

# Drugs Identified in Deceased Persons by Florida Medical Examiners



2022 Annual Report

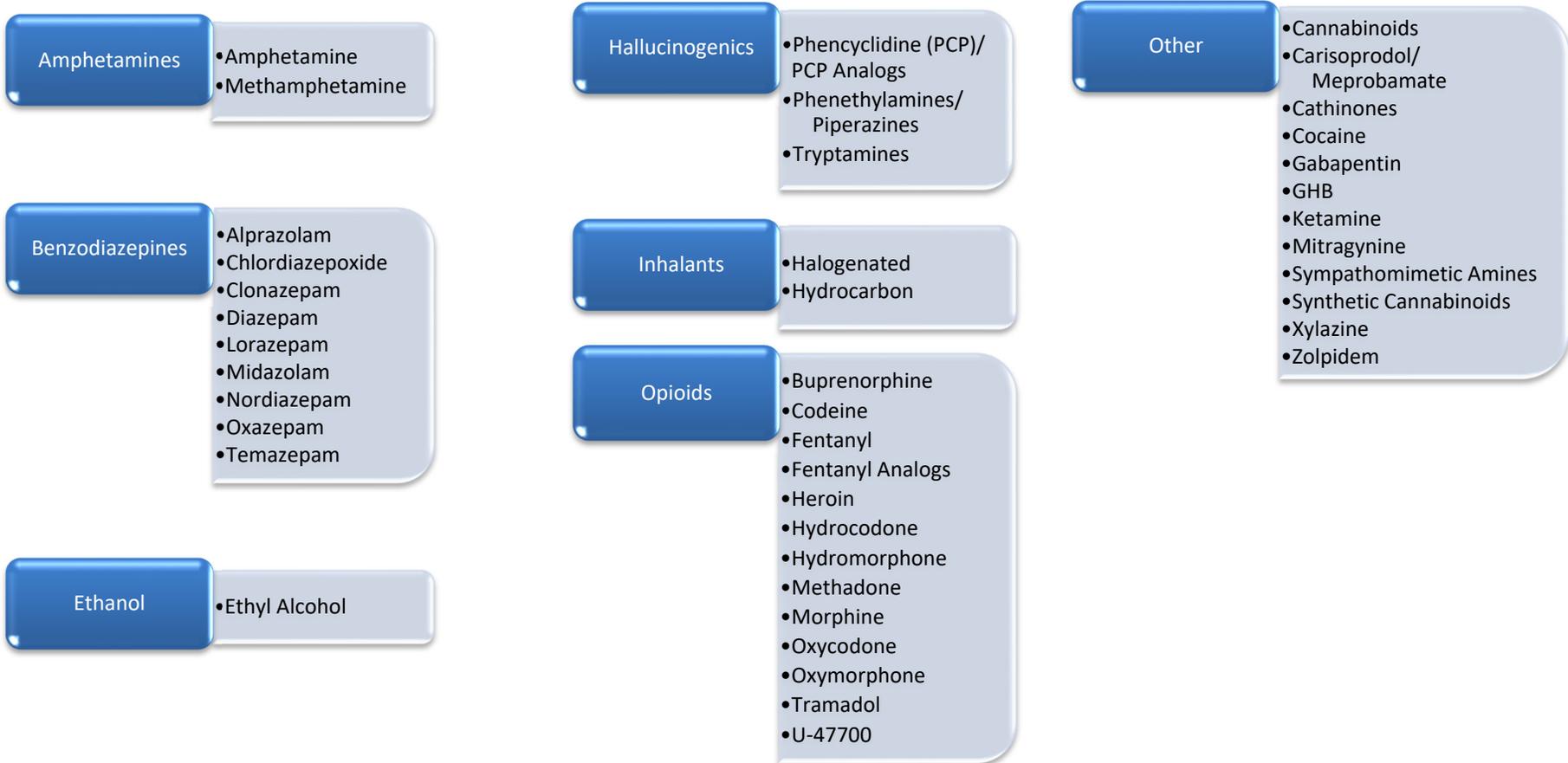
## Data Collection

The State of Florida's Bureau of Vital Statistics reported 242,595 deaths in Florida during 2022. Of the 35,429 deaths investigated by Florida's medical examiners, toxicology results determined that the drugs listed below were present at the time of death in 15,592 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 15,592 deaths included 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 2021 calendar year data unless otherwise noted.

- ✓ Total drug-related deaths decreased by 3 percent (546 less).
- ✓ 8,012 opioid-related deaths were reported, which is a 5 percent decrease (399 less). The opioids were identified as either the cause of death or merely present in the decedent.
- ✓ 6,157 opioid-caused deaths were reported, which is a 4 percent decrease (285 less).
- ✓ 9,230 (5 percent decrease, 448 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 87 percent of fentanyl occurrences were illicitly obtained.
- ✓ 6,234 (4.5 percent decrease, 293 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 49 percent of all drug occurrences in this report when ethyl alcohol is excluded.
- ✓ The most frequently occurring drugs found in decedents were fentanyl (6,230), ethyl alcohol (6,196), cocaine (3,930), benzodiazepines (3,738, including 1,238 alprazolam occurrences), cannabinoids (3,564), methamphetamine (2,918), amphetamine (2,672), oxycodone (1,014), fentanyl analogs (1,005), gabapentin (967) and morphine (861).
- ✓ The drugs that caused the most deaths were fentanyl (5,622), cocaine (2,598), methamphetamine (2,193), ethyl alcohol (1,364), benzodiazepines (900, including 528 alprazolam deaths), amphetamine (850) and fentanyl analogs (844). Fentanyl (90 percent), fentanyl analogs (84 percent), methamphetamine (75 percent), heroin (73 percent), cathinones (67 percent), cocaine (66 percent), methadone (59 percent), xylazine (57 percent) and mitragynine (56 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 51 percent (237 less) and deaths caused by heroin decreased by 55.5 percent (206 less).
- ✓ Occurrences of fentanyl decreased by 3 percent (187 less) and deaths caused by fentanyl decreased by 3 percent (169 less).
- ✓ Occurrences of fentanyl analogs\* increased by 40 percent (289 more) and deaths caused by fentanyl analogs\* increased by 42 percent (250 more).
- ✓ Occurrences of methadone decreased by 23 percent (90 less) and deaths caused by methadone decreased by 17.5 percent (37 less).
- ✓ Occurrences of hydrocodone decreased by 10 percent (50 less) and deaths caused by hydrocodone decreased by 6 percent (9 less).  
*\*These comparisons remove 4-ANPP from occurrences of fentanyl analogs.*

## Highlights (continued)

- ✓ Occurrences of oxycodone decreased by 9 percent (97 less) and deaths caused by oxycodone decreased by 14 percent (72 less).
- ✓ Occurrences of buprenorphine decreased by 12 percent (31 less) and deaths caused by buprenorphine decreased by 16 percent (9 less).
- ✓ Occurrences of cocaine decreased by 2 percent (85 less) and deaths caused by cocaine decreased by 3 percent (79 less).
- ✓ Occurrences of morphine decreased by 28 percent (340 less) and deaths caused by morphine decreased by 33.5 percent (165 less).
- ✓ Occurrences of mitragynine increased by 1 percent (3 more) and deaths caused by mitragynine decreased by 8 percent (15 less).
- ✓ Occurrences of gabapentin decreased by 11 percent (124 less) and deaths caused by gabapentin decreased by 0.5 percent (1 less).
- ✓ Alprazolam (Xanax) still dominated the category of benzodiazepines even though occurrences decreased by 21 percent (330 less).
- ✓ Occurrences of methamphetamine decreased by 0.5 percent (16 less) and deaths caused by methamphetamine increased by 4 percent (92 more). Occurrences of amphetamine increased by 1 percent (25 more) and deaths caused by amphetamine decreased by 2 percent (15 less). 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 28 percent (119 more) and deaths caused by cathinones increased by 34.5 percent (95 more). The majority of the cathinones reported were N, N-Dimethylpentylone.
- ✓ There were a total of 25 occurrences of Difluoroethane reported from January – December 2022.
- ✓ There was a total of 471 occurrences of Xylazine reported.
- ✓ *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

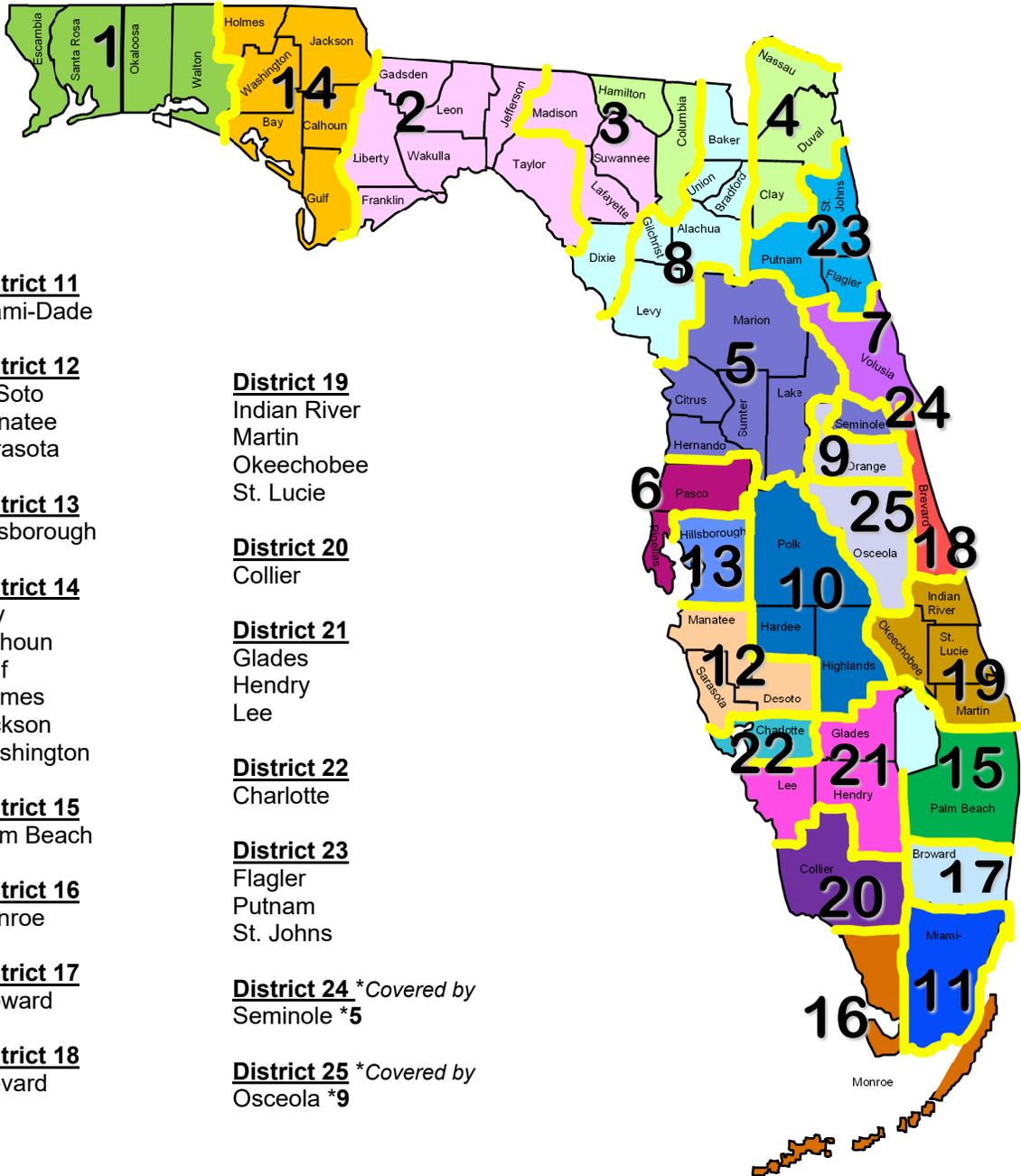
Flagler  
Putnam  
St. Johns

### District 24 \*Covered by

Seminole \*5

### District 25 \*Covered by

Osceola \*9



## Summary of Drug Occurrences in Decedents 2022

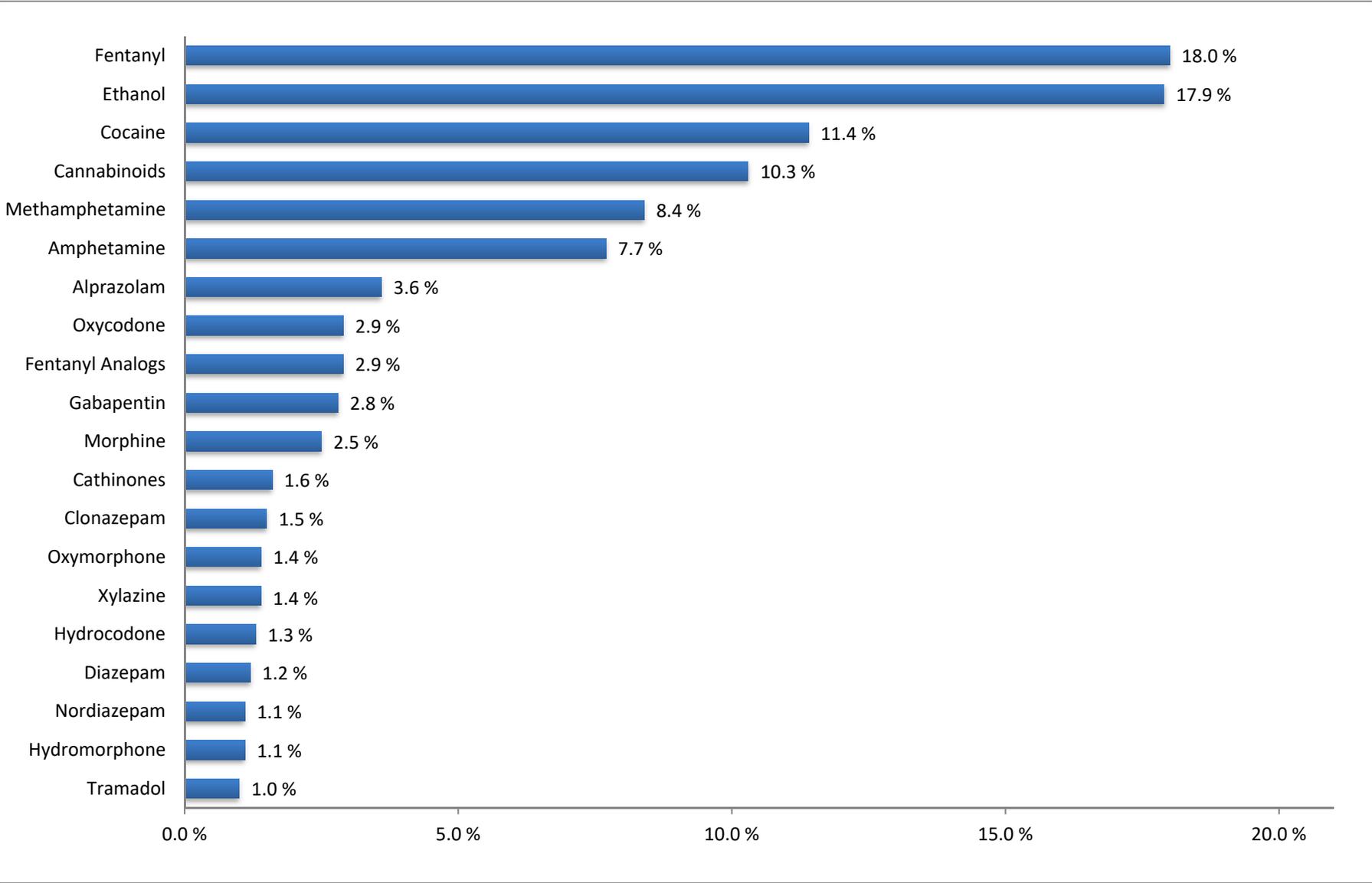
	DRUG PRESENT IN BODY	CAUSE	PRESENT	TOTAL OCCURRENCES
Amphetamines	Amphetamine	850	1,822	2,672
	Methamphetamine	2,193	725	2,918
Benzodiazepines	Alprazolam	528	710	1,238
	Chlordiazepoxide	20	50	70
	Clonazepam	101	415	516
	Diazepam	142	279	421
	Lorazepam	24	270	294
	Midazolam	3	270	273
	Nordiazepam	35	351	386
	Oxazepam	10	220	230
	Temazepam	37	273	310
Ethanol		1,364	4,832	6,196
Hallucinogenics	Phencyclidine (PCP)/PCP Analogs	0	0	0
	Phenethylamines/Piperazines	53	40	93
	Tryptamines	0	3	3
Inhalants	Halogenated	24	2	26
	Hydrocarbon	1	0	1

## Summary of Drug Occurrences in Decedents (continued)

	DRUG PRESENT IN BODY	CAUSE	PRESENT	TOTAL OCCURRENCES
Opioids	Buprenorphine	48	179	227
	Codeine	26	150	176
	Fentanyl	5,622	608	6,230
	Fentanyl Analogs	844	161	1,005
	Heroin	165	62	227
	Hydrocodone	133	314	447
	Hydromorphone	77	292	369
	Methadone	175	122	297
	Morphine	328	533	861
	Oxycodone	432	582	1,014
	Oxymorphone	55	419	474
	Tramadol	92	258	350
	U-47700	0	0	0
Other	Cannabinoids	41	3,523	3,564
	Carisoprodol/Meprobamate	13	19	32
	Cathinones	370	179	549
	Cocaine	2,598	1,332	3,930
	GHB	5	3	8
	Gabapentin	179	788	967
	Ketamine	29	185	214
	Mitragynine	172	136	308
	Sympathomimetic Amines	5	19	24
	Synthetic Cannabinoids	9	3	12
	Xylazine	268	203	471
	Zolpidem	39	76	115

*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.*

## Frequency of Occurrence of Drugs in Decedents<sup>1</sup> January – December 2022



<sup>1</sup>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 2021 to 2022

DRUG PRESENT IN BODY		2021	2022	PERCENTAGE CHANGE
Amphetamines	Amphetamine	2,647	2,672	0.9%
	Methamphetamine	2,934	2,918	-0.5%
Benzodiazepines	Alprazolam	1,568	1,238	-21.0%
	Chlordiazepoxide	65	70	7.7%
	Clonazepam	571	516	-9.6%
	Diazepam	422	421	-0.2%
	Lorazepam	319	294	-7.8%
	Midazolam	285	273	-4.2%
	Nordiazepam	404	386	-4.5%
	Oxazepam	240	230	-4.2%
	Temazepam	321	310	-3.4%
<b>Ethanol</b>		6,511	6,196	-4.8%
Hallucinogenics	Phencyclidine (PCP) / PCP Analogs	3	0	*
	Phenethylamines/Piperazines	115	93	-19.1%
	Tryptamines	12	3	*
Inhalants	Halogenated	45	26	-42.2%
	Hydrocarbon	1	1	0%

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

## Comparison of Drug Occurrences in Decedents (continued)

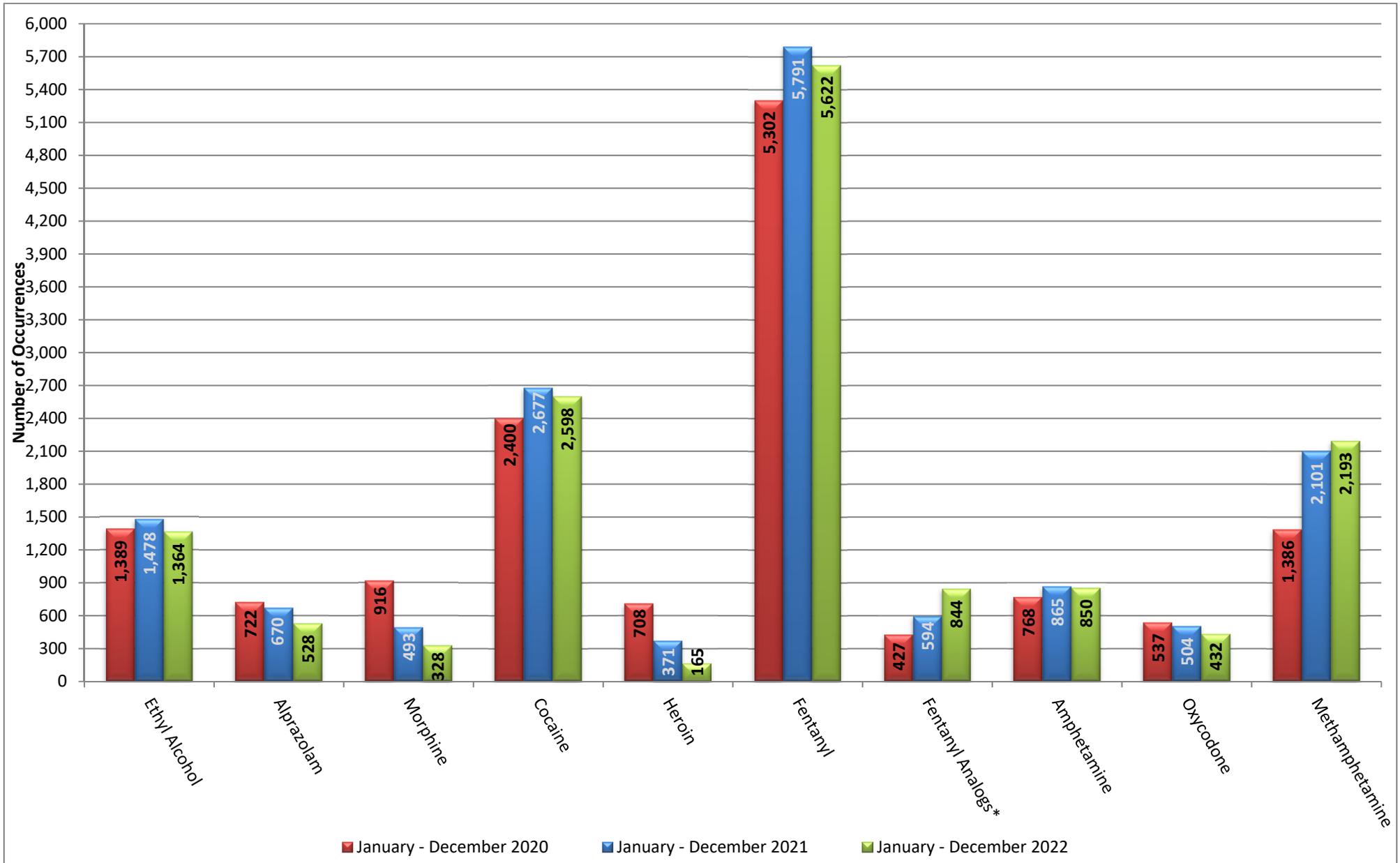
DRUG PRESENT IN BODY		2021	2022	PERCENTAGE CHANGE
<b>Opioids</b>	Buprenorphine	258	227	-12.0%
	Codeine	280	176	-37.1%
	Fentanyl	6,417	6,230	-2.9%
	Fentanyl Analogs	716	1,005	40.4%
	Heroin	464	227	-51.1%
	Hydrocodone	497	447	-10.1%
	Hydromorphone	460	369	-19.8%
	Methadone	387	297	-23.3%
	Morphine	1,201	861	-28.3%
	Oxycodone	1,111	1,014	-8.7%
	Oxymorphone	562	474	-15.7%
	Tramadol	541	350	-35.3%
	U-47700	2	0	*
	<b>Other</b>	Cannabinoids	3,845	3,564
Carisoprodol/Meprobamate		43	32	-25.6%
Cathinones		430	549	27.7%
Cocaine		4,015	3,930	-2.1%
GHB		21	8	-61.9%
Gabapentin		1,091	967	-11.4%
Ketamine		216	214	-0.9%
Mitragynine		305	308	1.0%
Sympathomimetic Amines		25	24	-4.0%
Synthetic Cannabinoids		24	12	-50.0%
Xylazine		N/A	471	N/A
Zolpidem		161	115	-28.6%

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

N/A – Drug was not officially tracked during the previous reporting year.

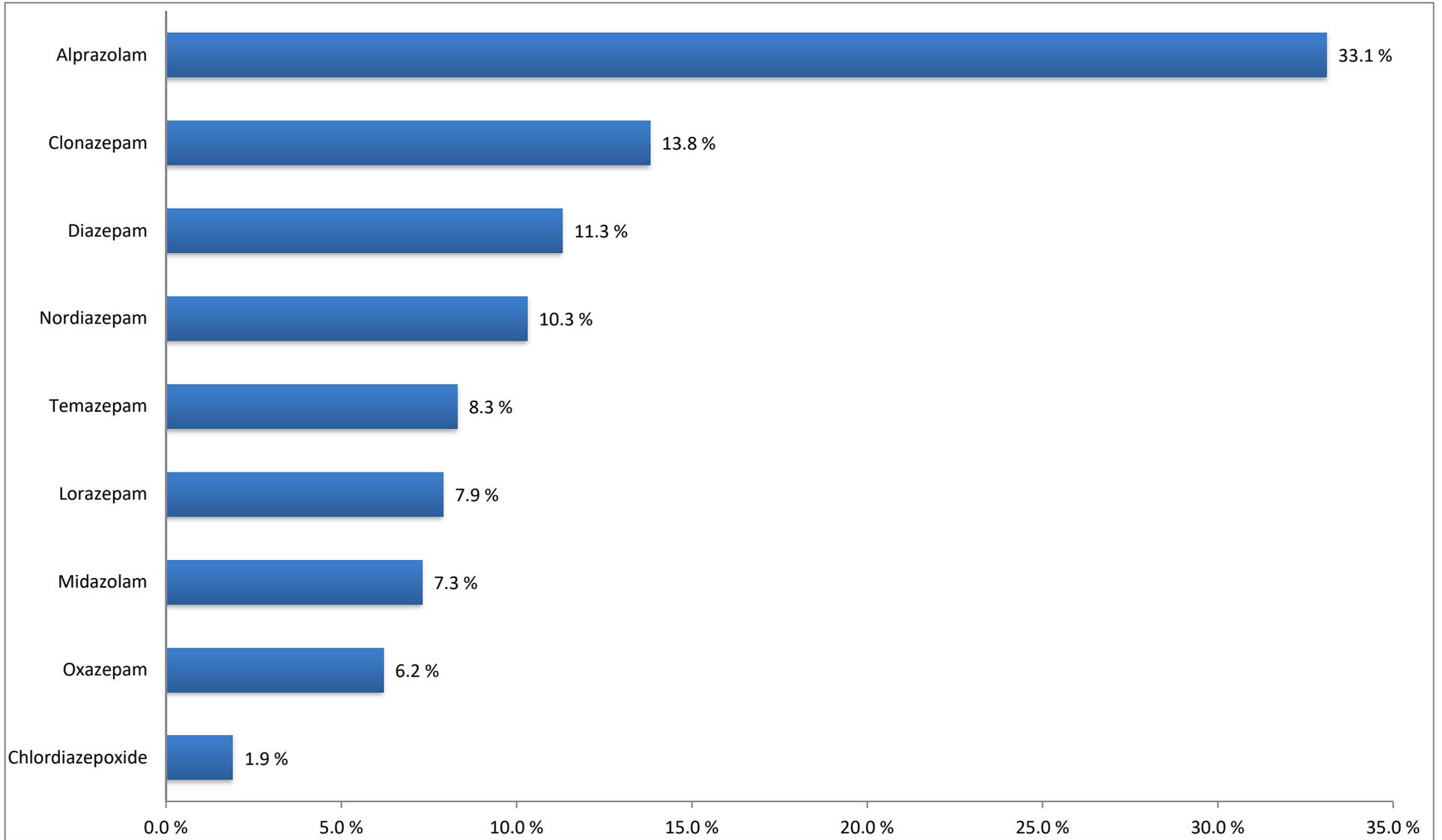
Note: Many deaths were found to have several drugs contributing to the death; therefore, the count of specific drugs listed is greater than the number of deaths.

## Comparison of Drug Caused Deaths 2020 to 2022



\* Removed 4-ANPP

## Frequency of Occurrence of Benzodiazepines January – December 2022



*Note: 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 2022

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
<b>Statewide Totals</b>	

Total Deaths with Alprazolam		
Total	Cause	Present
31	21	10
6	5	1
4	2	2
83	28	55
49	17	32
174	114	60
43	21	22
7	2	5
47	15	32
67	16	51
137	33	104
40	17	23
105	65	40
17	2	15
143	22	121
8	6	2
105	68	37
13	4	9
21	4	17
31	11	20
54	36	18
13	6	7
16	4	12
15	8	7
9	1	8
<b>1,238</b>	<b>528</b>	<b>710</b>

Deaths with Alprazolam Only		
Total	Cause	Present
2	0	2
0	0	0
0	0	0
2	0	2
5	0	5
9	2	7
4	1	3
1	0	1
2	1	1
3	0	3
11	1	10
6	0	6
7	0	7
3	0	3
12	0	12
1	1	0
7	1	6
1	0	1
4	0	4
0	0	0
3	0	3
2	0	2
1	0	1
0	0	0
2	0	2
<b>88</b>	<b>7</b>	<b>81</b>

Deaths with Alprazolam in Combination with Other Drugs		
Total	Cause	Present
29	21	8
6	5	1
4	2	2
81	28	53
44	17	27
165	112	53
39	20	19
6	2	4
45	14	31
64	16	48
126	32	94
34	17	17
98	65	33
14	2	12
131	22	109
7	5	2
98	67	31
12	4	8
17	4	13
31	11	20
51	36	15
11	6	5
15	4	11
15	8	7
7	1	6
<b>1,150</b>	<b>521</b>	<b>629</b>

## Alprazolam Deaths by Age

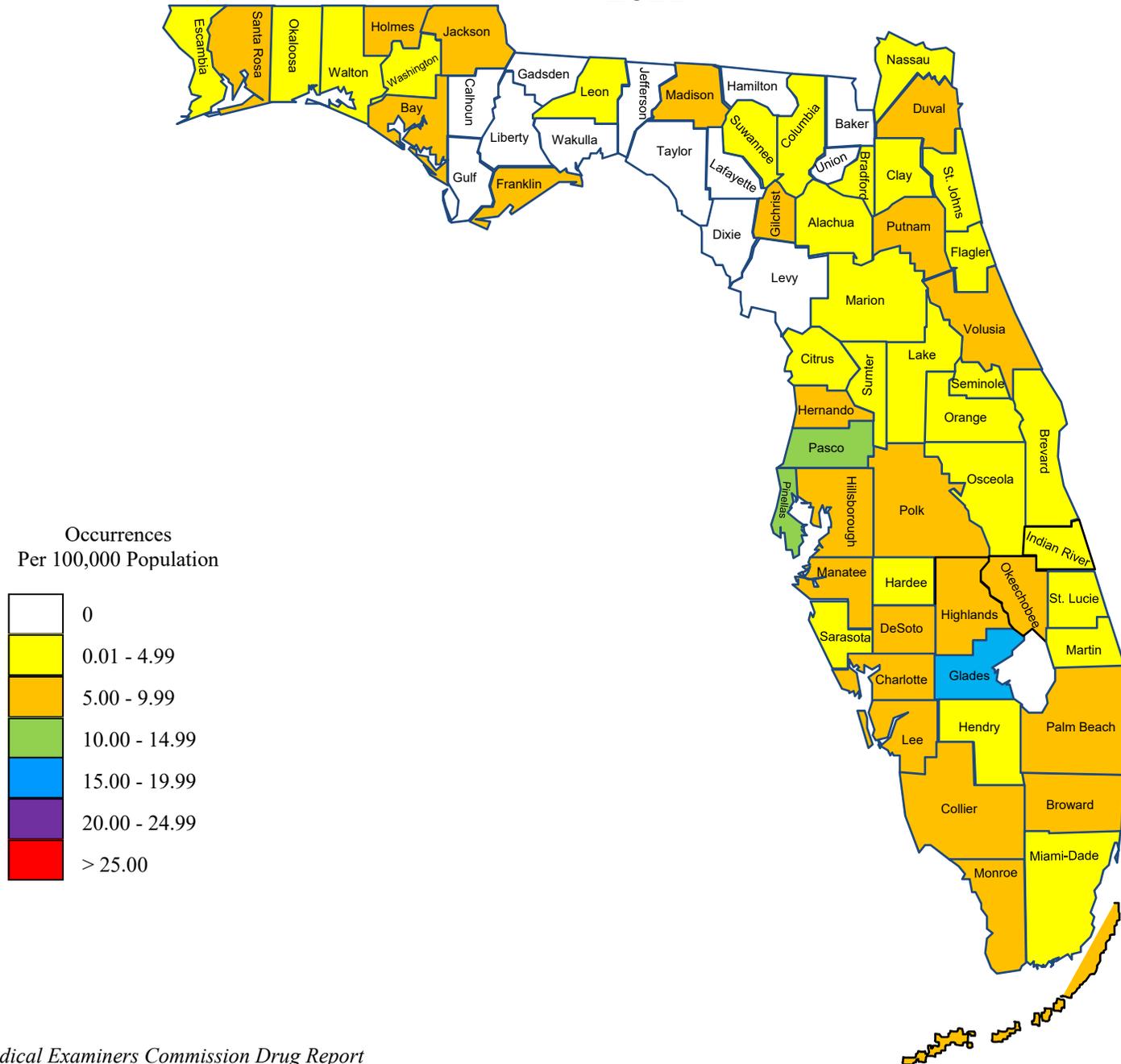
January – December 2022

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	31
2	Tallahassee	6
3	Live Oak	4
4	Jacksonville	83
5	Leesburg	49
6	St. Petersburg	174
7	Daytona Beach	43
8	Gainesville	7
9	Orlando	47
10	Lakeland	67
11	Miami	137
12	Sarasota	40
13	Tampa	105
14	Panama City	17
15	West Palm Beach	143
16	Florida Keys	8
17	Ft. Lauderdale	105
18	Melbourne	13
19	Ft. Pierce	21
20	Naples	31
21	Ft. Myers	54
22	Port Charlotte	13
23	St. Augustine	16
24	Sanford	15
25	Kissimmee	9
<b>Statewide Totals</b>		<b>1,238</b>

Alprazolam Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
21	0	2	6	9	4
5	0	0	2	1	2
2	0	0	1	0	1
28	0	2	8	8	10
17	0	2	5	3	7
114	0	1	18	41	54
21	0	2	5	7	7
2	0	1	1	0	0
15	1	2	2	7	3
16	0	0	3	9	4
33	0	1	13	10	9
17	0	1	5	6	5
65	0	5	20	27	13
2	0	0	1	1	0
22	0	0	4	8	10
6	0	0	3	3	0
68	0	3	13	24	28
4	0	0	1	0	3
4	0	0	1	2	1
11	0	2	3	2	4
36	0	2	9	11	14
6	0	0	0	2	4
4	0	1	0	2	1
8	0	1	5	1	1
1	0	0	0	1	0
<b>528</b>	<b>1</b>	<b>28</b>	<b>129</b>	<b>185</b>	<b>185</b>

Alprazolam Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
10	0	1	0	3	6
1	0	0	0	0	1
2	0	0	0	2	0
55	0	4	11	22	18
32	0	1	5	9	17
60	0	1	13	18	28
22	0	0	2	6	14
5	0	1	0	4	0
32	0	1	6	16	9
51	2	4	12	13	20
104	1	9	18	27	49
23	0	2	3	2	16
40	0	5	5	7	23
15	0	0	3	2	10
121	0	7	17	43	54
2	0	0	0	0	2
37	0	2	3	8	24
9	0	1	2	4	2
17	0	1	2	2	12
20	0	2	5	9	4
18	0	0	2	6	10
7	0	0	1	3	3
12	0	1	4	5	2
7	0	0	0	5	2
8	0	1	1	3	3
<b>710</b>	<b>3</b>	<b>44</b>	<b>115</b>	<b>219</b>	<b>329</b>

# Alprazolam Deaths by County 2022





## Clonazepam Deaths by Age

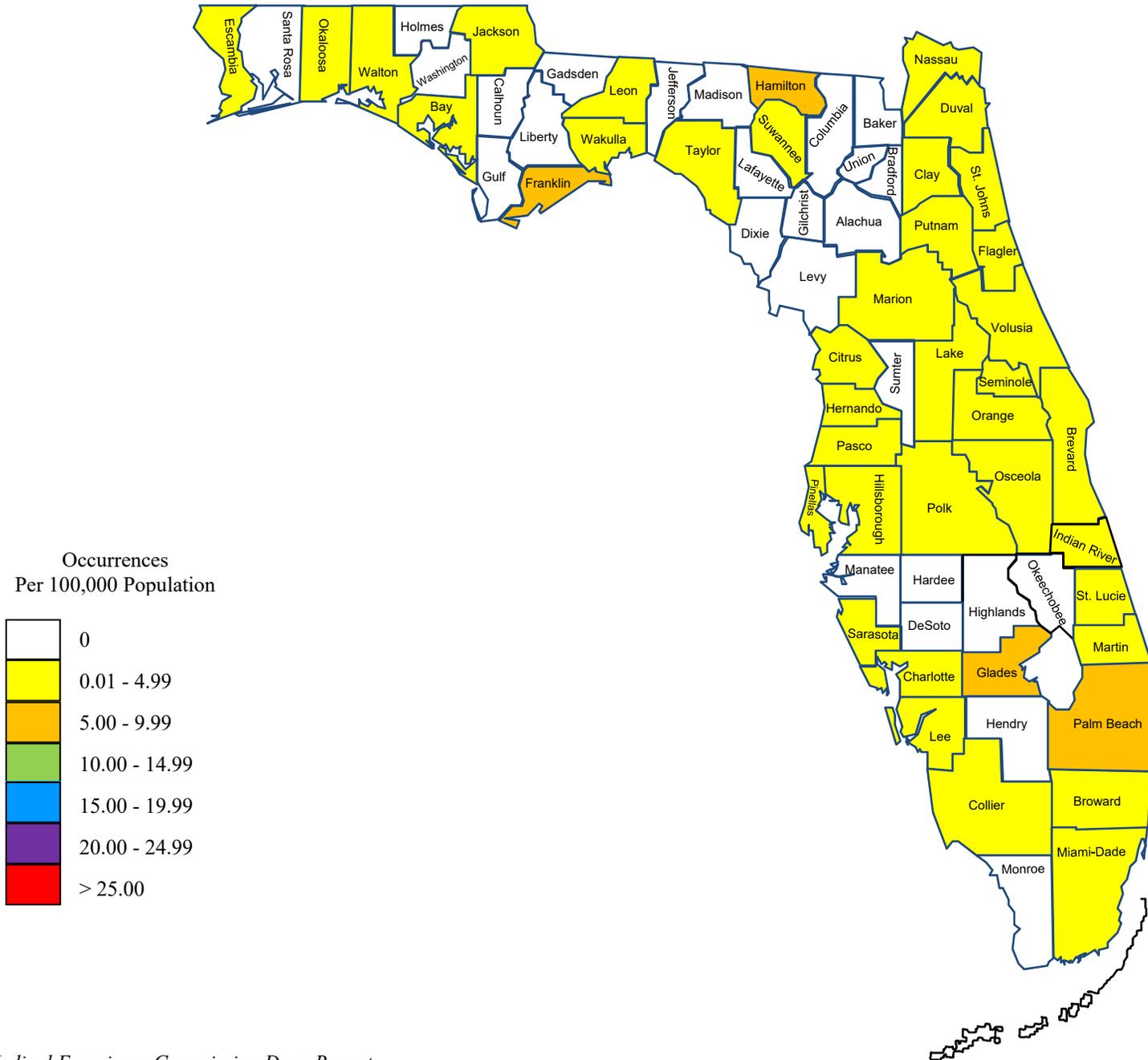
January – December 2022

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	13
2	Tallahassee	13
3	Live Oak	2
4	Jacksonville	42
5	Leesburg	14
6	St. Petersburg	76
7	Daytona Beach	14
8	Gainesville	0
9	Orlando	42
10	Lakeland	1
11	Miami	53
12	Sarasota	1
13	Tampa	1
14	Panama City	11
15	West Palm Beach	88
16	Florida Keys	0
17	Ft. Lauderdale	45
18	Melbourne	11
19	Ft. Pierce	26
20	Naples	2
21	Ft. Myers	29
22	Port Charlotte	9
23	St. Augustine	6
24	Sanford	3
25	Kissimmee	14
<b>Statewide Totals</b>		<b>516</b>

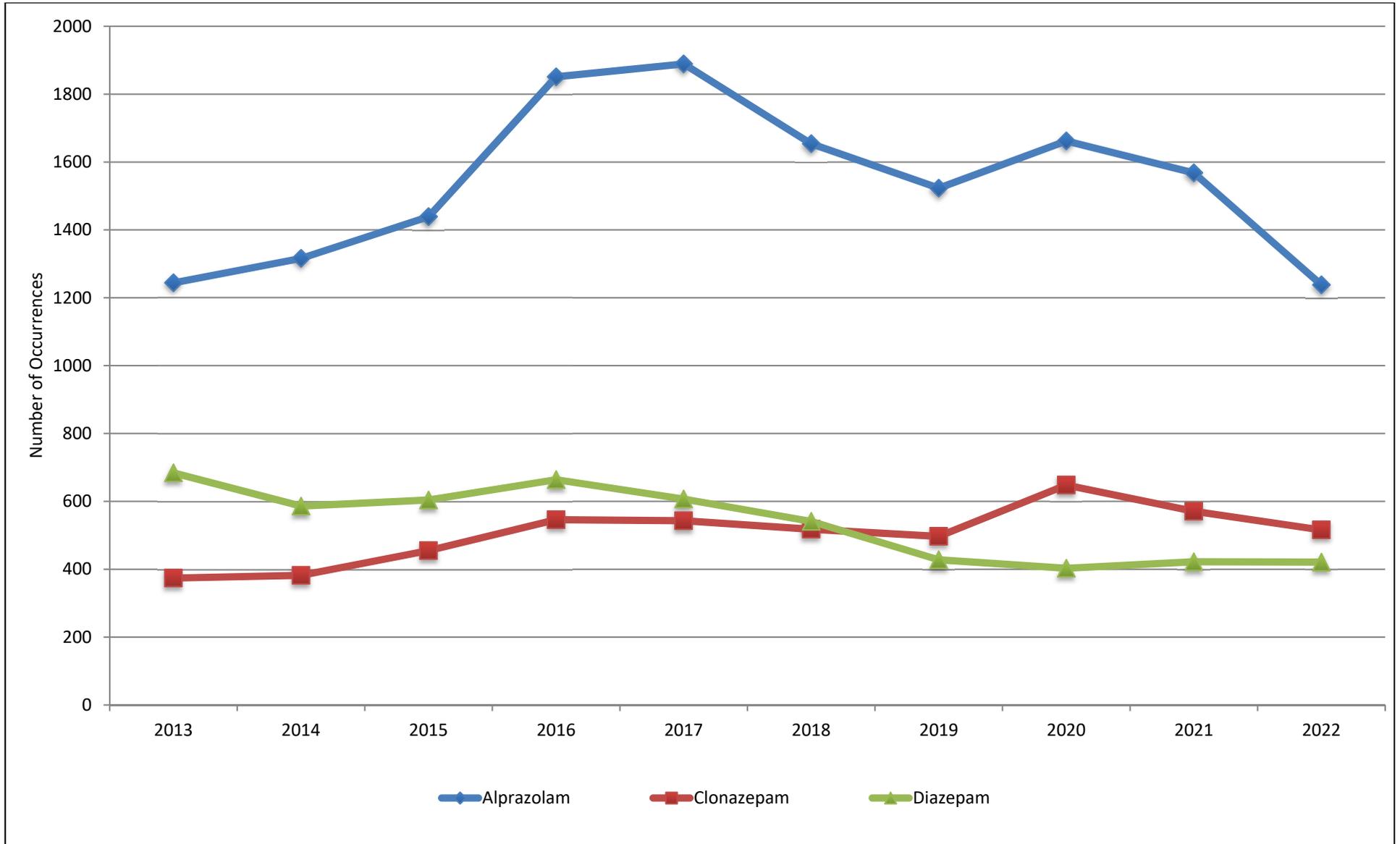
Clonazepam Caused Death						
Age of Decedent						
Total	< 18	18-25	26-34	35-50	>50	
6	0	2	1	2	1	
1	0	0	0	1	0	
0	0	0	0	0	0	
7	0	0	1	4	2	
3	0	0	1	0	2	
21	0	0	4	11	6	
2	0	1	0	0	1	
0	0	0	0	0	0	
3	0	0	0	2	1	
1	0	0	0	0	1	
6	0	1	1	1	3	
1	0	0	0	1	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
4	0	0	0	3	1	
0	0	0	0	0	0	
24	0	0	9	7	8	
5	0	0	0	3	2	
2	0	0	0	0	2	
1	0	0	0	1	0	
10	0	1	1	4	4	
2	0	0	1	0	1	
0	0	0	0	0	0	
2	0	1	1	0	0	
0	0	0	0	0	0	
<b>101</b>	<b>0</b>	<b>6</b>	<b>20</b>	<b>40</b>	<b>35</b>	

Clonazepam Present at Death						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
7	0	0	3	2	2	
12	0	1	2	3	6	
2	0	0	0	1	1	
35	0	2	8	11	14	
11	0	0	1	6	4	
55	0	2	12	19	22	
12	0	0	2	6	4	
0	0	0	0	0	0	
39	1	7	7	10	14	
0	0	0	0	0	0	
47	0	1	12	9	25	
0	0	0	0	0	0	
1	0	0	0	0	1	
11	0	0	3	4	4	
84	2	6	19	25	32	
0	0	0	0	0	0	
21	0	2	4	5	10	
6	0	0	1	1	4	
24	0	1	5	5	13	
1	0	0	0	1	0	
19	0	1	2	10	6	
7	0	0	0	5	2	
6	0	0	2	2	2	
1	0	0	0	1	0	
14	0	2	1	5	6	
<b>415</b>	<b>3</b>	<b>25</b>	<b>84</b>	<b>131</b>	<b>172</b>	

# Clonazepam Deaths by County 2022



# Historical Overview of Alprazolam, Clonazepam and Diazepam Occurrences (Present and Cause) 2013 to 2022



## Oxycodone Deaths

January – December 2022

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
<b>Statewide Totals</b>	

Total Deaths with Oxycodone		
Total	Cause	Present
48	22	26
15	5	10
12	2	10
71	28	43
62	25	37
130	75	55
34	19	15
15	4	11
44	15	29
50	13	37
68	24	44
32	12	20
69	48	21
12	3	9
102	34	68
4	4	0
78	39	39
33	11	22
26	11	15
21	5	16
43	17	26
10	3	7
15	4	11
11	6	5
9	3	6
<b>1,014</b>	<b>432</b>	<b>582</b>

Deaths with Oxycodone Only		
Total	Cause	Present
4	0	4
1	0	1
0	0	0
2	0	2
10	1	9
6	1	5
2	0	2
3	0	3
4	0	4
4	2	2
4	0	4
2	0	2
4	0	4
2	1	1
1	0	1
0	0	0
3	1	2
4	0	4
1	0	1
0	0	0
4	0	4
0	0	0
0	0	0
1	0	1
4	1	3
<b>66</b>	<b>7</b>	<b>59</b>

Deaths with Oxycodone in Combination with Other Drugs		
Total	Cause	Present
44	22	22
14	5	9
12	2	10
69	28	41
52	24	28
124	74	50
32	19	13
12	4	8
40	15	25
46	11	35
64	24	40
30	12	18
65	48	17
10	2	8
101	34	67
4	4	0
75	38	37
29	11	18
25	11	14
21	5	16
39	17	22
10	3	7
15	4	11
10	6	4
5	2	3
<b>948</b>	<b>425</b>	<b>523</b>

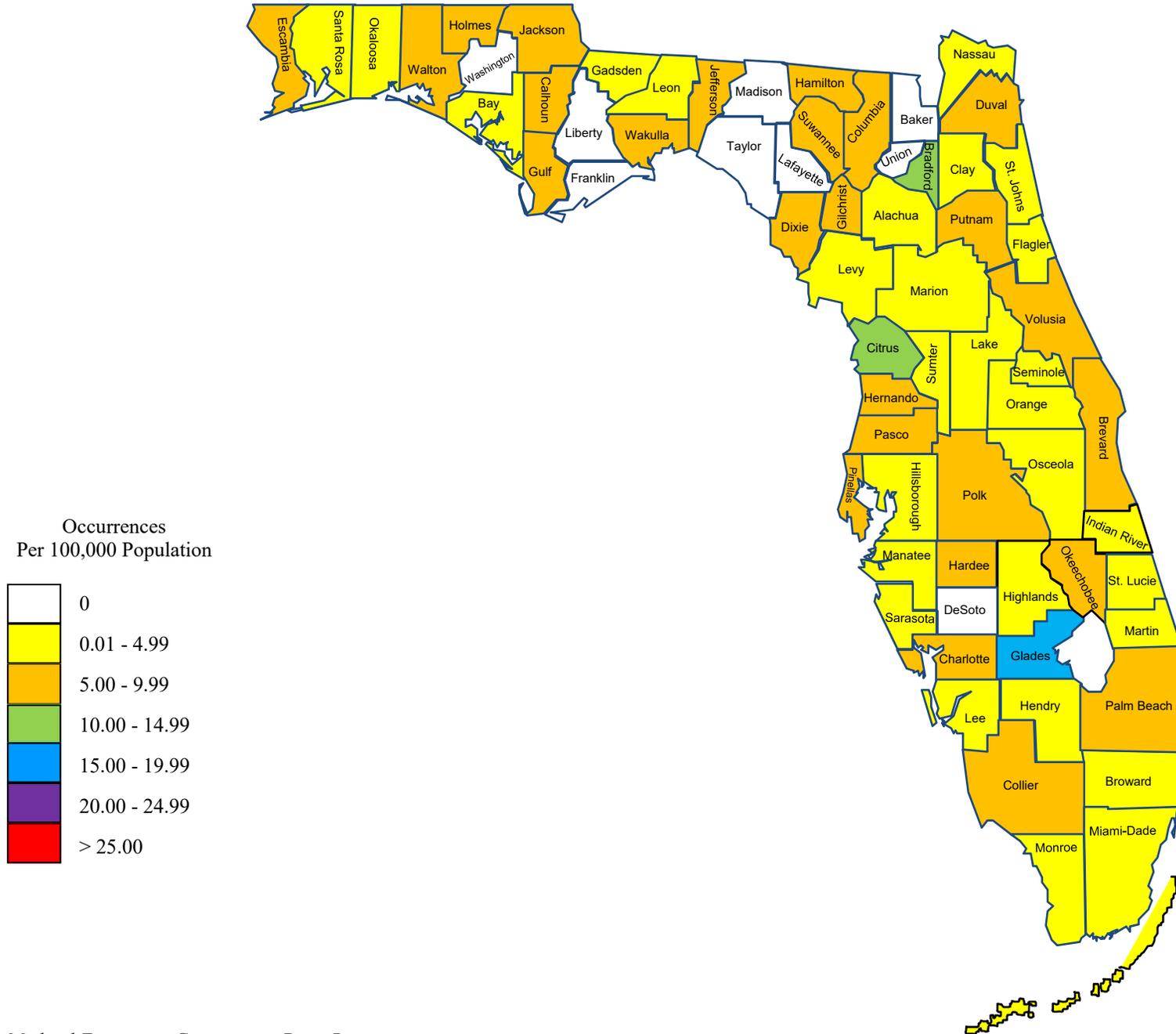
## Oxycodone Deaths by Age January – December 2022

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	48
2	Tallahassee	15
3	Live Oak	12
4	Jacksonville	71
5	Leesburg	62
6	St. Petersburg	130
7	Daytona Beach	34
8	Gainesville	15
9	Orlando	44
10	Lakeland	50
11	Miami	68
12	Sarasota	32
13	Tampa	69
14	Panama City	12
15	West Palm Beach	102
16	Florida Keys	4
17	Ft. Lauderdale	78
18	Melbourne	33
19	Ft. Pierce	26
20	Naples	21
21	Ft. Myers	43
22	Port Charlotte	10
23	St. Augustine	15
24	Sanford	11
25	Kissimmee	9
<b>Statewide Totals</b>		<b>1,014</b>

Oxycodone Caused Death					
Age of Decedent					
Total	< 18	18-25	26-34	35-50	>50
22	0	0	4	8	10
5	0	0	0	1	4
2	0	0	0	1	1
28	0	0	3	11	14
25	0	2	4	7	12
75	0	1	7	25	42
19	0	2	2	8	7
4	0	0	1	1	2
15	0	1	5	7	2
13	0	0	1	8	4
24	0	0	13	5	6
12	0	0	0	8	4
48	0	4	4	14	26
3	0	0	0	3	0
34	0	1	7	10	16
4	0	0	1	1	2
39	0	1	7	9	22
11	0	1	1	4	5
11	0	1	0	3	7
5	0	0	0	3	2
17	0	2	5	3	7
3	0	0	0	0	3
4	0	0	0	1	3
6	0	0	1	0	5
3	0	0	0	1	2
<b>432</b>	<b>0</b>	<b>16</b>	<b>66</b>	<b>142</b>	<b>208</b>

Oxycodone Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
26	0	3	0	5	18
10	0	1	1	2	6
10	0	0	1	3	6
43	2	4	4	16	17
37	0	1	0	10	26
55	0	2	7	20	26
15	0	1	0	2	12
11	0	0	0	5	6
29	0	1	3	7	18
37	0	4	6	10	17
44	0	7	11	9	17
20	0	1	6	2	11
21	0	0	1	6	14
9	0	0	0	3	6
68	0	4	7	20	37
0	0	0	0	0	0
39	1	4	5	7	22
22	1	1	4	5	11
15	0	0	2	3	10
16	0	0	2	3	11
26	0	0	1	6	19
7	0	0	1	1	5
11	0	0	0	3	8
5	0	0	2	2	1
6	0	1	0	0	5
<b>582</b>	<b>4</b>	<b>35</b>	<b>64</b>	<b>150</b>	<b>329</b>

# Oxycodone Deaths by County 2022



## Hydrocodone Deaths January – December 2022

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
<b>Statewide Totals</b>	

Total Deaths with Hydrocodone		
Total	Cause	Present
55	19	36
19	7	12
9	1	8
36	11	25
24	8	16
50	20	30
23	8	15
5	1	4
25	6	19
17	4	13
12	4	8
14	4	10
26	10	16
25	6	19
22	0	22
2	0	2
13	6	7
10	3	7
14	4	10
4	1	3
11	6	5
12	3	9
8	0	8
5	1	4
6	0	6
<b>447</b>	<b>133</b>	<b>314</b>

Deaths with Hydrocodone Only		
Total	Cause	Present
14	0	14
0	0	0
1	0	1
2	0	2
4	0	4
0	0	0
4	0	4
1	0	1
7	0	7
2	1	1
0	0	0
5	2	3
4	1	3
0	0	0
1	0	1
0	0	0
1	0	1
4	0	4
5	1	4
0	0	0
2	1	1
1	0	1
1	0	1
2	0	2
0	0	0
<b>61</b>	<b>6</b>	<b>55</b>

Deaths with Hydrocodone in Combination with Other Drugs		
Total	Cause	Present
41	19	22
19	7	12
8	1	7
34	11	23
20	8	12
50	20	30
19	8	11
4	1	3
18	6	12
15	3	12
12	4	8
9	2	7
22	9	13
25	6	19
21	0	21
2	0	2
12	6	6
6	3	3
9	3	6
4	1	3
9	5	4
11	3	8
7	0	7
3	1	2
6	0	6
<b>386</b>	<b>127</b>	<b>259</b>

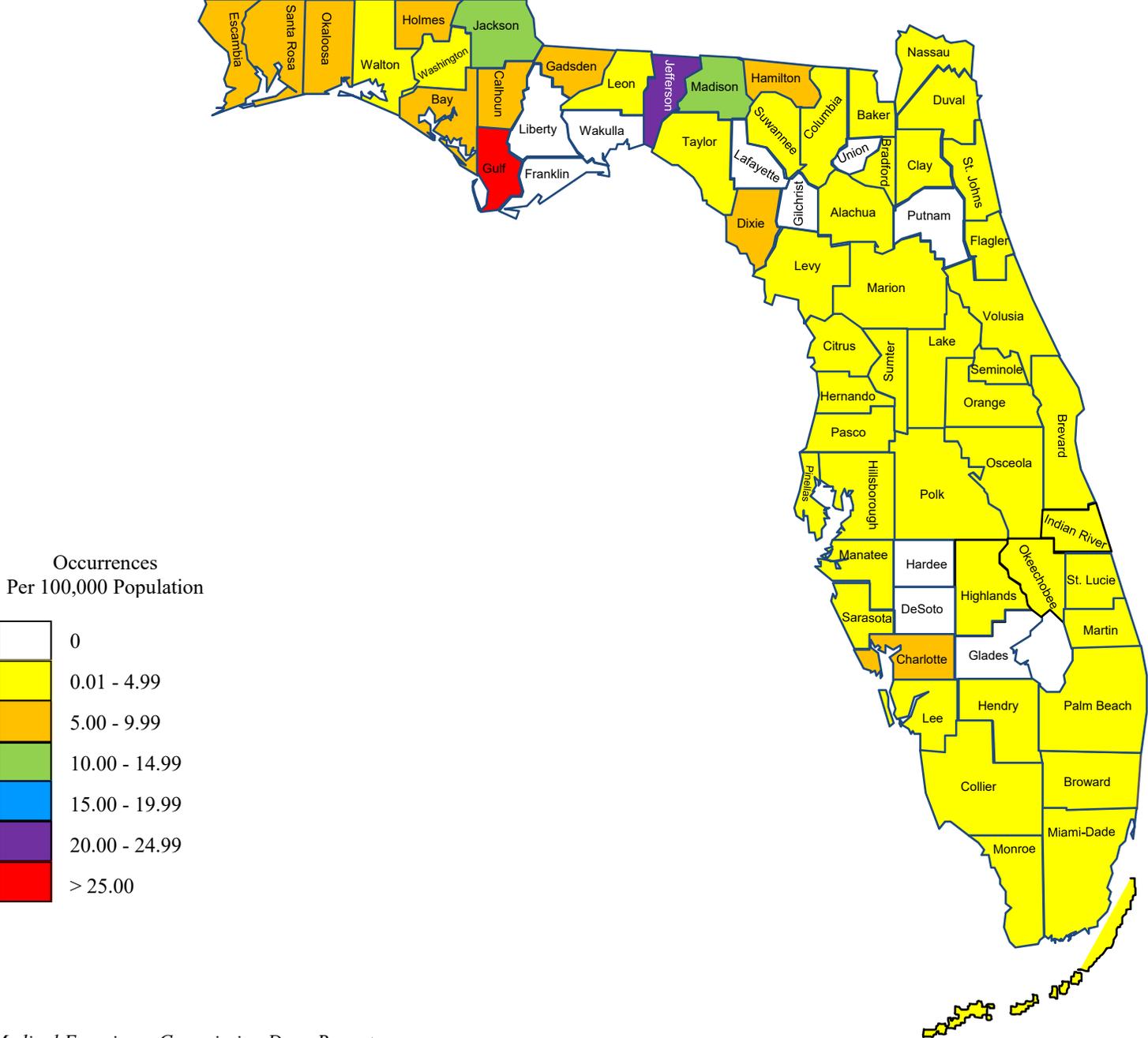
## Hydrocodone Deaths by Age January – December 2022

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	55
2	Tallahassee	19
3	Live Oak	9
4	Jacksonville	36
5	Leesburg	24
6	St. Petersburg	50
7	Daytona Beach	23
8	Gainesville	5
9	Orlando	25
10	Lakeland	17
11	Miami	12
12	Sarasota	14
13	Tampa	26
14	Panama City	25
15	West Palm Beach	22
16	Florida Keys	2
17	Ft. Lauderdale	13
18	Melbourne	10
19	Ft. Pierce	14
20	Naples	4
21	Ft. Myers	11
22	Port Charlotte	12
23	St. Augustine	8
24	Sanford	5
25	Kissimmee	6
<b>Statewide Totals</b>		<b>447</b>

Hydrocodone Caused Death					
Age of Decedent					
Total	< 18	18-25	26-34	35-50	>50
19	0	0	1	12	6
7	0	0	0	1	6
1	0	0	0	0	1
11	0	0	2	3	6
8	0	0	1	3	4
20	0	1	5	4	10
8	0	0	0	3	5
1	0	0	0	0	1
6	0	0	1	1	4
4	0	0	0	2	2
4	0	0	1	1	2
4	0	0	0	3	1
10	0	0	0	3	7
6	0	0	0	4	2
0	0	0	0	0	0
0	0	0	0	0	0
6	0	0	2	0	4
3	0	0	0	1	2
4	0	0	1	0	3
1	0	0	0	0	1
6	0	0	0	1	5
3	0	0	0	0	3
0	0	0	0	0	0
1	0	0	0	0	1
0	0	0	0	0	0
<b>133</b>	<b>0</b>	<b>1</b>	<b>14</b>	<b>42</b>	<b>76</b>

Hydrocodone Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
36	0	1	2	10	23
12	0	0	0	3	9
8	0	0	1	1	6
25	1	0	4	9	11
16	0	0	1	1	14
30	0	0	4	6	20
15	0	0	0	3	12
4	0	0	0	1	3
19	0	0	1	3	15
13	0	0	1	6	6
8	0	2	1	1	4
10	0	0	2	2	6
16	0	0	1	6	9
19	0	0	1	3	15
22	0	0	2	5	15
2	0	0	0	1	1
7	0	0	0	1	6
7	0	0	0	1	6
10	0	0	1	1	8
3	0	0	1	1	1
5	0	0	0	0	5
9	0	0	0	1	8
8	0	1	1	1	5
4	0	0	1	1	2
6	0	0	0	2	4
<b>314</b>	<b>1</b>	<b>4</b>	<b>25</b>	<b>70</b>	<b>214</b>

# Hydrocodone Deaths by County 2022



## Methadone Deaths

January – December 2022

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
<b>Statewide Totals</b>	

Total Deaths with Methadone		
Total	Cause	Present
15	11	4
6	2	4
2	0	2
33	19	14
19	16	3
44	33	11
11	5	6
4	2	2
14	8	6
9	5	4
8	2	6
19	10	9
24	18	6
1	1	0
28	11	17
1	0	1
16	12	4
7	2	5
8	3	5
9	3	6
3	2	1
3	2	1
4	2	2
5	5	0
4	1	3
<b>297</b>	<b>175</b>	<b>122</b>

Deaths with Methadone Only		
Total	Cause	Present
4	3	1
2	0	2
1	0	1
8	6	2
3	3	0
4	1	3
0	0	0
0	0	0
1	1	0
2	1	1
0	0	0
5	3	2
3	1	2
0	0	0
1	0	1
0	0	0
1	1	0
0	0	0
0	0	0
2	0	2
1	0	1
0	0	0
2	1	1
0	0	0
1	1	0
<b>41</b>	<b>22</b>	<b>19</b>

Deaths with Methadone in Combination with Other Drugs		
Total	Cause	Present
11	8	3
4	2	2
1	0	1
25	13	12
16	13	3
40	32	8
11	5	6
4	2	2
13	7	6
7	4	3
8	2	6
14	7	7
21	17	4
1	1	0
27	11	16
1	0	1
15	11	4
7	2	5
8	3	5
7	3	4
2	2	0
3	2	1
2	1	1
5	5	0
3	0	3
<b>256</b>	<b>153</b>	<b>103</b>

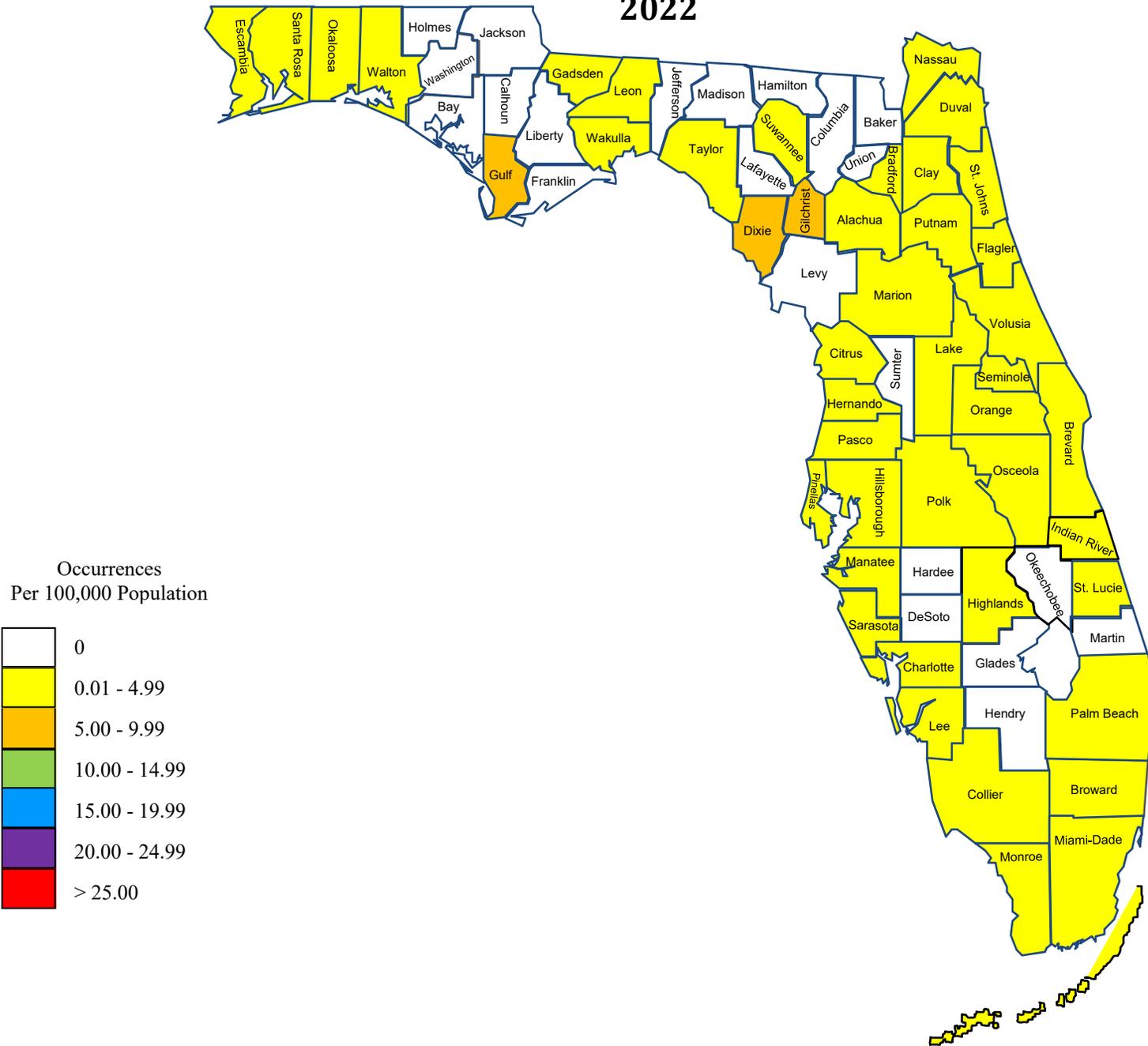
## Methadone Deaths by Age January – December 2022

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	15
2	Tallahassee	6
3	Live Oak	2
4	Jacksonville	33
5	Leesburg	19
6	St. Petersburg	44
7	Daytona Beach	11
8	Gainesville	4
9	Orlando	14
10	Lakeland	9
11	Miami	8
12	Sarasota	19
13	Tampa	24
14	Panama City	1
15	West Palm Beach	28
16	Florida Keys	1
17	Ft. Lauderdale	16
18	Melbourne	7
19	Ft. Pierce	8
20	Naples	9
21	Ft. Myers	3
22	Port Charlotte	3
23	St. Augustine	4
24	Sanford	5
25	Kissimmee	4
<b>Statewide Totals</b>		<b>297</b>

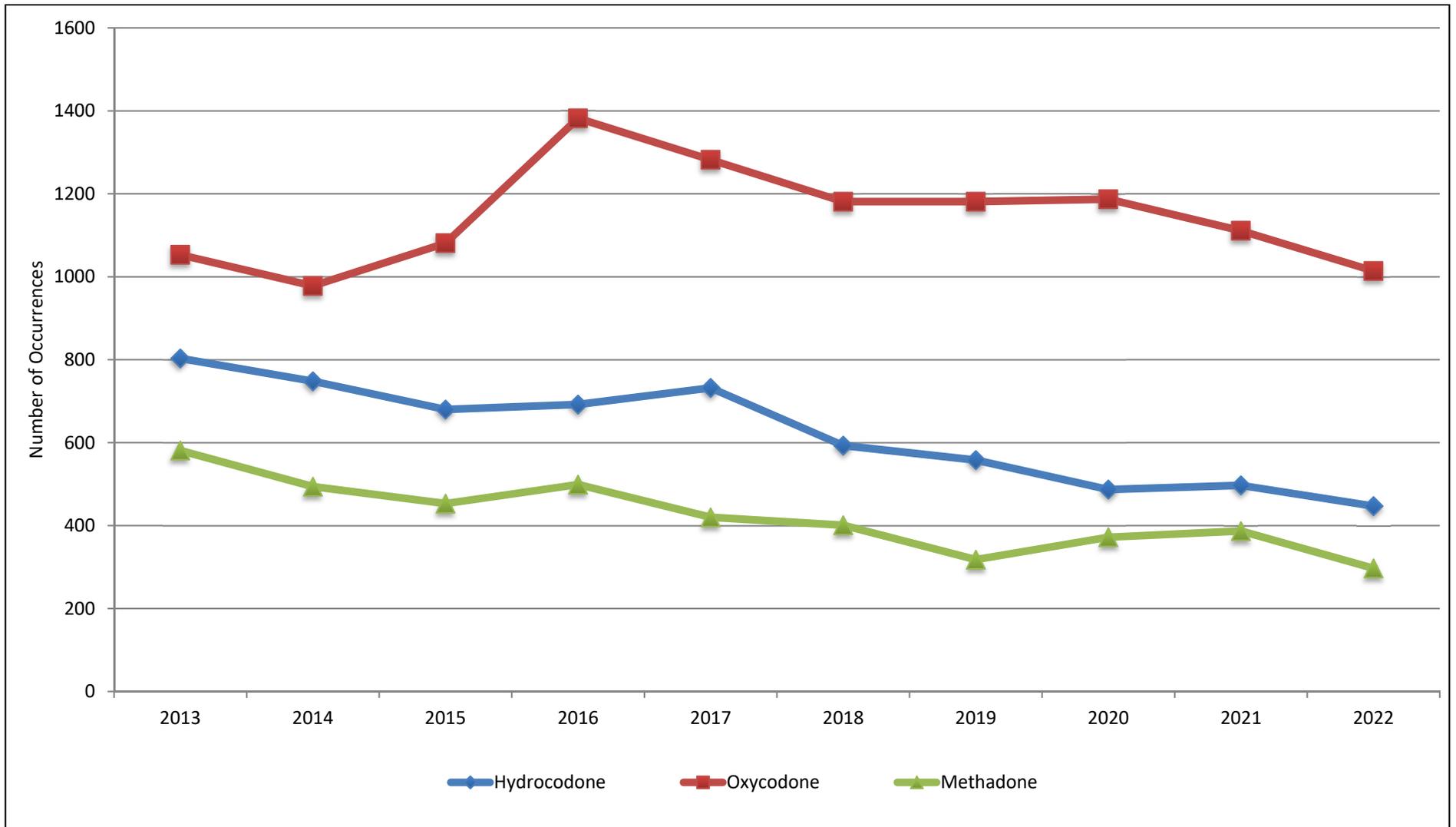
Methadone Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
11	0	0	1	5	5
2	0	0	0	1	1
0	0	0	0	0	0
19	0	0	6	7	6
16	0	0	3	4	9
33	0	1	4	16	12
5	0	0	1	3	1
2	0	0	1	0	1
8	0	0	2	3	3
5	0	0	0	3	2
2	0	0	0	0	2
10	0	0	1	3	6
18	0	0	2	8	8
1	0	0	0	0	1
11	0	1	1	4	5
0	0	0	0	0	0
12	0	0	1	4	7
2	0	0	0	1	1
3	0	0	1	1	1
3	0	0	0	1	2
2	0	0	0	1	1
2	0	0	0	2	0
2	1	0	0	0	1
5	0	1	0	2	2
1	0	0	0	0	1
<b>175</b>	<b>1</b>	<b>3</b>	<b>24</b>	<b>69</b>	<b>78</b>

Methadone Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
4	0	0	0	2	2
4	0	0	0	2	2
2	0	0	0	0	2
14	0	0	1	8	5
3	0	0	0	1	2
11	1	0	1	5	4
6	0	1	2	1	2
2	0	0	0	0	2
6	0	0	0	3	3
4	0	0	1	1	2
6	0	0	2	2	2
9	0	0	1	4	4
6	0	0	0	2	4
0	0	0	0	0	0
17	0	0	2	4	11
1	0	0	0	1	0
4	0	1	0	1	2
5	1	0	0	2	2
5	0	0	1	1	3
6	0	0	0	2	4
1	0	0	0	0	1
1	0	0	0	0	1
2	0	0	0	1	1
0	0	0	0	0	0
3	0	0	2	0	1
<b>122</b>	<b>2</b>	<b>2</b>	<b>13</b>	<b>43</b>	<b>62</b>

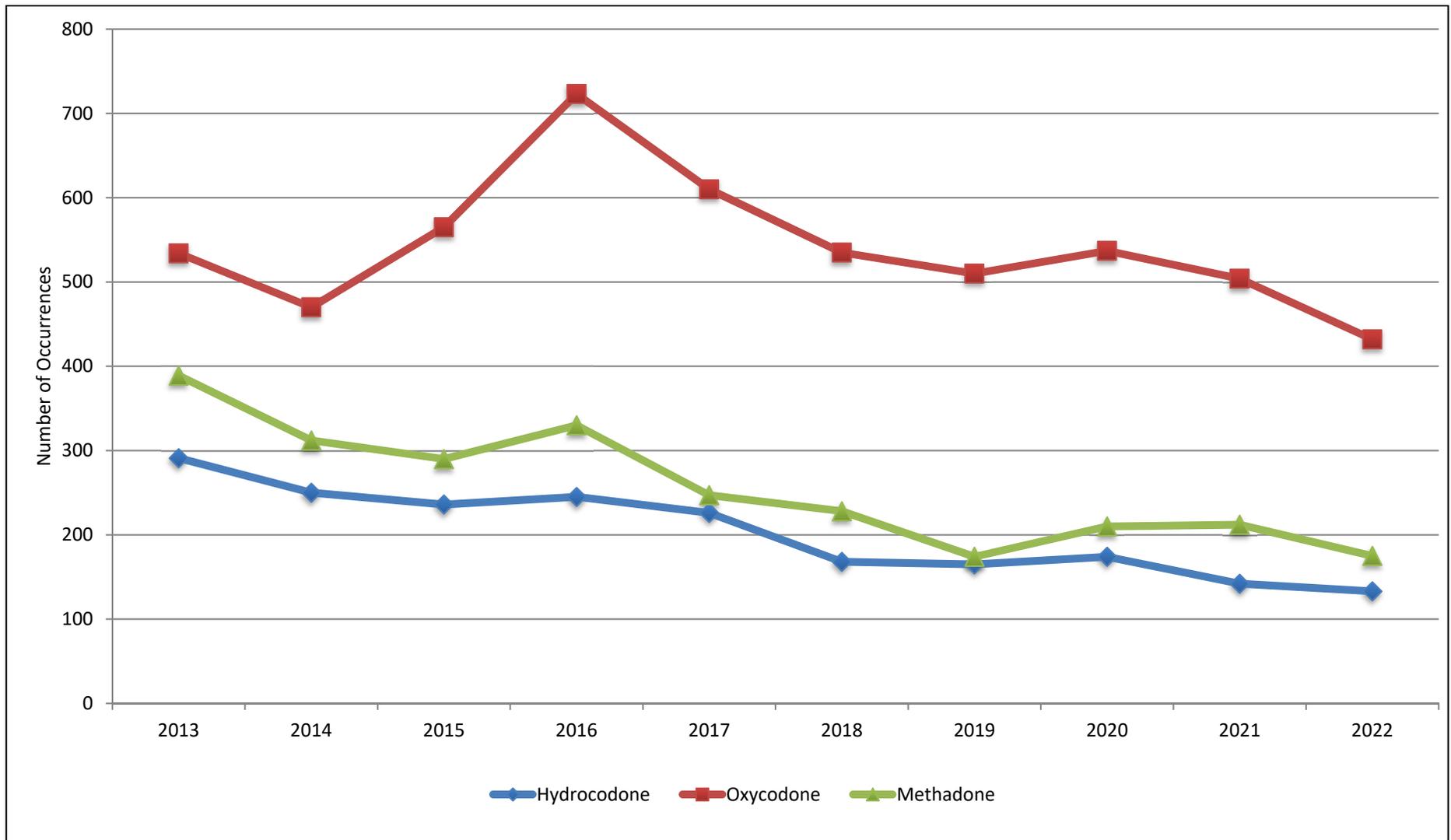
# Methadone Deaths by County 2022



# Historical Overview of Hydrocodone, Oxycodone, and Methadone Occurrences (Present and Cause) 2013 to 2022



# Historical Overview of Deaths Caused by Hydrocodone, Oxycodone, and Methadone 2013 to 2022



## Morphine Deaths

January – December 2022

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
<b>Statewide Totals</b>	

Total Deaths with Morphine		
Total	Cause	Present
86	33	53
22	5	17
3	0	3
33	14	19
37	21	16
84	49	35
23	7	16
9	2	7
96	14	82
40	5	35
43	11	32
20	5	15
83	56	27
9	4	5
105	34	71
1	0	1
55	22	33
12	3	9
7	4	3
19	10	9
33	14	19
10	2	8
4	3	1
9	4	5
18	6	12
<b>861</b>	<b>328</b>	<b>533</b>

Deaths with Morphine Only		
Total	Cause	Present
10	0	10
1	0	1
1	0	1
3	0	3
1	0	1
7	2	5
0	0	0
3	1	2
14	1	13
5	0	5
4	0	4
3	1	2
5	0	5
0	0	0
1	1	0
0	0	0
3	1	2
1	0	1
0	0	0
4	0	4
6	1	5
0	0	0
0	0	0
1	0	1
3	0	3
<b>76</b>	<b>8</b>	<b>68</b>

Deaths with Morphine in Combination with Other Drugs		
Total	Cause	Present
76	33	43
21	5	16
2	0	2
30	14	16
36	21	15
77	47	30
23	7	16
6	1	5
82	13	69
35	5	30
39	11	28
17	4	13
78	56	22
9	4	5
104	33	71
1	0	1
52	21	31
11	3	8
7	4	3
15	10	5
27	13	14
10	2	8
4	3	1
8	4	4
15	6	9
<b>785</b>	<b>320</b>	<b>465</b>

## Morphine Deaths by Age January – December 2022

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	86
2	Tallahassee	22
3	Live Oak	3
4	Jacksonville	33
5	Leesburg	37
6	St. Petersburg	84
7	Daytona Beach	23
8	Gainesville	9
9	Orlando	96
10	Lakeland	40
11	Miami	43
12	Sarasota	20
13	Tampa	83
14	Panama City	9
15	West Palm Beach	105
16	Florida Keys	1
17	Ft. Lauderdale	55
18	Melbourne	12
19	Ft. Pierce	7
20	Naples	19
21	Ft. Myers	33
22	Port Charlotte	10
23	St. Augustine	4
24	Sanford	9
25	Kissimmee	18
<b>Statewide Totals</b>		<b>861</b>

Morphine Caused Death						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
33	0	1	7	15	10	
5	0	1	1	3	0	
0	0	0	0	0	0	
14	0	0	3	3	8	
21	0	1	1	9	10	
49	0	0	4	15	30	
7	0	0	2	3	2	
2	0	0	0	0	2	
14	1	1	2	5	5	
5	0	0	1	1	3	
11	0	1	1	4	5	
5	0	0	1	2	2	
56	0	0	11	27	18	
4	0	0	2	2	0	
34	1	4	5	12	12	
0	0	0	0	0	0	
22	0	0	4	5	13	
3	0	0	2	1	0	
4	0	0	0	0	4	
10	0	1	0	4	5	
14	0	1	3	5	5	
2	0	0	1	0	1	
3	0	0	1	0	2	
4	0	0	0	3	1	
6	0	0	0	4	2	
<b>328</b>	<b>2</b>	<b>11</b>	<b>52</b>	<b>123</b>	<b>140</b>	

Morphine Present at Death						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
53	2	2	1	18	30	
17	0	2	7	2	6	
3	0	0	1	1	1	
19	0	1	3	4	11	
16	0	0	0	3	13	
35	1	1	4	10	19	
16	0	2	2	4	8	
7	0	0	0	2	5	
82	0	3	3	6	70	
35	0	1	3	12	19	
32	1	1	6	8	16	
15	0	0	2	7	6	
27	0	0	5	0	22	
5	0	0	0	1	4	
71	0	2	16	29	24	
1	0	0	0	0	1	
33	0	5	5	9	14	
9	0	2	1	1	5	
3	0	0	1	0	2	
9	0	1	2	0	6	
19	0	0	2	3	14	
8	0	0	0	2	6	
1	0	0	0	0	1	
5	0	0	0	1	4	
12	0	0	0	3	9	
<b>533</b>	<b>4</b>	<b>23</b>	<b>64</b>	<b>126</b>	<b>316</b>	



## Fentanyl Deaths

January – December 2022

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
<b>Statewide Totals</b>	

Total Deaths with Fentanyl		
Total	Cause	Present
372	335	37
59	40	19
30	25	5
581	504	77
332	304	28
718	680	38
295	276	19
77	73	4
449	341	108
143	135	8
296	267	29
233	217	16
510	480	30
74	64	10
468	405	63
24	24	0
555	526	29
120	112	8
146	139	7
97	92	5
304	278	26
37	33	4
93	84	9
84	77	7
133	111	22
<b>6,230</b>	<b>5,622</b>	<b>608</b>

Deaths with Fentanyl Only		
Total	Cause	Present
37	25	12
5	2	3
3	3	0
47	34	13
30	29	1
54	51	3
22	18	4
16	15	1
61	37	24
5	5	0
6	3	3
14	12	2
87	83	4
11	8	3
25	10	15
1	1	0
46	41	5
10	9	1
16	15	1
3	2	1
30	25	5
1	1	0
10	7	3
18	14	4
18	14	4
<b>576</b>	<b>464</b>	<b>112</b>

Deaths with Fentanyl in Combination with Other Drugs		
Total	Cause	Present
335	310	25
54	38	16
27	22	5
534	470	64
302	275	27
664	629	35
273	258	15
61	58	3
388	304	84
138	130	8
290	264	26
219	205	14
423	397	26
63	56	7
443	395	48
23	23	0
509	485	24
110	103	7
130	124	6
94	90	4
274	253	21
36	32	4
83	77	6
66	63	3
115	97	18
<b>5,654</b>	<b>5,158</b>	<b>496</b>

## Fentanyl Deaths by Age

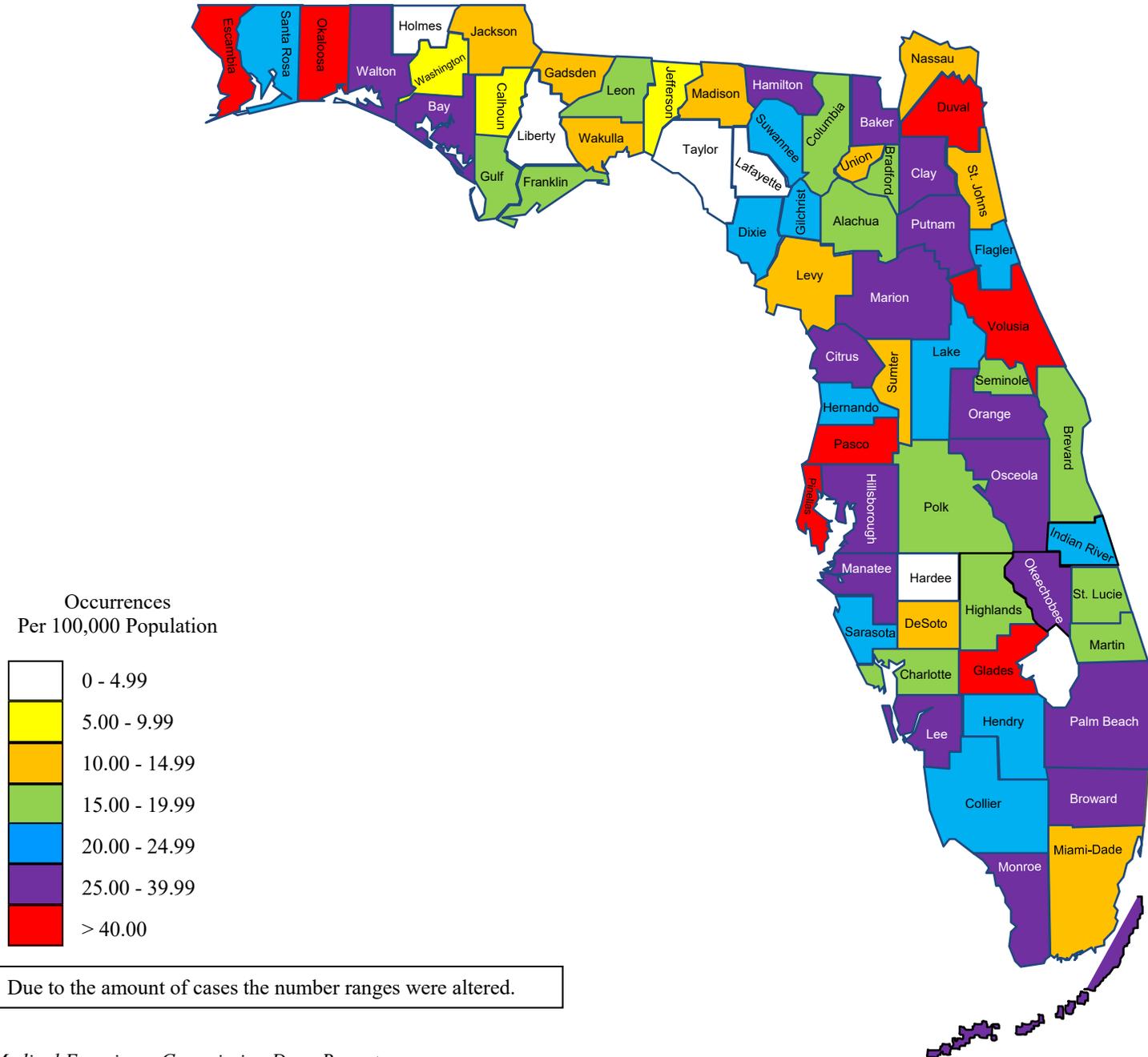
January – December 2022

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	372
2	Tallahassee	59
3	Live Oak	30
4	Jacksonville	581
5	Leesburg	332
6	St. Petersburg	718
7	Daytona Beach	295
8	Gainesville	77
9	Orlando	449
10	Lakeland	143
11	Miami	296
12	Sarasota	233
13	Tampa	510
14	Panama City	74
15	West Palm Beach	468
16	Florida Keys	24
17	Ft. Lauderdale	555
18	Melbourne	120
19	Ft. Pierce	146
20	Naples	97
21	Ft. Myers	304
22	Port Charlotte	37
23	St. Augustine	93
24	Sanford	84
25	Kissimmee	133
<b>Statewide Totals</b>		<b>6,230</b>

Fentanyl Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
335	2	17	80	134	102
40	0	3	7	19	11
25	0	2	5	12	6
504	2	35	103	226	138
304	0	16	60	137	91
680	3	22	141	307	207
276	0	16	58	127	75
73	0	7	10	33	23
341	3	32	64	162	80
135	0	15	35	55	30
267	1	18	58	103	87
217	0	6	47	105	59
480	0	20	112	225	123
64	2	2	15	31	14
405	2	27	98	179	99
24	0	1	6	13	4
526	4	32	139	184	167
112	1	9	32	35	35
139	0	7	34	57	41
92	0	11	17	49	15
278	2	20	66	123	67
33	0	1	7	15	10
84	0	3	21	37	23
77	0	6	24	29	18
111	0	8	22	53	28
<b>5,622</b>	<b>22</b>	<b>336</b>	<b>1,261</b>	<b>2,450</b>	<b>1,553</b>

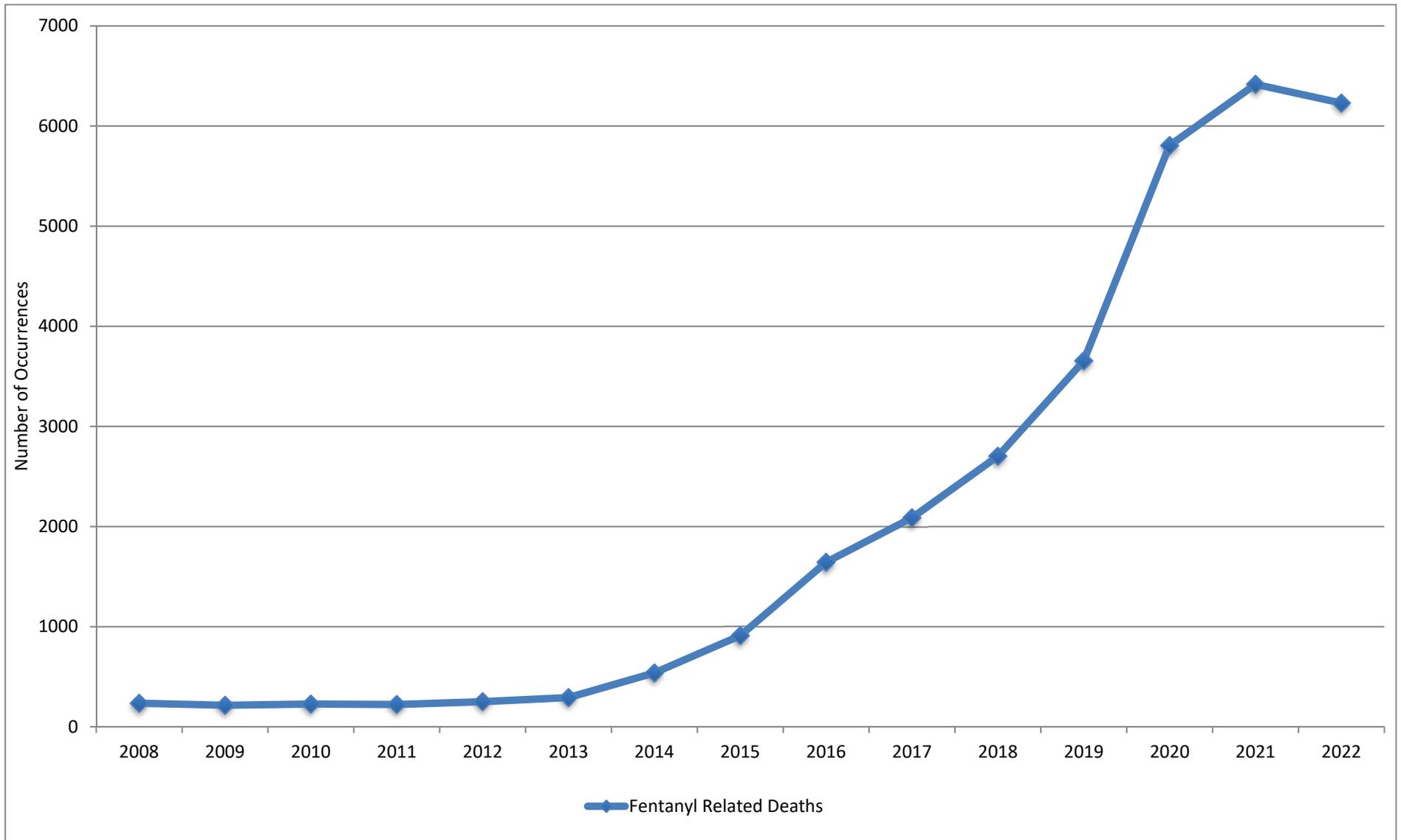
Fentanyl Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
37	4	2	5	6	20
19	1	5	4	4	5
5	0	0	1	1	3
77	2	3	15	33	24
28	0	2	2	14	10
38	1	0	12	15	10
19	1	1	5	9	3
4	0	0	1	2	1
108	2	7	13	28	58
8	0	0	3	4	1
29	1	2	6	11	9
16	0	0	3	9	4
30	1	1	7	12	9
10	0	1	1	2	6
63	3	9	6	24	21
0	0	0	0	0	0
29	1	0	8	10	10
8	0	1	4	1	2
7	1	1	0	4	1
5	0	0	2	1	2
26	2	1	3	9	11
4	0	0	0	1	3
9	0	0	3	2	4
7	0	0	1	4	2
22	0	0	3	12	7
<b>608</b>	<b>20</b>	<b>36</b>	<b>108</b>	<b>218</b>	<b>226</b>

# Fentanyl Deaths by County 2022



# Historical Overview of Fentanyl Occurrences<sup>1</sup>

(Present and Cause)  
2008 to 2022



<sup>1</sup>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 2021 versus 2022

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
<b>Statewide Totals</b>	
<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>	

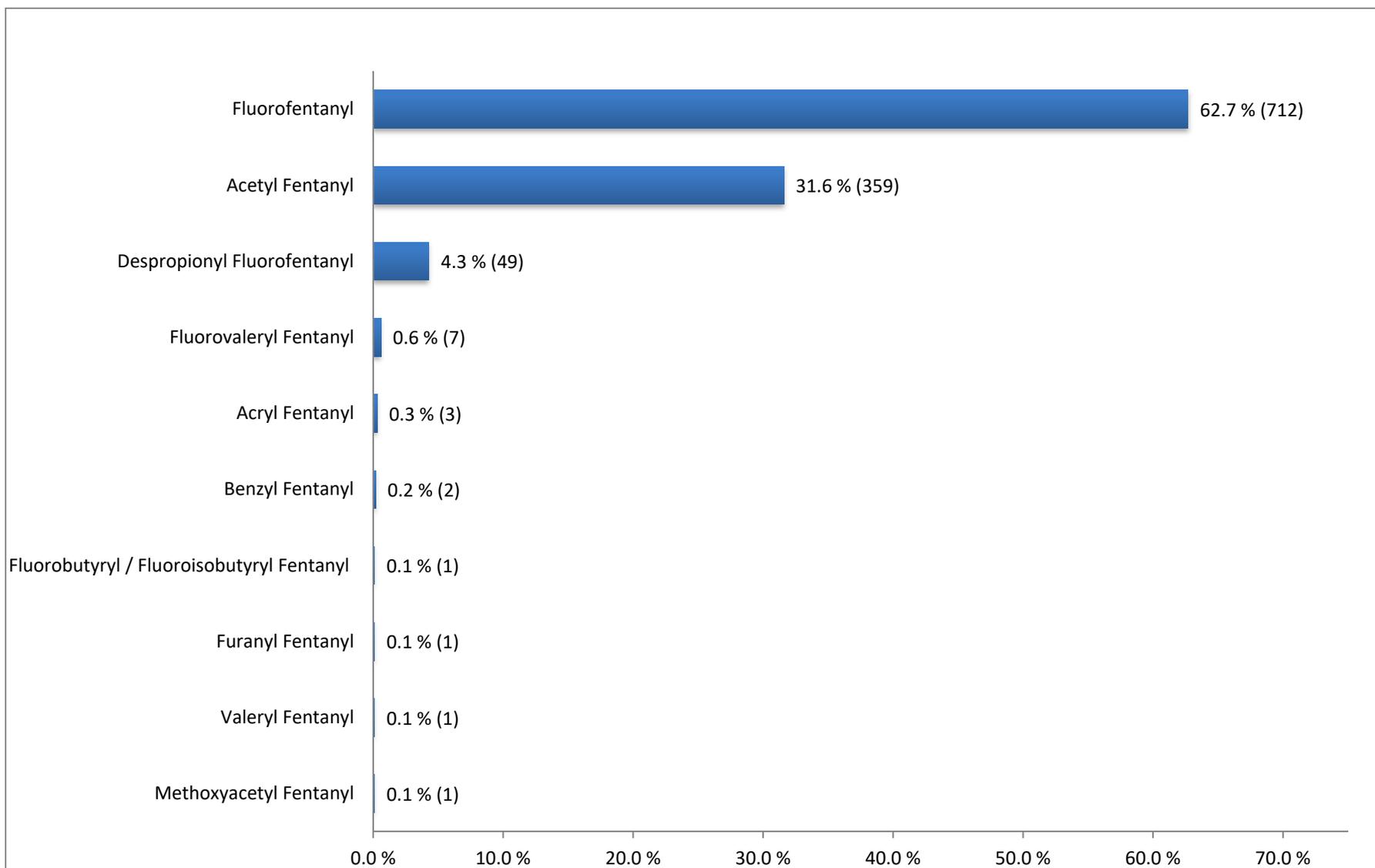
Total Prescription Drug Deaths in ME Deaths (Present and Cause)		
2021	2022	Percent Change
487	535	9.9%
97	108	11.3%
69	61	-11.6%
778	777	-0.1%
439	474	8.0%
954	1,027	7.7%
406	372	-8.4%
116	125	7.8%
790	712	-9.9%
287	270	-5.9%
641	555	-13.4%
386	328	-15.0%
642	720	12.1%
168	124	-26.2%
774	718	-7.2%
40	39	-2.5%
818	730	-10.8%
385	187	-51.4%
287	283	-1.4%
160	155	-3.1%
403	421	4.5%
89	74	-16.9%
128	135	5.5%
111	107	-3.6%
223	193	-13.5%
<b>9,678</b>	<b>9,230</b>	<b>-4.6%</b>
<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)		
2021	2022	Percent Change
375	414	10.4%
62	75	21.0%
33	38	15.2%
630	621	-1.4%
355	383	7.9%
786	838	6.6%
345	320	-7.2%
79	99	25.3%
614	557	-9.3%
209	193	-7.7%
432	373	-13.7%
314	259	-17.5%
505	562	11.3%
124	94	-24.2%
604	539	-10.8%
33	33	0%
683	618	-9.5%
291	130	-55.3%
188	181	-3.7%
120	114	-5.0%
339	331	-2.4%
59	48	-18.6%
97	104	7.2%
87	90	3.4%
167	149	-10.8%
<b>7,531</b>	<b>7,163</b>	<b>-4.9%</b>
<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		
2021	2022	Percent Change
322	368	14.3%
41	51	24.4%
23	27	17.4%
535	532	-0.6%
317	327	3.2%
704	746	6.0%
309	286	-7.4%
58	79	36.2%
452	355	-21.5%
152	143	-5.9%
311	278	-10.6%
279	234	-16.1%
444	514	15.8%
82	69	-15.9%
514	429	-16.5%
28	29	3.6%
622	565	-9.2%
236	112	-52.5%
138	150	8.7%
104	99	-4.8%
302	292	-3.3%
39	40	2.6%
72	83	15.3%
77	83	7.8%
120	116	-3.3%
<b>6,281</b>	<b>6,007</b>	<b>-4.4%</b>
<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 2022



*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 by Age

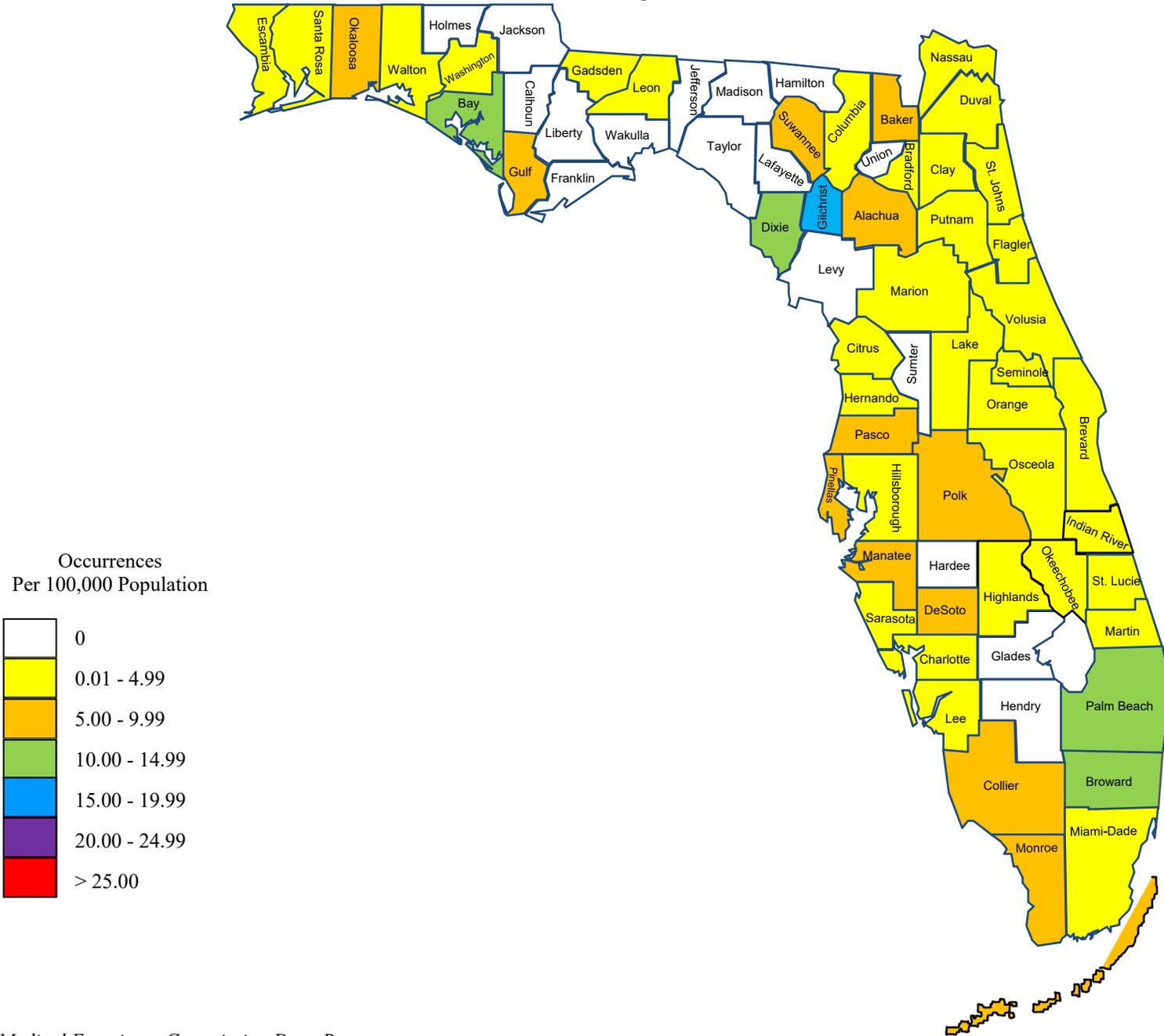
January – December 2022

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	26
2	Tallahassee	3
3	Live Oak	6
4	Jacksonville	44
5	Leesburg	14
6	St. Petersburg	125
7	Daytona Beach	23
8	Gainesville	24
9	Orlando	13
10	Lakeland	51
11	Miami	97
12	Sarasota	53
13	Tampa	4
14	Panama City	24
15	West Palm Beach	169
16	Florida Keys	7
17	Ft. Lauderdale	238
18	Melbourne	5
19	Ft. Pierce	5
20	Naples	34
21	Ft. Myers	25
22	Port Charlotte	1
23	St. Augustine	9
24	Sanford	4
25	Kissimmee	1
<b>Statewide Totals</b>		<b>1,005</b>

Fentanyl Analogs Caused Death						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
22	0	0	6	11	5	
2	0	0	1	1	0	
6	0	1	0	3	2	
41	0	3	7	18	13	
12	0	0	0	10	2	
96	0	5	28	33	30	
18	0	1	2	10	5	
16	0	2	2	7	5	
13	0	1	0	10	2	
27	0	2	6	14	5	
77	0	8	16	27	26	
17	0	0	4	6	7	
4	0	0	0	4	0	
24	1	0	5	13	5	
164	2	11	37	78	36	
3	0	0	1	0	2	
228	1	19	50	80	78	
2	0	0	0	1	1	
4	0	0	2	0	2	
32	0	1	8	16	7	
24	0	0	7	7	10	
1	0	0	0	0	1	
7	0	1	3	1	2	
3	0	1	0	2	0	
1	0	0	0	1	0	
<b>844</b>	<b>4</b>	<b>56</b>	<b>185</b>	<b>353</b>	<b>246</b>	

Fentanyl Analogs Present at Death						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
4	0	0	2	1	1	
1	0	0	0	1	0	
0	0	0	0	0	0	
3	0	0	3	0	0	
2	0	0	1	1	0	
29	0	0	8	13	8	
5	0	0	2	2	1	
8	0	0	3	3	2	
0	0	0	0	0	0	
24	0	3	6	10	5	
20	0	0	10	6	4	
36	0	1	14	14	7	
0	0	0	0	0	0	
0	0	0	0	0	0	
5	0	0	1	4	0	
4	0	0	1	3	0	
10	0	0	0	7	3	
3	0	0	0	0	3	
1	0	0	1	0	0	
2	0	1	0	1	0	
1	0	0	1	0	0	
0	0	0	0	0	0	
2	0	0	0	2	0	
1	0	0	0	1	0	
0	0	0	0	0	0	
<b>161</b>	<b>0</b>	<b>5</b>	<b>53</b>	<b>69</b>	<b>34</b>	

# Fentanyl Analog Deaths by County 2022



## Cocaine Deaths

January – December 2022

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
<b>Statewide Totals</b>	

Total Deaths with Cocaine		
Total	Cause	Present
165	133	32
32	25	7
15	6	9
357	273	84
110	94	16
354	247	107
117	87	30
60	34	26
326	238	88
95	65	30
425	268	157
174	103	71
241	168	73
20	13	7
429	172	257
29	22	7
423	304	119
58	39	19
93	46	47
80	56	24
134	76	58
15	8	7
35	8	27
48	41	7
95	72	23
<b>3,930</b>	<b>2,598</b>	<b>1,332</b>

Deaths with Cocaine Only		
Total	Cause	Present
19	14	5
10	10	0
5	2	3
31	16	15
11	9	2
30	19	11
14	8	6
11	4	7
44	31	13
12	9	3
62	30	32
9	3	6
46	17	29
2	1	1
27	11	16
1	1	0
48	28	20
6	4	2
10	5	5
8	6	2
13	5	8
1	0	1
2	1	1
6	4	2
8	4	4
<b>436</b>	<b>242</b>	<b>194</b>

Deaths with Cocaine in Combination with Other Drugs		
Total	Cause	Present
146	119	27
22	15	7
10	4	6
326	257	69
99	85	14
324	228	96
103	79	24
49	30	19
282	207	75
83	56	27
363	238	125
165	100	65
195	151	44
18	12	6
402	161	241
28	21	7
375	276	99
52	35	17
83	41	42
72	50	22
121	71	50
14	8	6
33	7	26
42	37	5
87	68	19
<b>3,494</b>	<b>2,356</b>	<b>1,138</b>

## Cocaine Deaths by Age

January – December 2022

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	165
2	Tallahassee	32
3	Live Oak	15
4	Jacksonville	357
5	Leesburg	110
6	St. Petersburg	354
7	Daytona Beach	117
8	Gainesville	60
9	Orlando	326
10	Lakeland	95
11	Miami	425
12	Sarasota	174
13	Tampa	241
14	Panama City	20
15	West Palm Beach	429
16	Florida Keys	29
17	Ft. Lauderdale	423
18	Melbourne	58
19	Ft. Pierce	93
20	Naples	80
21	Ft. Myers	134
22	Port Charlotte	15
23	St. Augustine	35
24	Sanford	48
25	Kissimmee	95
<b>Statewide Totals</b>		<b>3,930</b>

Cocaine Caused Death						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
133	0	6	23	46	58	
25	1	0	1	2	21	
6	0	0	0	2	4	
273	0	7	43	122	101	
94	0	2	11	42	39	
247	0	4	46	94	103	
87	0	5	20	33	29	
34	0	1	4	13	16	
238	1	11	38	115	73	
65	0	4	13	21	27	
268	1	13	45	92	117	
103	0	4	22	47	30	
168	0	6	28	64	70	
13	0	0	3	5	5	
172	0	8	35	72	57	
22	0	1	3	13	5	
304	1	11	61	111	120	
39	0	2	2	16	19	
46	0	1	9	12	24	
56	0	2	13	27	14	
76	0	6	12	33	25	
8	0	0	2	2	4	
8	0	0	1	4	3	
41	0	3	7	15	16	
72	0	3	10	36	23	
<b>2,598</b>	<b>4</b>	<b>100</b>	<b>452</b>	<b>1,039</b>	<b>1,003</b>	

Cocaine Present at Death						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
32	0	1	5	7	19	
7	0	0	0	4	3	
9	0	1	2	1	5	
84	1	2	11	37	33	
16	1	2	3	8	2	
107	0	5	22	40	40	
30	0	0	6	10	14	
26	0	1	2	10	13	
88	1	7	18	36	26	
30	0	2	7	10	11	
157	1	17	31	55	53	
71	0	4	18	25	24	
73	0	5	16	24	28	
7	0	0	3	2	2	
257	2	20	59	111	65	
7	0	0	2	3	2	
119	0	6	17	52	44	
19	0	1	5	7	6	
47	0	0	9	23	15	
24	0	4	5	10	5	
58	0	3	13	30	12	
7	0	0	1	3	3	
27	0	0	3	15	9	
7	0	0	0	5	2	
23	0	1	6	7	9	
<b>1,332</b>	<b>6</b>	<b>82</b>	<b>264</b>	<b>535</b>	<b>445</b>	



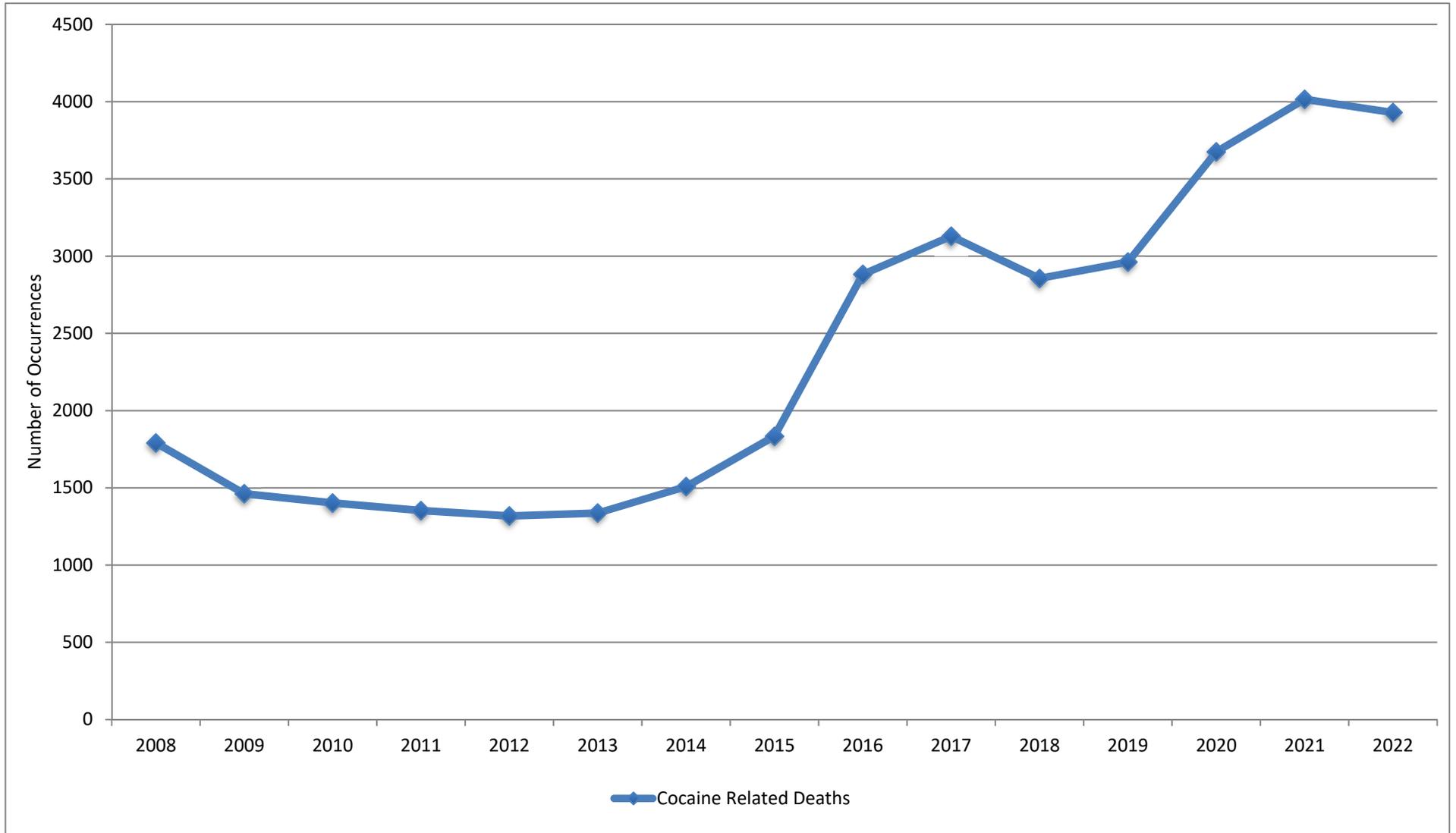
**Cocaine Related Deaths by Medical Examiner District**  
(Present and Cause)  
2008 to 2022

District	Area of Florida	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
1	Pensacola	56	33	36	34	34	31	56	80	57	58	71	73	93	120	165
2	Tallahassee	27	30	25	36	25	23	20	18	32	15	11	20	27	26	32
3	Live Oak	13	16	9	8	13	10	6	5	10	4	12	7	6	12	15
4	Jacksonville	165	125	115	113	119	119	107	146	266	359	251	279	335	341	357
5	Leesburg	67	56	52	48	46	57	62	54	128	109	84	77	87	98	110
6	St. Petersburg	154	139	134	112	125	100	98	101	157	187	225	250	284	334	354
7	Daytona Beach	51	58	44	43	36	37	34	37	51	88	102	76	127	130	117
8	Gainesville	32	39	39	34	30	29	30	31	41	43	35	46	48	55	60
9	Orlando	179	145	128	124	120	137	181	203	230	234	266	265	290	364	326
10	Lakeland	40	35	42	29	27	37	33	33	53	70	67	50	77	93	95
11	Miami	201	155	198	184	198	226	234	289	439	401	363	418	449	471	425
12	Sarasota	75	59	57	54	60	60	84	134	147	132	96	117	157	158	174
13	Tampa	146	54	83	96	59	74	65	84	108	109	140	140	216	255	241
14	Panama City	17	20	9	9	10	11	13	15	5	15	20	30	26	22	20
15	West Palm Beach	143	126	106	91	87	105	143	173	405	417	338	343	407	434	429
16	Florida Keys	15	14	11	7	13	4	6	13	20	20	11	15	12	15	29
17	Ft. Lauderdale	146	135	127	115	129	102	99	152	328	321	236	277	427	449	423
18	Melbourne	68	59	49	38	52	53	60	86	103	128	114	130	158	132	58
19	Ft. Pierce	47	35	20	40	24	34	50	49	71	88	69	66	89	102	93
20	Naples	15	21	13	23	16	10	29	23	40	32	45	61	58	78	80
21	Ft. Myers	67	48	53	73	56	51	63	71	99	152	146	98	128	135	134
22	Port Charlotte	14	9	5	7	9	2	10	12	9	13	10	12	17	20	15
23	St. Augustine	27	19	23	15	11	11	1	9	23	39	33	24	53	39	35
24	Sanford	26	32	24	20	19	14	24	16	37	41	50	44	33	40	48
25	Kissimmee									23	54	61	44	71	92	95
<b>Statewide Total</b>		<b>1,791</b>	<b>1,462</b>	<b>1,402</b>	<b>1,353</b>	<b>1,318</b>	<b>1,337</b>	<b>1,508</b>	<b>1,834</b>	<b>2,882</b>	<b>3,129</b>	<b>2,856</b>	<b>2,962</b>	<b>3,675</b>	<b>4,015</b>	<b>3,930</b>

*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)  
2008 to 2022





## Heroin Deaths by Age

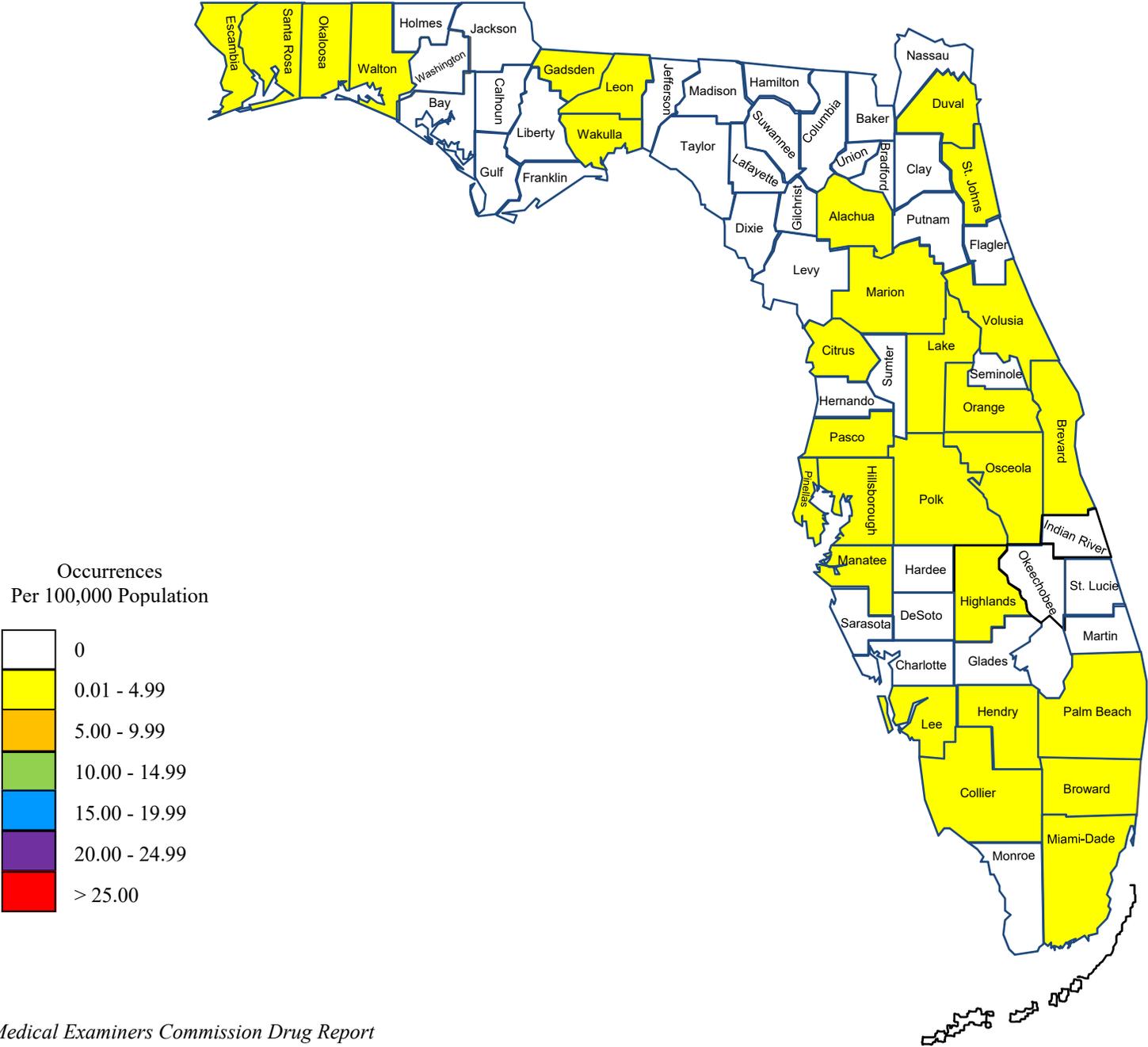
January – December 2022

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	22
2	Tallahassee	3
3	Live Oak	0
4	Jacksonville	7
5	Leesburg	12
6	St. Petersburg	12
7	Daytona Beach	11
8	Gainesville	2
9	Orlando	6
10	Lakeland	6
11	Miami	8
12	Sarasota	1
13	Tampa	32
14	Panama City	0
15	West Palm Beach	59
16	Florida Keys	0
17	Ft. Lauderdale	32
18	Melbourne	1
19	Ft. Pierce	0
20	Naples	4
21	Ft. Myers	3
22	Port Charlotte	0
23	St. Augustine	1
24	Sanford	0
25	Kissimmee	5
<b>Statewide Totals</b>		<b>227</b>

Heroin Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
22	0	1	0	11	10
1	0	0	0	1	0
0	0	0	0	0	0
7	0	1	1	1	4
12	0	0	1	6	5
9	0	0	1	4	4
11	0	2	3	5	1
2	0	1	0	1	0
6	0	1	0	4	1
5	0	0	2	1	2
8	0	0	0	2	6
0	0	0	0	0	0
32	0	0	7	18	7
0	0	0	0	0	0
21	1	4	5	8	3
0	0	0	0	0	0
15	0	1	4	4	6
1	0	0	1	0	0
0	0	0	0	0	0
4	0	0	0	2	2
3	0	1	0	0	2
0	0	0	0	0	0
1	0	0	0	0	1
0	0	0	0	0	0
5	0	0	0	4	1
<b>165</b>	<b>1</b>	<b>12</b>	<b>25</b>	<b>72</b>	<b>55</b>

Heroin Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
0	0	0	0	0	0
2	0	0	0	0	2
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
3	0	0	1	0	2
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
1	0	0	1	0	0
0	0	0	0	0	0
1	0	0	1	0	0
0	0	0	0	0	0
0	0	0	0	0	0
38	0	1	14	16	7
0	0	0	0	0	0
17	0	2	5	5	5
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
<b>62</b>	<b>0</b>	<b>3</b>	<b>22</b>	<b>21</b>	<b>16</b>

# Heroin Deaths by County 2022



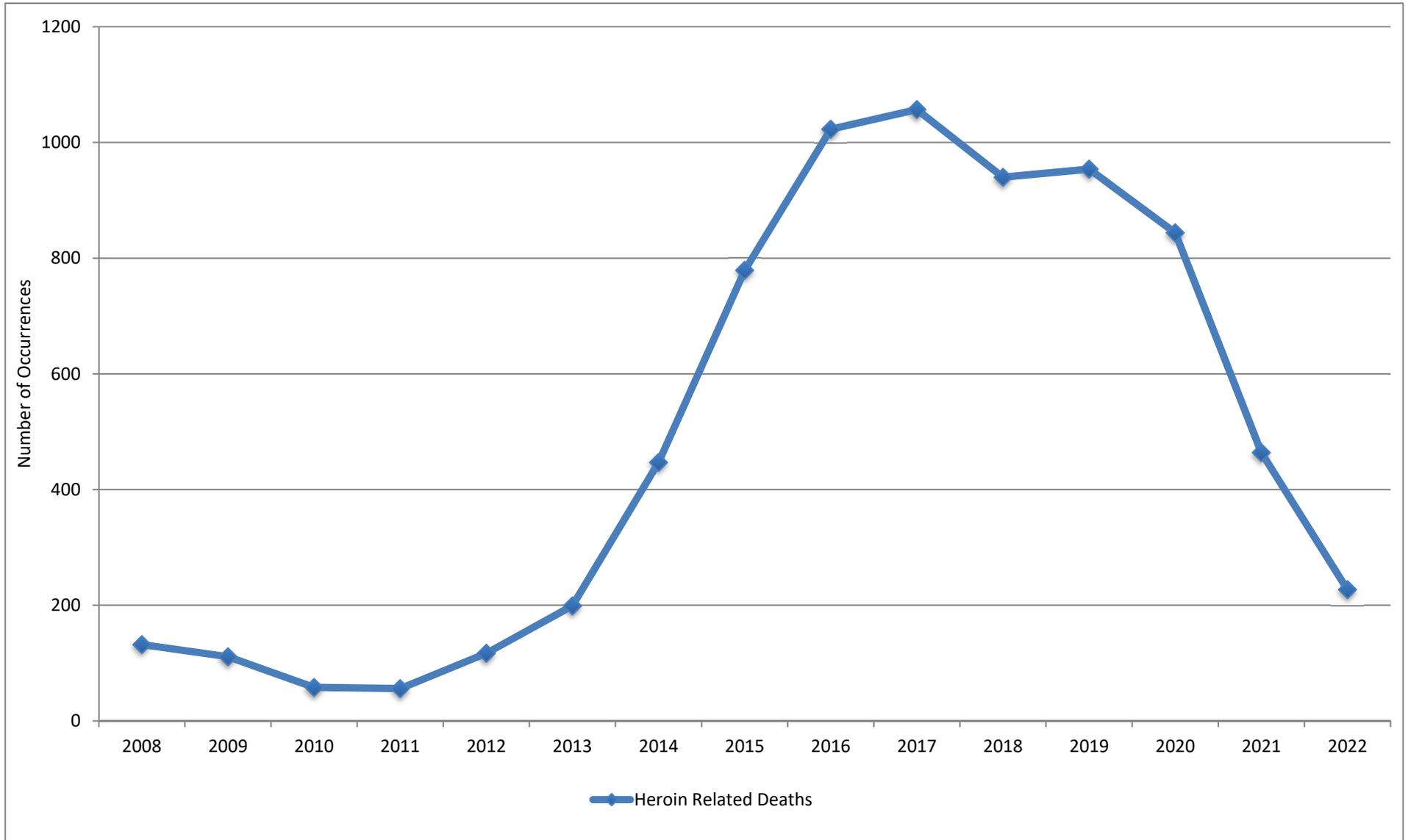
## Heroin Related Deaths by Medical Examiner District (Present and Cause) 2008 to 2022

District	Area of Florida	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
1	Pensacola	1	2	0	0	1	3	12	28	34	30	35	35	63	46	22
2	Tallahassee	0	0	0	1	0	1	2	0	1	2	1	4	5	4	3
3	Live Oak	0	0	0	0	0	1	0	1	0	2	0	0	5	0	0
4	Jacksonville	3	4	1	3	14	15	16	45	81	98	60	50	35	6	7
5	Leesburg	5	1	0	1	3	2	16	8	40	34	44	56	46	30	12
6	St. Petersburg	5	9	3	1	1	4	7	14	18	22	56	73	55	20	12
7	Daytona Beach	0	3	1	0	1	3	4	20	21	37	75	34	44	21	11
8	Gainesville	0	0	0	0	2	1	2	3	2	4	2	5	4	6	2
9	Orlando	16	24	10	18	26	41	83	108	68	59	54	58	37	17	6
10	Lakeland	0	2	1	0	1	4	7	10	11	10	5	11	19	4	6
11	Miami	38	30	26	15	33	40	60	92	139	97	59	68	43	21	8
12	Sarasota	19	4	2	2	8	19	55	68	32	22	17	20	15	6	1
13	Tampa	5	2	1	2	2	3	22	35	52	75	114	77	119	49	32
14	Panama City	0	0	1	0	0	2	2	4	8	4	7	18	12	8	0
15	West Palm Beach	7	7	4	6	6	20	51	165	205	215	174	205	138	98	59
16	Florida Keys	1	1	0	0	1	1	0	1	7	4	0	1	2	1	0
17	Ft. Lauderdale	17	8	5	3	9	11	28	80	180	186	110	133	118	73	32
18	Melbourne	1	2	0	0	0	2	7	12	21	25	18	8	2	4	1
19	Ft. Pierce	3	1	1	1	2	3	7	8	7	13	4	3	3	1	0
20	Naples	1	0	0	0	0	2	14	11	15	15	14	17	24	18	4
21	Ft. Myers	7	9	0	1	4	12	30	43	30	34	35	22	22	10	3
22	Port Charlotte	0	1	0	0	1	1	3	2	3	1	3	4	3	4	0
23	St. Augustine	0	0	1	0	1	1	1	2	6	14	5	11	9	3	1
24	Sanford	3	1	1	2	1	7	18	19	27	33	31	23	7	5	0
25	Kissimmee									15	21	17	18	14	9	5
<b>Statewide Totals</b>		<b>132</b>	<b>111</b>	<b>58</b>	<b>56</b>	<b>117</b>	<b>199</b>	<b>447</b>	<b>779</b>	<b>1,023</b>	<b>1,057</b>	<b>940</b>	<b>954</b>	<b>844</b>	<b>464</b>	<b>227</b>

*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)  
2008 to 2022



## Methamphetamine Deaths

January – December 2022

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
<b>Statewide Totals</b>	

Total Deaths with Methamphetamine		
Total	Cause	Present
313	256	57
52	34	18
44	25	19
286	202	84
253	207	46
413	359	54
165	139	26
53	31	22
131	94	37
158	128	30
84	54	30
112	82	30
220	168	52
80	51	29
79	26	53
5	4	1
63	41	22
63	44	19
43	33	10
34	26	8
124	97	27
33	25	8
45	22	23
18	16	2
47	29	18
<b>2,918</b>	<b>2,193</b>	<b>725</b>

Deaths with Methamphetamine Only		
Total	Cause	Present
3	1	2
1	1	0
0	0	0
2	0	2
4	3	1
6	4	2
2	1	1
1	0	1
8	4	4
4	3	1
1	1	0
5	2	3
19	12	7
3	2	1
2	2	0
0	0	0
1	1	0
1	1	0
5	3	2
1	1	0
1	0	1
0	0	0
0	0	0
1	0	1
2	0	2
<b>73</b>	<b>42</b>	<b>31</b>

Deaths with Methamphetamine in Combination with Other Drugs		
Total	Cause	Present
310	255	55
51	33	18
44	25	19
284	202	82
249	204	45
407	355	52
163	138	25
52	31	21
123	90	33
154	125	29
83	53	30
107	80	27
201	156	45
77	49	28
77	24	53
5	4	1
62	40	22
62	43	19
38	30	8
33	25	8
123	97	26
33	25	8
45	22	23
17	16	1
45	29	16
<b>2,845</b>	<b>2,151</b>	<b>694</b>

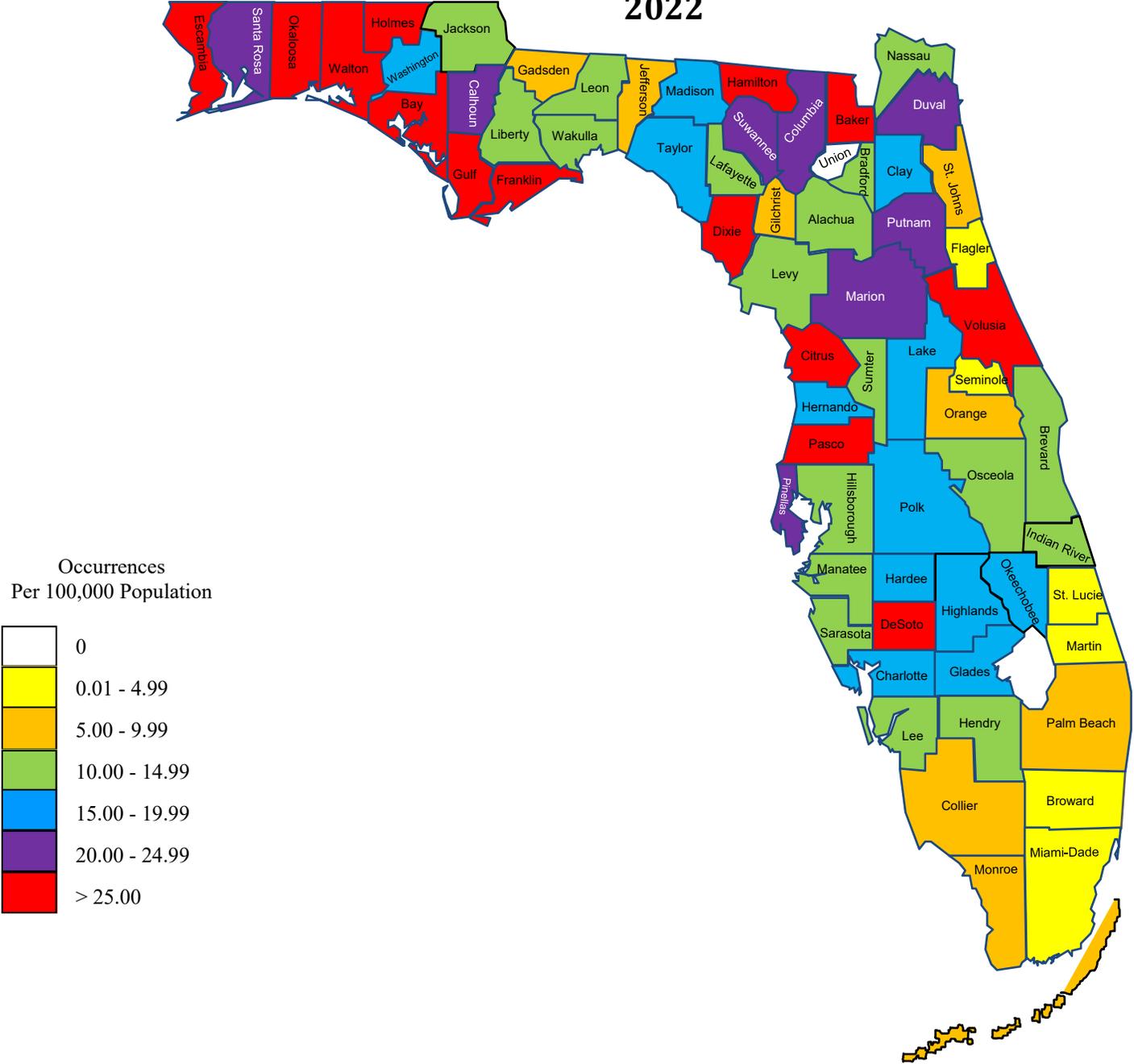
## Methamphetamine Deaths by Age January – December 2022

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	313
2	Tallahassee	52
3	Live Oak	44
4	Jacksonville	286
5	Leesburg	253
6	St. Petersburg	413
7	Daytona Beach	165
8	Gainesville	53
9	Orlando	131
10	Lakeland	158
11	Miami	84
12	Sarasota	112
13	Tampa	220
14	Panama City	80
15	West Palm Beach	79
16	Florida Keys	5
17	Ft. Lauderdale	63
18	Melbourne	63
19	Ft. Pierce	43
20	Naples	34
21	Ft. Myers	124
22	Port Charlotte	33
23	St. Augustine	45
24	Sanford	18
25	Kissimmee	47
<b>Statewide Totals</b>		<b>2,918</b>

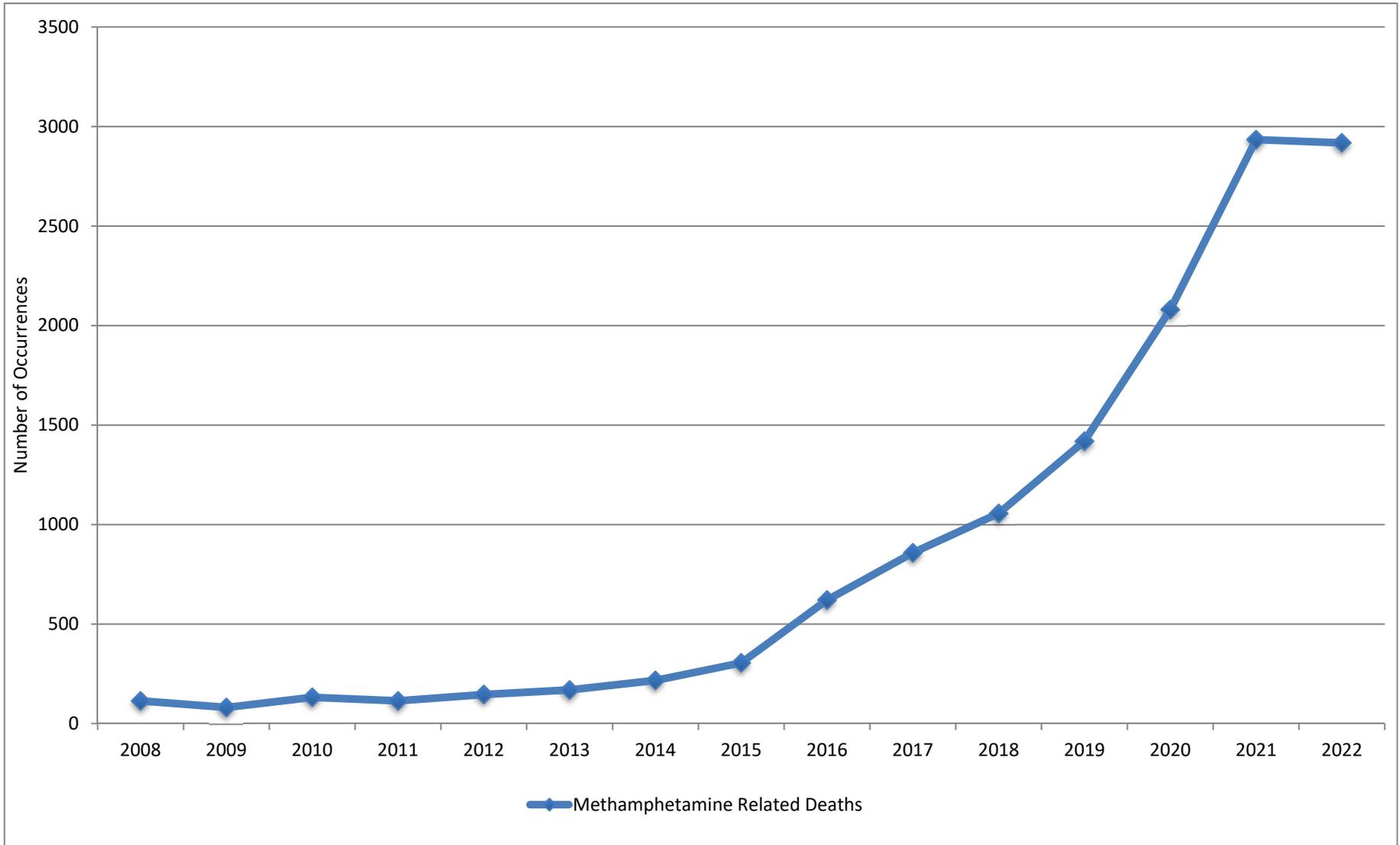
Methamphetamine Caused Death						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
256	0	12	50	109	85	
34	0	0	7	16	11	
25	0	0	4	11	10	
202	1	11	42	100	48	
207	0	4	39	99	65	
359	3	15	75	159	107	
139	1	4	22	71	41	
31	0	4	2	16	9	
94	0	7	14	49	24	
128	2	7	22	44	53	
54	1	2	15	22	14	
82	0	5	16	33	28	
168	0	4	28	94	42	
51	0	2	7	27	15	
26	0	0	4	15	7	
4	0	0	3	0	1	
41	0	1	10	16	14	
44	2	3	13	15	11	
33	1	3	5	15	9	
26	0	2	3	12	9	
97	0	7	26	48	16	
25	0	1	4	12	8	
22	0	1	6	9	6	
16	0	1	4	7	4	
29	0	0	5	17	7	
<b>2,193</b>	<b>11</b>	<b>96</b>	<b>426</b>	<b>1,016</b>	<b>644</b>	

Methamphetamine Present at Death						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
57	0	3	12	26	16	
18	0	2	6	5	5	
19	0	0	4	8	7	
84	0	6	21	44	13	
46	0	1	16	24	5	
54	1	2	8	37	6	
26	0	0	6	12	8	
22	0	3	5	10	4	
37	0	2	8	20	7	
30	0	3	11	10	6	
30	0	3	7	14	6	
30	0	0	10	10	10	
52	0	4	13	26	9	
29	1	1	8	11	8	
53	0	4	17	25	7	
1	0	0	1	0	0	
22	0	1	5	13	3	
19	0	2	4	7	6	
10	0	1	4	3	2	
8	0	2	4	1	1	
27	0	0	6	17	4	
8	0	0	1	5	2	
23	0	1	8	11	3	
2	0	0	1	0	1	
18	0	0	5	8	5	
<b>725</b>	<b>2</b>	<b>41</b>	<b>191</b>	<b>347</b>	<b>144</b>	

# Methamphetamine Deaths by County 2022



# Historical Overview of Methamphetamine Occurrences (Present and Cause) 2008 to 2022



## Xylazine Deaths

January – December 2022

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
<b>Statewide Totals</b>	

Total Deaths with Xylazine		
Total	Cause	Present
1	1	0
1	1	0
1	0	1
95	52	43
0	0	0
53	18	35
23	23	0
6	1	5
5	5	0
32	16	16
43	32	11
76	18	58
3	2	1
1	1	0
44	40	4
1	0	1
27	21	6
1	0	1
2	1	1
16	4	12
25	25	0
0	0	0
14	6	8
1	1	0
0	0	0
<b>471</b>	<b>268</b>	<b>203</b>

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
2	0	2
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
<b>2</b>	<b>0</b>	<b>2</b>

Deaths with Xylazine in Combination with Other Drugs		
Total	Cause	Present
1	1	0
1	1	0
1	0	1
95	52	43
0	0	0
53	18	35
23	23	0
6	1	5
5	5	0
32	16	16
41	32	9
76	18	58
3	2	1
1	1	0
44	40	4
1	0	1
27	21	6
1	0	1
2	1	1
16	4	12
25	25	0
0	0	0
14	6	8
1	1	0
0	0	0
<b>469</b>	<b>268</b>	<b>201</b>

## Xylazine Deaths by Age January – December 2022

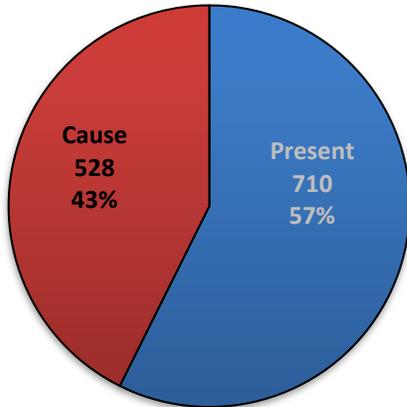
Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	1
2	Tallahassee	1
3	Live Oak	1
4	Jacksonville	95
5	Leesburg	0
6	St. Petersburg	53
7	Daytona Beach	23
8	Gainesville	6
9	Orlando	5
10	Lakeland	32
11	Miami	43
12	Sarasota	76
13	Tampa	3
14	Panama City	1
15	West Palm Beach	44
16	Florida Keys	1
17	Ft. Lauderdale	27
18	Melbourne	1
19	Ft. Pierce	2
20	Naples	16
21	Ft. Myers	25
22	Port Charlotte	0
23	St. Augustine	14
24	Sanford	1
25	Kissimmee	0
<b>Statewide Totals</b>		<b>471</b>

Xylazine Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
1	0	1	0	0	0
1	0	0	0	1	0
0	0	0	0	0	0
52	0	4	5	23	20
0	0	0	0	0	0
18	0	0	7	6	5
23	0	0	3	14	6
1	0	0	0	0	1
5	0	2	0	3	0
16	0	4	3	6	3
32	0	1	7	16	8
18	0	0	6	8	4
2	0	0	1	1	0
1	0	0	0	1	0
40	0	2	5	20	13
0	0	0	0	0	0
21	1	2	4	7	7
0	0	0	0	0	0
1	0	0	0	1	0
4	0	0	1	3	0
25	0	0	4	17	4
0	0	0	0	0	0
6	0	0	2	2	2
1	0	0	0	1	0
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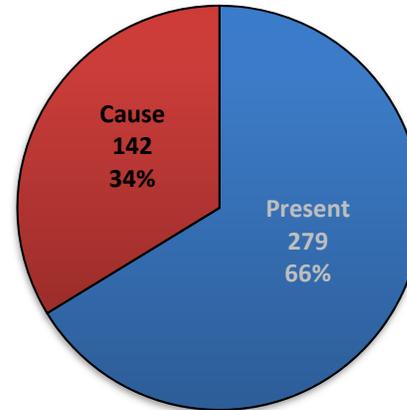


## 2022 Drug Detected at Death: Cause vs. Present

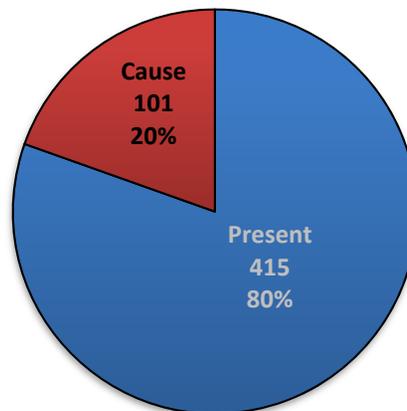
**Alprazolam Deaths**  
Total Occurrences = 1,238



**Diazepam Deaths**  
Total Occurrences = 421

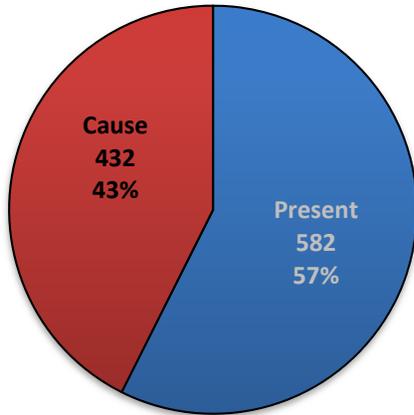


**Clonazepam Deaths**  
Total Occurrences = 516

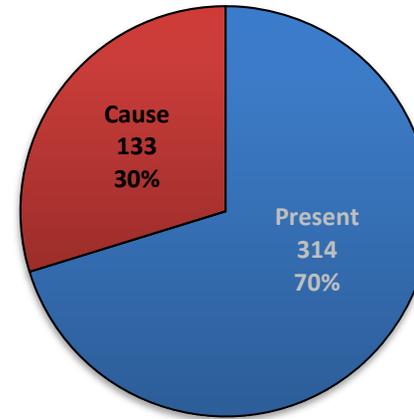


## 2022 Drug Detected at Death: Cause vs. Present

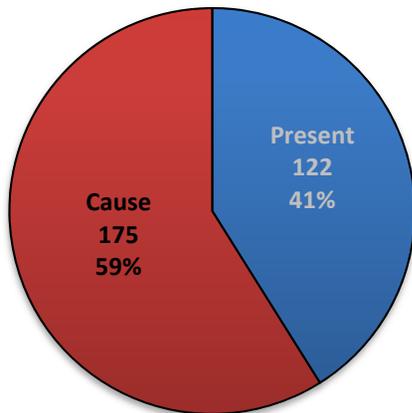
**Oxycodone Deaths**  
Total Occurrences = 1,014



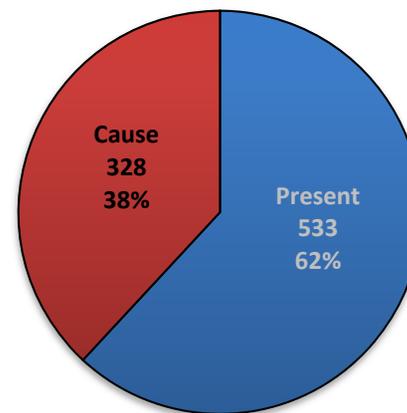
**Hydrocodone Deaths**  
Total Occurrences = 447



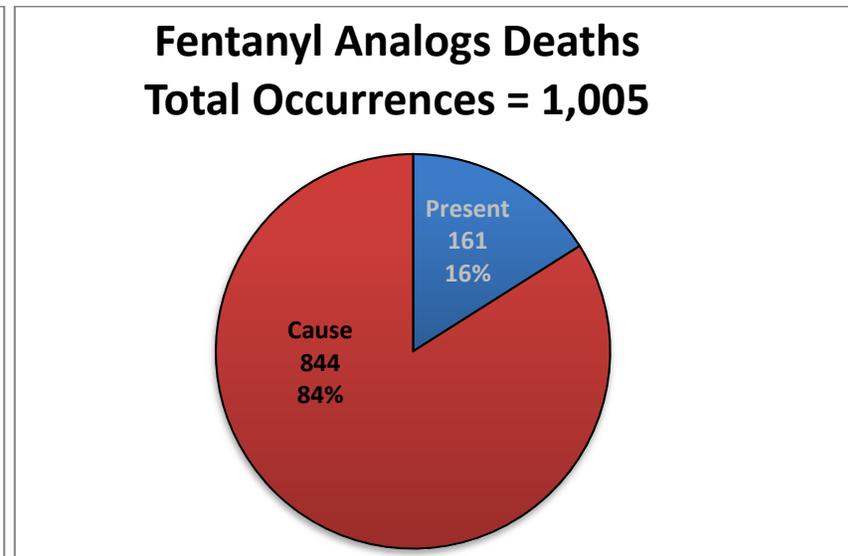
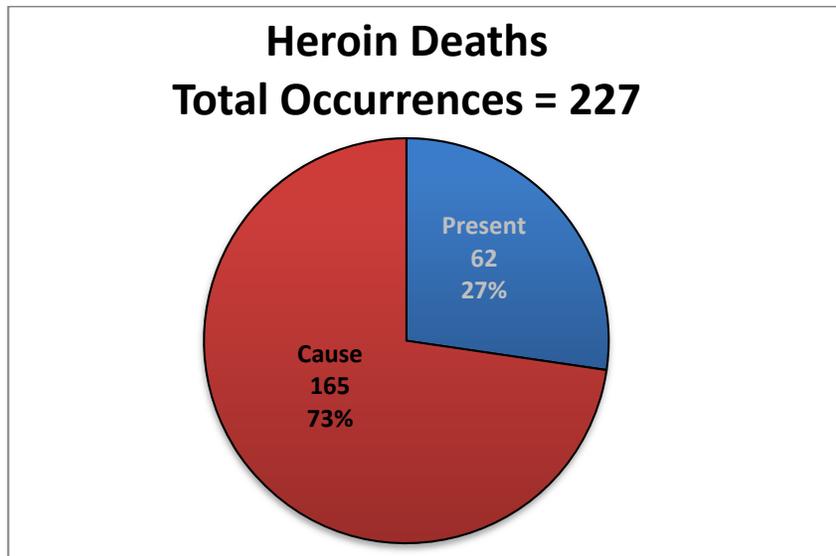
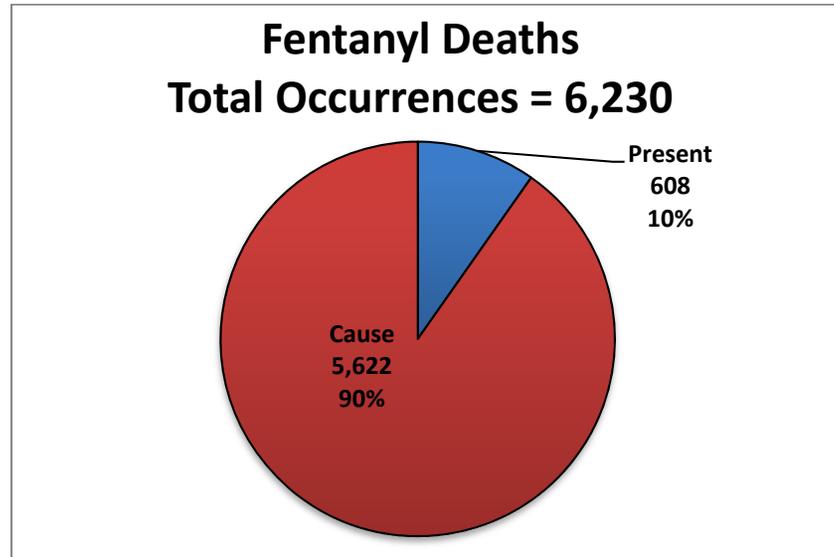
**Methadone Deaths**  
Total Occurrences = 297



**Morphine Deaths**  
Total Occurrences = 861

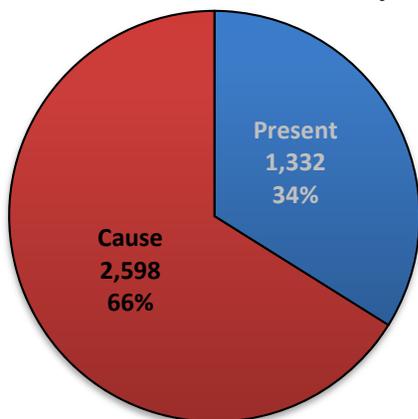


## 2022 Drug Detected at Death: Cause vs. Present

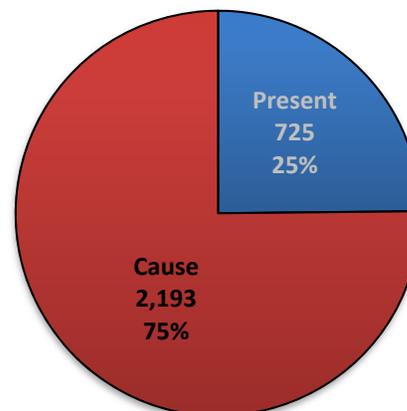


## 2022 Drug Detected at Death: Cause vs. Present

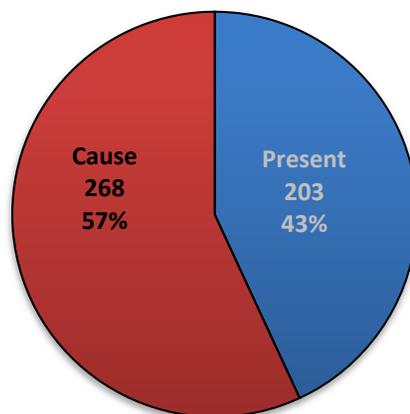
**Cocaine Deaths**  
Total Occurrences = 3,930



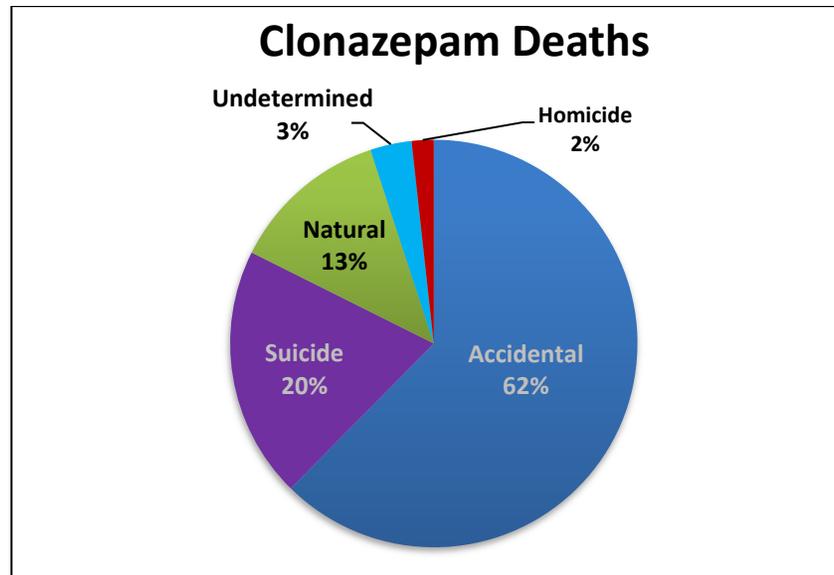
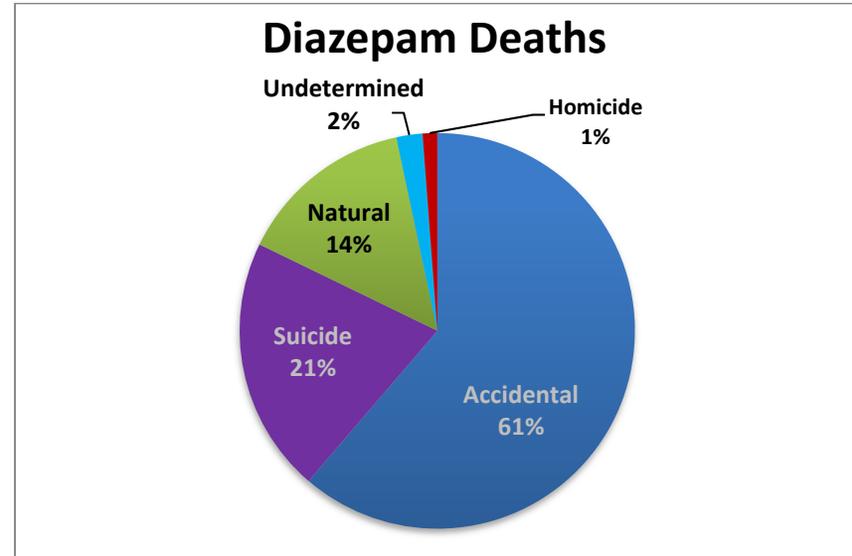
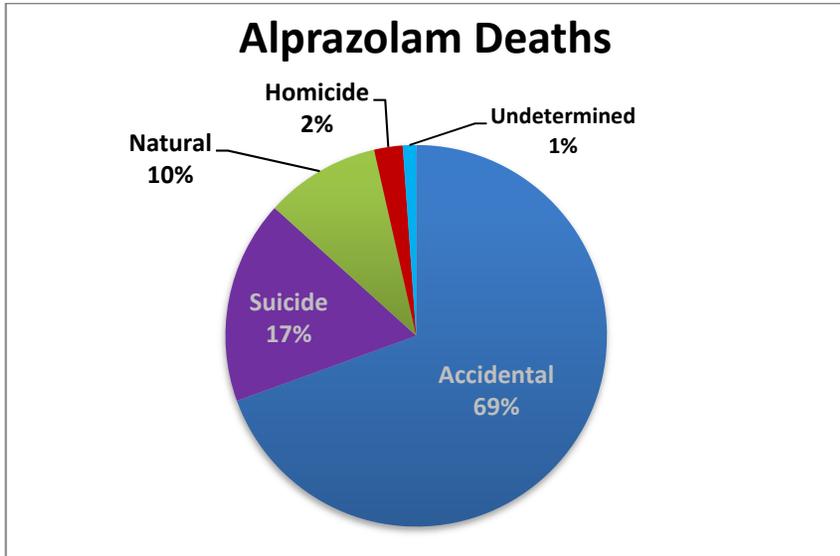
**Methamphetamine Deaths**  
Total Occurrences = 2,918



**Xylazine Deaths**  
Total Occurrences = 471

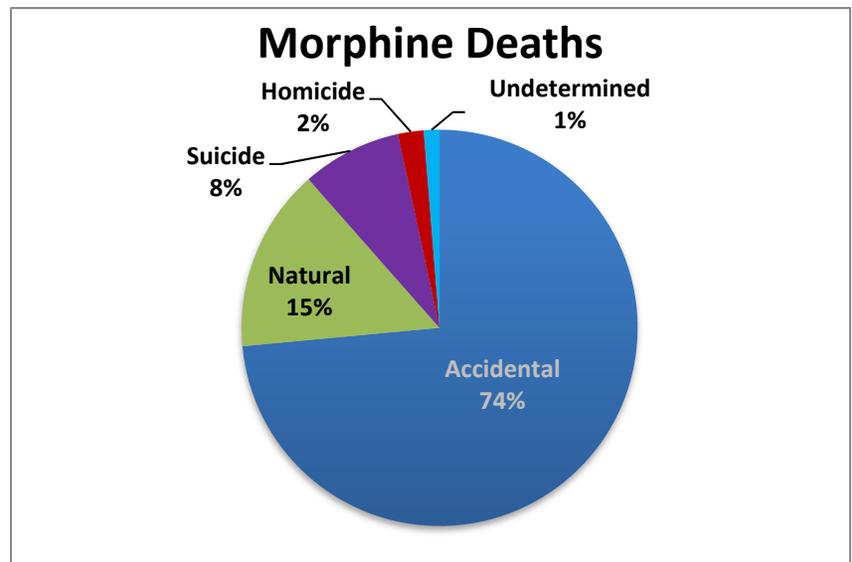
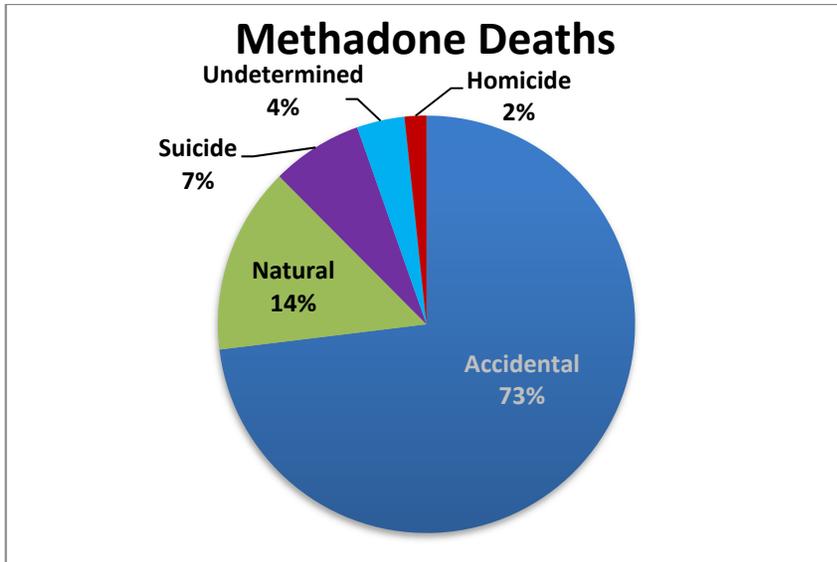
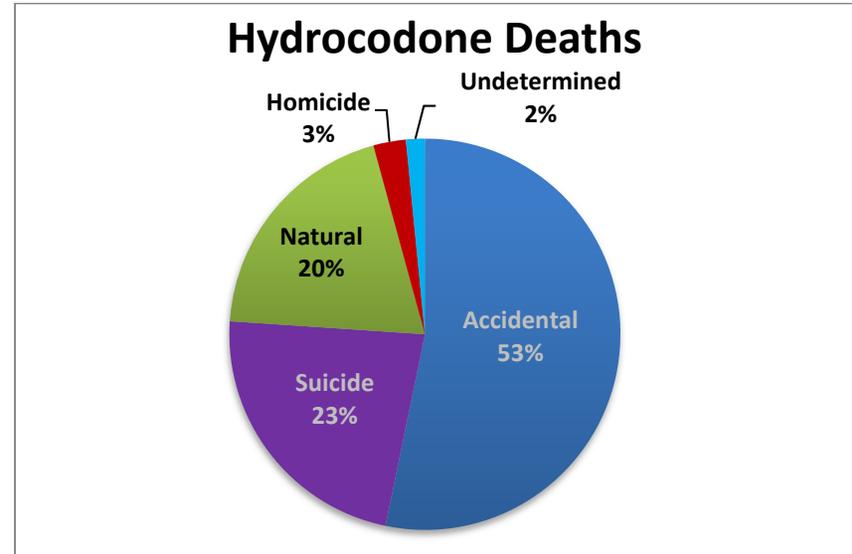
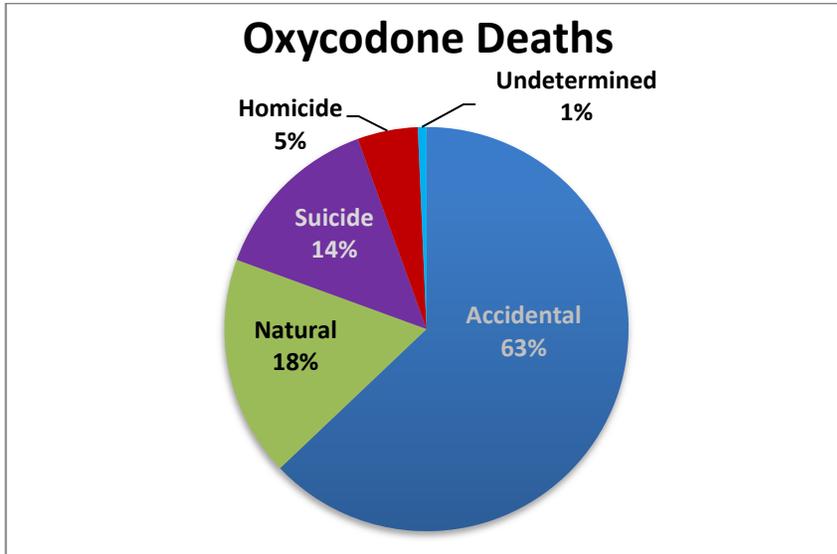


## 2022 Manner of Death for Reported Drug Occurrences



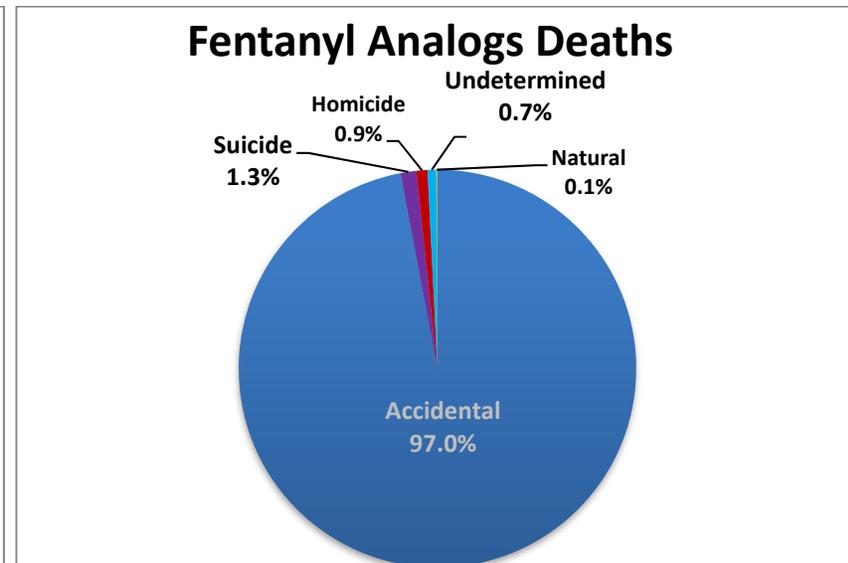
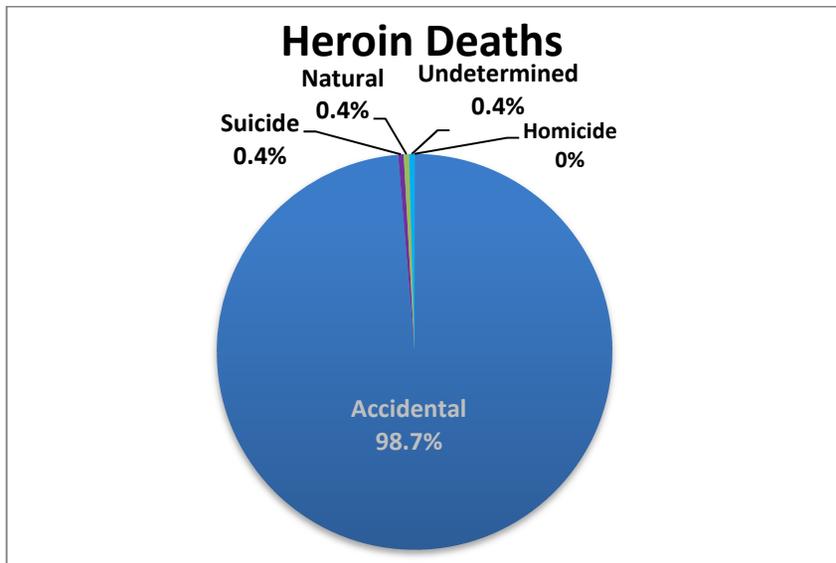
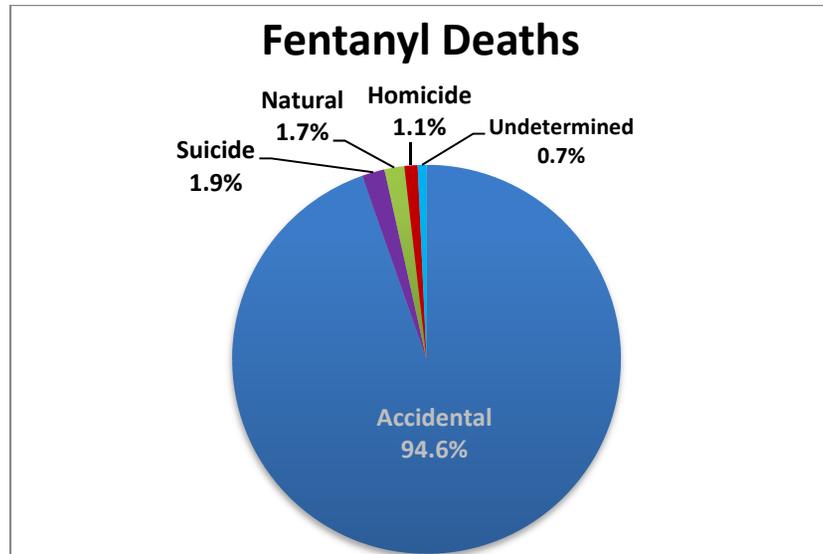
Note: Percentages may not sum to 100 percent because of rounding.

## 2022 Manner of Death for Reported Drug Occurrences



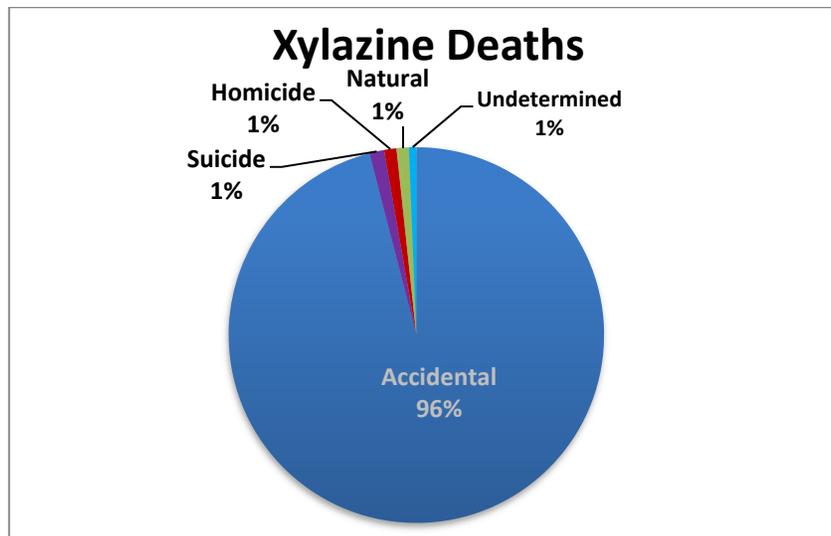
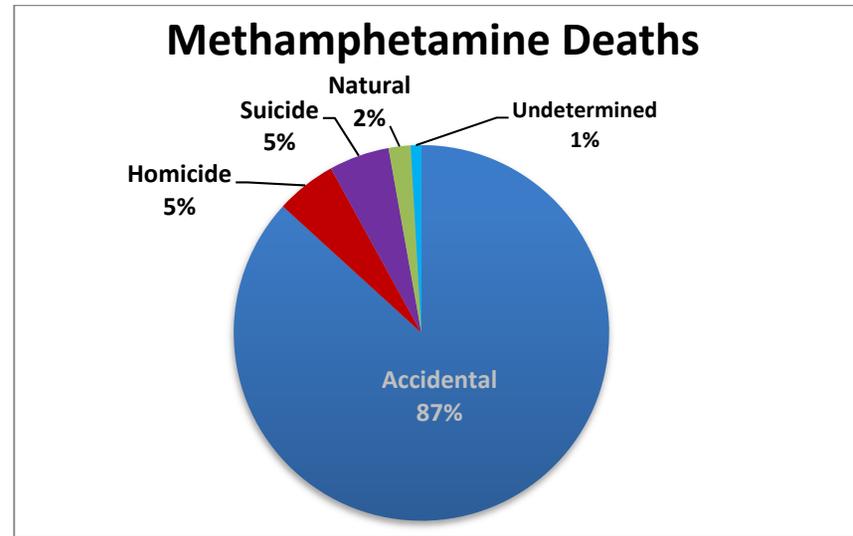
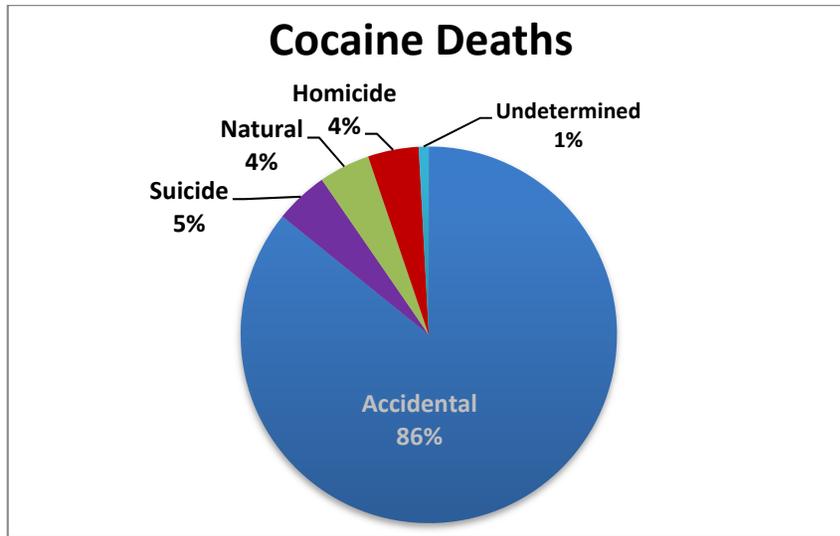
*Note: Percentages may not sum to 100 percent because of rounding.*

## 2022 Manner of Death for Reported Drug Occurrences



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

## 2022 Manner of Death for Reported Drug Occurrences



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

## **Analytes**

Below are specific analytes that were identified in the decedents:

### **Cathinones**

- N, N-Dimethylpentylone
- Eutylone
- Alpha PiHP
- Alpha PVP
- Pentylone
- N-propyl butylone
- N-Cyclohexylbutylone
- N, N-Dimethylone

### **Synthetic Cannabinoids**

- MDMB-4en-PINACA
- 5-fluoro-MDMB
- ADB-Fubiata
- MDMB-4en-PINACA butanoic acid

### **Phenethylamines/Piperazines**

- 3,4-Methylenedioxyamphetamine
- 3,4-Methylenedioxymethamphetamine

## 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 “Mitsubishi” 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.

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

## **Glossary (Continued)**

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

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

**Xylazine** - A drug used in veterinary medicine as a sedative with analgesic and muscle relaxant properties. It is often mixed with other drugs such as fentanyl, heroin and cocaine.

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