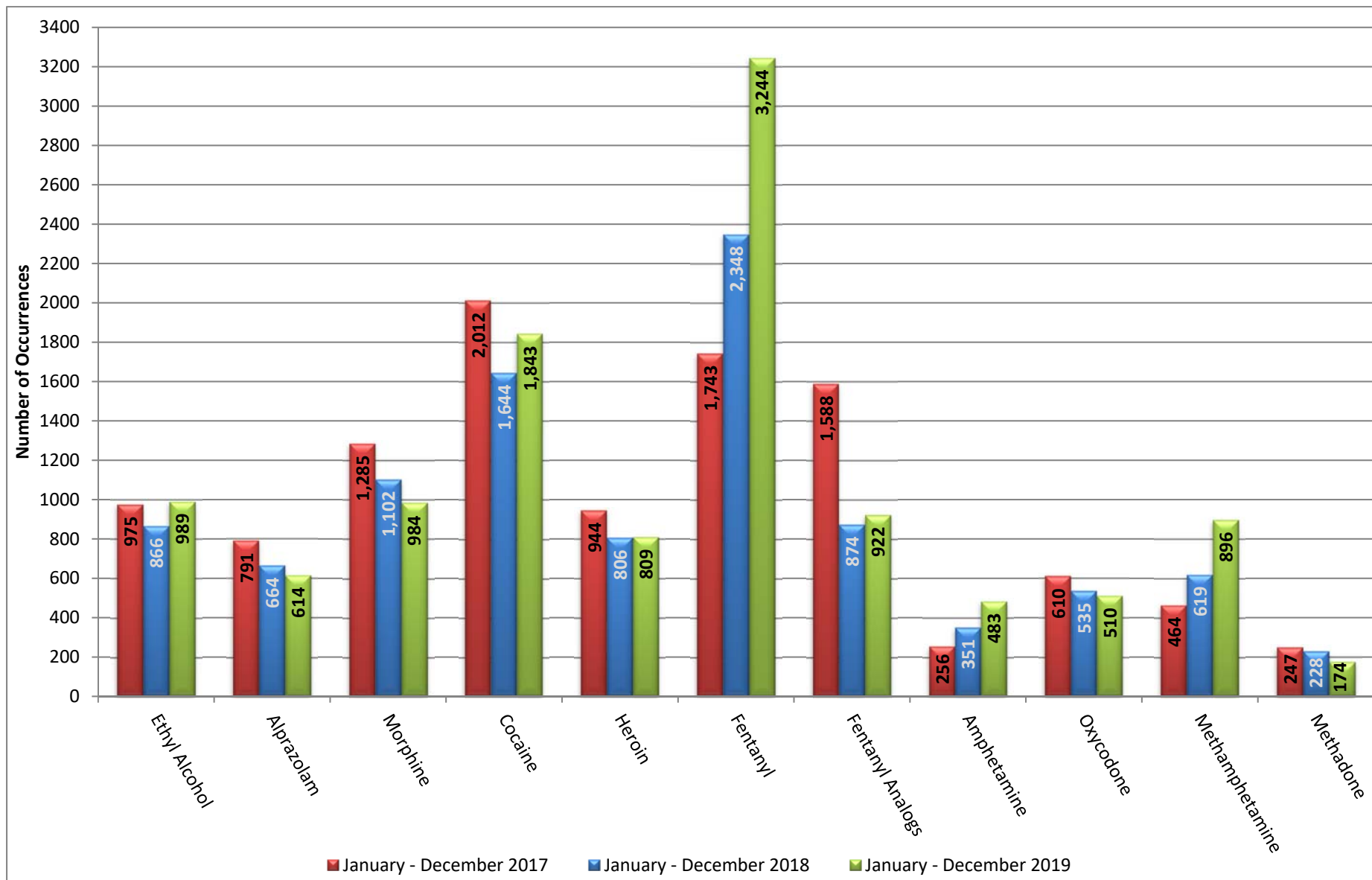
Comparison of Drug Occurrences in Decedents (continued)

DRUG PRESENT IN BODY		2018	2019	PERCENTAGE CHANGE
Inhalants	Halogenated	44	29	-34.1%
	Helium	6	11	*
	Hydrocarbon	4	3	*
	Nitrous Oxide	0	2	*
Opioids	Buprenorphine	175	207	18.3%
	Codeine	574	574	0%
	Fentanyl	2,703	3,655	35.2%
	Fentanyl Analogs	1,052	1,418	34.8%
	Heroin	940	954	1.5%
	Hydrocodone	593	558	-5.9%
	Hydromorphone	582	525	-9.8%
	Meperidine	10	12	*
	Methadone	401	318	-20.7%
	Morphine	1,863	1,855	-0.4%
	Oxycodone	1,181	1,181	0%
	Oxymorphone	543	622	14.5%
	Tramadol	541	447	-17.4%
	U-47700	35	4	-88.6%
Other	Cannabinoids	2,590	2,710	4.6%
	Carisoprodol/Meprobamate	79	62	-21.5%
	Cathinones	243	159	-34.6%
	Cocaine	2,856	2,962	3.7%
	GHB	3	7	*
	Ketamine	128	157	22.7%
	Sympathomimetic Amines	41	33	-19.5%
	Synthetic Cannabinoids	95	50	-47.4%
	Zolpidem	181	158	-12.7%

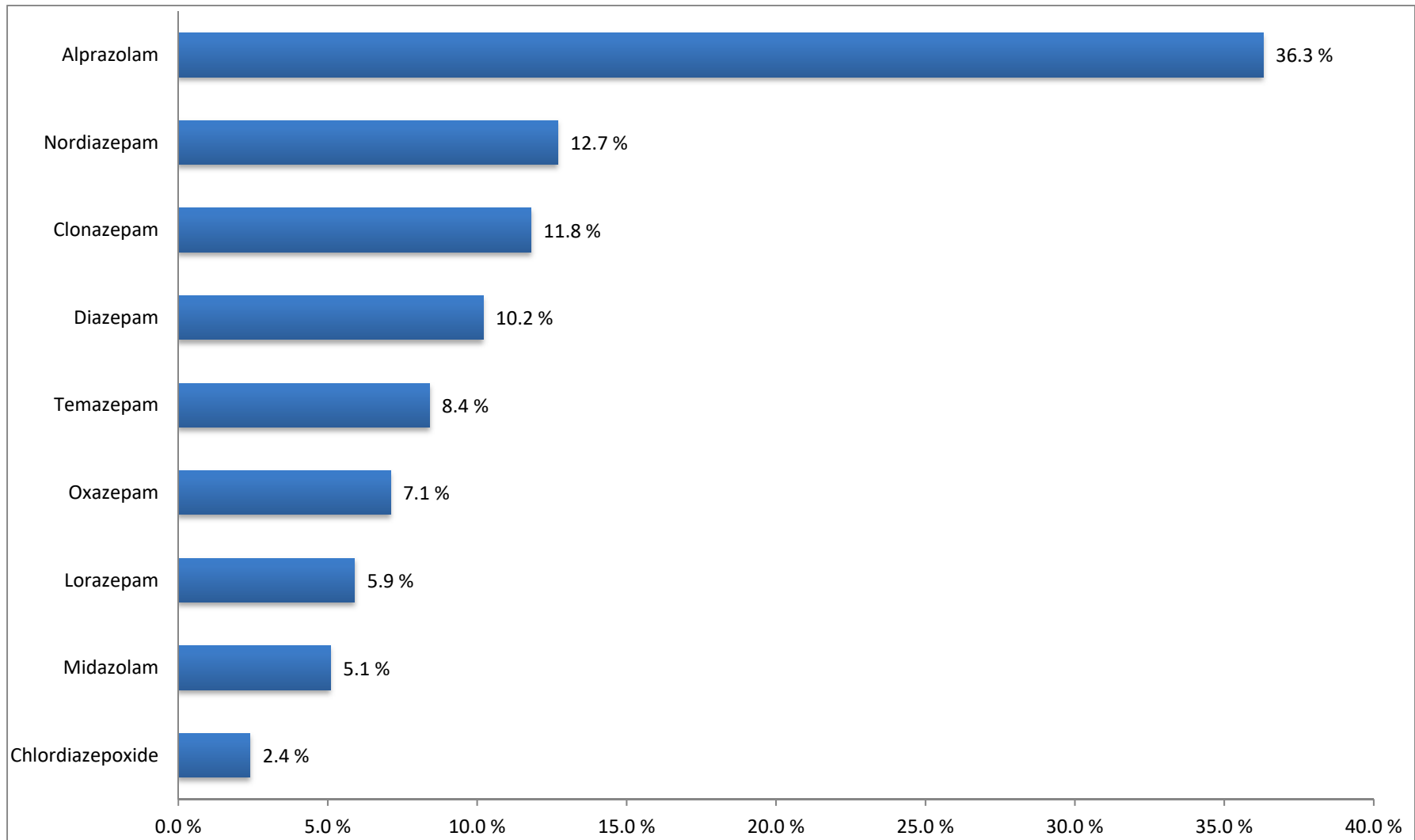
**Due to the small number of occurrences, percent changes were not calculated.*

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.

Comparison of Drug Caused Deaths 2017 to 2019



Frequency of Occurrence of Benzodiazepines January – December 2019



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

January – December 2019

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 Alprazolam		
Total	Cause	Present
43	24	19
8	6	2
5	1	4
105	35	70
71	28	43
155	97	58
47	16	31
6	1	5
70	19	51
48	13	35
188	62	126
64	34	30
79	45	34
41	16	25
205	56	149
8	5	3
140	94	46
38	18	20
35	5	30
40	9	31
48	7	41
17	2	15
21	10	11
26	8	18
15	3	12
1,523	614	909

Deaths with Alprazolam Only		
Total	Cause	Present
5	1	4
0	0	0
0	0	0
2	0	2
7	1	6
3	1	2
3	0	3
0	0	0
9	1	8
8	1	7
12	0	12
9	2	7
5	1	4
2	0	2
14	0	14
3	0	3
7	1	6
4	1	3
3	1	2
3	0	3
2	0	2
4	0	4
0	0	0
2	0	2
0	0	0
107	11	96

Deaths with Alprazolam in Combination with Other Drugs		
Total	Cause	Present
38	23	15
8	6	2
5	1	4
103	35	68
64	27	37
152	96	56
44	16	28
6	1	5
61	18	43
40	12	28
176	62	114
55	32	23
74	44	30
39	16	23
191	56	135
5	5	0
133	93	40
34	17	17
32	4	28
37	9	28
46	7	39
13	2	11
21	10	11
24	8	16
15	3	12
1,416	603	813

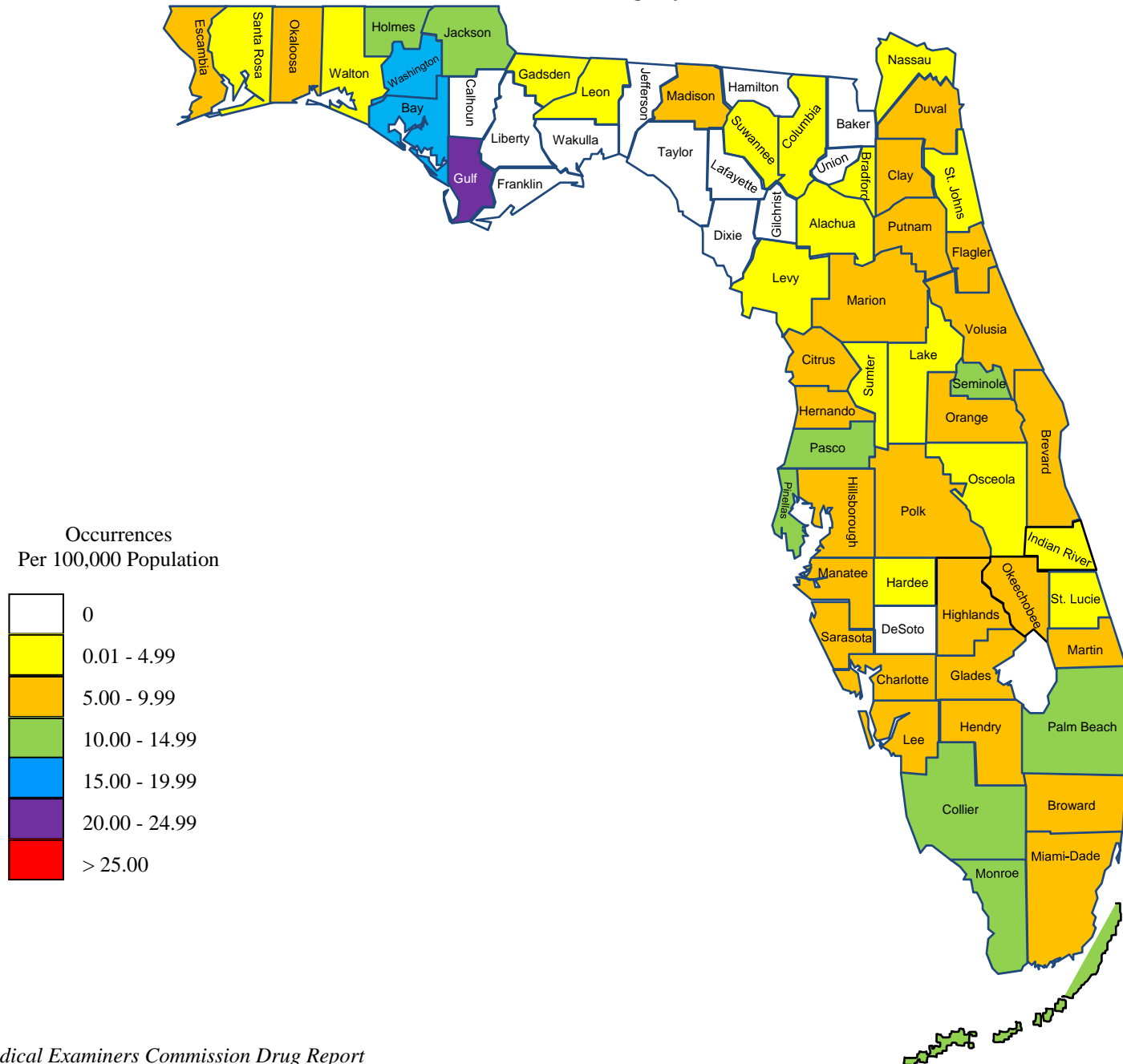
Alprazolam Deaths by Age January – December 2019

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	43
2	Tallahassee	8
3	Live Oak	5
4	Jacksonville	105
5	Leesburg	71
6	St. Petersburg	155
7	Daytona Beach	47
8	Gainesville	6
9	Orlando	70
10	Lakeland	48
11	Miami	188
12	Sarasota	64
13	Tampa	79
14	Panama City	41
15	West Palm Beach	205
16	Florida Keys	8
17	Ft. Lauderdale	140
18	Melbourne	38
19	Ft. Pierce	35
20	Naples	40
21	Ft. Myers	48
22	Port Charlotte	17
23	St. Augustine	21
24	Sanford	26
25	Kissimmee	15
Statewide Totals		1,523

Alprazolam Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
24	0	2	3	12	7
6	0	1	1	3	1
1	0	0	0	0	1
35	0	2	7	15	11
28	0	2	5	11	10
97	0	8	12	43	34
16	0	3	2	8	3
1	0	0	0	0	1
19	0	0	1	11	7
13	0	1	2	6	4
62	0	15	16	23	8
34	0	2	6	11	15
45	0	2	15	15	13
16	0	2	4	9	1
56	0	7	15	18	16
5	0	0	3	1	1
94	0	12	22	33	27
18	0	1	3	8	6
5	0	0	0	0	5
9	0	2	2	3	2
7	0	1	0	2	4
2	0	0	0	1	1
10	0	1	0	5	4
8	0	2	3	0	3
3	0	0	0	2	1
614	0	66	122	240	186

Alprazolam Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
19	0	2	1	7	9
2	0	0	1	0	1
4	0	0	0	3	1
70	1	4	15	26	24
43	1	3	4	17	18
58	0	3	10	21	24
31	0	2	7	14	8
5	0	0	0	5	0
51	0	5	12	12	22
35	0	2	6	6	21
126	2	21	29	28	46
30	0	2	3	5	20
34	0	2	7	8	17
25	0	0	4	7	14
149	0	19	34	52	44
3	0	0	0	1	2
46	0	5	4	15	22
20	0	0	5	5	10
30	0	3	1	10	16
31	0	0	7	10	14
41	0	4	6	10	21
15	0	0	5	3	7
11	0	1	2	4	4
18	0	0	7	6	5
12	0	0	2	1	9
909	4	78	172	276	379

Alprazolam Deaths by County 2019



Diazepam Deaths

January – December 2019

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
10	5	5
4	2	2
5	2	3
31	8	23
18	7	11
66	35	31
15	5	10
7	3	4
22	1	21
16	2	14
49	7	42
28	13	15
17	6	11
9	2	7
34	6	28
2	1	1
24	12	12
11	3	8
19	0	19
9	3	6
16	2	14
1	0	1
4	1	3
6	2	4
5	0	5
428	128	300

Deaths with Diazepam Only		
Total	Cause	Present
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	0	0
0	0	0
1	0	1
0	0	0
4	0	4
0	0	0
0	0	0
0	0	0
0	0	0
1	0	1
0	0	0
0	0	0
0	0	0
0	0	0
1	0	1
0	0	0
0	0	0
1	0	1
0	0	0
8	0	8

Deaths with Diazepam in Combination with Other Drugs		
Total	Cause	Present
10	5	5
4	2	2
5	2	3
31	8	23
18	7	11
66	35	31
15	5	10
7	3	4
21	1	20
16	2	14
45	7	38
28	13	15
17	6	11
9	2	7
33	6	27
2	1	1
24	12	12
11	3	8
19	0	19
9	3	6
15	2	13
1	0	1
4	1	3
5	2	3
5	0	5
420	128	292

Diazepam Deaths by Age

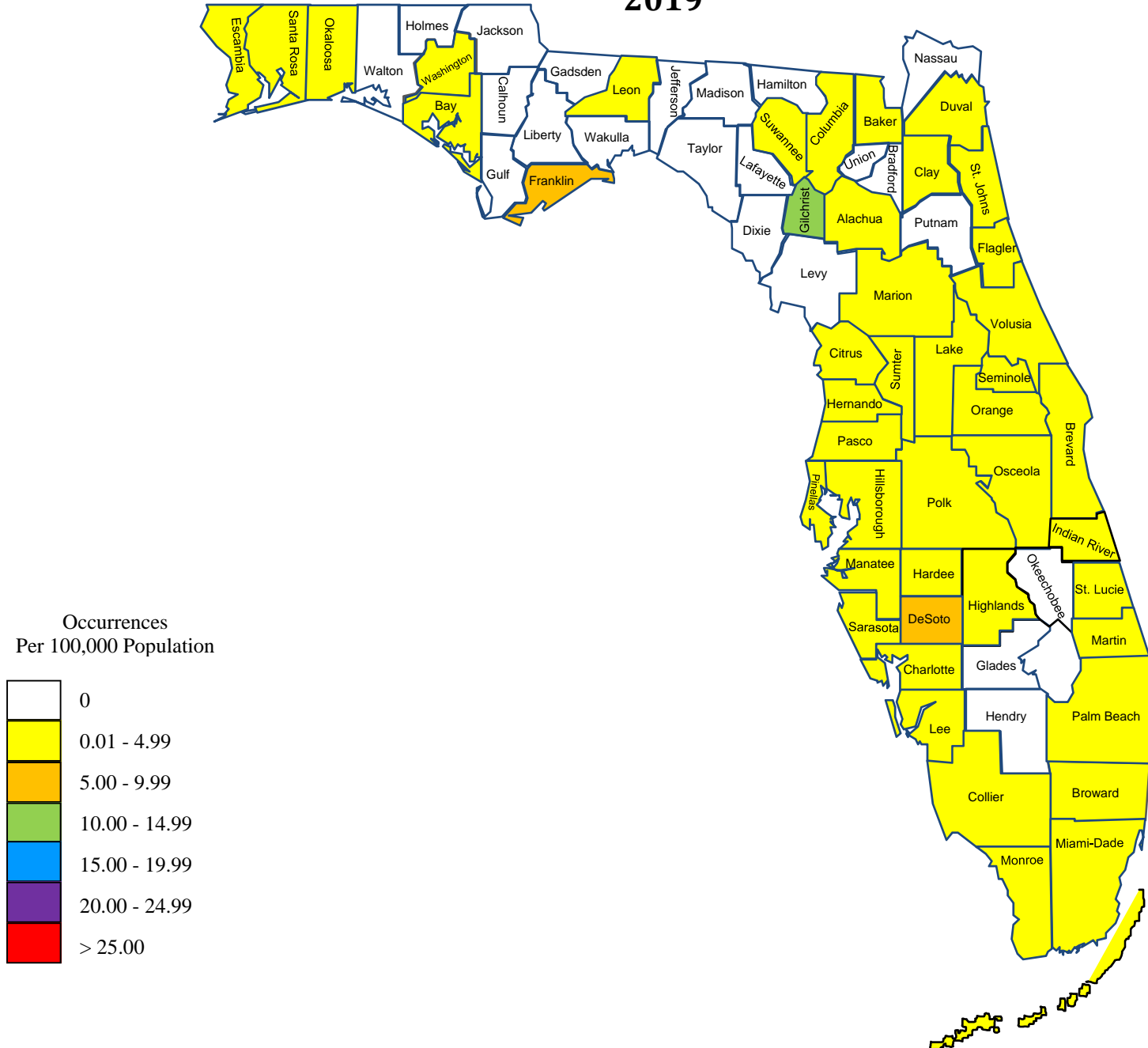
January – December 2019

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	10
2	Tallahassee	4
3	Live Oak	5
4	Jacksonville	31
5	Leesburg	18
6	St. Petersburg	66
7	Daytona Beach	15
8	Gainesville	7
9	Orlando	22
10	Lakeland	16
11	Miami	49
12	Sarasota	28
13	Tampa	17
14	Panama City	9
15	West Palm Beach	34
16	Florida Keys	2
17	Ft. Lauderdale	24
18	Melbourne	11
19	Ft. Pierce	19
20	Naples	9
21	Ft. Myers	16
22	Port Charlotte	1
23	St. Augustine	4
24	Sanford	6
25	Kissimmee	5
Statewide Totals		428

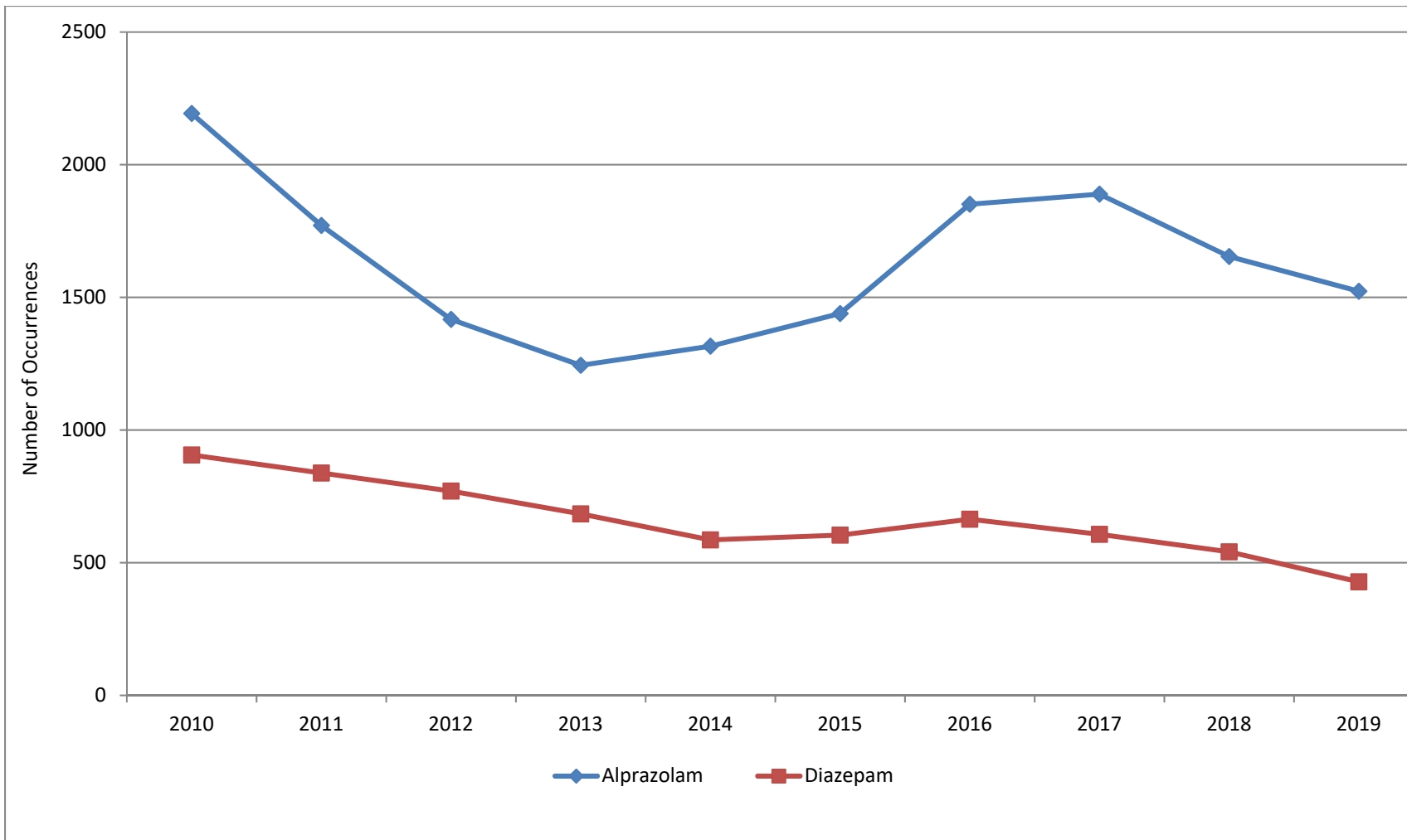
Diazepam Caused Death						
Age of Decedent						
Total	< 18	18-25	26-34	35-50	>50	
5	0	0	3	2	0	
2	0	0	1	1	0	
2	0	0	0	2	0	
8	0	1	0	3	4	
7	0	1	2	1	3	
35	0	0	7	10	18	
5	0	1	0	1	3	
3	0	0	0	2	1	
1	0	0	0	0	1	
2	0	0	0	1	1	
7	0	1	0	2	4	
13	0	2	1	2	8	
6	0	0	1	2	3	
2	0	0	0	2	0	
6	0	0	1	3	2	
1	0	0	0	0	1	
12	0	0	3	1	8	
3	0	0	1	1	1	
0	0	0	0	0	0	
3	0	0	0	1	2	
2	0	0	0	1	1	
0	0	0	0	0	0	
1	0	0	0	0	1	
2	0	0	1	1	0	
0	0	0	0	0	0	
128	0	6	21	39	62	

Diazepam Present at Death						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
5	0	0	0	1	4	
2	0	0	0	0	2	
3	0	0	0	0	3	
23	0	1	5	6	11	
11	0	0	0	1	10	
31	0	0	2	11	18	
10	0	0	0	2	8	
4	0	0	0	2	2	
21	1	1	3	8	8	
14	0	0	0	3	11	
42	0	2	5	3	32	
15	0	0	0	4	11	
11	0	1	1	2	7	
7	0	0	1	2	4	
28	0	3	1	4	20	
1	0	0	1	0	0	
12	0	0	0	4	8	
8	0	0	1	2	5	
19	0	0	1	7	11	
6	0	0	1	3	2	
14	0	0	0	6	8	
1	0	0	0	1	0	
3	0	1	1	0	1	
4	0	0	1	2	1	
5	0	0	0	0	5	
300	1	9	24	74	192	

Diazepam Deaths by County 2019



Historical Overview of Alprazolam and Diazepam Occurrences (Present and Cause) 2010 to 2019



Oxycodone Deaths

January – December 2019

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
32	20	12
20	6	14
10	3	7
88	20	68
69	34	35
141	95	46
27	12	15
17	6	11
51	16	35
30	17	13
113	36	77
59	34	25
80	35	45
30	7	23
120	47	73
6	5	1
64	35	29
72	34	38
35	11	24
25	10	15
48	13	35
9	1	8
11	5	6
13	6	7
11	2	9
1,181	510	671

Deaths with Oxycodone Only		
Total	Cause	Present
2	1	1
3	0	3
0	0	0
4	0	4
2	0	2
4	4	0
2	0	2
5	1	4
8	0	8
5	1	4
5	0	5
6	2	4
5	0	5
1	0	1
8	2	6
1	1	0
8	3	5
9	3	6
5	0	5
0	0	0
1	0	1
1	0	1
1	0	1
0	0	0
1	0	1
87	18	69

Deaths with Oxycodone in Combination with Other Drugs		
Total	Cause	Present
30	19	11
17	6	11
10	3	7
84	20	64
67	34	33
137	91	46
25	12	13
12	5	7
43	16	27
25	16	9
108	36	72
53	32	21
75	35	40
29	7	22
112	45	67
5	4	1
56	32	24
63	31	32
30	11	19
25	10	15
47	13	34
8	1	7
10	5	5
13	6	7
10	2	8
1,094	492	602

Oxycodone Deaths by Age January – December 2019

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	32
2	Tallahassee	20
3	Live Oak	10
4	Jacksonville	88
5	Leesburg	69
6	St. Petersburg	141
7	Daytona Beach	27
8	Gainesville	17
9	Orlando	51
10	Lakeland	30
11	Miami	113
12	Sarasota	59
13	Tampa	80
14	Panama City	30
15	West Palm Beach	120
16	Florida Keys	6
17	Ft. Lauderdale	64
18	Melbourne	72
19	Ft. Pierce	35
20	Naples	25
21	Ft. Myers	48
22	Port Charlotte	9
23	St. Augustine	11
24	Sanford	13
25	Kissimmee	11
Statewide Totals		1,181

Oxycodone Caused Death					
Age of Decedent					
Total	< 18	18-25	26-34	35-50	>50
20	0	2	4	6	8
6	0	0	1	2	3
3	0	0	0	3	0
20	0	2	6	11	1
34	0	2	4	9	19
95	1	5	9	36	44
12	0	0	1	2	9
6	0	1	0	3	2
16	0	0	2	7	7
17	0	1	3	3	10
36	1	8	9	12	6
34	0	0	5	11	18
35	0	2	6	10	17
7	0	0	1	2	4
47	0	3	6	13	25
5	0	0	0	2	3
35	0	2	2	17	14
34	0	1	5	14	14
11	0	0	0	3	8
10	0	0	3	2	5
13	0	0	3	2	8
1	0	0	0	1	0
5	0	0	2	2	1
6	0	0	2	0	4
2	0	0	1	0	1
510	2	29	75	173	231

Oxycodone Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
12	0	0	3	3	6
14	0	0	3	3	8
7	0	1	2	0	4
68	0	4	6	21	37
35	0	0	3	6	26
46	0	1	4	11	30
15	0	0	3	6	6
11	0	0	0	3	8
35	0	1	9	6	19
13	0	0	1	0	12
77	1	7	16	11	42
25	0	0	3	7	15
45	0	1	3	10	31
23	0	0	4	8	11
73	0	7	14	19	33
1	0	0	0	1	0
29	0	1	7	5	16
38	0	4	5	7	22
24	0	1	1	7	15
15	0	0	4	8	3
35	0	0	7	9	19
8	0	0	2	4	2
6	0	0	0	1	5
7	0	0	1	1	5
9	0	0	1	3	5
671	1	28	102	160	380

Hydrocodone Deaths

January – December 2019

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
34	9	25
20	8	12
2	0	2
65	20	45
35	15	20
61	28	33
26	5	21
13	2	11
42	4	38
30	8	22
32	10	22
12	7	5
26	9	17
25	5	20
29	7	22
3	0	3
19	6	13
22	9	13
12	3	9
6	2	4
18	4	14
4	0	4
10	3	7
6	1	5
6	0	6
558	165	393

Deaths with Hydrocodone Only		
Total	Cause	Present
7	0	7
3	0	3
1	0	1
3	0	3
8	1	7
6	0	6
5	0	5
6	1	5
20	0	20
9	3	6
0	0	0
4	0	4
4	0	4
1	0	1
0	0	0
0	0	0
3	0	3
4	0	4
3	0	3
0	0	0
5	2	3
0	0	0
1	0	1
1	0	1
1	0	1
95	7	88

Deaths with Hydrocodone in Combination with Other Drugs		
Total	Cause	Present
27	9	18
17	8	9
1	0	1
62	20	42
27	14	13
55	28	27
21	5	16
7	1	6
22	4	18
21	5	16
32	10	22
8	7	1
22	9	13
24	5	19
29	7	22
3	0	3
16	6	10
18	9	9
9	3	6
6	2	4
13	2	11
4	0	4
9	3	6
5	1	4
5	0	5
463	158	305

Hydrocodone Deaths by Age January – December 2019

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	34
2	Tallahassee	20
3	Live Oak	2
4	Jacksonville	65
5	Leesburg	35
6	St. Petersburg	61
7	Daytona Beach	26
8	Gainesville	13
9	Orlando	42
10	Lakeland	30
11	Miami	32
12	Sarasota	12
13	Tampa	26
14	Panama City	25
15	West Palm Beach	29
16	Florida Keys	3
17	Ft. Lauderdale	19
18	Melbourne	22
19	Ft. Pierce	12
20	Naples	6
21	Ft. Myers	18
22	Port Charlotte	4
23	St. Augustine	10
24	Sanford	6
25	Kissimmee	6
Statewide Totals		558

Hydrocodone Caused Death						
Age of Decedent						
Total	< 18	18-25	26-34	35-50	>50	
9	0	0	0	2	7	
8	0	0	1	1	6	
0	0	0	0	0	0	
20	0	2	3	8	7	
15	0	0	0	4	11	
28	0	2	1	4	21	
5	0	0	0	1	4	
2	0	0	1	0	1	
4	0	0	0	4	0	
8	0	1	0	1	6	
10	0	0	3	3	4	
7	0	0	1	1	5	
9	0	1	0	1	7	
5	0	0	0	3	2	
7	0	0	0	3	4	
0	0	0	0	0	0	
6	0	0	0	0	6	
9	0	0	1	1	7	
3	0	0	0	1	2	
2	0	0	0	1	1	
4	0	0	1	0	3	
0	0	0	0	0	0	
3	0	0	1	2	0	
1	0	0	0	0	1	
0	0	0	0	0	0	
165	0	6	13	41	105	

Hydrocodone Present at Death						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
25	0	1	3	6	15	
12	0	0	1	3	8	
2	0	0	0	0	2	
45	0	2	7	12	24	
20	0	1	0	4	15	
33	0	0	0	4	29	
21	1	0	5	1	14	
11	0	0	1	4	6	
38	0	0	2	7	29	
22	0	0	1	8	13	
22	0	3	3	6	10	
5	0	0	0	1	4	
17	0	0	1	1	15	
20	0	0	1	6	13	
22	0	1	6	7	8	
3	0	0	0	0	3	
13	0	1	2	4	6	
13	0	1	0	2	10	
9	0	0	2	1	6	
4	0	0	1	2	1	
14	0	0	0	3	11	
4	0	0	1	1	2	
7	0	0	2	3	2	
5	0	0	0	1	4	
6	0	0	1	1	4	
393	1	10	40	88	254	

Methadone Deaths

January – December 2019

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
21	14	7
4	4	0
2	1	1
37	23	14
7	5	2
45	29	16
6	3	3
4	3	1
17	6	11
8	7	1
10	3	7
20	13	7
30	16	14
11	3	8
21	6	15
1	1	0
13	10	3
16	6	10
7	2	5
9	5	4
8	5	3
5	1	4
8	5	3
3	1	2
5	2	3
318	174	144

Deaths with Methadone Only		
Total	Cause	Present
4	4	0
1	1	0
0	0	0
6	4	2
1	0	1
3	2	1
0	0	0
1	1	0
2	0	2
1	1	0
1	0	1
5	1	4
7	3	4
1	0	1
2	0	2
0	0	0
3	2	1
2	0	2
0	0	0
0	0	0
1	1	0
0	0	0
1	1	0
0	0	0
2	0	2
44	21	23

Deaths with Methadone in Combination with Other Drugs		
Total	Cause	Present
17	10	7
3	3	0
2	1	1
31	19	12
6	5	1
42	27	15
6	3	3
3	2	1
15	6	9
7	6	1
9	3	6
15	12	3
23	13	10
10	3	7
19	6	13
1	1	0
10	8	2
14	6	8
7	2	5
9	5	4
7	4	3
5	1	4
7	4	3
3	1	2
3	2	1
274	153	121

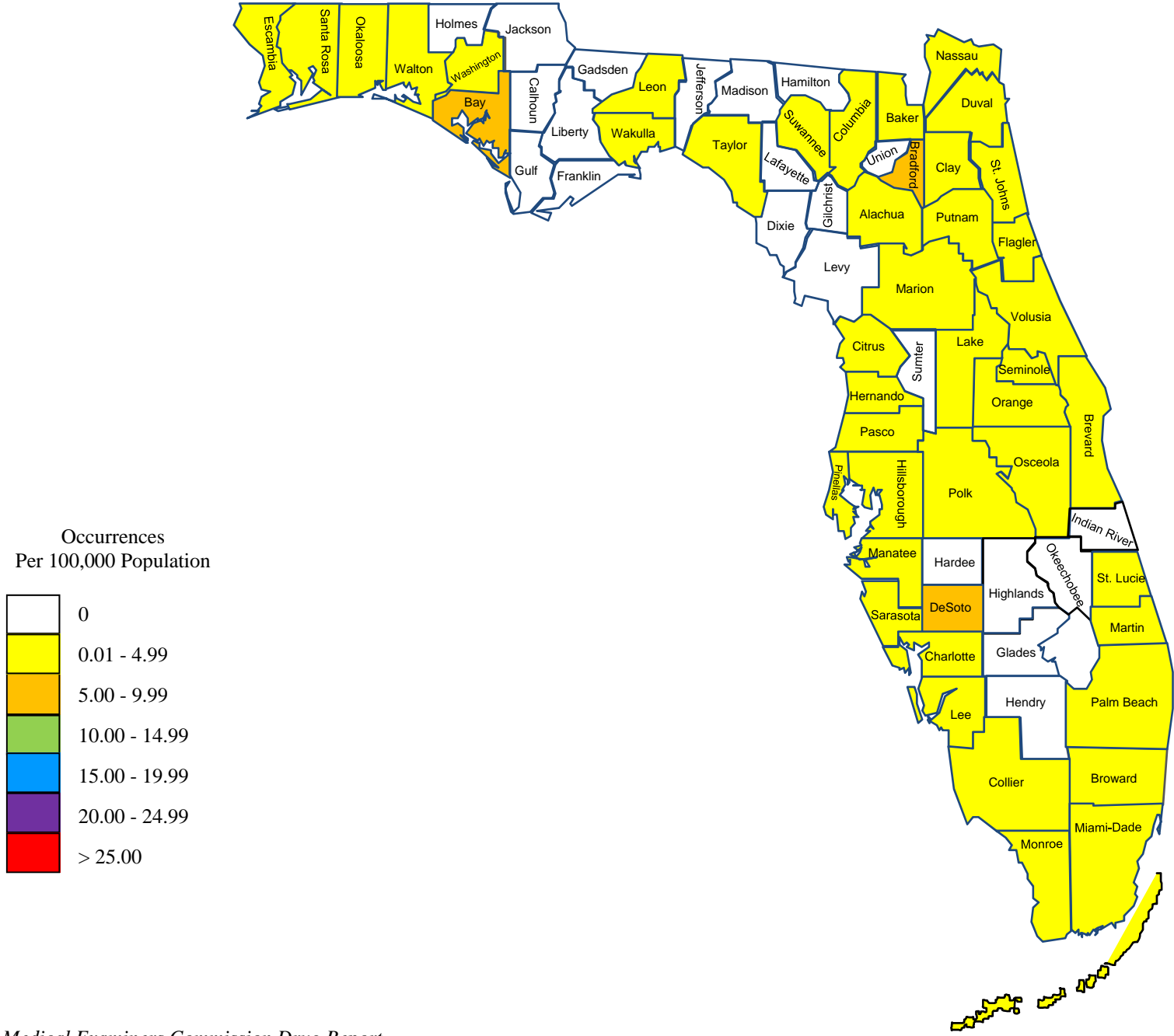
Methadone Deaths by Age January – December 2019

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	21
2	Tallahassee	4
3	Live Oak	2
4	Jacksonville	37
5	Leesburg	7
6	St. Petersburg	45
7	Daytona Beach	6
8	Gainesville	4
9	Orlando	17
10	Lakeland	8
11	Miami	10
12	Sarasota	20
13	Tampa	30
14	Panama City	11
15	West Palm Beach	21
16	Florida Keys	1
17	Ft. Lauderdale	13
18	Melbourne	16
19	Ft. Pierce	7
20	Naples	9
21	Ft. Myers	8
22	Port Charlotte	5
23	St. Augustine	8
24	Sanford	3
25	Kissimmee	5
Statewide Totals		318

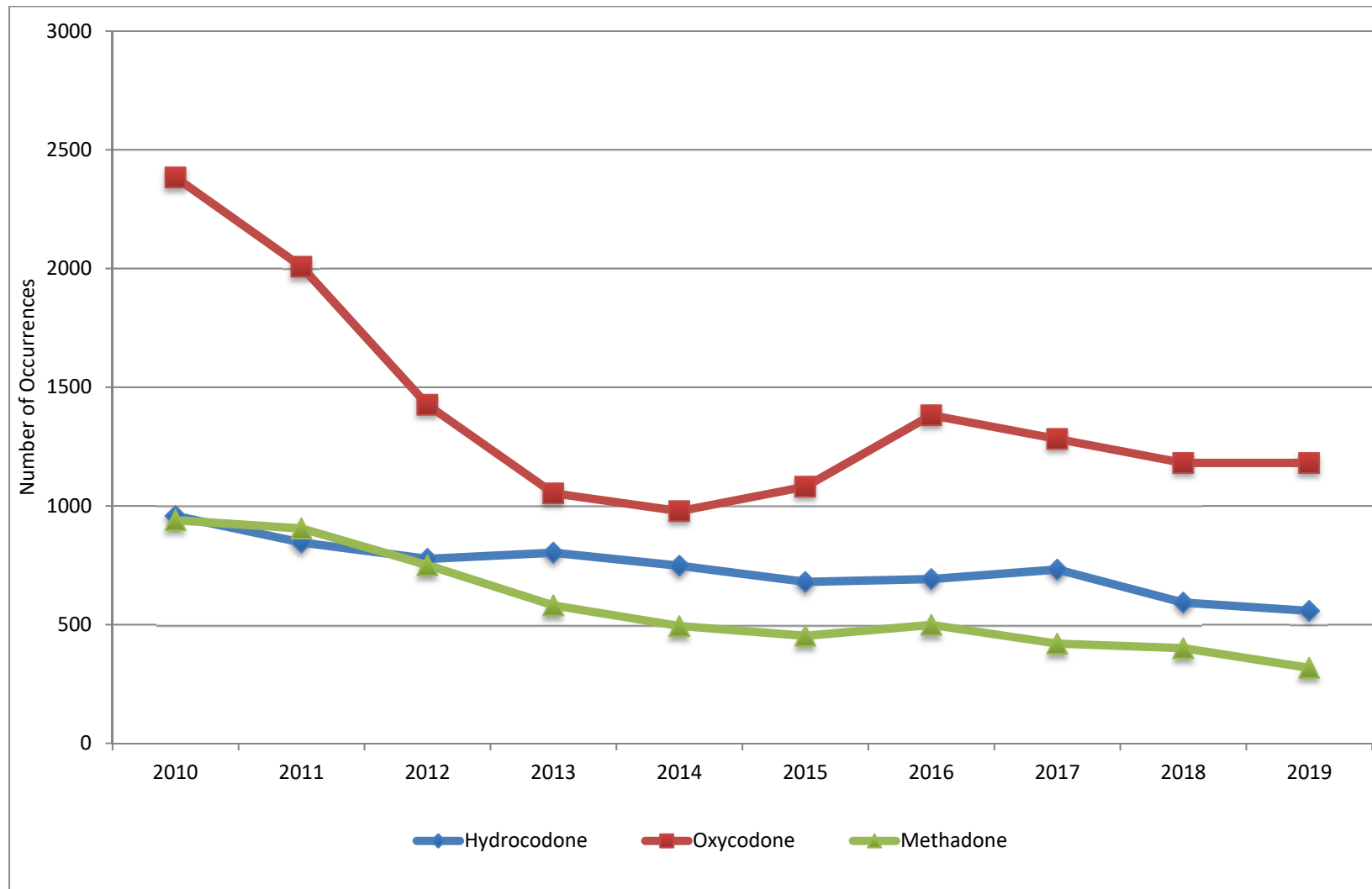
Methadone Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
14	2	0	3	6	3
4	0	0	1	2	1
1	0	0	0	1	0
23	0	0	5	13	5
5	0	0	1	2	2
29	1	1	5	10	12
3	0	0	0	3	0
3	0	0	1	1	1
6	0	0	1	2	3
7	0	0	1	3	3
3	0	0	0	3	0
13	0	0	3	7	3
16	0	0	4	9	3
3	0	1	0	1	1
6	0	0	1	2	3
1	0	0	0	0	1
10	0	0	1	3	6
6	0	0	0	6	0
2	0	0	0	1	1
5	0	1	0	2	2
5	0	0	3	1	1
1	0	0	1	0	0
5	1	1	1	1	1
1	0	1	0	0	0
2	0	0	0	1	1
174	4	5	32	80	53

Methadone Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
7	0	0	1	4	2
0	0	0	0	0	0
1	0	0	0	1	0
14	0	0	1	5	8
2	0	0	1	0	1
16	0	0	4	3	9
3	0	0	0	2	1
1	0	0	1	0	0
11	0	0	4	3	4
1	0	0	0	0	1
7	0	1	2	1	3
7	0	1	0	0	6
14	1	0	1	9	3
8	0	0	0	2	6
15	0	1	1	8	5
0	0	0	0	0	0
3	0	0	0	0	3
10	0	0	2	5	3
5	0	0	0	1	4
4	0	0	1	2	1
3	0	0	1	2	0
4	0	0	2	1	1
3	0	0	1	1	1
2	0	0	0	1	1
3	0	0	0	0	3
144	1	3	23	51	66

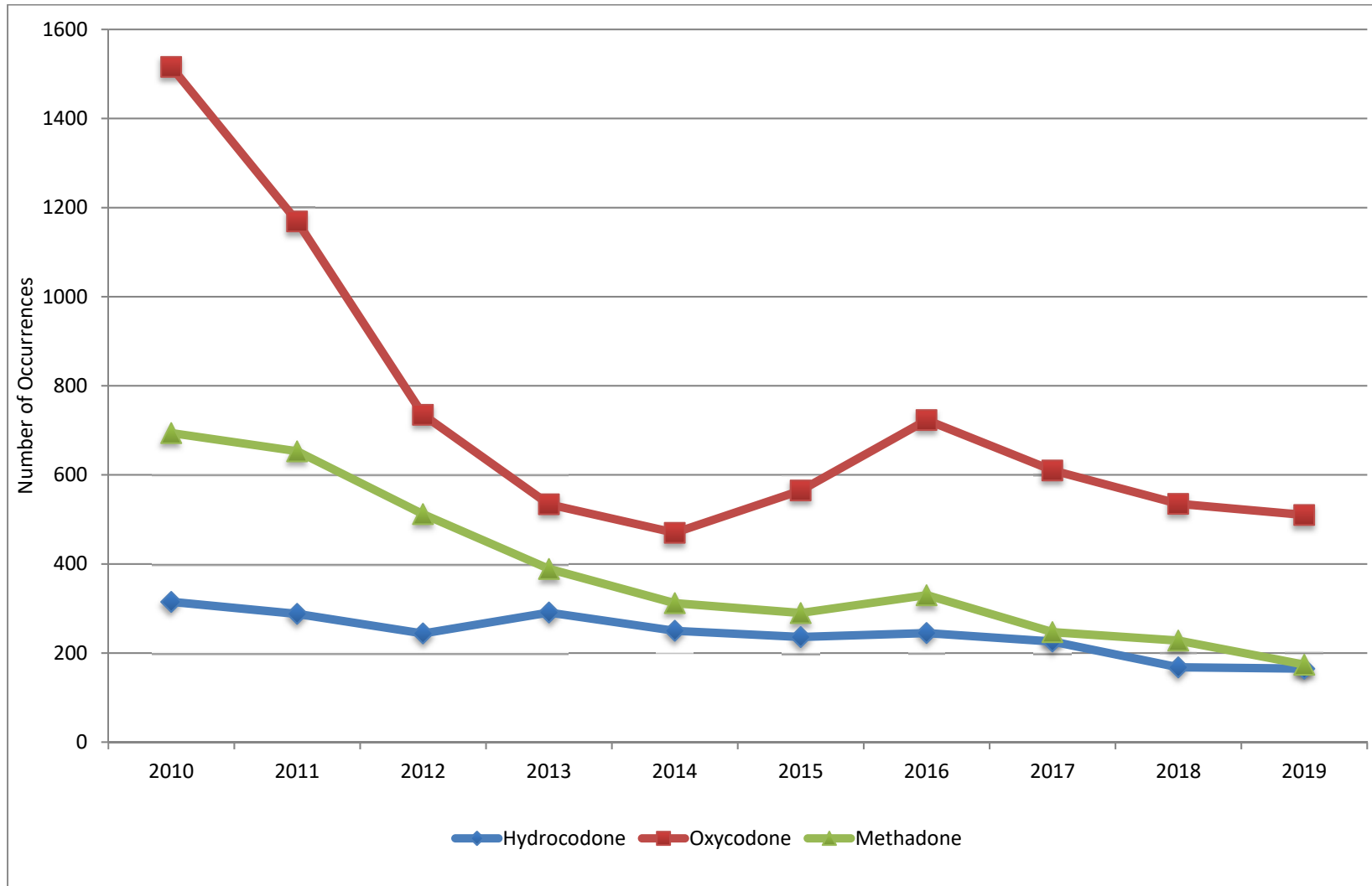
Methadone Deaths by County 2019



Historical Overview of Hydrocodone, Oxycodone and Methadone Occurrences (Present and Cause) 2010 to 2019



Historical Overview of Deaths Caused by Hydrocodone, Oxycodone and Methadone 2010 to 2019



Morphine Deaths

January – December 2019

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
74	46	28
20	4	16
6	2	4
103	64	39
90	51	39
184	135	49
64	19	45
21	9	12
151	73	78
42	10	32
154	84	70
59	22	37
133	93	40
31	5	26
264	125	139
4	3	1
164	94	70
53	31	22
30	5	25
43	25	18
61	32	29
25	1	24
16	4	12
29	21	8
34	26	8
1,855	984	871

Deaths with Morphine Only		
Total	Cause	Present
4	0	4
0	0	0
0	0	0
3	0	3
5	2	3
9	3	6
3	0	3
2	0	2
17	2	15
4	0	4
8	0	8
3	1	2
12	2	10
0	0	0
8	1	7
0	0	0
7	2	5
8	5	3
1	0	1
0	0	0
1	0	1
2	0	2
1	1	0
1	0	1
4	0	4
103	19	84

Deaths with Morphine in Combination with Other Drugs		
Total	Cause	Present
70	46	24
20	4	16
6	2	4
100	64	36
85	49	36
175	132	43
61	19	42
19	9	10
134	71	63
38	10	28
146	84	62
56	21	35
121	91	30
31	5	26
256	124	132
4	3	1
157	92	65
45	26	19
29	5	24
43	25	18
60	32	28
23	1	22
15	3	12
28	21	7
30	26	4
1,752	965	787

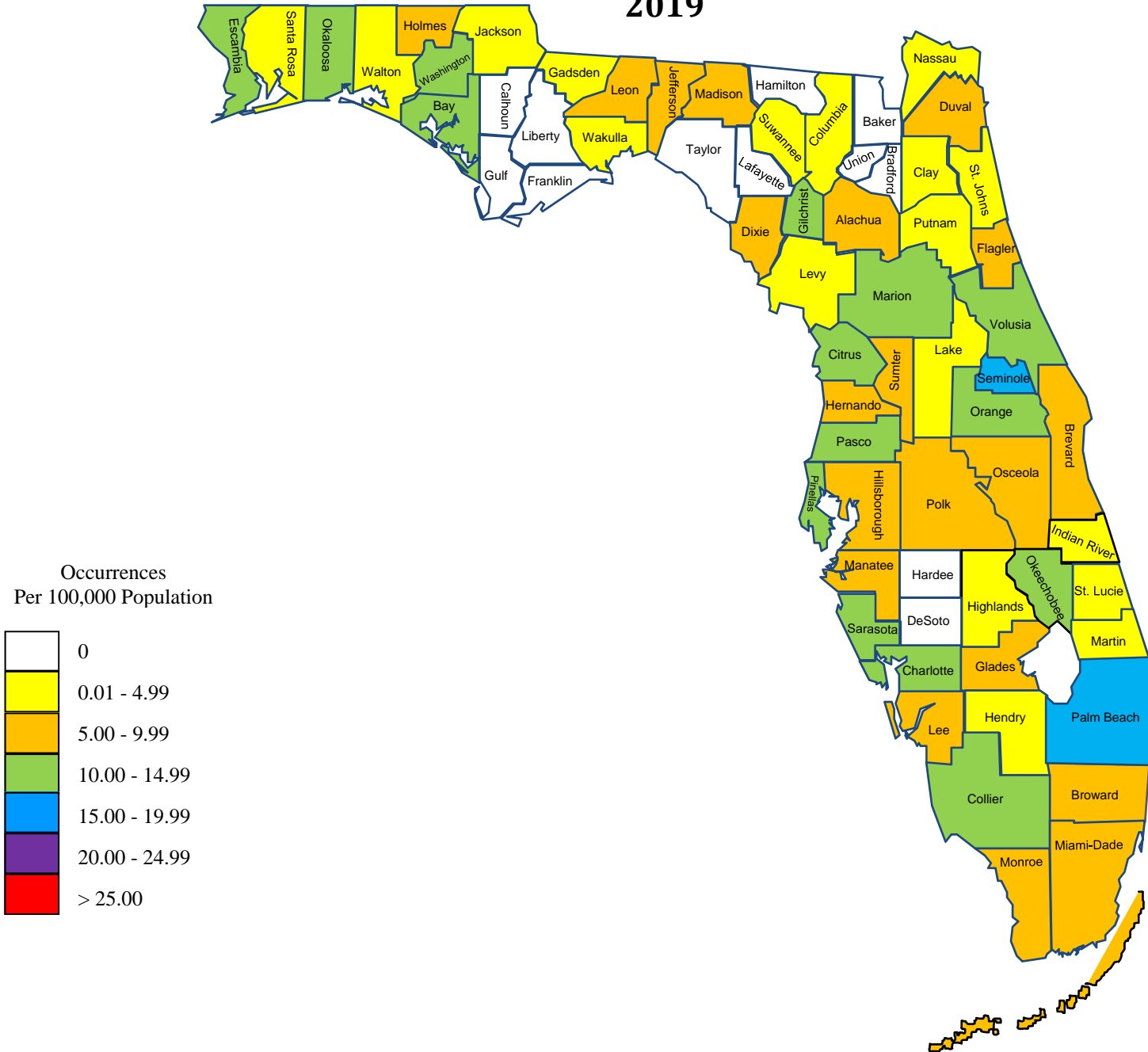
Morphine Deaths by Age January – December 2019

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	74
2	Tallahassee	20
3	Live Oak	6
4	Jacksonville	103
5	Leesburg	90
6	St. Petersburg	184
7	Daytona Beach	64
8	Gainesville	21
9	Orlando	151
10	Lakeland	42
11	Miami	154
12	Sarasota	59
13	Tampa	133
14	Panama City	31
15	West Palm Beach	264
16	Florida Keys	4
17	Ft. Lauderdale	164
18	Melbourne	53
19	Ft. Pierce	30
20	Naples	43
21	Ft. Myers	61
22	Port Charlotte	25
23	St. Augustine	16
24	Sanford	29
25	Kissimmee	34
Statewide Totals		1,855

Morphine Caused Death						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
46	1	1	12	21	11	
4	0	1	0	2	1	
2	0	0	0	1	1	
64	0	10	17	26	11	
51	0	2	18	12	19	
135	2	6	29	53	45	
19	0	1	5	7	6	
9	0	2	0	5	2	
73	1	5	18	31	18	
10	0	1	1	5	3	
84	0	8	17	32	27	
22	0	1	1	9	11	
93	0	8	20	36	29	
5	0	1	1	1	2	
125	0	17	35	47	26	
3	0	0	1	2	0	
94	0	7	24	36	27	
31	0	0	4	12	15	
5	0	0	1	1	3	
25	0	0	4	11	10	
32	0	5	5	13	9	
1	0	0	0	1	0	
4	0	0	1	1	2	
21	0	1	6	6	8	
26	0	3	4	11	8	
984	4	80	224	382	294	

Morphine Present at Death						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
28	0	2	5	9	12	
16	0	1	6	3	6	
4	0	0	0	1	3	
39	1	2	2	14	20	
39	0	2	6	13	18	
49	0	3	5	14	27	
45	1	3	13	15	13	
12	0	0	2	3	7	
78	2	4	5	12	55	
32	0	3	4	10	15	
70	0	7	13	19	31	
37	0	2	8	12	15	
40	0	1	2	16	21	
26	0	2	9	7	8	
139	0	7	48	41	43	
1	0	0	1	0	0	
70	1	4	18	32	15	
22	0	2	3	7	10	
25	0	2	5	8	10	
18	0	1	7	9	1	
29	1	0	5	9	14	
24	0	0	3	6	15	
12	0	3	2	4	3	
8	0	1	3	1	3	
8	0	2	1	1	4	
871	6	54	176	266	369	

Morphine Deaths by County 2019



Fentanyl Deaths January – December 2019

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
103	89	14
13	6	7
8	5	3
430	379	51
130	113	17
338	327	11
119	106	13
22	14	8
301	243	58
41	36	5
260	227	33
133	121	12
148	137	11
36	23	13
434	392	42
8	7	1
378	355	23
234	209	25
99	78	21
63	61	2
196	177	19
23	19	4
37	30	7
48	44	4
53	46	7
3,655	3,244	411

Deaths with Fentanyl Only		
Total	Cause	Present
9	7	2
2	0	2
0	0	0
32	26	6
13	8	5
28	27	1
5	4	1
3	1	2
21	13	8
6	5	1
4	1	3
13	12	1
21	20	1
3	1	2
10	6	4
1	1	0
31	27	4
16	14	2
8	2	6
1	1	0
17	14	3
0	0	0
6	4	2
3	1	2
6	4	2
259	199	60

Deaths with Fentanyl in Combination with Other Drugs		
Total	Cause	Present
94	82	12
11	6	5
8	5	3
398	353	45
117	105	12
310	300	10
114	102	12
19	13	6
280	230	50
35	31	4
256	226	30
120	109	11
127	117	10
33	22	11
424	386	38
7	6	1
347	328	19
218	195	23
91	76	15
62	60	2
179	163	16
23	19	4
31	26	5
45	43	2
47	42	5
3,396	3,045	351

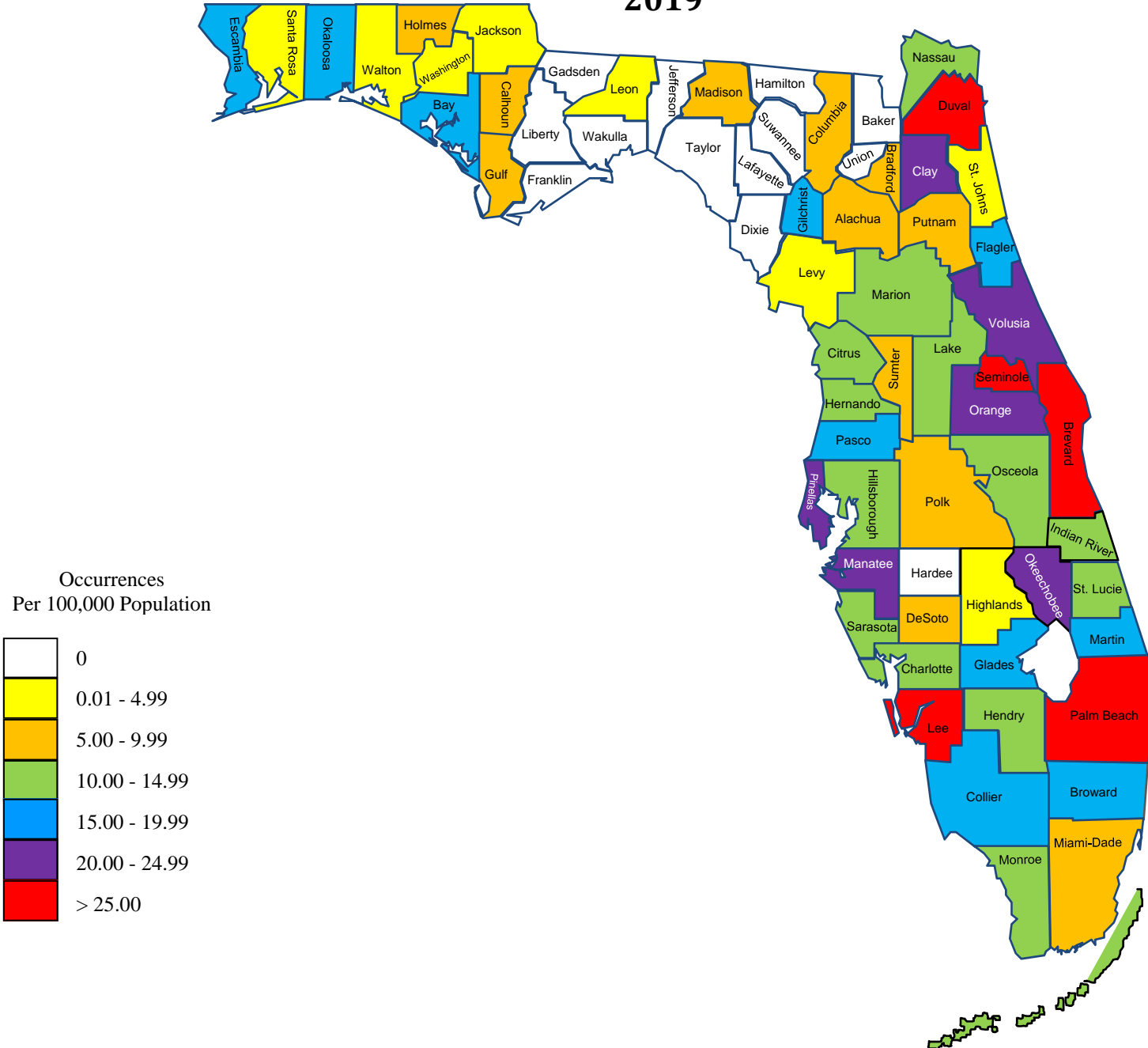
Fentanyl Deaths by Age January – December 2019

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	103
2	Tallahassee	13
3	Live Oak	8
4	Jacksonville	430
5	Leesburg	130
6	St. Petersburg	338
7	Daytona Beach	119
8	Gainesville	22
9	Orlando	301
10	Lakeland	41
11	Miami	260
12	Sarasota	133
13	Tampa	148
14	Panama City	36
15	West Palm Beach	434
16	Florida Keys	8
17	Ft. Lauderdale	378
18	Melbourne	234
19	Ft. Pierce	99
20	Naples	63
21	Ft. Myers	196
22	Port Charlotte	23
23	St. Augustine	37
24	Sanford	48
25	Kissimmee	53
Statewide Totals		3,655

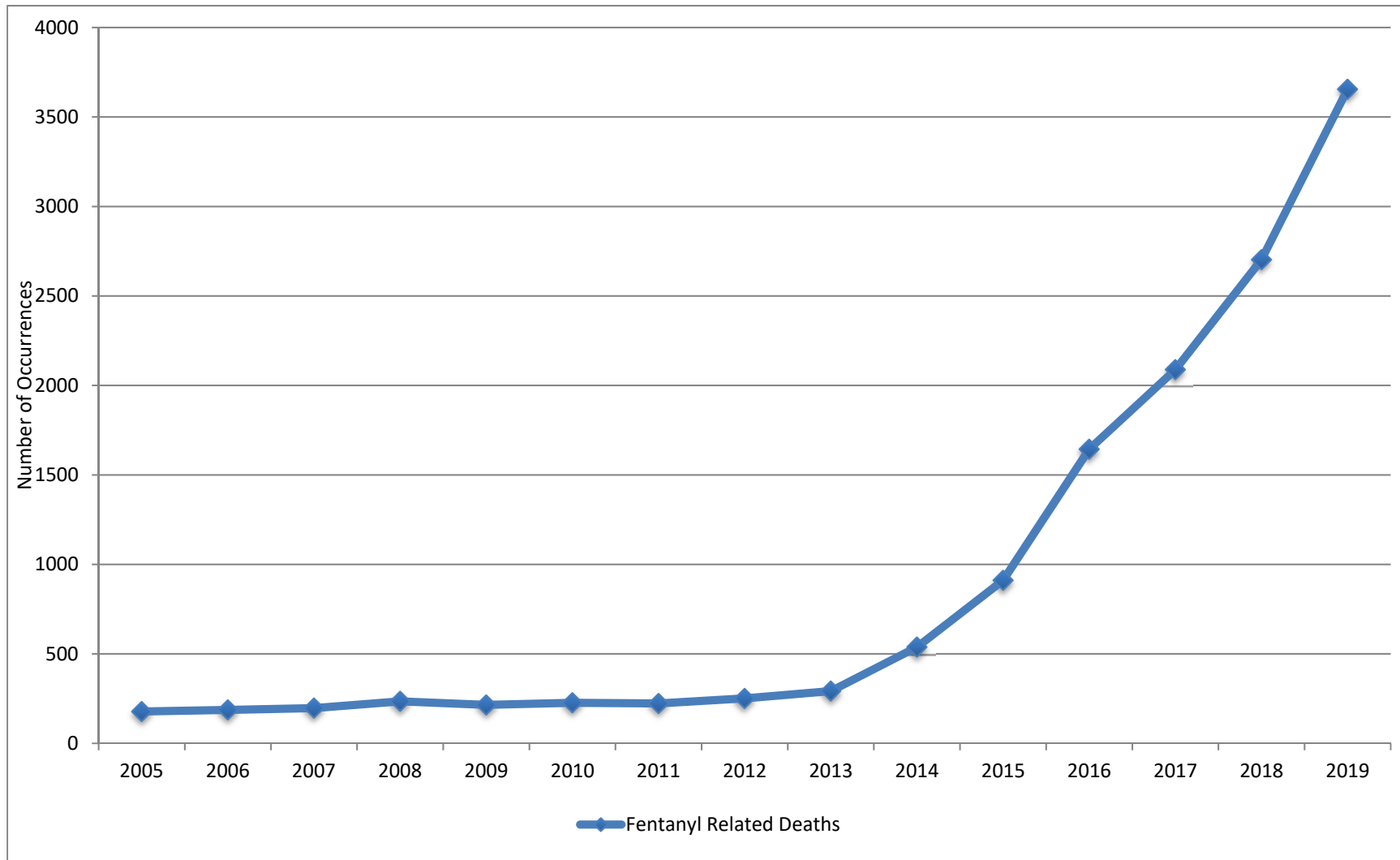
Fentanyl Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
89	1	4	26	42	16
6	0	1	1	1	3
5	0	0	1	3	1
379	0	33	107	169	70
113	0	10	38	43	22
327	1	22	84	146	74
106	0	9	37	44	16
14	0	1	4	6	3
243	2	24	58	100	59
36	0	3	11	15	7
227	0	25	49	93	60
121	3	9	30	49	30
137	0	7	43	54	33
23	0	2	7	9	5
392	2	49	132	144	65
7	0	0	5	1	1
355	2	40	72	161	80
209	1	12	52	87	57
78	0	9	22	28	19
61	0	3	27	22	9
177	1	15	51	75	35
19	0	0	7	9	3
30	0	6	8	12	4
44	0	1	21	15	7
46	0	6	8	20	12
3,244	13	291	901	1,348	691

Fentanyl Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
14	0	1	4	3	6
7	1	1	2	1	2
3	0	0	0	2	1
51	1	2	12	16	20
17	0	1	5	5	6
11	0	0	1	5	5
13	1	1	2	3	6
8	0	0	1	1	6
58	2	4	11	19	22
5	0	0	1	2	2
33	1	2	8	8	14
12	0	0	4	8	0
11	0	0	1	3	7
13	0	0	7	3	3
42	0	8	9	12	13
1	0	0	0	1	0
23	1	2	4	7	9
25	1	1	5	8	10
21	0	2	1	9	9
2	0	0	0	2	0
19	2	1	5	3	8
4	0	0	1	1	2
7	0	0	3	0	4
4	0	1	1	1	1
7	1	0	2	0	4
411	11	27	90	123	160

Fentanyl Deaths by County 2019



Historical Overview of Fentanyl Occurrences¹ (Present and Cause) 2005 to 2019



¹Prior to 2016, the number of fentanyl occurrences indicated includes occurrences of fentanyl analogs. Starting in 2016, fentanyl analogs were tracked separately.

Prescription Drugs in Medical Examiner Deaths 2018 versus 2019

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

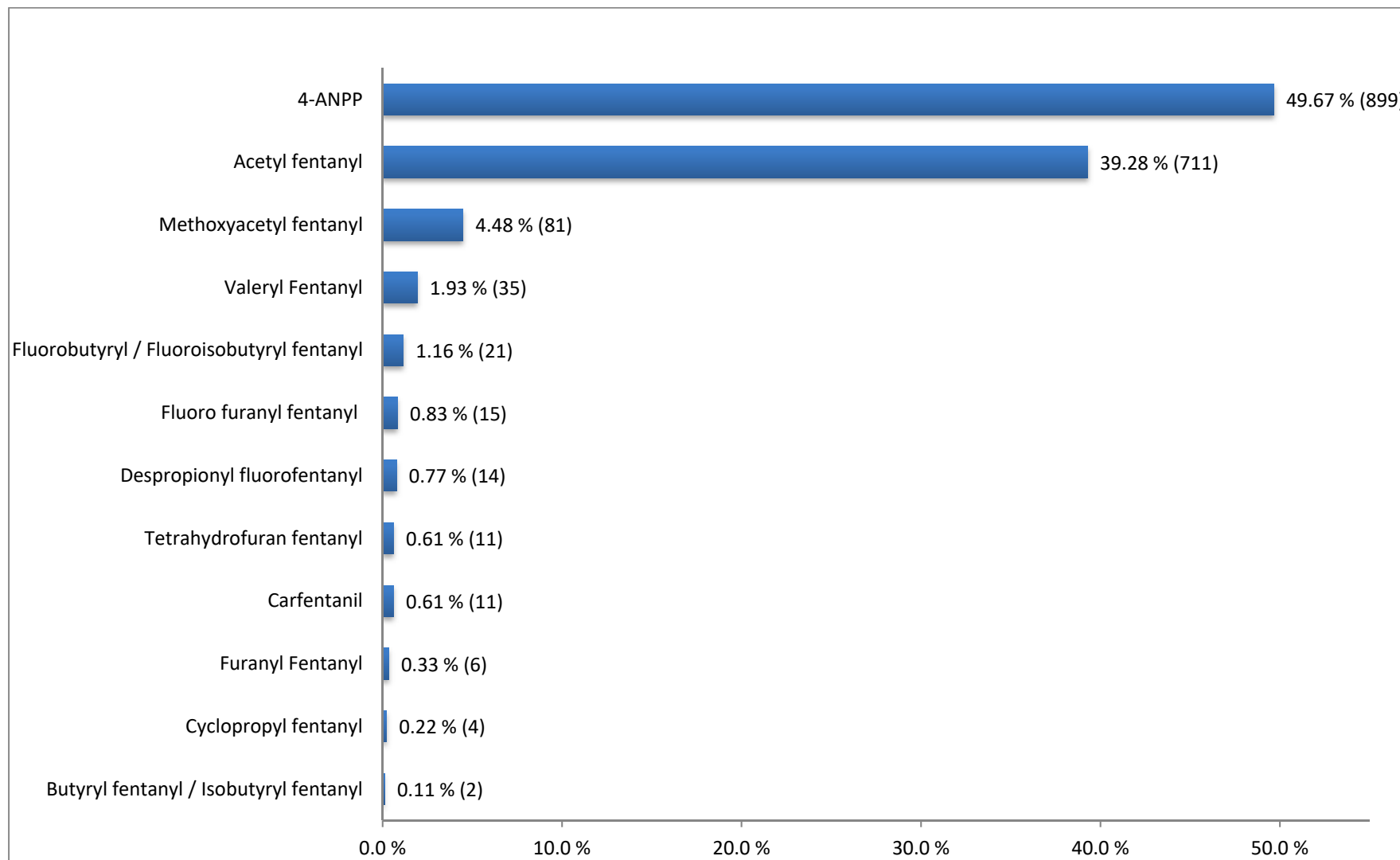
Total Prescription Drug Deaths in ME Deaths (Present and Cause)		
2018	2019	Percent Change
212	223	5.2%
80	73	-8.8%
49	34	-30.6%
552	676	22.5%
353	327	-7.4%
591	695	17.6%
233	236	1.3%
88	87	-1.1%
510	547	7.3%
187	192	2.7%
516	615	19.2%
217	289	33.2%
417	399	-4.3%
117	139	18.8%
659	687	4.2%
24	27	12.5%
464	548	18.1%
345	364	5.5%
248	190	-23.4%
101	122	20.8%
324	319	-1.5%
76	64	-15.8%
87	88	1.1%
109	93	-14.7%
142	108	-23.9%
6,701	7,142	6.6%
<p><i>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.</i></p>		

Accidental Deaths with Prescription Drugs (Present and Cause)		
2018	2019	Percent Change
143	164	14.7%
31	39	25.8%
25	18	-28.0%
382	489	28.0%
221	214	-3.2%
406	540	33.0%
174	165	-5.2%
45	52	15.6%
357	398	11.5%
116	110	-5.2%
297	378	27.3%
133	204	53.4%
259	250	-3.5%
53	86	62.3%
472	522	10.6%
16	17	6.3%
375	453	20.8%
233	279	19.7%
150	126	-16.0%
56	85	51.8%
262	236	-9.9%
36	42	16.7%
45	57	26.7%
80	71	-11.3%
100	72	-28.0%
4,467	5,067	13.4%
<p><i>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.</i></p>		

Accidental Deaths Caused by Prescription Drugs		
2018	2019	Percent Change
109	126	15.6%
14	19	35.7%
19	10	-47.4%
314	424	35.0%
155	170	9.7%
332	473	42.5%
141	127	-9.9%
27	28	3.7%
260	288	10.8%
68	62	-8.8%
197	259	31.5%
101	162	60.4%
204	208	2.0%
21	42	100.0%
364	452	24.2%
10	14	40.0%
332	407	22.6%
201	247	22.9%
104	94	-9.6%
46	71	54.3%
221	199	-10.0%
11	21	90.9%
28	42	50.0%
73	55	-24.7%
73	58	-20.5%
3,425	4,058	18.5%
<p><i>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.</i></p>		

Frequency of Occurrence of Fentanyl Analogs

January – December 2019



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. Despropionyl fluorofentanyl includes the analytes despropionyl fluorofentanyl, despropionyl ortho-fluorofentanyl and despropionyl para-fluorofentanyl. Percentages may not sum to 100 percent because of rounding.

Fentanyl Analog Deaths

January – December 2019

Medical Examiner District and Area of Florida		Total Deaths with Fentanyl Analogs			Deaths with Fentanyl Analogs Only			Deaths with Fentanyl Analogs in Combination with Other Drugs		
District	Area of Florida	Total	Cause	Present	Total	Cause	Present	Total	Cause	Present
1	Pensacola	6	6	0	0	0	0	6	6	0
2	Tallahassee	1	1	0	0	0	0	1	1	0
3	Live Oak	3	1	2	0	0	0	3	1	2
4	Jacksonville	194	146	48	0	0	0	194	146	48
5	Leesburg	20	19	1	0	0	0	20	19	1
6	St. Petersburg	92	74	18	3	3	0	89	71	18
7	Daytona Beach	59	25	34	0	0	0	59	25	34
8	Gainesville	0	0	0	0	0	0	0	0	0
9	Orlando	122	23	99	0	0	0	122	23	99
10	Lakeland	6	5	1	0	0	0	6	5	1
11	Miami	155	113	42	0	0	0	155	113	42
12	Sarasota	30	12	18	0	0	0	30	12	18
13	Tampa	5	4	1	1	1	0	4	3	1
14	Panama City	21	18	3	0	0	0	21	18	3
15	West Palm Beach	337	235	102	0	0	0	337	235	102
16	Florida Keys	3	1	2	0	0	0	3	1	2
17	Ft. Lauderdale	124	123	1	0	0	0	124	123	1
18	Melbourne	56	42	14	0	0	0	56	42	14
19	Ft. Pierce	42	15	27	0	0	0	42	15	27
20	Naples	17	15	2	0	0	0	17	15	2
21	Ft. Myers	92	31	61	0	0	0	92	31	61
22	Port Charlotte	0	0	0	0	0	0	0	0	0
23	St. Augustine	5	5	0	0	0	0	5	5	0
24	Sanford	2	2	0	0	0	0	2	2	0
25	Kissimmee	26	6	20	0	0	0	26	6	20
Statewide Totals		1,418	922	496	4	4	0	1,414	918	496

Fentanyl Analog Deaths by Age January – December 2019

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	6
2	Tallahassee	1
3	Live Oak	3
4	Jacksonville	194
5	Leesburg	20
6	St. Petersburg	92
7	Daytona Beach	59
8	Gainesville	0
9	Orlando	122
10	Lakeland	6
11	Miami	155
12	Sarasota	30
13	Tampa	5
14	Panama City	21
15	West Palm Beach	337
16	Florida Keys	3
17	Ft. Lauderdale	124
18	Melbourne	56
19	Ft. Pierce	42
20	Naples	17
21	Ft. Myers	92
22	Port Charlotte	0
23	St. Augustine	5
24	Sanford	2
25	Kissimmee	26
Statewide Totals		1,418

Fentanyl Analogs Caused Death						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
6	0	0	0	4	2	
1	0	0	0	1	0	
1	0	0	0	1	0	
146	0	8	35	71	32	
19	0	1	5	11	2	
74	0	3	16	39	16	
25	0	2	8	9	6	
0	0	0	0	0	0	
23	1	3	5	10	4	
5	0	0	2	1	2	
113	0	7	22	55	29	
12	1	2	3	2	4	
4	0	1	0	1	2	
18	0	2	5	8	3	
235	1	31	79	86	38	
1	0	0	1	0	0	
123	1	16	23	59	24	
42	0	2	14	13	13	
15	0	2	2	7	4	
15	0	1	6	7	1	
31	0	4	6	15	6	
0	0	0	0	0	0	
5	0	1	1	2	1	
2	0	0	1	1	0	
6	0	1	2	1	2	
922	4	87	236	404	191	

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	
2	0	0	0	1	1	
48	0	6	11	22	9	
1	0	0	0	0	1	
18	0	1	6	11	0	
34	0	3	14	15	2	
0	0	0	0	0	0	
99	1	5	31	36	26	
1	0	0	0	0	1	
42	0	6	13	11	12	
18	0	2	6	9	1	
1	0	0	0	1	0	
3	0	0	2	1	0	
102	0	13	40	40	9	
2	0	0	0	2	0	
1	0	0	1	0	0	
14	0	1	3	6	4	
27	0	3	8	12	4	
2	0	0	1	1	0	
61	1	5	21	24	10	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
20	0	2	4	10	4	
496	2	47	161	202	84	

Cocaine Deaths

January – December 2019

Medical Examiner District and Area of Florida		Total Deaths with Cocaine			Deaths with Cocaine Only			Deaths with Cocaine in Combination with Other Drugs		
District	Area of Florida	Total	Cause	Present	Total	Cause	Present	Total	Cause	Present
1	Pensacola	73	51	22	15	11	4	58	40	18
2	Tallahassee	20	16	4	10	10	0	10	6	4
3	Live Oak	7	2	5	0	0	0	7	2	5
4	Jacksonville	279	182	97	25	9	16	254	173	81
5	Leesburg	77	59	18	8	5	3	69	54	15
6	St. Petersburg	250	171	79	21	13	8	229	158	71
7	Daytona Beach	76	35	41	13	5	8	63	30	33
8	Gainesville	46	21	25	10	3	7	36	18	18
9	Orlando	265	182	83	46	22	24	219	160	59
10	Lakeland	50	36	14	11	9	2	39	27	12
11	Miami	418	256	162	46	22	24	372	234	138
12	Sarasota	117	68	49	10	6	4	107	62	45
13	Tampa	140	78	62	38	21	17	102	57	45
14	Panama City	30	18	12	4	3	1	26	15	11
15	West Palm Beach	343	142	201	28	11	17	315	131	184
16	Florida Keys	15	12	3	2	2	0	13	10	3
17	Ft. Lauderdale	277	204	73	25	17	8	252	187	65
18	Melbourne	130	93	37	7	5	2	123	88	35
19	Ft. Pierce	66	36	30	7	3	4	59	33	26
20	Naples	61	47	14	7	4	3	54	43	11
21	Ft. Myers	98	51	47	8	2	6	90	49	41
22	Port Charlotte	12	10	2	1	1	0	11	9	2
23	St. Augustine	24	9	15	3	1	2	21	8	13
24	Sanford	44	31	13	3	2	1	41	29	12
25	Kissimmee	44	33	11	9	6	3	35	27	8
Statewide Totals		2,962	1,843	1,119	357	193	164	2,605	1,650	955

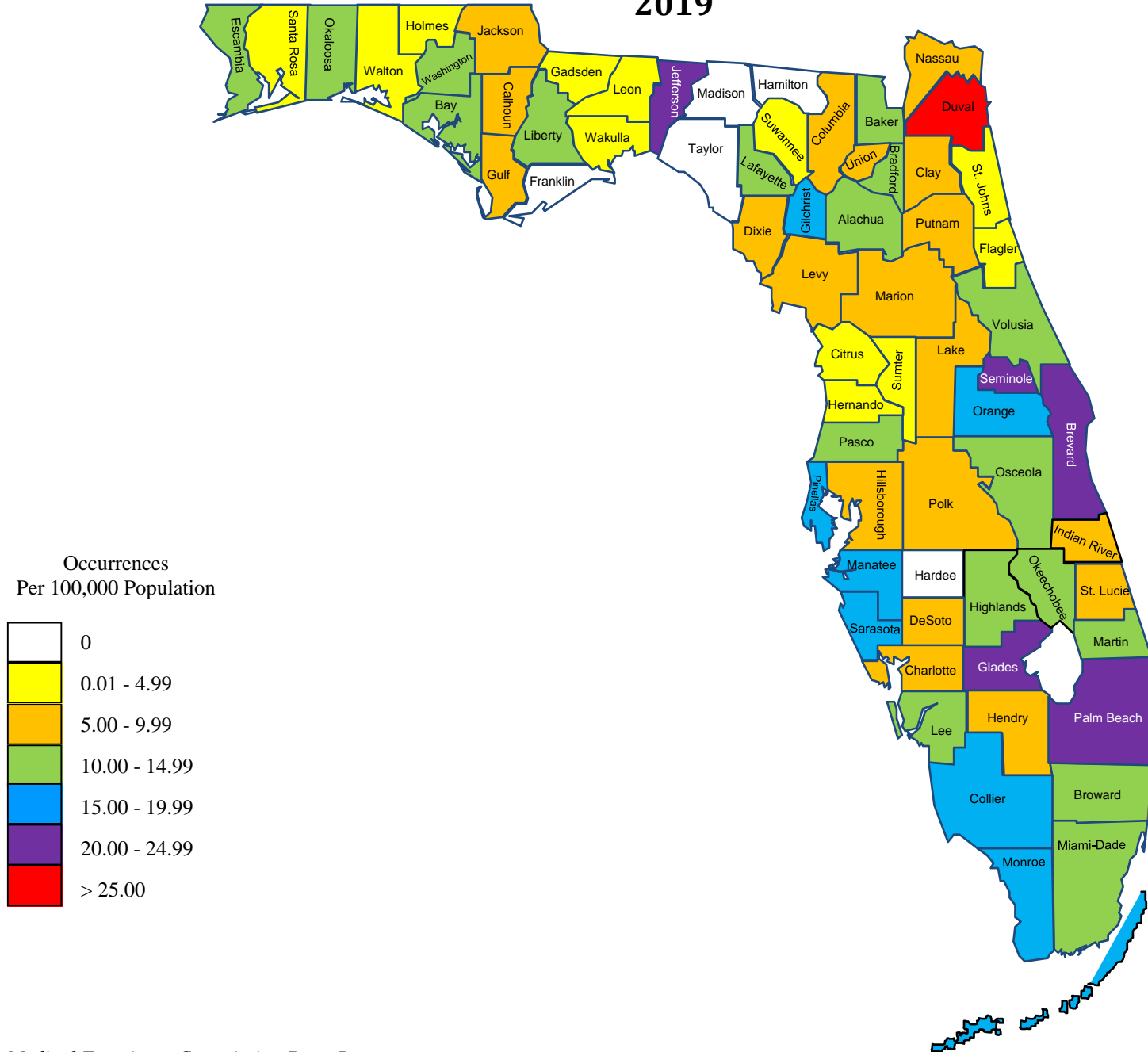
Cocaine Deaths by Age January – December 2019

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	73
2	Tallahassee	20
3	Live Oak	7
4	Jacksonville	279
5	Leesburg	77
6	St. Petersburg	250
7	Daytona Beach	76
8	Gainesville	46
9	Orlando	265
10	Lakeland	50
11	Miami	418
12	Sarasota	117
13	Tampa	140
14	Panama City	30
15	West Palm Beach	343
16	Florida Keys	15
17	Ft. Lauderdale	277
18	Melbourne	130
19	Ft. Pierce	66
20	Naples	61
21	Ft. Myers	98
22	Port Charlotte	12
23	St. Augustine	24
24	Sanford	44
25	Kissimmee	44
Statewide Totals		2,962

Cocaine Caused Death						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
51	0	2	11	19	19	
16	0	0	1	3	12	
2	0	0	0	1	1	
182	0	14	42	79	47	
59	0	3	18	14	24	
171	1	6	32	70	62	
35	0	1	6	15	13	
21	0	1	1	12	7	
182	0	17	37	67	61	
36	0	0	6	13	17	
256	0	16	49	104	87	
68	0	2	16	27	23	
78	0	6	11	24	37	
18	0	1	2	7	8	
142	0	15	42	49	36	
12	0	0	4	4	4	
204	1	19	33	89	62	
93	1	4	17	32	39	
36	0	3	9	15	9	
47	1	1	15	16	14	
51	0	2	16	18	15	
10	0	0	4	2	4	
9	0	1	0	4	4	
31	0	2	8	11	10	
33	0	6	3	16	8	
1,843	4	122	383	711	623	

Cocaine Present at Death						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
22	0	2	4	8	8	
4	0	1	2	0	1	
5	0	0	1	1	3	
97	0	7	27	37	26	
18	0	3	3	5	7	
79	0	6	11	39	23	
41	2	3	9	13	14	
25	0	3	3	7	12	
83	2	7	16	37	21	
14	0	5	5	1	3	
162	1	19	42	40	60	
49	0	5	13	18	13	
62	1	5	13	18	25	
12	0	0	6	4	2	
201	0	18	62	80	41	
3	0	0	1	1	1	
73	1	4	21	26	21	
37	0	1	12	12	12	
30	0	5	8	11	6	
14	0	3	3	5	3	
47	0	1	15	16	15	
2	0	0	1	1	0	
15	0	1	4	6	4	
13	1	0	3	7	2	
11	0	2	1	5	3	
1,119	8	101	286	398	326	

Cocaine Deaths by County 2019

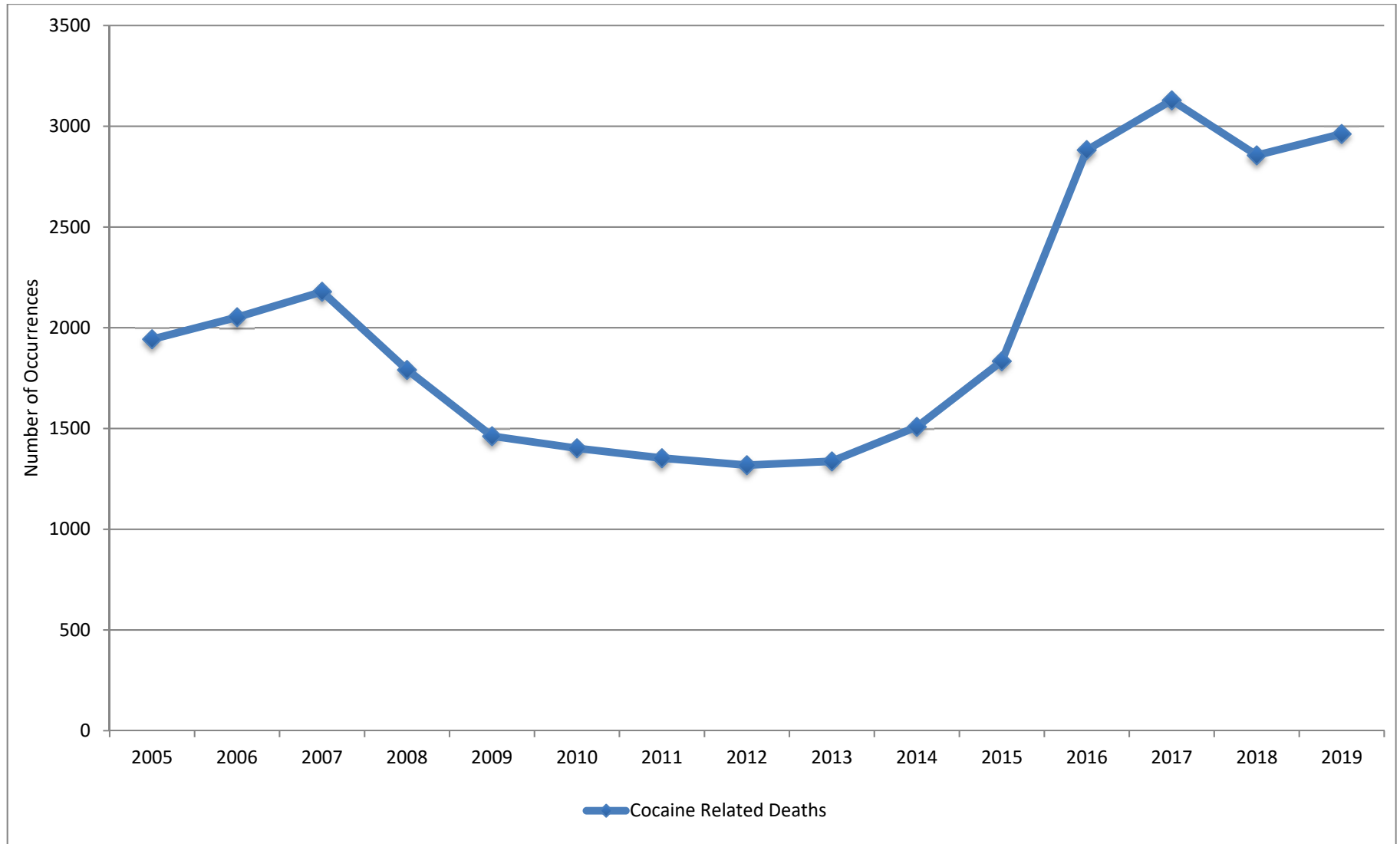


Cocaine Related Deaths by Medical Examiner District
(Present and Cause)
2005 to 2019

District	Area of Florida	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
1	Pensacola	69	78	76	56	33	36	34	34	31	56	80	57	58	71	73
2	Tallahassee	58	51	40	27	30	25	36	25	23	20	18	32	15	11	20
3	Live Oak	19	16	10	13	16	9	8	13	10	6	5	10	4	12	7
4	Jacksonville	195	246	248	165	125	115	113	119	119	107	146	266	359	251	279
5	Leesburg	60	21	45	67	56	52	48	46	57	62	54	128	109	84	77
6	St. Petersburg	138	185	173	154	139	134	112	125	100	98	101	157	187	225	250
7	Daytona Beach	77	64	84	51	58	44	43	36	37	34	37	51	88	102	76
8	Gainesville	48	47	42	32	39	39	34	30	29	30	31	41	43	35	46
9	Orlando	165	178	190	179	145	128	124	120	137	181	203	230	234	266	265
10	Lakeland	75	53	41	40	35	42	29	27	37	33	33	53	70	67	50
11	Miami	162	182	281	201	155	198	184	198	226	234	289	439	401	363	418
12	Sarasota	83	106	105	75	59	57	54	60	60	84	134	147	132	96	117
13	Tampa	115	130	158	146	54	83	96	59	74	65	84	108	109	140	140
14	Panama City	24	32	31	17	20	9	9	10	11	13	15	5	15	20	30
15	West Palm Beach	197	191	168	143	126	106	91	87	105	143	173	405	417	338	343
16	Florida Keys	18	16	27	15	14	11	7	13	4	6	13	20	20	11	15
17	Ft. Lauderdale	136	150	157	146	135	127	115	129	102	99	152	328	321	236	277
18	Melbourne	84	80	62	68	59	49	38	52	53	60	86	103	128	114	130
19	Ft. Pierce	58	45	46	47	35	20	40	24	34	50	49	71	88	69	66
20	Naples	24	34	29	15	21	13	23	16	10	29	23	40	32	45	61
21	Ft. Myers	78	96	79	67	48	53	73	56	51	63	71	99	152	146	98
22	Port Charlotte	14	14	19	14	9	5	7	9	2	10	12	9	13	10	12
23	St. Augustine	24	17	33	27	19	23	15	11	11	1	9	23	39	33	24
24	Sanford	22	20	35	26	32	24	20	19	14	24	16	37	41	50	44
25	Kissimmee												23	54	61	44
Statewide Total		1,943	2,052	2,179	1,791	1,462	1,402	1,353	1,318	1,337	1,508	1,834	2,882	3,129	2,856	2,962

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) 2005 to 2019



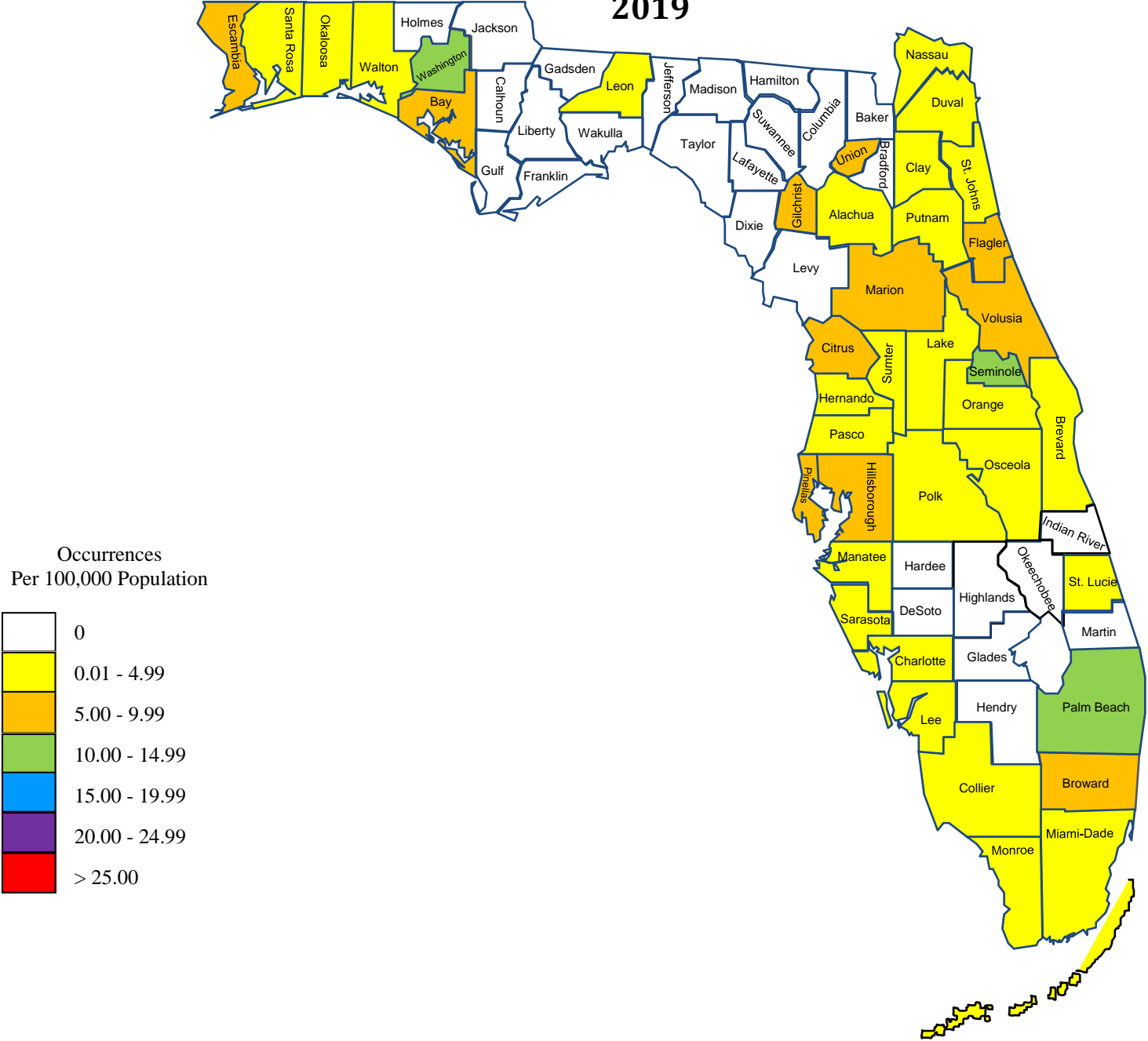
Heroin Deaths by Age January – December 2019

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	35
2	Tallahassee	4
3	Live Oak	0
4	Jacksonville	50
5	Leesburg	56
6	St. Petersburg	73
7	Daytona Beach	34
8	Gainesville	5
9	Orlando	58
10	Lakeland	11
11	Miami	68
12	Sarasota	20
13	Tampa	77
14	Panama City	18
15	West Palm Beach	205
16	Florida Keys	1
17	Ft. Lauderdale	133
18	Melbourne	8
19	Ft. Pierce	3
20	Naples	17
21	Ft. Myers	22
22	Port Charlotte	4
23	St. Augustine	11
24	Sanford	23
25	Kissimmee	18
Statewide Totals		954

Heroin Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
35	0	1	11	15	8
3	0	0	0	2	1
0	0	0	0	0	0
48	0	4	10	27	7
55	0	5	21	17	12
69	0	4	19	26	20
28	0	2	10	13	3
4	0	2	0	1	1
56	0	5	18	24	9
11	0	2	2	6	1
63	0	9	10	22	22
19	0	2	7	8	2
72	0	5	18	28	21
17	0	1	6	6	4
105	0	15	35	41	14
1	0	0	1	0	0
120	0	13	27	54	26
6	0	1	3	2	0
2	0	0	0	1	1
17	0	0	3	9	5
22	0	5	3	10	4
4	0	0	1	3	0
11	0	3	2	2	4
23	0	1	7	9	6
18	0	3	2	9	4
809	0	83	216	335	175

Heroin Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
0	0	0	0	0	0
1	0	0	1	0	0
0	0	0	0	0	0
2	0	1	0	1	0
1	0	0	0	1	0
4	0	1	0	2	1
6	0	1	3	2	0
1	0	0	0	1	0
2	0	0	0	1	1
0	0	0	0	0	0
5	0	1	1	2	1
1	0	0	0	0	1
5	0	0	1	1	3
1	0	0	0	1	0
100	0	7	45	31	17
0	0	0	0	0	0
13	0	0	7	4	2
2	0	0	1	1	0
1	0	0	0	1	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
0	0	0	0	0	0
0	0	0	0	0	0
145	0	11	59	49	26

Heroin Deaths by County 2019



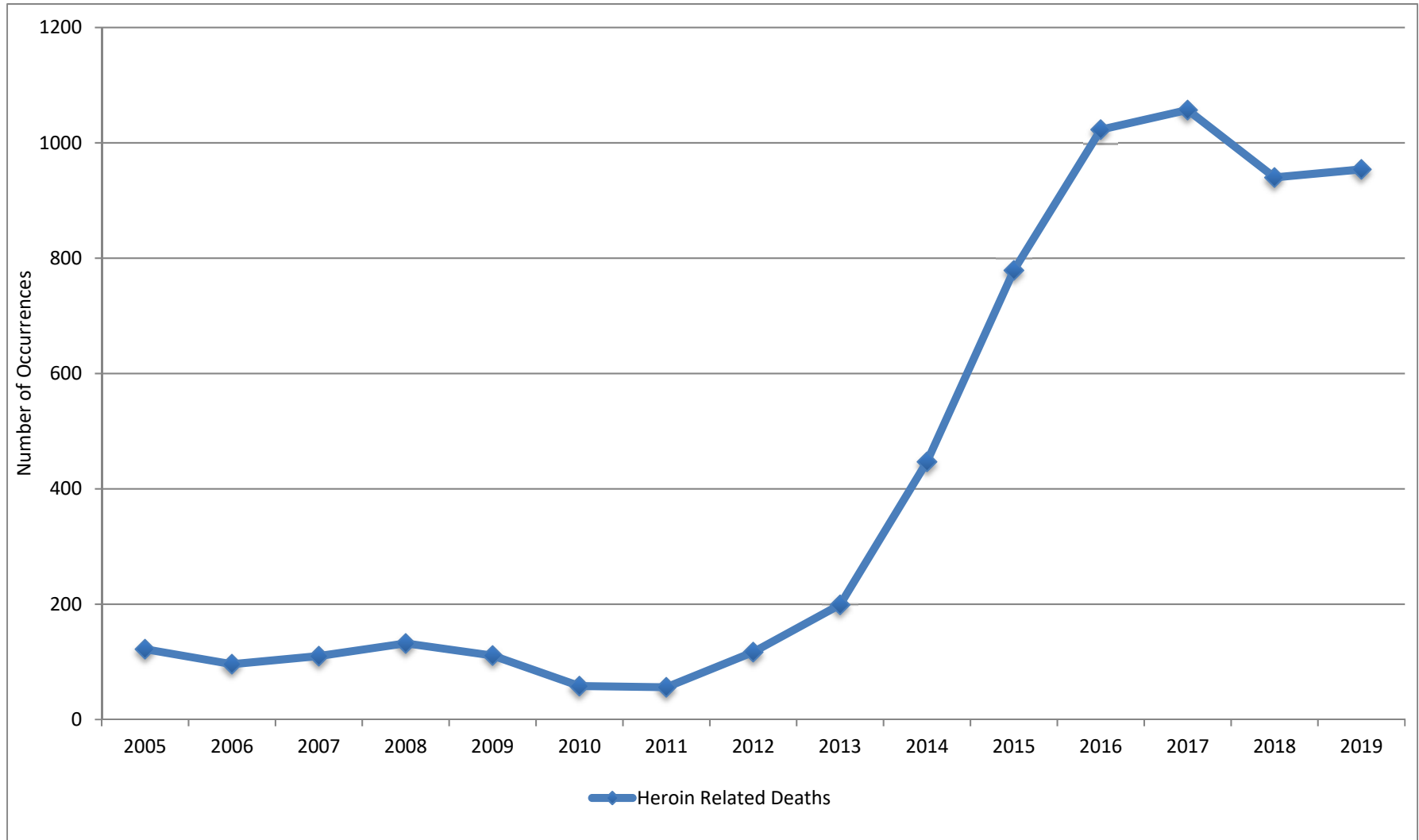
Heroin Related Deaths by Medical Examiner District
(Present and Cause)
2005 to 2019

District	Area of Florida	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
1	Pensacola	0	1	0	1	2	0	0	1	3	12	28	34	30	35	35
2	Tallahassee	0	0	0	0	0	0	1	0	1	2	0	1	2	1	4
3	Live Oak	0	0	0	0	0	0	0	0	1	0	1	0	2	0	0
4	Jacksonville	5	4	8	3	4	1	3	14	15	16	45	81	98	60	50
5	Leesburg	0	0	0	5	1	0	1	3	2	16	8	40	34	44	56
6	St. Petersburg	13	7	12	5	9	3	1	1	4	7	14	18	22	56	73
7	Daytona Beach	2	1	2	0	3	1	0	1	3	4	20	21	37	75	34
8	Gainesville	0	0	0	0	0	0	0	2	1	2	3	2	4	2	5
9	Orlando	15	7	16	16	24	10	18	26	41	83	108	68	59	54	58
10	Lakeland	2	2	0	0	2	1	0	1	4	7	10	11	10	5	11
11	Miami	22	20	26	38	30	26	15	33	40	60	92	139	97	59	68
12	Sarasota	9	14	4	19	4	2	2	8	19	55	68	32	22	17	20
13	Tampa	6	7	11	5	2	1	2	2	3	22	35	52	75	114	77
14	Panama City	0	0	1	0	0	1	0	0	2	2	4	8	4	7	18
15	West Palm Beach	19	8	10	7	7	4	6	6	20	51	165	205	215	174	205
16	Florida Keys	0	1	0	1	1	0	0	1	1	0	1	7	4	0	1
17	Ft. Lauderdale	17	13	4	17	8	5	3	9	11	28	80	180	186	110	133
18	Melbourne	2	1	1	1	2	0	0	0	2	7	12	21	25	18	8
19	Ft. Pierce	1	3	3	3	1	1	1	2	3	7	8	7	13	4	3
20	Naples	1	4	1	1	0	0	0	0	2	14	11	15	15	14	17
21	Ft. Myers	1	2	4	7	9	0	1	4	12	30	43	30	34	35	22
22	Port Charlotte	3	1	0	0	1	0	0	1	1	3	2	3	1	3	4
23	St. Augustine	0	0	0	0	0	1	0	1	1	1	2	6	14	5	11
24	Sanford	4	0	7	3	1	1	2	1	7	18	19	27	33	31	23
25	Kissimmee												15	21	17	18
Statewide Totals		122	96	110	132	111	58	56	117	199	447	779	1,023	1,057	940	954

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 Heroin Occurrences

(Present and Cause)
2005 to 2019



Methamphetamine Deaths

January – December 2019

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 Methamphetamine		
Total	Cause	Present
143	88	55
46	19	27
12	5	7
158	70	88
120	89	31
143	112	31
57	33	24
24	12	12
72	40	32
88	75	13
37	20	17
64	51	13
70	42	28
77	41	36
33	12	21
0	0	0
34	26	8
74	57	17
23	8	15
19	12	7
51	34	17
25	18	7
17	8	9
19	18	1
13	6	7
1,419	896	523

Deaths with Methamphetamine Only		
Total	Cause	Present
1	1	0
8	1	7
1	1	0
0	0	0
3	3	0
4	1	3
1	0	1
2	1	1
6	2	4
4	4	0
0	0	0
4	4	0
5	3	2
7	4	3
0	0	0
0	0	0
5	3	2
3	2	1
1	0	1
0	0	0
0	0	0
0	0	0
1	0	1
0	0	0
1	0	1
57	30	27

Deaths with Methamphetamine in Combination with Other Drugs		
Total	Cause	Present
142	87	55
38	18	20
11	4	7
158	70	88
117	86	31
139	111	28
56	33	23
22	11	11
66	38	28
84	71	13
37	20	17
60	47	13
65	39	26
70	37	33
33	12	21
0	0	0
29	23	6
71	55	16
22	8	14
19	12	7
51	34	17
25	18	7
16	8	8
19	18	1
12	6	6
1,362	866	496

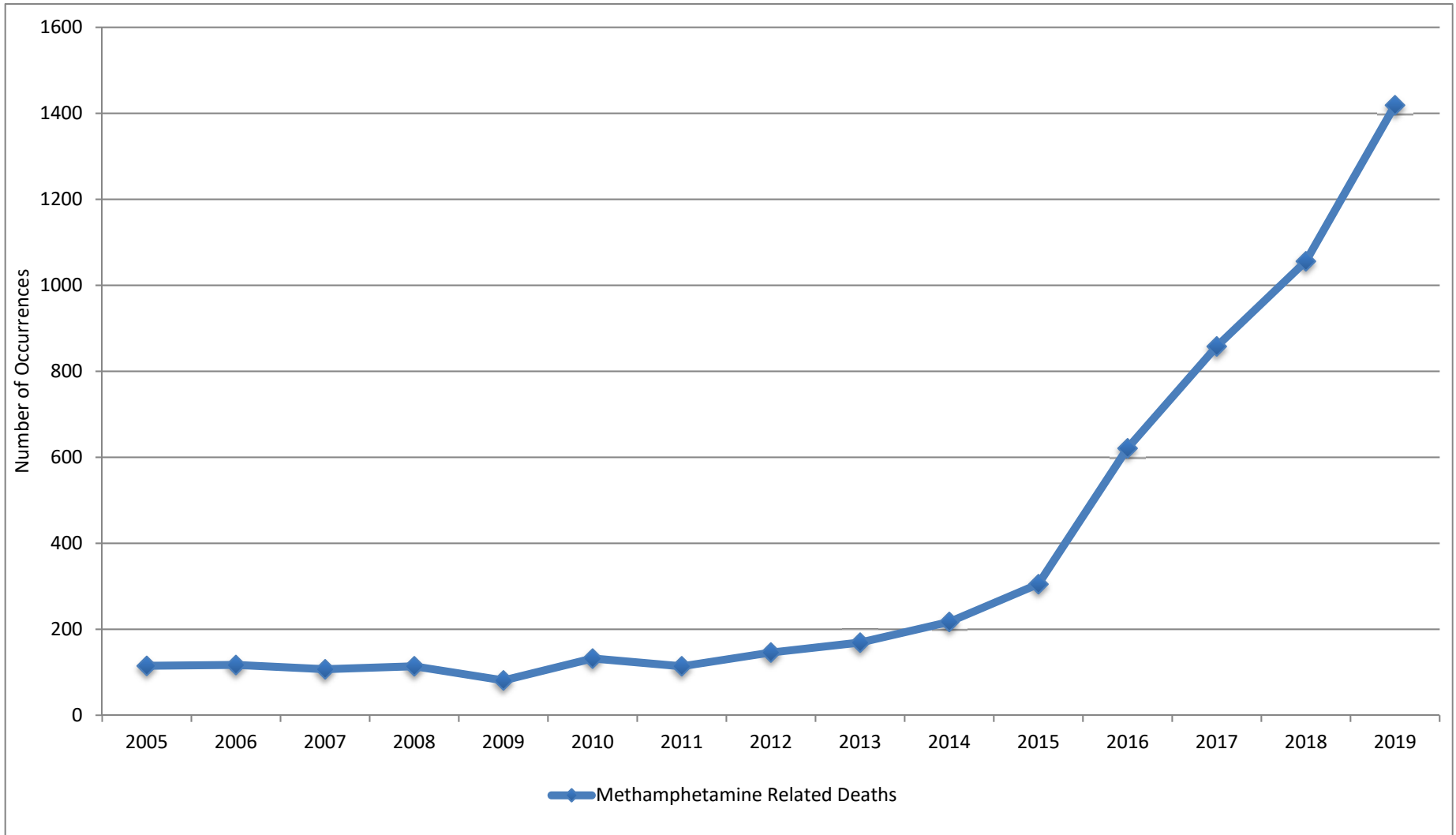
Methamphetamine Deaths by Age January – December 2019

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	143
2	Tallahassee	46
3	Live Oak	12
4	Jacksonville	158
5	Leesburg	120
6	St. Petersburg	143
7	Daytona Beach	57
8	Gainesville	24
9	Orlando	72
10	Lakeland	88
11	Miami	37
12	Sarasota	64
13	Tampa	70
14	Panama City	77
15	West Palm Beach	33
16	Florida Keys	0
17	Ft. Lauderdale	34
18	Melbourne	74
19	Ft. Pierce	23
20	Naples	19
21	Ft. Myers	51
22	Port Charlotte	25
23	St. Augustine	17
24	Sanford	19
25	Kissimmee	13
Statewide Totals		1,419

Methamphetamine Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
88	2	3	14	46	23
19	0	1	5	8	5
5	0	0	3	1	1
70	0	6	12	38	14
89	1	7	25	33	23
112	1	5	29	46	31
33	0	0	7	14	12
12	0	3	3	4	2
40	0	5	9	17	9
75	1	4	17	23	30
20	0	1	5	8	6
51	0	3	15	25	8
42	0	0	13	19	10
41	0	2	8	18	13
12	0	2	2	7	1
0	0	0	0	0	0
26	1	5	3	16	1
57	1	3	16	28	9
8	0	1	2	4	1
12	0	0	3	7	2
34	0	2	10	13	9
18	0	0	6	7	5
8	0	2	1	3	2
18	0	1	7	8	2
6	0	1	1	3	1
896	7	57	216	396	220

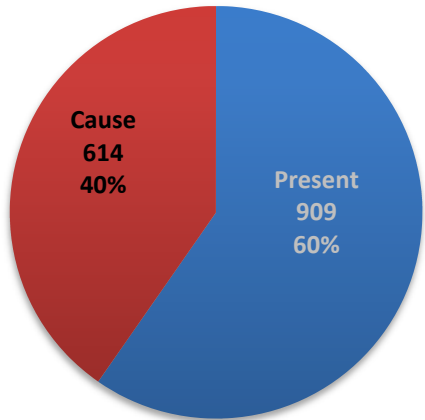
Methamphetamine Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
55	1	6	16	22	10
27	0	3	11	11	2
7	0	0	3	2	2
88	0	12	27	38	11
31	0	6	11	9	5
31	0	0	9	16	6
24	0	0	10	10	4
12	0	0	3	5	4
32	1	4	8	14	5
13	0	2	4	7	0
17	1	3	6	5	2
13	0	0	4	8	1
28	1	3	11	9	4
36	0	0	6	22	8
21	0	3	8	7	3
0	0	0	0	0	0
8	1	0	2	4	1
17	0	1	6	7	3
15	0	3	6	5	1
7	0	0	3	3	1
17	0	1	12	4	0
7	0	0	3	3	1
9	0	0	3	3	3
1	0	0	1	0	0
7	0	0	3	2	2
523	5	47	176	216	79

Historical Overview of Methamphetamine Occurrences (Present and Cause) 2005 to 2019

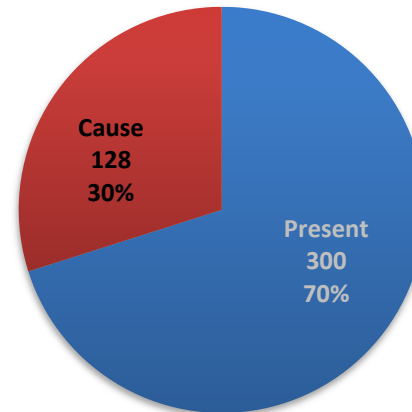


2019 Drug Detected at Death: Cause vs. Present

Alprazolam Deaths
Total Occurrences = 1,523

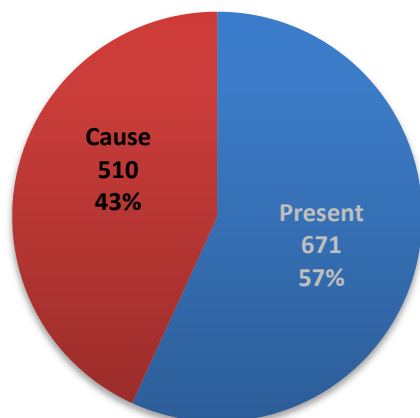


Diazepam Deaths
Total Occurrences = 428

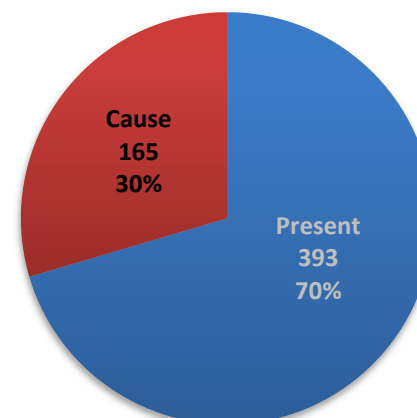


2019 Drug Detected at Death: Cause vs. Present

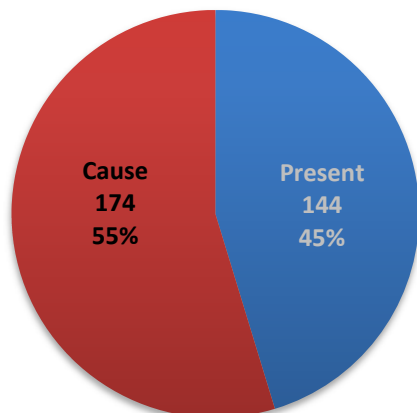
Oxycodone Deaths
Total Occurrences = 1,181



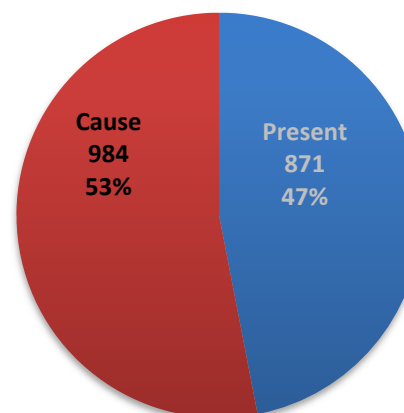
Hydrocodone Deaths
Total Occurrences = 558



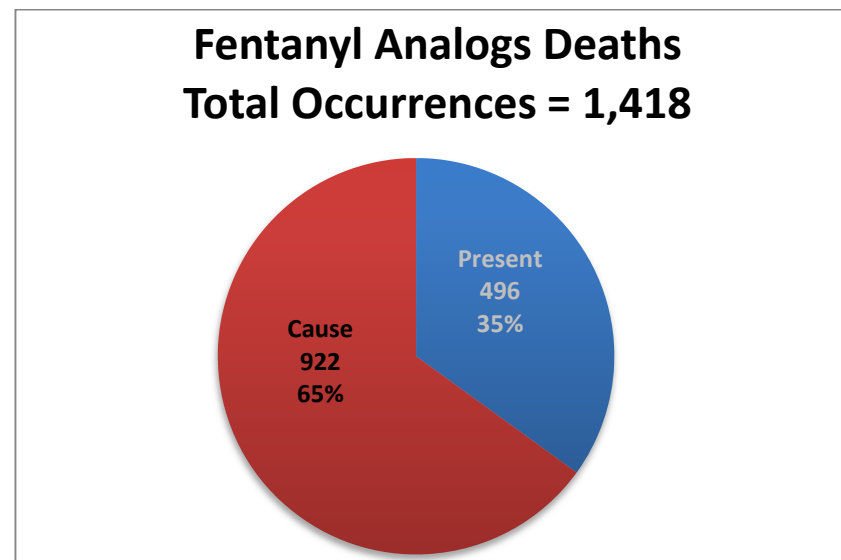
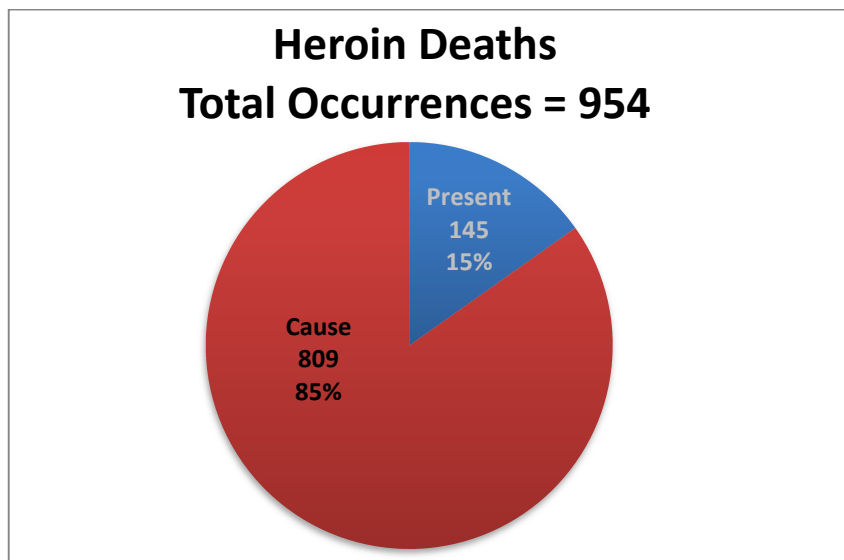
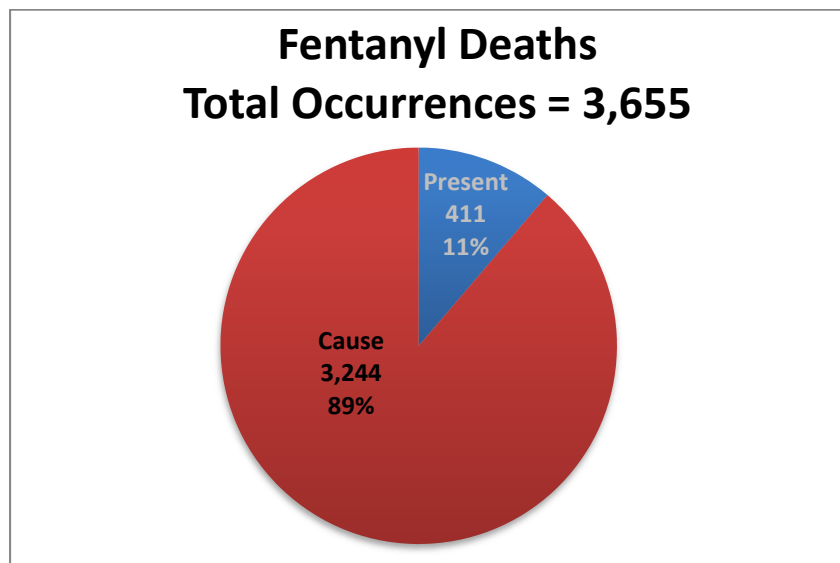
Methadone Deaths
Total Occurrences = 318



Morphine Deaths
Total Occurrences = 1,855

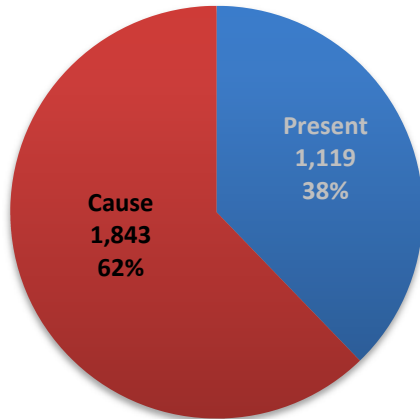


2019 Drug Detected at Death: Cause vs. Present

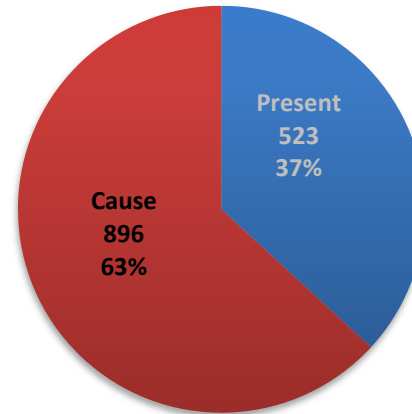


2019 Drug Detected at Death: Cause vs. Present

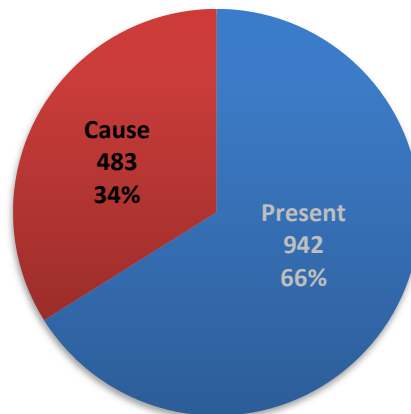
Cocaine Deaths
Total Occurrences = 2,962



Methamphetamine Deaths
Total Occurrences = 1,419

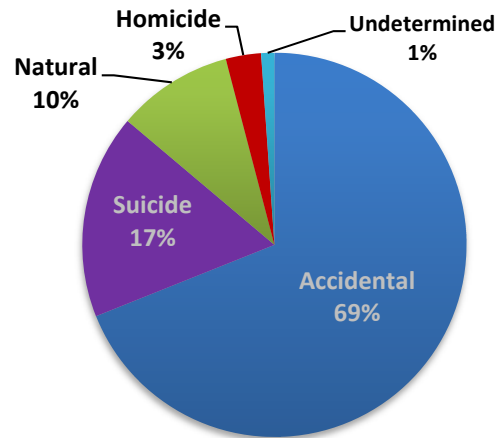


Amphetamine Deaths
Total Occurrences = 1,425

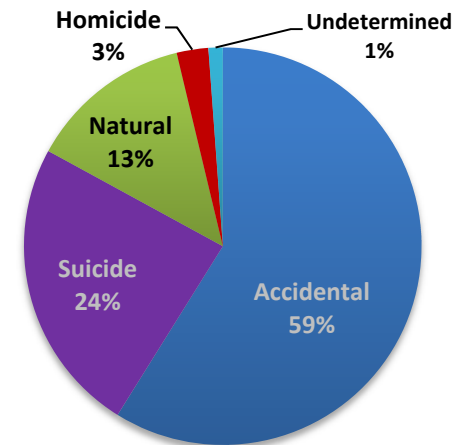


2019 Manner of Death for Reported Drug Occurrences

Alprazolam Deaths

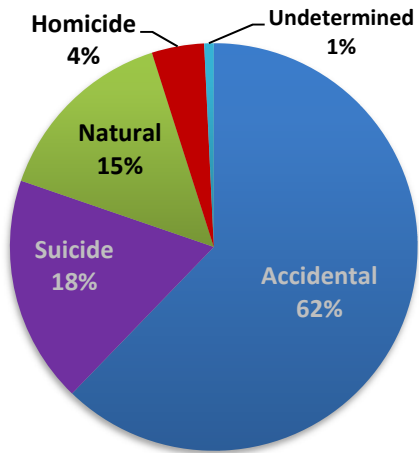


Diazepam Deaths

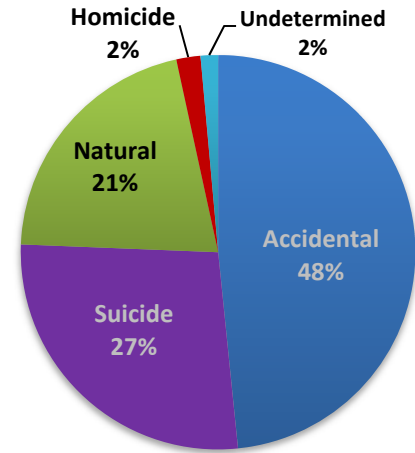


2019 Manner of Death for Reported Drug Occurrences

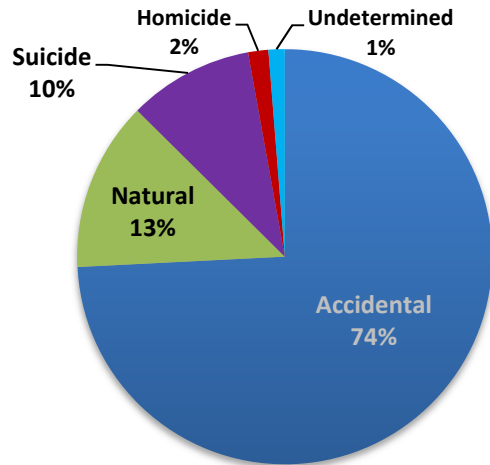
Oxycodone Deaths



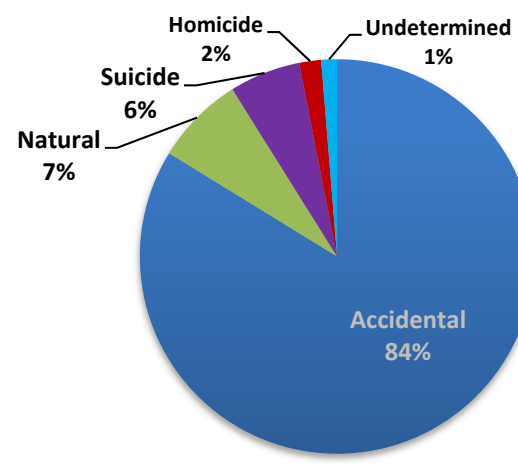
Hydrocodone Deaths



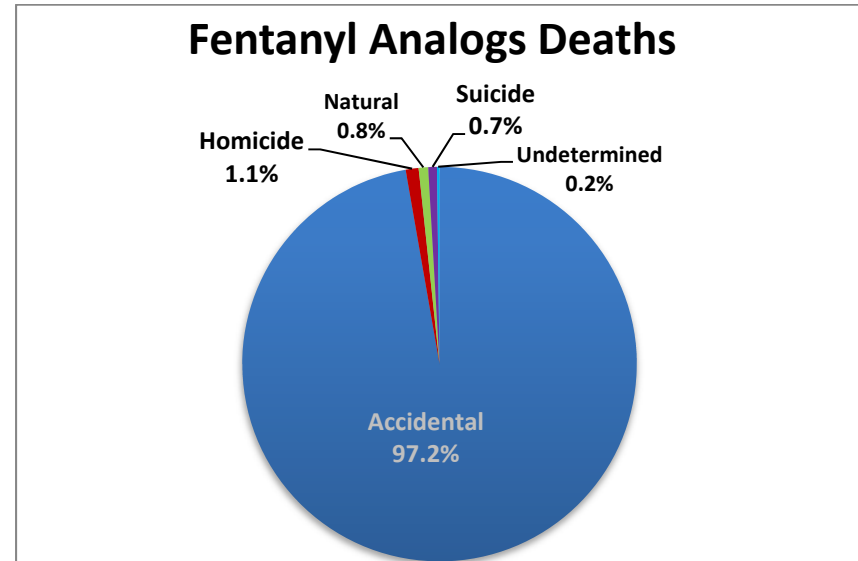
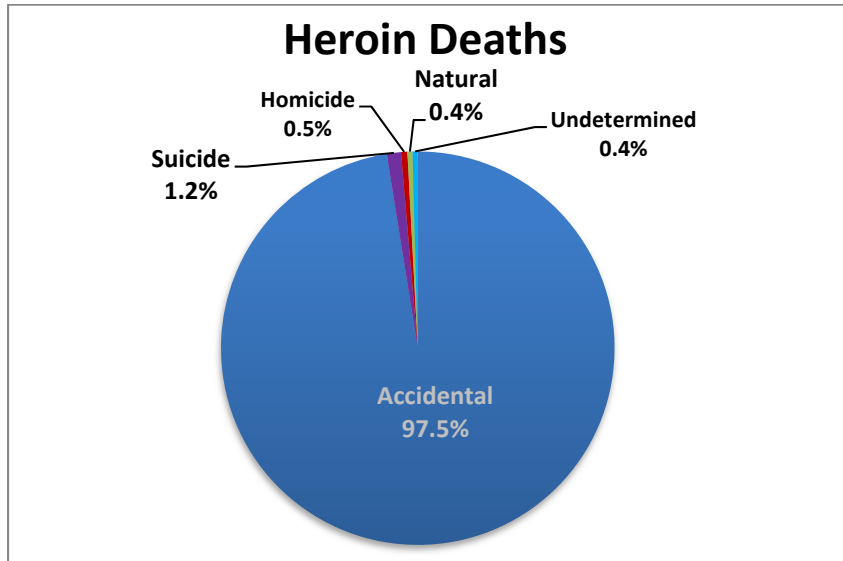
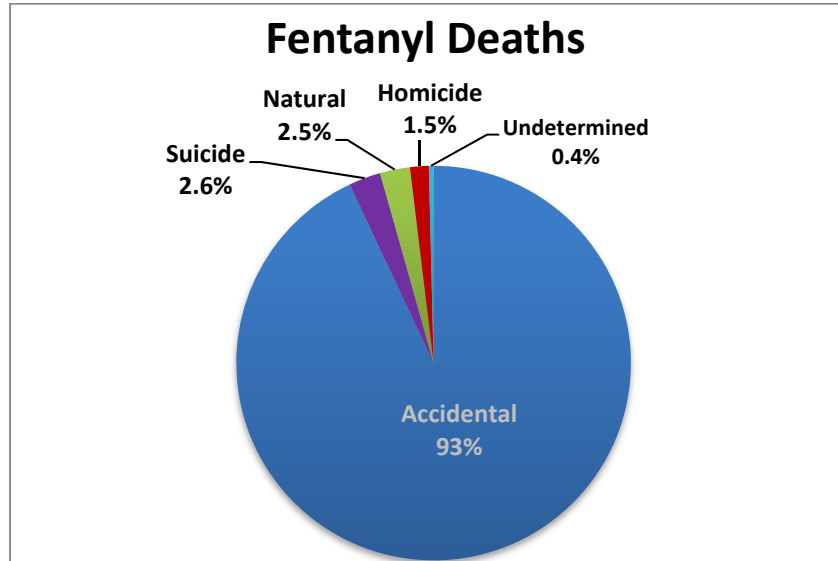
Methadone Deaths



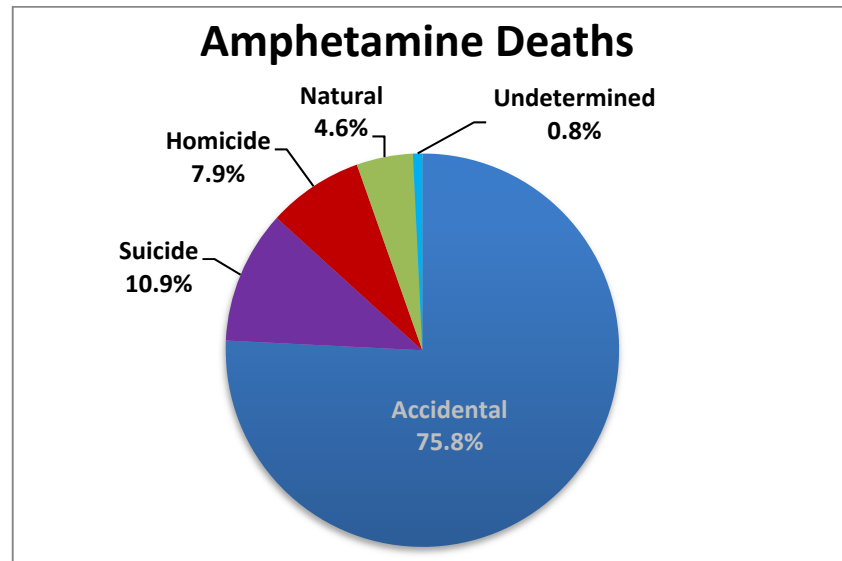
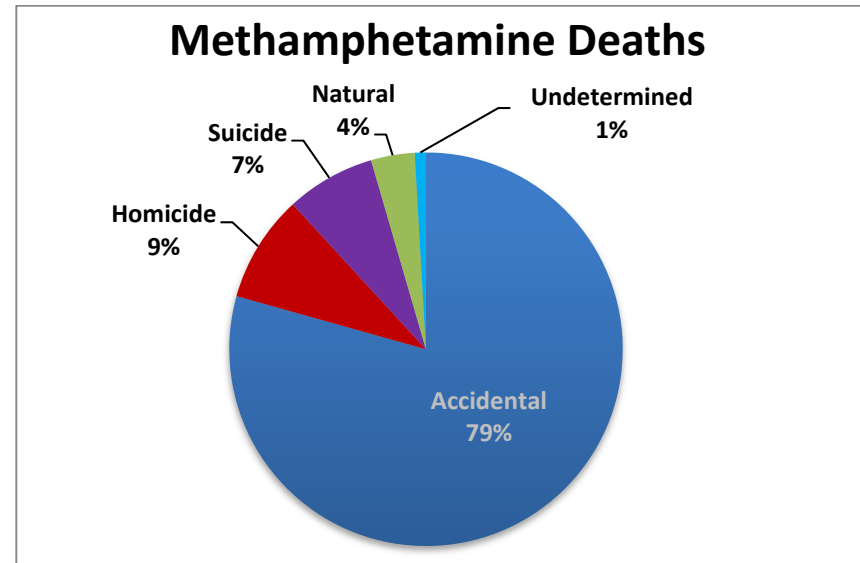
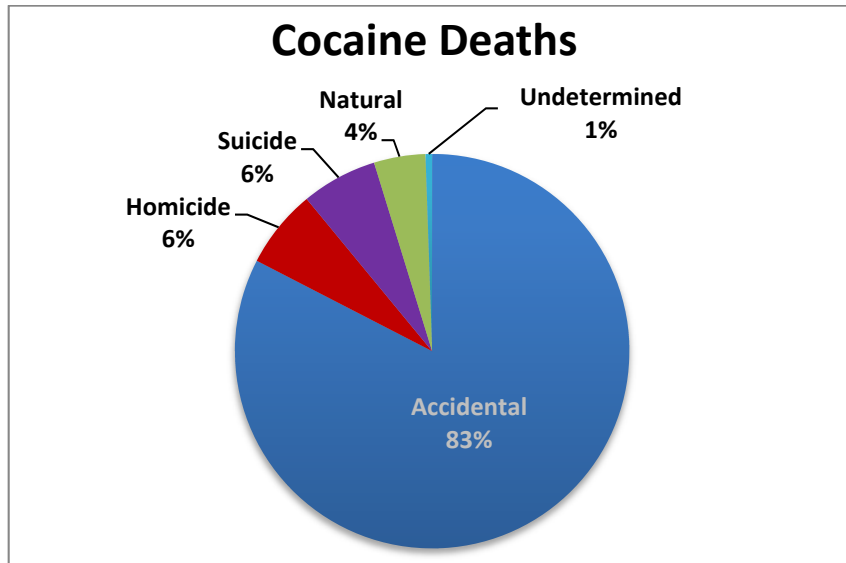
Morphine Deaths



2019 Manner of Death for Reported Drug Occurrences



2019 Manner of Death for Reported Drug Occurrences



Analytes

Below are specific analytes that were identified in the decedents:

Cathinones

- N-Ethylpentylone
- Alpha-PiHP
- Dibutylone
- Butylone
- N-butylpentylone
- Methylone
- N-Dimethylpentylone
- 3,4 – Methylenedioxy-n-benzylcathinone
- Eutylone
- Ethylone

Synthetic Cannabinoids

- 5F-ADB 3,3-Dimethyl-Butanoic Acid
- FUB-AMB 3-Methyl-Butanoic Acid / MMB-FUBINACA
- 5-Fluoro-ADB
- 5-Fluoro-MDMB-Pinaca / 5-Fluoro-EMB-Pinaca
- 5F-ADB-Butanoic Acid
- ADB-FUBINACA
- 4F-MDMB-BINACA
- 5F-ADB
- MMB2201 / 5F-MDMB-PICA
- FUB-AMB

Phenethylamines/Piperazines

- 3,4-Methylenedioxyamphetamine
- 3,4-Methylenedioxymethamphetamine
- Ethylamphetamine
- Chlorophenylpiperazine

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 MDMA and the amphetamine family of drugs, which includes amphetamine and methamphetamine.

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.

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 most fentanyl occurrences represent the ingestion of illicit fentanyl rather than pharmaceutically manufactured fentanyl.

Glossary (Continued)

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 “Molly,” “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, especially refrigerants such as difluoroethane, which is a component of “compressed air” electronics cleaners; these and similar halogenated substances are 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.”

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.

Glossary (Continued)

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.

Mitragynine – An alkaloid found in the Kratom plant, which is consumed for its stimulant and analgesic (opioid-like) effects. The leaves of the Kratom plant, either whole or crushed, are smoked, chewed or prepared as tea. In addition, plant extract containing mitragynine is available in tablets and capsules.

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. Oxycodone is metabolized to oxymorphone, and thus, occurrences of oxymorphone may represent oxycodone ingestion rather than oxymorphone ingestion.

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."

Glossary (Continued)

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.

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.