Drugs Identified in Deceased Persons by Florida Medical Examiners

2017 Annual Report

FLORIDA DEPARTMENT OF LAW ENFORCEMENT

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Data Collection

The State of Florida's Bureau of Vital Statistics reported 206,168 deaths in Florida during 2017. Of the 28,031 deaths investigated by Florida's medical examiners, toxicology results determined that the drugs listed below were present at the time of death in 12,439 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 12,439 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:

Amphetamines
- Amphetamine
- Methamphetamine

Benzodiazepines
- Alprazolam
- Chlordiazepoxide
- Clonazepam
- Diazepam
- Estazolam
- Flunitrazepam
- Flurazepam
- Lorazepam
- Midazolam
- Nordiazepam
- Oxazepam
- Temazepam
- Triazolam

Ethanol
- Ethyl Alcohol

Hallucinogenics
- Phencyclidine (PCP)
- PCP Analogs
- Phenethylamines/ Piperazines
- Tryptamines

Inhalants
- Halogenated
- Helium
- Hydrocarbon
- Nitrous Oxide

Opioids
- Buprenorphine
- Codeine
- Fentanyl
- Fentanyl Analogs
- Heroin
- Hydrocodone
- Hydromorphone
- Meperidine
- Methadone
- Morphine
- Oxycodone
- Oxymorphone
- Tramadol

Other
- Cannabinoids
- Carisoprodol/ Meprobamate
- Cathinones
- Cocaine
- GHB
- Ketamine
- Sympathomimetic Amines
- Synthetic Cannabinoids
- Zolpidem

Highlights

All comparisons are made to 2016 calendar year data unless otherwise noted.

- ✓ Total drug-related deaths increased by 4 percent (529 more).
- ✓ 6,178 opioid-related deaths were reported, which is an 8 percent increase (453 more). The opioids were identified as either the cause of death or merely present in the decedent.
- ✓ 4,280 opioid-caused deaths were reported, which is a 9 percent increase (358 more).
- ✓ 6,932 (4 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.
- ✓ 3,684 (4 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 58 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 seven most frequently occurring drugs found in decedents were ethyl alcohol (5,258), benzodiazepines (5,064, including 1,889 alprazolam occurrences), cocaine (3,129), cannabinoids (2,367), fentanyl (2,088), morphine (1,992), and fentanyl analogs (1,685). 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 (2,012), fentanyl (1,743), fentanyl analogs (1,588), benzodiazepines (1,374, including 791 alprazolam deaths), morphine (1,285), ethyl alcohol (975), and heroin (944). Fentanyl analogs (94 percent), heroin (89 percent), fentanyl (84 percent), morphine (65 percent), and cocaine (64 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 3 percent (34 more) and deaths caused by heroin decreased by 1 percent (8 less).
- ✓ Occurrences of fentanyl increased by 27 percent (444 more) and deaths caused by fentanyl increased by 25 percent (353 more).
- ✓ Occurrences of fentanyl analogs increased by 64 percent (659 more) and deaths caused by fentanyl analogs increased by 65 percent (623 more).
- ✓ Occurrences of methadone decreased by 16 percent (79 less) and deaths caused by methadone decreased by 25 percent (83 less).
- ✓ Occurrences of hydrocodone increased by 6 percent (40 more) and deaths caused by hydrocodone decreased by 8 percent (19 less).
- ✓ Occurrences of oxycodone decreased by 7 percent (100 less) and deaths caused by oxycodone also decreased by 16 percent (113 less).

Highlights (continued)

- ✓ Occurrences of buprenorphine increased by 19 percent (26 more) and deaths caused by buprenorphine also increased by 19 percent (6 more).
- ✓ Occurrences of cocaine increased by 9 percent (247 more) and deaths caused by cocaine increased by 14 percent (243 more).
- ✓ Alprazolam (Xanax), diazepam (Valium), and nordiazepam dominate the category of benzodiazepines. Occurrences of alprazolam increased by 2 percent, diazepam decreased by 9 percent, and nordiazepam decreased by 10 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 increased by 38 percent (237 more) and deaths caused by methamphetamine increased by 42 percent (137 more). Occurrences of amphetamine increased by 33 percent (214 more) and deaths caused by amphetamine increased by 29 percent (57 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 increased by 79 percent (81 more) and deaths caused by cathinones increased by 104 percent (51 more). The majority of the cathinones reported were N-Ethylpentylone.
- ✓ Occurrences of synthetic cannabinoids increased by 245 percent (54 more) and deaths caused by synthetic cannabinoids increased by 306 percent (52 more). The increase in synthetic cannabinoid occurrences is due, in part, to increased testing. The majority of the synthetic cannabinoids reported were 5F-ADB.
- ✓ Reporting of occurrences of U-47700 was not specifically requested by the Commission in 2017. 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 132 occurrences of U-47700 were reported for 2017. Reporting of U-47700 by all districts will begin with the 2018 Drugs Identified in Deceased Persons Reports.

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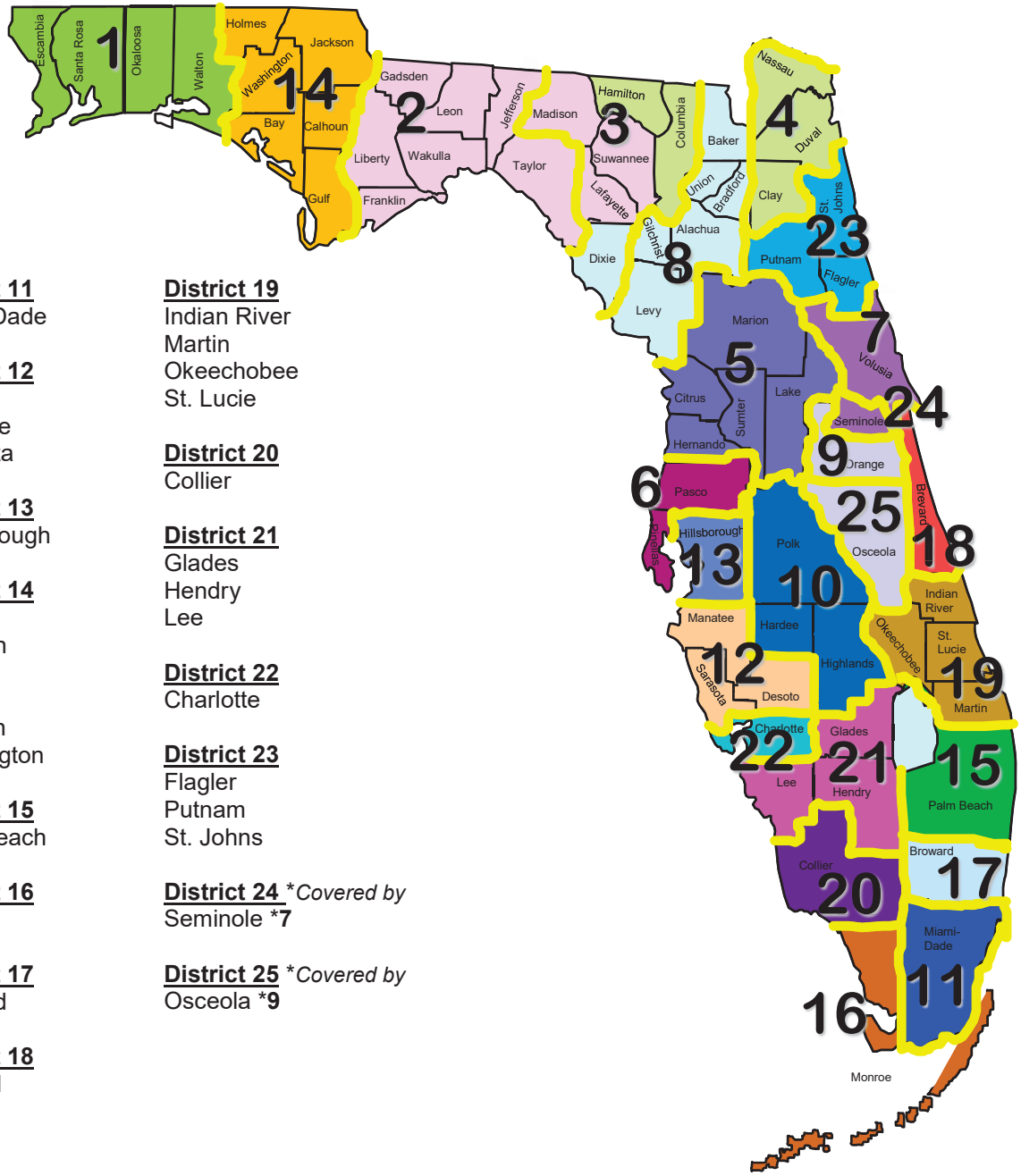
Coverage Map

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 *7

District 25 *Covered by
Osceola *9

Summary of Drug Occurrences in Decedents
2017

	Drug Present in Body	Cause	Present	Total Occurrences
Amphetamines	Amphetamine	256	598	854
	Methamphetamine	464	394	858
Benzodiazepines	Alprazolam	791	1,098	1,889
	Chlordiazepoxide	18	79	97
	Clonazepam	106	437	543
	Diazepam	178	429	607
	Estazolam	2	2	4
	Flunitrazepam	1	0	1
	Flurazepam	1	5	6
	Lorazepam	40	262	302
	Midazolam	4	177	181
	Nordiazepam	109	529	638
	Oxazepam	39	296	335
	Temazepam	83	374	457
	Triazolam	2	2	4
Ethanol		975	4,283	5,258
Hallucinogenics	Phencyclidine (PCP)	2	1	3
	PCP Analogs	2	0	2
	Phenethylamines/Piperazines	18	18	36
	Tryptamines	1	3	4

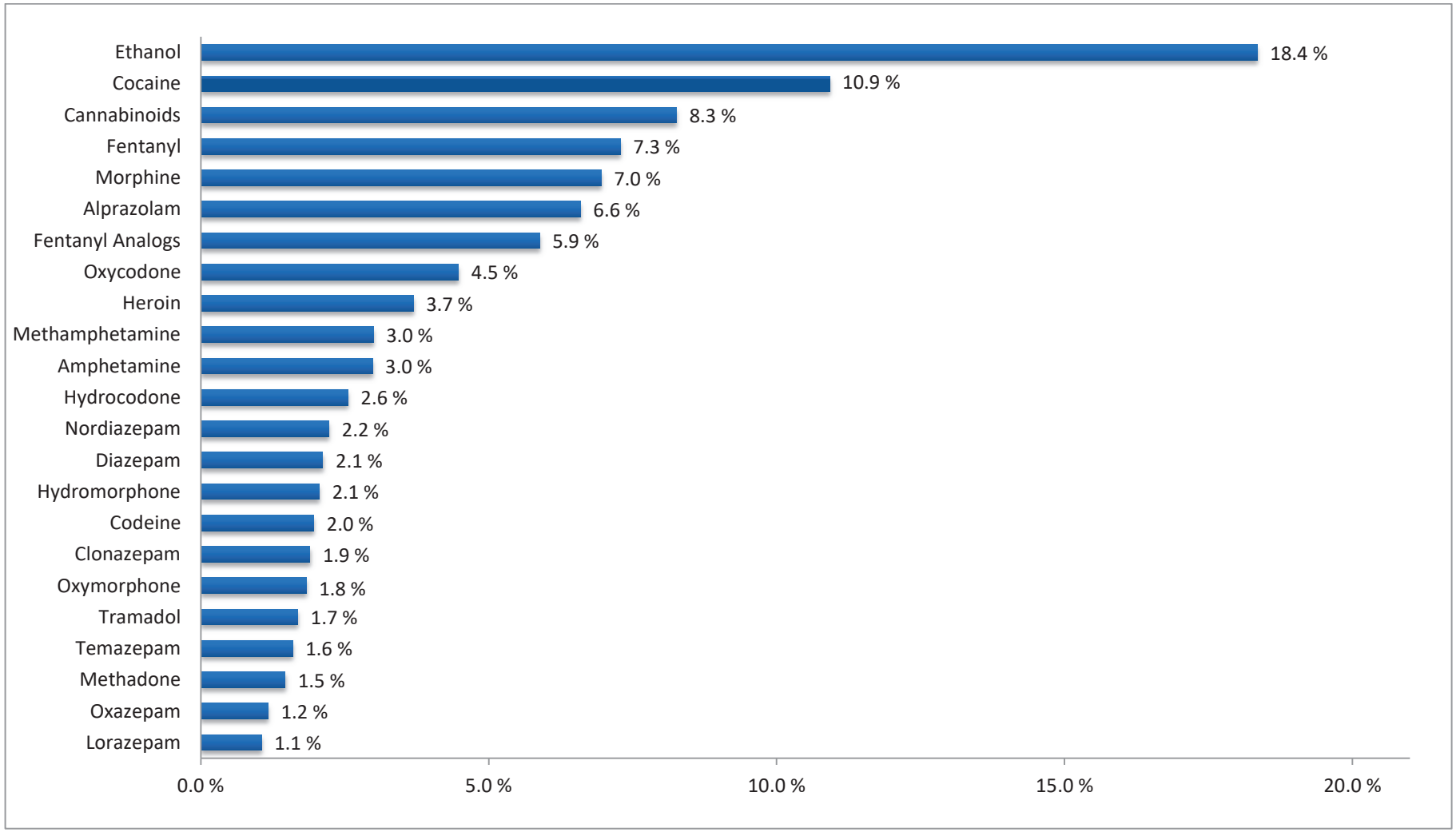
Summary of Drug Occurrences in Decedents (continued)

	Drug Present in Body	Cause	Present	Total Occurrences
Inhalants	Halogenated	52	2	54
	Helium	11	1	12
	Hydrocarbon	2	0	2
	Nitrous Oxide	0	0	0
Opioids	Buprenorphine	38	123	161
	Codeine	69	493	562
	Fentanyl	1,743	345	2,088
	Fentanyl Analogs	1,588	97	1,685
	Heroin	944	113	1,057
	Hydrocodone	226	506	732
	Hydromorphone	175	414	589
	Meperidine	2	18	20
	Methadone	247	173	420
	Morphine	1,285	707	1,992
	Oxycodone	610	672	1,282
	Oxymorphone	107	419	526
	Tramadol	102	381	483
Other	Cannabinoids	7	2,360	2,367
	Carisoprodol/Meprobamate	23	86	109
	Cathinones	100	83	183
	Cocaine	2,012	1,117	3,129
	GHB	4	2	6
	Ketamine	12	102	114
	Sympathomimetic Amines	6	23	29
	Synthetic Cannabinoids	69	7	76
	Zolpidem	55	160	215

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 Decedents[1]

January – December 2017



[1]*Drugs 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
2016 to 2017

	Drug Present in Body	2016	2017	Percentage Change
Amphetamines	Amphetamine	640	854	33.4%
	Methamphetamine	621	858	38.2%
Benzodiazepines	Alprazolam	1,851	1,889	2.1%
	Chlordiazepoxide	100	97	-3.0%
	Clonazepam	546	543	-0.5%
	Diazepam	664	607	-8.6%
	Estazolam	4	4	*
	Flunitrazepam	0	1	*
	Flurazepam	6	6	*
	Lorazepam	241	302	25.3%
	Midazolam	164	181	10.4%
	Nordiazepam	709	638	-10.0%
	Oxazepam	363	335	-7.7%
	Temazepam	511	457	-10.6%
	Triazolam	8	4	*
Ethanol		5,318	5,258	-1.1%
Hallucinogenics	Phencyclidine (PCP)	0	3	*
	PCP Analogs	2	2	*
	Phenethylamines/Piperazines	46	36	-21.7%
	Tryptamines	1	4	*

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

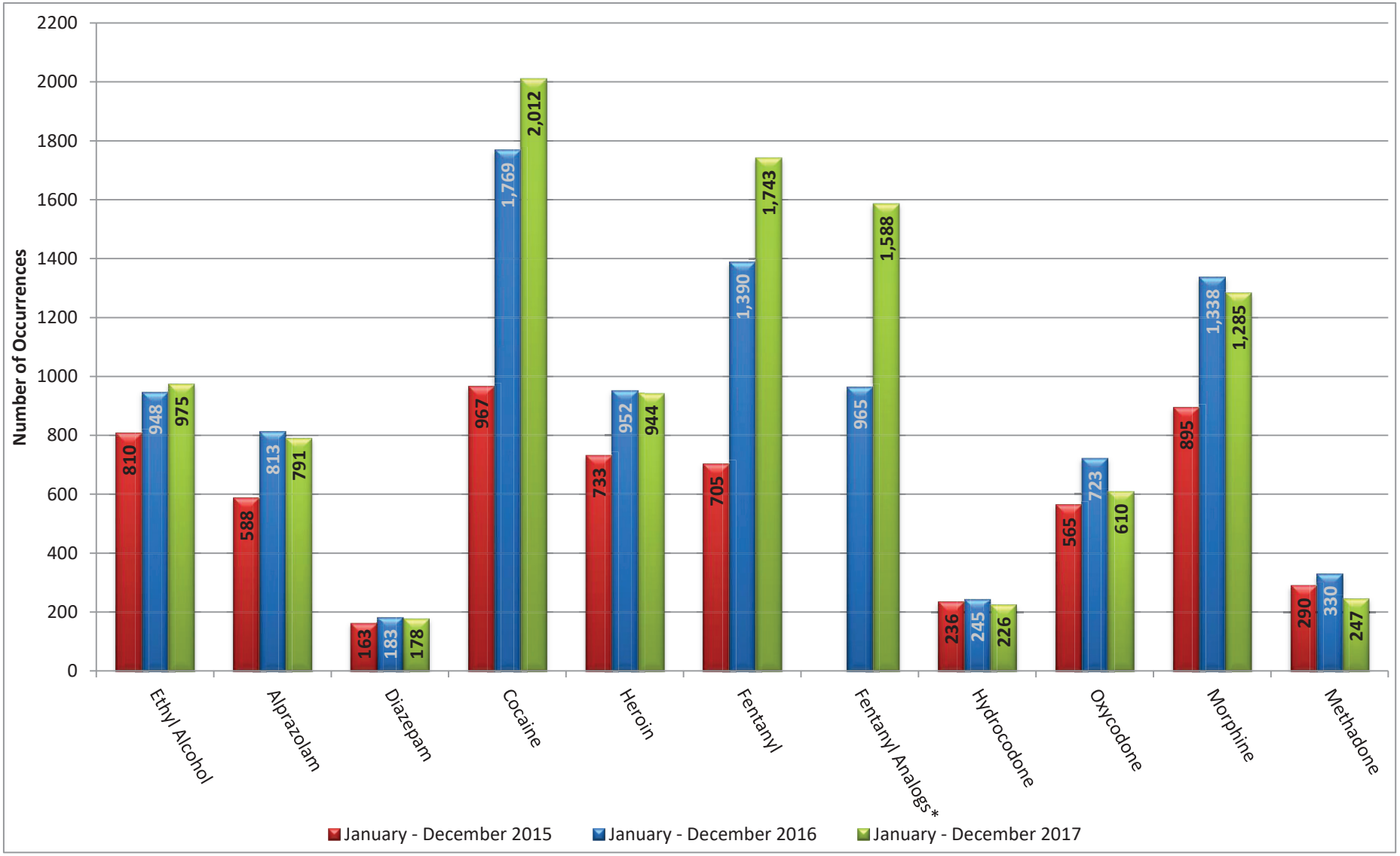
Note: Many deaths were found to have several drugs contributing to the death; therefore, the count of specific drugs listed is greater than the number of deaths.

Comparison of Drug Occurrences in Decedents (continued)

	Drug Present In Body	2016	2017	Percentage Change
Inhalants	Halogenated	50	54	8.0%
	Helium	13	12	*
	Hydrocarbon	1	2	*
	Nitrous Oxide	1	0	*
Opioids	Buprenorphine	135	161	19.3%
	Codeine	507	562	10.8%
	Fentanyl	1,644	2,088	27.0%
	Fentanyl Analogs	1,026	1,685	64.2%
	Heroin	1,023	1,057	3.3%
	Hydrocodone	692	732	5.8%
	Hydromorphone	595	589	-1.0%
	Meperidine	6	20	*
	Methadone	499	420	-15.8%
	Morphine	2,040	1,992	-2.4%
	Oxycodone	1,382	1,282	-7.2%
	Oxymorphone	562	526	-6.4%
	Tramadol	510	483	-5.3%
Other	Cannabinoids	2,292	2,367	3.3%
	Carisoprodol/Meprobamate	123	109	-11.4%
	Cathinones	102	183	79.4%
	Cocaine	2,882	3,129	8.6%
	GHB	4	6	*
	Ketamine	88	114	29.5%[1]
	Sympathomimetic Amines	25	29	*
	Synthetic Cannabinoids	22	76	245.5%[2]
	Zolpidem	248	215	-13.3%

**Due to the small number of occurrences, percent changes were not calculated.*
[1]The increase in ketamine occurrences is largely due to the clinical use of ketamine as a sedative and anesthetic in the hospital.
[2]The increase in synthetic cannabinoids is due, in part, to increased testing.
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.

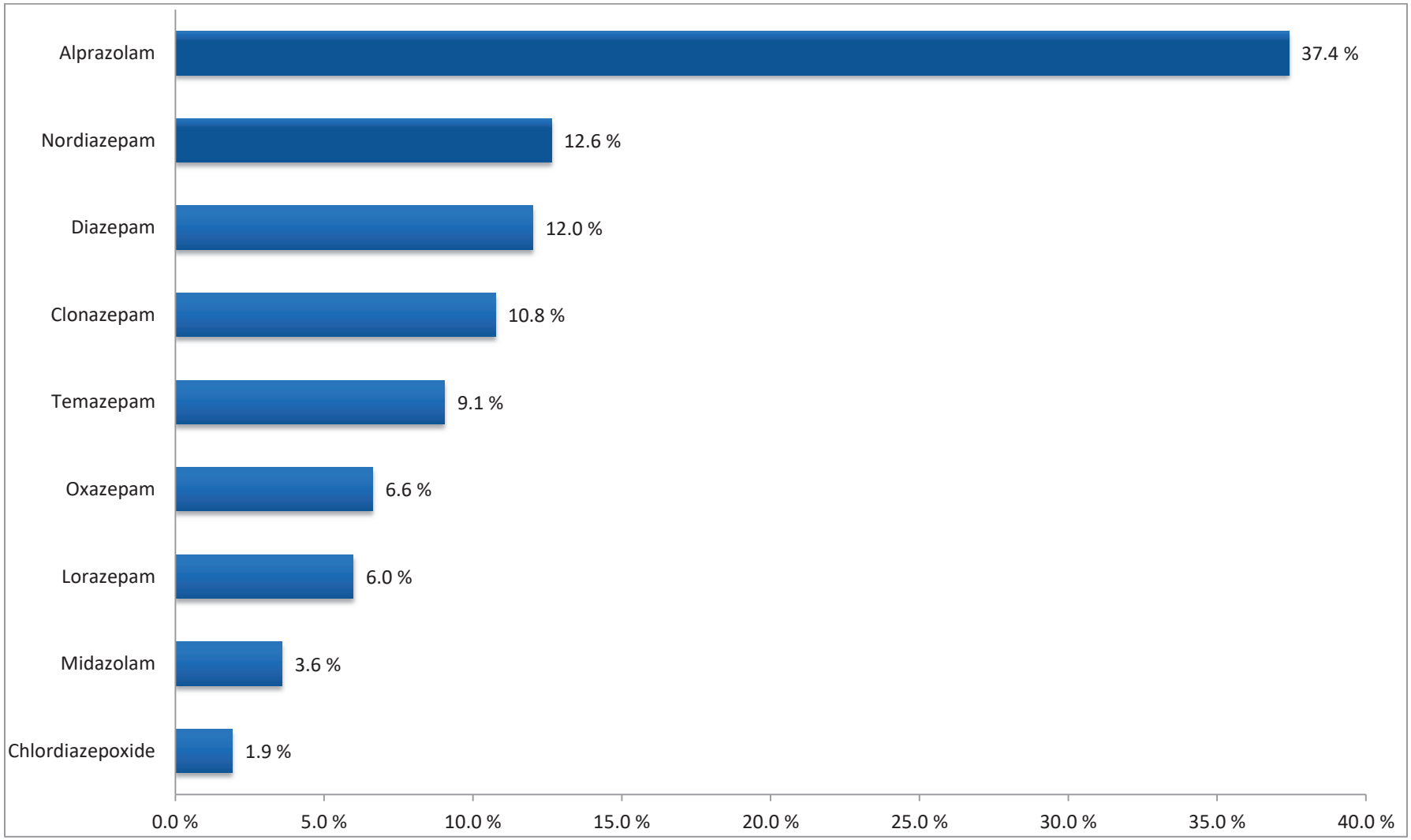
Comparison of Drug Caused Deaths
2015 to 2017



Note: Not all drugs are included in the above chart.
**Reporting of fentanyl analogs by all districts began in 2016.*

Frequency of Occurrence of Benzodiazepines

January – December 2017



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 2017

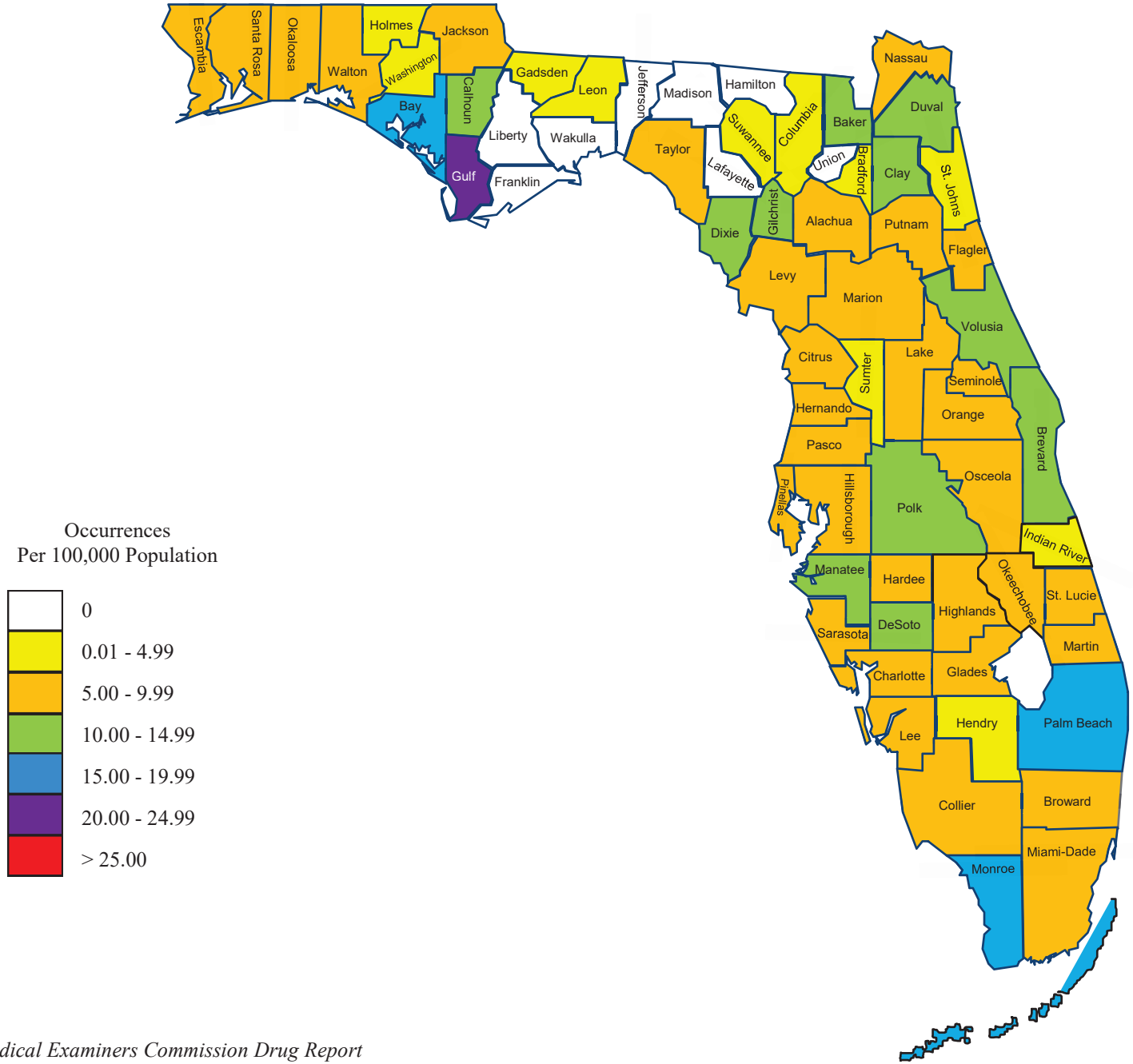
Medical Examiner District and Area of Florida		Total Deaths with Alprazolam			Deaths with Alprazolam Only			Deaths with Alprazolam in Combination with Other Drugs		
District	Area of Florida	Total	Cause	Present	Total	Cause	Present	Total	Cause	Present
1	Pensacola	55	36	19	4	1	3	51	35	16
2	Tallahassee	7	7	0	0	0	0	7	7	0
3	Live Oak	4	2	2	1	1	0	3	1	2
4	Jacksonville	171	59	112	5	0	5	166	59	107
5	Leesburg	77	19	58	2	1	1	75	18	57
6	St. Petersburg	128	58	70	6	2	4	122	56	66
7	Daytona Beach	63	15	48	3	0	3	60	15	45
8	Gainesville	26	14	12	3	0	3	23	14	9
9	Orlando	105	41	64	9	3	6	96	38	58
10	Lakeland	81	34	47	11	1	10	70	33	37
11	Miami	232	82	150	20	0	20	212	82	130
12	Sarasota	92	42	50	11	2	9	81	40	41
13	Tampa	88	47	41	7	0	7	81	47	34
14	Panama City	38	6	32	4	0	4	34	6	28
15	West Palm Beach	238	101	137	14	4	10	224	97	127
16	Florida Keys	15	7	8	0	0	0	15	7	8
17	Ft. Lauderdale	162	111	51	4	2	2	158	109	49
18	Melbourne	84	37	47	11	1	10	73	36	37
19	Ft. Pierce	38	3	35	2	0	2	36	3	33
20	Naples	35	10	25	1	0	1	34	10	24
21	Ft. Myers	65	30	35	2	0	2	63	30	33
22	Port Charlotte	13	1	12	1	0	1	12	1	11
23	St. Augustine	19	10	9	1	0	1	18	10	8
24	Sanford	29	8	21	0	0	0	29	8	21
25	Kissimmee	24	11	13	1	0	1	23	11	12
Statewide Totals		**1,889**	**791**	**1,098**	**123**	**18**	**105**	**1,766**	**773**	**993**

Alprazolam Deaths by Age

January – December 2017

Medical Examiner District and Area of Florida			Alprazolam Caused Death						Alprazolam Present at Death					
			Age of Decedent						*Age of Decedent*					
District	Area of Florida	Total	Total	<18	18-25	26-34	35-50	>50	Total	<18	18-25	26-34	35-50	>50
1	Pensacola	55	36	0	4	9	14	9	19	0	2	7	3	7
2	Tallahassee	7	7	0	0	3	1	3	0	0	0	0	0	0
3	Live Oak	4	2	0	0	0	1	1	2	1	0	0	1	0
4	Jacksonville	171	59	0	8	13	19	19	112	2	9	31	33	37
5	Leesburg	77	19	0	3	4	7	5	58	0	5	9	21	23
6	St. Petersburg	128	58	0	7	12	21	18	70	1	9	12	18	30
7	Daytona Beach	63	15	0	0	1	7	7	48	0	5	11	22	10
8	Gainesville	26	14	0	1	2	8	3	12	0	0	2	4	6
9	Orlando	105	41	0	5	12	15	9	64	0	5	8	22	29
10	Lakeland	81	34	0	0	4	11	19	47	0	7	4	14	22
11	Miami	232	82	1	16	14	26	25	150	1	18	37	35	59
12	Sarasota	92	42	0	1	8	22	11	50	0	2	1	20	27
13	Tampa	88	47	1	7	9	11	19	41	0	3	7	8	23
14	Panama City	38	6	0	0	2	3	1	32	0	3	8	10	11
15	West Palm Beach	238	101	0	8	32	31	30	137	1	16	37	38	45
16	Florida Keys	15	7	0	1	1	3	2	8	0	0	2	1	5
17	Ft. Lauderdale	162	111	0	11	41	33	26	51	1	7	9	17	17
18	Melbourne	84	37	1	1	8	16	11	47	1	4	8	14	20
19	Ft. Pierce	38	3	0	0	0	1	2	35	0	0	6	12	17
20	Naples	35	10	0	1	1	1	7	25	0	4	4	5	12
21	Ft. Myers	65	30	0	5	9	6	10	35	0	5	11	8	11
22	Port Charlotte	13	1	0	0	0	0	1	12	0	0	1	4	7
23	St. Augustine	19	10	0	1	4	3	2	9	0	0	4	4	1
24	Sanford	29	8	0	1	2	3	2	21	0	1	6	9	5
25	Kissimmee	24	11	0	3	3	4	1	13	0	2	0	5	6
Statewide Totals		**1,889**	**791**	**3**	**84**	**194**	**267**	**243**	**1,098**	**8**	**107**	**225**	**328**	**430**

Alprazolam Deaths by County
2017



Diazepam Deaths

January – December 2017

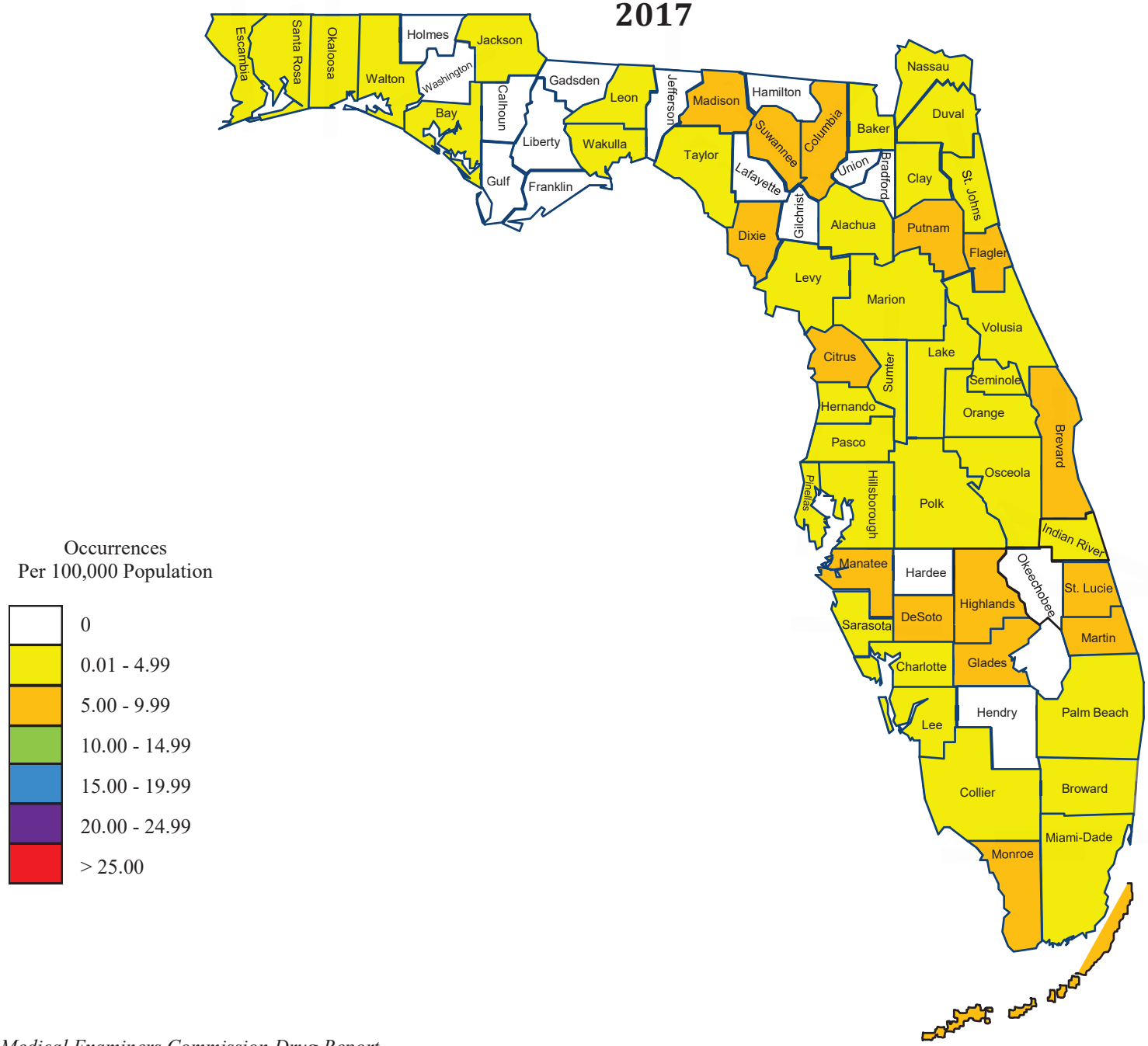
Medical Examiner District and Area of Florida		Total Deaths with Diazepam			Deaths with Diazepam Only			Deaths with Diazepam in Combination with Other Drugs		
District	Area of Florida	Total	Cause	Present	Total	Cause	Present	Total	Cause	Present
1	Pensacola	13	6	7	0	0	0	13	6	7
2	Tallahassee	6	1	5	0	0	0	6	1	5
3	Live Oak	9	2	7	1	0	1	8	2	6
4	Jacksonville	43	13	30	1	0	1	42	13	29
5	Leesburg	33	0	33	0	0	0	33	0	33
6	St. Petersburg	58	32	26	1	0	1	57	32	25
7	Daytona Beach	20	4	16	0	0	0	20	4	16
8	Gainesville	9	2	7	0	0	0	9	2	7
9	Orlando	27	0	27	0	0	0	27	0	27
10	Lakeland	18	7	11	0	0	0	18	7	11
11	Miami	55	12	43	8	0	8	47	12	35
12	Sarasota	38	10	28	1	0	1	37	10	27
13	Tampa	31	19	12	0	0	0	31	19	12
14	Panama City	5	3	2	0	0	0	5	3	2
15	West Palm Beach	53	17	36	1	1	0	52	16	36
16	Florida Keys	6	1	5	0	0	0	6	1	5
17	Ft. Lauderdale	34	17	17	3	0	3	31	17	14
18	Melbourne	38	7	31	2	0	2	36	7	29
19	Ft. Pierce	37	1	36	2	1	1	35	0	35
20	Naples	16	2	14	1	0	1	15	2	13
21	Ft. Myers	25	10	15	0	0	0	25	10	15
22	Port Charlotte	1	0	1	0	0	0	1	0	1
23	St. Augustine	17	7	10	0	0	0	17	7	10
24	Sanford	9	2	7	0	0	0	9	2	7
25	Kissimmee	6	3	3	0	0	0	6	3	3
Statewide Totals		**607**	**178**	**429**	**21**	**2**	**19**	**586**	**176**	**410**

Diazepam Deaths by Age

January – December 2017

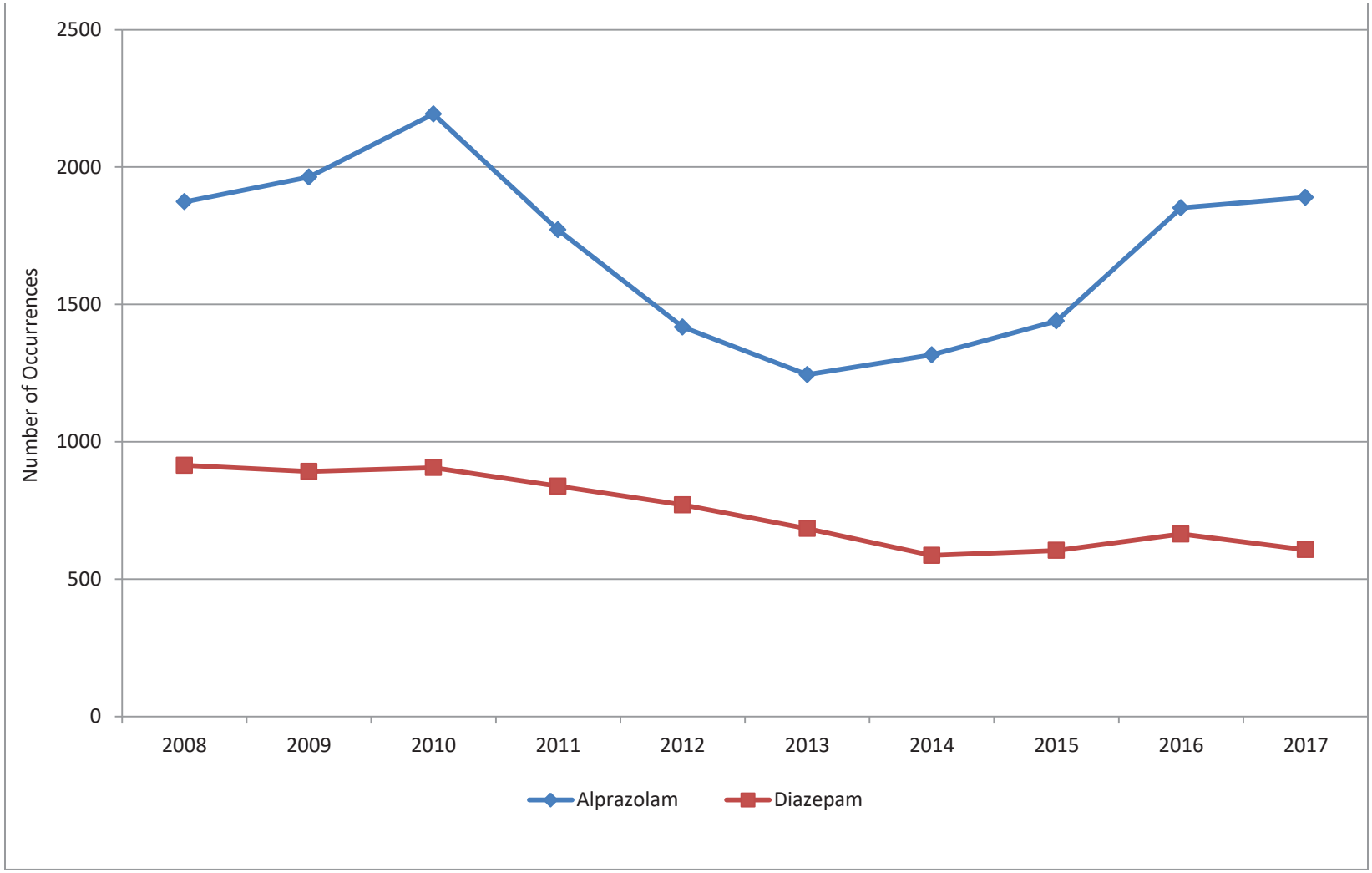
Medical Examiner District and Area of Florida			Diazepam Caused Death						Diazepam Present at Death					
			Age of Decedent						*Age of Decedent*					
District	Area of Florida	Total	Total	< 18	18-25	26-34	35-50	>50	Total	<18	18-25	26-34	35-50	>50
1	Pensacola	13	6	0	0	2	1	3	7	0	0	1	1	5
2	Tallahassee	6	1	0	0	0	1	0	5	0	0	0	1	4
3	Live Oak	9	2	0	0	0	1	1	7	0	1	1	1	4
4	Jacksonville	43	13	0	0	1	2	10	30	0	1	5	11	13
5	Leesburg	33	0	0	0	0	0	0	33	0	1	4	9	19
6	St. Petersburg	58	32	0	0	5	9	18	26	1	4	2	4	15
7	Daytona Beach	20	4	0	0	1	0	3	16	0	0	5	4	7
8	Gainesville	9	2	0	0	0	2	0	7	0	0	0	2	5
9	Orlando	27	0	0	0	0	0	0	27	1	0	2	8	16
10	Lakeland	18	7	0	0	0	1	6	11	0	1	1	2	7
11	Miami	55	12	0	0	2	6	4	43	0	2	6	9	26
12	Sarasota	38	10	0	1	2	4	3	28	0	1	6	4	17
13	Tampa	31	19	0	2	2	5	10	12	1	0	0	4	7
14	Panama City	5	3	0	0	0	2	1	2	0	1	0	1	0
15	West Palm Beach	53	17	0	1	3	4	9	36	0	3	9	9	15
16	Florida Keys	6	1	0	0	0	1	0	5	0	0	2	0	3
17	Ft. Lauderdale	34	17	0	0	6	5	6	17	1	1	4	5	6
18	Melbourne	38	7	0	0	1	2	4	31	0	1	4	9	17
19	Ft. Pierce	37	1	0	0	0	0	1	36	0	0	4	11	21
20	Naples	16	2	0	1	0	0	1	14	0	1	0	2	11
21	Ft. Myers	25	10	0	2	1	2	5	15	0	0	2	4	9
22	Port Charlotte	1	0	0	0	0	0	0	1	0	0	0	0	1
23	St. Augustine	17	7	0	1	2	2	2	10	0	0	1	3	6
24	Sanford	9	2	0	0	0	1	1	7	0	1	1	5	0
25	Kissimmee	6	3	0	0	1	0	2	3	0	0	1	2	0
Statewide Totals		**607**	**178**	**0**	**8**	**29**	**51**	**90**	**429**	**4**	**19**	**61**	**111**	**234**

Diazepam Deaths by County
2017



Historical Overview of Alprazolam and Diazepam Occurrences

(Present and Cause)
2008 to 2017



Oxycodone Deaths

January – December 2017

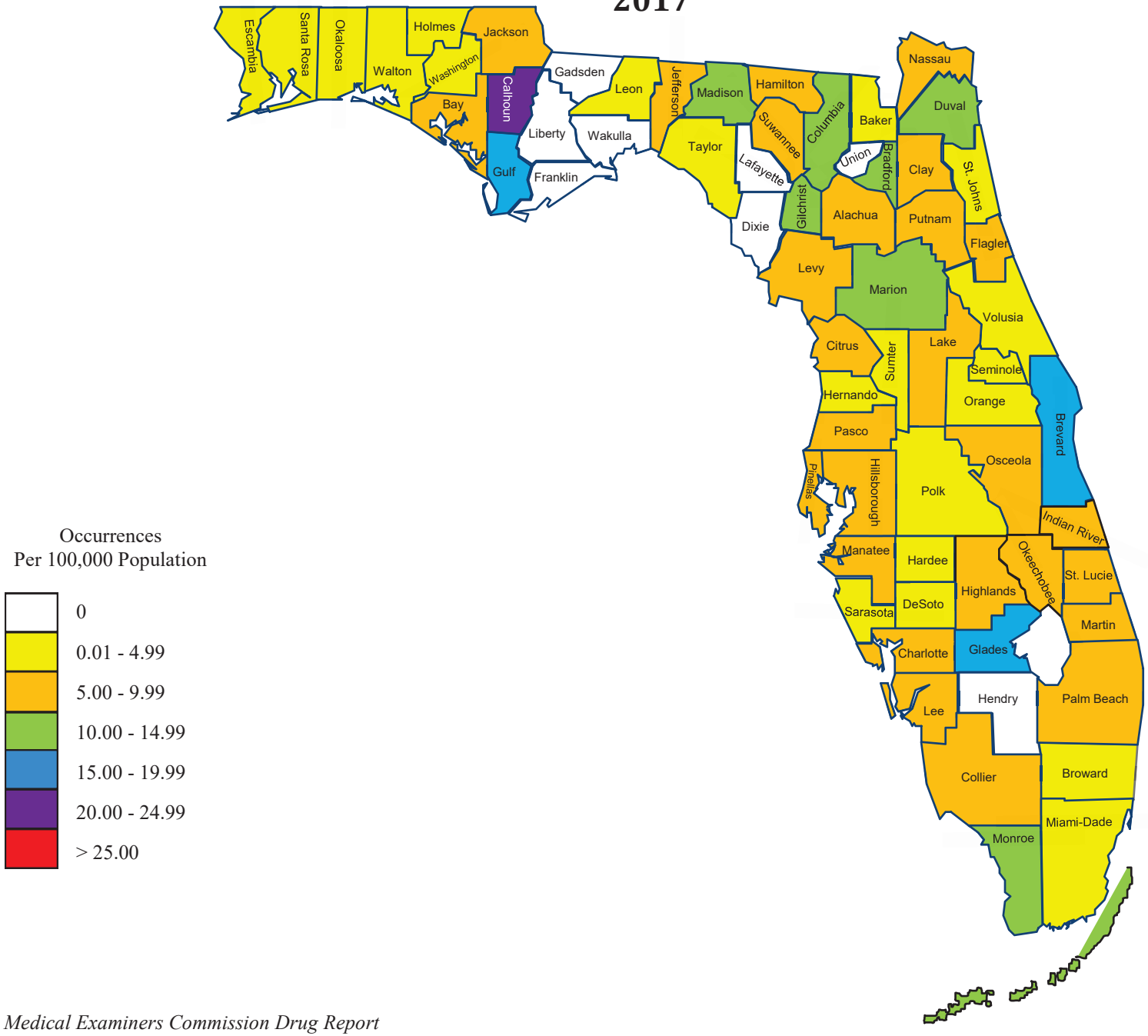
Medical Examiner District and Area of Florida		Total Deaths with Oxycodone			Deaths with Oxycodone Only			Deaths with Oxycodone in Combination with Other Drugs		
District	Area of Florida	Total	Cause	Present	Total	Cause	Present	Total	Cause	Present
1	Pensacola	26	11	15	3	1	2	23	10	13
2	Tallahassee	13	6	7	1	0	1	12	6	6
3	Live Oak	14	7	7	5	1	4	9	6	3
4	Jacksonville	142	55	87	5	0	5	137	55	82
5	Leesburg	85	36	49	9	3	6	76	33	43
6	St. Petersburg	122	71	51	9	5	4	113	66	47
7	Daytona Beach	26	14	12	2	0	2	24	14	10
8	Gainesville	25	16	9	5	4	1	20	12	8
9	Orlando	52	18	34	6	1	5	46	17	29
10	Lakeland	36	18	18	6	2	4	30	16	14
11	Miami	96	49	47	2	0	2	94	49	45
12	Sarasota	47	18	29	3	1	2	44	17	27
13	Tampa	89	42	47	9	1	8	80	41	39
14	Panama City	25	6	19	3	0	3	22	6	16
15	West Palm Beach	121	53	68	8	3	5	113	50	63
16	Florida Keys	9	6	3	1	0	1	8	6	2
17	Ft. Lauderdale	92	54	38	9	4	5	83	50	33
18	Melbourne	92	55	37	5	2	3	87	53	34
19	Ft. Pierce	48	19	29	6	0	6	42	19	23
20	Naples	18	7	11	0	0	0	18	7	11
21	Ft. Myers	39	21	18	3	0	3	36	21	15
22	Port Charlotte	16	6	10	0	0	0	16	6	10
23	St. Augustine	20	11	9	2	1	1	18	10	8
24	Sanford	10	4	6	1	0	1	9	4	5
25	Kissimmee	19	7	12	3	0	3	16	7	9
Statewide Totals		**1,282**	**610**	**672**	**106**	**29**	**77**	**1,176**	**581**	**595**

Oxycodone Deaths by Age

January – December 2017

Medical Examiner District and Area of Florida			Oxycodone Caused Death						Oxycodone Present at Death					
			Age of Decedent						*Age of Decedent*					
District	Area of Florida	Total	Total	< 18	18-25	26-34	35-50	>50	Total	<18	18-25	26-34	35-50	>50
1	Pensacola	26	11	0	1	1	3	6	15	0	1	2	2	10
2	Tallahassee	13	6	0	0	1	1	4	7	0	0	1	1	5
3	Live Oak	14	7	0	0	0	2	5	7	0	0	2	1	4
4	Jacksonville	142	55	0	0	10	17	28	87	0	6	13	32	36
5	Leesburg	85	36	0	0	2	19	15	49	0	3	9	12	25
6	St. Petersburg	122	71	0	5	12	26	28	51	0	2	8	11	30
7	Daytona Beach	26	14	0	0	3	4	7	12	0	0	0	8	4
8	Gainesville	25	16	0	0	3	6	7	9	0	0	0	4	5
9	Orlando	52	18	0	0	2	6	10	34	0	1	5	10	18
10	Lakeland	36	18	0	1	0	7	10	18	0	0	3	7	8
11	Miami	96	49	1	7	6	17	18	47	0	4	8	11	24
12	Sarasota	47	18	0	0	1	5	12	29	0	4	0	7	18
13	Tampa	89	42	1	4	7	11	19	47	0	2	5	14	26
14	Panama City	25	6	0	0	1	4	1	19	0	1	1	7	10
15	West Palm Beach	121	53	0	3	7	22	21	68	0	6	13	24	25
16	Florida Keys	9	6	0	0	2	3	1	3	0	0	0	1	2
17	Ft. Lauderdale	92	54	0	6	10	18	20	38	0	1	5	16	16
18	Melbourne	92	55	1	1	8	24	21	37	1	1	4	13	18
19	Ft. Pierce	48	19	0	1	1	4	13	29	0	0	0	8	21
20	Naples	18	7	0	0	1	2	4	11	0	0	1	5	5
21	Ft. Myers	39	21	0	2	2	7	10	18	0	1	1	8	8
22	Port Charlotte	16	6	0	0	1	1	4	10	0	1	0	3	6
23	St. Augustine	20	11	0	0	2	2	7	9	0	0	1	3	5
24	Sanford	10	4	0	0	1	3	0	6	0	0	0	3	3
25	Kissimmee	19	7	0	2	1	2	2	12	0	1	0	3	8
Statewide Totals		**1,282**	**610**	**3**	**33**	**85**	**216**	**273**	**672**	**1**	**35**	**82**	**214**	**340**

Oxycodone Deaths by County
2017



Hydrocodone Deaths

January – December 2017

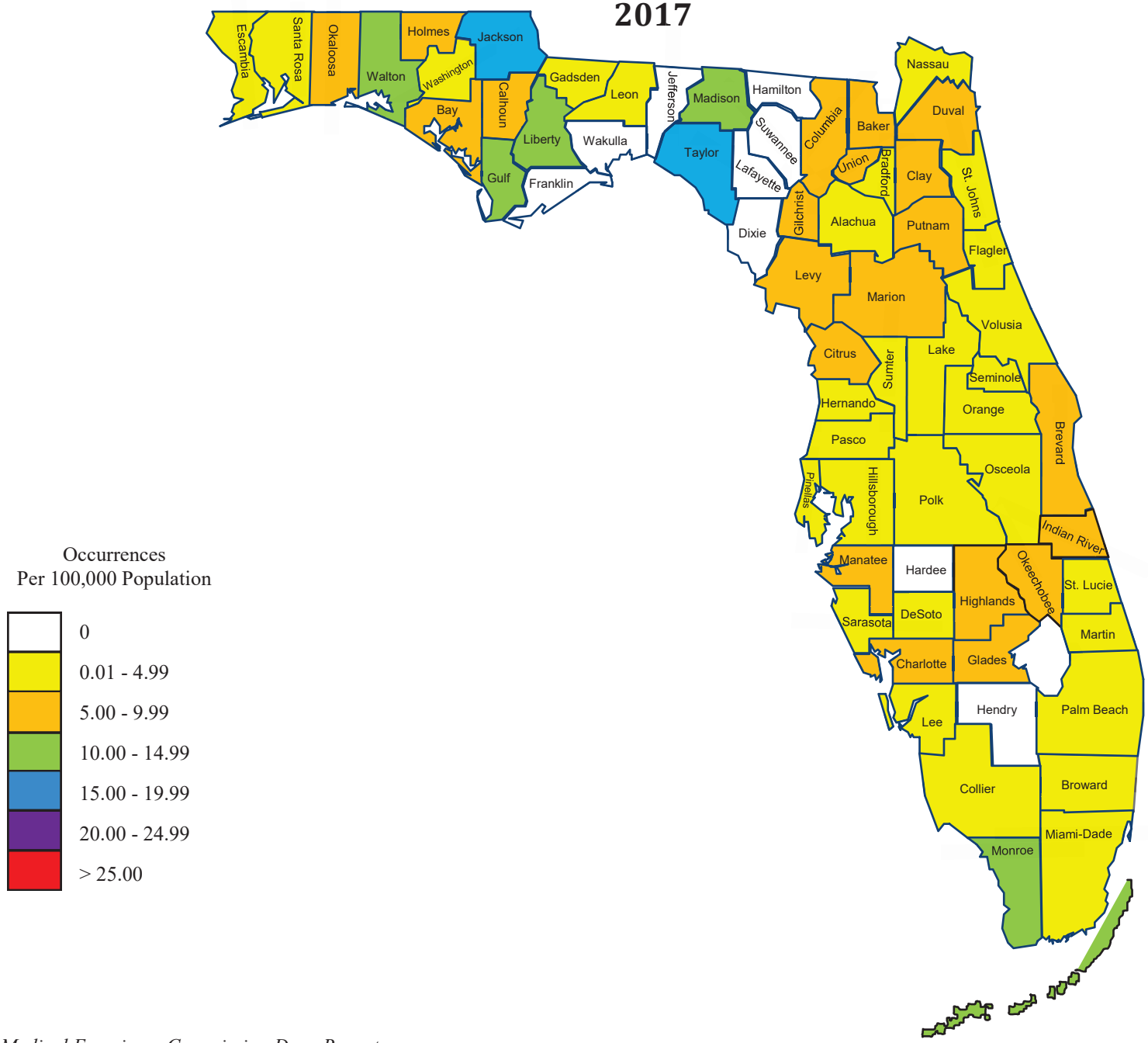
Medical Examiner District and Area of Florida		Total Deaths with Hydrocodone			Deaths with Hydrocodone Only			Deaths with Hydrocodone in Combination with Other Drugs		
District	Area of Florida	Total	Cause	Present	Total	Cause	Present	Total	Cause	Present
1	Pensacola	43	8	35	6	1	5	37	7	30
2	Tallahassee	13	5	8	3	1	2	10	4	6
3	Live Oak	7	1	6	0	0	0	7	1	6
4	Jacksonville	92	32	60	8	2	6	84	30	54
5	Leesburg	41	13	28	11	1	10	30	12	18
6	St. Petersburg	63	25	38	13	1	12	50	24	26
7	Daytona Beach	26	10	16	1	0	1	25	10	15
8	Gainesville	16	3	13	4	0	4	12	3	9
9	Orlando	51	7	44	15	0	15	36	7	29
10	Lakeland	39	10	29	7	1	6	32	9	23
11	Miami	29	10	19	2	0	2	27	10	17
12	Sarasota	40	9	31	7	1	6	33	8	25
13	Tampa	37	15	22	4	0	4	33	15	18
14	Panama City	32	9	23	3	0	3	29	9	20
15	West Palm Beach	32	14	18	2	0	2	30	14	16
16	Florida Keys	8	2	6	0	0	0	8	2	6
17	Ft. Lauderdale	30	13	17	3	0	3	27	13	14
18	Melbourne	38	15	23	7	2	5	31	13	18
19	Ft. Pierce	27	5	22	7	1	6	20	4	16
20	Naples	8	1	7	0	0	0	8	1	7
21	Ft. Myers	21	10	11	2	0	2	19	10	9
22	Port Charlotte	12	1	11	1	0	1	11	1	10
23	St. Augustine	9	2	7	0	0	0	9	2	7
24	Sanford	10	6	4	0	0	0	10	6	4
25	Kissimmee	8	0	8	2	0	2	6	0	6
Statewide Totals		**732**	**226**	**506**	**108**	**11**	**97**	**624**	**215**	**409**

Hydrocodone Deaths by Age

January – December 2017

Medical Examiner District and Area of Florida			Hydrocodone Caused Death						Hydrocodone Present at Death					
			Age of Decedent						*Age of Decedent*					
District	Area of Florida	Total	Total	< 18	18-25	26-34	35-50	>50	Total	<18	18-25	26-34	35-50	>50
1	Pensacola	43	8	0	0	2	3	3	35	0	2	8	7	18
2	Tallahassee	13	5	0	0	1	3	1	8	0	0	0	3	5
3	Live Oak	7	1	0	0	0	0	1	6	0	0	0	3	3
4	Jacksonville	92	32	0	1	5	8	18	60	0	3	11	28	18
5	Leesburg	41	13	0	0	1	4	8	28	0	0	1	6	21
6	St. Petersburg	63	25	0	0	2	6	17	38	0	3	6	6	23
7	Daytona Beach	26	10	0	0	3	0	7	16	0	1	4	3	8
8	Gainesville	16	3	1	0	0	1	1	13	0	0	1	5	7
9	Orlando	51	7	0	0	0	4	3	44	0	2	3	9	30
10	Lakeland	39	10	0	0	0	3	7	29	0	0	4	3	22
11	Miami	29	10	0	2	3	2	3	19	0	0	1	8	10
12	Sarasota	40	9	0	0	1	3	5	31	0	0	1	7	23
13	Tampa	37	15	0	1	2	0	12	22	0	0	1	5	16
14	Panama City	32	9	0	0	1	2	6	23	0	1	3	4	15
15	West Palm Beach	32	14	0	1	2	4	7	18	0	2	3	6	7
16	Florida Keys	8	2	0	0	0	1	1	6	0	0	0	3	3
17	Ft. Lauderdale	30	13	0	0	3	2	8	17	1	0	0	6	10
18	Melbourne	38	15	0	0	2	5	8	23	0	1	3	5	14
19	Ft. Pierce	27	5	0	0	1	2	2	22	0	0	1	3	18
20	Naples	8	1	0	0	0	0	1	7	0	0	0	0	7
21	Ft. Myers	21	10	0	0	2	3	5	11	0	0	0	1	10
22	Port Charlotte	12	1	0	0	0	0	1	11	0	0	2	2	7
23	St. Augustine	9	2	0	0	0	0	2	7	0	0	0	3	4
24	Sanford	10	6	0	2	1	1	2	4	0	0	1	1	2
25	Kissimmee	8	0	0	0	0	0	0	8	0	0	0	4	4
Statewide Totals		**732**	**226**	**1**	**7**	**32**	**57**	**129**	**506**	**1**	**15**	**54**	**131**	**305**

Hydrocodone Deaths by County
2017



Methadone Deaths

January – December 2017

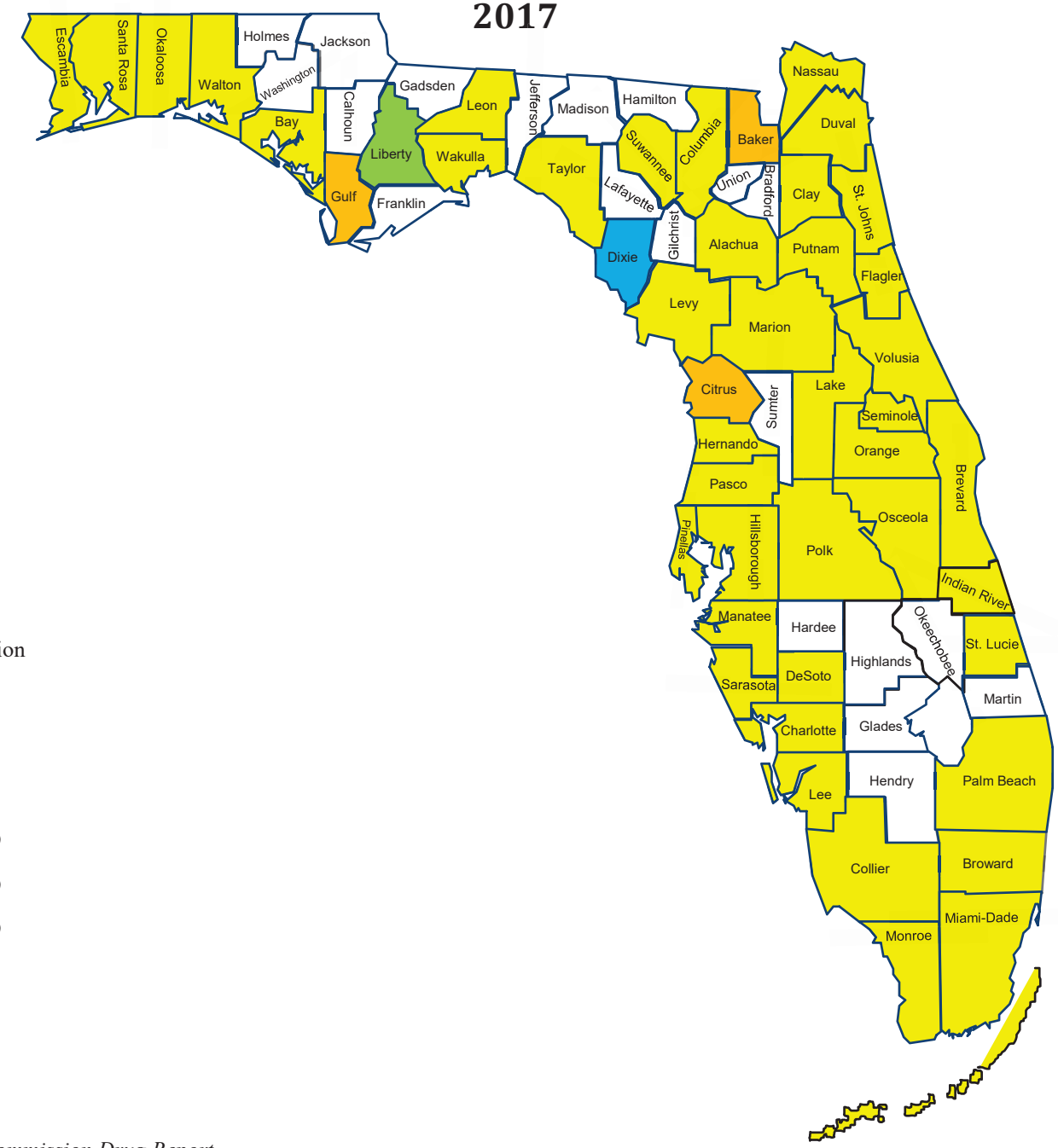
Medical Examiner District and Area of Florida		Total Deaths with Methadone			Deaths with Methadone Only			Deaths with Methadone in Combination with Other Drugs		
District	Area of Florida	Total	Cause	Present	Total	Cause	Present	Total	Cause	Present
1	Pensacola	17	8	9	3	0	3	14	8	6
2	Tallahassee	5	4	1	0	0	0	5	4	1
3	Live Oak	7	6	1	1	1	0	6	5	1
4	Jacksonville	43	29	14	6	2	4	37	27	10
5	Leesburg	39	23	16	7	5	2	32	18	14
6	St. Petersburg	44	36	8	1	1	0	43	35	8
7	Daytona Beach	13	7	6	2	0	2	11	7	4
8	Gainesville	11	6	5	3	1	2	8	5	3
9	Orlando	16	5	11	1	0	1	15	5	10
10	Lakeland	11	6	5	1	0	1	10	6	4
11	Miami	15	6	9	1	0	1	14	6	8
12	Sarasota	30	10	20	5	2	3	25	8	17
13	Tampa	31	19	12	4	2	2	27	17	10
14	Panama City	5	2	3	0	0	0	5	2	3
15	West Palm Beach	29	20	9	2	1	1	27	19	8
16	Florida Keys	2	1	1	1	0	1	1	1	0
17	Ft. Lauderdale	18	13	5	2	0	2	16	13	3
18	Melbourne	24	18	6	2	2	0	22	16	6
19	Ft. Pierce	11	4	7	1	0	1	10	4	6
20	Naples	9	4	5	0	0	0	9	4	5
21	Ft. Myers	20	13	7	3	2	1	17	11	6
22	Port Charlotte	1	0	1	0	0	0	1	0	1
23	St. Augustine	8	2	6	1	0	1	7	2	5
24	Sanford	5	2	3	0	0	0	5	2	3
25	Kissimmee	6	3	3	3	2	1	3	1	2
Statewide Totals		**420**	**247**	**173**	**50**	**21**	**29**	**370**	**226**	**144**

Methadone Deaths by Age

January – December 2017

Medical Examiner District and Area of Florida			Methadone Caused Death						Methadone Present at Death					
			Age of Decedent						*Age of Decedent*					
District	Area of Florida	Total	Total	<18	18-25	26-34	35-50	>50	Total	<18	18-25	26-34	35-50	>50
1	Pensacola	17	8	0	0	2	2	4	9	0	0	3	3	3
2	Tallahassee	5	4	0	0	2	2	0	1	0	0	0	1	0
3	Live Oak	7	6	0	1	1	3	1	1	0	0	0	0	1
4	Jacksonville	43	29	1	1	9	9	9	14	2	0	2	5	5
5	Leesburg	39	23	0	3	2	10	8	16	0	2	2	7	5
6	St. Petersburg	44	36	0	1	5	13	17	8	0	0	1	2	5
7	Daytona Beach	13	7	0	0	0	4	3	6	0	0	1	2	3
8	Gainesville	11	6	0	0	0	5	1	5	0	0	4	0	1
9	Orlando	16	5	0	0	0	3	2	11	0	2	0	4	5
10	Lakeland	11	6	0	0	0	3	3	5	0	0	0	3	2
11	Miami	15	6	0	0	2	3	1	9	0	2	1	3	3
12	Sarasota	30	10	0	0	1	6	3	20	1	0	4	8	7
13	Tampa	31	19	0	2	3	7	7	12	0	0	3	3	6
14	Panama City	5	2	0	0	0	2	0	3	0	0	1	1	1
15	West Palm Beach	29	20	0	1	5	5	9	9	0	0	3	2	4
16	Florida Keys	2	1	0	0	0	1	0	1	0	0	0	1	0
17	Ft. Lauderdale	18	13	0	0	0	3	10	5	1	0	0	1	3
18	Melbourne	24	18	1	3	6	3	5	6	0	0	1	3	2
19	Ft. Pierce	11	4	0	1	0	0	3	7	0	0	1	2	4
20	Naples	9	4	0	0	0	2	2	5	0	0	1	1	3
21	Ft. Myers	20	13	0	0	6	4	3	7	0	0	1	1	5
22	Port Charlotte	1	0	0	0	0	0	0	1	0	0	0	0	1
23	St. Augustine	8	2	0	0	1	1	0	6	0	0	2	1	3
24	Sanford	5	2	0	0	1	1	0	3	0	0	2	1	0
25	Kissimmee	6	3	0	0	1	0	2	3	0	0	0	2	1
Statewide Totals		**420**	**247**	**2**	**13**	**47**	**92**	**93**	**173**	**4**	**6**	**33**	**57**	**73**

Methadone Deaths by County
2017

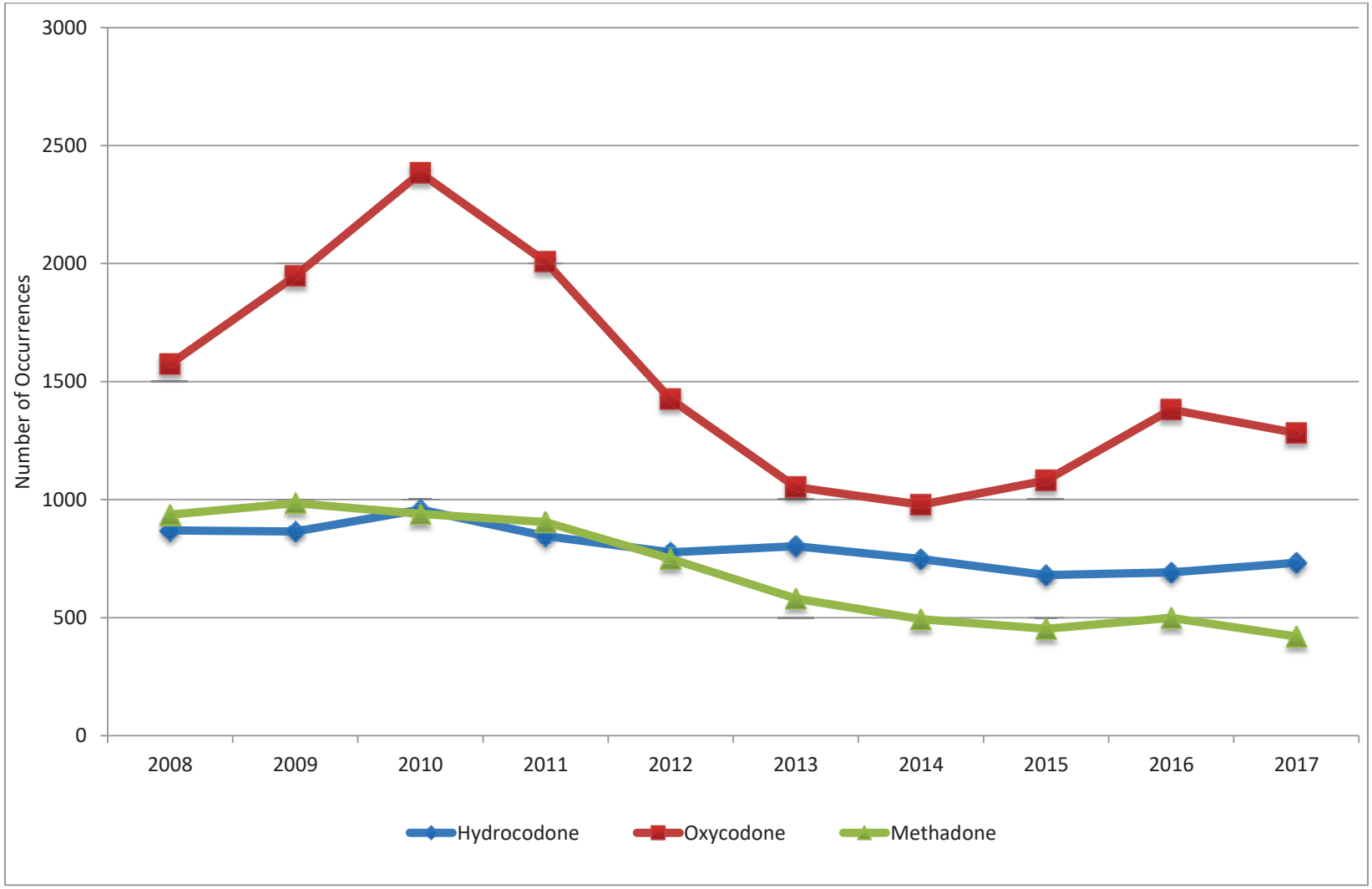


Occurrences
Per 100,000 Population

- 0
- 0.01 - 4.99
- 5.00 - 9.99
- 10.00 - 14.99
- 15.00 - 19.99
- 20.00 - 24.99
- > 25.00

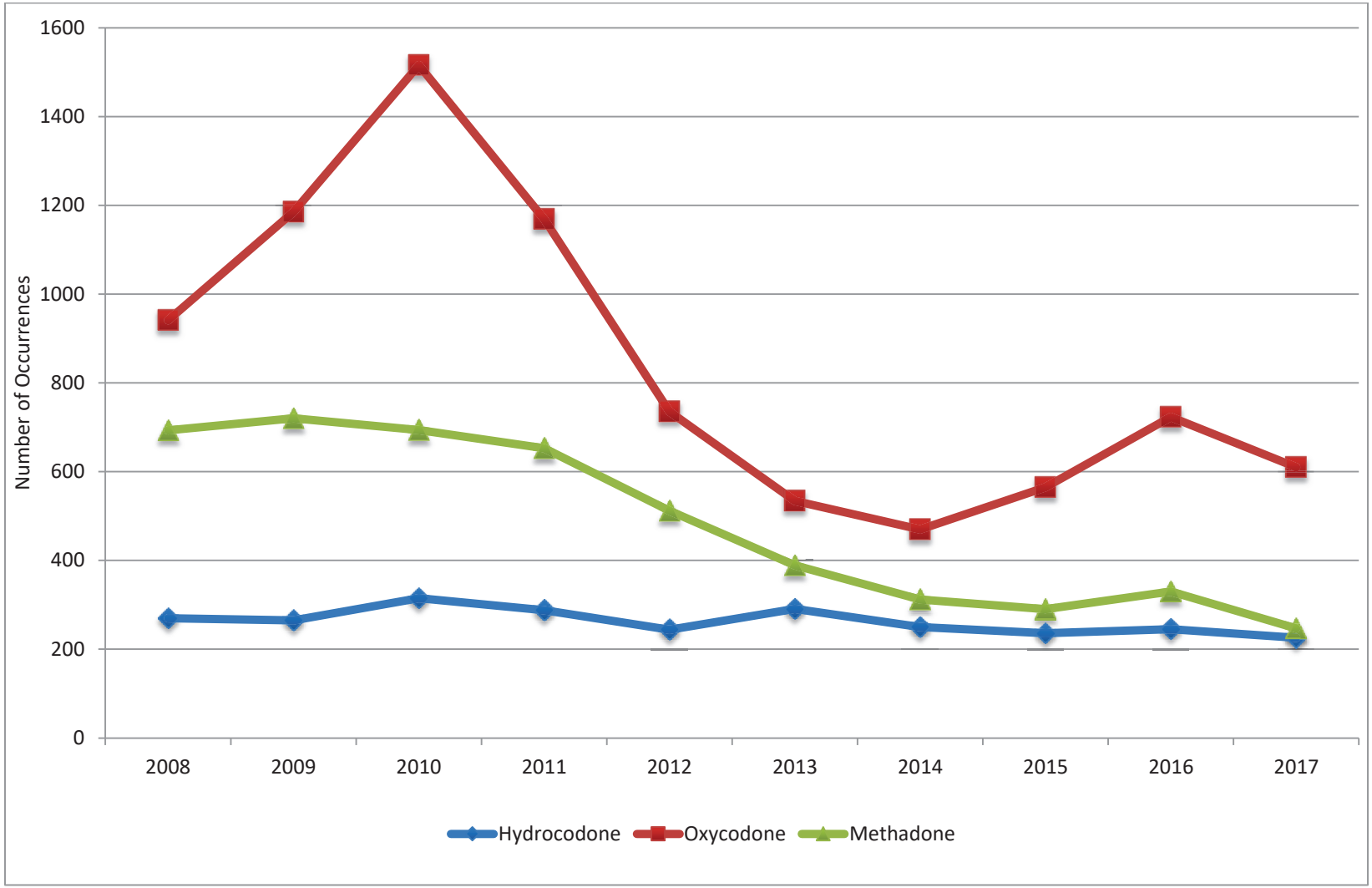
Historical Overview of Hydrocodone, Oxycodone, and Methadone Occurrences

(Present and Cause)
2008 to 2017



Historical Overview of Deaths Caused by Hydrocodone, Oxycodone, and Methadone

2008 to 2017



Morphine Deaths

January – December 2017

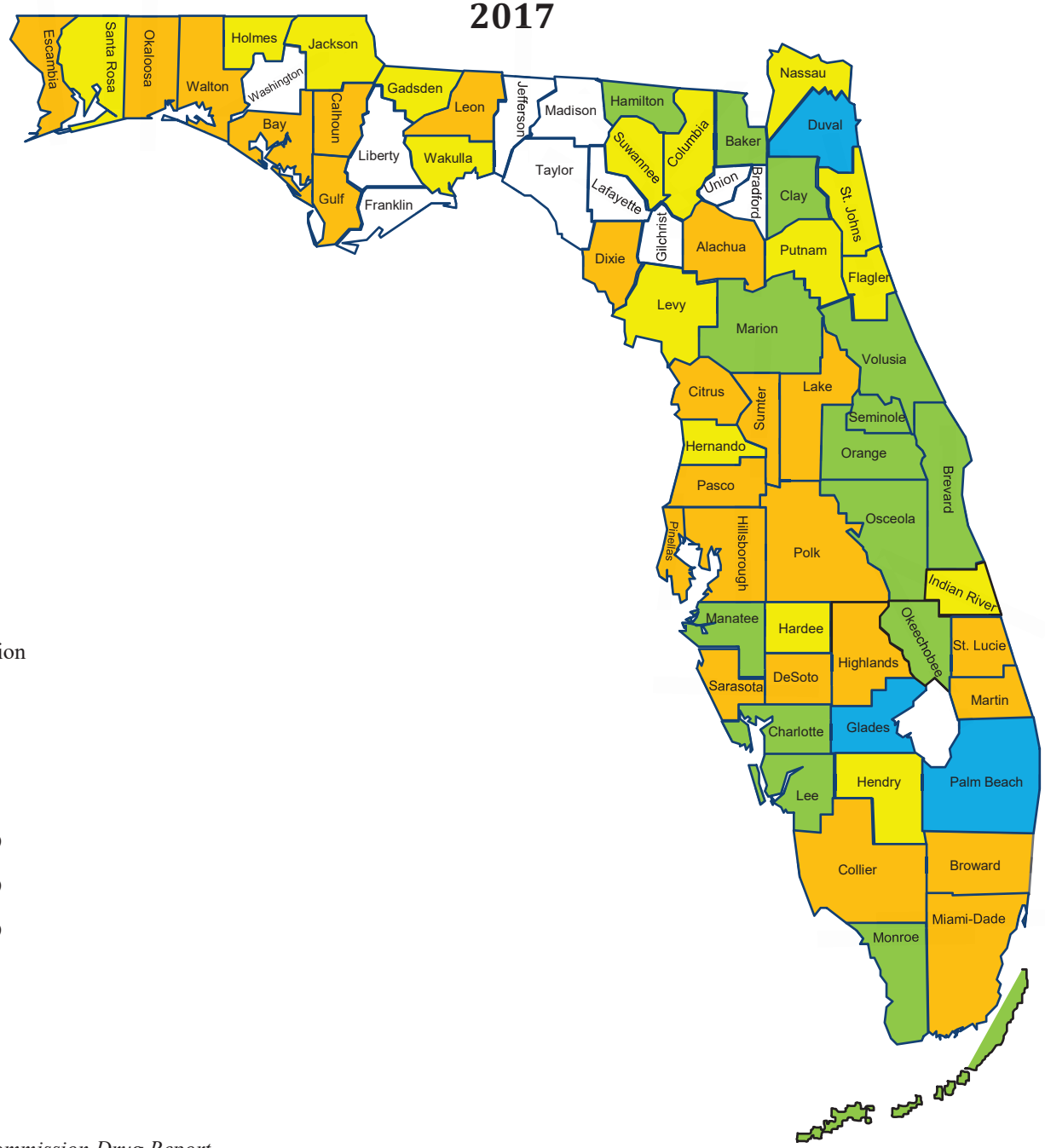
Medical Examiner District and Area of Florida		Total Deaths with Morphine			Deaths with Morphine Only			Deaths with Morphine in Combination with Other Drugs		
District	Area of Florida	Total	Cause	Present	Total	Cause	Present	Total	Cause	Present
1	Pensacola	46	26	20	2	0	2	44	26	18
2	Tallahassee	18	2	16	4	0	4	14	2	12
3	Live Oak	7	5	2	1	1	0	6	4	2
4	Jacksonville	173	140	33	3	1	2	170	139	31
5	Leesburg	91	56	35	3	2	1	88	54	34
6	St. Petersburg	123	71	52	5	3	2	118	68	50
7	Daytona Beach	63	46	17	3	0	3	60	46	14
8	Gainesville	21	10	11	4	2	2	17	8	9
9	Orlando	160	83	77	11	0	11	149	83	66
10	Lakeland	58	24	34	3	0	3	55	24	31
11	Miami	176	133	43	3	0	3	173	133	40
12	Sarasota	83	25	58	4	2	2	79	23	56
13	Tampa	132	92	40	9	1	8	123	91	32
14	Panama City	19	8	11	0	0	0	19	8	11
15	West Palm Beach	259	191	68	6	3	3	253	188	65
16	Florida Keys	9	4	5	1	1	0	8	3	5
17	Ft. Lauderdale	173	117	56	15	7	8	158	110	48
18	Melbourne	74	46	28	2	0	2	72	46	26
19	Ft. Pierce	44	24	20	4	3	1	40	21	19
20	Naples	32	21	11	0	0	0	32	21	11
21	Ft. Myers	96	80	16	5	2	3	91	78	13
22	Port Charlotte	19	4	15	3	0	3	16	4	12
23	St. Augustine	18	5	13	0	0	0	18	5	13
24	Sanford	55	43	12	2	0	2	53	43	10
25	Kissimmee	43	29	14	3	0	3	40	29	11
Statewide Totals		**1,992**	**1,285**	**707**	**96**	**28**	**68**	**1,896**	**1,257**	**639**

Morphine Deaths by Age

January – December 2017

Medical Examiner District and Area of Florida			Morphine Caused Death						Morphine Present at Death					
			Age of Decedent						*Age of Decedent*					
District	Area of Florida	Total	Total	<18	18-25	26-34	35-50	>50	Total	<18	18-25	26-34	35-50	>50
1	Pensacola	46	26	0	2	10	13	1	20	0	1	6	5	8
2	Tallahassee	18	2	0	0	0	2	0	16	1	1	1	1	12
3	Live Oak	7	5	0	0	1	0	4	2	1	0	0	1	0
4	Jacksonville	173	140	0	12	46	49	33	33	1	0	6	8	18
5	Leesburg	91	56	1	4	15	12	24	35	0	3	6	16	10
6	St. Petersburg	123	71	0	1	19	23	28	52	0	6	7	19	20
7	Daytona Beach	63	46	0	1	16	20	9	17	0	2	4	5	6
8	Gainesville	21	10	0	0	1	3	6	11	0	0	1	6	4
9	Orlando	160	83	0	5	18	39	21	77	2	0	6	16	53
10	Lakeland	58	24	0	1	3	9	11	34	1	2	7	6	18
11	Miami	176	133	2	16	32	49	34	43	0	1	12	7	23
12	Sarasota	83	25	0	2	5	8	10	58	1	4	8	22	23
13	Tampa	132	92	1	4	18	33	36	40	0	3	5	16	16
14	Panama City	19	8	0	1	1	3	3	11	0	1	4	2	4
15	West Palm Beach	259	191	0	22	62	52	55	68	0	15	14	21	18
16	Florida Keys	9	4	0	1	0	2	1	5	0	0	1	2	2
17	Ft. Lauderdale	173	117	0	9	33	45	30	56	2	4	19	18	13
18	Melbourne	74	46	1	3	14	15	13	28	0	1	7	7	13
19	Ft. Pierce	44	24	0	3	4	3	14	20	0	0	4	5	11
20	Naples	32	21	0	2	5	8	6	11	0	1	2	3	5
21	Ft. Myers	96	80	0	9	25	25	21	16	0	0	4	4	8
22	Port Charlotte	19	4	0	0	2	1	1	15	0	0	0	3	12
23	St. Augustine	18	5	0	1	0	1	3	13	0	1	5	4	3
24	Sanford	55	43	0	3	14	15	11	12	0	0	3	4	5
25	Kissimmee	43	29	0	5	9	11	4	14	0	1	1	5	7
Statewide Totals		**1,992**	**1,285**	**5**	**107**	**353**	**441**	**379**	**707**	**9**	**47**	**133**	**206**	**312**

Morphine Deaths by County
2017



Occurrences
Per 100,000 Population

- 0
- 0.01 - 4.99
- 5.00 - 9.99
- 10.00 - 14.99
- 15.00 - 19.99
- 20.00 - 24.99
- > 25.00

Fentanyl Deaths

January – December 2017

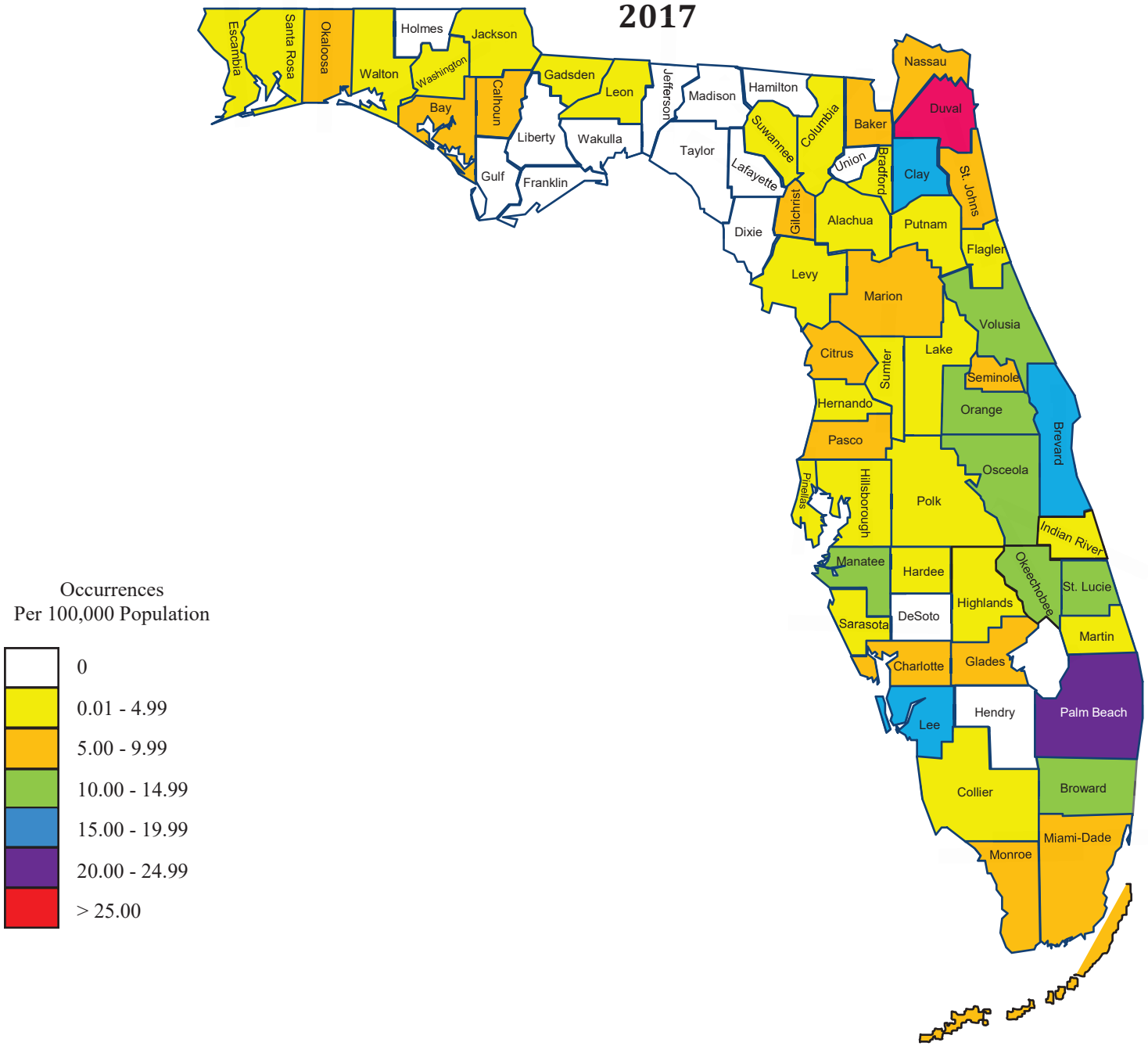
Medical Examiner District and Area of Florida		Total Deaths with Fentanyl			Deaths with Fentanyl Only			Deaths with Fentanyl in Combination with Other Drugs		
District	Area of Florida	Total	Cause	Present	Total	Cause	Present	Total	Cause	Present
1	Pensacola	25	24	1	1	1	0	24	23	1
2	Tallahassee	3	2	1	1	1	0	2	1	1
3	Live Oak	3	1	2	1	0	1	2	1	1
4	Jacksonville	370	302	68	22	19	3	348	283	65
5	Leesburg	66	54	12	5	0	5	61	54	7
6	St. Petersburg	85	67	18	9	8	1	76	59	17
7	Daytona Beach	59	49	10	2	2	0	57	47	10
8	Gainesville	11	7	4	3	1	2	8	6	2
9	Orlando	171	127	44	13	8	5	158	119	39
10	Lakeland	19	17	2	1	1	0	18	16	2
11	Miami	195	169	26	5	1	4	190	168	22
12	Sarasota	63	46	17	6	5	1	57	41	16
13	Tampa	61	55	6	5	4	1	56	51	5
14	Panama City	13	9	4	1	0	1	12	9	3
15	West Palm Beach	285	244	41	26	25	1	259	219	40
16	Florida Keys	6	5	1	0	0	0	6	5	1
17	Ft. Lauderdale	244	223	21	26	25	1	218	198	20
18	Melbourne	99	83	16	7	4	3	92	79	13
19	Ft. Pierce	56	36	20	7	4	3	49	32	17
20	Naples	16	13	3	0	0	0	16	13	3
21	Ft. Myers	118	109	9	10	9	1	108	100	8
22	Port Charlotte	12	8	4	0	0	0	12	8	4
23	St. Augustine	22	18	4	2	0	2	20	18	2
24	Sanford	39	36	3	5	5	0	34	31	3
25	Kissimmee	47	39	8	5	3	2	42	36	6
Statewide Totals		**2,088**	**1,743**	**345**	**163**	**126**	**37**	**1,925**	**1,617**	**308**

Fentanyl Deaths by Age

January – December 2017

Medical Examiner District and Area of Florida			Fentanyl Caused Death						Fentanyl Present at Death					
			Age of Decedent						*Age of Decedent*					
District	Area of Florida	Total	Total	<18	18-25	26-34	35-50	>50	Total	<18	18-25	26-34	35-50	>50
1	Pensacola	25	24	0	2	10	10	2	1	0	0	0	1	0
2	Tallahassee	3	2	0	0	1	0	1	1	0	0	0	1	0
3	Live Oak	3	1	0	0	1	0	0	2	0	1	0	0	1
4	Jacksonville	370	302	1	27	98	114	62	68	3	7	24	20	14
5	Leesburg	66	54	0	4	16	23	11	12	0	2	2	2	6
6	St. Petersburg	85	67	0	6	25	24	12	18	0	3	4	7	4
7	Daytona Beach	59	49	0	3	16	24	6	10	0	1	3	5	1
8	Gainesville	11	7	0	0	2	4	1	4	0	0	1	1	2
9	Orlando	171	127	0	8	32	59	28	44	2	2	5	12	23
10	Lakeland	19	17	0	1	3	8	5	2	0	0	0	1	1
11	Miami	195	169	1	26	44	53	45	26	2	2	5	5	12
12	Sarasota	63	46	0	5	14	19	8	17	0	1	7	6	3
13	Tampa	61	55	0	1	9	29	16	6	1	1	0	1	3
14	Panama City	13	9	0	2	2	4	1	4	1	0	1	0	2
15	West Palm Beach	285	244	0	33	79	73	59	41	0	9	8	14	10
16	Florida Keys	6	5	0	0	2	3	0	1	0	0	0	0	1
17	Ft. Lauderdale	244	223	1	29	64	96	33	21	0	3	4	8	6
18	Melbourne	99	83	2	3	34	35	9	16	0	0	4	4	8
19	Ft. Pierce	56	36	0	2	14	11	9	20	1	3	2	5	9
20	Naples	16	13	0	2	3	5	3	3	0	0	0	1	2
21	Ft. Myers	118	109	0	9	36	39	25	9	0	0	2	4	3
22	Port Charlotte	12	8	0	0	1	3	4	4	0	0	0	1	3
23	St. Augustine	22	18	0	2	5	5	6	4	0	0	1	0	3
24	Sanford	39	36	0	3	12	14	7	3	0	0	0	1	2
25	Kissimmee	47	39	0	4	7	24	4	8	0	1	2	2	3
Statewide Totals		**2,088**	**1,743**	**5**	**172**	**530**	**679**	**357**	**345**	**10**	**36**	**75**	**102**	**122**

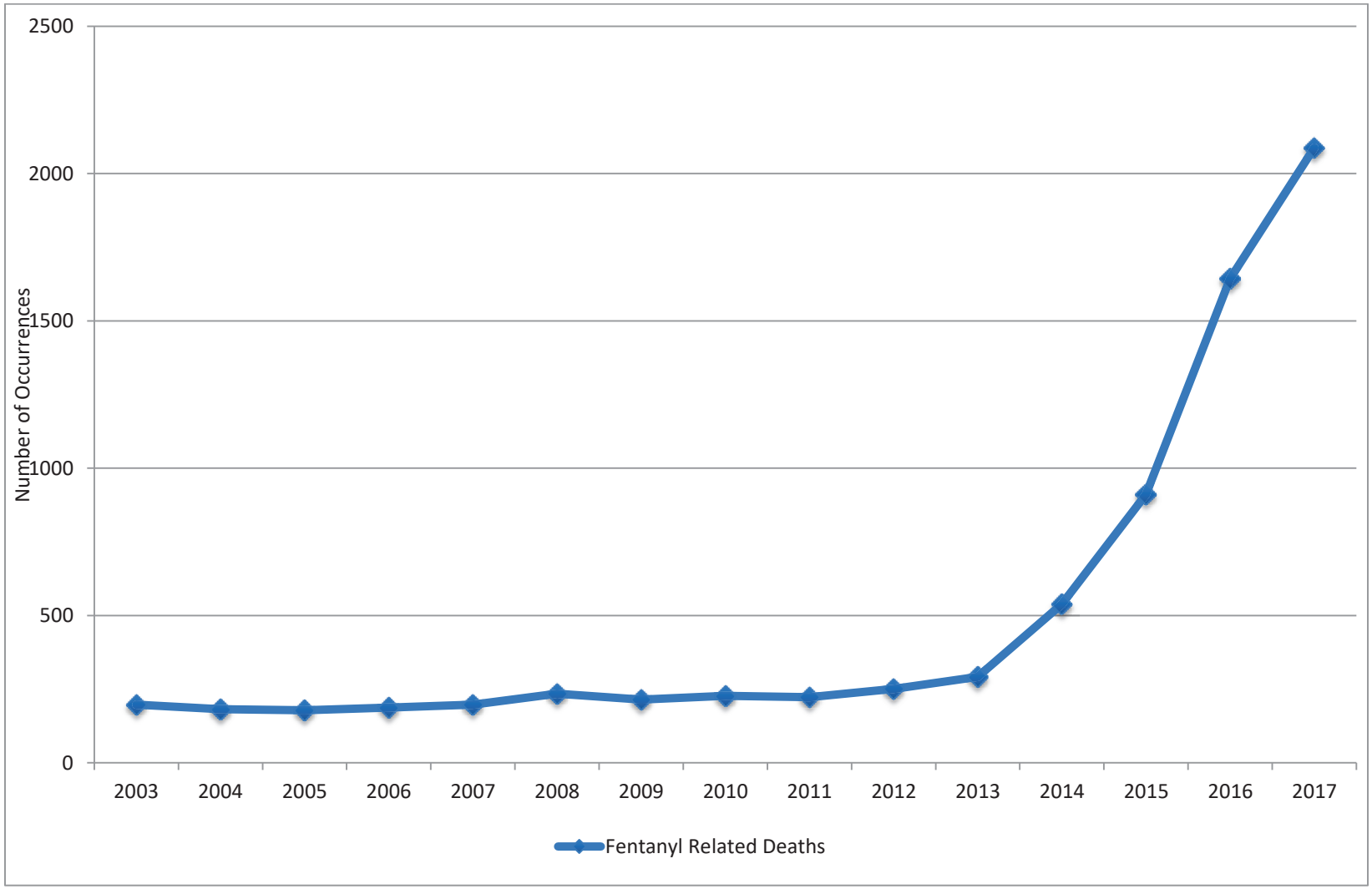
Fentanyl Deaths by County
2017



Historical Overview of Fentanyl Occurrences[1]

(Present and Cause)

2003 to 2017



[1]*Prior 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

2016 versus 2017

Medical Examiner District and Area of Florida		Total Prescription Drug Deaths in ME Deaths (Present and Cause)			Accidental Deaths with Prescription Drugs (Present and Cause)			Accidental Deaths Caused by Prescription Drugs		
District	Area of Florida	2016	2017	Percent Change	2016	2017	Percent Change	2016	2017	Percent Change
1	Pensacola	173	182	5.2%	107	98	-8.4%	82	70	-14.6%
2	Tallahassee	82	64	-22.0%	43	32	-25.6%	23	17	-26.1%
3	Live Oak	49	51	4.1%	30	29	-3.3%	14	19	35.7%
4	Jacksonville	619	706	14.1%	483	520	7.7%	404	419	3.7%
5	Leesburg	398	351	-11.8%	269	225	-16.4%	186	147	-21.0%
6	St. Petersburg	550	521	-5.3%	357	351	-1.7%	291	256	-12.0%
7	Daytona Beach	181	212	17.1%	102	142	39.2%	64	105	64.1%
8	Gainesville	100	105	5.0%	53	57	7.5%	28	37	32.1%
9	Orlando	412	475	15.3%	254	315	24.0%	183	208	13.7%
10	Lakeland	190	208	9.5%	109	117	7.3%	63	51	-19.0%
11	Miami	641	629	-1.9%	390	393	0.8%	263	262	-0.4%
12	Sarasota	285	296	3.9%	195	186	-4.6%	136	114	-16.2%
13	Tampa	381	369	-3.1%	209	211	1.0%	153	161	5.2%
14	Panama City	102	105	2.9%	55	55	0.0%	38	22	-42.1%
15	West Palm Beach	694	710	2.3%	562	566	0.7%	481	421	-12.5%
16	Florida Keys	40	48	20.0%	26	28	7.7%	21	15	-28.6%
17	Ft. Lauderdale	523	570	9.0%	423	477	12.8%	330	403	22.1%
18	Melbourne	301	353	17.3%	173	211	22.0%	112	164	46.4%
19	Ft. Pierce	262	226	-13.7%	166	131	-21.1%	87	83	-4.6%
20	Naples	95	97	2.1%	57	45	-21.1%	44	35	-20.5%
21	Ft. Myers	209	287	37.3%	138	218	58.0%	96	179	86.5%
22	Port Charlotte	87	60	-31.0%	38	35	-7.9%	13	14	7.7%
23	St. Augustine	84	90	7.1%	49	48	-2.0%	34	28	-17.6%
24	Sanford	100	97	-3.0%	61	77	26.2%	52	66	26.9%
25	Kissimmee	100	120	20.0%	54	77	42.6%	36	62	72.2%
Statewide Totals		**6,658**	**6,932**	**4.1%**	**4,403**	**4,644**	**5.5%**	**3,234**	**3,358**	**3.8%**

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

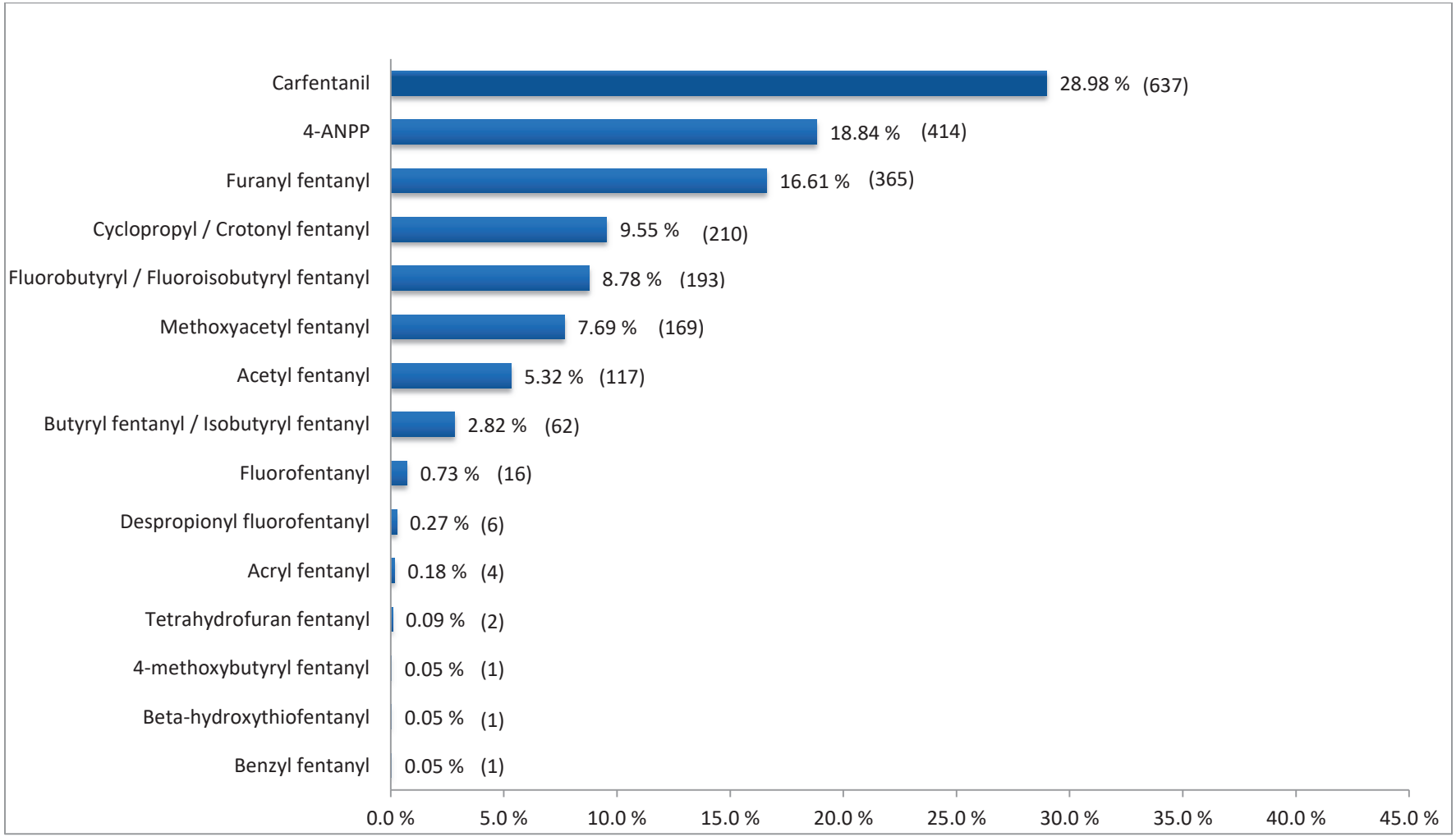
These individuals died with one or more prescription drugs in their system. The drugs were identified as either the cause of death or merely present in the decedent and also may have been mixed with illicit drugs and/or alcohol.

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.

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 2017



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 2017

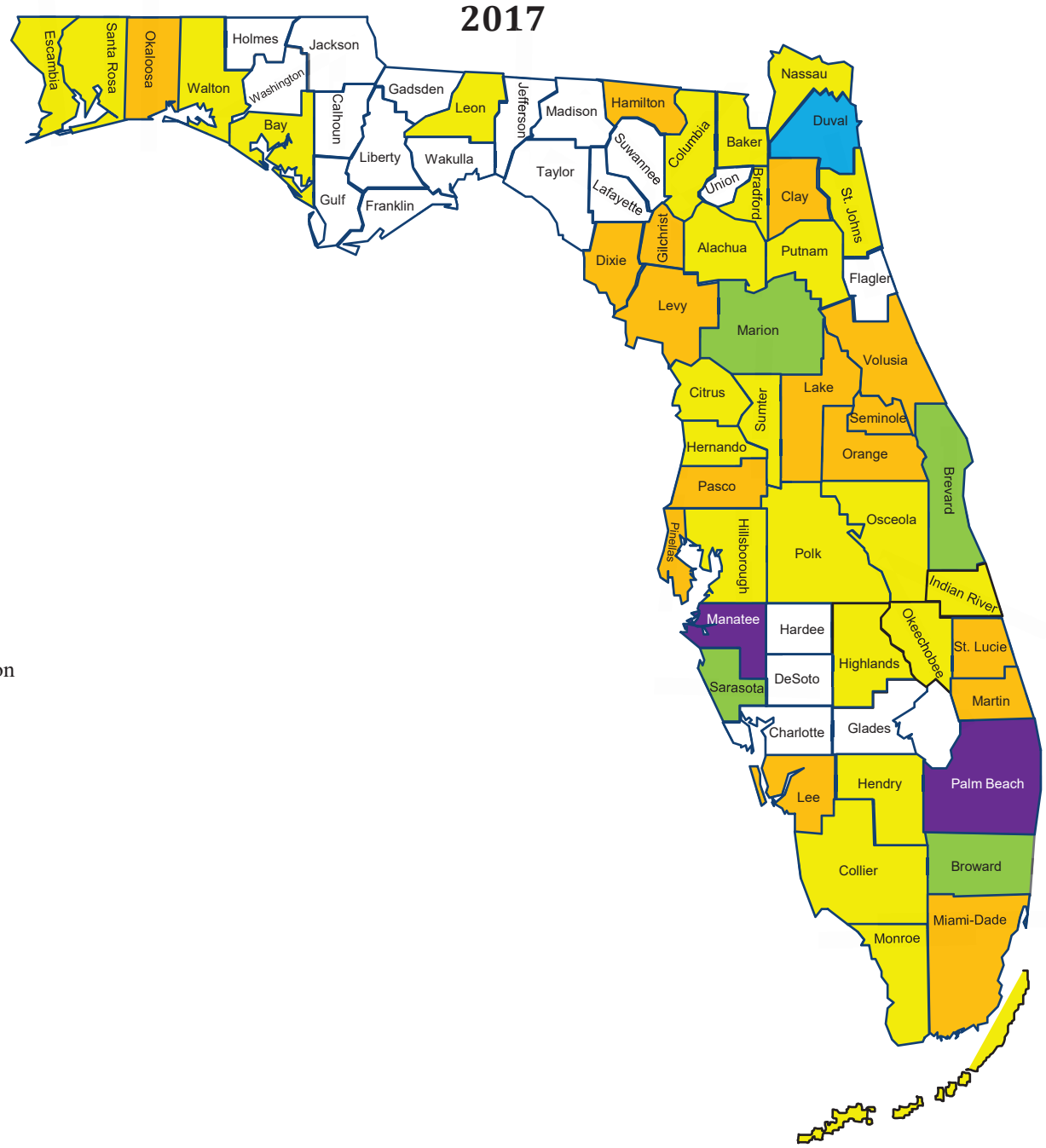
Medical Examiner District and Area of Florida		Total Deaths with Fentanyl Analogs			Deaths with Fentanyl Analogs Only			Deaths with Fentanyl Analogs in Combination with Other Drugs		
District	Area of Florida	Total	Cause	Present	Total	Cause	Present	Total	Cause	Present
1	Pensacola	22	22	0	2	2	0	20	20	0
2	Tallahassee	4	3	1	0	0	0	4	3	1
3	Live Oak	4	3	1	0	0	0	4	3	1
4	Jacksonville	176	163	13	5	5	0	171	158	13
5	Leesburg	83	77	6	6	6	0	77	71	6
6	St. Petersburg	110	104	6	11	11	0	99	93	6
7	Daytona Beach	30	28	2	2	1	1	28	27	1
8	Gainesville	16	13	3	1	1	0	15	12	3
9	Orlando	75	69	6	4	4	0	71	65	6
10	Lakeland	23	23	0	2	2	0	21	21	0
11	Miami	193	185	8	7	7	0	186	178	8
12	Sarasota	133	131	2	10	10	0	123	121	2
13	Tampa	16	15	1	3	2	1	13	13	0
14	Panama City	6	6	0	0	0	0	6	6	0
15	West Palm Beach	344	336	8	44	44	0	300	292	8
16	Florida Keys	3	3	0	0	0	0	3	3	0
17	Ft. Lauderdale	241	235	6	24	24	0	217	211	6
18	Melbourne	65	59	6	1	1	0	64	58	6
19	Ft. Pierce	40	38	2	7	7	0	33	31	2
20	Naples	6	4	2	0	0	0	6	4	2
21	Ft. Myers	60	36	24	3	3	0	57	33	24
22	Port Charlotte	0	0	0	0	0	0	0	0	0
23	St. Augustine	7	7	0	0	0	0	7	7	0
24	Sanford	23	23	0	2	2	0	21	21	0
25	Kissimmee	5	5	0	1	1	0	4	4	0
Statewide Totals		**1,685**	**1,588**	**97**	**135**	**133**	**2**	**1,550**	**1,455**	**95**

Fentanyl Analog Deaths by Age

January – December 2017

Medical Examiner District and Area of Florida			Fentanyl Analogs Caused Death						Fentanyl Analogs Present at Death					
			Age of Decedent						*Age of Decedent*					
District	Area of Florida	Total	Total	<18	18-25	26-34	35-50	>50	Total	<18	18-25	26-34	35-50	>50
1	Pensacola	22	22	0	8	6	6	2	0	0	0	0	0	0
2	Tallahassee	4	3	0	0	1	1	1	1	0	0	0	1	0
3	Live Oak	4	3	0	0	1	0	2	1	0	0	0	1	0
4	Jacksonville	176	163	0	14	54	64	31	13	0	2	3	6	2
5	Leesburg	83	77	0	11	29	29	8	6	0	0	3	1	2
6	St. Petersburg	110	104	0	15	30	44	15	6	0	1	1	2	2
7	Daytona Beach	30	28	0	2	7	18	1	2	0	0	0	2	0
8	Gainesville	16	13	0	0	3	7	3	3	0	0	1	2	0
9	Orlando	75	69	0	7	21	24	17	6	0	0	2	3	1
10	Lakeland	23	23	0	1	8	9	5	0	0	0	0	0	0
11	Miami	193	185	1	25	49	63	47	8	0	1	2	1	4
12	Sarasota	133	131	1	16	40	51	23	2	0	0	1	0	1
13	Tampa	16	15	1	2	3	5	4	1	0	0	0	0	1
14	Panama City	6	6	0	1	2	1	2	0	0	0	0	0	0
15	West Palm Beach	344	336	0	62	122	111	41	8	0	0	4	2	2
16	Florida Keys	3	3	0	0	1	2	0	0	0	0	0	0	0
17	Ft. Lauderdale	241	235	1	24	76	90	44	6	0	2	3	1	0
18	Melbourne	65	59	1	4	25	19	10	6	0	0	2	3	1
19	Ft. Pierce	40	38	0	2	19	10	7	2	0	0	0	1	1
20	Naples	6	4	0	0	1	2	1	2	0	0	0	1	1
21	Ft. Myers	60	36	0	3	15	11	7	24	0	2	9	9	4
22	Port Charlotte	0	0	0	0	0	0	0	0	0	0	0	0	0
23	St. Augustine	7	7	0	2	2	2	1	0	0	0	0	0	0
24	Sanford	23	23	0	3	11	7	2	0	0	0	0	0	0
25	Kissimmee	5	5	0	0	1	3	1	0	0	0	0	0	0
Statewide Totals		**1,685**	**1,588**	**5**	**202**	**527**	**579**	**275**	**97**	**0**	**8**	**31**	**36**	**22**

Fentanyl Analog Deaths by County
2017



Occurrences
Per 100,000 Population

- 0
- 0.01 - 4.99
- 5.00 - 9.99
- 10.00 - 14.99
- 15.00 - 19.99
- 20.00 - 24.99
- > 25.00

Cocaine Deaths

January – December 2017

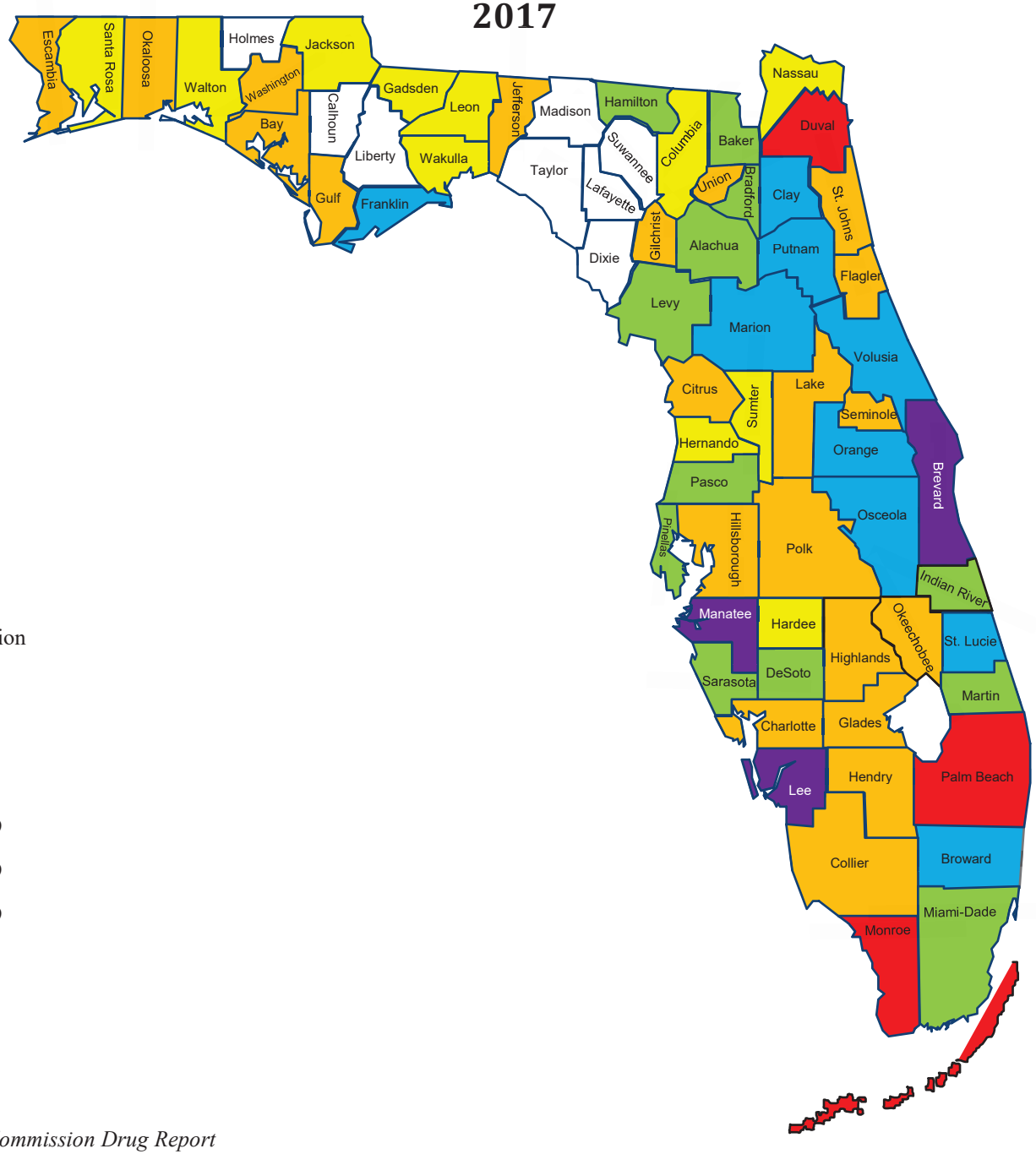
Medical Examiner District and Area of Florida		Total Deaths with Cocaine			Deaths with Cocaine Only			Deaths with Cocaine in Combination with Other Drugs		
District	Area of Florida	Total	Cause	Present	Total	Cause	Present	Total	Cause	Present
1	Pensacola	58	33	25	16	11	5	42	22	20
2	Tallahassee	15	11	4	6	4	2	9	7	2
3	Live Oak	4	2	2	0	0	0	4	2	2
4	Jacksonville	359	238	121	38	23	15	321	215	106
5	Leesburg	109	72	37	15	11	4	94	61	33
6	St. Petersburg	187	113	74	27	17	10	160	96	64
7	Daytona Beach	88	39	49	11	8	3	77	31	46
8	Gainesville	43	24	19	10	5	5	33	19	14
9	Orlando	234	161	73	33	16	17	201	145	56
10	Lakeland	70	51	19	18	15	3	52	36	16
11	Miami	401	256	145	40	16	24	361	240	121
12	Sarasota	132	96	36	17	11	6	115	85	30
13	Tampa	109	54	55	23	6	17	86	48	38
14	Panama City	15	5	10	2	0	2	13	5	8
15	West Palm Beach	417	279	138	45	29	16	372	250	122
16	Florida Keys	20	7	13	5	2	3	15	5	10
17	Ft. Lauderdale	321	245	76	42	28	14	279	217	62
18	Melbourne	128	97	31	13	6	7	115	91	24
19	Ft. Pierce	88	46	42	10	7	3	78	39	39
20	Naples	32	19	13	5	4	1	27	15	12
21	Ft. Myers	152	95	57	15	10	5	137	85	52
22	Port Charlotte	13	3	10	1	1	0	12	2	10
23	St. Augustine	39	9	30	3	0	3	36	9	27
24	Sanford	41	26	15	7	5	2	34	21	13
25	Kissimmee	54	31	23	5	2	3	49	29	20
Statewide Totals		**3,129**	**2,012**	**1,117**	**407**	**237**	**170**	**2,722**	**1,775**	**947**

Cocaine Deaths by Age

January – December 2017

Medical Examiner District and Area of Florida			Cocaine Caused Death						Cocaine Present at Death					
			Age of Decedent						*Age of Decedent*					
District	Area of Florida	Total	Total	<18	18-25	26-34	35-50	>50	Total	<18	18-25	26-34	35-50	>50
1	Pensacola	58	33	0	3	4	12	14	25	0	2	8	11	4
2	Tallahassee	15	11	0	0	1	4	6	4	0	0	0	2	2
3	Live Oak	4	2	0	0	1	0	1	2	0	1	0	1	0
4	Jacksonville	359	238	3	17	68	79	71	121	0	8	44	34	35
5	Leesburg	109	72	0	4	19	25	24	37	1	3	11	10	12
6	St. Petersburg	187	113	1	5	23	43	41	74	0	13	16	26	19
7	Daytona Beach	88	39	0	1	8	19	11	49	0	3	13	21	12
8	Gainesville	43	24	0	2	3	12	7	19	0	3	3	7	6
9	Orlando	234	161	0	12	43	67	39	73	3	8	12	28	22
10	Lakeland	70	51	0	6	5	16	24	19	0	1	5	8	5
11	Miami	401	256	2	30	43	80	101	145	1	19	32	45	48
12	Sarasota	132	96	1	7	23	41	24	36	0	3	9	17	7
13	Tampa	109	54	0	2	7	20	25	55	1	6	9	22	17
14	Panama City	15	5	0	1	0	2	2	10	0	3	2	3	2
15	West Palm Beach	417	279	0	31	77	106	65	138	2	21	34	48	33
16	Florida Keys	20	7	0	0	1	3	3	13	0	0	6	4	3
17	Ft. Lauderdale	321	245	0	31	59	91	64	76	1	11	16	32	16
18	Melbourne	128	97	2	5	27	36	27	31	2	3	8	10	8
19	Ft. Pierce	88	46	0	1	14	13	18	42	0	4	11	9	18
20	Naples	32	19	0	3	3	8	5	13	0	3	6	3	1
21	Ft. Myers	152	95	0	5	33	36	21	57	0	10	17	14	16
22	Port Charlotte	13	3	0	0	0	2	1	10	0	0	4	2	4
23	St. Augustine	39	9	0	2	4	0	3	30	0	3	7	12	8
24	Sanford	41	26	0	0	12	5	9	15	0	4	2	8	1
25	Kissimmee	54	31	0	3	9	17	2	23	0	4	7	8	4
Statewide Totals		**3,129**	**2,012**	**9**	**171**	**487**	**737**	**608**	**1,117**	**11**	**136**	**282**	**385**	**303**

Cocaine Deaths by County
2017



Occurrences
Per 100,000 Population

- 0
- 0.01 - 4.99
- 5.00 - 9.99
- 10.00 - 14.99
- 15.00 - 19.99
- 20.00 - 24.99
- > 25.00

Cocaine Related Deaths by Medical Examiner District

(Present and Cause)

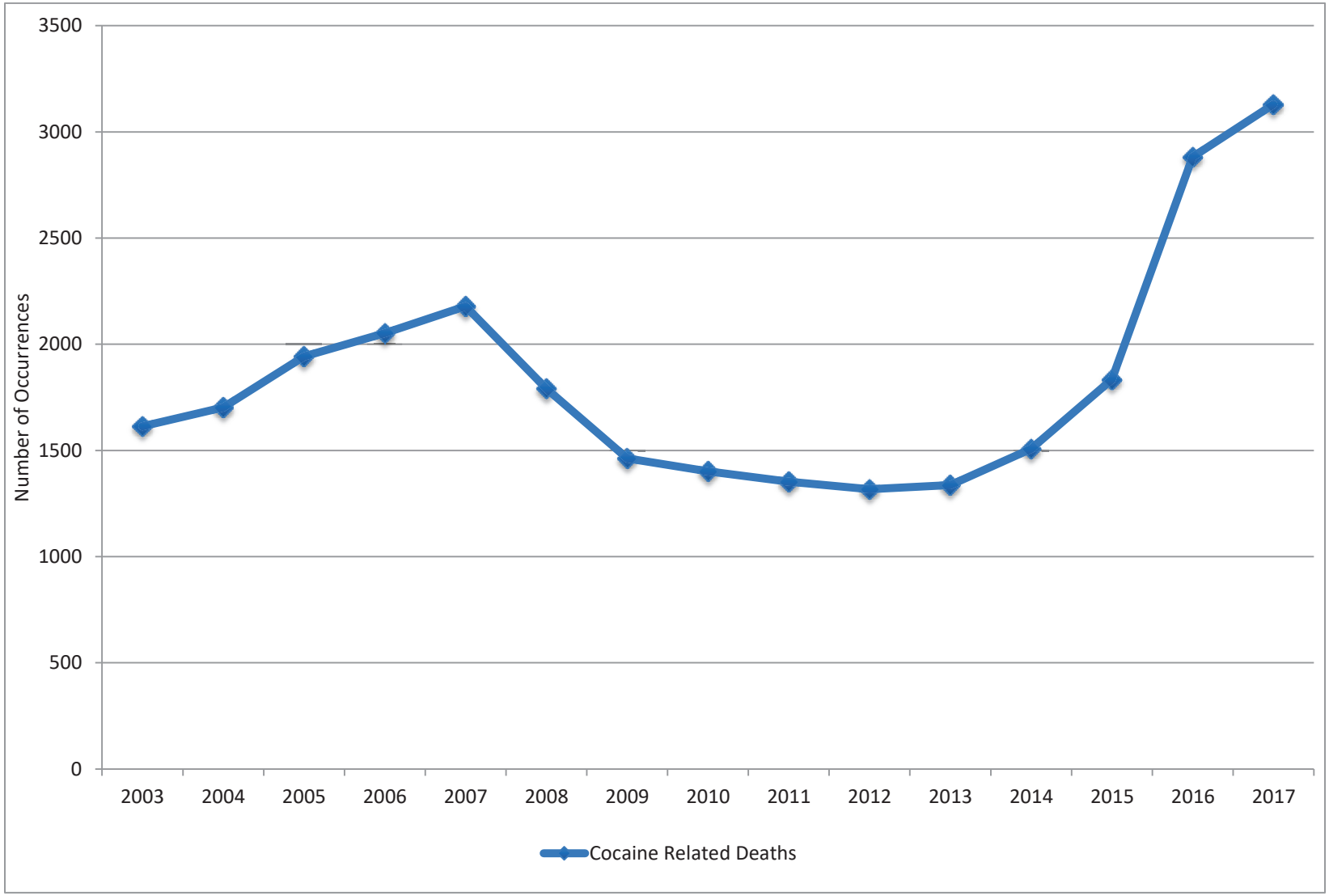
2003 to 2017

District	Area of Florida	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
1	Pensacola	46	59	69	78	76	56	33	36	34	34	31	56	80	57	58
2	Tallahassee	43	38	58	51	40	27	30	25	36	25	23	20	18	32	15
3	Live Oak	13	22	19	16	10	13	16	9	8	13	10	6	5	10	4
4	Jacksonville	184	205	195	246	248	165	125	115	113	119	119	107	146	266	359
5	Leesburg	56	69	60	21	45	67	56	52	48	46	57	62	54	128	109
6	St. Petersburg	116	150	138	185	173	154	139	134	112	125	100	98	101	157	187
7	Daytona Beach	42	43	77	64	84	51	58	44	43	36	37	34	37	51	88
8	Gainesville	45	43	48	47	42	32	39	39	34	30	29	30	31	41	43
9	Orlando	124	136	165	178	190	179	145	128	124	120	137	181	203	230	234
10	Lakeland	43	46	75	53	41	40	35	42	29	27	37	33	33	53	70
11	Miami	189	160	162	182	281	201	155	198	184	198	226	234	289	439	401
12	Sarasota	83	69	83	106	105	75	59	57	54	60	60	84	134	147	132
13	Tampa	81	108	115	130	158	146	54	83	96	59	74	65	84	108	109
14	Panama City	31	22	24	32	31	17	20	9	9	10	11	13	15	5	15
15	West Palm Beach	147	151	197	191	168	143	126	106	91	87	105	143	173	405	417
16	Florida Keys	11	10	18	16	27	15	14	11	7	13	4	6	13	20	20
17	Ft. Lauderdale	138	120	136	150	157	146	135	127	115	129	102	99	152	328	321
18	Melbourne	66	62	84	80	62	68	59	49	38	52	53	60	86	103	128
19	Ft. Pierce	33	43	58	45	46	47	35	20	40	24	34	50	49	71	88
20	Naples	15	21	24	34	29	15	21	13	23	16	10	29	23	40	32
21	Ft. Myers	68	84	78	96	79	67	48	53	73	56	51	63	71	99	152
22	Port Charlotte	3	10	14	14	19	14	9	5	7	9	2	10	12	9	13
23	St. Augustine	24	20	24	17	33	27	19	23	15	11	11	1	9	23	39
24	Sanford	13	11	22	20	35	26	32	24	20	19	14	24	16	37	41
25	Kissimmee														23	54
Statewide Total		**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**	**3,129**

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)
2003 to 2017



Heroin Deaths

January – December 2017

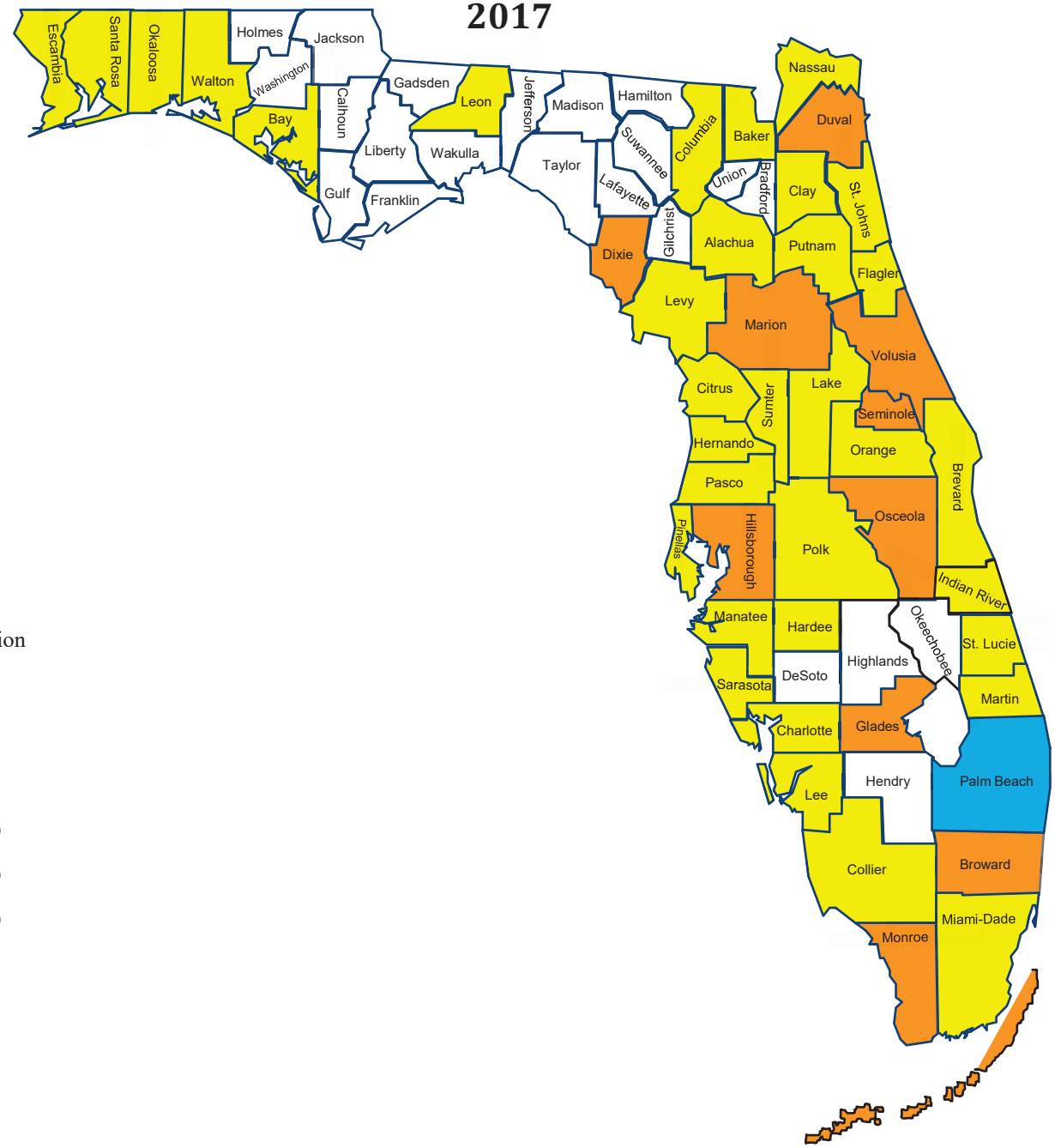
Medical Examiner District and Area of Florida		Total Deaths with Heroin			Deaths with Heroin Only			Deaths with Heroin in Combination with Other Drugs		
District	Area of Florida	Total	Cause	Present	Total	Cause	Present	Total	Cause	Present
1	Pensacola	30	24	6	0	0	0	30	24	6
2	Tallahassee	2	1	1	0	0	0	2	1	1
3	Live Oak	2	2	0	0	0	0	2	2	0
4	Jacksonville	98	93	5	1	1	0	97	92	5
5	Leesburg	34	33	1	0	0	0	34	33	1
6	St. Petersburg	22	20	2	0	0	0	22	20	2
7	Daytona Beach	37	30	7	0	0	0	37	30	7
8	Gainesville	4	4	0	0	0	0	4	4	0
9	Orlando	59	56	3	0	0	0	59	56	3
10	Lakeland	10	10	0	0	0	0	10	10	0
11	Miami	97	95	2	0	0	0	97	95	2
12	Sarasota	22	15	7	0	0	0	22	15	7
13	Tampa	75	68	7	0	0	0	75	68	7
14	Panama City	4	4	0	0	0	0	4	4	0
15	West Palm Beach	215	177	38	3	3	0	212	174	38
16	Florida Keys	4	2	2	0	0	0	4	2	2
17	Ft. Lauderdale	186	163	23	4	4	0	182	159	23
18	Melbourne	25	23	2	0	0	0	25	23	2
19	Ft. Pierce	13	11	2	0	0	0	13	11	2
20	Naples	15	14	1	0	0	0	15	14	1
21	Ft. Myers	34	34	0	0	0	0	34	34	0
22	Port Charlotte	1	1	0	0	0	0	1	1	0
23	St. Augustine	14	12	2	1	1	0	13	11	2
24	Sanford	33	33	0	0	0	0	33	33	0
25	Kissimmee	21	19	2	0	0	0	21	19	2
Statewide Totals		**1,057**	**944**	**113**	**9**	**9**	**0**	**1,048**	**935**	**113**

Heroin Deaths by Age

January – December 2017

Medical Examiner District and Area of Florida			Heroin Caused Death						Heroin Present at Death					
			Age of Decedent						*Age of Decedent*					
District	Area of Florida	Total	Total	<18	18-25	26-34	35-50	>50	Total	<18	18-25	26-34	35-50	>50
1	Pensacola	30	24	0	2	10	11	1	6	0	1	2	1	2
2	Tallahassee	2	1	0	0	1	0	0	1	0	0	0	1	0
3	Live Oak	2	2	0	0	0	0	2	0	0	0	0	0	0
4	Jacksonville	98	93	0	9	36	31	17	5	0	0	3	0	2
5	Leesburg	34	33	0	1	15	10	7	1	0	0	0	1	0
6	St. Petersburg	22	20	0	2	10	8	0	2	0	0	1	1	0
7	Daytona Beach	37	30	0	1	13	13	3	7	0	1	2	2	2
8	Gainesville	4	4	0	0	1	1	2	0	0	0	0	0	0
9	Orlando	59	56	0	5	14	25	12	3	0	0	0	0	3
10	Lakeland	10	10	0	2	2	5	1	0	0	0	0	0	0
11	Miami	97	95	1	14	22	33	25	2	0	0	1	0	1
12	Sarasota	22	15	1	0	4	9	1	7	0	1	2	2	2
13	Tampa	75	68	1	3	16	29	19	7	0	0	2	3	2
14	Panama City	4	4	0	1	2	1	0	0	0	0	0	0	0
15	West Palm Beach	215	177	0	22	62	46	47	38	0	11	10	14	3
16	Florida Keys	4	2	0	0	0	2	0	2	0	0	0	1	1
17	Ft. Lauderdale	186	163	0	28	44	61	30	23	0	2	12	8	1
18	Melbourne	25	23	1	0	8	9	5	2	0	0	0	1	1
19	Ft. Pierce	13	11	0	2	4	2	3	2	0	0	0	1	1
20	Naples	15	14	0	1	4	6	3	1	0	0	1	0	0
21	Ft. Myers	34	34	0	6	12	7	9	0	0	0	0	0	0
22	Port Charlotte	1	1	0	0	1	0	0	0	0	0	0	0	0
23	St. Augustine	14	12	0	1	3	5	3	2	0	0	1	0	1
24	Sanford	33	33	0	2	12	13	6	0	0	0	0	0	0
25	Kissimmee	21	19	0	2	8	9	0	2	0	0	0	1	1
Statewide Totals		**1,057**	**944**	**4**	**104**	**304**	**336**	**196**	**113**	**0**	**16**	**37**	**37**	**23**

Heroin Deaths by County
2017



Occurrences
Per 100,000 Population

- 0
- 0.01 - 4.99
- 5.00 - 9.99
- 10.00 - 14.99
- 15.00 - 19.99
- 20.00 - 24.99
- > 25.00

Heroin Related Deaths by Medical Examiner District

(Present and Cause)

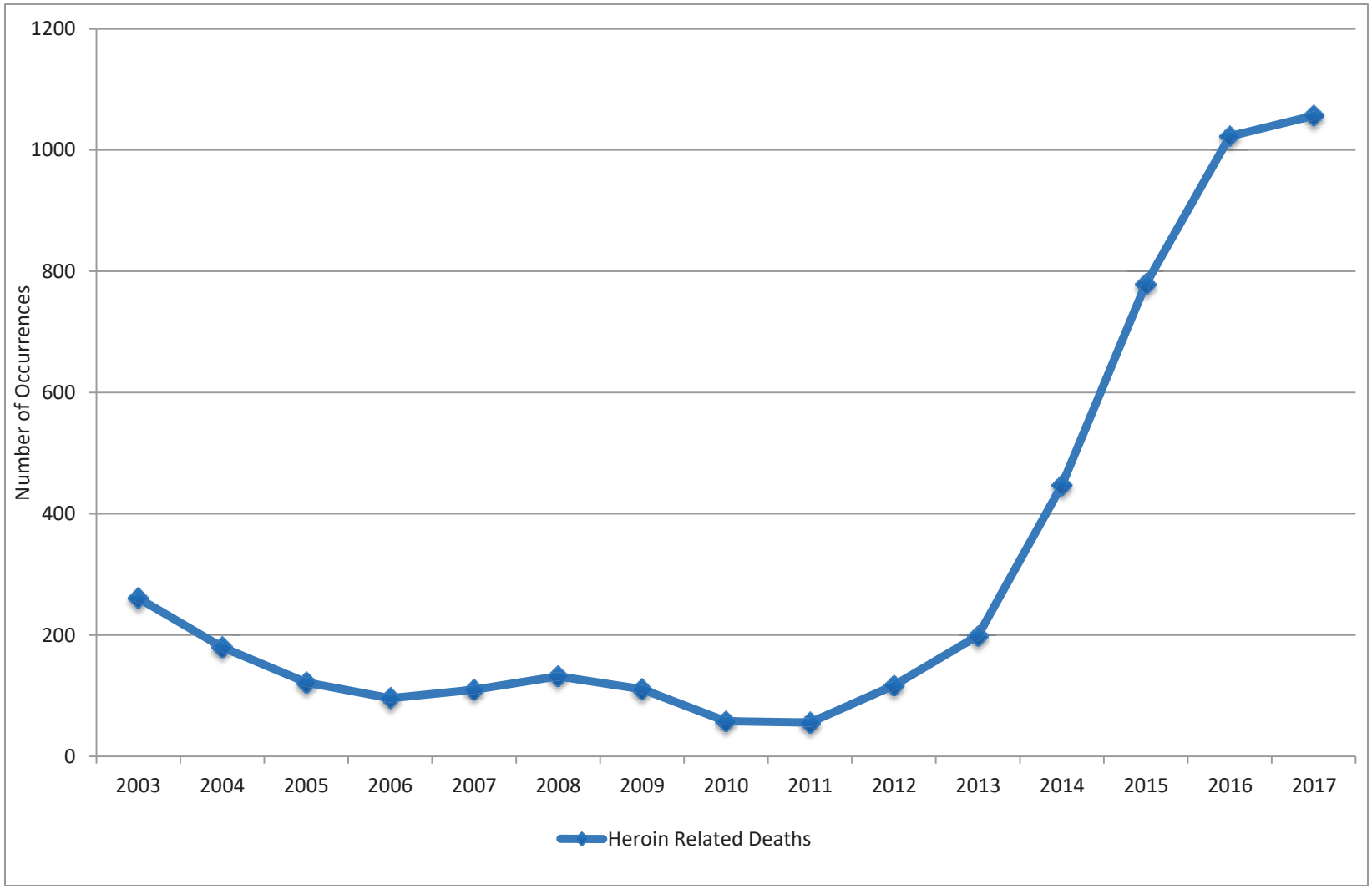
2003 to 2017

District	Area of Florida	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
1	Pensacola	0	0	0	1	0	1	2	0	0	1	3	12	28	34	30
2	Tallahassee	1	0	0	0	0	0	0	0	1	0	1	2	0	1	2
3	Live Oak	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2
4	Jacksonville	7	5	5	4	8	3	4	1	3	14	15	16	45	81	98
5	Leesburg	2	1	0	0	0	5	1	0	1	3	2	16	8	40	34
6	St. Petersburg	23	14	13	7	12	5	9	3	1	1	4	7	14	18	22
7	Daytona Beach	6	4	2	1	2	0	3	1	0	1	3	4	20	21	37
8	Gainesville	0	0	0	0	0	0	0	0	0	2	1	2	3	2	4
9	Orlando	38	22	15	7	16	16	24	10	18	26	41	83	108	68	59
10	Lakeland	0	3	2	2	0	0	2	1	0	1	4	7	10	11	10
11	Miami	32	18	22	20	26	38	30	26	15	33	40	60	92	139	97
12	Sarasota	20	15	9	14	4	19	4	2	2	8	19	55	68	32	22
13	Tampa	19	14	6	7	11	5	2	1	2	2	3	22	35	52	75
14	Panama City	0	0	0	0	1	0	0	1	0	0	2	2	4	8	4
15	West Palm Beach	28	29	19	8	10	7	7	4	6	6	20	51	165	205	215
16	Florida Keys	0	1	0	1	0	1	1	0	0	1	1	0	1	7	4
17	Ft. Lauderdale	49	35	17	13	4	17	8	5	3	9	11	28	80	180	186
18	Melbourne	10	3	2	1	1	1	2	0	0	0	2	7	12	21	25
19	Ft. Pierce	3	3	1	3	3	3	1	1	1	2	3	7	8	7	13
20	Naples	3	4	1	4	1	1	0	0	0	0	2	14	11	15	15
21	Ft. Myers	13	4	1	2	4	7	9	0	1	4	12	30	43	30	34
22	Port Charlotte	0	1	3	1	0	0	1	0	0	1	1	3	2	3	1
23	St. Augustine	0	0	0	0	0	0	0	1	0	1	1	1	2	6	14
24	Sanford	7	4	4	0	7	3	1	1	2	1	7	18	19	27	33
25	Kissimmee														15	21
Statewide Totals		**261**	**180**	**122**	**96**	**110**	**132**	**111**	**58**	**56**	**117**	**199**	**447**	**779**	**1,023**	**1,057**

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)
2003 to 2017



Methamphetamine Deaths

January – December 2017

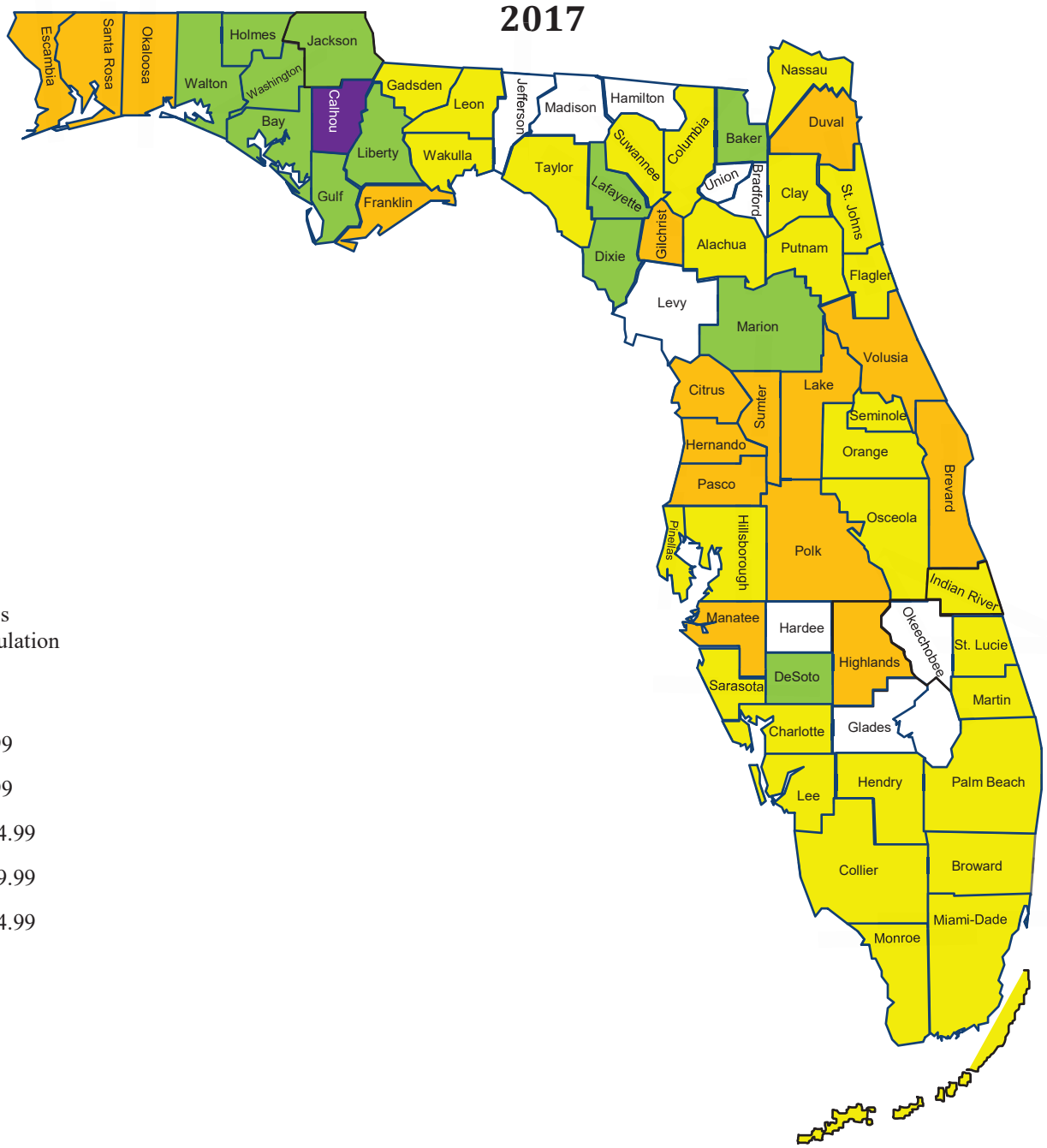
Medical Examiner District and Area of Florida		Total Deaths with Methamphetamine			Deaths with Methamphetamine Only			Deaths with Methamphetamine in Combination with Other Drugs		
District	Area of Florida	Total	Cause	Present	Total	Cause	Present	Total	Cause	Present
1	Pensacola	60	32	28	4	3	1	56	29	27
2	Tallahassee	16	4	12	0	0	0	16	4	12
3	Live Oak	6	2	4	0	0	0	6	2	4
4	Jacksonville	93	37	56	0	0	0	93	37	56
5	Leesburg	101	57	44	9	4	5	92	53	39
6	St. Petersburg	62	40	22	4	0	4	58	40	18
7	Daytona Beach	29	13	16	0	0	0	29	13	16
8	Gainesville	9	5	4	0	0	0	9	5	4
9	Orlando	38	19	19	1	1	0	37	18	19
10	Lakeland	68	50	18	5	4	1	63	46	17
11	Miami	31	18	13	1	0	1	30	18	12
12	Sarasota	48	35	13	2	2	0	46	33	13
13	Tampa	63	29	34	12	2	10	51	27	24
14	Panama City	40	18	22	1	1	0	39	17	22
15	West Palm Beach	29	11	18	0	0	0	29	11	18
16	Florida Keys	3	3	0	0	0	0	3	3	0
17	Ft. Lauderdale	19	17	2	1	1	0	18	16	2
18	Melbourne	49	31	18	1	1	0	48	30	18
19	Ft. Pierce	9	1	8	0	0	0	9	1	8
20	Naples	9	4	5	0	0	0	9	4	5
21	Ft. Myers	34	20	14	0	0	0	34	20	14
22	Port Charlotte	8	3	5	0	0	0	8	3	5
23	St. Augustine	12	4	8	0	0	0	12	4	8
24	Sanford	11	4	7	0	0	0	11	4	7
25	Kissimmee	11	7	4	2	1	1	9	6	3
Statewide Totals		**858**	**464**	**394**	**43**	**20**	**23**	**815**	**444**	**371**

Methamphetamine Deaths by Age

January – December 2017

Medical Examiner District and Area of Florida			Methamphetamine Caused Death						Methamphetamine Present at Death					
			Age of Decedent						*Age of Decedent*					
District	Area of Florida	Total	Total	<18	18-25	26-34	35-50	>50	Total	<18	18-25	26-34	35-50	>50
1	Pensacola	60	32	0	1	14	10	7	28	0	2	8	15	3
2	Tallahassee	16	4	0	0	1	2	1	12	0	1	5	5	1
3	Live Oak	6	2	0	1	0	1	0	4	0	1	0	2	1
4	Jacksonville	93	37	0	3	14	12	8	56	0	9	26	18	3
5	Leesburg	101	57	1	4	12	21	19	44	2	5	12	15	10
6	St. Petersburg	62	40	0	5	10	16	9	22	0	3	11	5	3
7	Daytona Beach	29	13	0	0	4	8	1	16	0	0	7	7	2
8	Gainesville	9	5	0	0	1	3	1	4	0	0	4	0	0
9	Orlando	38	19	0	2	7	4	6	19	1	1	5	9	3
10	Lakeland	68	50	2	3	9	15	21	18	0	3	6	7	2
11	Miami	31	18	0	0	7	6	5	13	0	2	4	6	1
12	Sarasota	48	35	0	5	11	14	5	13	0	4	3	4	2
13	Tampa	63	29	0	3	4	12	10	34	0	3	16	11	4
14	Panama City	40	18	0	2	3	11	2	22	0	5	6	8	3
15	West Palm Beach	29	11	0	1	5	4	1	18	0	3	7	3	5
16	Florida Keys	3	3	0	0	1	1	1	0	0	0	0	0	0
17	Ft. Lauderdale	19	17	0	3	7	2	5	2	0	1	0	0	1
18	Melbourne	49	31	0	3	11	14	3	18	2	2	6	7	1
19	Ft. Pierce	9	1	0	0	1	0	0	8	0	2	3	1	2
20	Naples	9	4	0	0	2	2	0	5	0	1	3	1	0
21	Ft. Myers	34	20	0	1	7	10	2	14	0	3	5	4	2
22	Port Charlotte	8	3	0	0	0	2	1	5	0	0	3	1	1
23	St. Augustine	12	4	0	0	1	2	1	8	0	0	3	4	1
24	Sanford	11	4	0	1	0	1	2	7	0	1	2	4	0
25	Kissimmee	11	7	0	1	1	5	0	4	1	0	1	2	0
Statewide Totals		**858**	**464**	**3**	**39**	**133**	**178**	**111**	**394**	**6**	**52**	**146**	**139**	**51**

Methamphetamine Deaths by County
2017



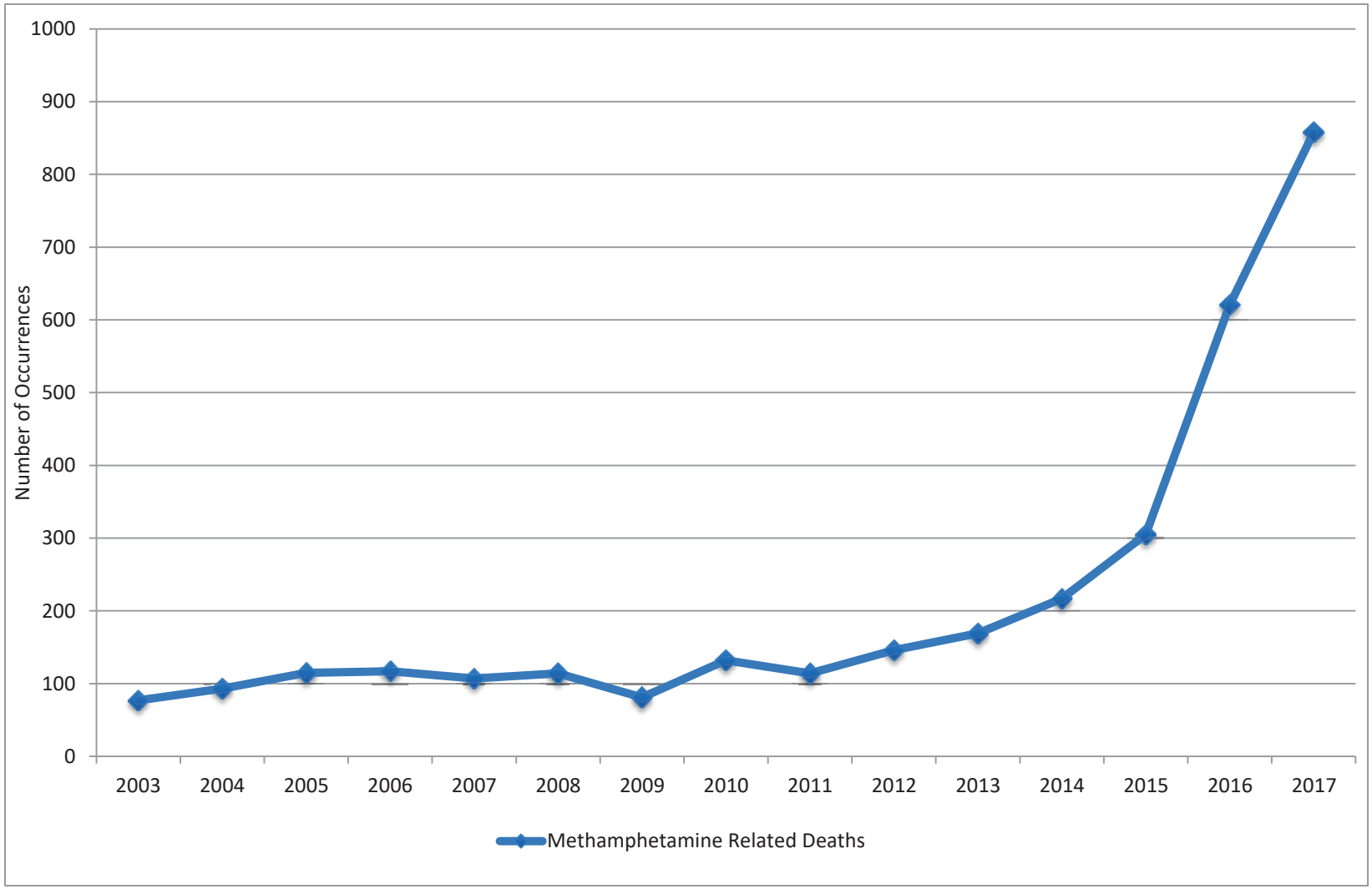
Occurrences
Per 100,000 Population

- 0
- 0.01 - 4.99
- 5.00 - 9.99
- 10.00 - 14.99
- 15.00 - 19.99
- 20.00 - 24.99
- > 25.00

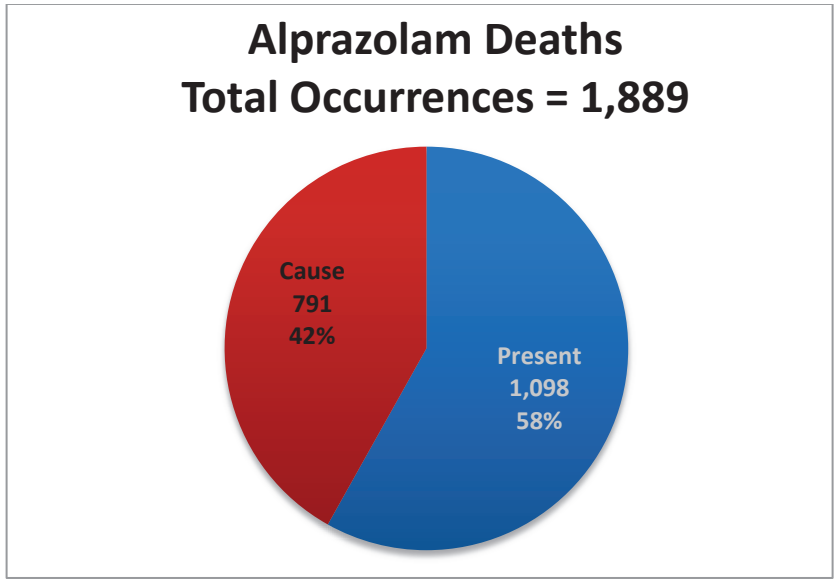
Historical Overview of Methamphetamine Occurrences

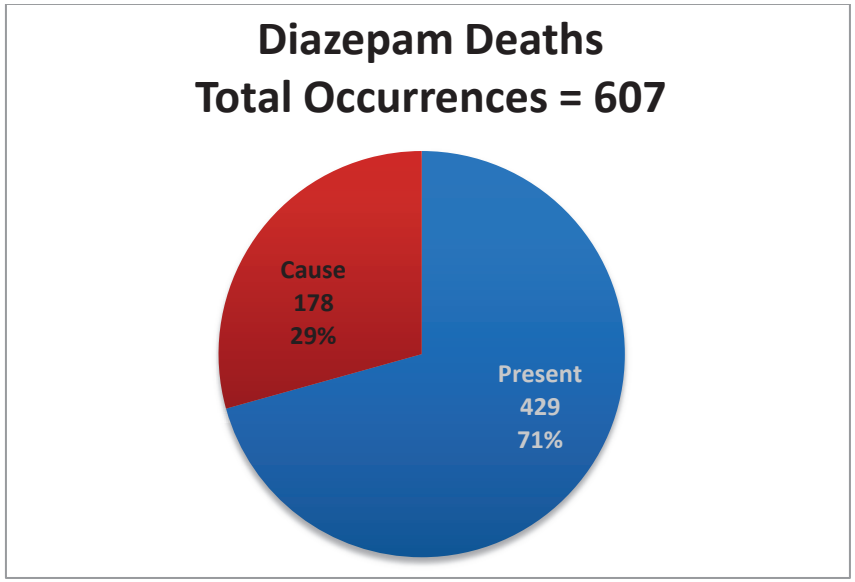
(Present and Cause)

2003 to 2017



2017 Drug Detected at Death: Cause vs. Present





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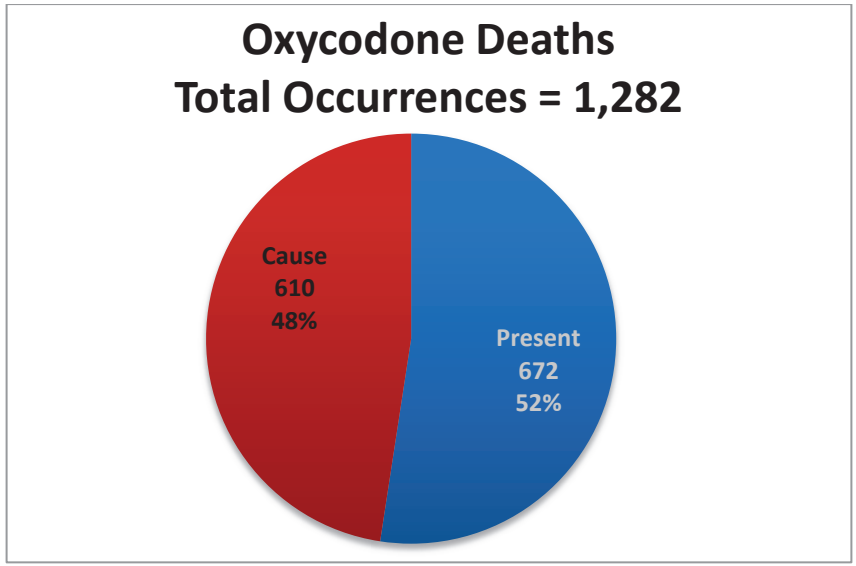
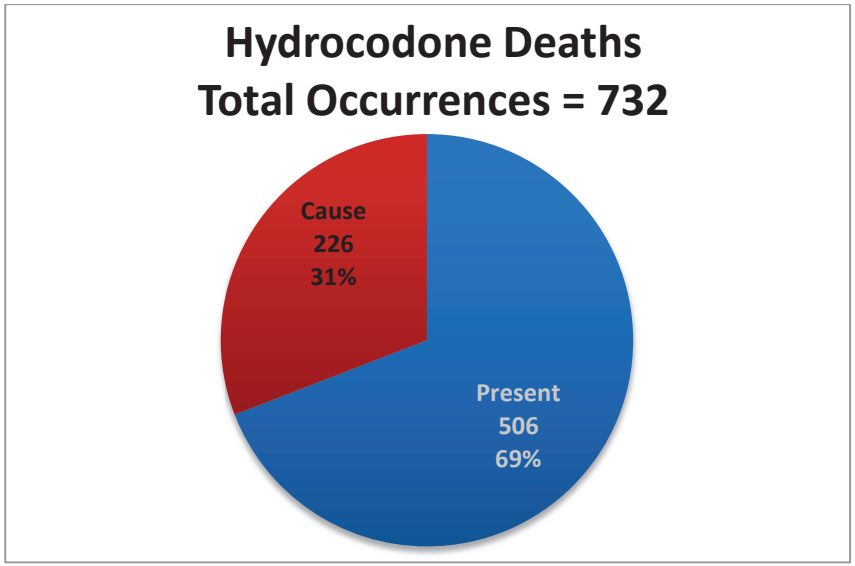
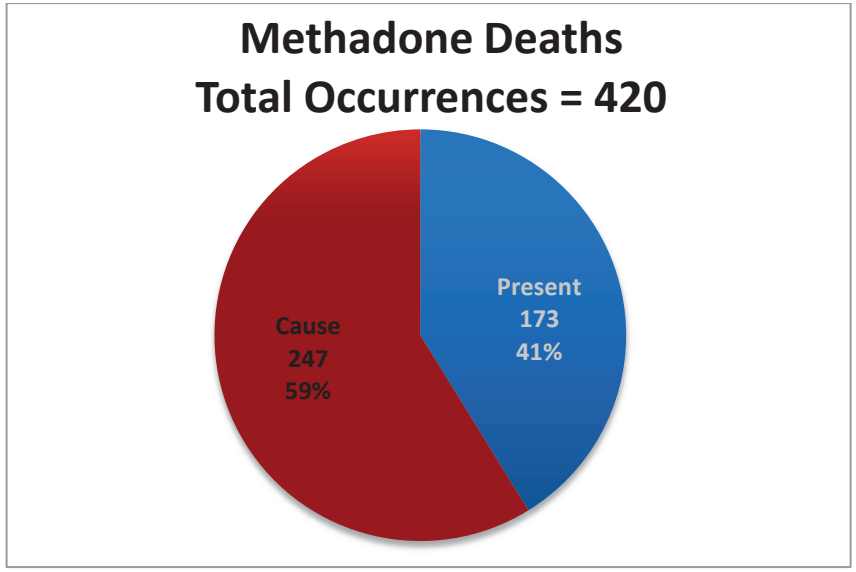
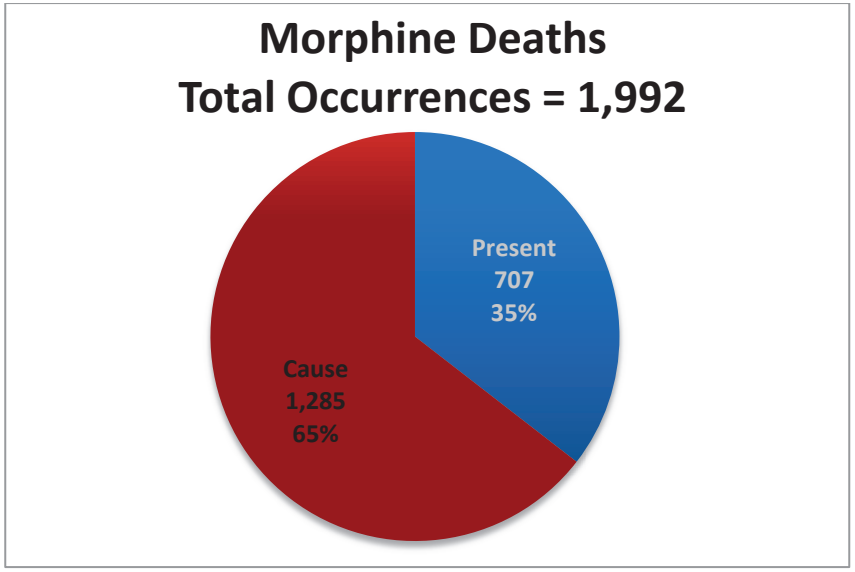
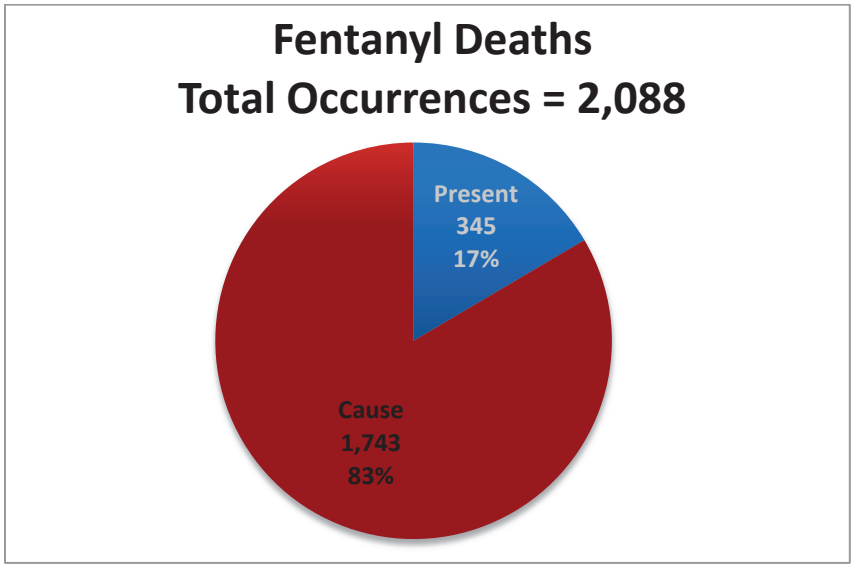


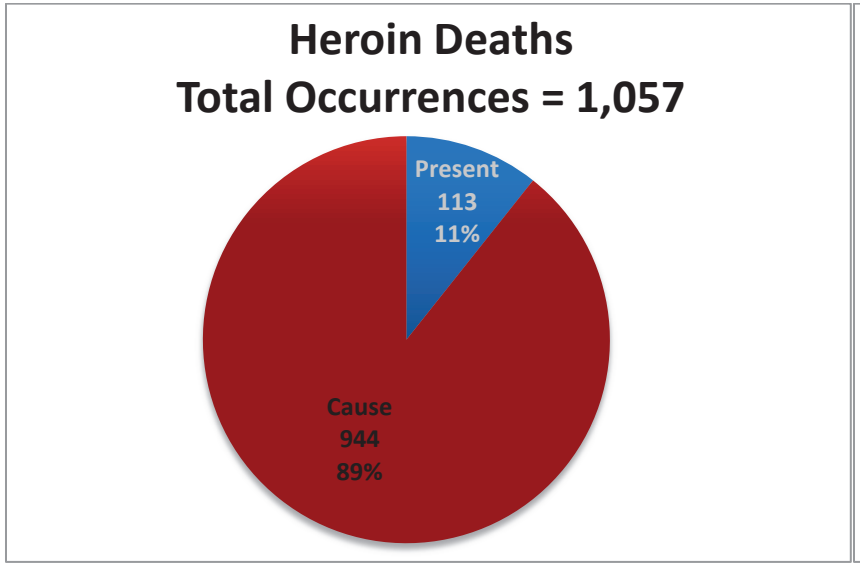


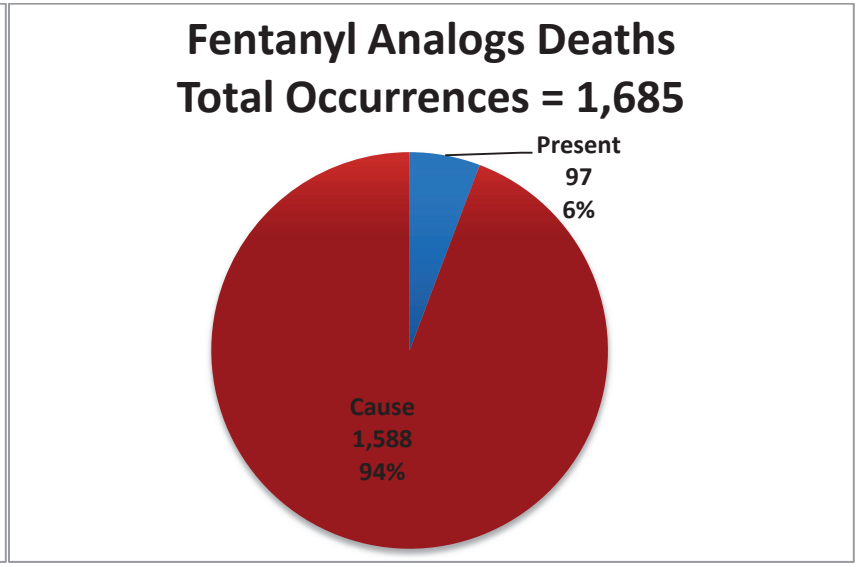




2017 Drug Detected at Death: Cause vs. Present







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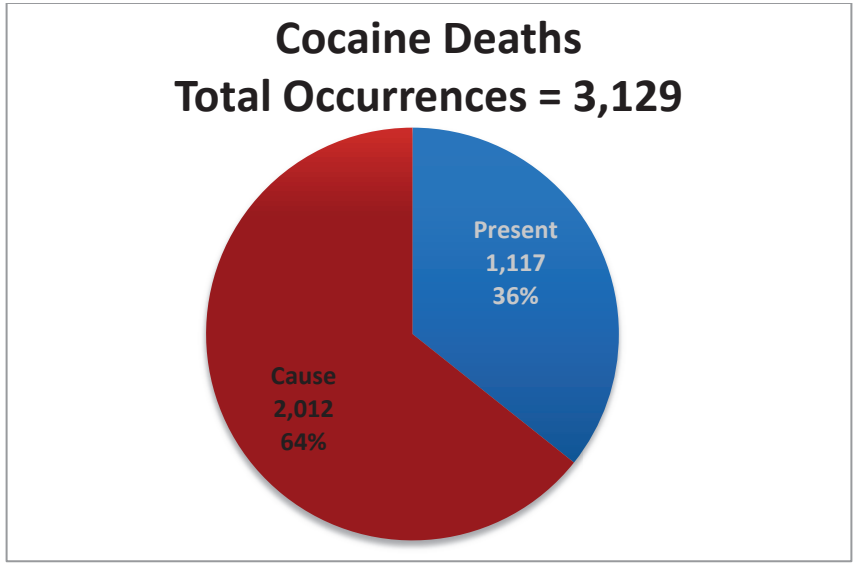
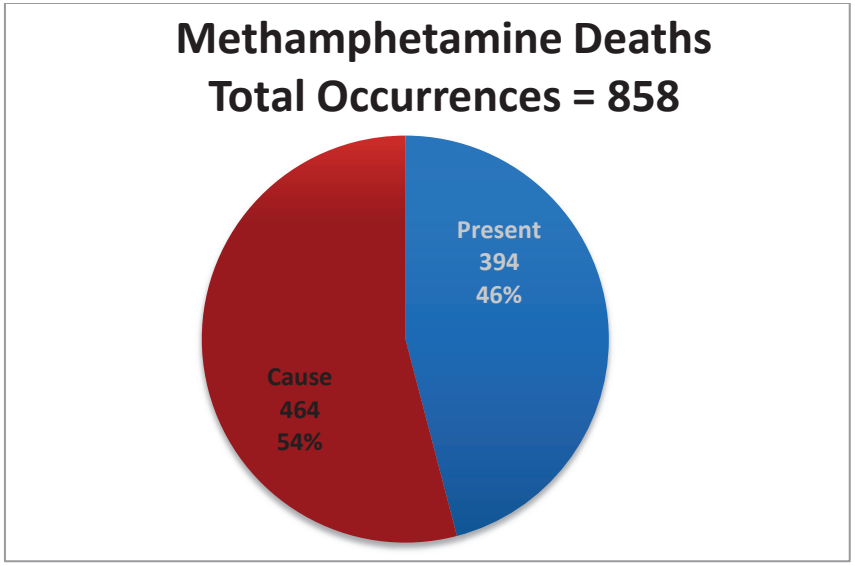
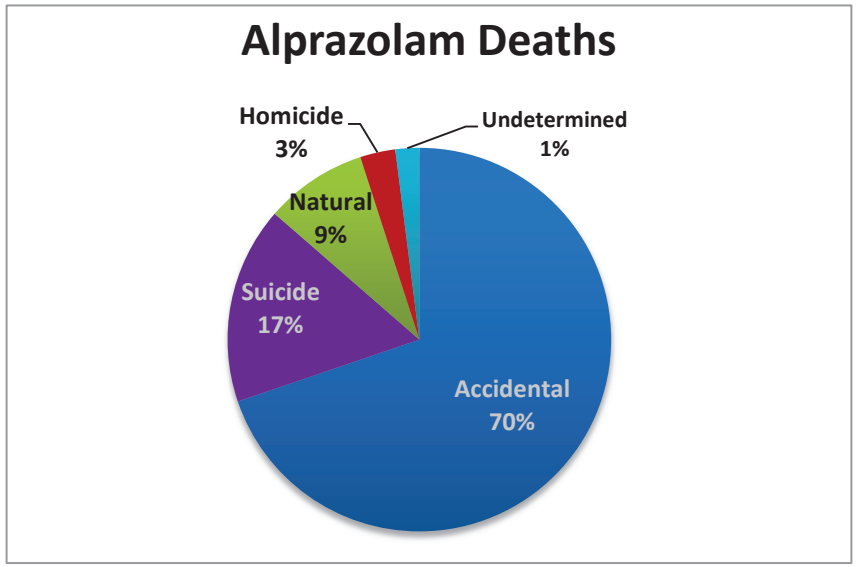
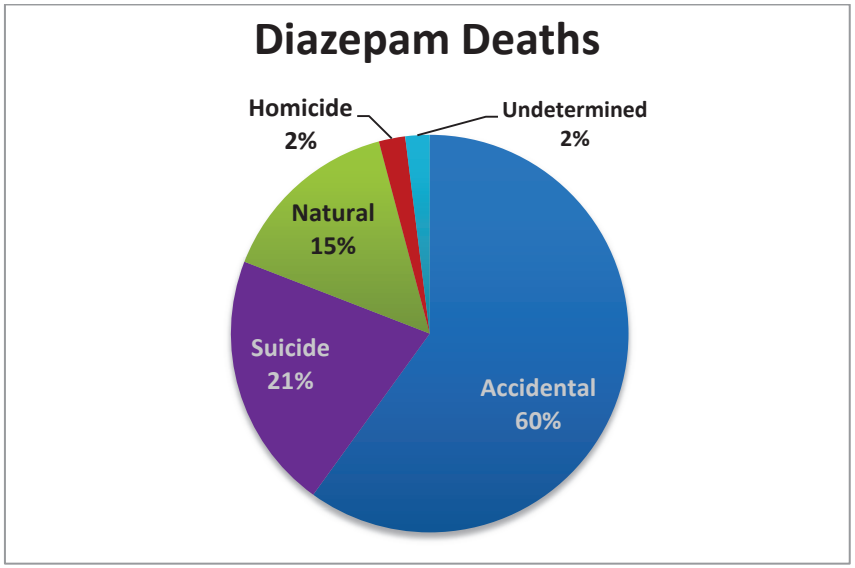




2017 Manner of Death for Cases Reported
(Accidental, Homicide, Natural, Suicide, or Undetermined)





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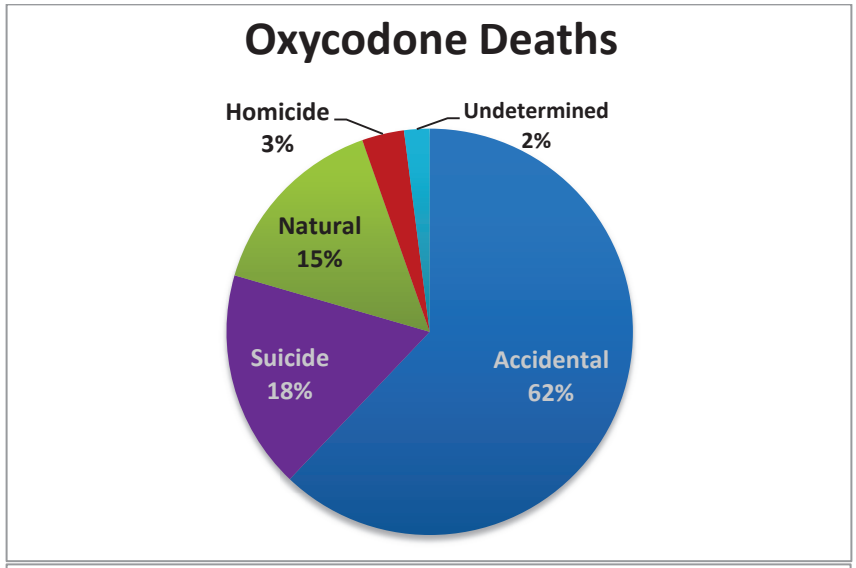

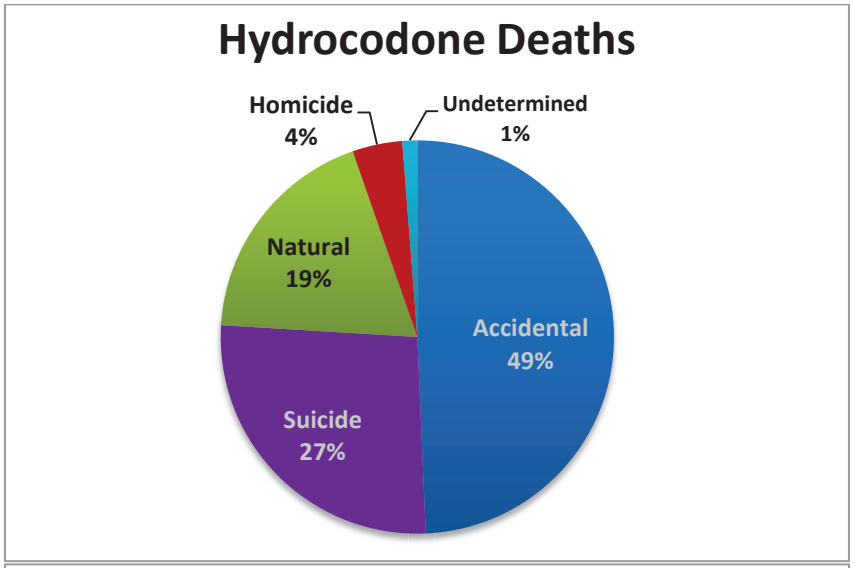

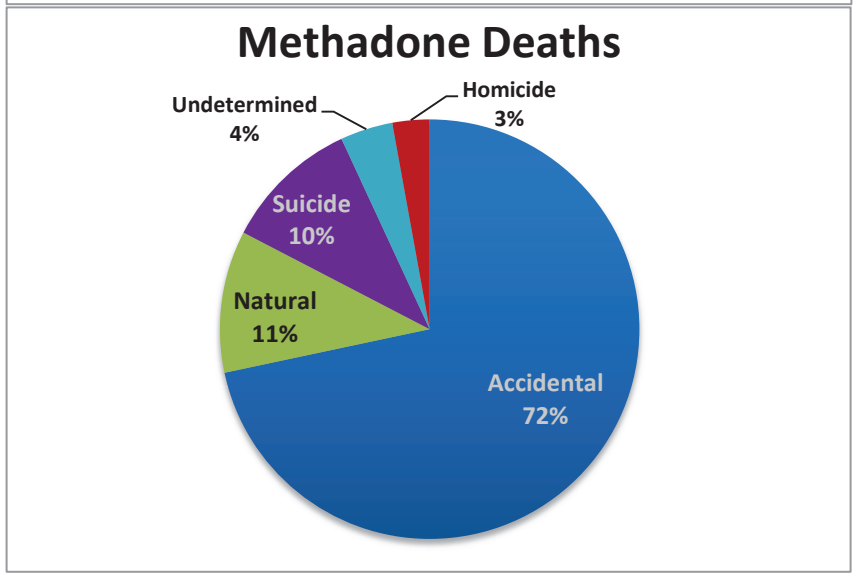

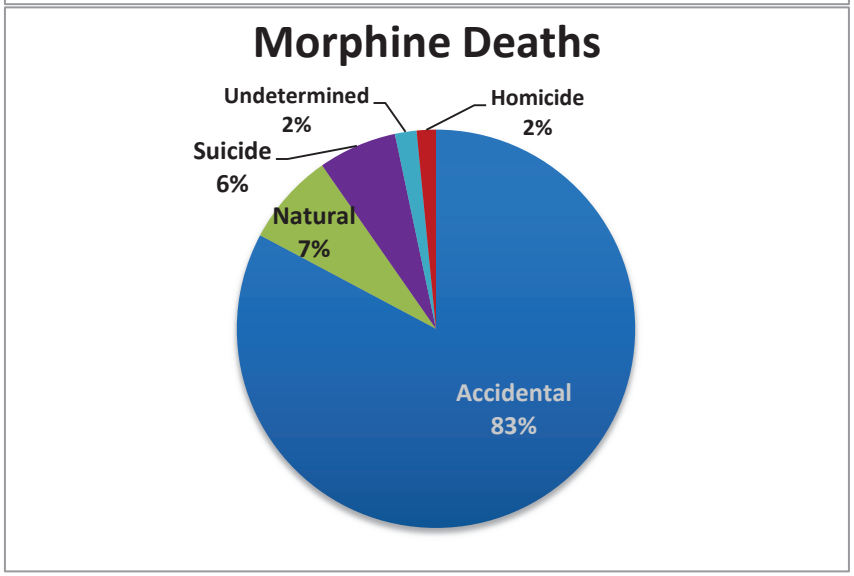

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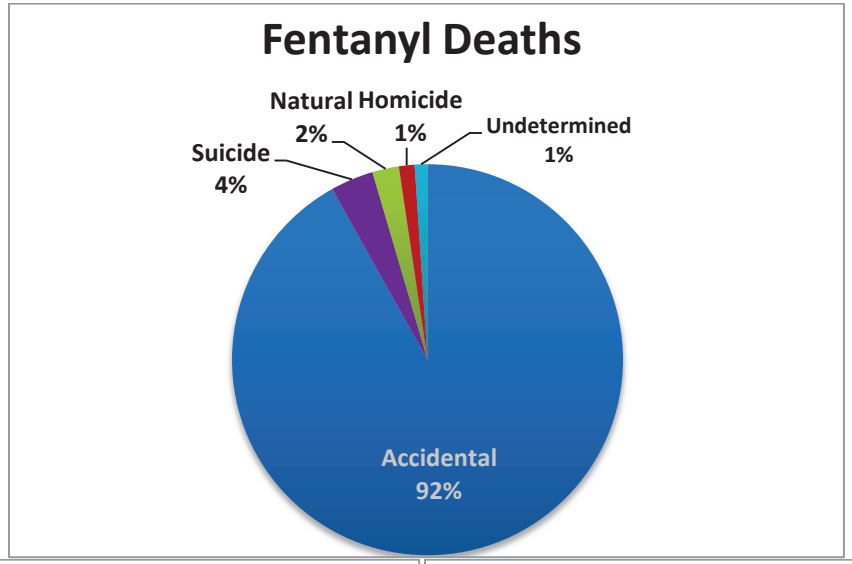

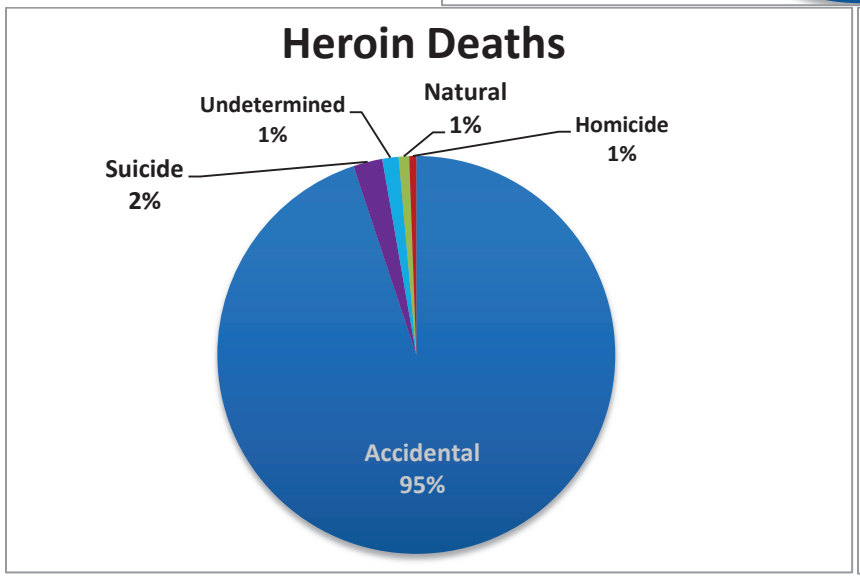

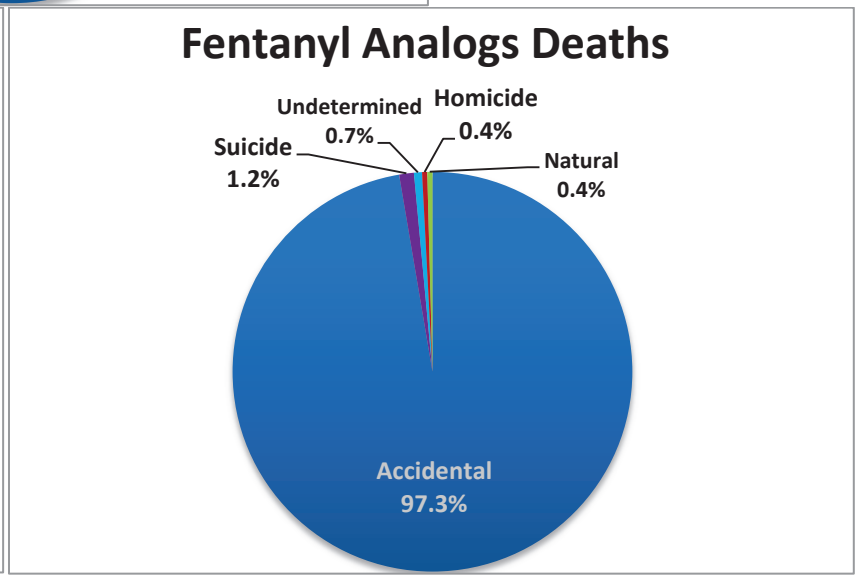

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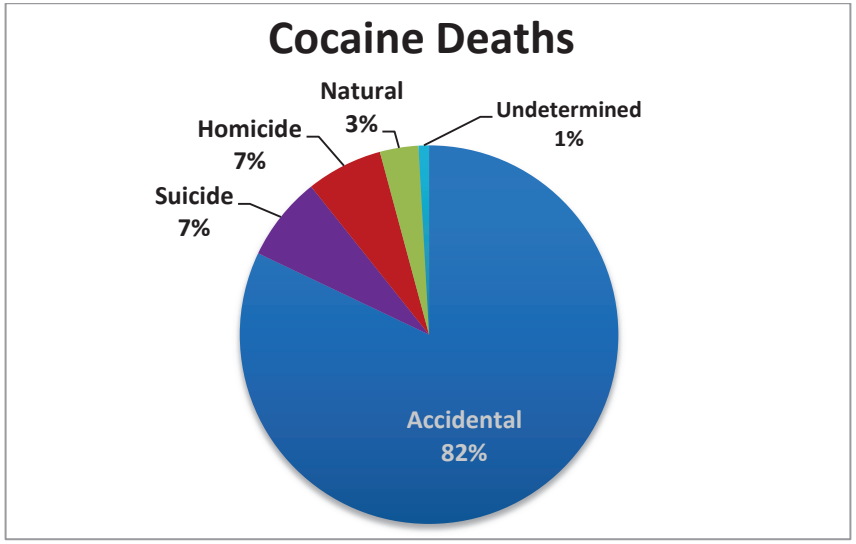

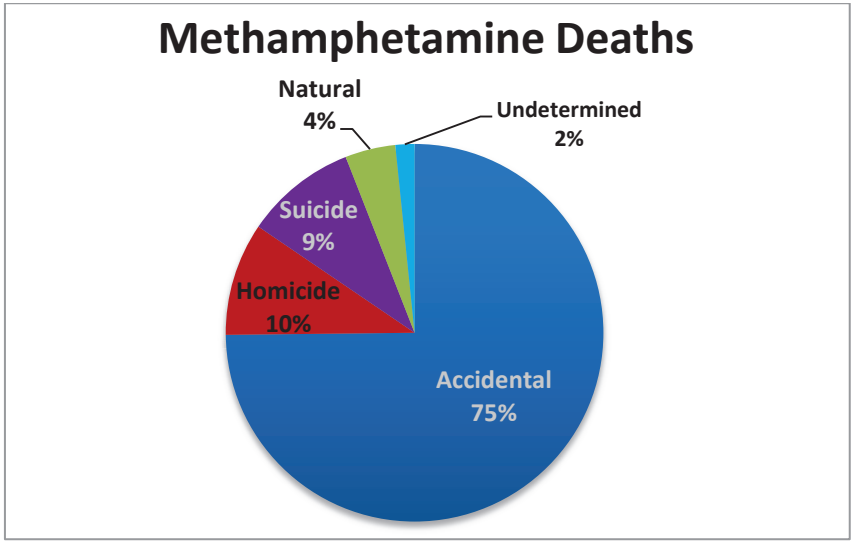

Glossary

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.

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 most 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 "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."

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.