

Drugs Identified in Deceased Persons by Florida Medical Examiners



2023 Annual Report

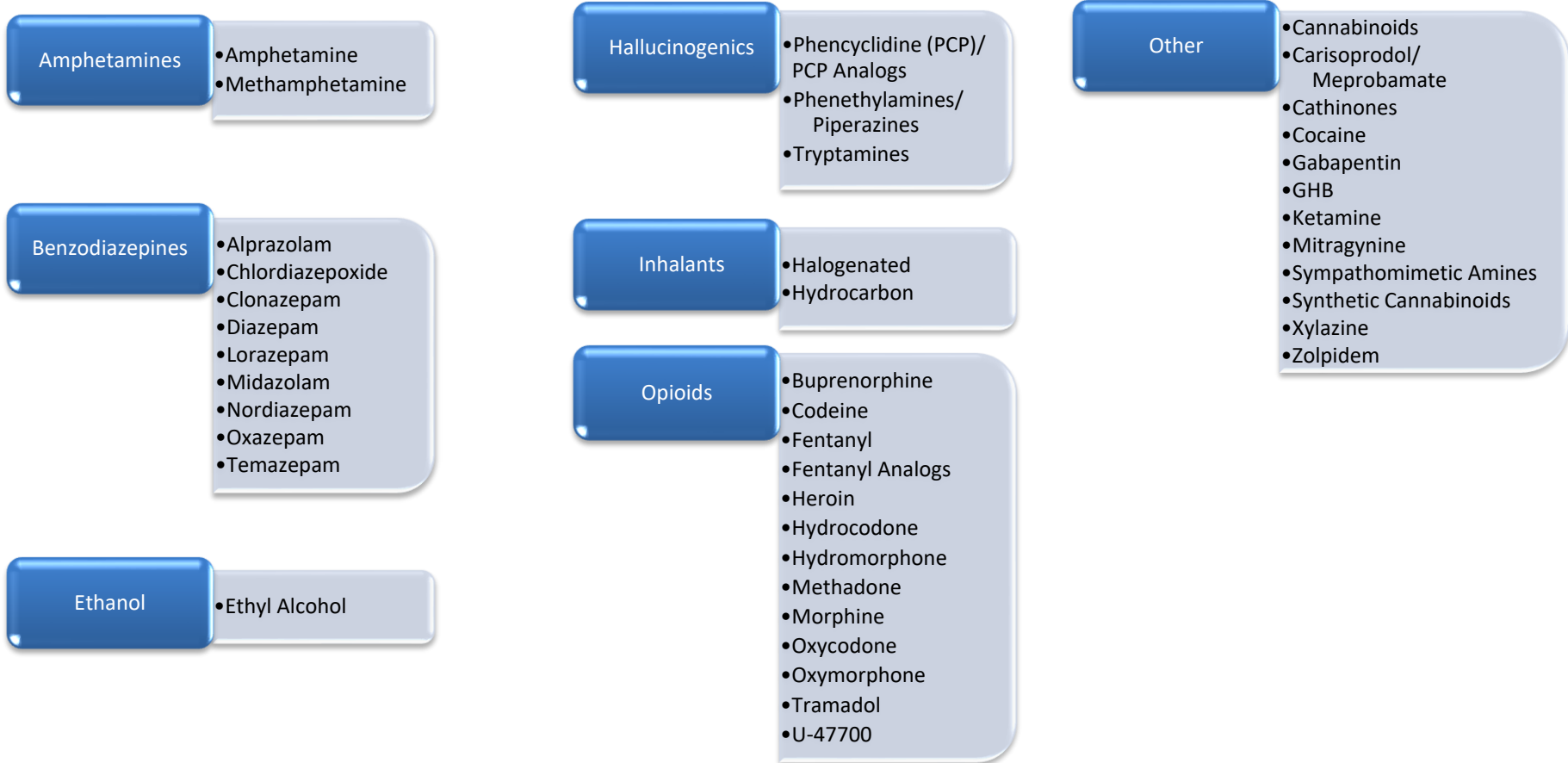
Data Collection

The State of Florida's Bureau of Vital Statistics reported 231,925 deaths in Florida during 2023. Of the 34,274 deaths investigated by Florida's medical examiners; toxicology results determined that the drugs listed below were present at the time of death in 14,798 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 14,798 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 2022 calendar year data unless otherwise noted.

- ✓ Total drug-related deaths decreased by 5 percent (794 less).
- ✓ 7,235 opioid-related deaths were reported, which is a 10 percent decrease (777 less). The opioids were identified as either the cause of death or merely present in the decedent.
- ✓ 5,476 opioid-caused deaths were reported, which is a 11 percent decrease (681 less).
- ✓ 8,461 (8 percent decrease, 769 less) 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. While fentanyl is a prescription drug, data indicates that at least 79 percent of fentanyl occurrences were illicitly obtained.
- ✓ 5,595 (10 percent decrease, 639 less) 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.
- ✓ Benzodiazepines, carisoprodol/meprobamate, zolpidem, gabapentin and all opioids excluding heroin, fentanyl analogs and U-47700 account for 48 percent of all drug occurrences in this report when ethyl alcohol is excluded.
- ✓ The most frequently occurring drugs found in decedents were ethyl alcohol (5,890), fentanyl (5,530), cocaine (3,565), benzodiazepines (3,419, including 1,106 alprazolam occurrences), cannabinoids (3,153), methamphetamine (2,682), amphetamine (2,467), oxycodone (1,015), cathinones (917), gabapentin (897), fentanyl analogs (881), morphine (635). 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 (4,962), cocaine (2,377), methamphetamine (1,983), ethyl alcohol (1,236), amphetamine (860), benzodiazepines (849, including 493 alprazolam deaths), fentanyl analogs (749) and cathinones (642). Halogenated Inhalants (93 percent), fentanyl (90 percent), fentanyl analogs (85 percent), synthetic cannabinoids (83 percent), heroin (81 percent), methamphetamine (74 percent), cathinones (70 percent), cocaine (67 percent), mitragynine (66 percent), hallucinogenic phenethylamines/piperazines (64 percent), xylazine (62 percent) and methadone (58 percent) were listed as causing death in more than 50 percent of the deaths in which these drugs were found.
- ✓ Occurrences of heroin decreased by 59 percent (134 less) and deaths caused by heroin decreased by 54.5 percent (90 less).
- ✓ Occurrences of fentanyl decreased by 11 percent (700 less) and deaths caused by fentanyl decreased by 12 percent (660 less).
- ✓ Occurrences of fentanyl analogs decreased by 12 percent (124 less) and deaths caused by fentanyl analogs decreased by 11 percent (95 less).
- ✓ Occurrences of methadone decreased by 9 percent (27 less) and deaths caused by methadone decreased by 10 percent (18 less).
- ✓ Occurrences of hydrocodone decreased by 17 percent (77 less) and deaths caused by hydrocodone decreased by 6 percent (8 less).

Highlights (continued)

- ✓ Occurrences of oxycodone increased by 0.1 percent (1 more) and deaths caused by oxycodone increased by 4 percent (16 more).
- ✓ Occurrences of buprenorphine decreased by 17 percent (39 less) and deaths caused by buprenorphine decreased by 4 percent (2 less).
- ✓ Occurrences of cocaine decreased by 9 percent (365 less) and deaths caused by cocaine decreased by 8.5 percent (221 less).
- ✓ Occurrences of morphine decreased by 26 percent (226 less) and deaths caused by morphine decreased by 39 percent (129 less).
- ✓ Occurrences of mitragynine decreased by 11 percent (34 less) and deaths caused by mitragynine increased by 6 percent (10 more).
- ✓ Occurrences of gabapentin decreased by 7 percent (70 less) and deaths caused by gabapentin decreased by 11 percent (20 less).
- ✓ Alprazolam (Xanax) still dominated the category of benzodiazepines even though occurrences decreased by 11 percent (132 less).
- ✓ Occurrences of methamphetamine decreased by 8 percent (236 less) and deaths caused by methamphetamine decreased by 10 percent (210 less). Occurrences of amphetamine decreased by 8 percent (205 less) and deaths caused by amphetamine increased by 1 percent (10 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 67 percent (368 more) and deaths caused by cathinones increased by 73.5 percent (272 more). The majority of the cathinones reported were N,N-Dimethylpentylone.
- ✓ Occurrences of xylazine increased by 17 percent (79 more) and deaths caused by xylazine increased by 27 percent (72 more).
- ✓ There was a total of 25 occurrences of difluoroethane reported in the halogenated inhalants category, which is all drug occurrences.
- ✓ *NOTE: 4-Anilino-N-phenethylpiperidine (4-ANPP, despropionyl fentanyl) is an intermediate precursor of fentanyl production, as well as a minor metabolite (1%) of fentanyl. 4-ANPP is widely considered to be pharmacologically inactive and appears to have no significant psychoactive effect. 4-ANPP appears unlikely to be a contributor to morbidity or mortality but is a valuable indicator of the recent ingestion of illicitly manufactured fentanyl or fentanyl analogs. Accordingly, 4-ANPP will not be listed as a fentanyl analog in drug reports moving forward. However, the Commission continues to request submissions of 4-ANPP occurrences.*

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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

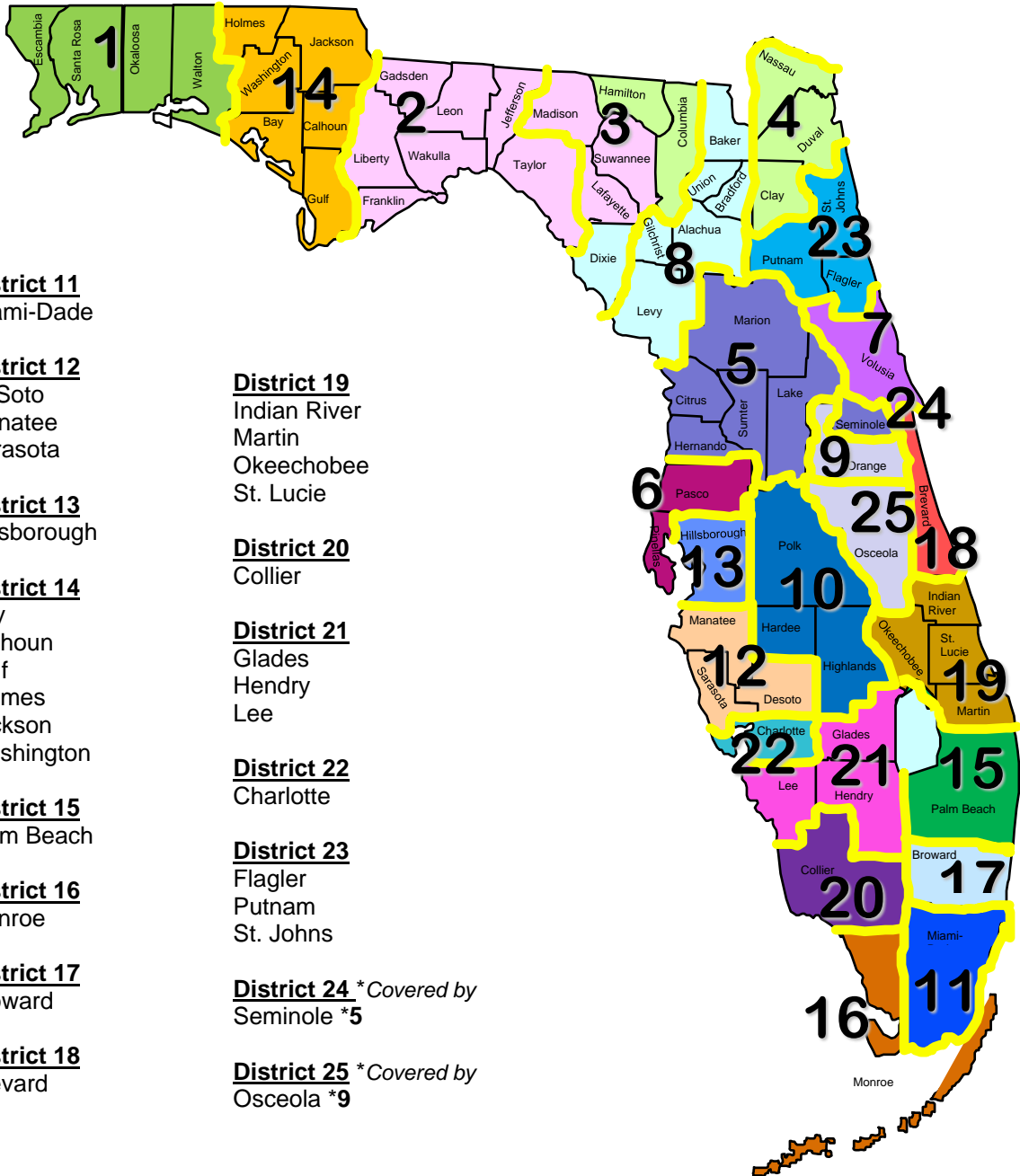
Flagler
Putnam
St. Johns

District 24 *Covered by

Seminole *5

District 25 *Covered by

Osceola *9



Summary of Drug Occurrences in Decedents 2023

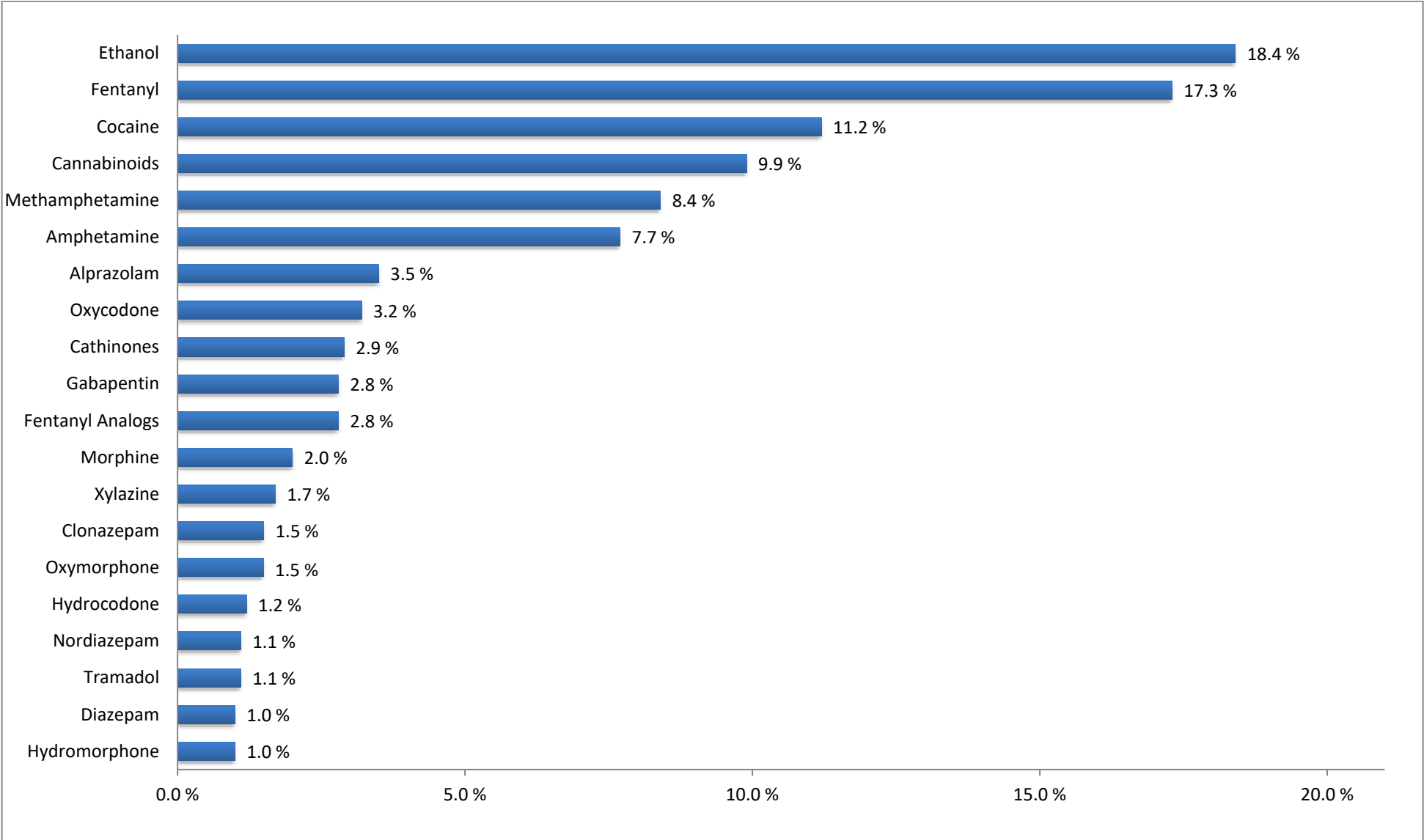
	DRUG PRESENT IN BODY	CAUSE	PRESENT	TOTAL OCCURRENCES
Amphetamines	Amphetamine	860	1,607	2,467
	Methamphetamine	1,983	699	2,682
Benzodiazepines	Alprazolam	493	613	1,106
	Chlordiazepoxide	14	81	95
	Clonazepam	116	371	487
	Diazepam	122	212	334
	Lorazepam	27	269	296
	Midazolam	6	279	285
	Nordiazepam	32	320	352
	Oxazepam	7	202	209
	Temazepam	32	223	255
Ethanol		1,236	4,654	5,890
Hallucinogenics	Phencyclidine (PCP)/PCP Analogs	0	0	0
	Phenethylamines/Piperazines	67	38	105
	Tryptamines	1	6	7
Inhalants	Halogenated	25	2	27
	Hydrocarbon	1	0	1

Summary of Drug Occurrences in Decedents (continued)

	DRUG PRESENT IN BODY	CAUSE	PRESENT	TOTAL OCCURRENCES
Opioids	Buprenorphine	46	142	188
	Codeine	24	97	121
	Fentanyl	4,962	568	5,530
	Fentanyl Analogs	749	132	881
	Heroin	75	18	93
	Hydrocodone	125	245	370
	Hydromorphone	76	238	314
	Methadone	157	113	270
	Morphine	199	436	635
	Oxycodone	448	567	1,015
	Oxymorphone	51	424	475
	Tramadol	86	252	338
U-47700	0	1	1	
Other	Cannabinoids	32	3,121	3,153
	Carisoprodol/Meprobamate	10	26	36
	Cathinones	642	275	917
	Cocaine	2,377	1,188	3,565
	GHB	1	1	2
	Gabapentin	159	738	897
	Ketamine	38	244	282
	Mitragynine	182	92	274
	Sympathomimetic Amines	4	24	28
	Synthetic Cannabinoids	15	3	18
	Xylazine	340	210	550
	Zolpidem	51	98	149

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 2023



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 2022 to 2023

DRUG PRESENT IN BODY		2022	2023	PERCENTAGE CHANGE
Amphetamines	Amphetamine	2,672	2,467	-7.7%
	Methamphetamine	2,918	2,682	-8.1%
Benzodiazepines	Alprazolam	1,238	1,106	-10.7%
	Chlordiazepoxide	70	95	35.7%
	Clonazepam	516	487	-5.6%
	Diazepam	421	334	-20.7%
	Lorazepam	294	296	0.7%
	Midazolam	273	285	4.4%
	Nordiazepam	386	352	-8.8%
	Oxazepam	230	209	-9.1%
	Temazepam	310	255	-17.7%
Ethanol		6,196	5,890	-4.9%
Hallucinogenics	Phencyclidine (PCP) / PCP Analogs	0	0	0%
	Phenethylamines/Piperazines	93	105	12.9%
	Tryptamines	3	7	*
Inhalants	Halogenated	26	27	3.8%
	Hydrocarbon	1	1	0%

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

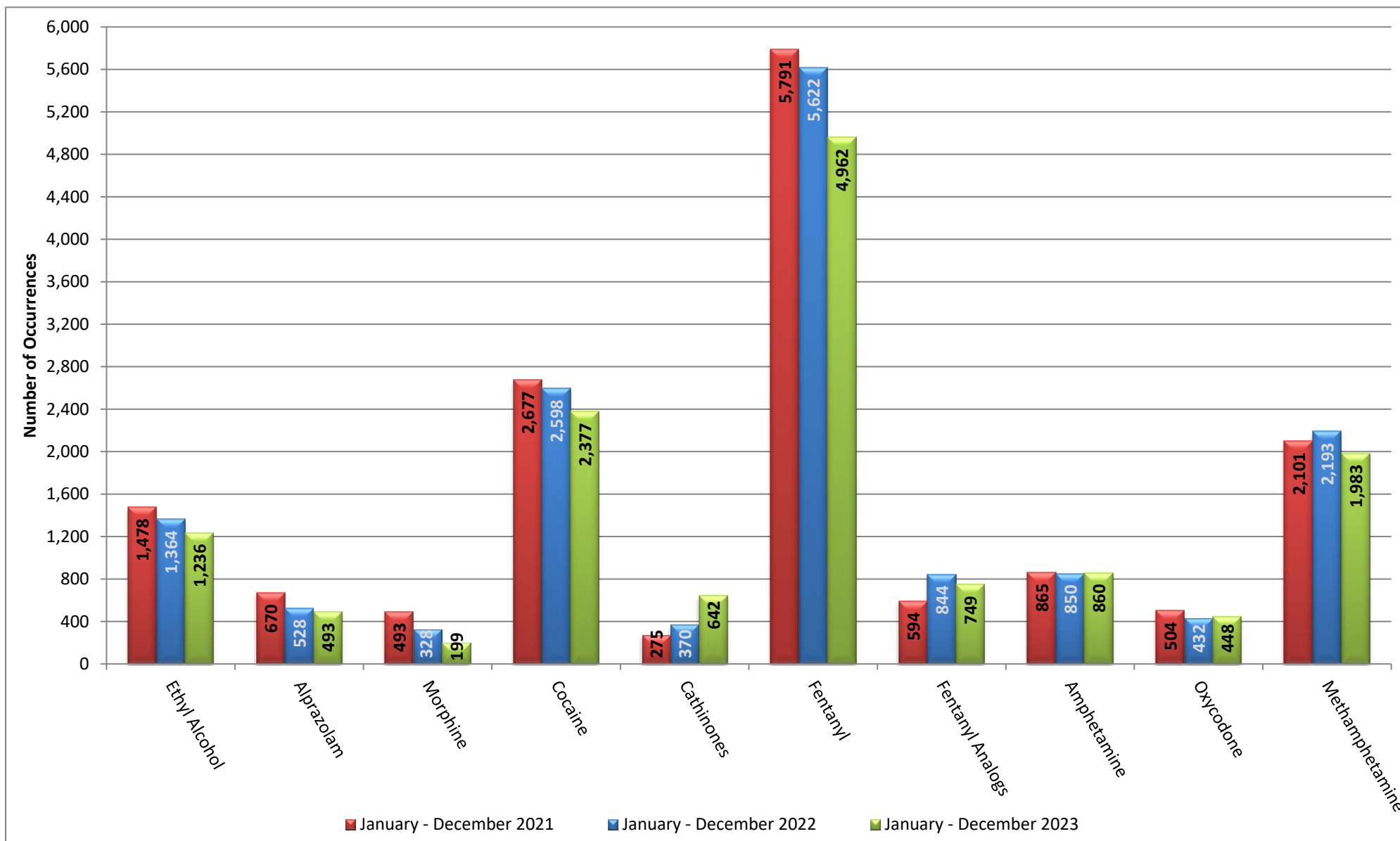
Comparison of Drug Occurrences in Decedents (continued)

DRUG PRESENT IN BODY		2022	2023	PERCENTAGE CHANGE
Opioids	Buprenorphine	227	188	-17.2%
	Codeine	176	121	-31.3%
	Fentanyl	6,230	5,530	-11.2%
	Fentanyl Analogs	1,005	881	-12.3%
	Heroin	227	93	-59.0%
	Hydrocodone	447	370	-17.2%
	Hydromorphone	369	314	-14.9%
	Methadone	297	270	-9.1%
	Morphine	861	635	-26.2%
	Oxycodone	1,014	1,015	0.1%
	Oxymorphone	474	475	0.2%
	Tramadol	350	338	-3.4%
	U-47700	0	1	*
	Other	Cannabinoids	3,564	3,153
Carisoprodol/Meprobamate		32	36	12.5%
Cathinones		549	917	67.0%
Cocaine		3,930	3,565	-9.3%
GHB		8	2	-75.0%
Gabapentin		967	897	-7.2%
Ketamine		214	282	31.8%
Mitragynine		308	274	-11.0%
Sympathomimetic Amines		24	28	16.7%
Synthetic Cannabinoids		12	18	50.0%
Xylazine		471	550	16.8%
Zolpidem		115	149	29.6%

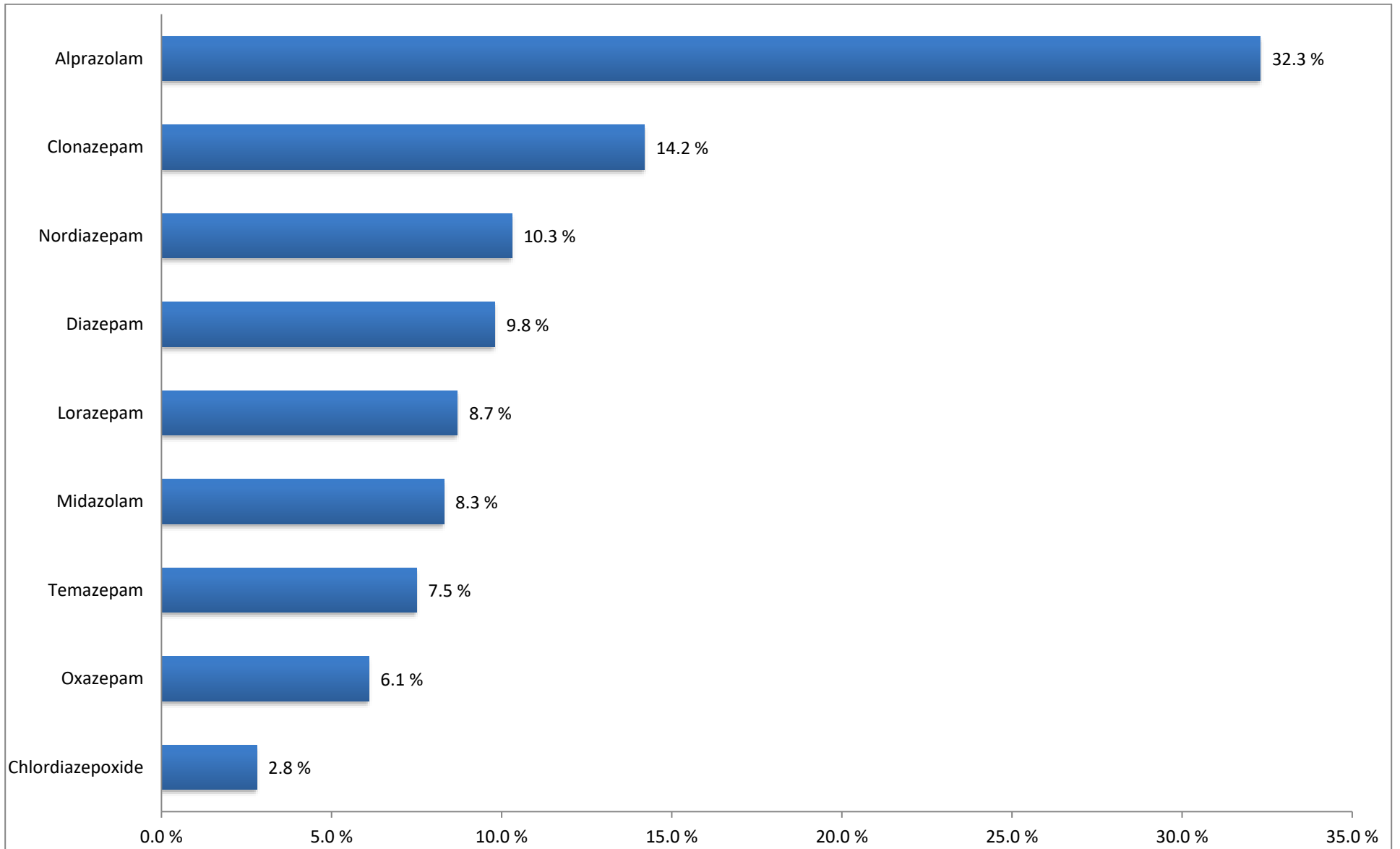
**Due to the small number of occurrences, percent changes were not calculated.*

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 2021 to 2023



Frequency of Occurrence of Benzodiazepines January – December 2023



Note: 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 2023

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
24	13	11
2	2	0
11	5	6
43	14	29
38	8	30
157	95	62
39	18	21
8	2	6
37	11	26
38	8	30
148	50	98
61	29	32
91	54	37
18	8	10
118	24	94
6	4	2
93	57	36
28	15	13
15	7	8
19	11	8
60	40	20
19	9	10
13	6	7
10	1	9
10	2	8
1,106	493	613

Deaths with Alprazolam Only		
Total	Cause	Present
3	0	3
0	0	0
0	0	0
6	0	6
2	0	2
9	2	7
2	0	2
1	0	1
3	0	3
8	1	7
17	0	17
4	1	3
11	1	10
3	0	3
8	0	8
1	0	1
6	1	5
0	0	0
2	1	1
3	1	2
7	4	3
2	0	2
1	0	1
1	0	1
101	12	89

Deaths with Alprazolam in Combination with Other Drugs		
Total	Cause	Present
21	13	8
2	2	0
11	5	6
37	14	23
36	8	28
148	93	55
37	18	19
7	2	5
34	11	23
30	7	23
131	50	81
57	28	29
80	53	27
15	8	7
110	24	86
5	4	1
87	56	31
28	15	13
13	6	7
16	10	6
53	36	17
17	9	8
12	6	6
9	1	8
9	2	7
1,005	481	524

Alprazolam Deaths by Age

January – December 2023

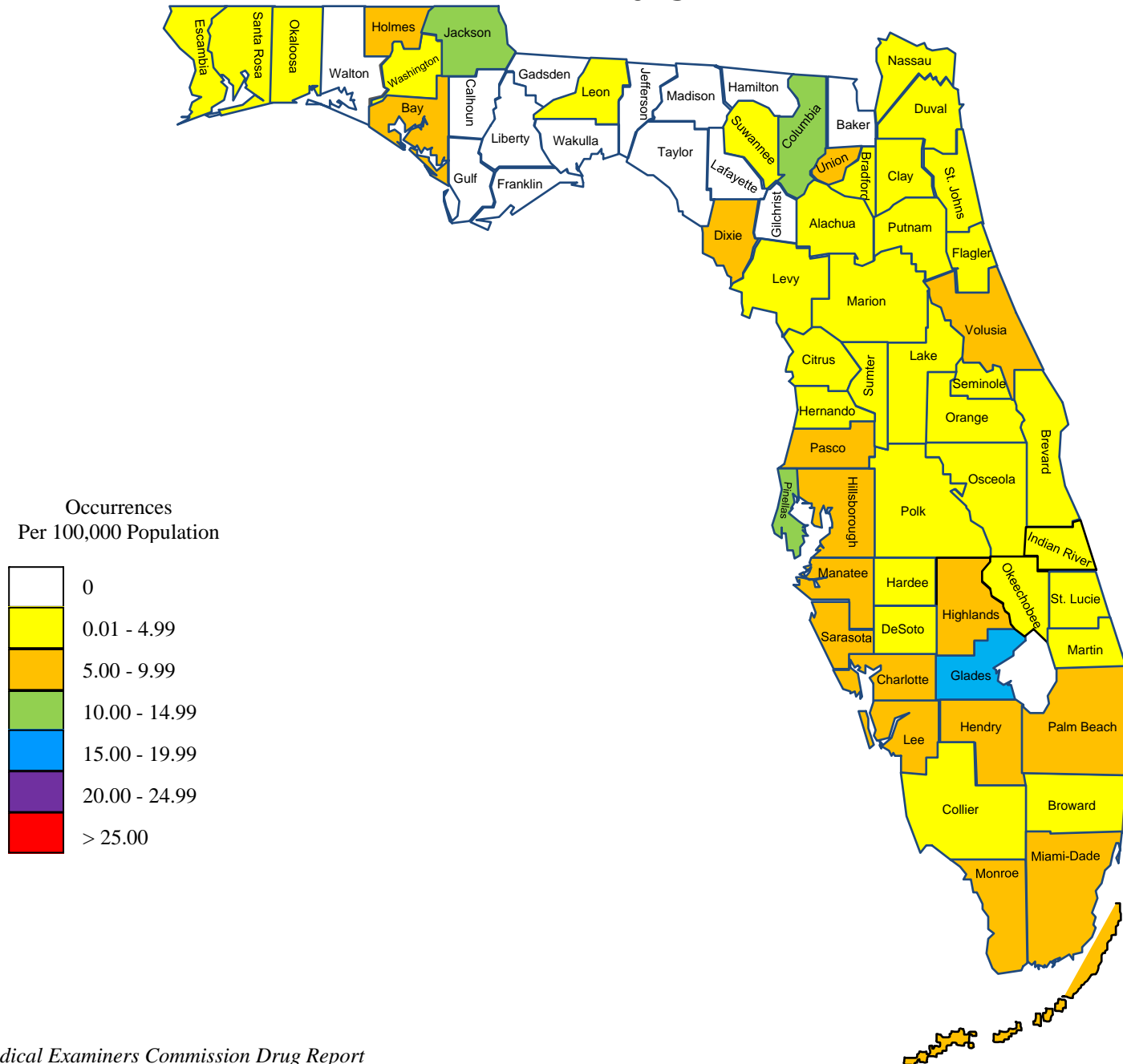
Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	24
2	Tallahassee	2
3	Live Oak	11
4	Jacksonville	43
5	Leesburg	38
6	St. Petersburg	157
7	Daytona Beach	39
8	Gainesville	8
9	Orlando	37
10	Lakeland	38
11	Miami	148
12	Sarasota	61
13	Tampa	91
14	Panama City	18
15	West Palm Beach	118
16	Florida Keys	6
17	Ft. Lauderdale	93
18	Melbourne	28
19	Ft. Pierce	15
20	Naples	19
21	Ft. Myers	60
22	Port Charlotte	19
23	St. Augustine	13
24	Sanford	10
25	Kissimmee	10
Statewide Totals		1,106

Alprazolam Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
13	0	1	3	6	3
2	0	0	0	1	1
5	0	0	1	3	1
14	0	0	2	7	5
8	0	0	2	4	2
95	0	3	9	42	41
18	0	4	2	5	7
2	0	0	0	0	2
11	0	1	3	5	2
8	0	2	2	1	3
50	0	5	17	13	15
29	0	2	4	13	10
54	0	5	13	17	19
8	0	1	3	3	1
24	0	1	2	14	7
4	0	1	0	1	2
57	0	4	10	23	20
15	0	0	1	7	7
7	0	0	2	3	2
11	0	0	4	3	4
40	0	0	8	13	19
9	0	0	1	5	3
6	0	0	2	0	4
1	0	0	1	0	0
2	0	1	1	0	0
493	0	31	93	189	180

Alprazolam Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
11	0	2	0	5	4
0	0	0	0	0	0
6	0	0	1	3	2
29	0	1	3	12	13
30	0	1	3	11	15
62	0	3	7	26	26
21	0	0	4	5	12
6	0	0	2	2	2
26	0	2	7	11	6
30	0	3	3	10	14
98	0	7	21	31	39
32	1	0	3	15	13
37	0	4	5	8	20
10	0	0	1	3	6
94	0	6	20	35	33
2	0	0	2	0	0
36	0	3	5	11	17
13	0	0	2	3	8
8	0	0	1	3	4
8	0	0	4	0	4
20	0	0	0	3	17
10	0	0	3	0	7
7	0	0	0	4	3
9	0	2	3	2	2
8	0	0	4	3	1
613	1	34	104	206	268

Alprazolam Deaths by County

2023



Clonazepam Deaths

January – December 2023

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 Clonazepam		
Total	Cause	Present
9	3	6
11	1	10
6	2	4
39	5	34
13	2	11
79	23	56
16	1	15
0	0	0
32	4	28
1	0	1
84	14	70
2	1	1
4	2	2
3	0	3
72	8	64
1	0	1
28	16	12
18	13	5
11	1	10
1	1	0
29	14	15
9	2	7
6	0	6
3	0	3
10	3	7
487	116	371

Deaths with Clonazepam 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
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

Deaths with Clonazepam in Combination with Other Drugs		
Total	Cause	Present
9	3	6
11	1	10
6	2	4
39	5	34
13	2	11
79	23	56
16	1	15
0	0	0
32	4	28
1	0	1
84	14	70
2	1	1
4	2	2
3	0	3
72	8	64
1	0	1
28	16	12
18	13	5
11	1	10
1	1	0
29	14	15
9	2	7
6	0	6
3	0	3
10	3	7
487	116	371

Clonazepam Deaths by Age

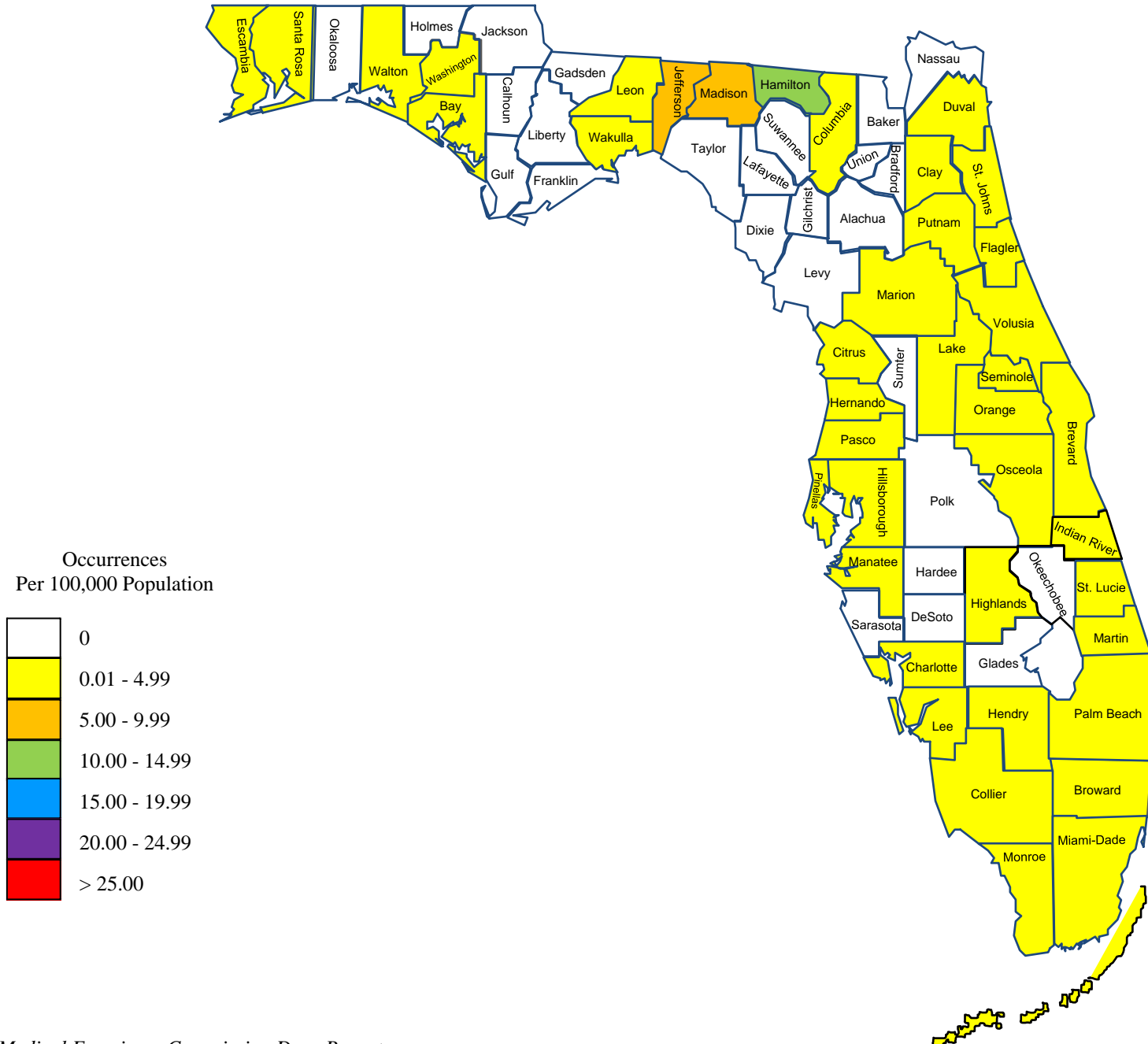
January – December 2023

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	9
2	Tallahassee	11
3	Live Oak	6
4	Jacksonville	39
5	Leesburg	13
6	St. Petersburg	79
7	Daytona Beach	16
8	Gainesville	0
9	Orlando	32
10	Lakeland	1
11	Miami	84
12	Sarasota	2
13	Tampa	4
14	Panama City	3
15	West Palm Beach	72
16	Florida Keys	1
17	Ft. Lauderdale	28
18	Melbourne	18
19	Ft. Pierce	11
20	Naples	1
21	Ft. Myers	29
22	Port Charlotte	9
23	St. Augustine	6
24	Sanford	3
25	Kissimmee	10
Statewide Totals		487

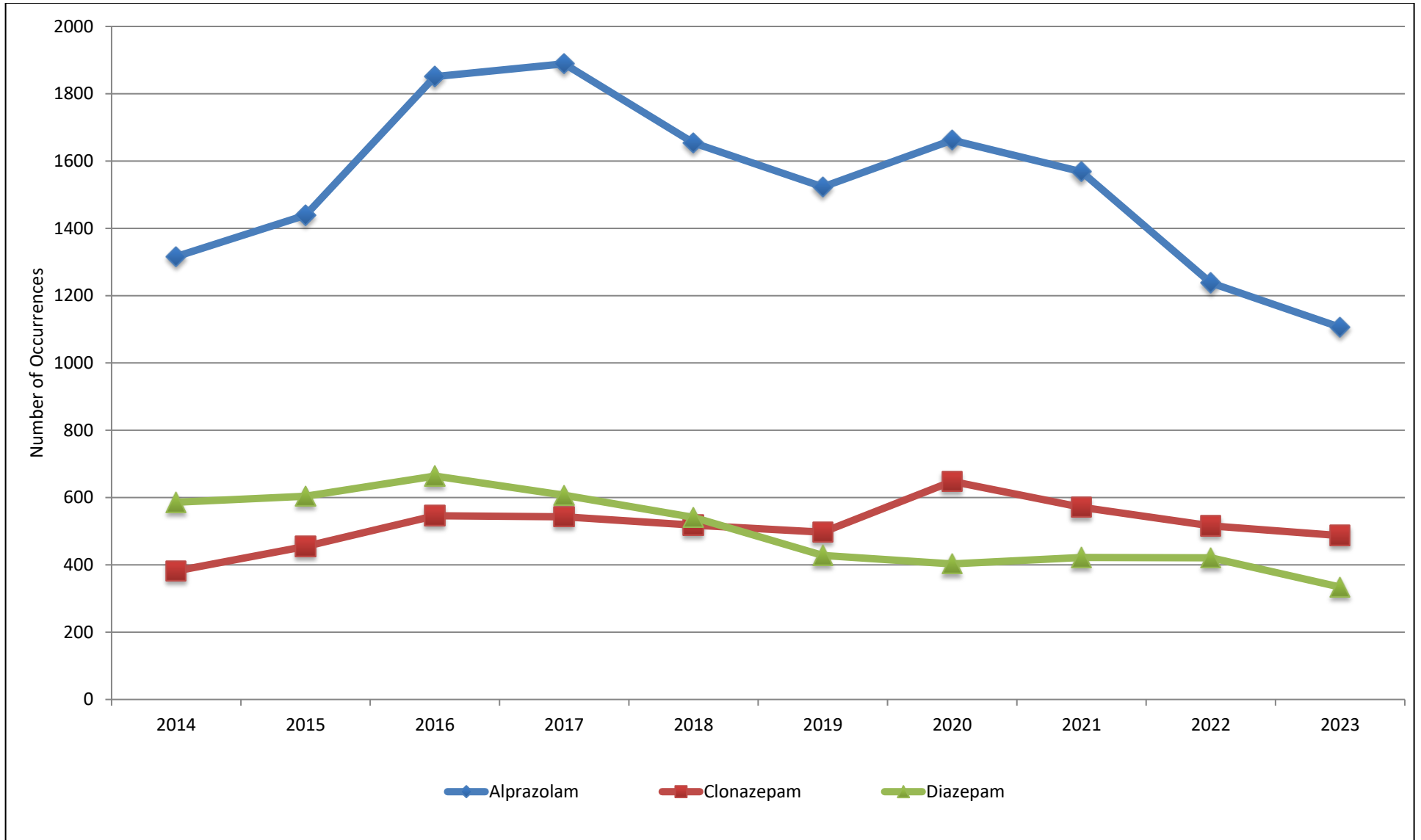
Clonazepam Caused Death					
Age of Decedent					
Total	< 18	18-25	26-34	35-50	>50
3	0	0	0	2	1
1	0	0	0	0	1
2	0	0	1	1	0
5	0	0	1	1	3
2	0	0	1	1	0
23	0	0	2	15	6
1	0	0	0	0	1
0	0	0	0	0	0
4	0	1	1	0	2
0	0	0	0	0	0
14	0	1	2	5	6
1	0	0	0	0	1
2	0	0	0	1	1
0	0	0	0	0	0
8	0	0	3	3	2
0	0	0	0	0	0
16	0	0	4	3	9
13	0	0	2	5	6
1	0	0	0	1	0
1	0	0	0	1	0
14	0	1	6	3	4
2	0	0	0	1	1
0	0	0	0	0	0
0	0	0	0	0	0
3	0	0	1	1	1
116	0	3	24	44	45

Clonazepam Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
6	0	0	1	2	3
10	0	2	2	4	2
4	0	0	1	3	0
34	0	0	8	11	15
11	0	0	4	2	5
56	0	0	8	21	27
15	0	0	2	8	5
0	0	0	0	0	0
28	0	1	7	11	9
1	0	1	0	0	0
70	0	5	10	14	41
1	0	0	0	0	1
2	0	0	0	1	1
3	0	0	1	0	2
64	0	2	14	26	22
1	0	0	0	0	1
12	0	1	1	5	5
5	0	0	1	2	2
10	0	0	0	4	6
0	0	0	0	0	0
15	0	0	0	3	12
7	0	0	3	1	3
6	0	1	3	1	1
3	0	0	0	1	2
7	0	0	2	2	3
371	0	13	68	122	168

Clonazepam Deaths by County 2023



Historical Overview of Alprazolam, Clonazepam and Diazepam Occurrences (Present and Cause) 2014 to 2023



Oxycodone Deaths

January – December 2023

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

Total Deaths with Oxycodone		
Total	Cause	Present
30	15	15
14	9	5
9	2	7
69	30	39
30	11	19
100	60	40
28	16	12
11	1	10
58	19	39
34	9	25
96	23	73
41	19	22
85	46	39
14	6	8
116	50	66
4	3	1
96	46	50
48	28	20
22	9	13
16	8	8
50	22	28
16	8	8
13	5	8
5	1	4
10	2	8
1,015	448	567

Deaths with Oxycodone Only		
Total	Cause	Present
2	0	2
0	0	0
0	0	0
1	0	1
3	0	3
3	2	1
0	0	0
5	0	5
11	4	7
6	1	5
5	0	5
6	2	4
3	0	3
1	0	1
5	1	4
0	0	0
8	0	8
4	1	3
6	3	3
2	0	2
3	1	2
0	0	0
2	1	1
0	0	0
1	0	1
77	16	61

Deaths with Oxycodone in Combination with Other Drugs		
Total	Cause	Present
28	15	13
14	9	5
9	2	7
68	30	38
27	11	16
97	58	39
28	16	12
6	1	5
47	15	32
28	8	20
91	23	68
35	17	18
82	46	36
13	6	7
111	49	62
4	3	1
88	46	42
44	27	17
16	6	10
14	8	6
47	21	26
16	8	8
11	4	7
5	1	4
9	2	7
938	432	506

Oxycodone Deaths by Age

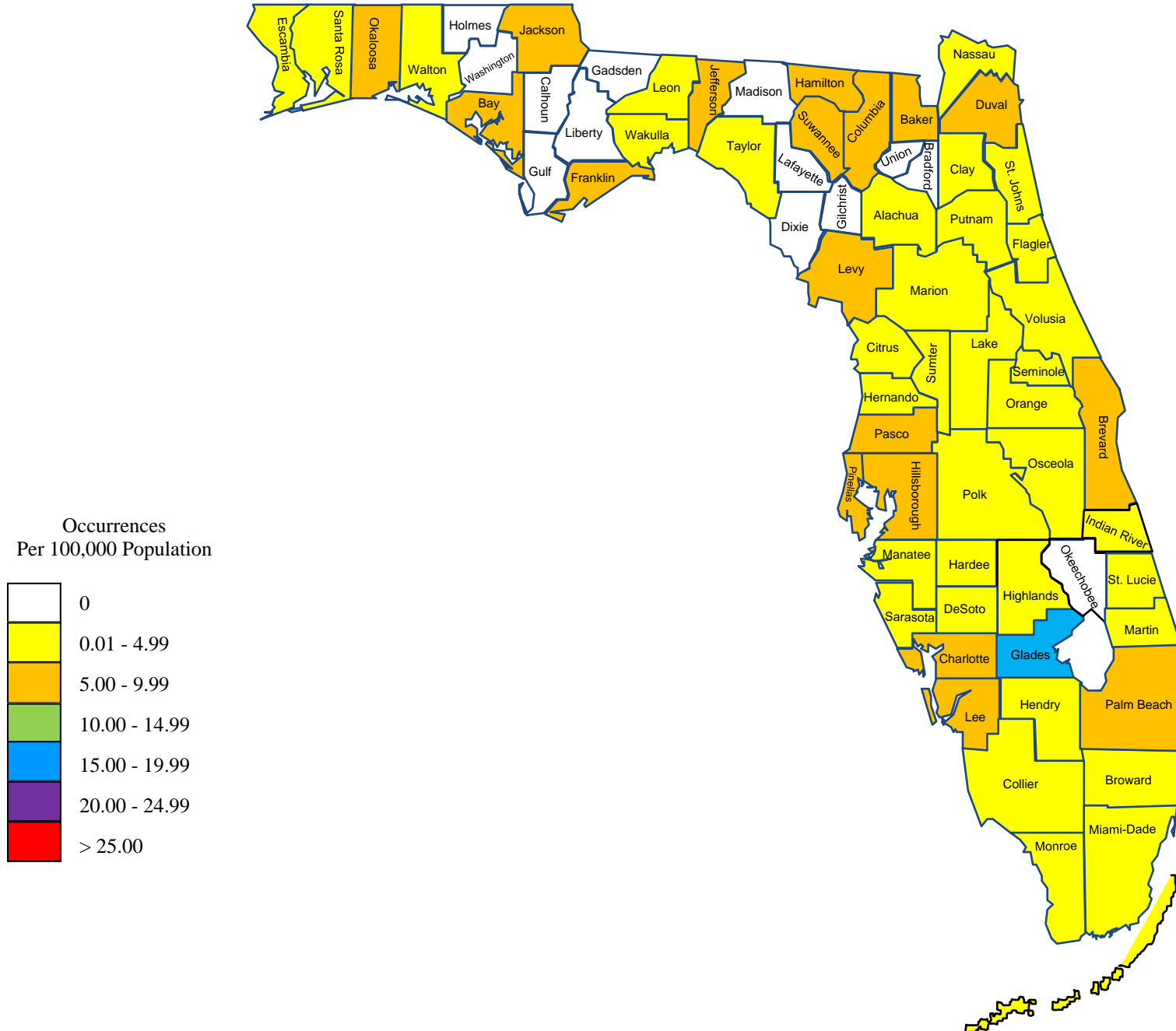
January – December 2023

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	30
2	Tallahassee	14
3	Live Oak	9
4	Jacksonville	69
5	Leesburg	30
6	St. Petersburg	100
7	Daytona Beach	28
8	Gainesville	11
9	Orlando	58
10	Lakeland	34
11	Miami	96
12	Sarasota	41
13	Tampa	85
14	Panama City	14
15	West Palm Beach	116
16	Florida Keys	4
17	Ft. Lauderdale	96
18	Melbourne	48
19	Ft. Pierce	22
20	Naples	16
21	Ft. Myers	50
22	Port Charlotte	16
23	St. Augustine	13
24	Sanford	5
25	Kissimmee	10
Statewide Totals		1,015

Oxycodone Caused Death					
Age of Decedent					
Total	< 18	18-25	26-34	35-50	>50
15	0	0	2	6	7
9	0	2	0	4	3
2	0	0	1	0	1
30	0	0	3	13	14
11	0	0	1	2	8
60	1	0	5	24	30
16	0	0	0	4	12
1	0	0	0	0	1
19	1	2	7	5	4
9	0	2	1	3	3
23	0	4	5	4	10
19	0	0	3	5	11
46	0	3	4	15	24
6	0	0	2	1	3
50	0	1	13	19	17
3	0	0	0	0	3
46	0	3	9	11	23
28	0	0	1	8	19
9	0	0	0	0	9
8	0	0	0	1	7
22	0	0	0	4	18
8	0	0	0	6	2
5	0	0	0	2	3
1	0	0	0	1	0
2	0	0	1	0	1
448	2	17	58	138	233

Oxycodone Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
15	0	2	1	5	7
5	0	0	2	1	2
7	0	0	0	2	5
39	0	3	4	10	22
19	0	0	0	5	14
40	0	5	2	10	23
12	0	2	1	2	7
10	0	0	0	3	7
39	0	1	2	8	28
25	1	1	2	6	15
73	1	12	19	12	29
22	0	1	3	6	12
39	0	2	4	1	32
8	0	0	0	3	5
66	1	7	15	17	26
1	0	0	0	1	0
50	0	5	8	10	27
20	1	1	3	6	9
13	0	0	0	3	10
8	0	0	0	2	6
28	0	0	2	3	23
8	0	0	0	1	7
8	0	0	0	3	5
4	0	0	0	2	2
8	0	0	0	4	4
567	4	42	68	126	327

Oxycodone Deaths by County 2023



Hydrocodone Deaths

January – December 2023

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
41	16	25
7	2	5
6	4	2
37	13	24
23	7	16
33	10	23
19	12	7
2	0	2
23	9	14
18	3	15
11	1	10
16	4	12
14	4	10
8	3	5
21	7	14
2	0	2
12	2	10
18	7	11
6	1	5
4	0	4
22	13	9
9	2	7
8	2	6
6	3	3
4	0	4
370	125	245

Deaths with Hydrocodone Only		
Total	Cause	Present
10	0	10
1	0	1
0	0	0
9	1	8
2	0	2
2	0	2
2	1	1
1	0	1
7	2	5
3	1	2
2	0	2
0	0	0
2	0	2
0	0	0
2	1	1
0	0	0
2	0	2
1	0	1
2	0	2
1	0	1
0	0	0
1	0	1
1	0	1
1	0	1
53	6	47

Deaths with Hydrocodone in Combination with Other Drugs		
Total	Cause	Present
31	16	15
6	2	4
6	4	2
28	12	16
21	7	14
31	10	21
17	11	6
1	0	1
16	7	9
15	2	13
9	1	8
16	4	12
12	4	8
8	3	5
19	6	13
2	0	2
10	2	8
17	7	10
4	1	3
3	0	3
22	13	9
8	2	6
7	2	5
5	3	2
3	0	3
317	119	198

Hydrocodone Deaths by Age

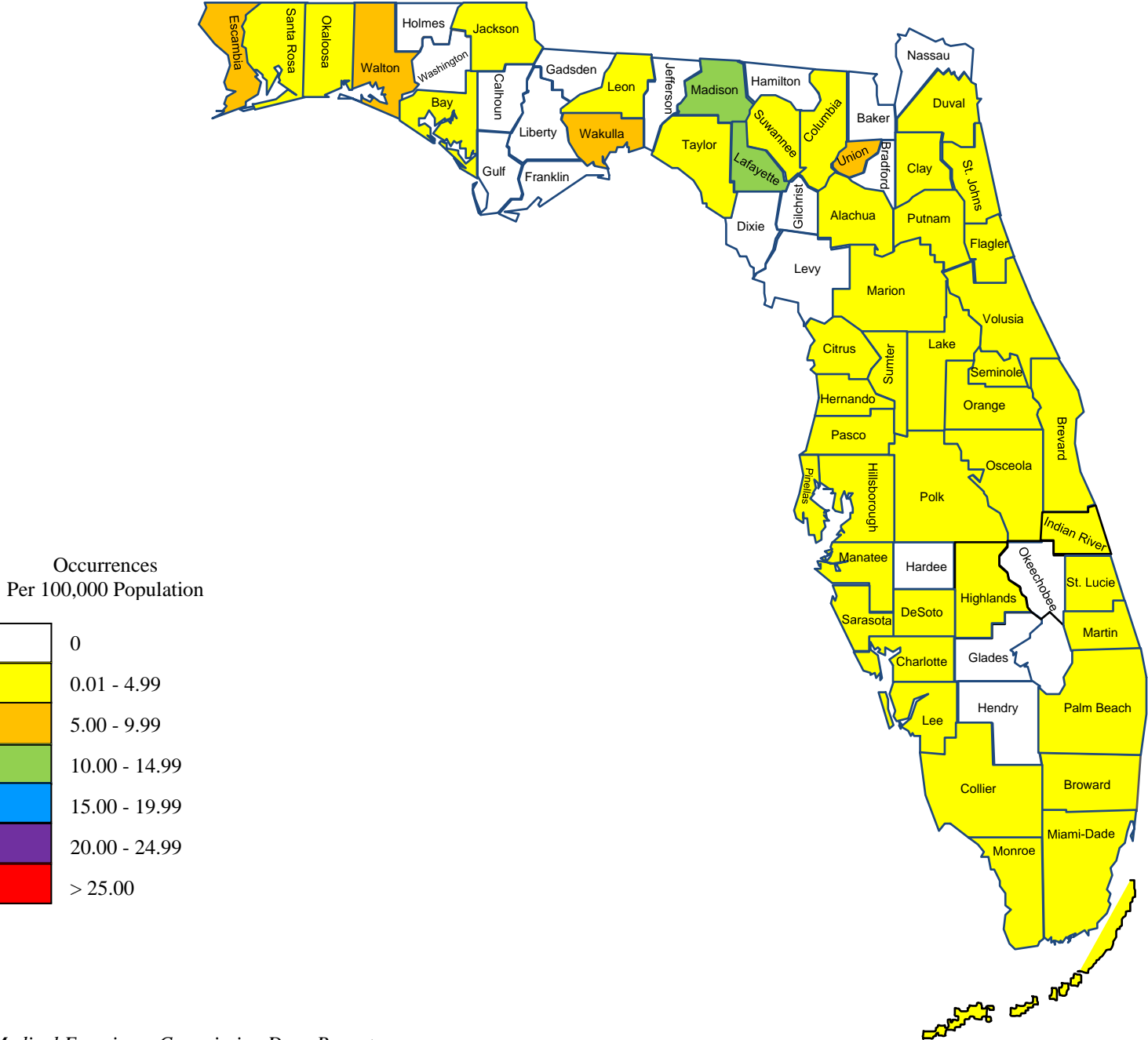
January – December 2023

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	41
2	Tallahassee	7
3	Live Oak	6
4	Jacksonville	37
5	Leesburg	23
6	St. Petersburg	33
7	Daytona Beach	19
8	Gainesville	2
9	Orlando	23
10	Lakeland	18
11	Miami	11
12	Sarasota	16
13	Tampa	14
14	Panama City	8
15	West Palm Beach	21
16	Florida Keys	2
17	Ft. Lauderdale	12
18	Melbourne	18
19	Ft. Pierce	6
20	Naples	4
21	Ft. Myers	22
22	Port Charlotte	9
23	St. Augustine	8
24	Sanford	6
25	Kissimmee	4
Statewide Totals		370

Hydrocodone Caused Death					
Age of Decedent					
Total	< 18	18-25	26-34	35-50	>50
16	0	1	1	6	8
2	0	0	0	2	0
4	0	0	0	1	3
13	0	0	1	5	7
7	0	0	0	1	6
10	0	0	0	3	7
12	0	0	0	4	8
0	0	0	0	0	0
9	0	0	0	4	5
3	0	0	0	1	2
1	0	0	0	0	1
4	0	0	1	0	3
4	0	0	0	0	4
3	0	0	0	0	3
7	0	0	2	1	4
0	0	0	0	0	0
2	0	0	0	1	1
7	0	0	0	1	6
1	0	0	0	0	1
0	0	0	0	0	0
13	0	1	0	6	6
2	0	0	0	1	1
2	0	0	0	0	2
3	0	0	0	0	3
0	0	0	0	0	0
125	0	2	5	37	81

Hydrocodone Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
25	0	1	1	3	20
5	0	0	1	1	3
2	0	0	0	0	2
24	0	0	2	3	19
16	1	0	0	2	13
23	0	0	4	2	17
7	0	0	0	1	6
2	0	0	0	0	2
14	0	0	1	4	9
15	1	1	0	1	12
10	0	0	0	3	7
12	0	0	0	2	10
10	0	0	0	1	9
5	0	0	0	3	2
14	0	0	1	3	10
2	0	0	0	1	1
10	0	1	0	0	9
11	0	0	0	0	11
5	0	0	0	0	5
4	0	0	0	1	3
9	0	0	0	1	8
7	0	0	1	3	3
6	0	0	1	2	3
3	0	0	0	0	3
4	0	0	0	1	3
245	2	3	12	38	190

Hydrocodone Deaths by County 2023



Methadone Deaths

January – December 2023

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
9	5	4
3	3	0
1	1	0
35	22	13
13	7	6
47	29	18
11	10	1
2	1	1
24	9	15
7	4	3
7	4	3
10	6	4
27	18	9
1	1	0
14	8	6
1	0	1
11	5	6
7	5	2
8	2	6
3	2	1
7	0	7
3	2	1
4	3	1
3	2	1
12	8	4
270	157	113

Deaths with Methadone Only		
Total	Cause	Present
4	2	2
0	0	0
0	0	0
7	4	3
0	0	0
6	2	4
0	0	0
2	1	1
5	3	2
3	1	2
1	0	1
2	1	1
7	5	2
0	0	0
1	1	0
0	0	0
2	1	1
0	0	0
5	0	5
0	0	0
2	0	2
0	0	0
2	1	1
0	0	0
1	0	1
50	22	28

Deaths with Methadone in Combination with Other Drugs		
Total	Cause	Present
5	3	2
3	3	0
1	1	0
28	18	10
13	7	6
41	27	14
11	10	1
0	0	0
19	6	13
4	3	1
6	4	2
8	5	3
20	13	7
1	1	0
13	7	6
1	0	1
9	4	5
7	5	2
3	2	1
3	2	1
5	0	5
3	2	1
2	2	0
3	2	1
11	8	3
220	135	85

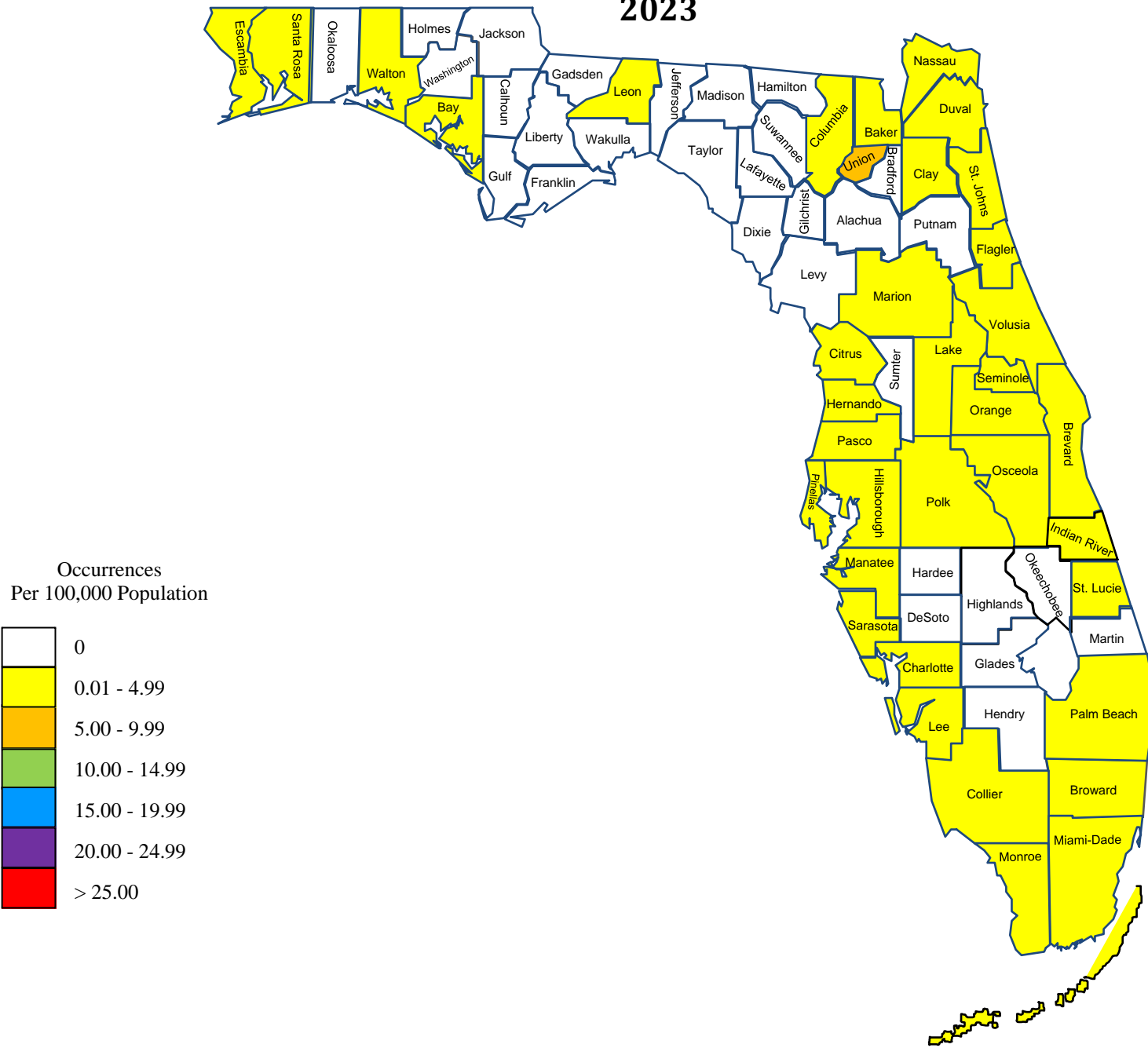
Methadone Deaths by Age January – December 2023

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	9
2	Tallahassee	3
3	Live Oak	1
4	Jacksonville	35
5	Leesburg	13
6	St. Petersburg	47
7	Daytona Beach	11
8	Gainesville	2
9	Orlando	24
10	Lakeland	7
11	Miami	7
12	Sarasota	10
13	Tampa	27
14	Panama City	1
15	West Palm Beach	14
16	Florida Keys	1
17	Ft. Lauderdale	11
18	Melbourne	7
19	Ft. Pierce	8
20	Naples	3
21	Ft. Myers	7
22	Port Charlotte	3
23	St. Augustine	4
24	Sanford	3
25	Kissimmee	12
Statewide Totals		270

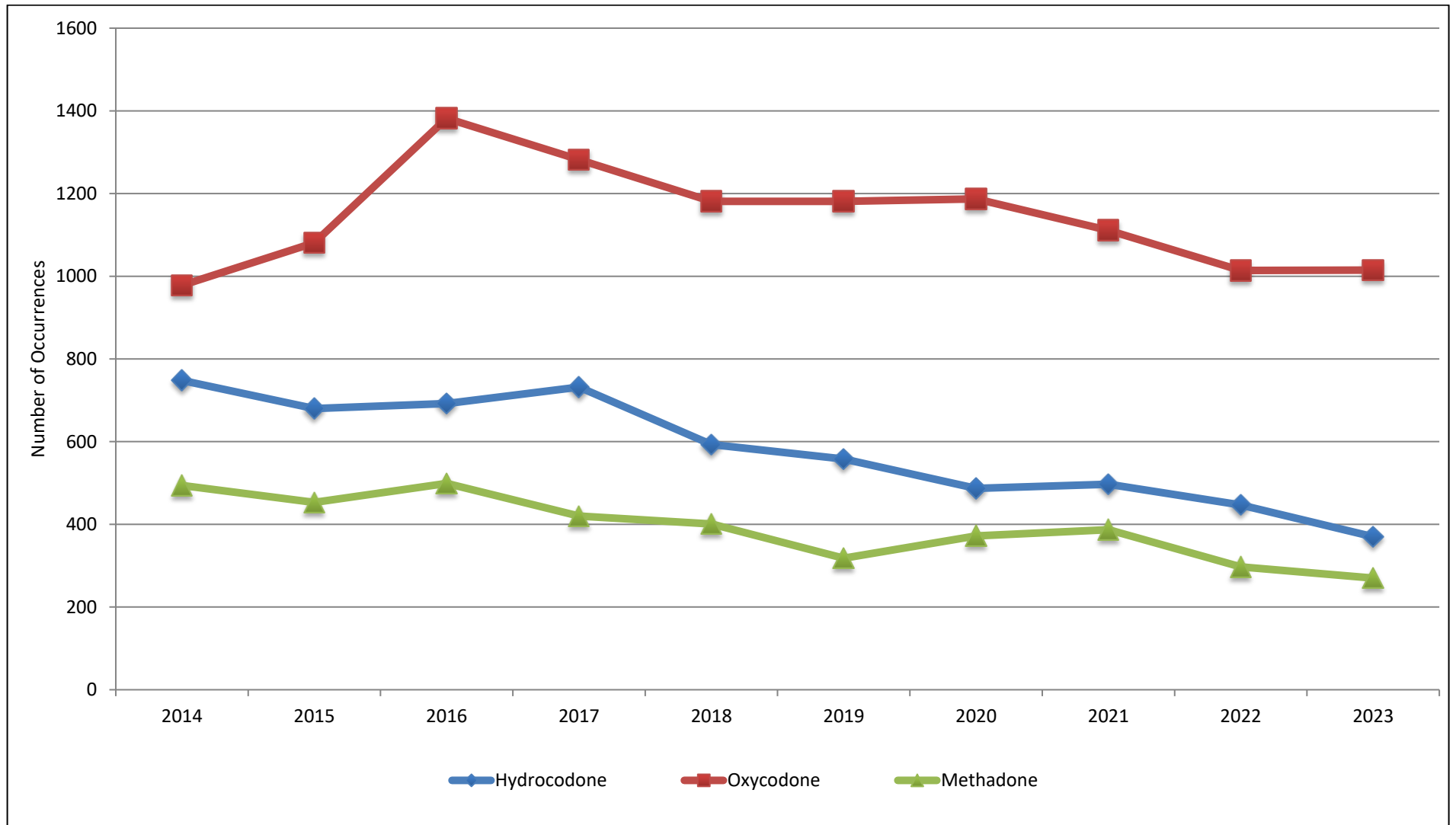
Methadone Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
5	0	0	0	2	3
3	0	0	0	1	2
1	0	0	0	1	0
22	0	1	6	11	4
7	0	0	0	6	1
29	0	0	3	12	14
10	0	1	1	5	3
1	0	0	0	1	0
9	0	0	4	4	1
4	0	0	1	2	1
4	0	1	0	2	1
6	0	0	0	3	3
18	0	1	2	7	8
1	0	0	0	1	0
8	0	0	0	3	5
0	0	0	0	0	0
5	0	0	0	2	3
5	0	0	2	2	1
2	0	0	0	1	1
2	0	0	0	1	1
0	0	0	0	0	0
2	0	0	1	0	1
3	1	0	0	1	1
2	0	0	0	2	0
8	0	0	1	5	2
157	1	4	21	75	56

Methadone Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
4	0	0	0	0	4
0	0	0	0	0	0
0	0	0	0	0	0
13	0	0	2	2	9
6	0	0	0	3	3
18	0	1	1	8	8
1	0	0	0	0	1
1	0	0	0	0	1
15	0	2	0	5	8
3	0	0	0	2	1
3	0	0	0	0	3
4	0	0	0	2	2
9	0	1	3	2	3
0	0	0	0	0	0
6	0	0	0	2	4
1	0	0	0	0	1
6	0	0	1	2	3
2	0	0	0	1	1
6	0	0	0	3	3
1	0	0	0	0	1
7	0	0	2	1	4
1	0	0	0	1	0
1	0	0	0	0	1
1	0	0	0	1	0
4	0	0	1	0	3
113	0	4	10	35	64

Methadone Deaths by County 2023

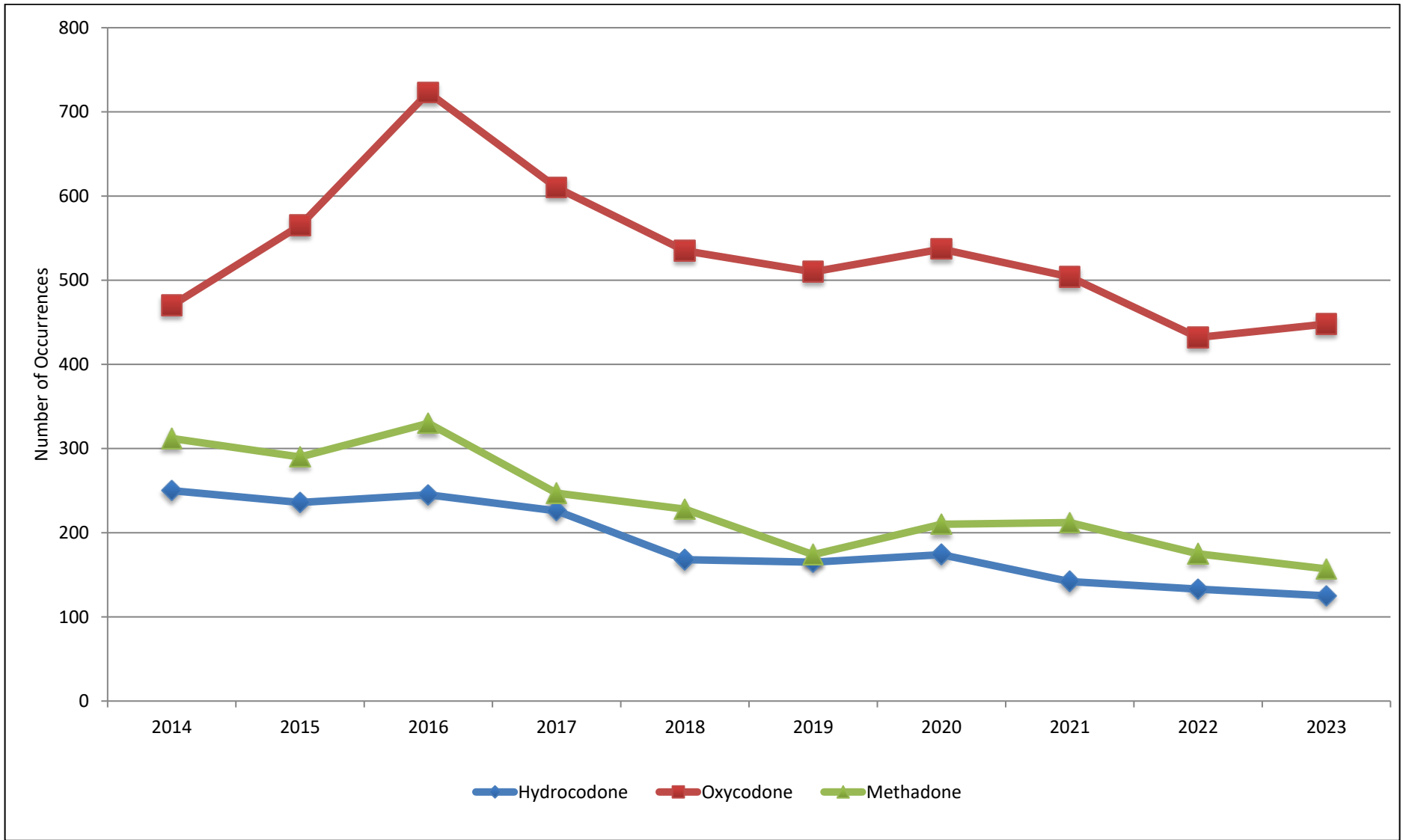


Historical Overview of Hydrocodone, Oxycodone, and Methadone Occurrences (Present and Cause) 2014 to 2023



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

2014 to 2023



Morphine Deaths

January – December 2023

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
29	6	23
6	1	5
5	1	4
32	8	24
18	10	8
62	35	27
7	2	5
0	0	0
119	11	108
31	7	24
42	16	26
19	6	13
45	19	26
7	1	6
87	24	63
2	1	1
34	12	22
11	5	6
9	5	4
12	3	9
26	12	14
7	2	5
11	5	6
3	3	0
11	4	7
635	199	436

Deaths with Morphine Only		
Total	Cause	Present
6	0	6
0	0	0
0	0	0
3	0	3
3	1	2
5	1	4
0	0	0
0	0	0
18	0	18
5	3	2
3	0	3
3	0	3
5	0	5
0	0	0
0	0	0
1	0	1
0	0	0
3	0	3
1	0	1
3	0	3
1	0	1
2	0	2
0	0	0
0	0	0
62	5	57

Deaths with Morphine in Combination with Other Drugs		
Total	Cause	Present
23	6	17
6	1	5
5	1	4
29	8	21
15	9	6
57	34	23
7	2	5
0	0	0
101	11	90
26	4	22
39	16	23
16	6	10
40	19	21
7	1	6
87	24	63
2	1	1
33	12	21
11	5	6
6	5	1
11	3	8
23	12	11
6	2	4
9	5	4
3	3	0
11	4	7
573	194	379

Morphine Deaths by Age

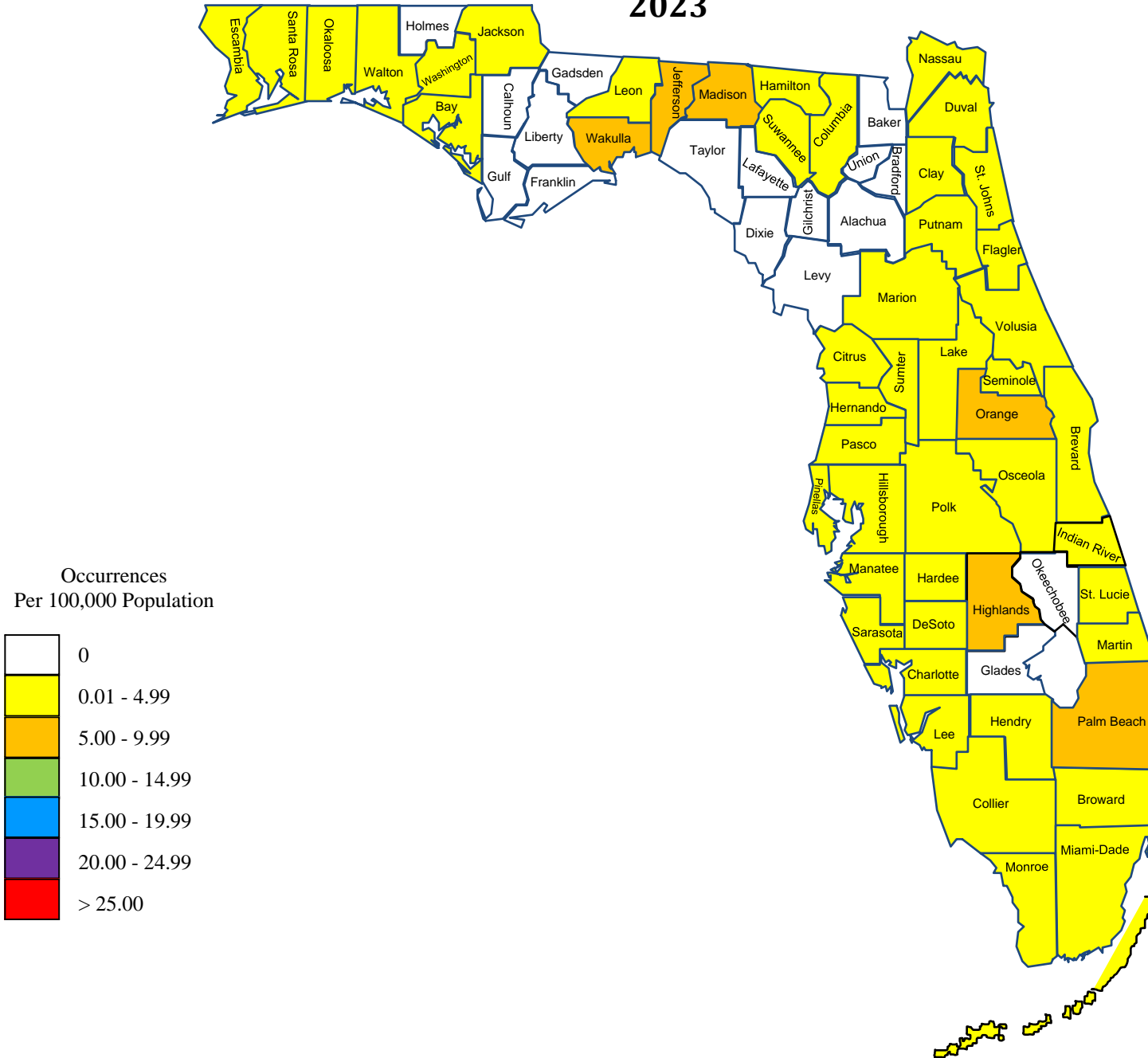
January – December 2023

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	29
2	Tallahassee	6
3	Live Oak	5
4	Jacksonville	32
5	Leesburg	18
6	St. Petersburg	62
7	Daytona Beach	7
8	Gainesville	0
9	Orlando	119
10	Lakeland	31
11	Miami	42
12	Sarasota	19
13	Tampa	45
14	Panama City	7
15	West Palm Beach	87
16	Florida Keys	2
17	Ft. Lauderdale	34
18	Melbourne	11
19	Ft. Pierce	9
20	Naples	12
21	Ft. Myers	26
22	Port Charlotte	7
23	St. Augustine	11
24	Sanford	3
25	Kissimmee	11
Statewide Totals		635

Morphine Caused Death						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
6	0	0	0	5	1	
1	0	0	0	0	1	
1	0	0	0	0	1	
8	0	0	0	3	5	
10	0	0	0	4	6	
35	0	0	3	15	17	
2	0	0	0	0	2	
0	0	0	0	0	0	
11	0	0	3	1	7	
7	0	0	0	4	3	
16	0	0	2	7	7	
6	0	0	0	1	5	
19	0	1	3	5	10	
1	0	0	0	0	1	
24	0	2	6	7	9	
1	0	0	0	0	1	
12	0	0	2	2	8	
5	0	0	0	1	4	
5	0	1	0	2	2	
3	0	0	1	1	1	
12	0	0	2	4	6	
2	0	0	0	1	1	
5	0	0	0	3	2	
3	0	0	0	3	0	
4	0	0	1	2	1	
199	0	4	23	71	101	

Morphine Present at Death						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
23	0	0	0	4	19	
5	0	1	0	3	1	
4	0	0	0	3	1	
24	0	0	5	4	15	
8	0	0	0	0	8	
27	0	0	1	5	21	
5	0	0	0	3	2	
0	0	0	0	0	0	
108	3	0	0	12	93	
24	1	1	2	2	18	
26	0	0	1	5	20	
13	0	0	2	3	8	
26	0	1	3	3	19	
6	0	0	1	2	3	
63	0	3	8	26	26	
1	0	0	0	0	1	
22	0	1	4	3	14	
6	0	0	1	2	3	
4	0	0	0	0	4	
9	0	0	2	3	4	
14	1	0	1	1	11	
5	0	0	0	0	5	
6	0	0	0	1	5	
0	0	0	0	0	0	
7	0	0	0	2	5	
436	5	7	31	87	306	

Morphine Deaths by County 2023



Fentanyl Deaths

January – December 2023

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
284	249	35
50	45	5
29	29	0
514	453	61
199	184	15
606	579	27
233	220	13
54	52	2
436	347	89
128	106	22
338	277	61
251	222	29
409	393	16
58	50	8
474	412	62
10	9	1
470	441	29
226	198	28
139	126	13
84	76	8
220	206	14
34	28	6
80	73	7
58	55	3
146	132	14
5,530	4,962	568

Deaths with Fentanyl Only		
Total	Cause	Present
30	24	6
4	3	1
1	1	0
59	54	5
21	19	2
33	31	2
22	21	1
20	20	0
45	35	10
10	8	2
12	7	5
15	13	2
61	61	0
8	5	3
24	7	17
0	0	0
32	27	5
12	10	2
19	17	2
9	7	2
30	26	4
6	6	0
11	10	1
5	4	1
12	11	1
501	427	74

Deaths with Fentanyl in Combination with Other Drugs		
Total	Cause	Present
254	225	29
46	42	4
28	28	0
455	399	56
178	165	13
573	548	25
211	199	12
34	32	2
391	312	79
118	98	20
326	270	56
236	209	27
348	332	16
50	45	5
450	405	45
10	9	1
438	414	24
214	188	26
120	109	11
75	69	6
190	180	10
28	22	6
69	63	6
53	51	2
134	121	13
5,029	4,535	494

Fentanyl Deaths by Age

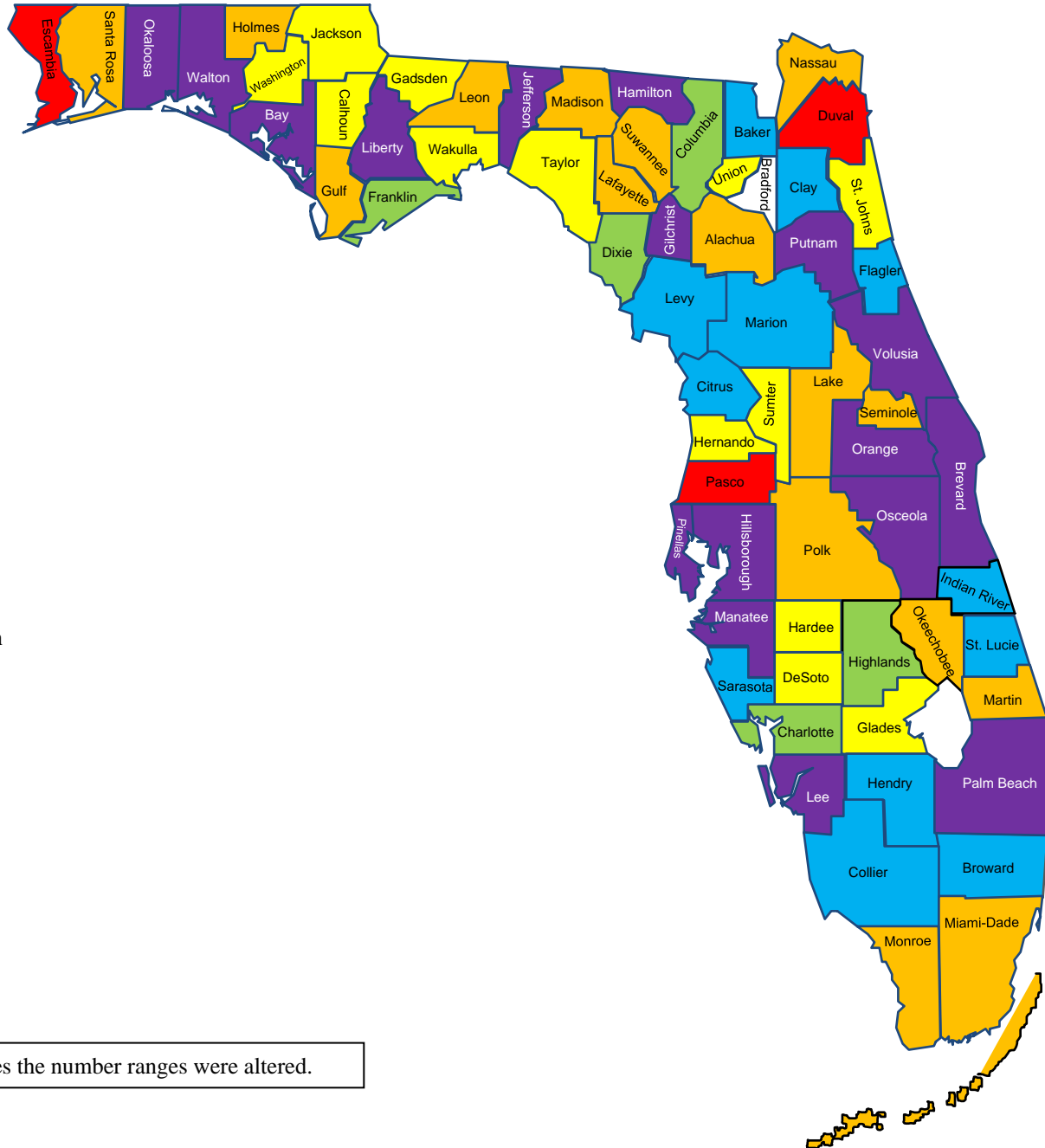
January – December 2023

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	284
2	Tallahassee	50
3	Live Oak	29
4	Jacksonville	514
5	Leesburg	199
6	St. Petersburg	606
7	Daytona Beach	233
8	Gainesville	54
9	Orlando	436
10	Lakeland	128
11	Miami	338
12	Sarasota	251
13	Tampa	409
14	Panama City	58
15	West Palm Beach	474
16	Florida Keys	10
17	Ft. Lauderdale	470
18	Melbourne	226
19	Ft. Pierce	139
20	Naples	84
21	Ft. Myers	220
22	Port Charlotte	34
23	St. Augustine	80
24	Sanford	58
25	Kissimmee	146
Statewide Totals		5,530

Fentanyl Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
249	1	12	48	108	80
45	1	3	9	23	9
29	0	1	7	12	9
453	5	18	102	203	125
184	2	8	33	80	61
579	2	20	103	274	180
220	1	11	37	101	70
52	1	3	14	18	16
347	4	18	90	142	93
106	0	8	21	47	30
277	1	32	63	99	82
222	1	8	40	111	62
393	1	25	78	168	121
50	0	6	6	28	10
412	0	26	105	174	107
9	0	1	1	3	4
441	0	32	108	172	129
198	0	5	41	100	52
126	1	12	33	47	33
76	0	5	16	30	25
206	5	9	43	84	65
28	0	2	7	11	8
73	0	6	12	28	27
55	0	3	10	24	18
132	0	8	28	63	33
4,962	26	282	1,055	2,150	1,449

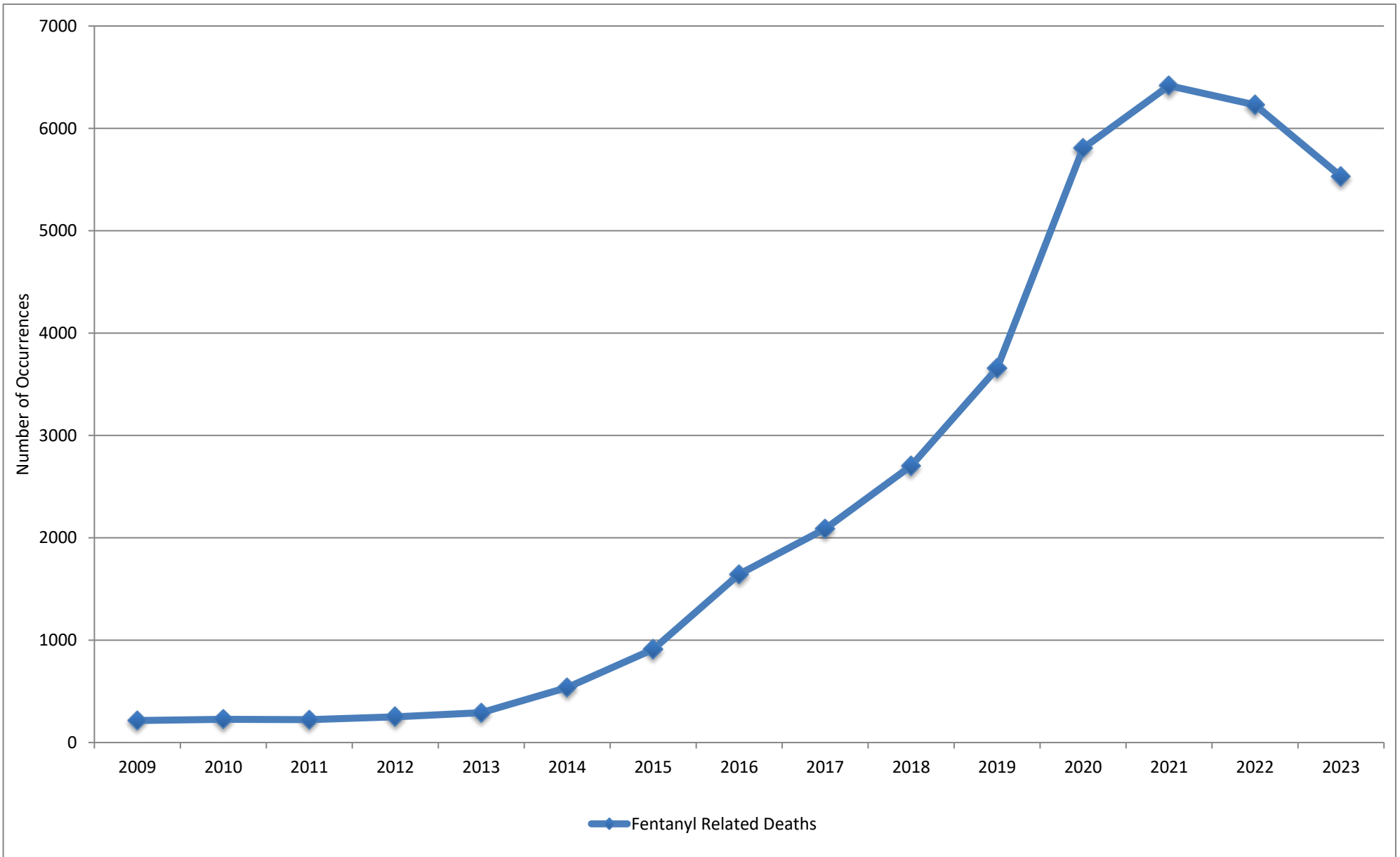
Fentanyl Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
35	1	3	4	10	17
5	0	0	1	2	2
0	0	0	0	0	0
61	2	2	11	24	22
15	0	1	2	5	7
27	0	0	4	15	8
13	0	0	0	6	7
2	0	0	0	0	2
89	2	3	9	16	59
22	0	1	4	6	11
61	2	5	10	13	31
29	0	2	7	15	5
16	0	2	4	6	4
8	1	2	1	3	1
62	3	6	10	20	23
1	0	0	0	0	1
29	2	2	7	4	14
28	1	1	8	10	8
13	0	3	1	7	2
8	0	0	1	4	3
14	4	0	1	3	6
6	0	0	1	1	4
7	0	0	2	2	3
3	0	0	0	2	1
14	0	0	1	5	8
568	18	33	89	179	249

Fentanyl Deaths by County 2023



Due to the amount of cases the number ranges were altered.

Historical Overview of Fentanyl Occurrences¹ (Present and Cause) 2009 to 2023



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 2022 versus 2023

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>	

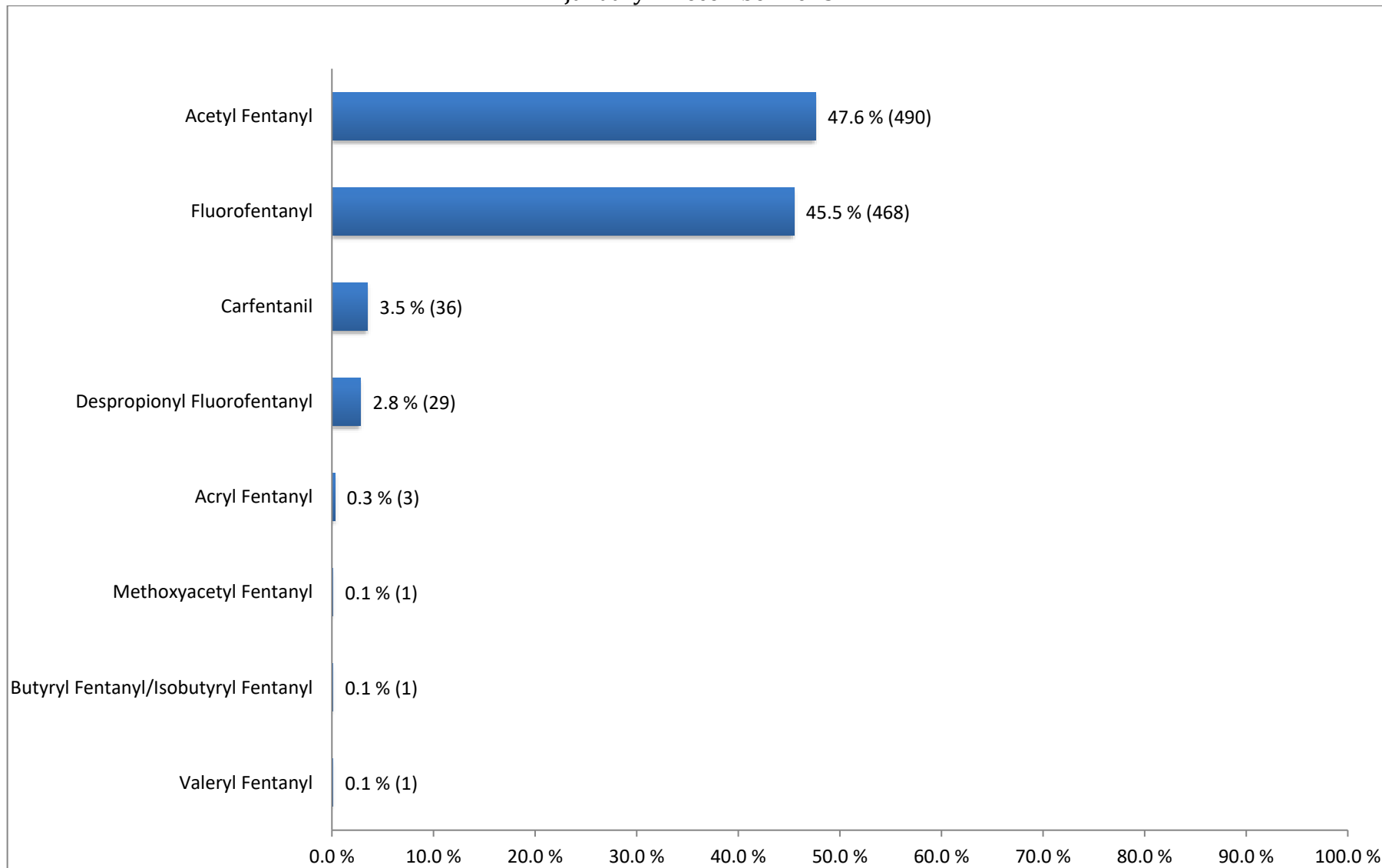
Total Prescription Drug Deaths in ME Deaths (Present and Cause)		
2022	2023	Percent Change
535	387	-27.7%
108	74	-31.5%
61	58	-4.9%
777	756	-2.7%
474	310	-34.6%
1,027	905	-11.9%
372	310	-16.7%
125	85	-32.0%
712	735	3.2%
270	259	-4.1%
555	633	14.1%
328	356	8.5%
720	606	-15.8%
124	96	-22.6%
718	682	-5.0%
39	27	-30.8%
730	659	-9.7%
187	324	73.3%
283	240	-15.2%
155	124	-20.0%
421	353	-16.2%
74	71	-4.1%
135	125	-7.4%
107	76	-29.0%
193	210	8.8%
9,230	8,461	-8.3%
<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)		
2022	2023	Percent Change
414	307	-25.8%
75	58	-22.7%
38	45	18.4%
621	581	-6.4%
383	234	-38.9%
838	724	-13.6%
320	265	-17.2%
99	67	-32.3%
557	583	4.7%
193	171	-11.4%
373	413	10.7%
259	266	2.7%
562	485	-13.7%
94	70	-25.5%
539	516	-4.3%
33	18	-45.5%
618	521	-15.7%
130	229	76.2%
181	174	-3.9%
114	97	-14.9%
331	255	-23.0%
48	46	-4.2%
104	97	-6.7%
90	65	-27.8%
149	178	19.5%
7,163	6,465	-9.7%
<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		
2022	2023	Percent Change
368	268	-27.2%
51	49	-3.9%
27	37	37.0%
532	487	-8.5%
327	198	-39.4%
746	645	-13.5%
286	231	-19.2%
79	54	-31.6%
355	354	-0.3%
143	125	-12.6%
278	292	5.0%
234	236	0.9%
514	430	-16.3%
69	56	-18.8%
429	438	2.1%
29	13	-55.2%
565	484	-14.3%
112	191	70.5%
150	137	-8.7%
99	82	-17.2%
292	221	-24.3%
40	33	-17.5%
83	80	-3.6%
83	58	-30.1%
116	140	20.7%
6,007	5,339	-11.1%
<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 2023



Note: Fluorobutyryl / Fluoroisobutyryl fentanyl includes the analytes para-fluoroisobutyryl fentanyl, para-fluorobutyryl fentanyl, fluoroisobutyryl fentanyl, and fluorobutyryl fentanyl. Isobutyryl / Butyryl includes the analytes para-isobutyryl and para-butyryl. 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 2023

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 Analogs		
Total	Cause	Present
24	22	2
20	20	0
2	2	0
70	65	5
13	10	3
62	46	16
19	18	1
5	2	3
6	6	0
32	8	24
81	75	6
55	18	37
2	1	1
16	16	0
207	203	4
1	0	1
196	186	10
7	3	4
2	2	0
19	6	13
28	26	2
1	1	0
6	6	0
4	4	0
3	3	0
881	749	132

Deaths with Fentanyl Analogs Only		
Total	Cause	Present
1	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
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	0	0
1	1	0

Deaths with Fentanyl Analogs in Combination with Other Drugs		
Total	Cause	Present
23	21	2
20	20	0
2	2	0
70	65	5
13	10	3
62	46	16
19	18	1
5	2	3
6	6	0
32	8	24
81	75	6
55	18	37
2	1	1
16	16	0
207	203	4
1	0	1
196	186	10
7	3	4
2	2	0
19	6	13
28	26	2
1	1	0
6	6	0
4	4	0
3	3	0
880	748	132

*Does not include 4-ANPP.

Fentanyl Analog* Deaths by Age

January – December 2023

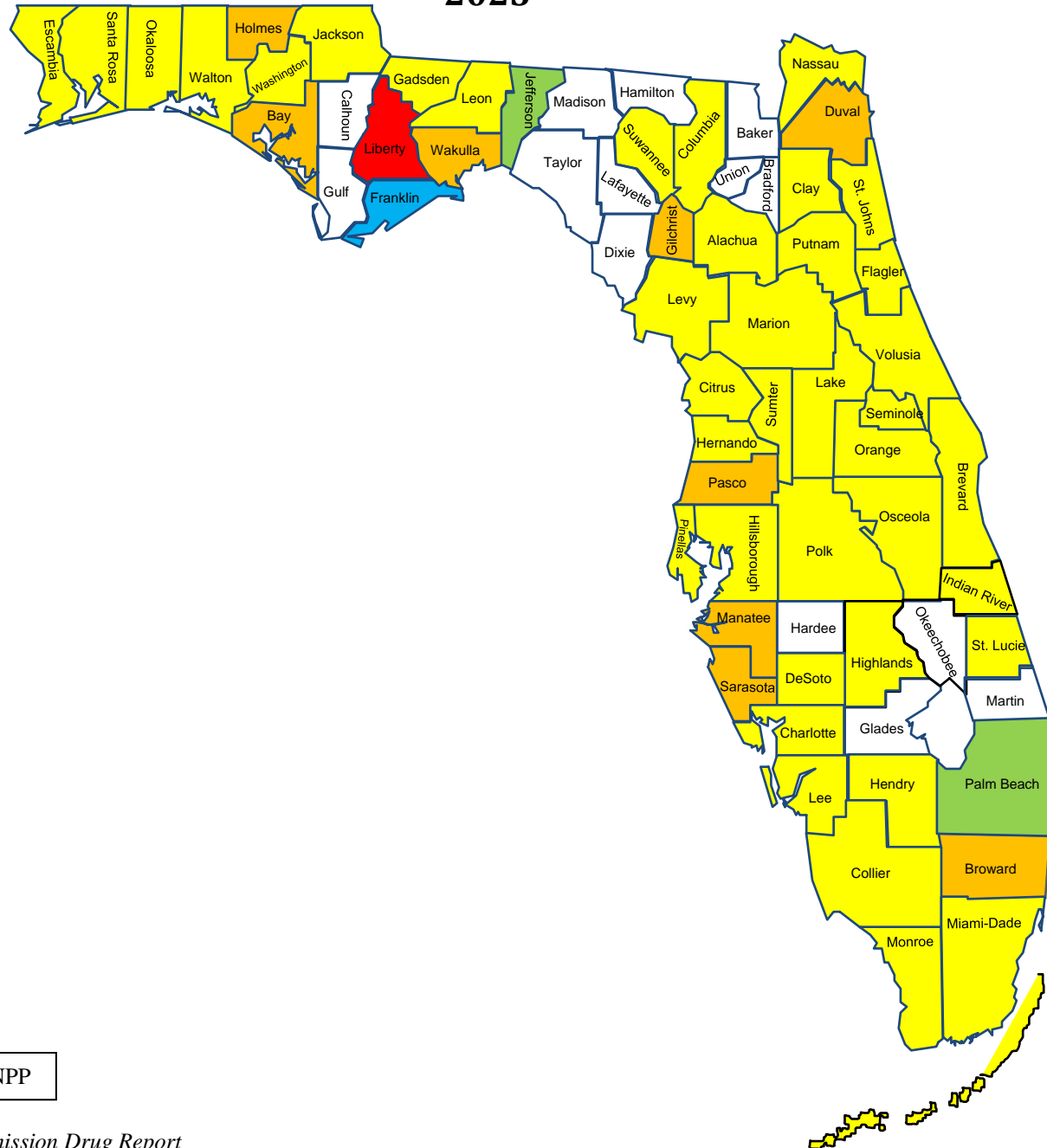
Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	24
2	Tallahassee	20
3	Live Oak	2
4	Jacksonville	70
5	Leesburg	13
6	St. Petersburg	62
7	Daytona Beach	19
8	Gainesville	5
9	Orlando	6
10	Lakeland	32
11	Miami	81
12	Sarasota	55
13	Tampa	2
14	Panama City	16
15	West Palm Beach	207
16	Florida Keys	1
17	Ft. Lauderdale	196
18	Melbourne	7
19	Ft. Pierce	2
20	Naples	19
21	Ft. Myers	28
22	Port Charlotte	1
23	St. Augustine	6
24	Sanford	4
25	Kissimmee	3
Statewide Totals		881

Fentanyl Analogs Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
22	0	1	7	9	5
20	0	2	3	12	3
2	0	0	2	0	0
65	1	1	17	28	18
10	0	0	1	5	4
46	0	1	8	28	9
18	0	1	2	4	11
2	1	0	1	0	0
6	0	0	3	1	2
8	0	1	1	5	1
75	0	5	21	24	25
18	0	1	3	8	6
1	0	0	0	1	0
16	0	3	2	8	3
203	0	15	52	88	48
0	0	0	0	0	0
186	0	15	47	83	41
3	0	0	1	1	1
2	0	0	1	1	0
6	0	1	2	1	2
26	1	2	1	14	8
1	0	0	1	0	0
6	0	0	0	2	4
4	0	0	0	0	4
3	0	0	1	2	0
749	3	49	177	325	195

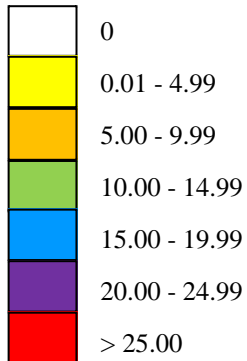
Fentanyl Analogs Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
2	0	0	1	1	0
0	0	0	0	0	0
0	0	0	0	0	0
5	0	1	1	3	0
3	0	1	0	1	1
16	0	0	4	5	7
1	0	0	1	0	0
3	0	0	1	1	1
0	0	0	0	0	0
24	0	1	8	9	6
6	0	0	2	2	2
37	0	1	9	21	6
1	0	0	0	1	0
0	0	0	0	0	0
4	0	0	2	0	2
1	0	0	0	0	1
10	0	0	4	2	4
4	0	0	0	2	2
0	0	0	0	0	0
13	0	0	5	6	2
2	0	0	0	1	1
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
132	0	4	38	55	35

*Does not include 4-ANPP.

Fentanyl Analog* Deaths by County 2023



Occurrences
Per 100,000 Population



*Does not include 4-ANPP

Cocaine Deaths

January – December 2023

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

Total Deaths with Cocaine		
Total	Cause	Present
121	102	19
21	15	6
12	11	1
317	239	78
72	57	15
371	241	130
106	79	27
29	20	9
318	225	93
87	60	27
422	293	129
151	100	51
244	143	101
16	9	7
381	172	209
19	11	8
349	255	94
102	58	44
72	53	19
54	37	17
108	65	43
13	5	8
39	18	21
28	25	3
113	84	29
3,565	2,377	1,188

Deaths with Cocaine Only		
Total	Cause	Present
21	18	3
5	5	0
2	2	0
36	24	12
11	9	2
29	12	17
12	6	6
13	8	5
45	30	15
18	16	2
48	30	18
18	11	7
41	19	22
1	0	1
29	13	16
1	0	1
35	19	16
16	6	10
8	6	2
3	0	3
9	4	5
0	0	0
9	3	6
3	3	0
12	8	4
425	252	173

Deaths with Cocaine in Combination with Other Drugs		
Total	Cause	Present
100	84	16
16	10	6
10	9	1
281	215	66
61	48	13
342	229	113
94	73	21
16	12	4
273	195	78
69	44	25
374	263	111
133	89	44
203	124	79
15	9	6
352	159	193
18	11	7
314	236	78
86	52	34
64	47	17
51	37	14
99	61	38
13	5	8
30	15	15
25	22	3
101	76	25
3,140	2,125	1,015

Cocaine Deaths by Age

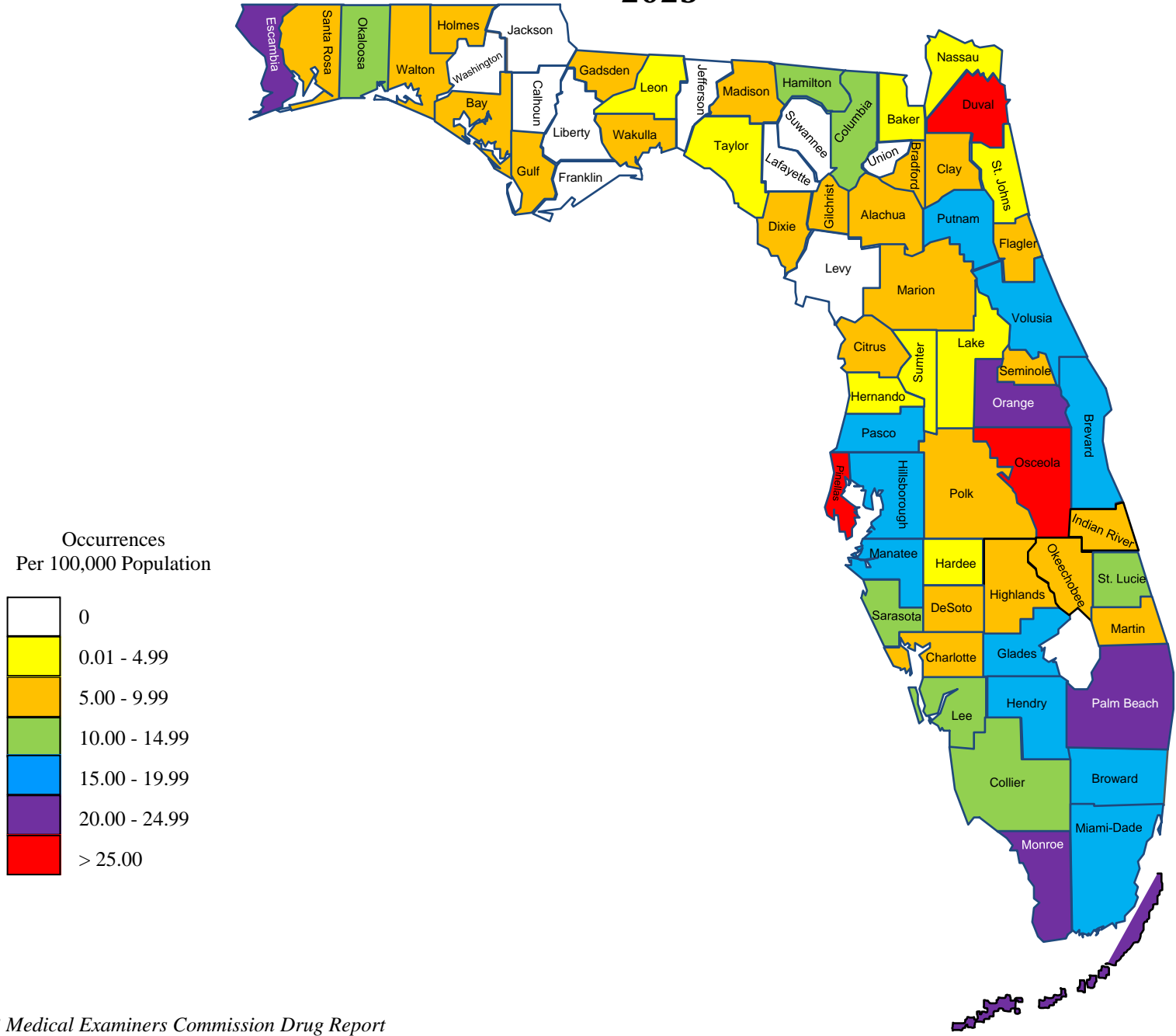
January – December 2023

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	121
2	Tallahassee	21
3	Live Oak	12
4	Jacksonville	317
5	Leesburg	72
6	St. Petersburg	371
7	Daytona Beach	106
8	Gainesville	29
9	Orlando	318
10	Lakeland	87
11	Miami	422
12	Sarasota	151
13	Tampa	244
14	Panama City	16
15	West Palm Beach	381
16	Florida Keys	19
17	Ft. Lauderdale	349
18	Melbourne	102
19	Ft. Pierce	72
20	Naples	54
21	Ft. Myers	108
22	Port Charlotte	13
23	St. Augustine	39
24	Sanford	28
25	Kissimmee	113
Statewide Totals		3,565

Cocaine Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
102	0	4	13	33	52
15	0	2	0	6	7
11	0	0	1	5	5
239	0	5	34	92	108
57	0	2	6	16	33
241	1	8	38	99	95
79	0	2	9	26	42
20	0	0	2	9	9
225	1	4	44	89	87
60	0	2	7	22	29
293	0	18	51	94	130
100	0	4	14	44	38
143	0	6	17	45	75
9	0	1	0	5	3
172	0	5	33	70	64
11	0	0	2	4	5
255	1	11	44	104	95
58	0	2	8	23	25
53	0	4	7	22	20
37	0	3	5	16	13
65	1	1	14	22	27
5	0	0	0	1	4
18	0	1	0	8	9
25	0	1	3	9	12
84	1	7	17	37	22
2,377	5	93	369	901	1,009

Cocaine Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
19	0	2	1	9	7
6	0	0	0	2	4
1	0	0	0	1	0
78	0	1	11	30	36
15	0	1	2	8	4
130	0	7	22	46	55
27	0	1	6	15	5
9	0	0	2	2	5
93	1	5	22	32	33
27	0	2	2	13	10
129	1	13	23	51	41
51	1	2	10	25	13
101	0	6	12	41	42
7	0	0	1	4	2
209	0	15	63	76	55
8	0	0	2	2	4
94	0	7	21	28	38
44	0	2	10	19	13
19	0	0	3	7	9
17	0	0	5	6	6
43	1	4	6	18	14
8	0	0	1	4	3
21	0	1	6	7	7
3	0	0	1	0	2
29	0	2	3	16	8
1,188	4	71	235	462	416

Cocaine Deaths by County 2023



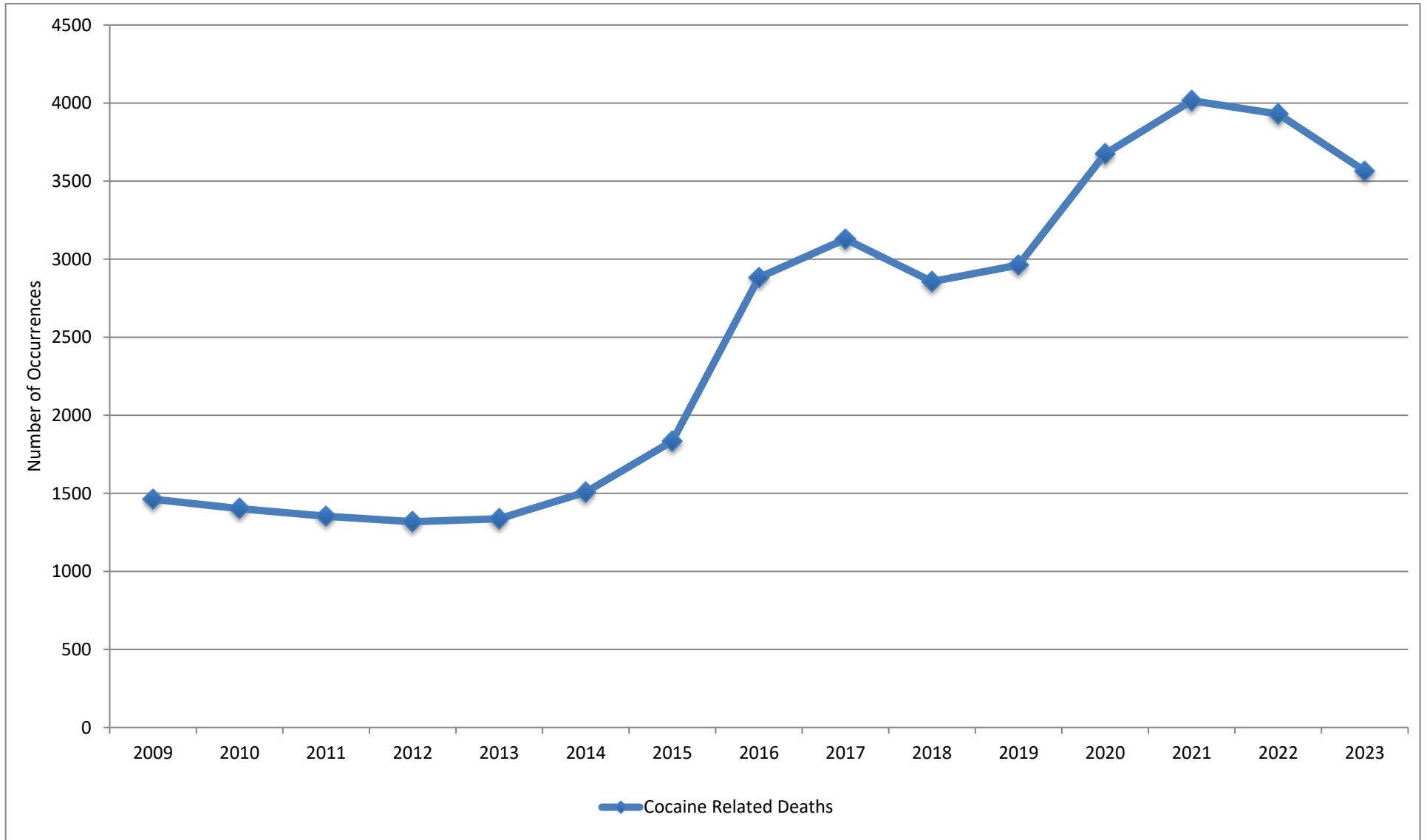
Cocaine Related Deaths by Medical Examiner District
(Present and Cause)
2009 to 2023

District	Area of Florida	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
1	Pensacola	33	36	34	34	31	56	80	57	58	71	73	93	120	165	121
2	Tallahassee	30	25	36	25	23	20	18	32	15	11	20	27	26	32	21
3	Live Oak	16	9	8	13	10	6	5	10	4	12	7	6	12	15	12
4	Jacksonville	125	115	113	119	119	107	146	266	359	251	279	335	341	357	317
5	Leesburg	56	52	48	46	57	62	54	128	109	84	77	87	98	110	72
6	St. Petersburg	139	134	112	125	100	98	101	157	187	225	250	284	334	354	371
7	Daytona Beach	58	44	43	36	37	34	37	51	88	102	76	127	130	117	106
8	Gainesville	39	39	34	30	29	30	31	41	43	35	46	48	55	60	29
9	Orlando	145	128	124	120	137	181	203	230	234	266	265	290	364	326	318
10	Lakeland	35	42	29	27	37	33	33	53	70	67	50	77	93	95	87
11	Miami	155	198	184	198	226	234	289	439	401	363	418	449	471	425	422
12	Sarasota	59	57	54	60	60	84	134	147	132	96	117	157	158	174	151
13	Tampa	54	83	96	59	74	65	84	108	109	140	140	216	255	241	244
14	Panama City	20	9	9	10	11	13	15	5	15	20	30	26	22	20	16
15	West Palm Beach	126	106	91	87	105	143	173	405	417	338	343	407	434	429	381
16	Florida Keys	14	11	7	13	4	6	13	20	20	11	15	12	15	29	19
17	Ft. Lauderdale	135	127	115	129	102	99	152	328	321	236	277	427	449	423	349
18	Melbourne	59	49	38	52	53	60	86	103	128	114	130	158	132	58	102
19	Ft. Pierce	35	20	40	24	34	50	49	71	88	69	66	89	102	93	72
20	Naples	21	13	23	16	10	29	23	40	32	45	61	58	78	80	54
21	Ft. Myers	48	53	73	56	51	63	71	99	152	146	98	128	135	134	108
22	Port Charlotte	9	5	7	9	2	10	12	9	13	10	12	17	20	15	13
23	St. Augustine	19	23	15	11	11	1	9	23	39	33	24	53	39	35	39
24	Sanford	32	24	20	19	14	24	16	37	41	50	44	33	40	48	28
25	Kissimmee								23	54	61	44	71	92	95	113
Statewide Total		1,462	1,402	1,353	1,318	1,337	1,508	1,834	2,882	3,129	2,856	2,962	3,675	4,015	3,930	3,565

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)
2009 to 2023



Heroin Deaths

January – December 2023

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 Heroin		
Total	Cause	Present
5	5	0
2	1	1
0	0	0
3	3	0
2	2	0
12	11	1
0	0	0
2	2	0
2	2	0
0	0	0
9	9	0
2	2	0
8	8	0
2	2	0
20	12	8
1	1	0
15	7	8
0	0	0
0	0	0
1	1	0
4	4	0
0	0	0
1	1	0
1	1	0
1	1	0
93	75	18

Deaths with Heroin 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
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	0	0
0	0	0
0	0	0
0	0	0

Deaths with Heroin in Combination with Other Drugs		
Total	Cause	Present
5	5	0
2	1	1
0	0	0
3	3	0
2	2	0
12	11	1
0	0	0
2	2	0
2	2	0
0	0	0
9	9	0
2	2	0
8	8	0
2	2	0
20	12	8
1	1	0
15	7	8
0	0	0
0	0	0
1	1	0
4	4	0
0	0	0
1	1	0
1	1	0
1	1	0
93	75	18

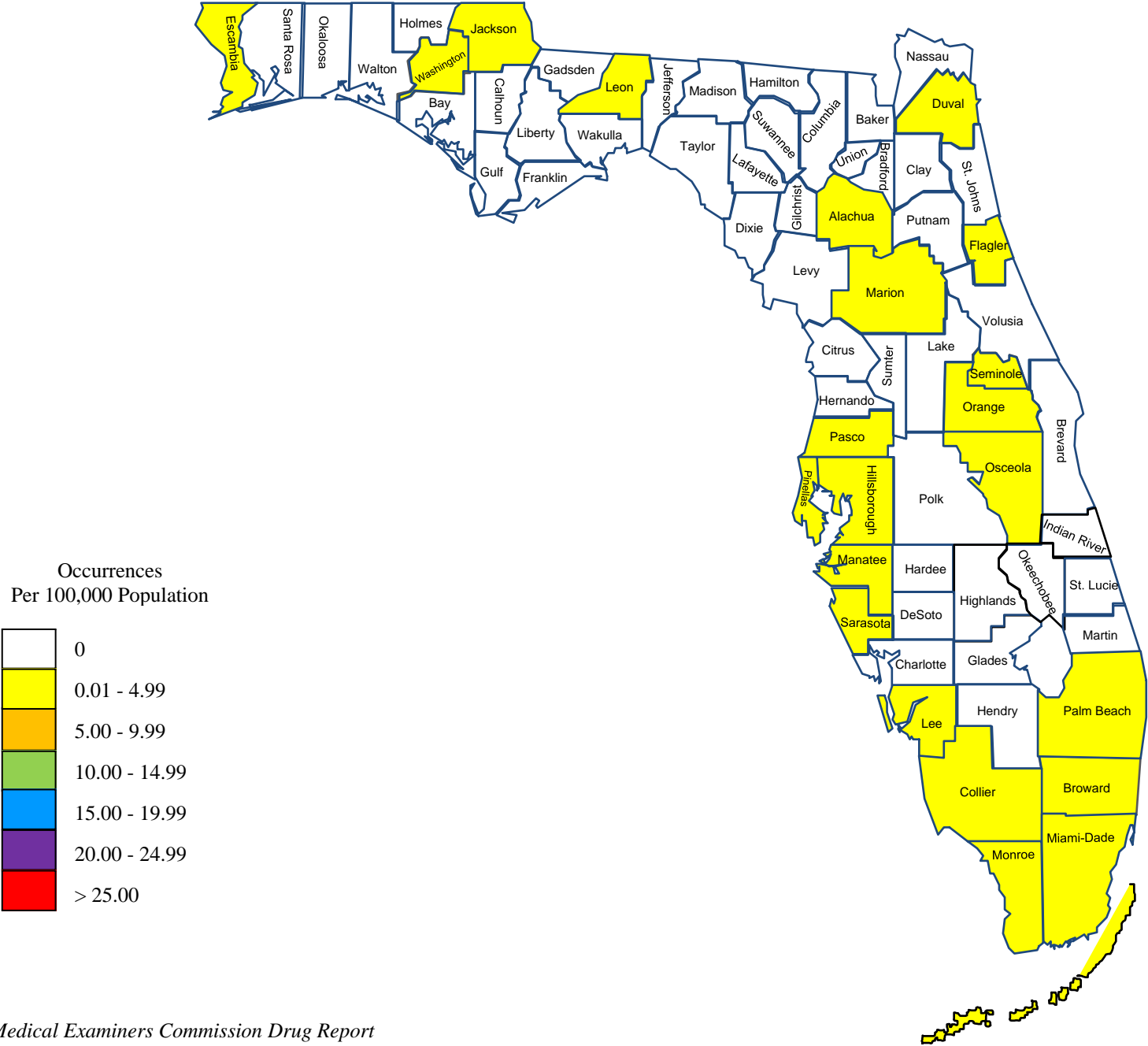
Heroin Deaths by Age
January – December 2023

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	5
2	Tallahassee	2
3	Live Oak	0
4	Jacksonville	3
5	Leesburg	2
6	St. Petersburg	12
7	Daytona Beach	0
8	Gainesville	2
9	Orlando	2
10	Lakeland	0
11	Miami	9
12	Sarasota	2
13	Tampa	8
14	Panama City	2
15	West Palm Beach	20
16	Florida Keys	1
17	Ft. Lauderdale	15
18	Melbourne	0
19	Ft. Pierce	0
20	Naples	1
21	Ft. Myers	4
22	Port Charlotte	0
23	St. Augustine	1
24	Sanford	1
25	Kissimmee	1
Statewide Totals		93

Heroin Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
5	0	0	0	2	3
1	0	1	0	0	0
0	0	0	0	0	0
3	0	0	1	1	1
2	0	0	0	0	2
11	0	0	2	5	4
0	0	0	0	0	0
2	0	0	0	1	1
2	0	0	0	0	2
0	0	0	0	0	0
9	0	0	0	3	6
2	0	0	1	1	0
8	0	1	1	5	1
2	0	0	1	1	0
12	0	1	3	7	1
1	0	0	0	0	1
7	0	1	1	2	3
0	0	0	0	0	0
0	0	0	0	0	0
1	0	0	1	0	0
4	0	0	2	2	0
0	0	0	0	0	0
1	0	0	0	1	0
1	0	0	0	1	0
1	0	0	0	1	0
75	0	4	13	33	25

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	0	1	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
1	0	0	0	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	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	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	0	0	0
0	0	0	0	0	0
18	0	1	3	5	9

Heroin Deaths by County 2023



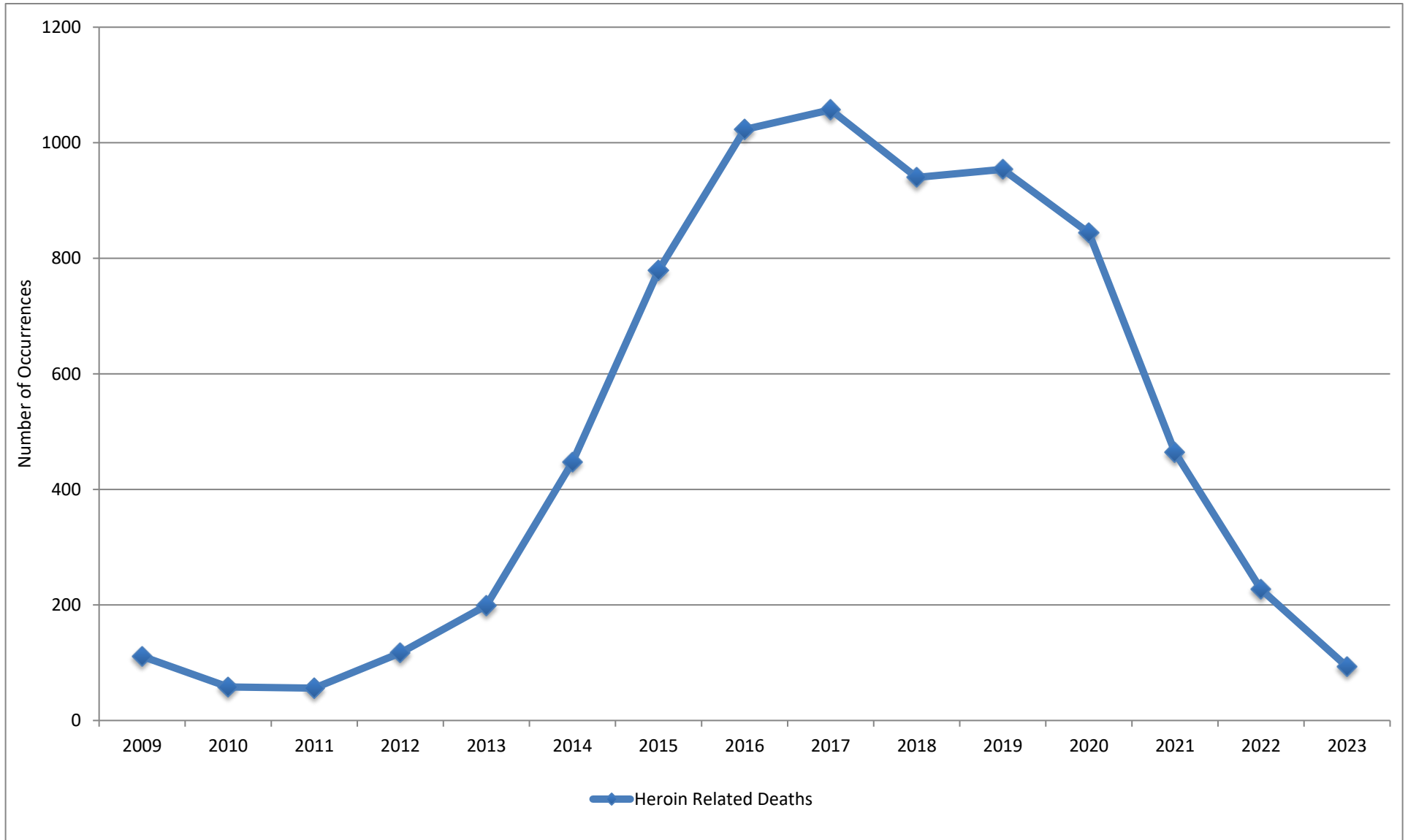
Heroin Related Deaths by Medical Examiner District (Present and Cause) 2009 to 2023

District	Area of Florida	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
1	Pensacola	2	0	0	1	3	12	28	34	30	35	35	63	46	22	5
2	Tallahassee	0	0	1	0	1	2	0	1	2	1	4	5	4	3	2
3	Live Oak	0	0	0	0	1	0	1	0	2	0	0	5	0	0	0
4	Jacksonville	4	1	3	14	15	16	45	81	98	60	50	35	6	7	3
5	Leesburg	1	0	1	3	2	16	8	40	34	44	56	46	30	12	2
6	St. Petersburg	9	3	1	1	4	7	14	18	22	56	73	55	20	12	12
7	Daytona Beach	3	1	0	1	3	4	20	21	37	75	34	44	21	11	0
8	Gainesville	0	0	0	2	1	2	3	2	4	2	5	4	6	2	2
9	Orlando	24	10	18	26	41	83	108	68	59	54	58	37	17	6	2
10	Lakeland	2	1	0	1	4	7	10	11	10	5	11	19	4	6	0
11	Miami	30	26	15	33	40	60	92	139	97	59	68	43	21	8	9
12	Sarasota	4	2	2	8	19	55	68	32	22	17	20	15	6	1	2
13	Tampa	2	1	2	2	3	22	35	52	75	114	77	119	49	32	8
14	Panama City	0	1	0	0	2	2	4	8	4	7	18	12	8	0	2
15	West Palm Beach	7	4	6	6	20	51	165	205	215	174	205	138	98	59	20
16	Florida Keys	1	0	0	1	1	0	1	7	4	0	1	2	1	0	1
17	Ft. Lauderdale	8	5	3	9	11	28	80	180	186	110	133	118	73	32	15
18	Melbourne	2	0	0	0	2	7	12	21	25	18	8	2	4	1	0
19	Ft. Pierce	1	1	1	2	3	7	8	7	13	4	3	3	1	0	0
20	Naples	0	0	0	0	2	14	11	15	15	14	17	24	18	4	1
21	Ft. Myers	9	0	1	4	12	30	43	30	34	35	22	22	10	3	4
22	Port Charlotte	1	0	0	1	1	3	2	3	1	3	4	3	4	0	0
23	St. Augustine	0	1	0	1	1	1	2	6	14	5	11	9	3	1	1
24	Sanford	1	1	2	1	7	18	19	27	33	31	23	7	5	0	1
25	Kissimmee								15	21	17	18	14	9	5	1
Statewide Totals		111	58	56	117	199	447	779	1,023	1,057	940	954	844	464	227	93

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)
2009 to 2023



Methamphetamine Deaths

January – December 2023

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
258	193	65
42	26	16
38	24	14
253	187	66
174	144	30
395	326	69
141	109	32
36	23	13
137	92	45
157	116	41
101	56	45
107	80	27
200	154	46
63	37	26
57	30	27
3	3	0
78	50	28
115	83	32
48	39	9
33	25	8
111	88	23
27	17	10
42	34	8
22	18	4
44	29	15
2,682	1,983	699

Deaths with Methamphetamine Only		
Total	Cause	Present
4	1	3
2	1	1
1	1	0
2	1	1
3	3	0
5	0	5
0	0	0
3	0	3
6	5	1
9	9	0
2	1	1
7	2	5
17	11	6
2	1	1
1	0	1
0	0	0
2	1	1
0	0	0
8	6	2
0	0	0
1	0	1
1	1	0
0	0	0
0	0	0
3	1	2
79	45	34

Deaths with Methamphetamine in Combination with Other Drugs		
Total	Cause	Present
254	192	62
40	25	15
37	23	14
251	186	65
171	141	30
390	326	64
141	109	32
33	23	10
131	87	44
148	107	41
99	55	44
100	78	22
183	143	40
61	36	25
56	30	26
3	3	0
76	49	27
115	83	32
40	33	7
33	25	8
110	88	22
26	16	10
42	34	8
22	18	4
41	28	13
2,603	1,938	665

Methamphetamine Deaths by Age

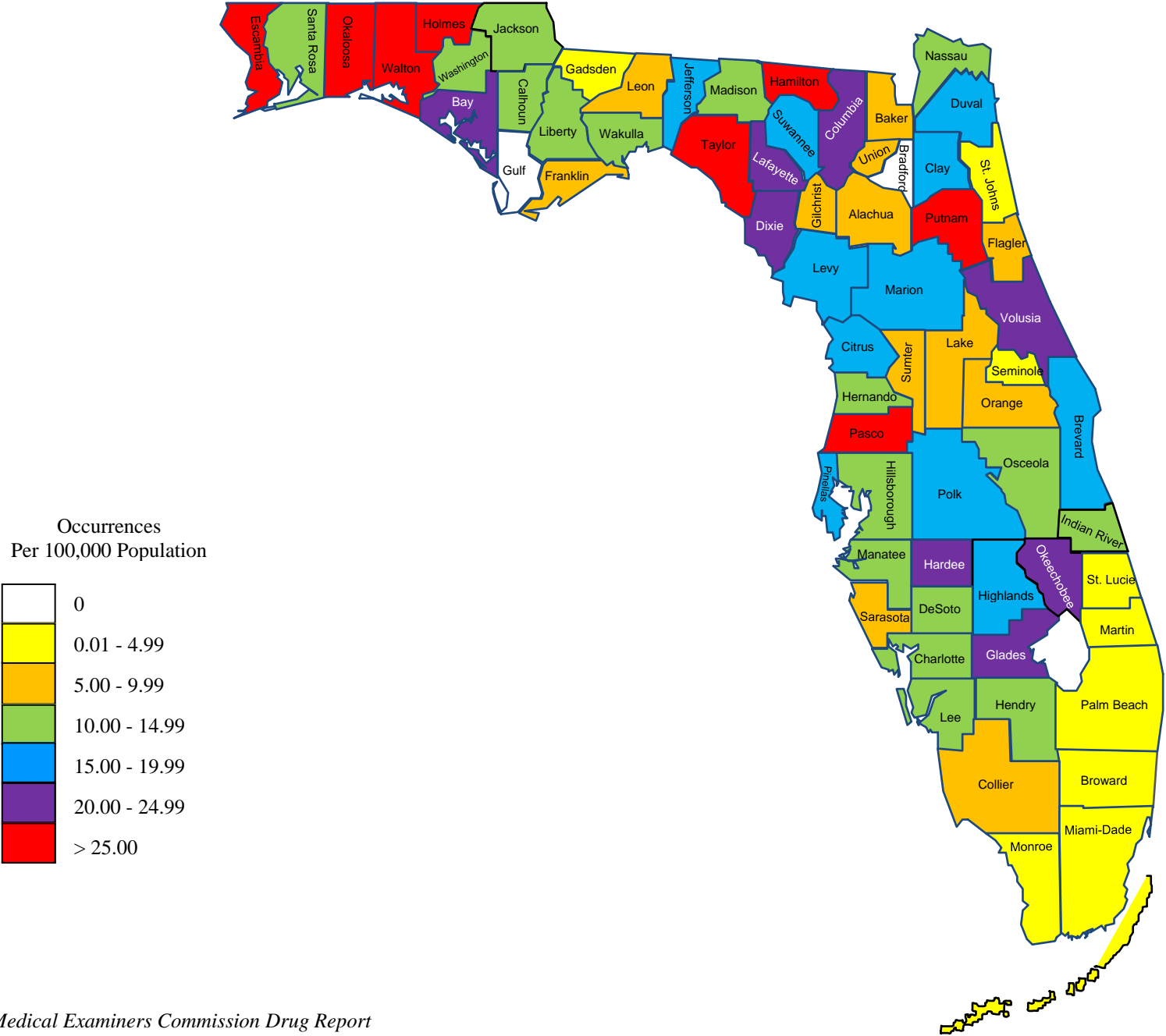
January – December 2023

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	258
2	Tallahassee	42
3	Live Oak	38
4	Jacksonville	253
5	Leesburg	174
6	St. Petersburg	395
7	Daytona Beach	141
8	Gainesville	36
9	Orlando	137
10	Lakeland	157
11	Miami	101
12	Sarasota	107
13	Tampa	200
14	Panama City	63
15	West Palm Beach	57
16	Florida Keys	3
17	Ft. Lauderdale	78
18	Melbourne	115
19	Ft. Pierce	48
20	Naples	33
21	Ft. Myers	111
22	Port Charlotte	27
23	St. Augustine	42
24	Sanford	22
25	Kissimmee	44
Statewide Totals		2,682

Methamphetamine Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
193	0	4	32	89	68
26	0	0	7	13	6
24	0	1	2	13	8
187	0	3	46	84	54
144	1	5	23	55	60
326	0	9	53	148	116
109	0	3	16	56	34
23	0	0	5	11	7
92	0	3	19	46	24
116	2	3	17	47	47
56	0	4	14	24	14
80	0	3	12	45	20
154	0	3	25	77	49
37	0	2	2	22	11
30	0	1	9	13	7
3	0	0	0	0	3
50	0	0	14	21	15
83	0	2	13	34	34
39	0	2	8	22	7
25	0	1	4	15	5
88	1	0	14	46	27
17	0	0	3	9	5
34	0	1	7	12	14
18	0	1	5	5	7
29	0	0	7	16	6
1,983	4	51	357	923	648

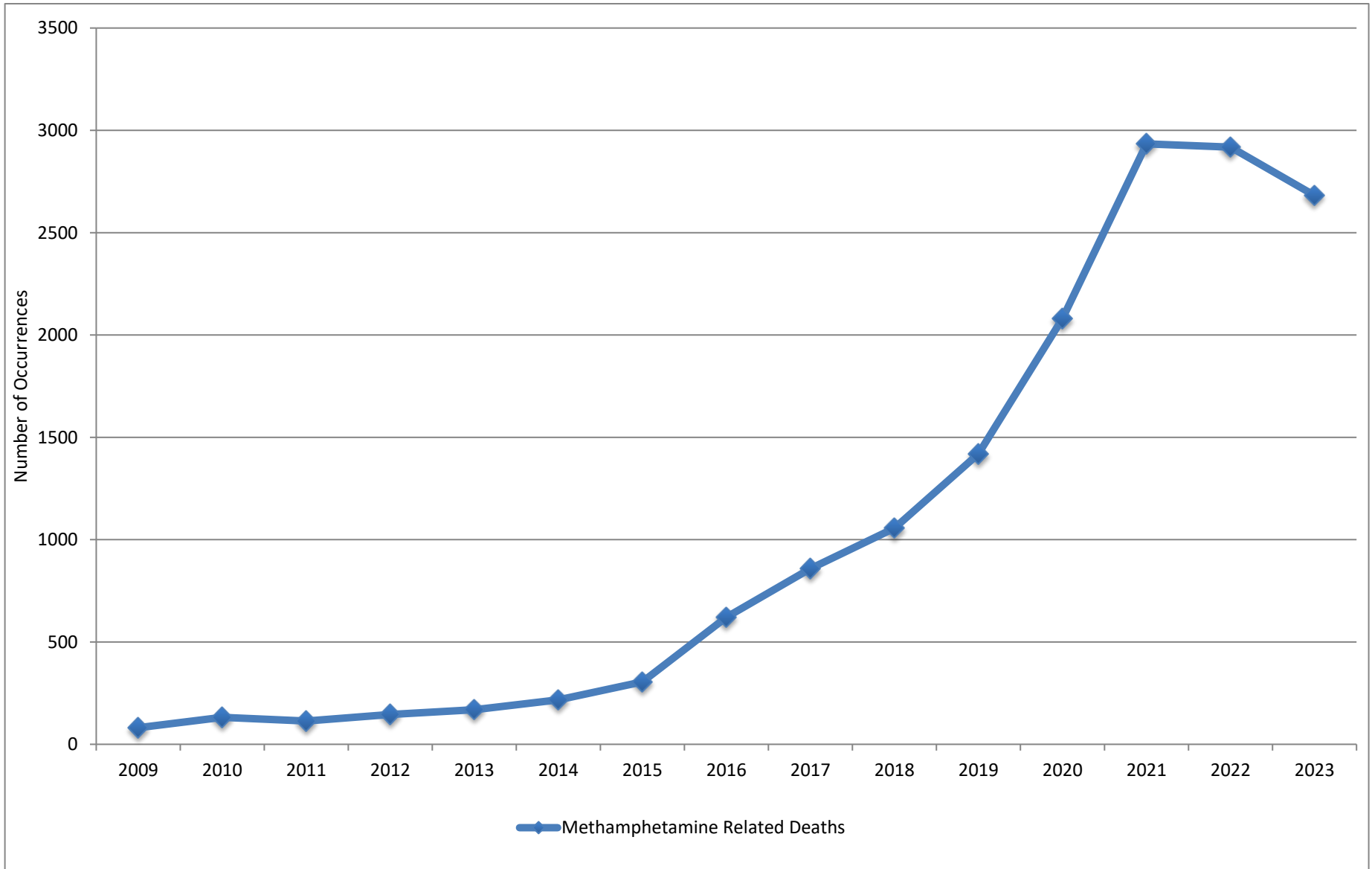
Methamphetamine Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
65	2	7	18	22	16
16	0	1	4	5	6
14	0	2	3	4	5
66	2	1	13	39	11
30	0	0	3	21	6
69	1	5	20	30	13
32	0	0	4	18	10
13	0	2	1	5	5
45	0	2	14	19	10
41	0	3	10	21	7
45	0	5	17	17	6
27	0	2	2	19	4
46	0	4	8	17	17
26	0	1	4	11	10
27	0	2	10	10	5
0	0	0	0	0	0
28	0	5	7	14	2
32	0	1	9	14	8
9	0	0	2	7	0
8	0	0	2	2	4
23	2	0	3	9	9
10	0	0	3	5	2
8	0	0	1	5	2
4	0	0	2	2	0
15	0	0	4	6	5
699	7	43	164	322	163

Methamphetamine Deaths by County 2023



Historical Overview of Methamphetamine Occurrences

(Present and Cause)
2009 to 2023



Xylazine Deaths

January – December 2023

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 Xylazine		
Total	Cause	Present
4	4	0
1	1	0
1	0	1
119	63	56
2	2	0
44	21	23
29	29	0
0	0	0
5	4	1
22	8	14
83	68	15
94	15	79
0	0	0
1	1	0
36	35	1
2	0	2
47	43	4
1	1	0
3	3	0
15	1	14
26	26	0
0	0	0
14	14	0
0	0	0
1	1	0
550	340	210

Deaths with Xylazine 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
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	0	0
0	0	0

Deaths with Xylazine in Combination with Other Drugs		
Total	Cause	Present
4	4	0
1	1	0
1	0	1
119	63	56
2	2	0
44	21	23
29	29	0
0	0	0
5	4	1
22	8	14
83	68	15
94	15	79
0	0	0
1	1	0
36	35	1
2	0	2
47	43	4
1	1	0
3	3	0
15	1	14
26	26	0
0	0	0
14	14	0
0	0	0
1	1	0
550	340	210

Xylazine Deaths by Age

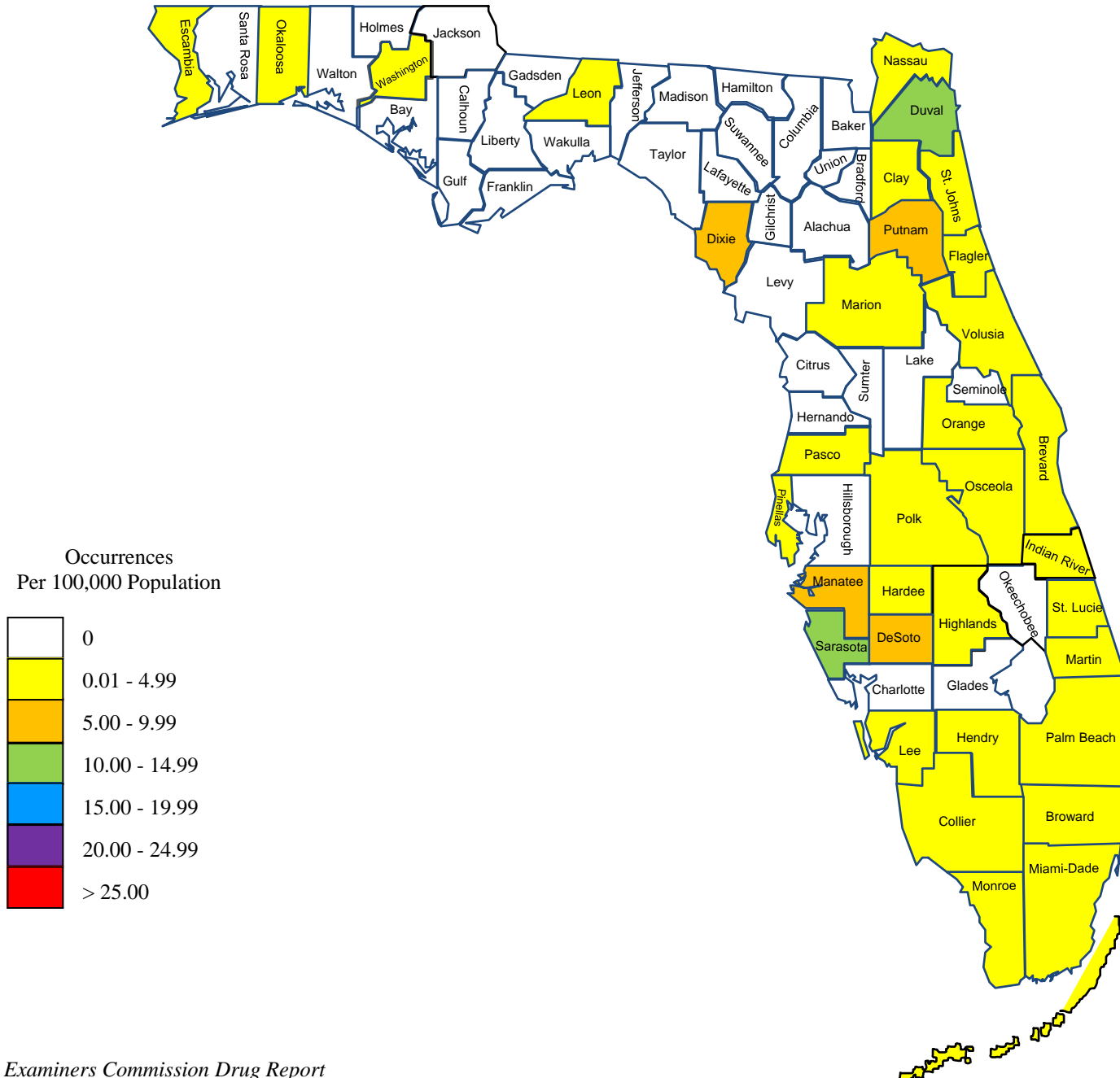
January – December 2023

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	4
2	Tallahassee	1
3	Live Oak	1
4	Jacksonville	119
5	Leesburg	2
6	St. Petersburg	44
7	Daytona Beach	29
8	Gainesville	0
9	Orlando	5
10	Lakeland	22
11	Miami	83
12	Sarasota	94
13	Tampa	0
14	Panama City	1
15	West Palm Beach	36
16	Florida Keys	2
17	Ft. Lauderdale	47
18	Melbourne	1
19	Ft. Pierce	3
20	Naples	15
21	Ft. Myers	26
22	Port Charlotte	0
23	St. Augustine	14
24	Sanford	0
25	Kissimmee	1
Statewide Totals		550

Xylazine Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
4	0	0	1	3	0
1	0	0	1	0	0
0	0	0	0	0	0
63	0	2	15	30	16
2	1	0	0	0	1
21	0	0	3	14	4
29	0	1	6	11	11
0	0	0	0	0	0
4	0	0	2	0	2
8	0	0	2	4	2
68	0	12	13	26	17
15	0	1	3	8	3
0	0	0	0	0	0
1	0	0	1	0	0
35	0	1	9	16	9
0	0	0	0	0	0
43	0	4	9	15	15
1	0	0	0	1	0
3	0	1	1	1	0
1	0	0	0	1	0
26	0	0	6	16	4
0	0	0	0	0	0
14	0	1	4	6	3
0	0	0	0	0	0
1	0	0	0	1	0
340	1	23	76	153	87

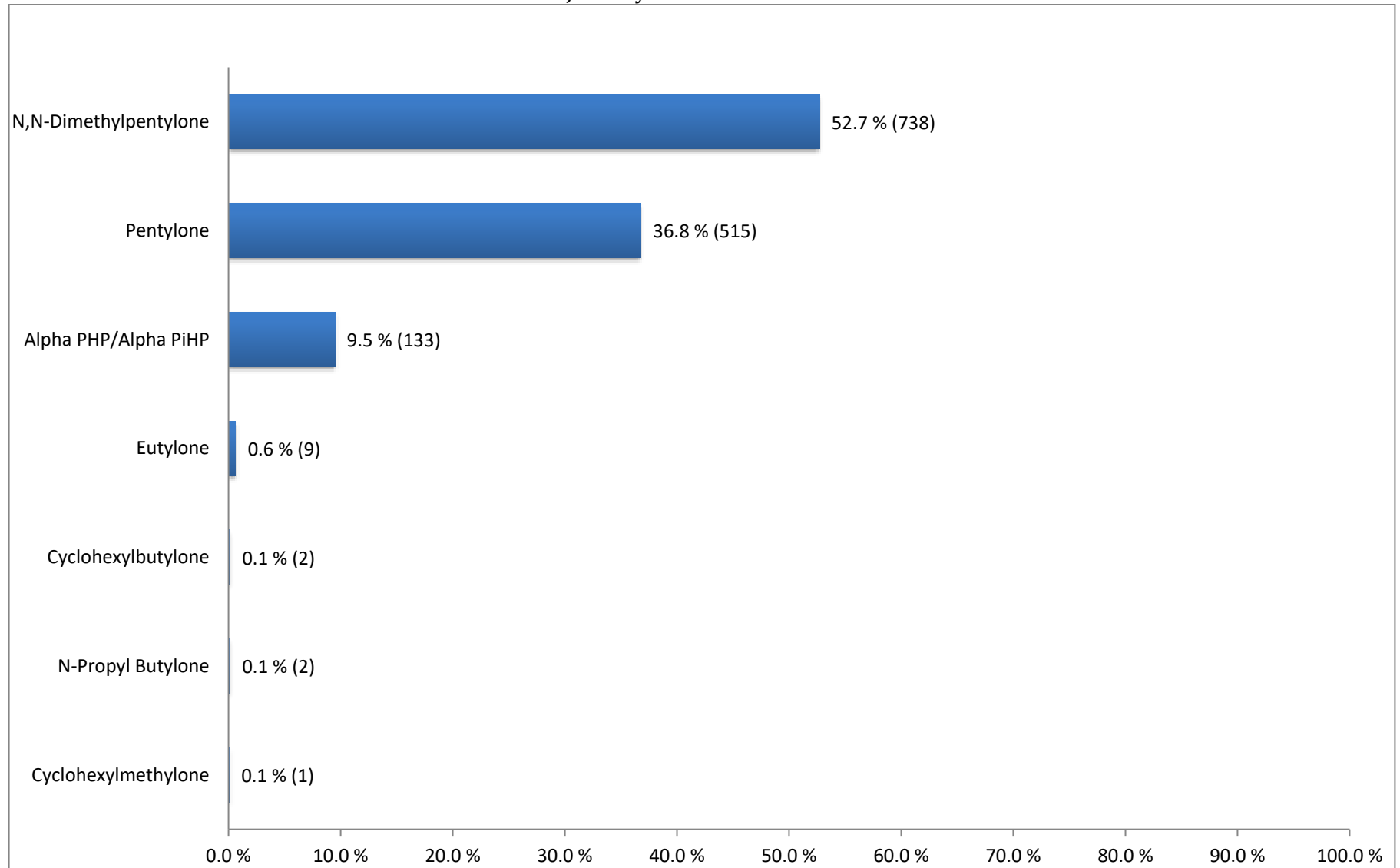
Xylazine Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
0	0	0	0	0	0
0	0	0	0	0	0
1	0	0	0	0	1
56	0	3	15	24	14
0	0	0	0	0	0
23	0	1	4	11	7
0	0	0	0	0	0
0	0	0	0	0	0
1	0	0	1	0	0
14	0	1	4	6	3
15	0	3	5	2	5
79	0	1	23	38	17
0	0	0	0	0	0
0	0	0	0	0	0
1	0	0	0	0	1
2	0	0	0	0	2
4	0	1	1	1	1
0	0	0	0	0	0
0	0	0	0	0	0
14	0	3	3	7	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
210	0	13	56	89	52

Xylazine Deaths by County 2023



Frequency of Occurrence of Cathinones

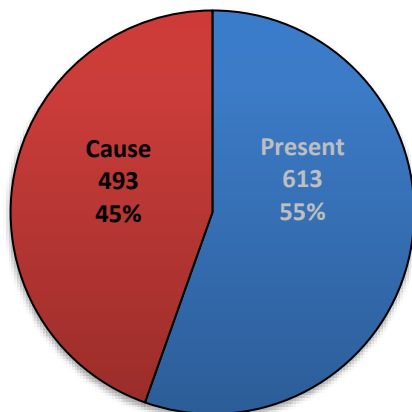
January – December 2023



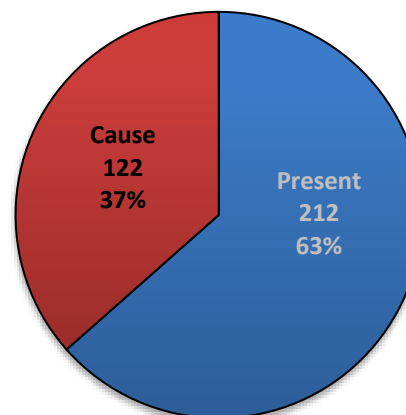
Note: Percentages may not sum to 100 percent because of rounding.

2023 Drug Detected at Death: Cause vs. Present

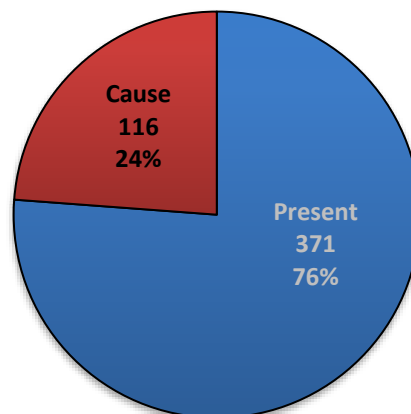
Alprazolam Deaths
Total Occurrences = 1,106



Diazepam Deaths
Total Occurrences = 334

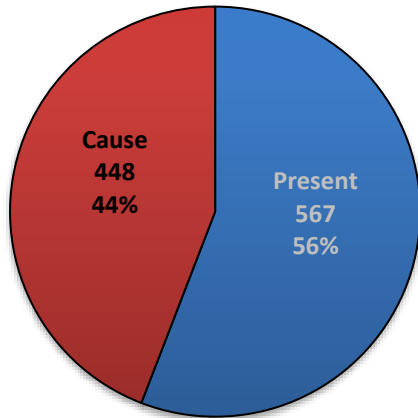


Clonazepam Deaths
Total Occurrences = 487

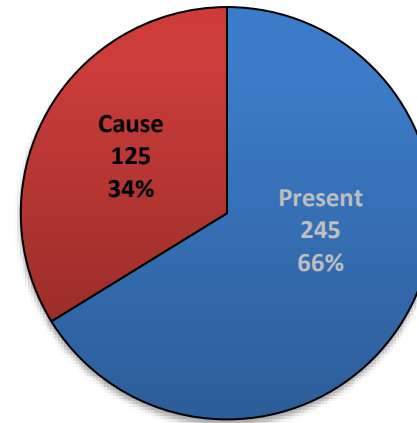


2023 Drug Detected at Death: Cause vs. Present

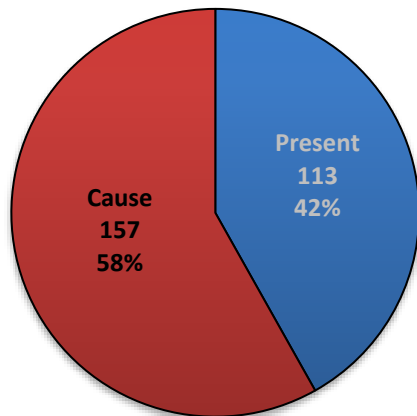
Oxycodone Deaths
Total Occurrences = 1,015



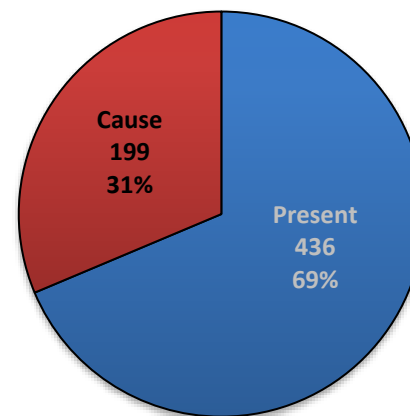
Hydrocodone Deaths
Total Occurrences = 370



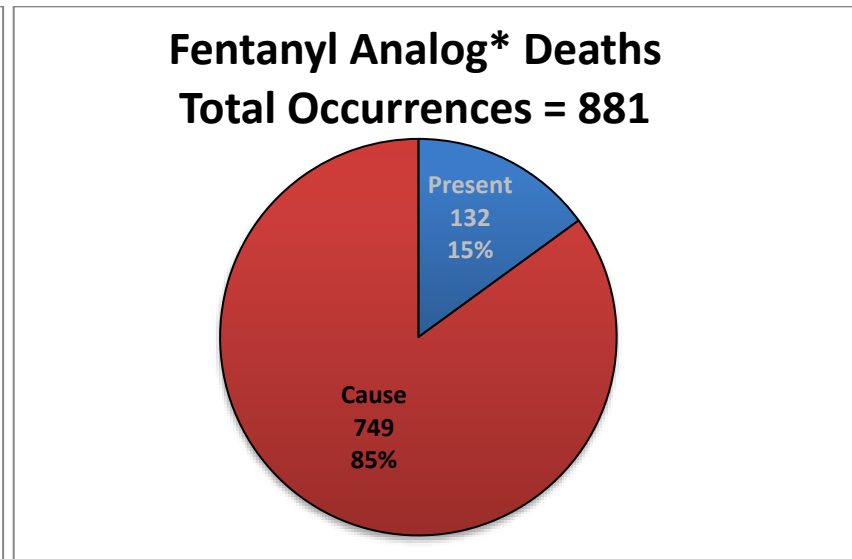
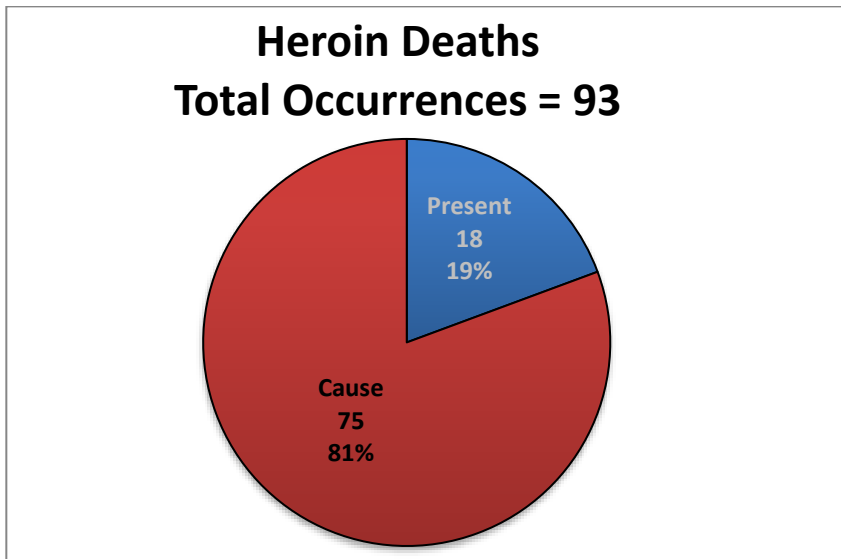
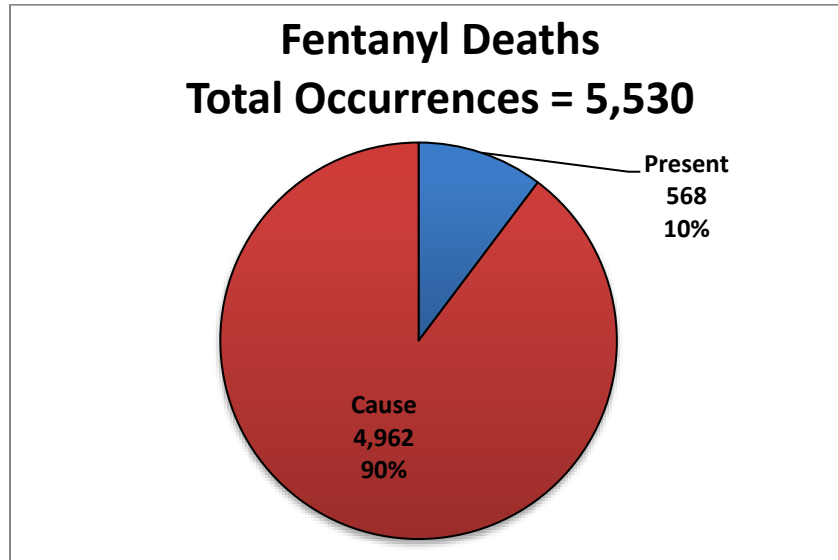
Methadone Deaths
Total Occurrences = 270



Morphine Deaths
Total Occurrences = 635



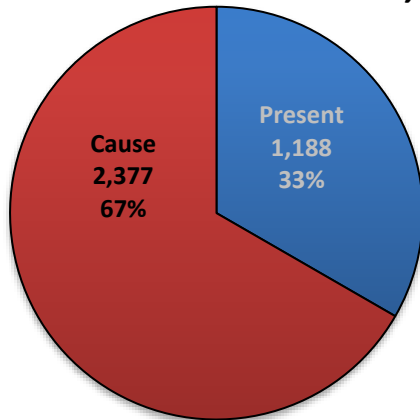
2023 Drug Detected at Death: Cause vs. Present



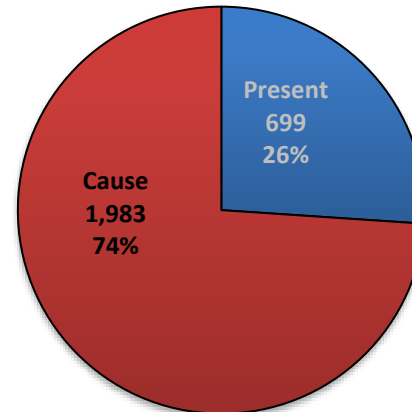
*Does not include 4-ANPP

2023 Drug Detected at Death: Cause vs. Present

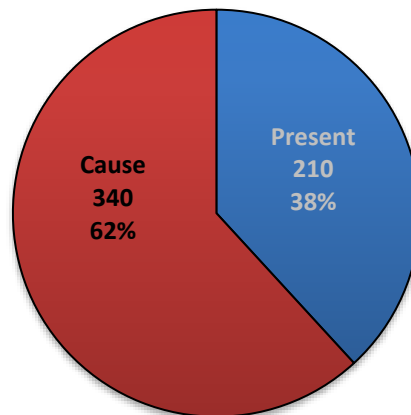
Cocaine Deaths
Total Occurrences = 3,565



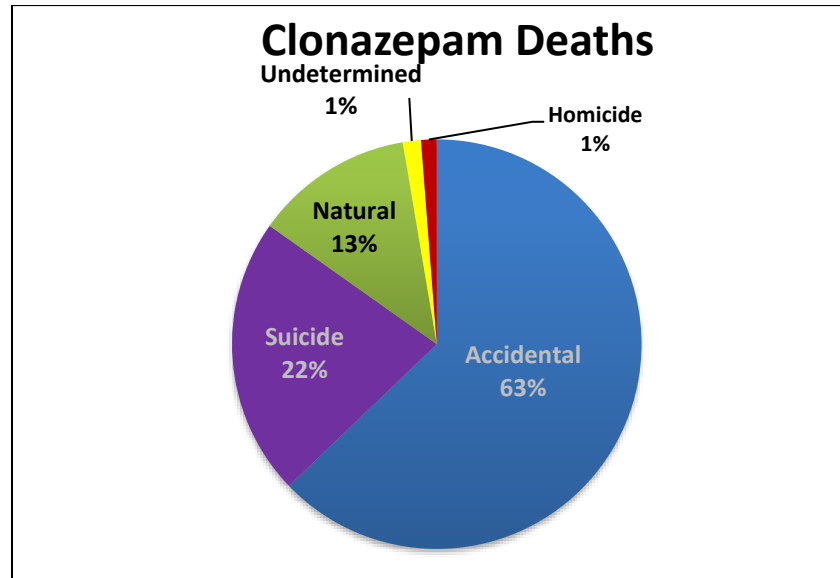
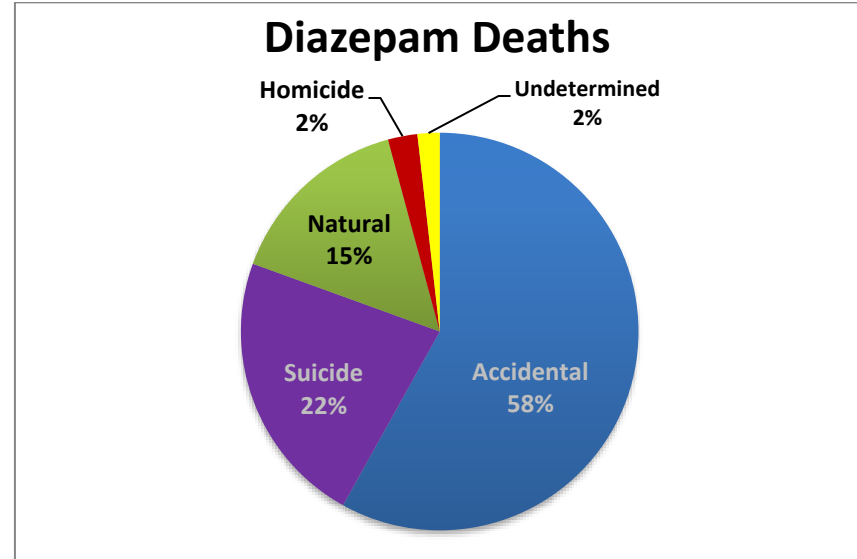
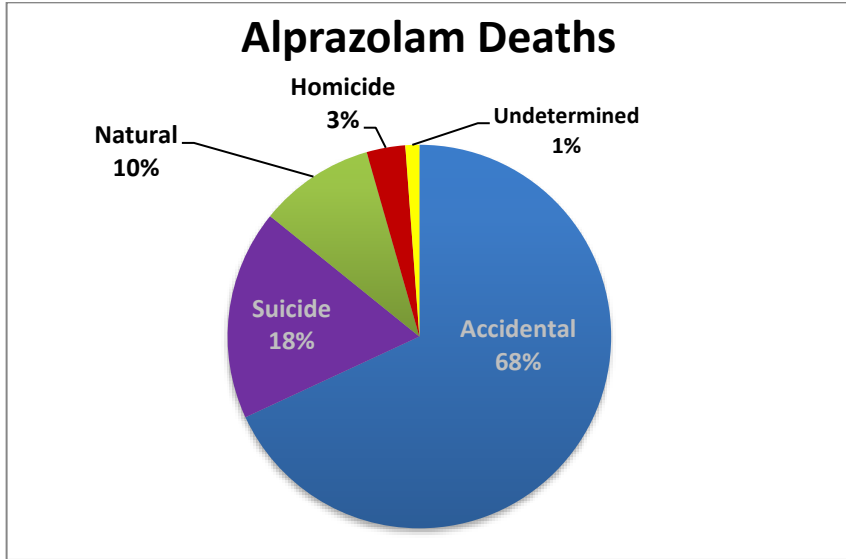
Methamphetamine Deaths
Total Occurrences = 2,682



Xylazine Deaths
Total Occurrences = 550

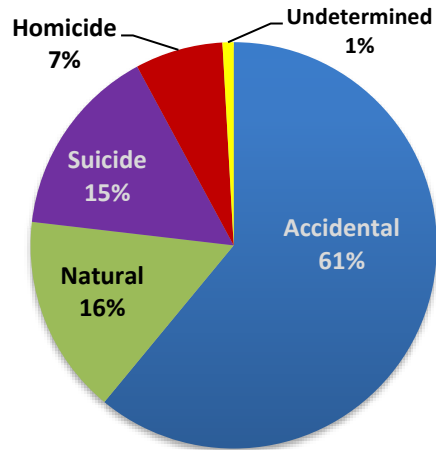


2023 Manner of Death for Reported Drug Occurrences

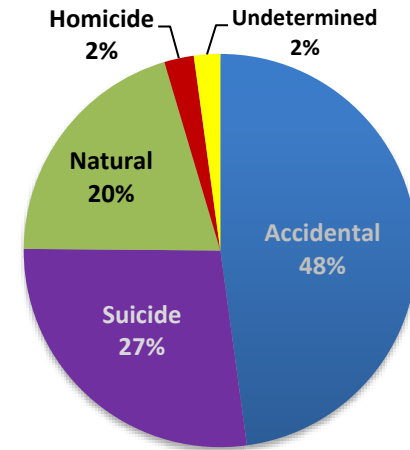


2023 Manner of Death for Reported Drug Occurrences

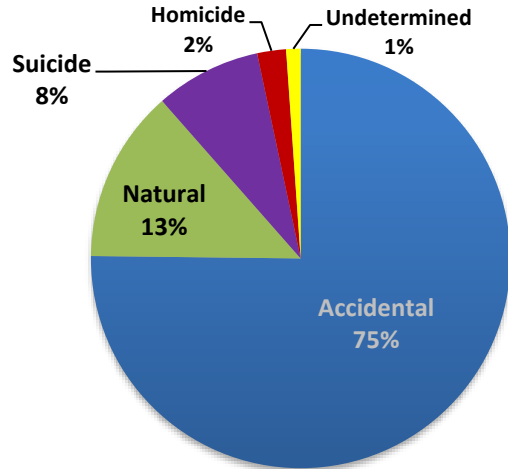
Oxycodone Deaths



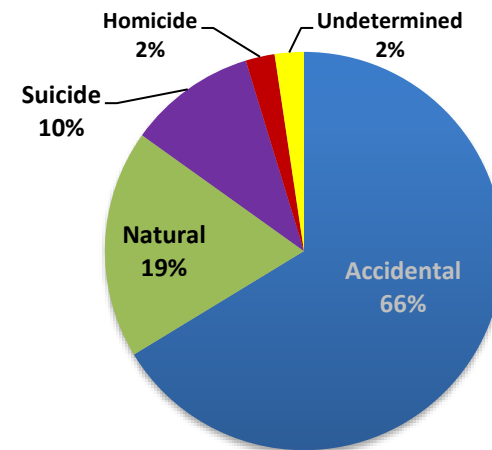
Hydrocodone Deaths



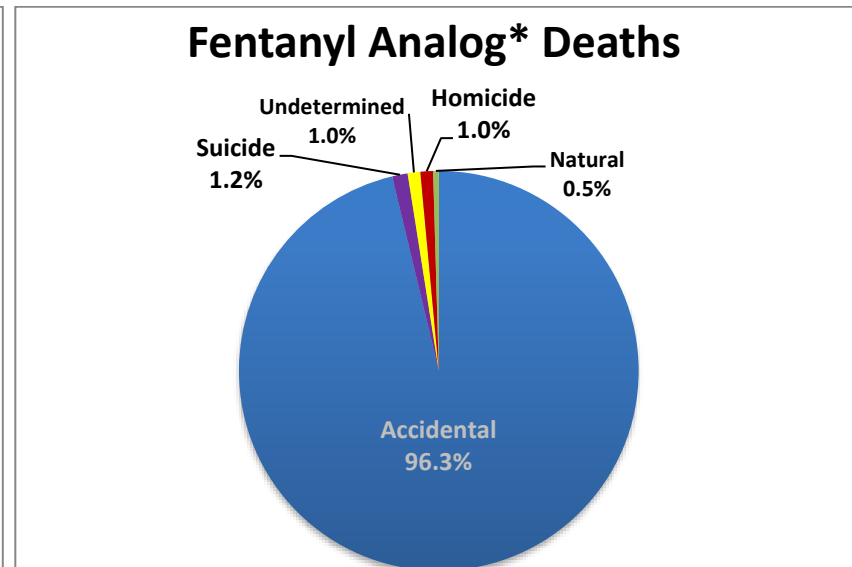
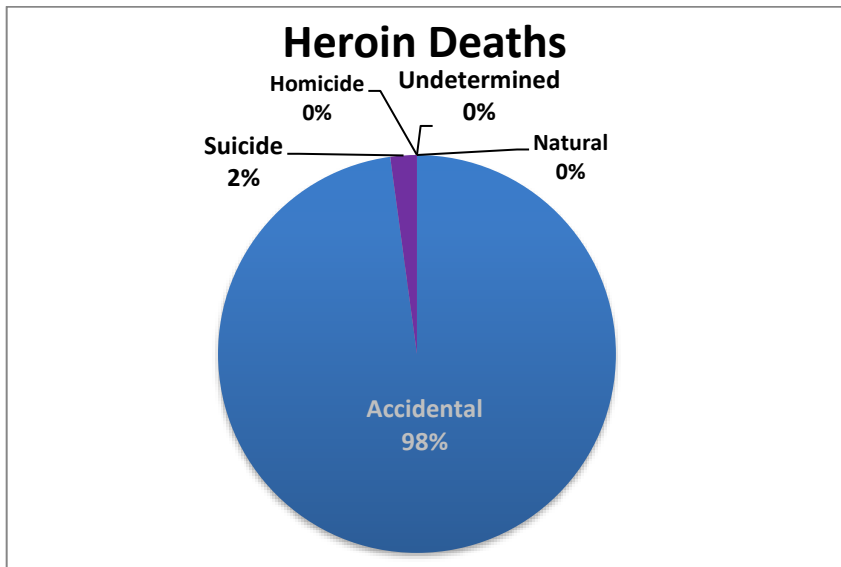
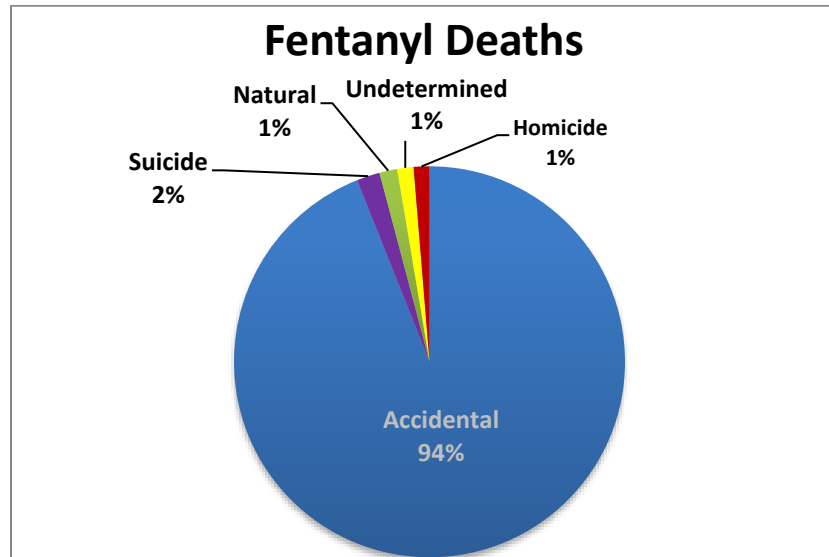
Methadone Deaths



Morphine Deaths

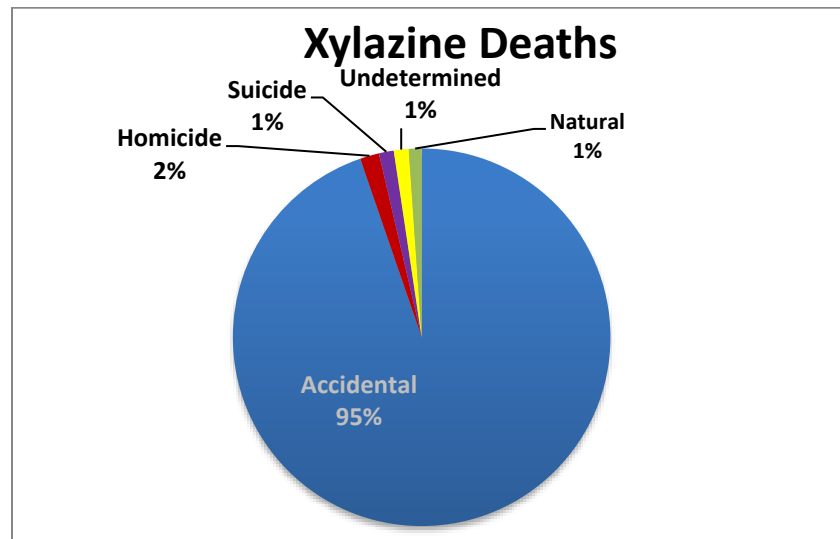
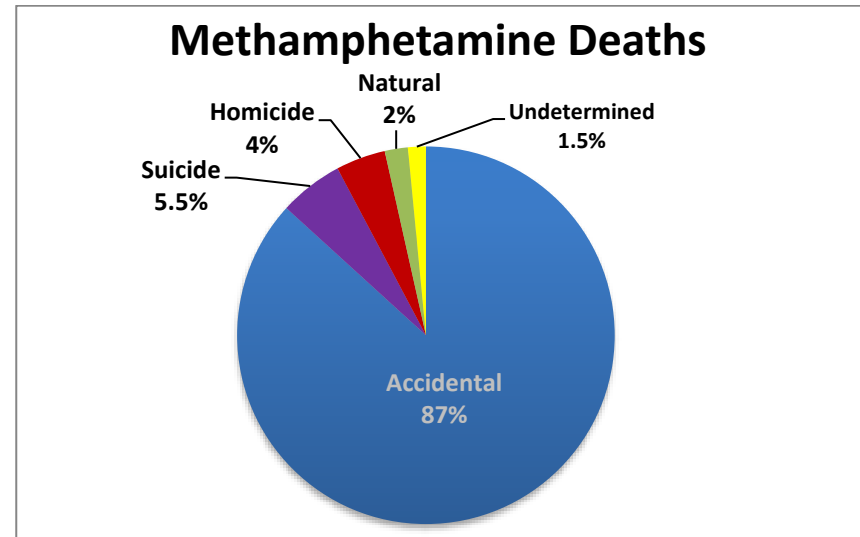
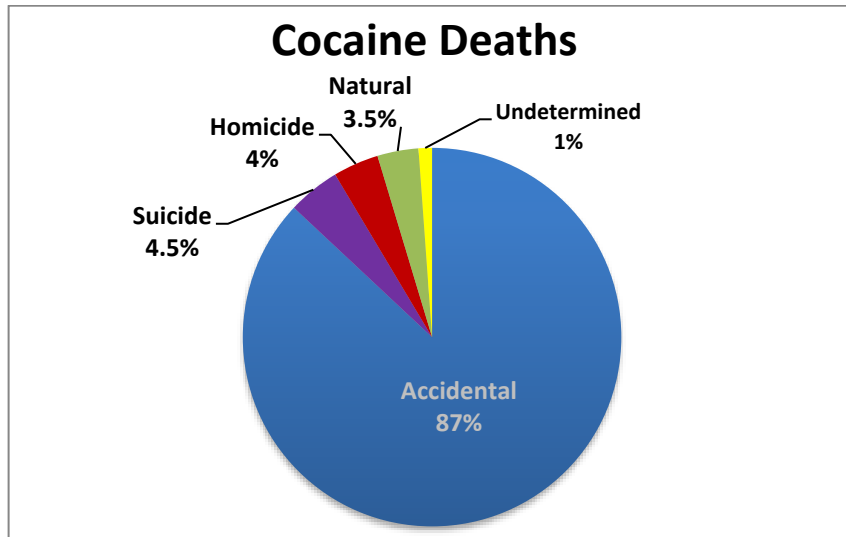


2023 Manner of Death for Reported Drug Occurrences



*Does not include 4-ANPP

2023 Manner of Death for Reported Drug Occurrences



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.”

Gabapentin - An anti-epileptic drug also called an anticonvulsant to treat neuropathic pain (nerve pain) caused by herpes virus.

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 is 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.

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.

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 man-made 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.