

Drugs Identified in Deceased Persons by Florida Medical Examiners



2021 Annual Report

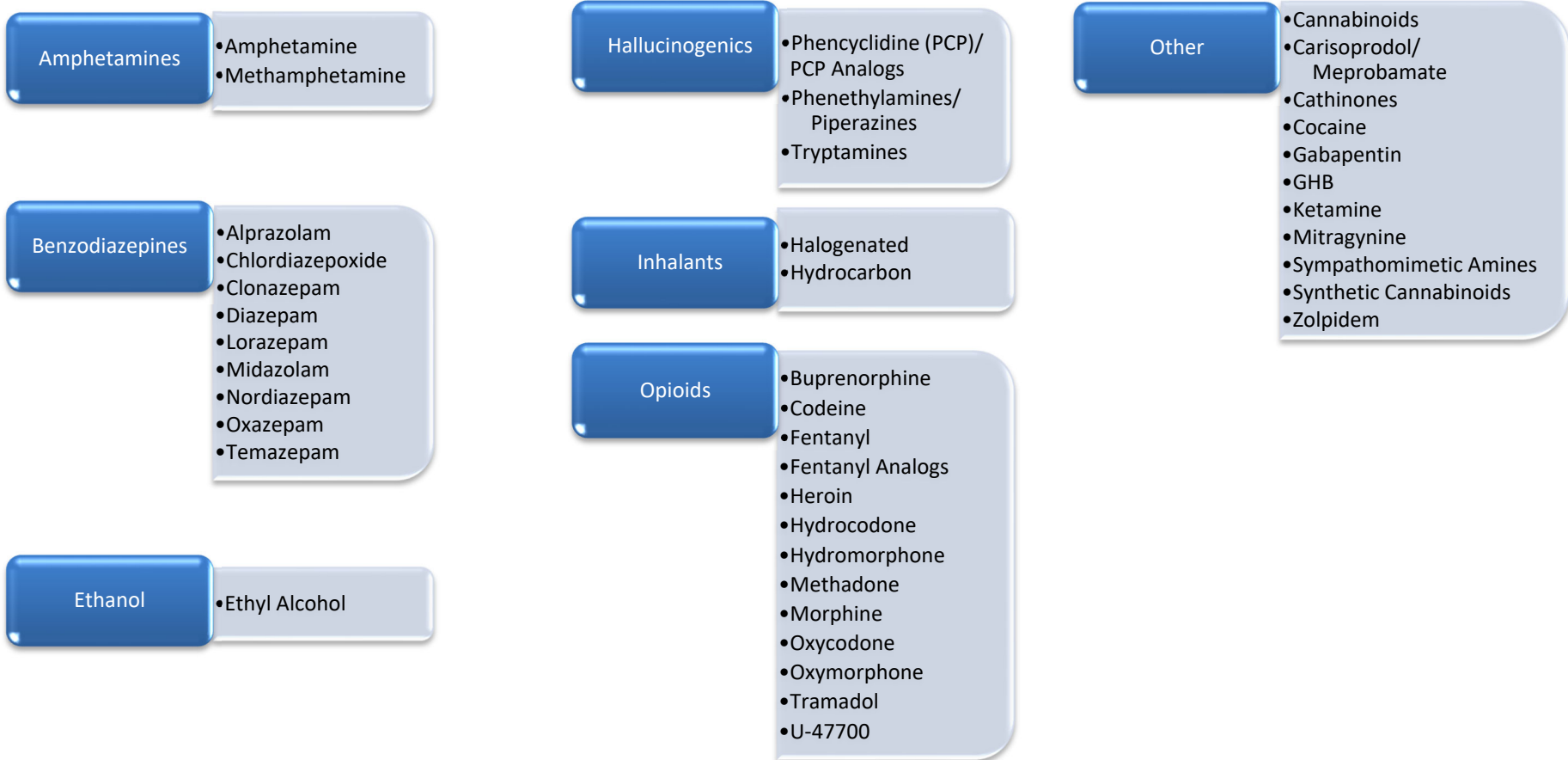
Data Collection

The State of Florida's Bureau of Vital Statistics reported 264,834 deaths in Florida during 2021. Of the 36,523 deaths investigated by Florida's medical examiners, toxicology results determined that the drugs listed below were present at the time of death in 16,138 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 16,138 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 2020 calendar year data unless otherwise noted.

- ✓ Total drug-related deaths increased by 10 percent (1,430 more).
- ✓ 8,411 opioid-related deaths were reported, which is a 7 percent increase (569 more). The opioids were identified as either the cause of death or merely present in the decedent.
- ✓ 6,442 opioid-caused deaths were reported, which is a 6 percent increase (353 more).
- ✓ 9,678 (7 percent increase, 640 more) individuals died with one or more prescription drugs in their system. The drugs were identified as either the cause of death or merely present in the decedent. These drugs may have also been mixed with illicit drugs and/or alcohol. While fentanyl is a prescription drug, data indicates that at least 92% of fentanyl occurrences were illicitly obtained.
- ✓ 6,527 (5 percent increase, 333 more) individuals died with at least one prescription drug in their system that was identified as the cause of death. These drugs may have been mixed with other prescription drugs, illicit drugs and/or alcohol.
- ✓ 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 ethyl alcohol (6,511), fentanyl (6,417), benzodiazepines (4,195, including 1,568 alprazolam occurrences), cocaine (4,015), cannabinoids (3,845), methamphetamine (2,934), fentanyl analogs (2,801), amphetamine (2,647), morphine (1,201), oxycodone (1,111) and gabapentin (1,091). 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 (5,791), cocaine (2,677), methamphetamine (2,101), ethyl alcohol (1,478), fentanyl analogs (1,152), benzodiazepines (994, including 670 alprazolam deaths), amphetamine (865) and oxycodone (504). Halogenated Inhalants (93 percent), fentanyl (90 percent), heroin (80 percent), synthetic cannabinoids (79 percent), methamphetamine (72 percent), cocaine (67 percent), cathinones (64 percent), mitragynine (61 percent), hallucinogenic phenethylamines/piperazines (55 percent) and methadone (55 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 45 percent (380 less) and deaths caused by heroin decreased by 48 percent (337 less).
- ✓ Occurrences of fentanyl increased by 10.5 percent (611 more) and deaths caused by fentanyl increased by 9 percent (489 more).
- ✓ Occurrences of fentanyl analogs increased by 41.5 percent (822 more) and deaths caused by fentanyl analogs increased by 36 percent (304 more).
- ✓ Occurrences of methadone increased by 4 percent (15 more) and deaths caused by methadone increased by 1 percent (2 more).
- ✓ Occurrences of hydrocodone increased by 2 percent (10 more) and deaths caused by hydrocodone decreased by 18 percent (32 less).

Highlights (continued)

- ✓ Occurrences of oxycodone decreased by 6 percent (76 less) and deaths caused by oxycodone decreased by 6 percent (33 less).
- ✓ Occurrences of buprenorphine increased by 1 percent (3 more) and deaths caused by buprenorphine increased by 10 percent (5 more).
- ✓ Occurrences of cocaine increased by 9 percent (340 more) and deaths caused by cocaine increased by 11.5 percent (277 more).
- ✓ Occurrences of morphine decreased by 26 percent (431 less) and deaths caused by morphine decreased by 46 percent (423 less).
- ✓ Occurrences of alprazolam decreased by 6 percent, clonazepam decreased by 12 percent, and diazepam increased by 5 percent. Alprazolam, clonazepam, and diazepam are rarely the sole cause of death, but are common as contributing to the cause of multi-drug deaths.
- ✓ Occurrences of methamphetamine increased by 41 percent (854 more) and deaths caused by methamphetamine increased by 52 percent (715 more). Occurrences of amphetamine increased by 33 percent (653 more) and deaths caused by amphetamine increased by 13 percent (97 more). In the body, methamphetamine is metabolized to amphetamine, thus many occurrences of amphetamine likely represent illicit methamphetamine ingestion rather than pharmaceutical amphetamine use.
- ✓ Occurrences of cathinones decreased by 9 percent (43 less) and deaths caused by cathinones decreased by 4 percent (12 less). The majority of the cathinones reported were eutylone.
- ✓ There were a total of 45 occurrences of difluoroethane reported in the halogenated inhalants category, which is all drug occurrences.
- ✓ Occurrences of mitragynine increased by 24 percent (59 more) and deaths caused by mitragynine increased by 13 percent (21 more).
- ✓ Occurrences of gabapentin increased by 27 percent (230 more) and deaths caused by gabapentin increased by 13 percent (21 more).
- ✓ Reporting of xylazine was not specifically requested by the Commission in 2021; however, many districts reported deaths with xylazine. A total of 236 occurrences of xylazine were reported for January – December 2021.

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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

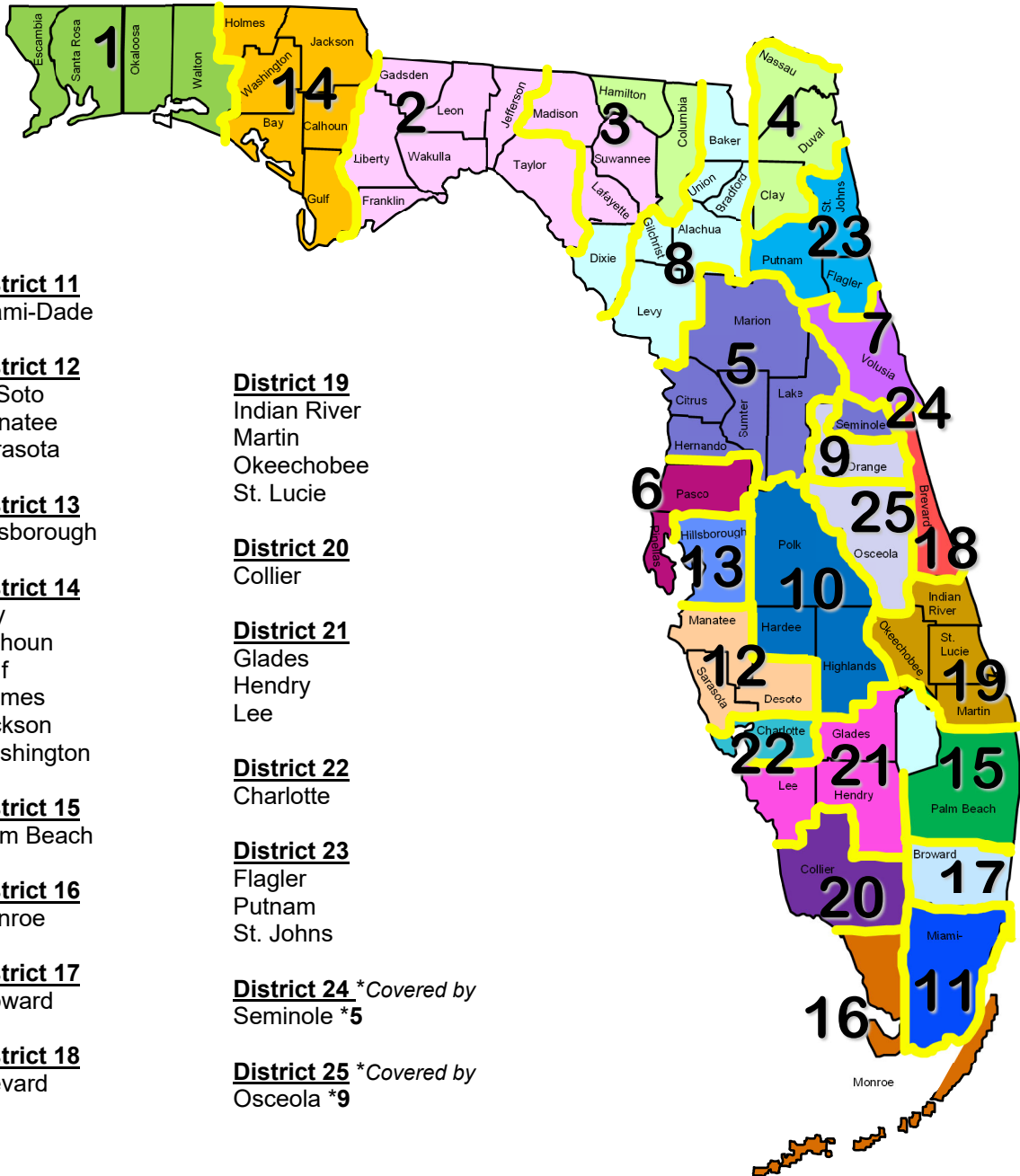
Flagler
Putnam
St. Johns

District 24 *Covered by

Seminole *5

District 25 *Covered by

Osceola *9



Summary of Drug Occurrences in Decedents 2021

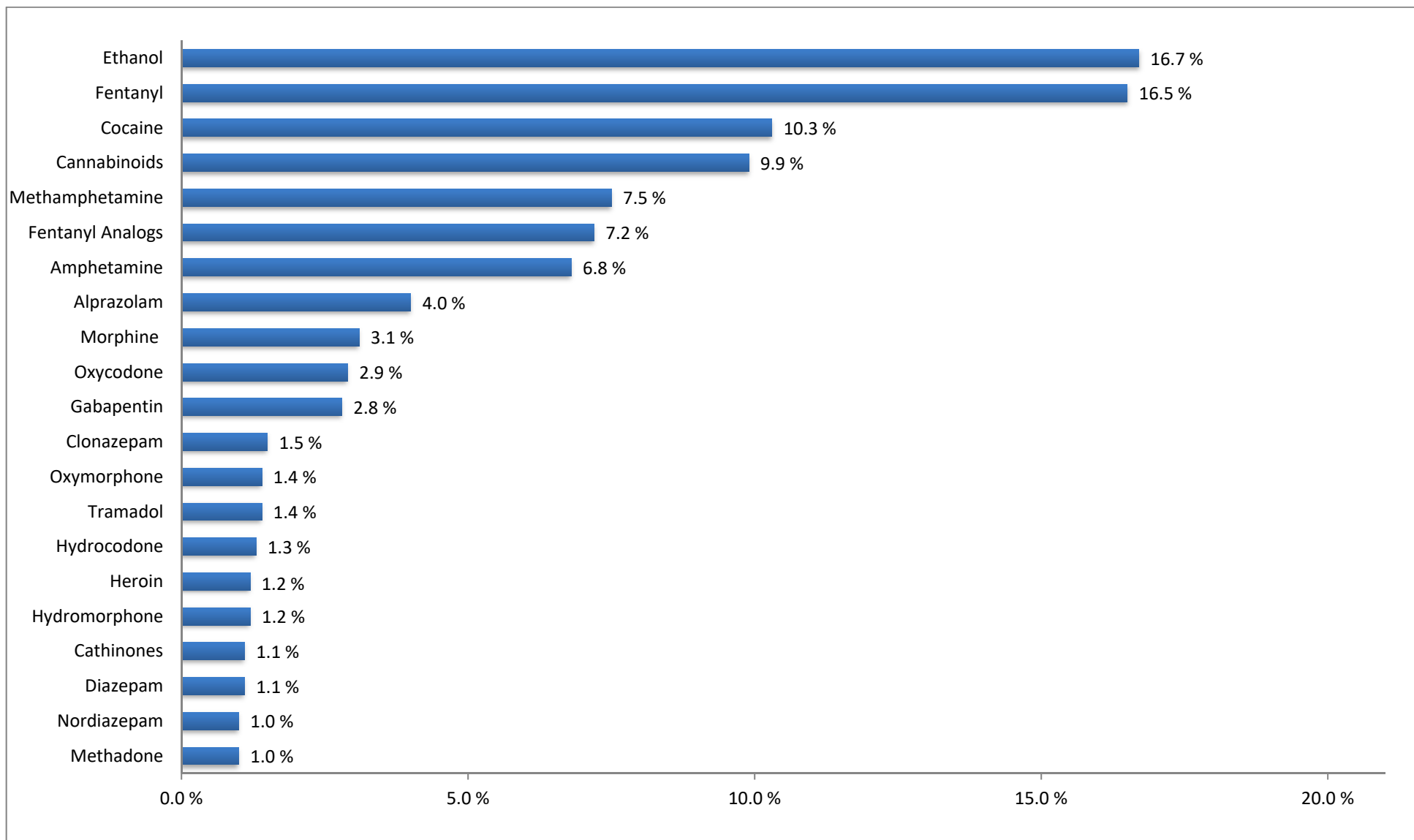
	DRUG PRESENT IN BODY	CAUSE	PRESENT	TOTAL OCCURRENCES
Amphetamines	Amphetamine	865	1,782	2,647
	Methamphetamine	2,101	833	2,934
Benzodiazepines	Alprazolam	670	898	1,568
	Chlordiazepoxide	11	54	65
	Clonazepam	88	483	571
	Diazepam	111	311	422
	Lorazepam	30	289	319
	Midazolam	5	280	285
	Nordiazepam	34	370	404
	Oxazepam	12	228	240
	Temazepam	33	288	321
Ethanol		1,478	5,033	6,511
Hallucinogenics	Phencyclidine (PCP)/PCP Analogs	0	3	3
	Phenethylamines/Piperazines	63	52	115
	Tryptamines	3	9	12
Inhalants	Halogenated	42	3	45
	Hydrocarbon	1	0	1

Summary of Drug Occurrences in Decedents (continued)

	DRUG PRESENT IN BODY	CAUSE	PRESENT	TOTAL OCCURRENCES
Opioids	Buprenorphine	57	201	258
	Codeine	24	256	280
	Fentanyl	5,791	626	6,417
	Fentanyl Analogs	1,152	1,649	2,801
	Heroin	371	93	464
	Hydrocodone	142	355	497
	Hydromorphone	101	359	460
	Methadone	212	175	387
	Morphine	493	708	1,201
	Oxycodone	504	607	1,111
	Oxymorphone	90	472	562
	Tramadol	94	447	541
	U-47700	2	0	2
Other	Cannabinoids	55	3,790	3,845
	Carisoprodol/Meprobamate	12	31	43
	Cathinones	275	155	430
	Cocaine	2,677	1,338	4,015
	GHB	2	19	21
	Gabapentin	180	911	1,091
	Ketamine	17	199	216
	Mitragynine	187	118	305
	Sympathomimetic Amines	5	20	25
	Synthetic Cannabinoids	19	5	24
	Zolpidem	47	114	161

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 2021



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 2020 to 2021

DRUG PRESENT IN BODY		2020	2021	PERCENTAGE CHANGE
Amphetamines	Amphetamine	1,994	2,647	32.7%
	Methamphetamine	2,080	2,934	41.1%
Benzodiazepines	Alprazolam	1,662	1,568	-5.7%
	Chlordiazepoxide	113	65	-42.5%
	Clonazepam	648	571	-11.9%
	Diazepam	403	422	4.7%
	Lorazepam	260	319	22.7%
	Midazolam	253	285	12.6%
	Nordiazepam	522	404	-22.6%
	Oxazepam	257	240	-6.6%
	Temazepam	287	321	11.8%
Ethanol		6,017	6,511	8.2%
Hallucinogenics	Phencyclidine (PCP) / PCP Analogs	0	3	*
	Phenethylamines/Piperazines	115	115	0.0%
	Tryptamines	8	12	*
Inhalants	Halogenated	35	45	28.6%
	Hydrocarbon	3	1	*

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

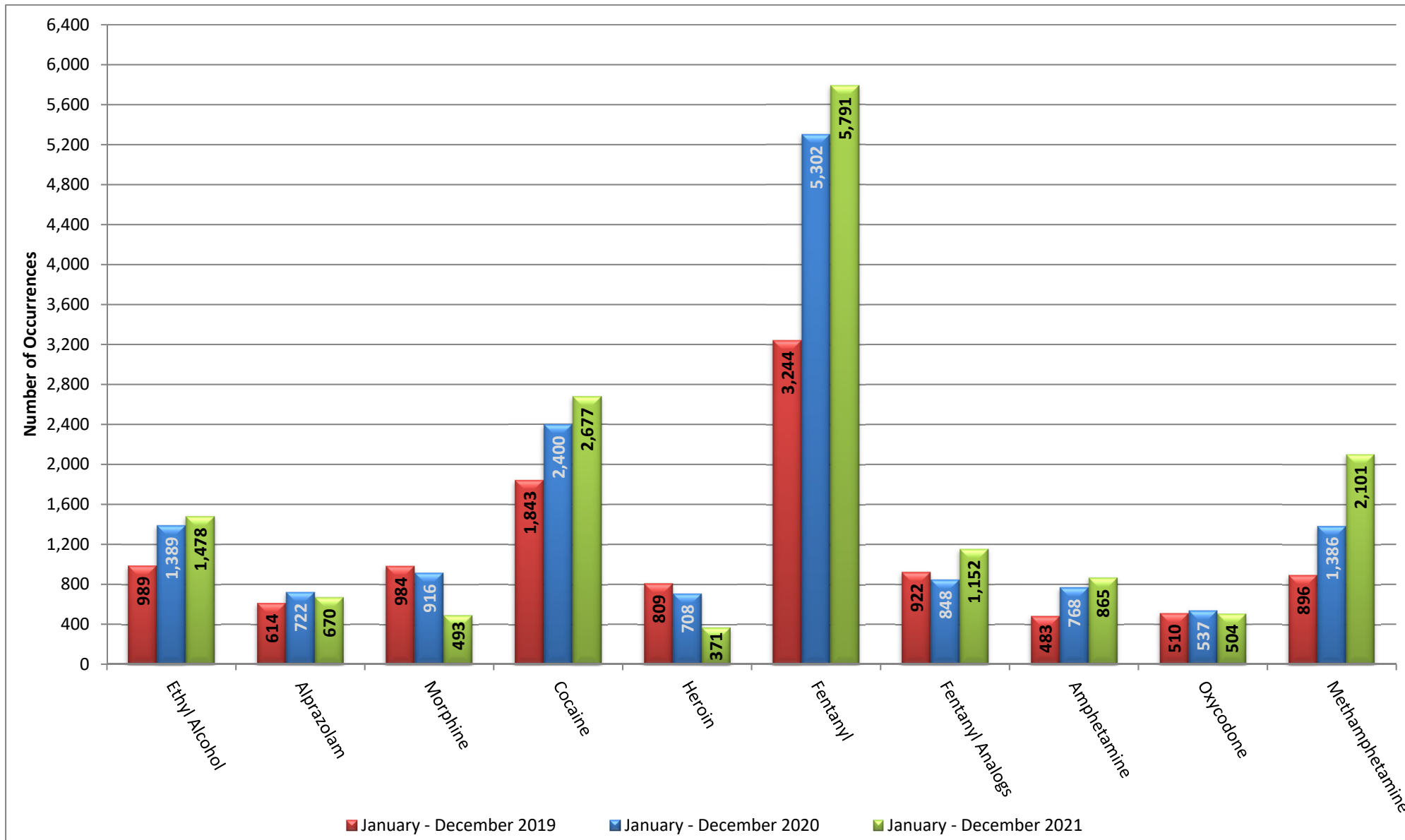
Comparison of Drug Occurrences in Decedents (continued)

DRUG PRESENT IN BODY		2020	2021	PERCENTAGE CHANGE
Opioids	Buprenorphine	255	258	1.2%
	Codeine	465	280	-39.8%
	Fentanyl	5,806	6,417	10.5%
	Fentanyl Analogs	1,979	2,801	41.5%
	Heroin	844	464	-45.0%
	Hydrocodone	487	497	2.1%
	Hydromorphone	458	460	0.4%
	Methadone	372	387	4.0%
	Morphine	1,632	1,201	-26.4%
	Oxycodone	1,187	1,111	-6.4%
	Oxymorphone	551	562	2.0%
	Tramadol	541	541	0.0%
	U-47700	3	2	*
	Other	Cannabinoids	3,442	3,845
Carisoprodol/Meprobamate		51	43	-15.7%
Cathinones		473	430	-9.1%
Cocaine		3,675	4,015	9.3%
GHB		9	21	*
Gabapentin		861	1,091	26.7%
Ketamine		159	216	35.8%
Mitragynine		246	305	24.0%
Sympathomimetic Amines		37	25	-32.4%
Synthetic Cannabinoids		46	24	-47.8%
Zolpidem		164	161	-1.8%

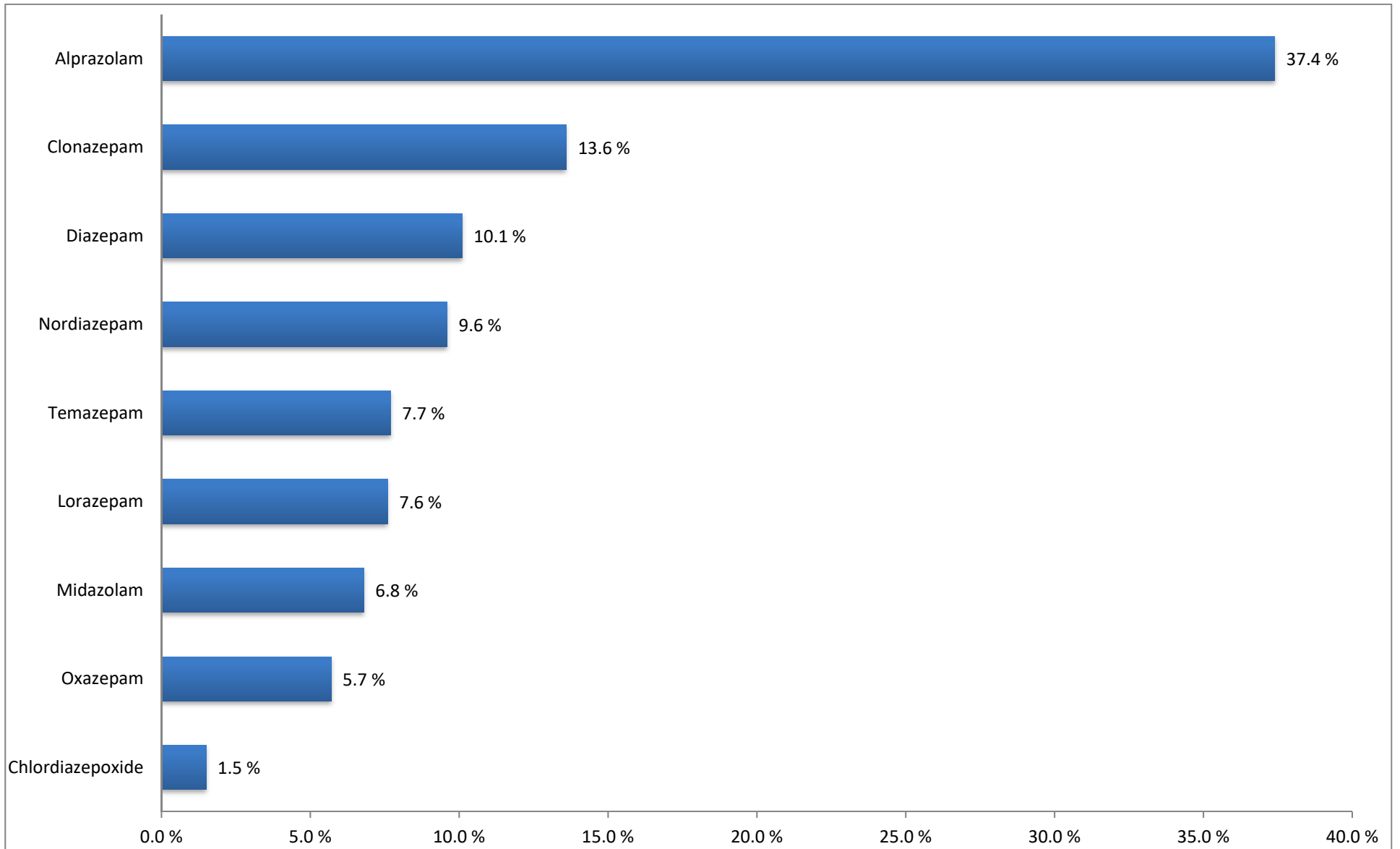
**Due to the small number of occurrences, percent changes were not calculated.*

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 2019 to 2021



Frequency of Occurrence of Benzodiazepines January – December 2021



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 2021

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
58	36	22
7	7	0
11	6	5
77	22	55
58	20	38
200	125	75
51	24	27
7	4	3
62	19	43
72	15	57
202	67	135
60	31	29
98	61	37
35	11	24
165	42	123
8	6	2
143	95	48
42	11	31
31	14	17
36	10	26
60	19	41
19	7	12
22	4	18
24	9	15
20	5	15
1,568	670	898

Deaths with Alprazolam Only		
Total	Cause	Present
4	0	4
0	0	0
2	0	2
2	0	2
1	0	1
5	0	5
2	0	2
0	0	0
2	0	2
3	0	3
10	1	9
6	1	5
6	0	6
4	0	4
6	2	4
0	0	0
12	4	8
2	0	2
2	0	2
5	0	5
4	2	2
1	0	1
2	0	2
1	0	1
0	0	0
82	10	72

Deaths with Alprazolam in Combination with Other Drugs		
Total	Cause	Present
54	36	18
7	7	0
9	6	3
75	22	53
57	20	37
195	125	70
49	24	25
7	4	3
60	19	41
69	15	54
192	66	126
54	30	24
92	61	31
31	11	20
159	40	119
8	6	2
131	91	40
40	11	29
29	14	15
31	10	21
56	17	39
18	7	11
20	4	16
23	9	14
20	5	15
1,485	660	826

Alprazolam Deaths by Age

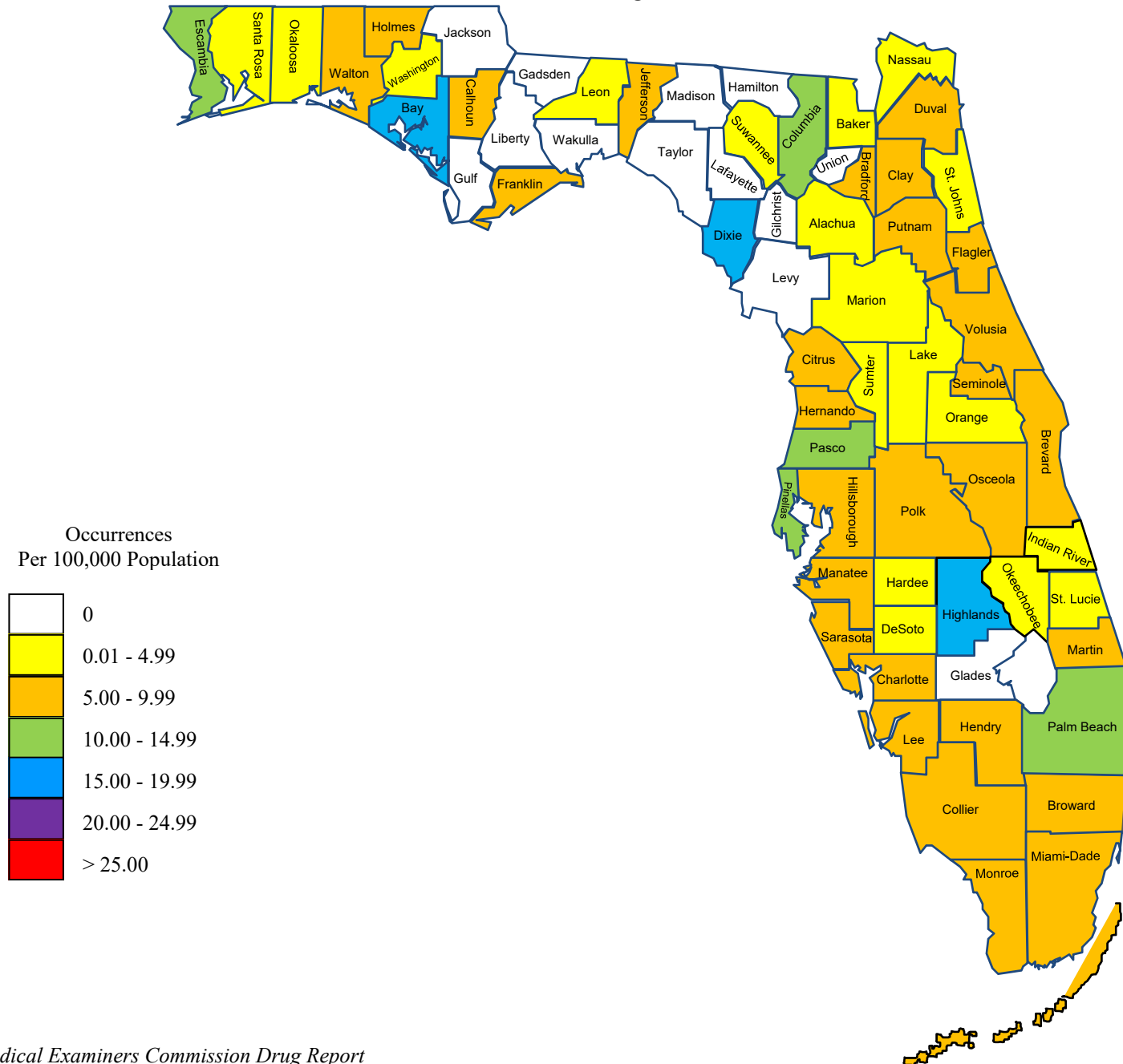
January – December 2021

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	58
2	Tallahassee	7
3	Live Oak	11
4	Jacksonville	77
5	Leesburg	58
6	St. Petersburg	200
7	Daytona Beach	51
8	Gainesville	7
9	Orlando	62
10	Lakeland	72
11	Miami	202
12	Sarasota	60
13	Tampa	98
14	Panama City	35
15	West Palm Beach	165
16	Florida Keys	8
17	Ft. Lauderdale	143
18	Melbourne	42
19	Ft. Pierce	31
20	Naples	36
21	Ft. Myers	60
22	Port Charlotte	19
23	St. Augustine	22
24	Sanford	24
25	Kissimmee	20
Statewide Totals		1,568

Alprazolam Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
36	0	2	7	13	14
7	0	0	2	1	4
6	0	0	1	3	2
22	0	1	3	7	11
20	0	0	4	10	6
125	0	3	24	60	38
24	0	0	6	8	10
4	0	0	1	3	0
19	0	1	8	8	2
15	0	1	5	7	2
67	0	9	21	16	21
31	0	2	5	16	8
61	0	3	19	25	14
11	0	2	3	4	2
42	0	4	8	17	13
6	0	0	1	3	2
95	0	3	21	32	39
11	0	0	2	6	3
14	0	0	3	6	5
10	0	1	3	4	2
19	1	0	4	6	8
7	0	0	1	6	0
4	0	0	1	2	1
9	0	0	2	2	5
5	0	1	2	1	1
670	1	33	157	266	213

Alprazolam Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
22	0	0	6	5	11
0	0	0	0	0	0
5	0	1	0	1	3
55	0	4	8	22	21
38	0	0	9	16	13
75	0	6	7	25	37
27	0	0	5	10	12
3	0	0	0	0	3
43	0	4	9	19	11
57	1	5	7	20	24
135	0	9	32	49	45
29	0	4	5	13	7
37	0	1	7	10	19
24	0	3	5	6	10
123	0	9	38	44	32
2	0	0	1	0	1
48	0	5	4	10	29
31	0	3	6	10	12
17	0	0	2	4	11
26	0	1	5	2	18
41	0	0	12	15	14
12	0	0	2	2	8
18	0	0	1	8	9
15	0	0	2	7	6
15	0	1	3	6	5
898	1	56	176	304	361

Alprazolam Deaths by County 2021



Clonazepam Deaths

January – December 2021

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
10	2	8
16	0	16
6	0	6
39	9	30
24	4	20
69	27	42
15	3	12
0	0	0
49	3	46
1	1	0
77	10	67
4	1	3
4	2	2
10	0	10
81	5	76
0	0	0
29	13	16
28	1	27
24	4	20
9	1	8
33	0	33
11	0	11
8	0	8
5	1	4
19	1	18
571	88	483

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
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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
10	2	8
16	0	16
6	0	6
39	9	30
24	4	20
69	27	42
15	3	12
0	0	0
49	3	46
1	1	0
77	10	67
4	1	3
4	2	2
10	0	10
81	5	76
0	0	0
29	13	16
28	1	27
24	4	20
9	1	8
33	0	33
11	0	11
8	0	8
5	1	4
19	1	18
571	88	483

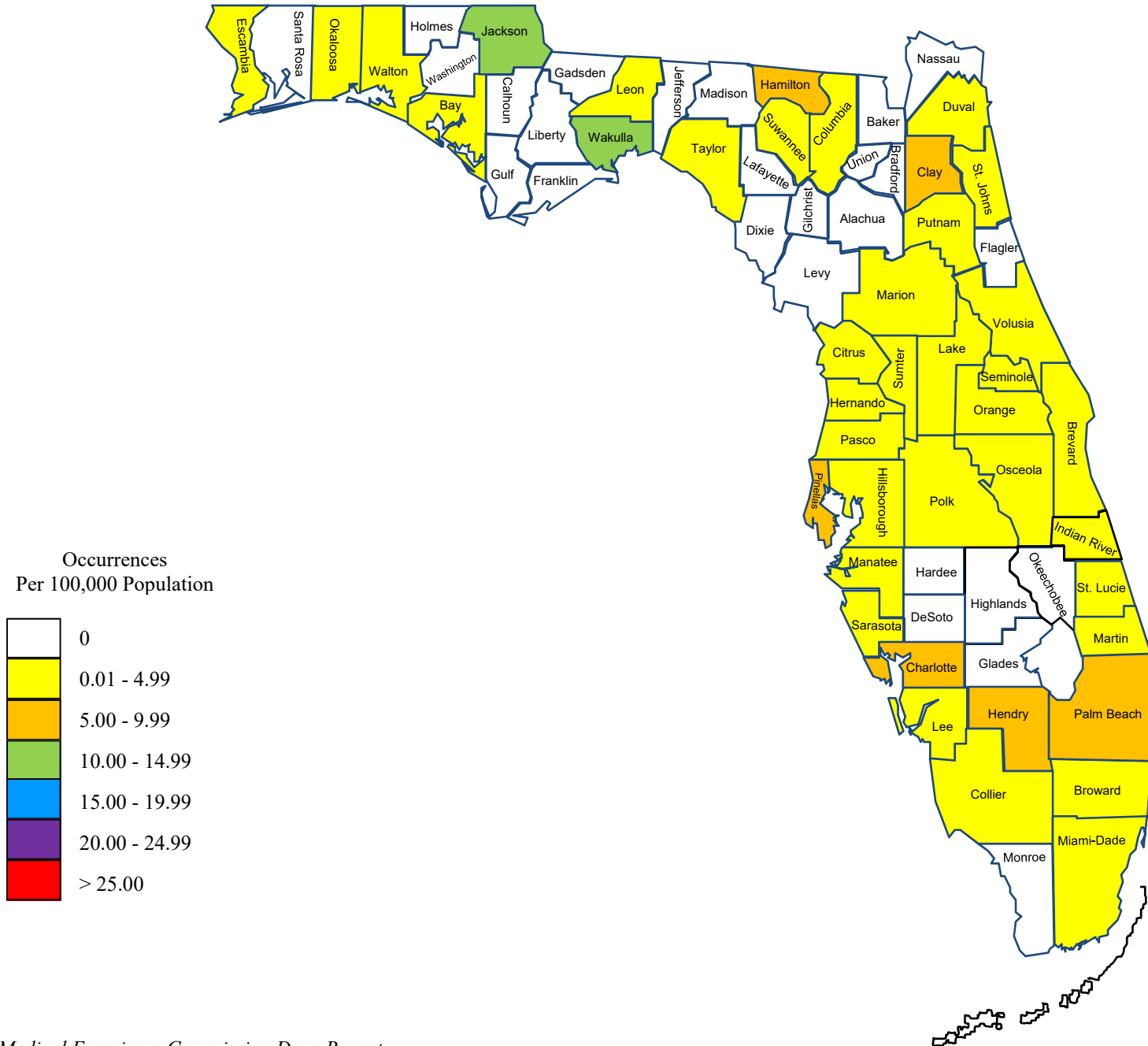
Clonazepam Deaths by Age January – December 2021

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	10
2	Tallahassee	16
3	Live Oak	6
4	Jacksonville	39
5	Leesburg	24
6	St. Petersburg	69
7	Daytona Beach	15
8	Gainesville	0
9	Orlando	49
10	Lakeland	1
11	Miami	77
12	Sarasota	4
13	Tampa	4
14	Panama City	10
15	West Palm Beach	81
16	Florida Keys	0
17	Ft. Lauderdale	29
18	Melbourne	28
19	Ft. Pierce	24
20	Naples	9
21	Ft. Myers	33
22	Port Charlotte	11
23	St. Augustine	8
24	Sanford	5
25	Kissimmee	19
Statewide Totals		571

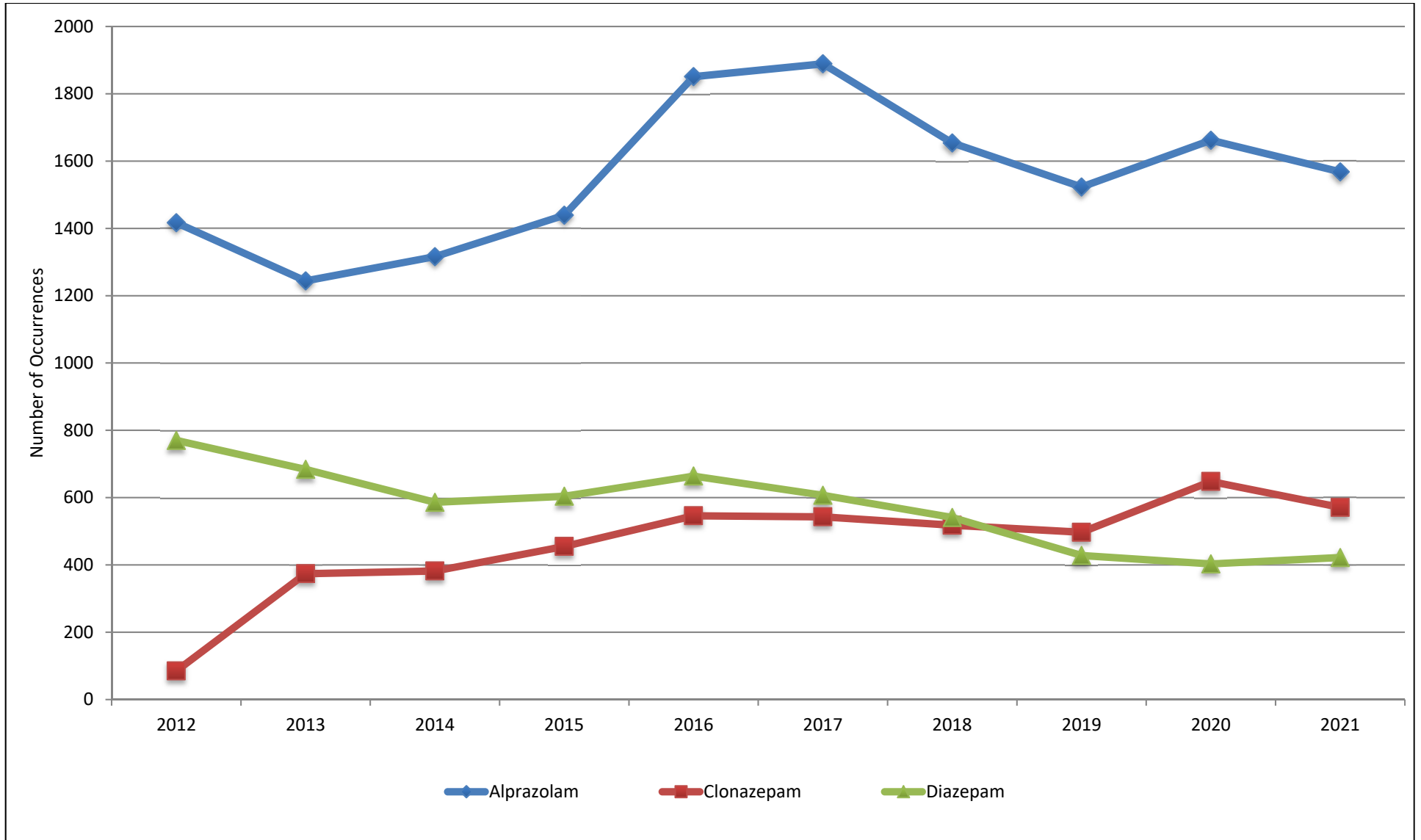
Clonazepam Caused Death					
Age of Decedent					
Total	< 18	18-25	26-34	35-50	>50
2	0	0	0	1	1
0	0	0	0	0	0
0	0	0	0	0	0
9	0	0	0	6	3
4	0	0	0	2	2
27	0	0	3	13	11
3	0	0	1	2	0
0	0	0	0	0	0
3	0	0	0	2	1
1	0	0	0	0	1
10	0	0	1	3	6
1	0	0	0	1	0
2	0	0	1	1	0
0	0	0	0	0	0
5	0	0	0	1	4
0	0	0	0	0	0
13	0	0	1	7	5
1	0	0	1	0	0
4	0	0	0	2	2
1	0	0	1	0	0
0	0	0	0	0	0
0	0	0	0	0	0
1	0	0	0	1	0
1	0	0	0	1	0
88	0	0	9	43	36

Clonazepam Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
8	0	0	3	2	3
16	0	3	1	5	7
6	0	0	1	2	3
30	0	2	7	12	9
20	0	1	5	6	8
42	0	1	11	24	6
12	0	0	2	5	5
0	0	0	0	0	0
46	0	1	12	11	22
0	0	0	0	0	0
67	0	3	16	16	32
3	0	0	0	1	2
2	0	0	0	0	2
10	0	0	3	3	4
76	0	5	17	32	22
0	0	0	0	0	0
16	0	0	1	5	10
27	0	2	2	17	6
20	0	2	4	7	7
8	0	0	0	3	5
33	0	1	2	19	11
11	0	0	2	5	4
8	0	0	2	4	2
4	0	0	0	1	3
18	0	1	2	9	6
483	0	22	93	189	179

Clonazepam Deaths by County 2021



Historical Overview of Alprazolam, Clonazepam and Diazepam Occurrences (Present and Cause) 2012 to 2021



Oxycodone Deaths

January – December 2021

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
51	23	28
11	6	5
20	6	14
89	31	58
58	27	31
138	80	58
36	25	11
20	9	11
27	16	11
28	11	17
88	25	63
54	25	29
71	37	34
16	4	12
126	57	69
5	3	2
72	39	33
45	23	22
29	14	15
25	6	19
44	18	26
19	7	12
16	4	12
13	4	9
10	4	6
1,111	504	607

Deaths with Oxycodone Only		
Total	Cause	Present
3	0	3
0	0	0
1	0	1
4	0	4
3	0	3
7	2	5
2	1	1
2	2	0
2	0	2
4	2	2
3	0	3
7	2	5
4	0	4
2	0	2
4	2	2
1	0	1
11	2	9
1	0	1
5	1	4
1	0	1
2	0	2
0	0	0
0	0	0
0	0	0
1	0	1
70	14	56

Deaths with Oxycodone in Combination with Other Drugs		
Total	Cause	Present
48	23	25
11	6	5
19	6	13
85	31	54
55	27	28
131	78	53
34	24	10
18	7	11
25	16	9
24	9	15
85	25	60
47	23	24
67	37	30
14	4	10
122	55	67
4	3	1
61	37	24
44	23	21
24	13	11
24	6	18
42	18	24
19	7	12
16	4	12
13	4	9
9	4	5
1,041	490	551

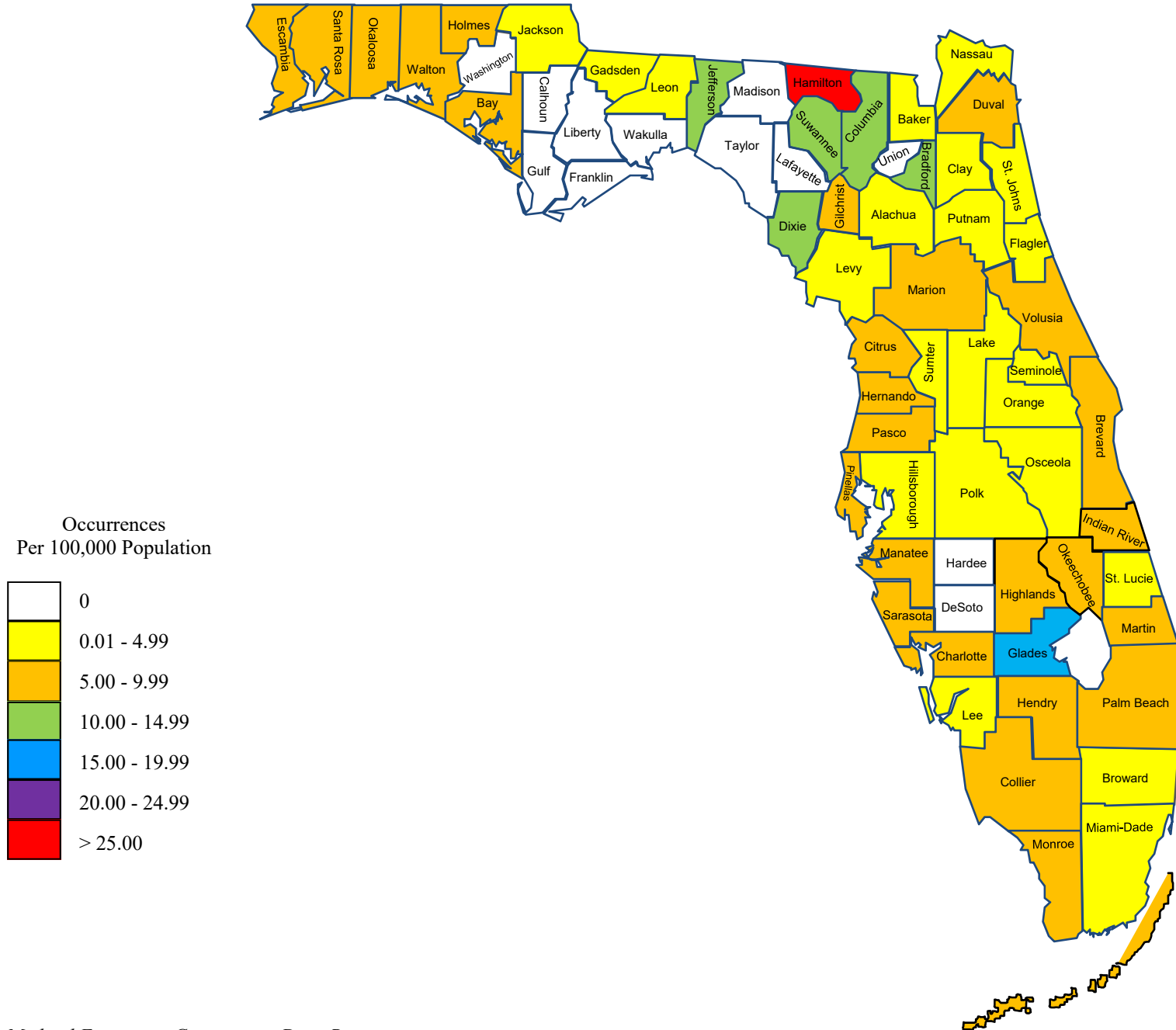
Oxycodone Deaths by Age January – December 2021

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	51
2	Tallahassee	11
3	Live Oak	20
4	Jacksonville	89
5	Leesburg	58
6	St. Petersburg	138
7	Daytona Beach	36
8	Gainesville	20
9	Orlando	27
10	Lakeland	28
11	Miami	88
12	Sarasota	54
13	Tampa	71
14	Panama City	16
15	West Palm Beach	126
16	Florida Keys	5
17	Ft. Lauderdale	72
18	Melbourne	45
19	Ft. Pierce	29
20	Naples	25
21	Ft. Myers	44
22	Port Charlotte	19
23	St. Augustine	16
24	Sanford	13
25	Kissimmee	10
Statewide Totals		1,111

Oxycodone Caused Death					
Age of Decedent					
Total	< 18	18-25	26-34	35-50	>50
23	0	0	2	6	15
6	0	0	1	1	4
6	0	0	0	1	5
31	0	1	6	9	15
27	0	1	4	10	12
80	0	0	12	28	40
25	0	0	4	13	8
9	0	0	1	1	7
16	0	2	2	8	4
11	0	0	2	6	3
25	0	2	5	12	6
25	0	0	0	7	18
37	0	0	9	9	19
4	0	0	1	2	1
57	1	0	10	22	24
3	0	0	0	1	2
39	1	1	8	13	16
23	0	0	2	7	14
14	0	0	2	5	7
6	0	0	0	2	4
18	0	0	3	7	8
7	0	0	1	2	4
4	0	0	0	2	2
4	0	0	1	1	2
4	0	0	0	4	0
504	2	7	76	179	240

Oxycodone Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
28	0	0	2	7	19
5	0	1	1	2	1
14	0	0	3	4	7
58	0	2	12	17	27
31	0	1	8	5	17
58	1	2	1	17	37
11	0	1	2	5	3
11	0	0	1	2	8
11	0	2	3	0	6
17	0	2	3	4	8
63	0	9	17	15	22
29	0	1	5	8	15
34	0	4	1	9	20
12	0	2	1	3	6
69	1	11	17	17	23
2	0	0	1	1	0
33	0	3	3	7	20
22	0	0	2	11	9
15	0	0	0	0	15
19	0	0	1	4	14
26	0	2	5	5	14
12	0	0	0	6	6
12	0	2	2	0	8
9	0	1	2	2	4
6	0	0	1	3	2
607	2	46	94	154	311

Oxycodone Deaths by County 2021



Hydrocodone Deaths

January – December 2021

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
47	16	31
14	2	12
11	5	6
47	17	30
20	8	12
43	15	28
23	5	18
4	0	4
33	9	24
17	2	15
9	0	9
18	5	13
34	13	21
19	5	14
30	6	24
0	0	0
19	8	11
32	4	28
17	4	13
6	2	4
19	4	15
7	2	5
13	7	6
8	2	6
7	1	6
497	142	355

Deaths with Hydrocodone Only		
Total	Cause	Present
14	0	14
1	0	1
0	0	0
6	1	5
2	0	2
7	1	6
1	0	1
3	0	3
10	0	10
0	0	0
0	0	0
4	0	4
6	1	5
3	0	3
2	0	2
0	0	0
2	0	2
7	0	7
4	0	4
1	0	1
6	0	6
0	0	0
2	1	1
0	0	0
2	0	2
83	4	79

Deaths with Hydrocodone in Combination with Other Drugs		
Total	Cause	Present
33	16	17
13	2	11
11	5	6
41	16	25
18	8	10
36	14	22
22	5	17
1	0	1
23	9	14
17	2	15
9	0	9
14	5	9
28	12	16
16	5	11
28	6	22
0	0	0
17	8	9
25	4	21
13	4	9
5	2	3
13	4	9
7	2	5
11	6	5
8	2	6
5	1	4
414	138	276

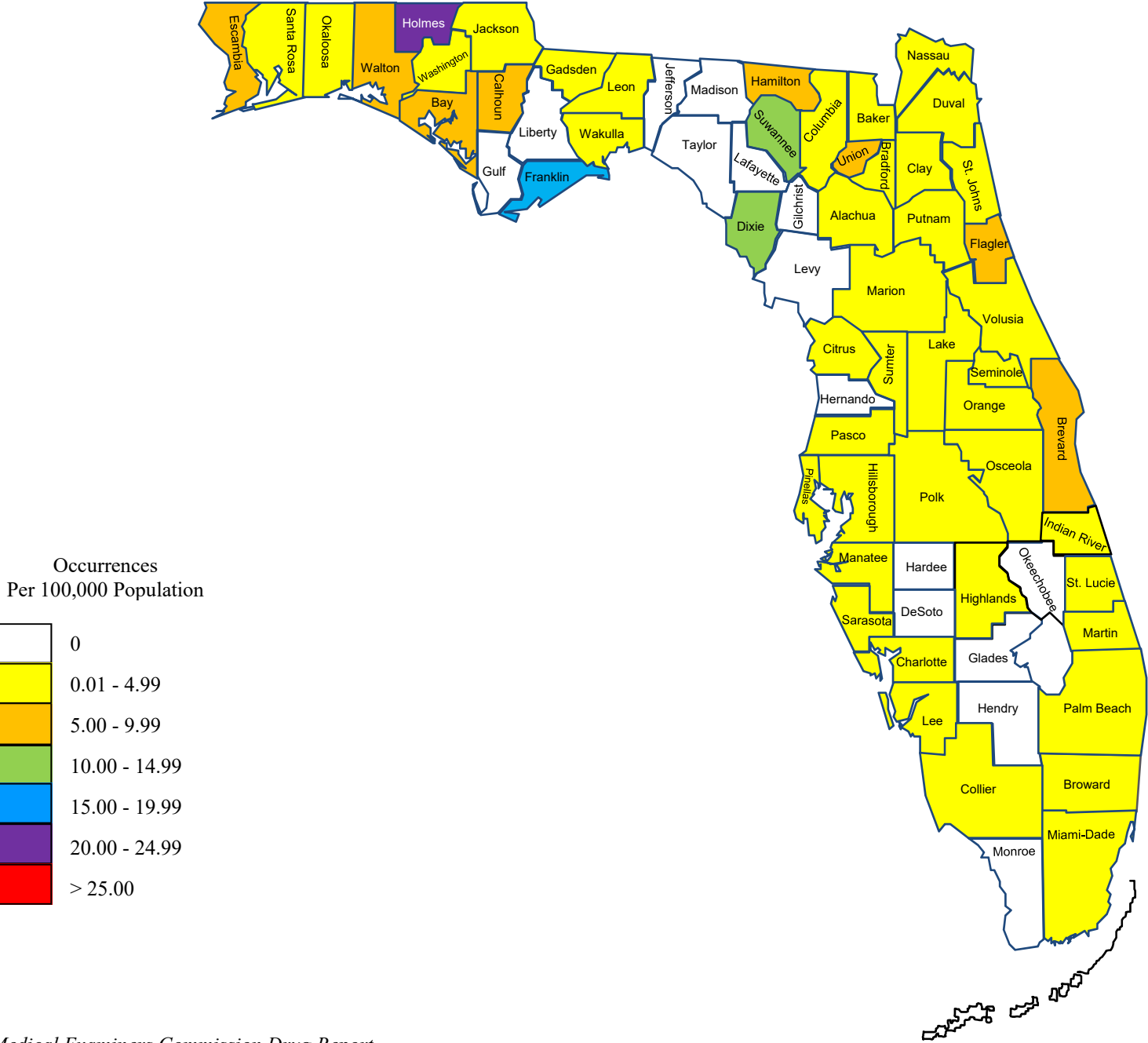
Hydrocodone Deaths by Age January – December 2021

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	47
2	Tallahassee	14
3	Live Oak	11
4	Jacksonville	47
5	Leesburg	20
6	St. Petersburg	43
7	Daytona Beach	23
8	Gainesville	4
9	Orlando	33
10	Lakeland	17
11	Miami	9
12	Sarasota	18
13	Tampa	34
14	Panama City	19
15	West Palm Beach	30
16	Florida Keys	0
17	Ft. Lauderdale	19
18	Melbourne	32
19	Ft. Pierce	17
20	Naples	6
21	Ft. Myers	19
22	Port Charlotte	7
23	St. Augustine	13
24	Sanford	8
25	Kissimmee	7
Statewide Totals		497

Hydrocodone Caused Death					
Age of Decedent					
Total	< 18	18-25	26-34	35-50	>50
16	1	0	1	4	10
2	0	0	1	1	0
5	0	0	0	2	3
17	0	1	1	5	10
8	0	0	0	5	3
15	0	0	2	7	6
5	0	0	0	2	3
0	0	0	0	0	0
9	0	0	3	3	3
2	0	0	0	1	1
0	0	0	0	0	0
5	0	0	0	1	4
13	0	0	1	3	9
5	0	0	1	1	3
6	0	0	2	1	3
0	0	0	0	0	0
8	0	0	0	3	5
4	0	0	1	0	3
4	0	0	1	0	3
2	0	0	1	0	1
4	0	0	0	2	2
2	0	0	1	1	0
7	0	0	0	1	6
2	0	1	1	0	0
1	0	0	0	1	0
142	1	2	17	44	78

Hydrocodone Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
31	0	0	2	10	19
12	0	0	2	3	7
6	0	0	1	3	2
30	0	0	4	9	17
12	0	1	0	3	8
28	0	0	1	7	20
18	0	1	1	2	14
4	0	0	0	0	4
24	0	2	0	3	19
15	0	2	3	4	6
9	0	2	0	2	5
13	0	2	1	2	8
21	0	0	2	2	17
14	0	0	1	4	9
24	0	1	3	6	14
0	0	0	0	0	0
11	0	0	1	3	7
28	0	1	3	9	15
13	0	0	0	2	11
4	0	0	0	1	3
15	0	0	0	4	11
5	0	0	1	0	4
6	0	0	3	1	2
6	0	0	1	2	3
6	0	0	0	2	4
355	0	12	30	84	229

Hydrocodone Deaths by County 2021



Methadone Deaths

January – December 2021

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
14	7	7
6	6	0
3	2	1
29	21	8
26	13	13
64	51	13
14	10	4
15	6	9
27	9	18
10	4	6
10	2	8
20	11	9
33	18	15
6	2	4
27	16	11
0	0	0
21	10	11
16	4	12
9	4	5
6	3	3
11	4	7
4	2	2
6	3	3
2	1	1
8	3	5
387	212	175

Deaths with Methadone Only		
Total	Cause	Present
3	1	2
0	0	0
1	0	1
5	3	2
5	0	5
6	3	3
1	0	1
3	1	2
3	2	1
1	0	1
0	0	0
2	1	1
9	5	4
1	0	1
1	0	1
0	0	0
3	1	2
2	0	2
0	0	0
0	0	0
0	0	0
0	0	0
1	0	1
0	0	0
2	0	2
49	17	32

Deaths with Methadone in Combination with Other Drugs		
Total	Cause	Present
11	6	5
6	6	0
2	2	0
24	18	6
21	13	8
58	48	10
13	10	3
12	5	7
24	7	17
9	4	5
10	2	8
18	10	8
24	13	11
5	2	3
26	16	10
0	0	0
18	9	9
14	4	10
9	4	5
6	3	3
11	4	7
4	2	2
5	3	2
2	1	1
6	3	3
338	195	143

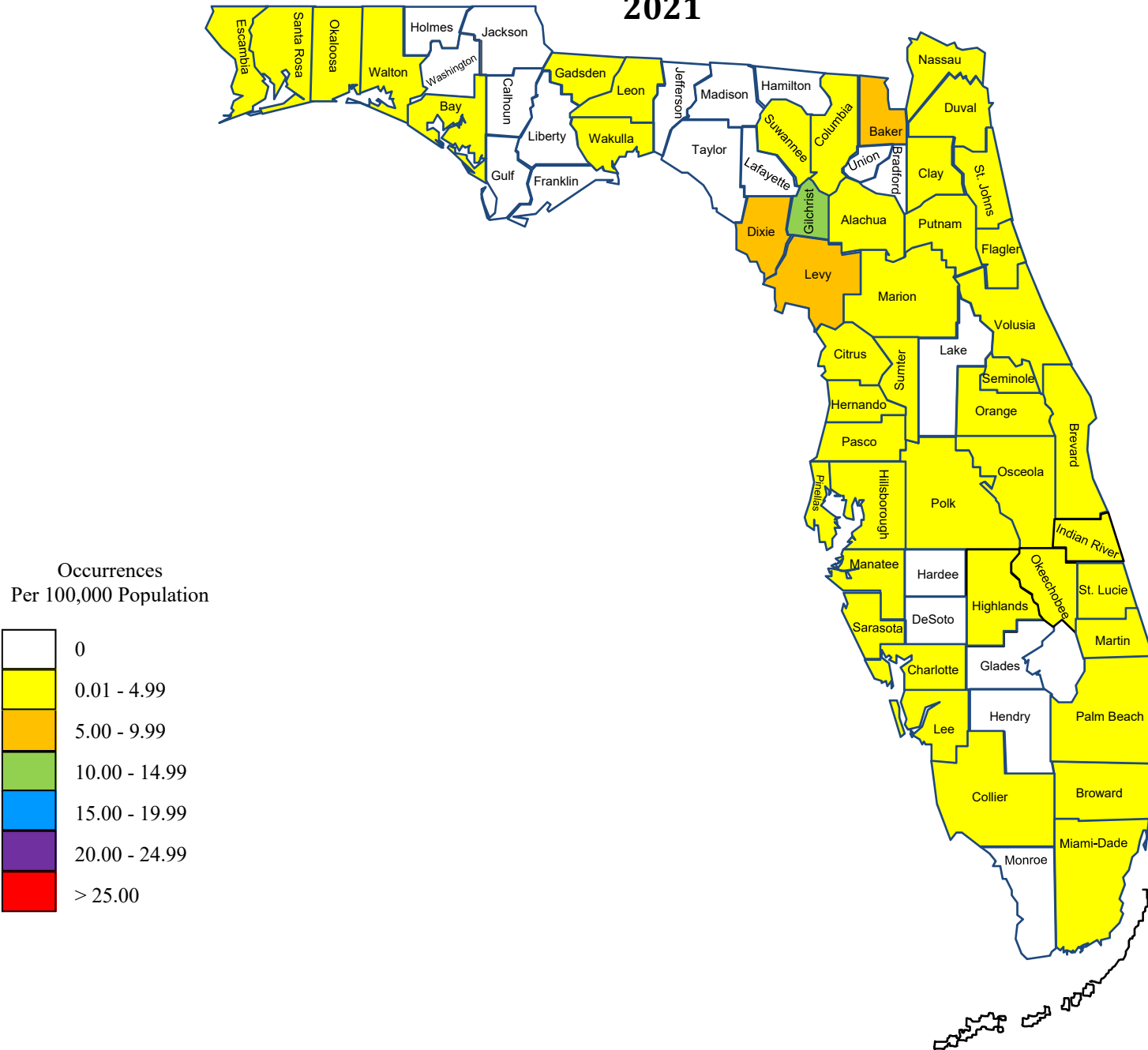
Methadone Deaths by Age January – December 2021

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	14
2	Tallahassee	6
3	Live Oak	3
4	Jacksonville	29
5	Leesburg	26
6	St. Petersburg	64
7	Daytona Beach	14
8	Gainesville	15
9	Orlando	27
10	Lakeland	10
11	Miami	10
12	Sarasota	20
13	Tampa	33
14	Panama City	6
15	West Palm Beach	27
16	Florida Keys	0
17	Ft. Lauderdale	21
18	Melbourne	16
19	Ft. Pierce	9
20	Naples	6
21	Ft. Myers	11
22	Port Charlotte	4
23	St. Augustine	6
24	Sanford	2
25	Kissimmee	8
Statewide Totals		387

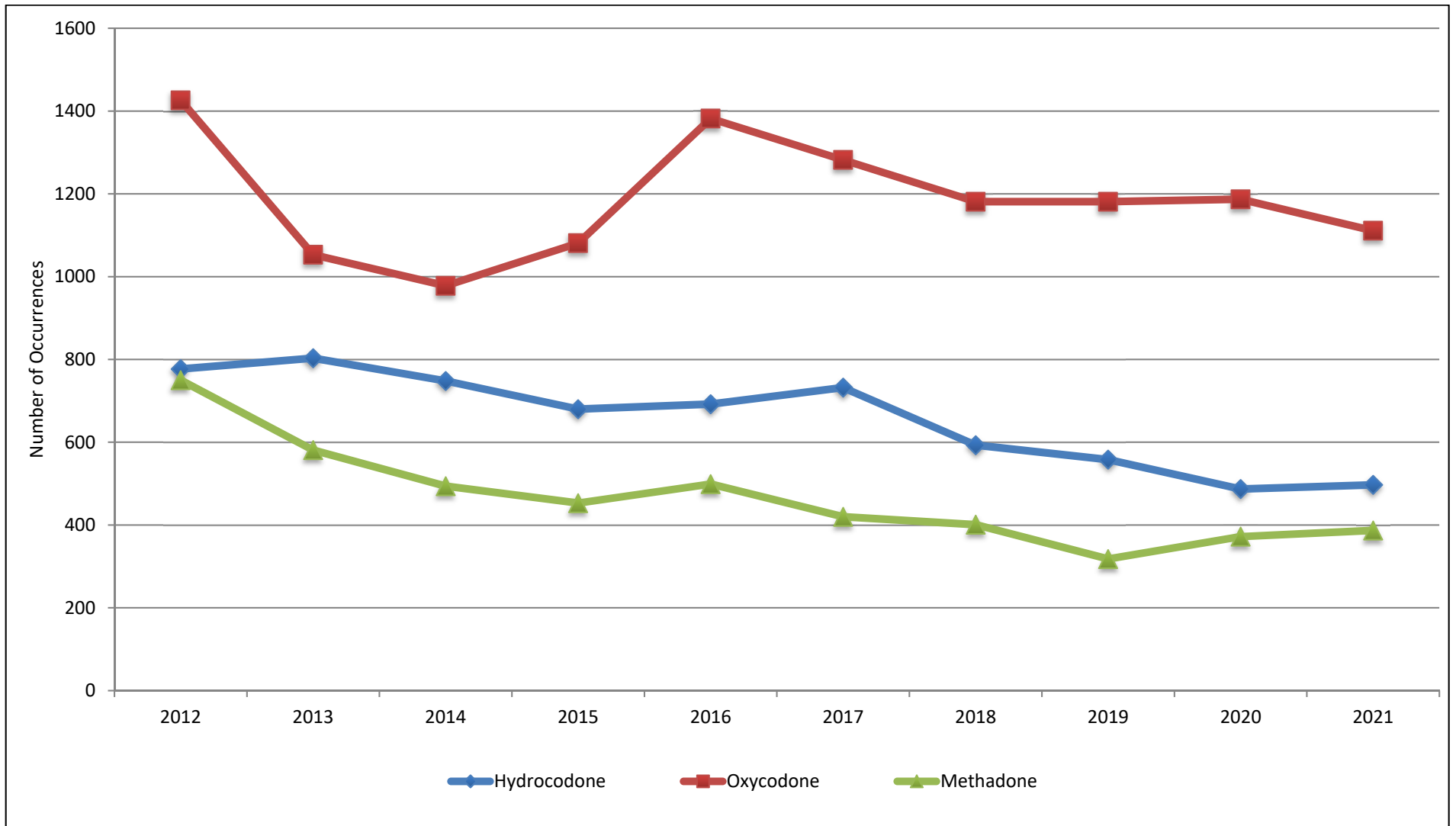
Methadone Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
7	0	0	1	4	2
6	1	1	2	2	0
2	0	0	0	2	0
21	1	0	3	10	7
13	0	0	2	6	5
51	0	0	4	29	18
10	0	0	3	5	2
6	0	0	0	3	3
9	0	1	1	4	3
4	0	0	1	2	1
2	0	0	0	0	2
11	0	1	1	6	3
18	0	0	7	5	6
2	0	0	0	0	2
16	0	1	2	8	5
0	0	0	0	0	0
10	0	0	0	3	7
4	0	0	1	2	1
4	0	0	0	2	2
3	0	1	0	0	2
4	0	0	1	1	2
2	0	0	1	1	0
3	1	0	0	2	0
1	0	0	0	0	1
3	0	0	0	1	2
212	3	5	30	98	76

Methadone Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
7	0	0	1	2	4
0	0	0	0	0	0
1	0	0	1	0	0
8	0	0	2	2	4
13	0	0	1	4	8
13	1	0	1	3	8
4	0	0	0	3	1
9	0	0	0	5	4
18	0	2	4	10	2
6	0	1	1	1	3
8	0	1	0	3	4
9	0	0	4	2	3
15	0	0	0	5	10
4	0	0	2	1	1
11	0	0	1	5	5
0	0	0	0	0	0
11	0	0	1	4	6
12	1	1	1	7	2
5	0	0	1	1	3
3	0	0	0	2	1
7	0	0	1	2	4
2	0	0	0	1	1
3	0	0	0	2	1
1	0	0	0	1	0
5	0	1	0	2	2
175	2	6	22	68	77

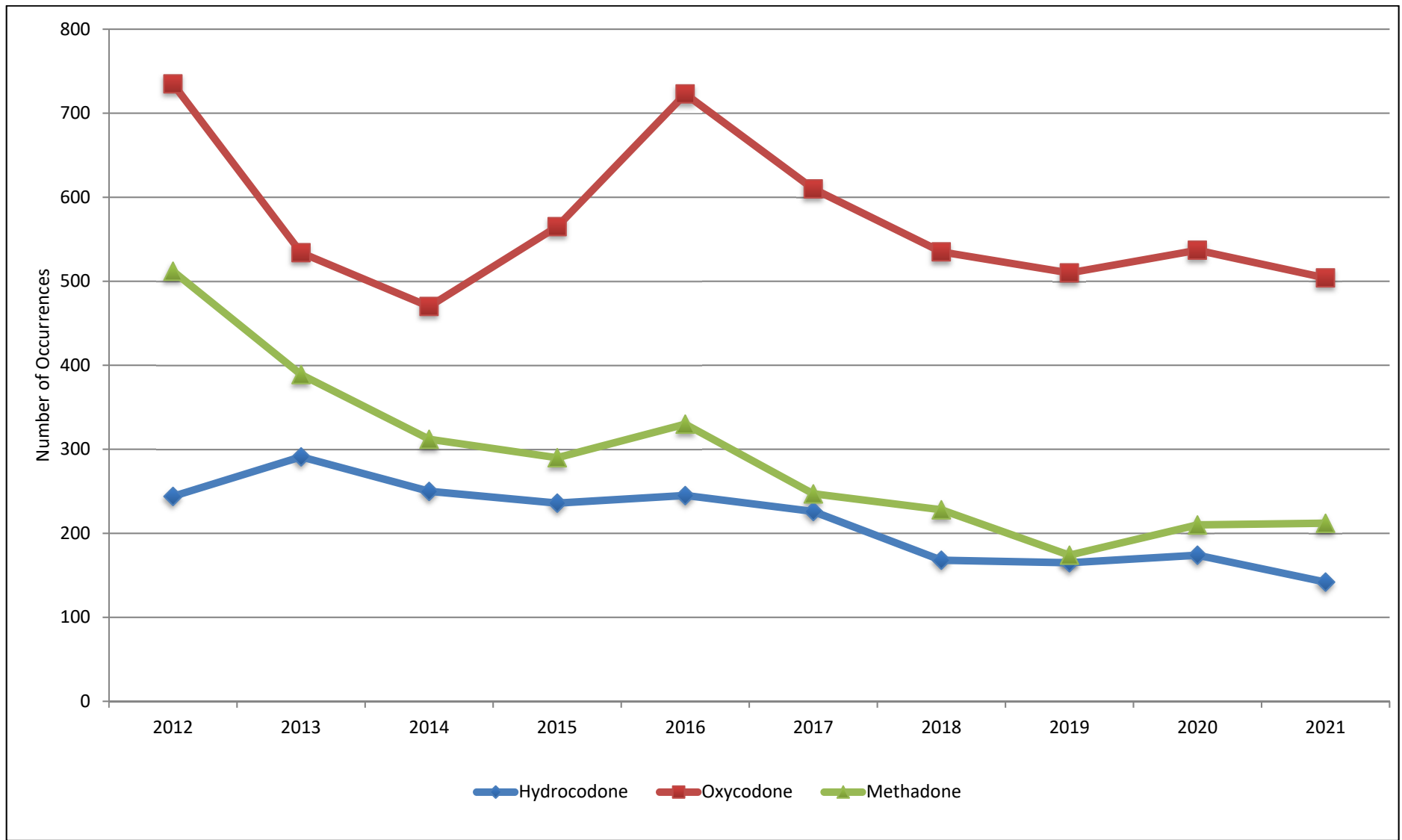
Methadone Deaths by County 2021



Historical Overview of Hydrocodone, Oxycodone, and Methadone Occurrences (Present and Cause) 2012 to 2021



Historical Overview of Deaths Caused by Hydrocodone, Oxycodone, and Methadone 2012 to 2021



Morphine Deaths

January – December 2021

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
89	16	73
21	6	15
8	1	7
29	18	11
58	42	16
92	35	57
52	28	24
14	6	8
99	26	73
34	7	27
63	22	41
24	7	17
114	74	40
27	3	24
162	47	115
3	2	1
91	61	30
43	21	22
23	12	11
29	19	10
37	15	22
36	6	30
14	4	10
12	6	6
27	9	18
1,201	493	708

Deaths with Morphine Only		
Total	Cause	Present
5	0	5
0	0	0
0	0	0
1	0	1
3	0	3
4	0	4
3	1	2
2	1	1
16	1	15
5	0	5
4	0	4
0	0	0
12	1	11
2	0	2
3	0	3
0	0	0
4	0	4
2	0	2
4	0	4
0	0	0
3	0	3
2	0	2
2	0	2
1	0	1
4	0	4
82	4	78

Deaths with Morphine in Combination with Other Drugs		
Total	Cause	Present
84	16	68
21	6	15
8	1	7
28	18	10
55	42	13
88	35	53
49	27	22
12	5	7
83	25	58
29	7	22
59	22	37
24	7	17
102	73	29
25	3	22
159	47	112
3	2	1
87	61	26
41	21	20
19	12	7
29	19	10
34	15	19
34	6	28
12	4	8
11	6	5
23	9	14
1,119	489	630

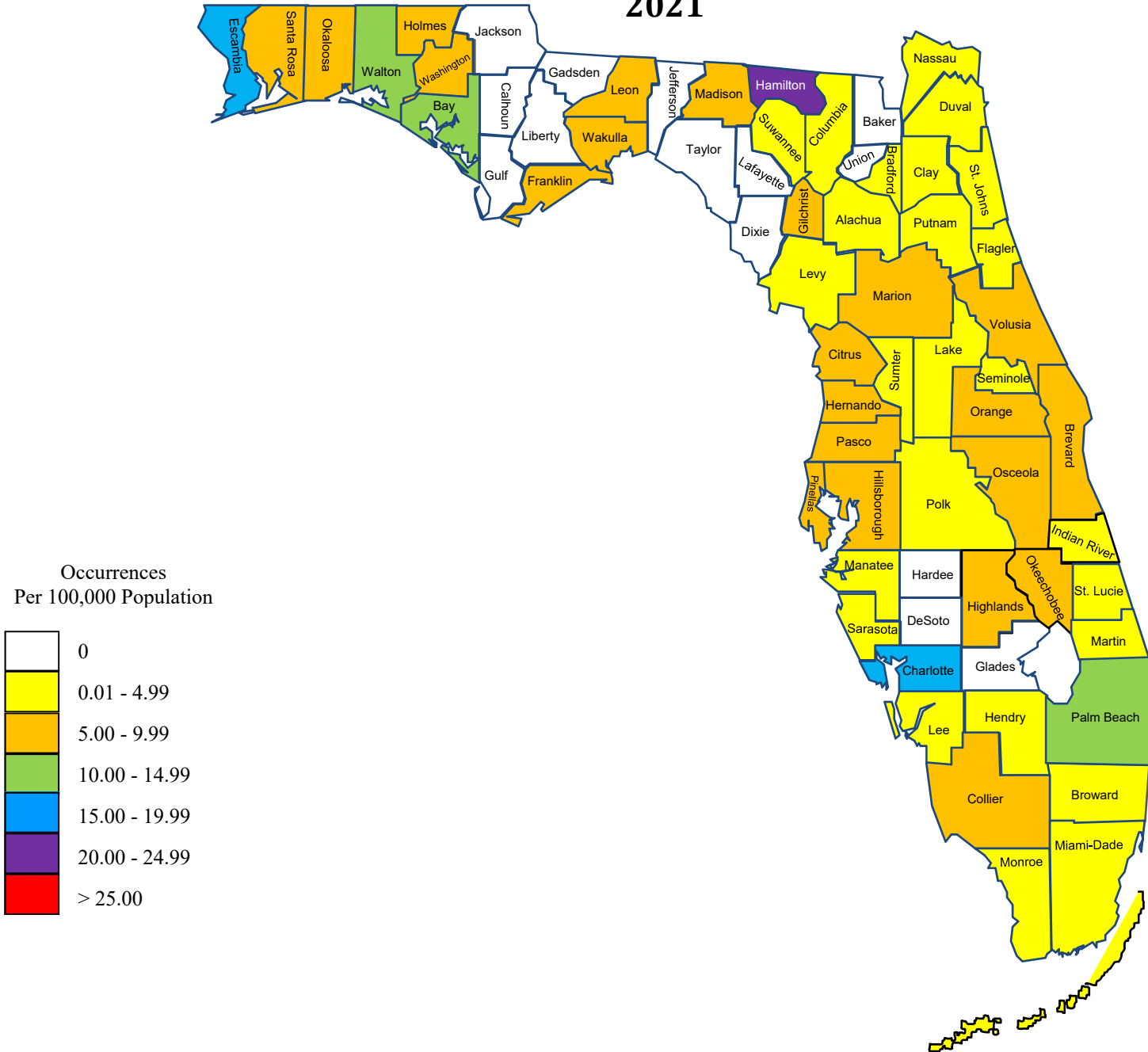
Morphine Deaths by Age January – December 2021

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	89
2	Tallahassee	21
3	Live Oak	8
4	Jacksonville	29
5	Leesburg	58
6	St. Petersburg	92
7	Daytona Beach	52
8	Gainesville	14
9	Orlando	99
10	Lakeland	34
11	Miami	63
12	Sarasota	24
13	Tampa	114
14	Panama City	27
15	West Palm Beach	162
16	Florida Keys	3
17	Ft. Lauderdale	91
18	Melbourne	43
19	Ft. Pierce	23
20	Naples	29
21	Ft. Myers	37
22	Port Charlotte	36
23	St. Augustine	14
24	Sanford	12
25	Kissimmee	27
Statewide Totals		1,201

Morphine Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
16	0	2	4	8	2
6	0	0	1	2	3
1	0	0	0	0	1
18	0	0	2	7	9
42	0	3	10	11	18
35	0	1	5	11	18
28	0	0	9	8	11
6	1	0	1	0	4
26	1	2	6	10	7
7	0	0	0	5	2
22	0	3	6	7	6
7	0	0	0	4	3
74	0	4	16	30	24
3	0	0	0	2	1
47	0	2	18	17	10
2	0	0	0	0	2
61	0	3	11	29	18
21	0	0	3	10	8
12	0	0	6	4	2
19	0	1	3	9	6
15	0	0	1	9	5
6	0	0	0	4	2
4	0	0	1	1	2
6	0	0	1	1	4
9	0	0	0	6	3
493	2	21	104	195	171

Morphine Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
73	0	2	16	25	30
15	1	0	3	6	5
7	0	0	0	2	5
11	1	0	0	4	6
16	0	2	0	5	9
57	0	1	5	19	32
24	0	0	2	18	4
8	0	0	2	1	5
73	1	1	2	6	63
27	0	1	3	12	11
41	0	1	4	13	23
17	0	1	4	4	8
40	1	4	7	9	19
24	0	0	4	10	10
115	0	15	23	41	36
1	0	0	0	1	0
30	1	0	4	4	21
22	0	1	2	6	13
11	0	0	0	0	11
10	0	0	3	2	5
22	0	0	4	4	14
30	0	0	3	3	24
10	0	0	0	3	7
6	0	1	0	3	2
18	0	1	1	3	13
708	5	31	92	204	376

Morphine Deaths by County 2021



Fentanyl Deaths

January – December 2021

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
339	294	45
49	32	17
18	16	2
560	496	64
312	289	23
654	624	30
302	289	13
53	45	8
521	428	93
149	137	12
331	299	32
263	246	17
437	410	27
95	80	15
547	479	68
26	22	4
611	568	43
272	243	29
142	127	15
102	95	7
306	284	22
40	34	6
67	62	5
83	76	7
138	116	22
6,417	5,791	626

Deaths with Fentanyl Only		
Total	Cause	Present
25	17	8
6	0	6
3	2	1
39	36	3
36	32	4
62	60	2
5	2	3
4	3	1
44	27	17
13	12	1
5	2	3
19	15	4
45	42	3
11	4	7
14	7	7
2	0	2
20	15	5
7	5	2
11	8	3
0	0	0
9	5	4
0	0	0
1	1	0
6	6	0
10	9	1
397	310	87

Deaths with Fentanyl in Combination with Other Drugs		
Total	Cause	Present
314	277	37
43	32	11
15	14	1
521	460	61
276	257	19
592	564	28
297	287	10
49	42	7
477	401	76
136	125	11
326	297	29
244	231	13
392	368	24
84	76	8
533	472	61
24	22	2
591	553	38
265	238	27
131	119	12
102	95	7
297	279	18
40	34	6
66	61	5
77	70	7
128	107	21
6,020	5,481	539

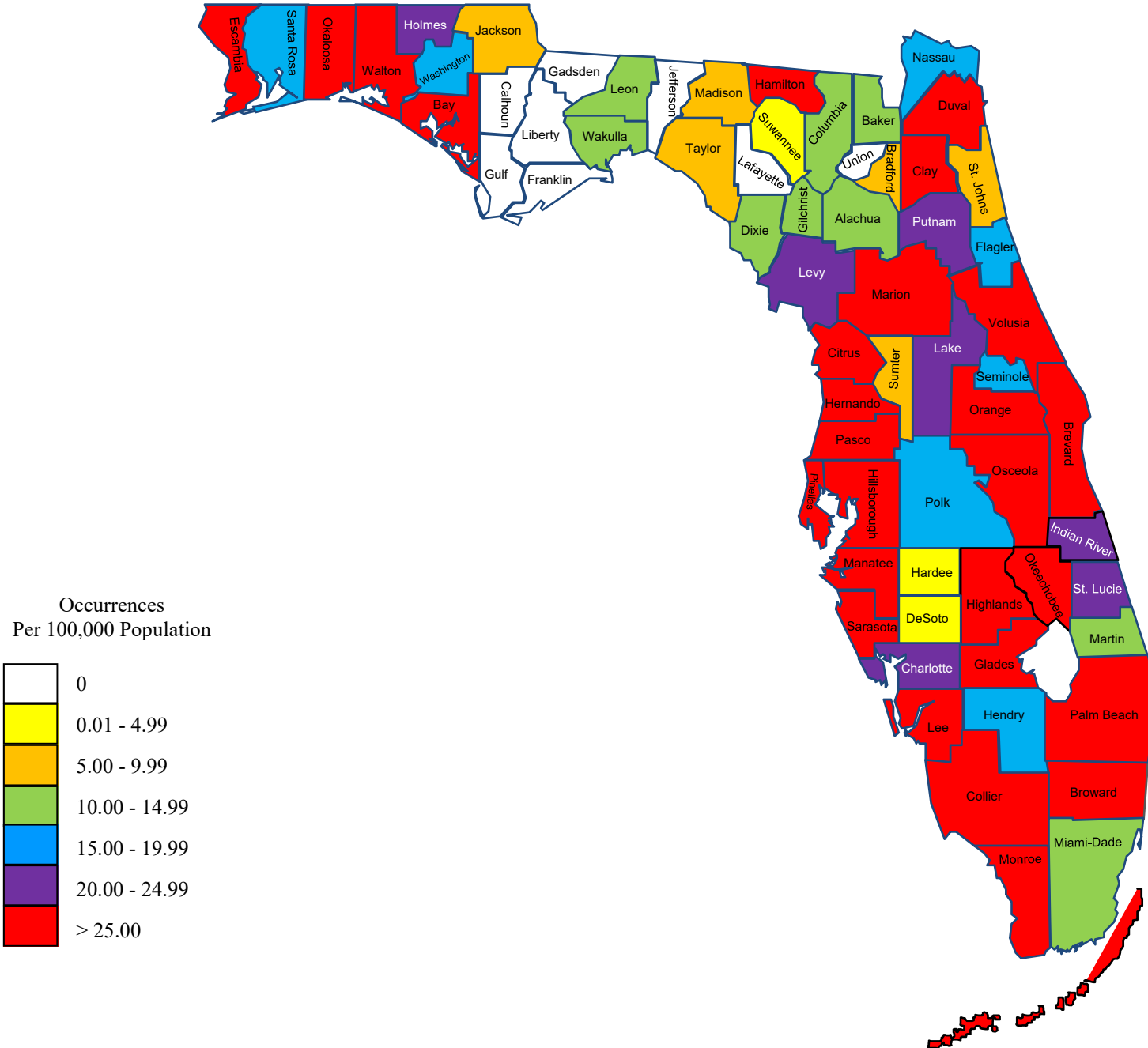
Fentanyl Deaths by Age January – December 2021

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	339
2	Tallahassee	49
3	Live Oak	18
4	Jacksonville	560
5	Leesburg	312
6	St. Petersburg	654
7	Daytona Beach	302
8	Gainesville	53
9	Orlando	521
10	Lakeland	149
11	Miami	331
12	Sarasota	263
13	Tampa	437
14	Panama City	95
15	West Palm Beach	547
16	Florida Keys	26
17	Ft. Lauderdale	611
18	Melbourne	272
19	Ft. Pierce	142
20	Naples	102
21	Ft. Myers	306
22	Port Charlotte	40
23	St. Augustine	67
24	Sanford	83
25	Kissimmee	138
Statewide Totals		6,417

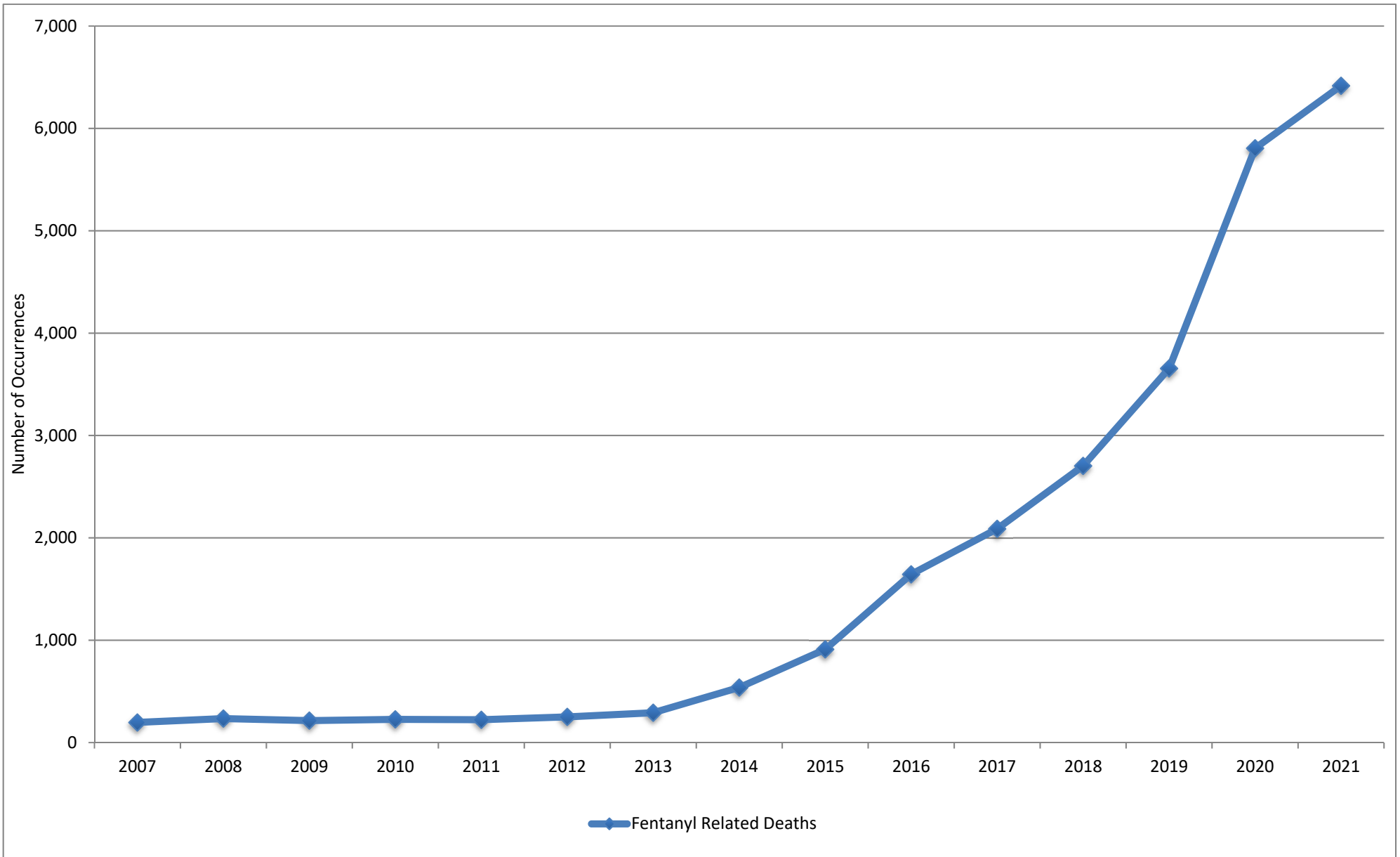
Fentanyl Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
294	1	26	78	112	77
32	0	5	9	12	6
16	0	2	4	5	5
496	2	31	116	214	133
289	2	11	61	128	87
624	3	21	118	305	177
289	2	13	67	138	69
45	0	2	12	20	11
428	4	29	101	201	93
137	0	9	36	60	32
299	2	36	75	105	81
246	1	13	61	114	57
410	2	30	110	170	98
80	1	10	20	37	12
479	2	51	156	172	98
22	0	1	5	10	6
568	2	43	134	235	154
243	1	10	45	120	67
127	0	5	36	60	26
95	1	8	22	37	27
284	1	21	63	135	64
34	0	1	5	19	9
62	1	5	14	30	12
76	1	4	23	29	19
116	1	13	19	52	31
5,791	30	400	1,390	2,520	1,451

Fentanyl Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
45	2	3	9	16	15
17	1	4	3	6	3
2	0	0	0	0	2
64	1	3	13	34	13
23	0	0	3	13	7
30	1	3	5	12	9
13	0	1	3	6	3
8	0	0	2	3	3
93	4	8	18	18	45
12	0	1	3	2	6
32	0	2	4	19	7
17	0	4	2	6	5
27	0	4	8	8	7
15	2	1	2	2	8
68	0	7	14	23	24
4	0	0	1	2	1
43	2	2	10	19	10
29	0	2	8	8	11
15	1	0	2	3	9
7	0	0	0	4	3
22	2	1	6	4	9
6	0	1	0	3	2
5	0	0	0	5	0
7	0	1	2	3	1
22	0	2	5	9	6
626	16	50	123	228	209

Fentanyl Deaths by County 2021



Historical Overview of Fentanyl Occurrences¹ (Present and Cause) 2007 to 2021



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 2020 versus 2021

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>	

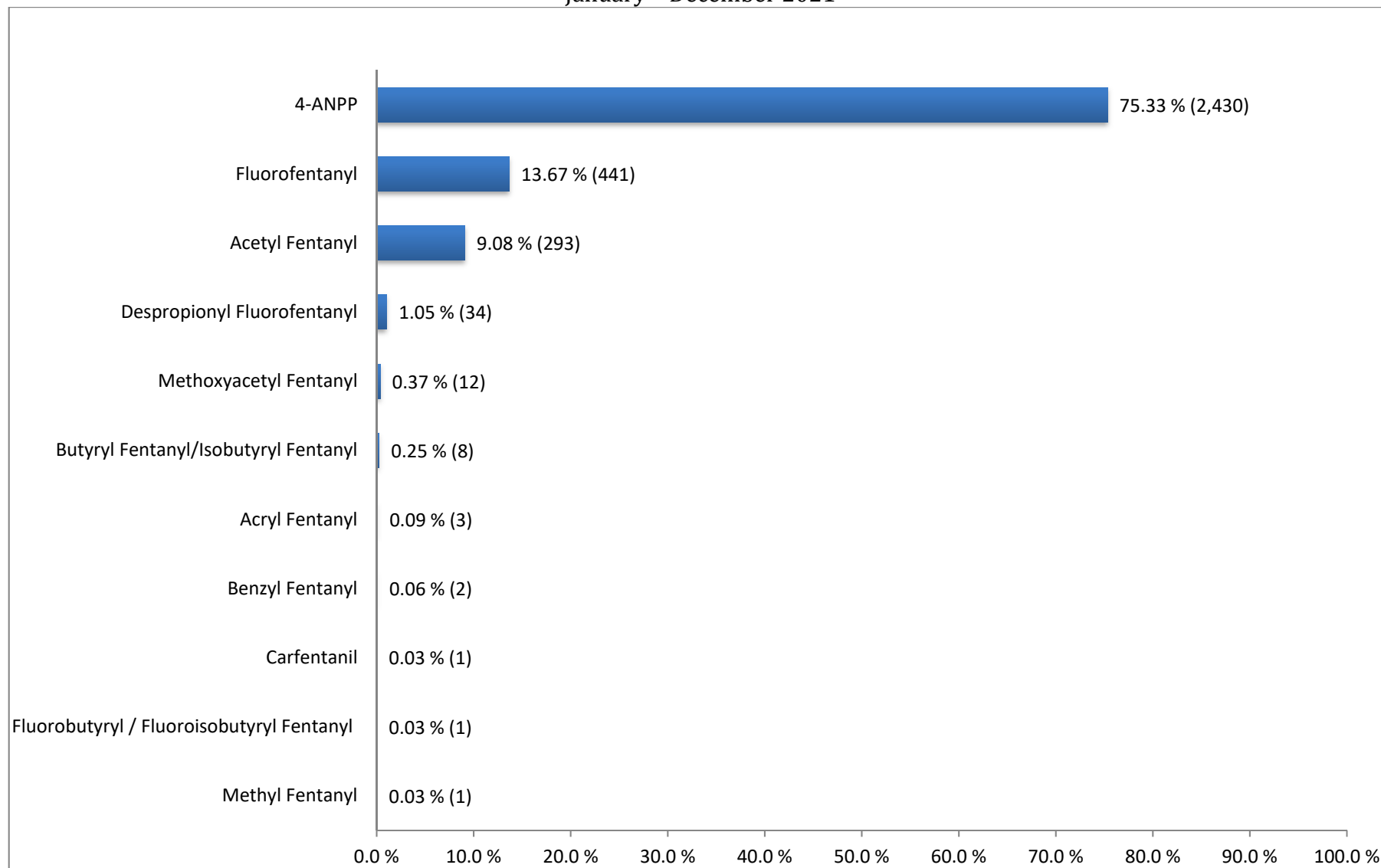
Total Prescription Drug Deaths in ME Deaths (Present and Cause)		
2020	2021	Percent Change
357	487	36.4%
81	97	19.8%
55	69	25.5%
801	778	-2.9%
343	439	28.0%
933	954	2.3%
403	406	0.7%
129	116	-10.1%
635	790	24.4%
258	287	11.2%
656	641	-2.3%
356	386	8.4%
568	642	13.0%
138	168	21.7%
841	774	-8.0%
26	40	53.8%
802	818	2.0%
420	385	-8.3%
256	287	12.1%
144	160	11.1%
409	403	-1.5%
60	89	48.3%
131	128	-2.3%
70	111	58.6%
166	223	34.3%
9,038	9,678	7.1%
<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)		
2020	2021	Percent Change
272	375	37.9%
45	62	37.8%
31	33	6.5%
637	630	-1.1%
273	355	30.0%
751	786	4.7%
334	345	3.3%
83	79	-4.8%
501	614	22.6%
190	209	10.0%
448	432	-3.6%
272	314	15.4%
450	505	12.2%
77	124	61.0%
672	604	-10.1%
19	33	73.7%
707	683	-3.4%
328	291	-11.3%
178	188	5.6%
100	120	20.0%
334	339	1.5%
38	59	55.3%
97	97	0.0%
56	87	55.4%
124	167	34.7%
7,017	7,531	7.3%
<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		
2020	2021	Percent Change
209	322	54.1%
24	41	70.8%
20	23	15.0%
574	535	-6.8%
235	317	34.9%
671	704	4.9%
297	309	4.0%
56	58	3.6%
368	452	22.8%
155	152	-1.9%
328	311	-5.2%
243	279	14.8%
402	444	10.4%
47	82	74.5%
600	514	-14.3%
15	28	86.7%
660	622	-5.8%
277	236	-14.8%
144	138	-4.2%
83	104	25.3%
297	302	1.7%
26	39	50.0%
81	72	-11.1%
53	77	45.3%
98	120	22.4%
5,963	6,281	5.3%
<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 2021



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 2021

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
7	7	0
23	5	18
3	1	2
113	61	52
37	35	2
69	45	24
265	37	228
20	16	4
256	5	251
78	75	3
201	53	148
154	40	114
27	25	2
24	24	0
325	116	209
9	6	3
487	434	53
174	4	170
81	78	3
64	28	36
246	33	213
3	0	3
59	11	48
15	13	2
61	0	61
2,801	1,152	1,649

Deaths with Fentanyl Analogs Only		
Total	Cause	Present
0	0	0
0	0	0
0	0	0
1	1	0
0	0	0
2	2	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
1	1	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
2	2	0
0	0	0
0	0	0
0	0	0
0	0	0
6	6	0

Deaths with Fentanyl Analogs in Combination with Other Drugs		
Total	Cause	Present
7	7	0
23	5	18
3	1	2
112	60	52
37	35	2
67	43	24
265	37	228
20	16	4
256	5	251
78	75	3
201	53	148
153	39	114
27	25	2
24	24	0
325	116	209
9	6	3
487	434	53
174	4	170
81	78	3
64	28	36
244	31	213
3	0	3
59	11	48
15	13	2
61	0	61
2,795	1,146	1,649

Fentanyl Analog Deaths by Age

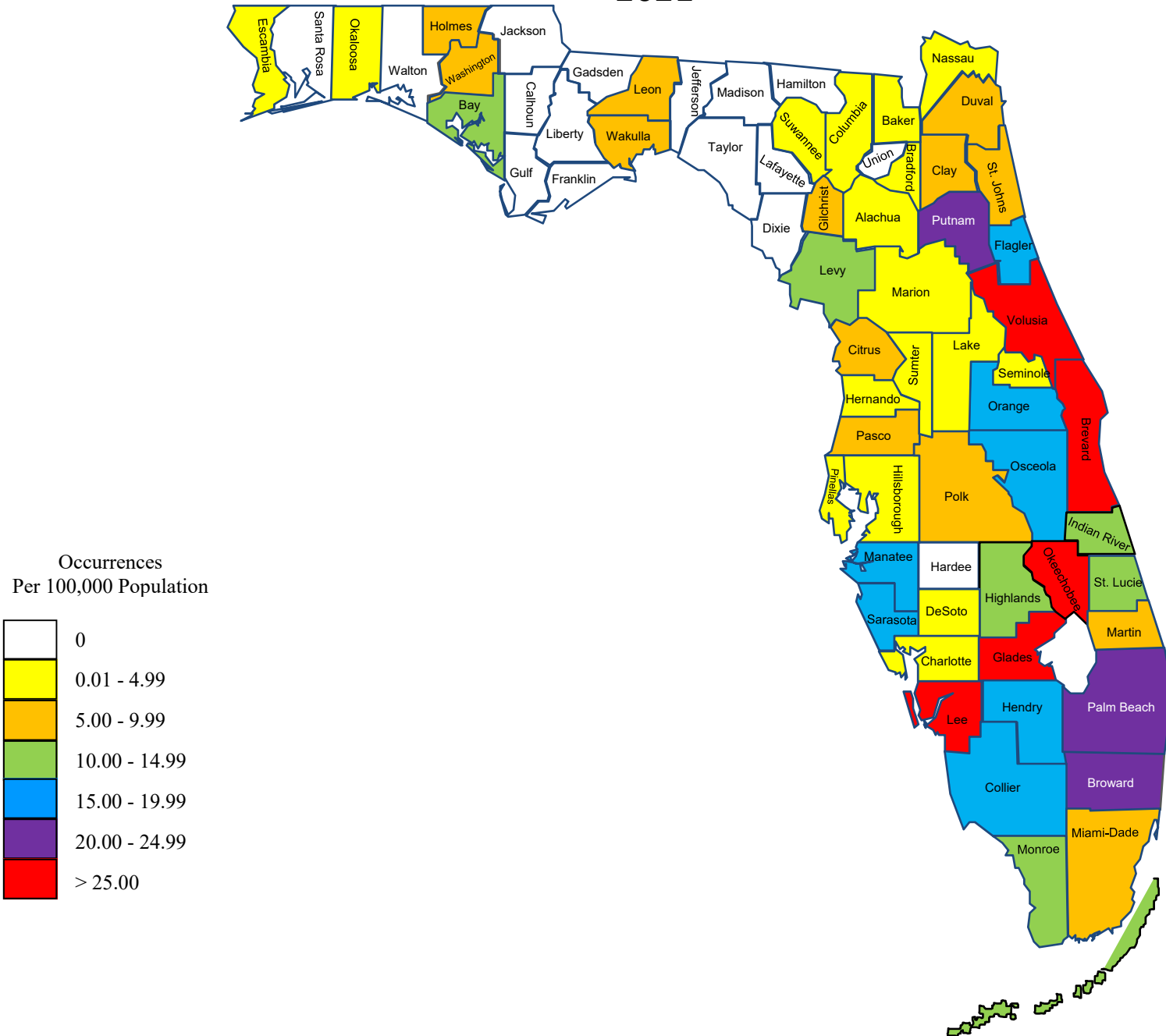
January – December 2021

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	7
2	Tallahassee	23
3	Live Oak	3
4	Jacksonville	113
5	Leesburg	37
6	St. Petersburg	69
7	Daytona Beach	265
8	Gainesville	20
9	Orlando	256
10	Lakeland	78
11	Miami	201
12	Sarasota	154
13	Tampa	27
14	Panama City	24
15	West Palm Beach	325
16	Florida Keys	9
17	Ft. Lauderdale	487
18	Melbourne	174
19	Ft. Pierce	81
20	Naples	64
21	Ft. Myers	246
22	Port Charlotte	3
23	St. Augustine	59
24	Sanford	15
25	Kissimmee	61
Statewide Totals		2,801

Fentanyl Analogs Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
7	0	0	1	4	2
5	0	1	1	2	1
1	0	0	1	0	0
61	0	5	6	32	18
35	1	1	12	11	10
45	1	1	11	20	12
37	0	2	8	16	11
16	0	1	6	7	2
5	0	0	0	3	2
75	0	5	22	33	15
53	0	9	14	12	18
40	0	1	10	19	10
25	0	1	11	11	2
24	0	0	7	11	6
116	0	15	44	45	12
6	0	0	3	2	1
434	1	31	104	184	114
4	0	0	1	2	1
78	0	5	26	34	13
28	1	3	4	12	8
33	0	2	8	16	7
0	0	0	0	0	0
11	0	0	2	9	0
13	1	1	3	5	3
0	0	0	0	0	0
1,152	5	84	305	490	268

Fentanyl Analogs Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
0	0	0	0	0	0
18	0	5	6	5	2
2	0	0	0	0	2
52	1	2	15	23	11
2	0	1	0	1	0
24	0	2	6	12	4
228	2	9	55	109	53
4	0	0	1	2	1
251	4	12	66	114	55
3	0	0	2	0	1
148	2	18	35	56	37
114	1	5	29	58	21
2	0	0	1	1	0
0	0	0	0	0	0
209	0	25	67	71	46
3	0	0	1	1	1
53	1	8	15	21	8
170	1	5	34	84	46
3	0	0	0	2	1
36	0	3	9	14	10
213	1	18	50	99	45
3	0	0	0	2	1
48	1	4	13	18	12
2	0	0	1	0	1
61	1	6	12	33	9
1,649	15	123	418	726	367

Fentanyl Analog Deaths by County 2021



Cocaine Deaths

January – December 2021

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
120	84	36
26	23	3
12	8	4
341	276	65
98	78	20
334	239	95
130	99	31
55	31	24
364	280	84
93	66	27
471	290	181
158	102	56
255	143	112
22	13	9
434	174	260
15	13	2
449	351	98
132	95	37
102	57	45
78	57	21
135	65	70
20	10	10
39	16	23
40	35	5
92	72	20
4,015	2,677	1,338

Deaths with Cocaine Only		
Total	Cause	Present
15	9	6
5	5	0
4	2	2
40	29	11
15	7	8
25	14	11
9	7	2
12	5	7
46	25	21
14	12	2
49	19	30
12	6	6
41	20	21
1	1	0
30	12	18
0	0	0
52	35	17
6	3	3
13	8	5
0	0	0
14	6	8
0	0	0
4	2	2
3	2	1
9	5	4
419	234	185

Deaths with Cocaine in Combination with Other Drugs		
Total	Cause	Present
105	75	30
21	18	3
8	6	2
301	247	54
83	71	12
309	225	84
121	92	29
43	26	17
318	255	63
79	54	25
422	271	151
146	96	50
214	123	91
21	12	9
404	162	242
15	13	2
397	316	81
126	92	34
89	49	40
78	57	21
121	59	62
20	10	10
35	14	21
37	33	4
83	67	16
3,596	2,443	1,153

Cocaine Deaths by Age

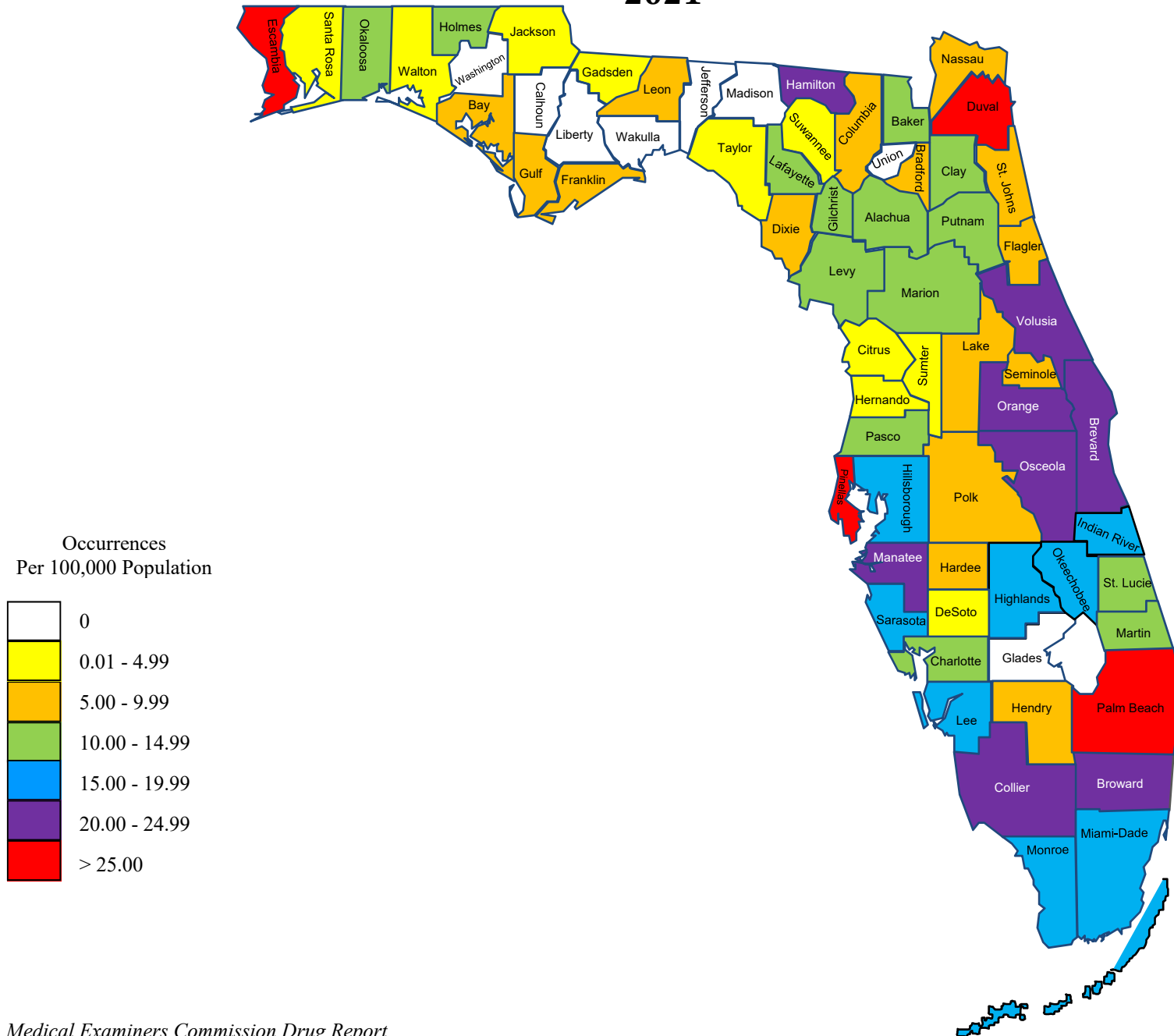
January – December 2021

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	120
2	Tallahassee	26
3	Live Oak	12
4	Jacksonville	341
5	Leesburg	98
6	St. Petersburg	334
7	Daytona Beach	130
8	Gainesville	55
9	Orlando	364
10	Lakeland	93
11	Miami	471
12	Sarasota	158
13	Tampa	255
14	Panama City	22
15	West Palm Beach	434
16	Florida Keys	15
17	Ft. Lauderdale	449
18	Melbourne	132
19	Ft. Pierce	102
20	Naples	78
21	Ft. Myers	135
22	Port Charlotte	20
23	St. Augustine	39
24	Sanford	40
25	Kissimmee	92
Statewide Totals		4,015

Cocaine Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
84	0	4	17	29	34
23	0	2	2	9	10
8	0	0	1	1	6
276	1	11	41	119	104
78	0	3	10	25	40
239	0	5	39	103	92
99	1	5	12	43	38
31	0	1	5	10	15
280	0	11	53	135	81
66	1	4	7	19	35
290	1	24	64	100	101
102	0	1	19	42	40
143	0	7	25	60	51
13	0	1	2	5	5
174	1	6	45	77	45
13	0	0	2	6	5
351	2	16	64	157	112
95	2	2	13	38	40
57	0	1	10	24	22
57	0	5	17	17	18
65	0	4	10	33	18
10	0	1	2	3	4
16	0	1	0	8	7
35	0	2	9	13	11
72	1	8	10	33	20
2,677	10	125	479	1,109	954

Cocaine Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
36	0	5	8	12	11
3	0	0	1	0	2
4	0	0	0	2	2
65	0	4	17	21	23
20	0	3	4	6	7
95	1	7	18	34	35
31	0	3	2	11	15
24	0	2	7	9	6
84	1	8	15	32	28
27	1	3	6	13	4
181	0	12	39	66	64
56	0	4	11	26	15
112	0	10	15	30	57
9	1	0	4	4	0
260	1	30	84	81	64
2	0	0	0	1	1
98	2	10	21	35	30
37	0	6	8	16	7
45	0	4	10	15	16
21	0	6	3	10	2
70	0	2	12	37	19
10	0	0	4	4	2
23	0	1	7	11	4
5	0	0	1	1	3
20	0	2	9	2	7
1,338	7	122	306	479	424

Cocaine Deaths by County 2021



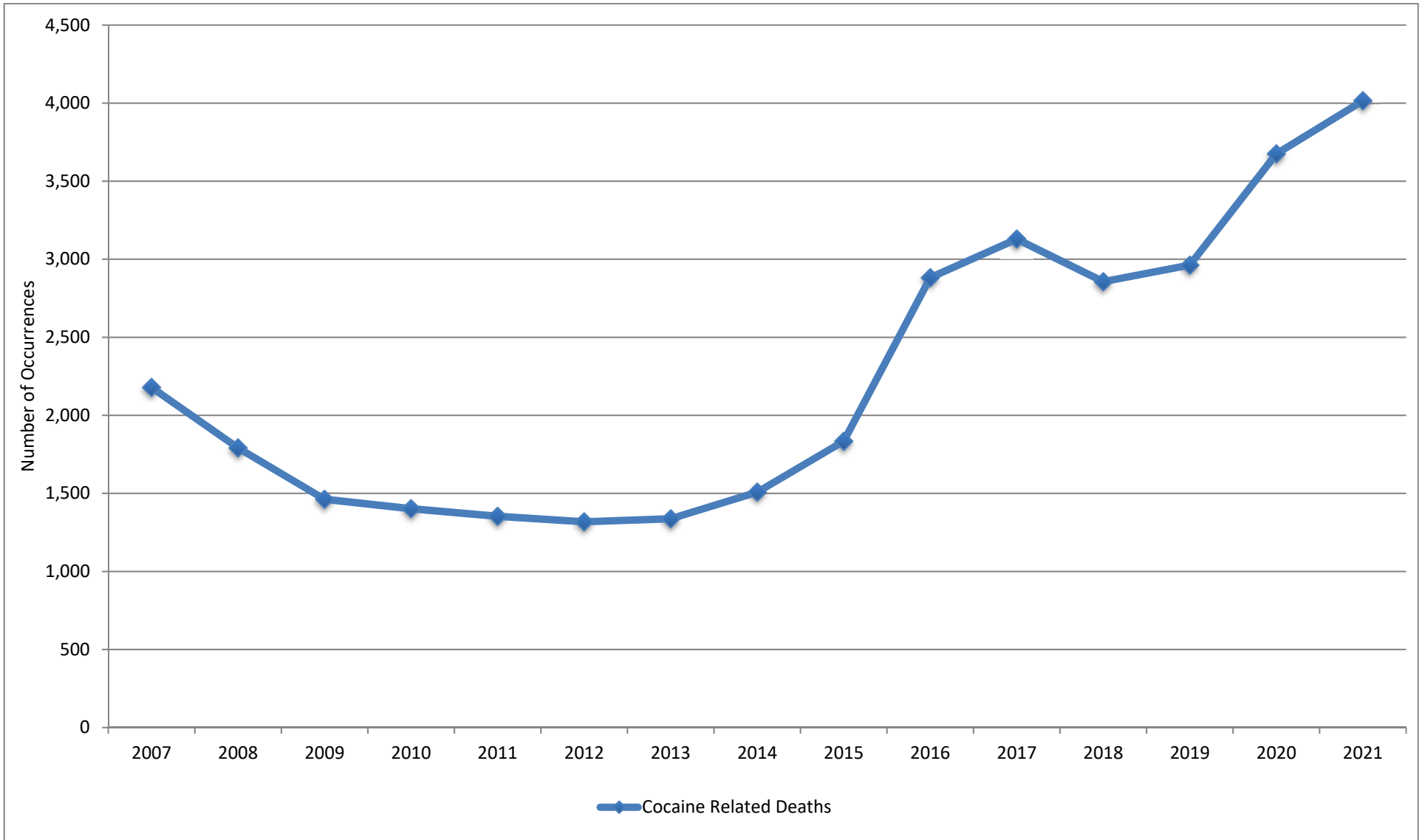
Cocaine Related Deaths by Medical Examiner District
(Present and Cause)
2007 to 2021

District	Area of Florida	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
1	Pensacola	76	56	33	36	34	34	31	56	80	57	58	71	73	93	120
2	Tallahassee	40	27	30	25	36	25	23	20	18	32	15	11	20	27	26
3	Live Oak	10	13	16	9	8	13	10	6	5	10	4	12	7	6	12
4	Jacksonville	248	165	125	115	113	119	119	107	146	266	359	251	279	335	341
5	Leesburg	45	67	56	52	48	46	57	62	54	128	109	84	77	87	98
6	St. Petersburg	173	154	139	134	112	125	100	98	101	157	187	225	250	284	334
7	Daytona Beach	84	51	58	44	43	36	37	34	37	51	88	102	76	127	130
8	Gainesville	42	32	39	39	34	30	29	30	31	41	43	35	46	48	55
9	Orlando	190	179	145	128	124	120	137	181	203	230	234	266	265	290	364
10	Lakeland	41	40	35	42	29	27	37	33	33	53	70	67	50	77	93
11	Miami	281	201	155	198	184	198	226	234	289	439	401	363	418	449	471
12	Sarasota	105	75	59	57	54	60	60	84	134	147	132	96	117	157	158
13	Tampa	158	146	54	83	96	59	74	65	84	108	109	140	140	216	255
14	Panama City	31	17	20	9	9	10	11	13	15	5	15	20	30	26	22
15	West Palm Beach	168	143	126	106	91	87	105	143	173	405	417	338	343	407	434
16	Florida Keys	27	15	14	11	7	13	4	6	13	20	20	11	15	12	15
17	Ft. Lauderdale	157	146	135	127	115	129	102	99	152	328	321	236	277	427	449
18	Melbourne	62	68	59	49	38	52	53	60	86	103	128	114	130	158	132
19	Ft. Pierce	46	47	35	20	40	24	34	50	49	71	88	69	66	89	102
20	Naples	29	15	21	13	23	16	10	29	23	40	32	45	61	58	78
21	Ft. Myers	79	67	48	53	73	56	51	63	71	99	152	146	98	128	135
22	Port Charlotte	19	14	9	5	7	9	2	10	12	9	13	10	12	17	20
23	St. Augustine	33	27	19	23	15	11	11	1	9	23	39	33	24	53	39
24	Sanford	35	26	32	24	20	19	14	24	16	37	41	50	44	33	40
25	Kissimmee										23	54	61	44	71	92
Statewide Total		2,179	1,791	1,462	1,402	1,353	1,318	1,337	1,508	1,834	2,882	3,129	2,856	2,962	3,675	4,015

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)
2007 to 2021



Heroin Deaths
January – December 2021

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
46	45	1
4	4	0
0	0	0
6	5	1
30	30	0
20	15	5
21	21	0
6	4	2
17	17	0
4	4	0
21	18	3
6	5	1
49	45	4
8	7	1
98	38	60
1	0	1
73	62	11
4	4	0
1	1	0
18	18	0
10	10	0
4	2	2
3	3	0
5	4	1
9	9	0
464	371	93

Deaths with Heroin Only		
Total	Cause	Present
0	0	0
0	0	0
0	0	0
0	0	0
1	1	0
0	0	0
0	0	0
1	1	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
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	2	0

Deaths with Heroin in Combination with Other Drugs		
Total	Cause	Present
46	45	1
4	4	0
0	0	0
6	5	1
29	29	0
20	15	5
21	21	0
5	3	2
17	17	0
4	4	0
21	18	3
6	5	1
49	45	4
8	7	1
98	38	60
1	0	1
73	62	11
4	4	0
1	1	0
18	18	0
10	10	0
4	2	2
3	3	0
5	4	1
9	9	0
462	369	93

Heroin Deaths by Age

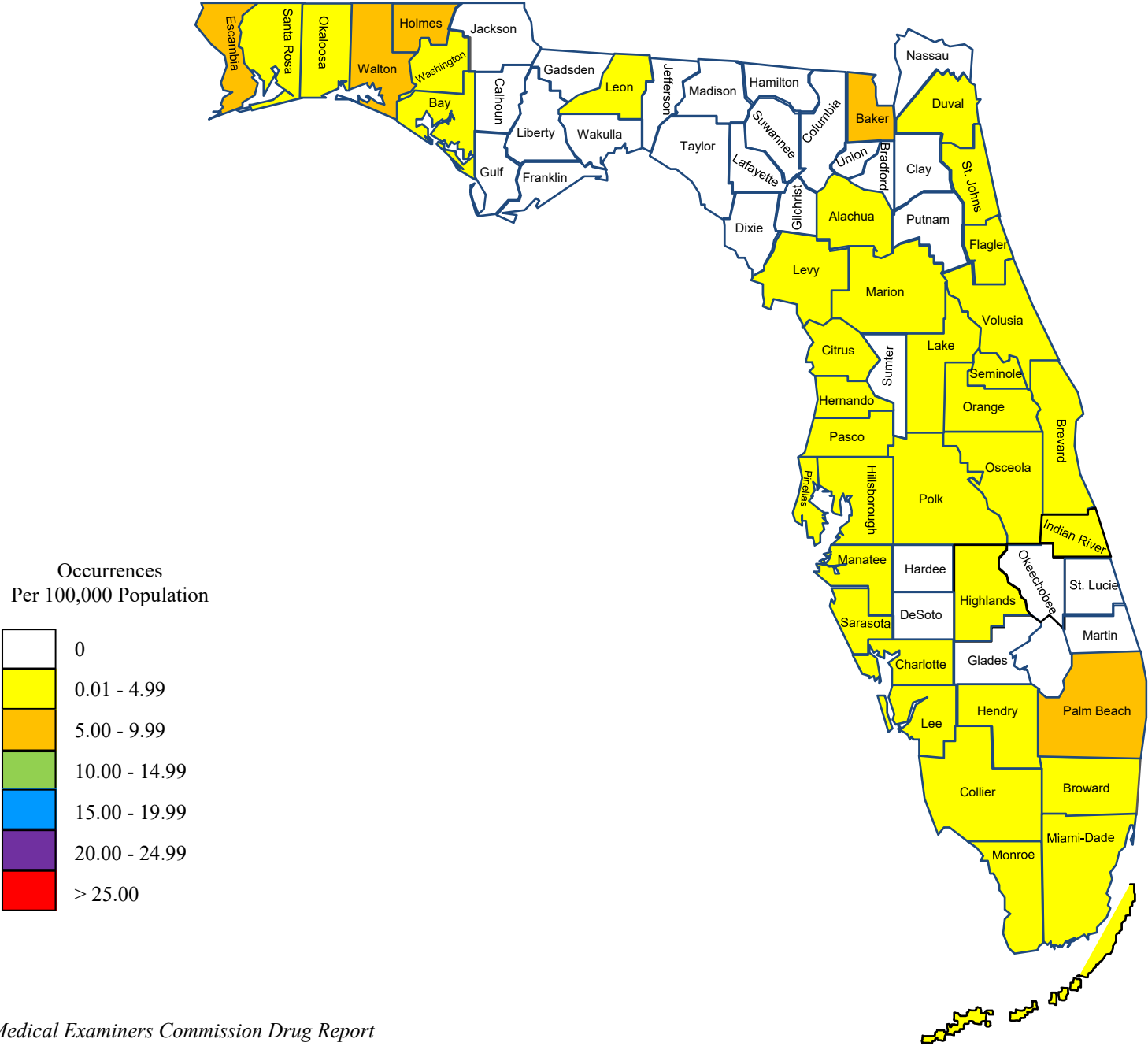
January – December 2021

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	46
2	Tallahassee	4
3	Live Oak	0
4	Jacksonville	6
5	Leesburg	30
6	St. Petersburg	20
7	Daytona Beach	21
8	Gainesville	6
9	Orlando	17
10	Lakeland	4
11	Miami	21
12	Sarasota	6
13	Tampa	49
14	Panama City	8
15	West Palm Beach	98
16	Florida Keys	1
17	Ft. Lauderdale	73
18	Melbourne	4
19	Ft. Pierce	1
20	Naples	18
21	Ft. Myers	10
22	Port Charlotte	4
23	St. Augustine	3
24	Sanford	5
25	Kissimmee	9
Statewide Totals		464

Heroin Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
45	0	1	11	17	16
4	0	0	0	3	1
0	0	0	0	0	0
5	0	0	1	4	0
30	0	2	7	14	7
15	0	0	2	4	9
21	0	0	4	15	2
4	0	0	1	3	0
17	1	0	3	8	5
4	0	0	0	2	2
18	0	2	5	6	5
5	0	0	1	1	3
45	0	3	11	20	11
7	0	0	1	5	1
38	0	2	18	14	4
0	0	0	0	0	0
62	0	3	13	30	16
4	0	0	1	0	3
1	0	0	1	0	0
18	0	1	5	7	5
10	0	0	1	7	2
2	0	0	0	2	0
3	0	0	1	1	1
4	0	0	0	1	3
9	0	0	0	6	3
371	1	14	87	170	99

Heroin Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
1	0	0	0	1	0
0	0	0	0	0	0
0	0	0	0	0	0
1	0	0	0	1	0
0	0	0	0	0	0
5	0	0	1	1	3
0	0	0	0	0	0
2	0	0	0	0	2
0	0	0	0	0	0
0	0	0	0	0	0
3	0	0	1	0	2
1	0	0	0	0	1
4	0	1	2	1	0
1	0	0	0	1	0
60	0	10	16	22	12
1	0	0	0	1	0
11	1	1	3	2	4
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	0	0	0	2
0	0	0	0	0	0
1	0	0	0	0	1
0	0	0	0	0	0
93	1	12	23	30	27

Heroin Deaths by County 2021



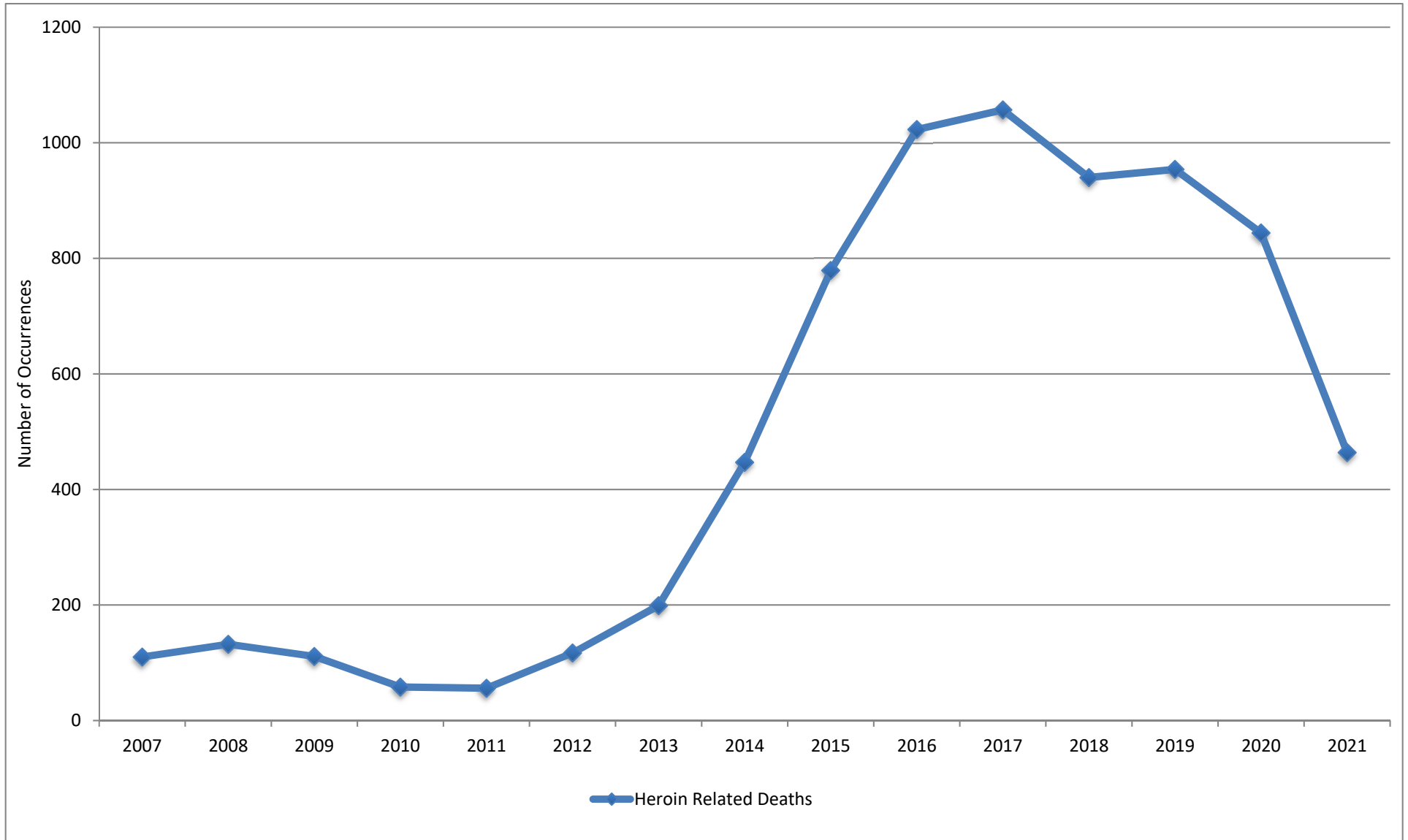
Heroin Related Deaths by Medical Examiner District
(Present and Cause)
2007 to 2021

District	Area of Florida	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
1	Pensacola	0	1	2	0	0	1	3	12	28	34	30	35	35	63	46
2	Tallahassee	0	0	0	0	1	0	1	2	0	1	2	1	4	5	4
3	Live Oak	0	0	0	0	0	0	1	0	1	0	2	0	0	5	0
4	Jacksonville	8	3	4	1	3	14	15	16	45	81	98	60	50	35	6
5	Leesburg	0	5	1	0	1	3	2	16	8	40	34	44	56	46	30
6	St. Petersburg	12	5	9	3	1	1	4	7	14	18	22	56	73	55	20
7	Daytona Beach	2	0	3	1	0	1	3	4	20	21	37	75	34	44	21
8	Gainesville	0	0	0	0	0	2	1	2	3	2	4	2	5	4	6
9	Orlando	16	16	24	10	18	26	41	83	108	68	59	54	58	37	17
10	Lakeland	0	0	2	1	0	1	4	7	10	11	10	5	11	19	4
11	Miami	26	38	30	26	15	33	40	60	92	139	97	59	68	43	21
12	Sarasota	4	19	4	2	2	8	19	55	68	32	22	17	20	15	6
13	Tampa	11	5	2	1	2	2	3	22	35	52	75	114	77	119	49
14	Panama City	1	0	0	1	0	0	2	2	4	8	4	7	18	12	8
15	West Palm Beach	10	7	7	4	6	6	20	51	165	205	215	174	205	138	98
16	Florida Keys	0	1	1	0	0	1	1	0	1	7	4	0	1	2	1
17	Ft. Lauderdale	4	17	8	5	3	9	11	28	80	180	186	110	133	118	73
18	Melbourne	1	1	2	0	0	0	2	7	12	21	25	18	8	2	4
19	Ft. Pierce	3	3	1	1	1	2	3	7	8	7	13	4	3	3	1
20	Naples	1	1	0	0	0	0	2	14	11	15	15	14	17	24	18
21	Ft. Myers	4	7	9	0	1	4	12	30	43	30	34	35	22	22	10
22	Port Charlotte	0	0	1	0	0	1	1	3	2	3	1	3	4	3	4
23	St. Augustine	0	0	0	1	0	1	1	1	2	6	14	5	11	9	3
24	Sanford	7	3	1	1	2	1	7	18	19	27	33	31	23	7	5
25	Kissimmee										15	21	17	18	14	9
Statewide Totals		110	132	111	58	56	117	199	447	779	1,023	1,057	940	954	844	464

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)
2007 to 2021



Methamphetamine Deaths

January – December 2021

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
271	218	53
52	23	29
40	23	17
272	177	95
232	193	39
374	315	59
163	139	24
48	26	22
117	77	40
162	123	39
95	57	38
113	85	28
205	147	58
96	53	43
67	32	35
5	4	1
79	54	25
160	84	76
54	33	21
44	37	7
134	103	31
41	29	12
38	15	23
27	19	8
45	35	10
2,934	2,101	833

Deaths with Methamphetamine Only		
Total	Cause	Present
2	1	1
6	0	6
1	1	0
4	3	1
4	4	0
6	0	6
0	0	0
6	4	2
6	1	5
3	3	0
1	0	1
1	0	1
26	16	10
3	1	2
2	1	1
0	0	0
5	4	1
0	0	0
4	2	2
0	0	0
0	0	0
0	0	0
0	0	0
1	0	1
1	1	0
82	42	40

Deaths with Methamphetamine in Combination with Other Drugs		
Total	Cause	Present
269	217	52
46	23	23
39	22	17
268	174	94
228	189	39
368	315	53
163	139	24
42	22	20
111	76	35
159	120	39
94	57	37
112	85	27
179	131	48
93	52	41
65	31	34
5	4	1
74	50	24
160	84	76
50	31	19
44	37	7
134	103	31
41	29	12
38	15	23
26	19	7
44	34	10
2,852	2,059	793

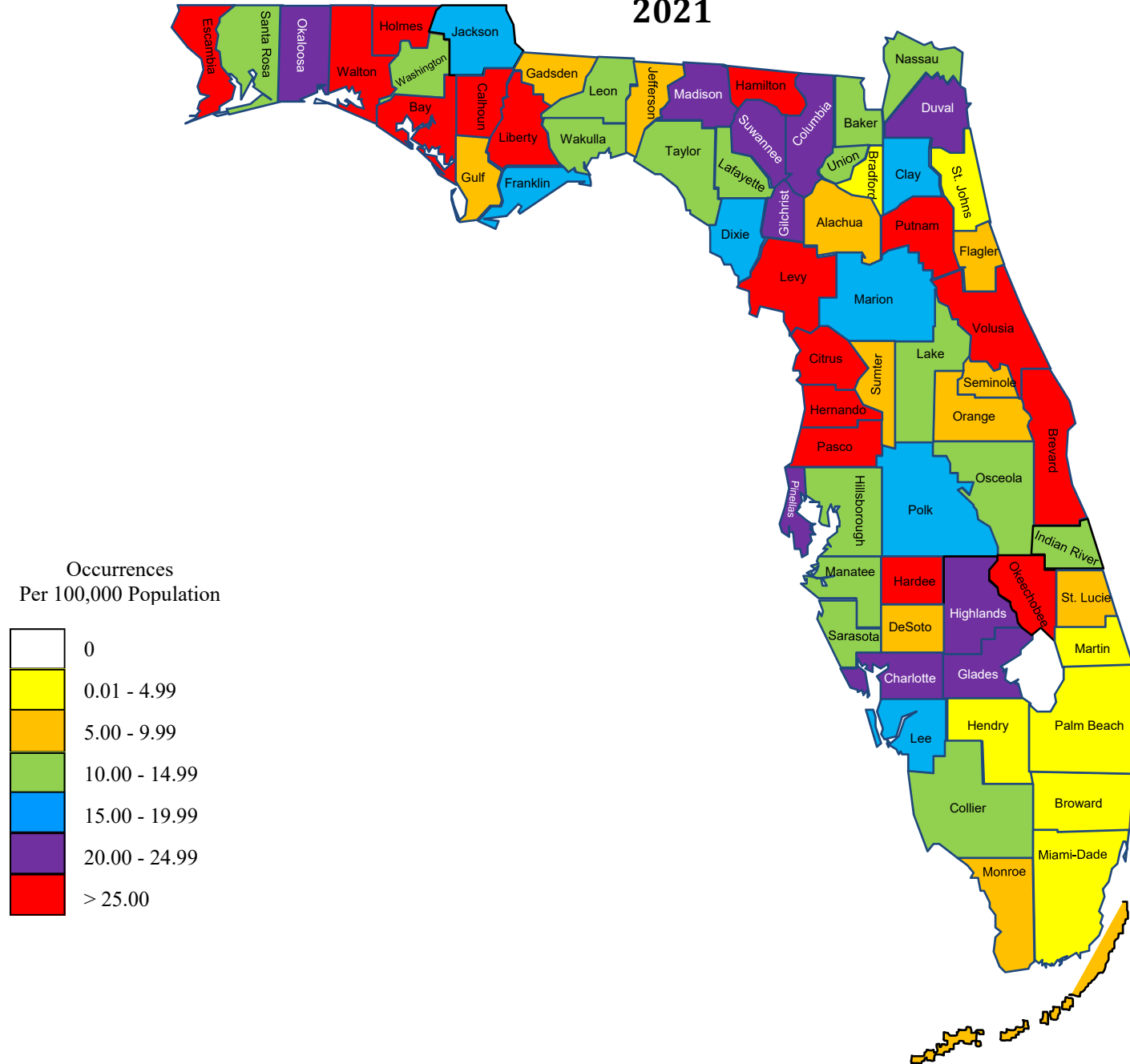
Methamphetamine Deaths by Age January – December 2021

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	271
2	Tallahassee	52
3	Live Oak	40
4	Jacksonville	272
5	Leesburg	232
6	St. Petersburg	374
7	Daytona Beach	163
8	Gainesville	48
9	Orlando	117
10	Lakeland	162
11	Miami	95
12	Sarasota	113
13	Tampa	205
14	Panama City	96
15	West Palm Beach	67
16	Florida Keys	5
17	Ft. Lauderdale	79
18	Melbourne	160
19	Ft. Pierce	54
20	Naples	44
21	Ft. Myers	134
22	Port Charlotte	41
23	St. Augustine	38
24	Sanford	27
25	Kissimmee	45
Statewide Totals		2,934

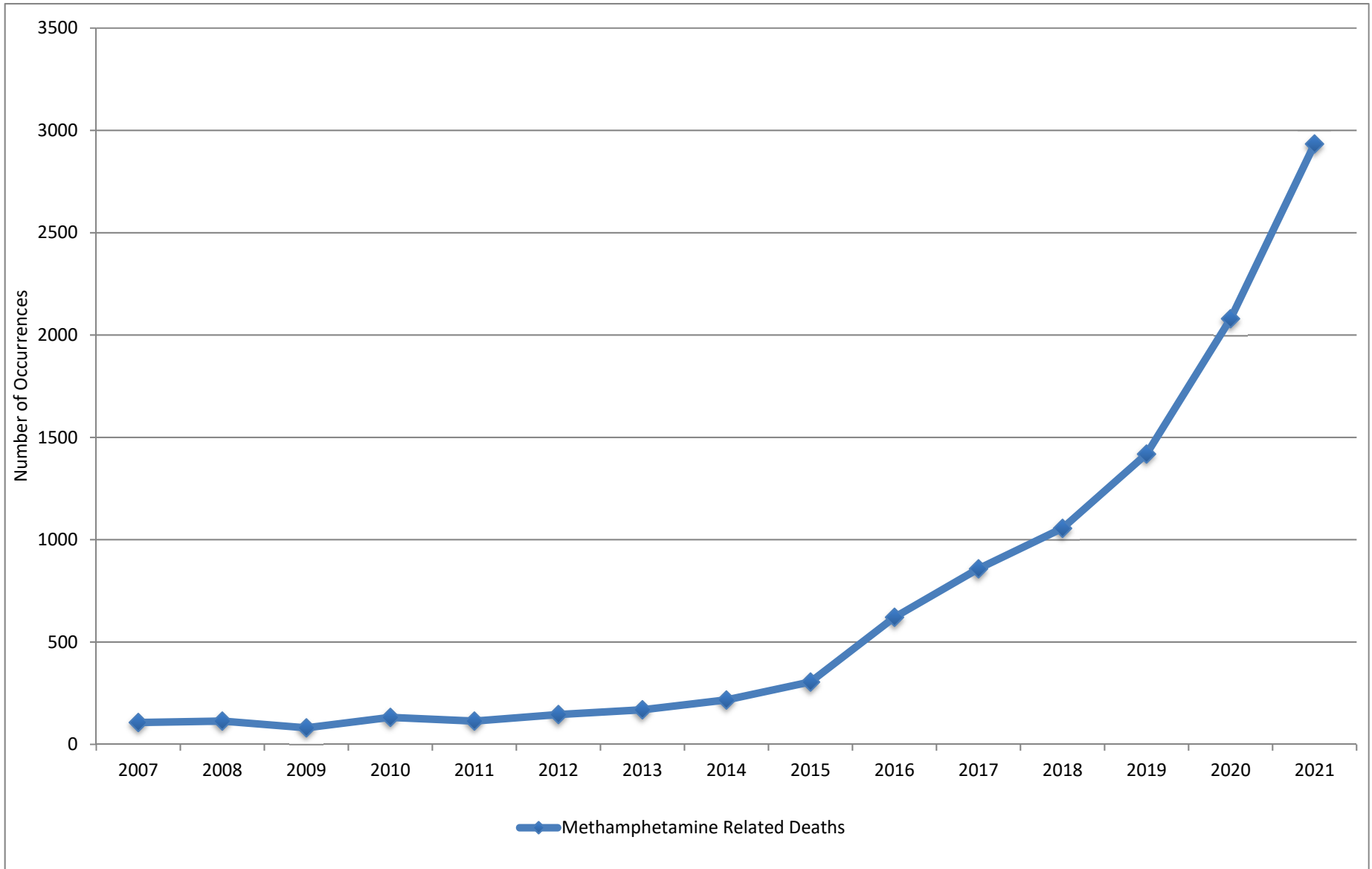
Methamphetamine Caused Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
218	1	14	49	87	67
23	0	2	5	11	5
23	0	3	4	10	6
177	2	3	42	91	39
193	0	5	44	82	62
315	2	8	63	149	93
139	1	3	38	71	26
26	0	0	8	9	9
77	0	3	23	36	15
123	0	6	26	50	41
57	1	10	14	22	10
85	1	4	22	38	20
147	0	9	33	68	37
53	2	1	9	27	14
32	0	1	6	18	7
4	0	0	0	3	1
54	0	1	11	28	14
84	1	5	14	48	16
33	0	0	5	21	7
37	0	3	7	15	12
103	2	6	14	62	19
29	0	1	2	15	11
15	0	1	3	6	5
19	0	1	6	8	4
35	1	1	7	18	8
2,101	14	91	455	993	548

Methamphetamine Present at Death					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
53	1	8	10	25	9
29	1	6	10	9	3
17	0	3	2	7	5
95	1	8	24	47	15
39	0	0	12	17	10
59	1	5	15	27	11
24	1	3	2	16	2
22	0	0	6	8	8
40	1	0	13	20	6
39	0	2	10	19	8
38	0	3	14	14	7
28	0	4	7	11	6
58	1	1	18	26	12
43	0	6	10	19	8
35	0	5	15	10	5
1	0	1	0	0	0
25	1	0	4	13	7
76	0	8	14	35	19
21	0	1	4	6	10
7	0	0	3	3	1
31	0	1	12	10	8
12	0	0	7	4	1
23	1	0	6	10	6
8	0	1	1	6	0
10	0	1	3	3	3
833	9	67	222	365	170

Methamphetamine Deaths by County 2021

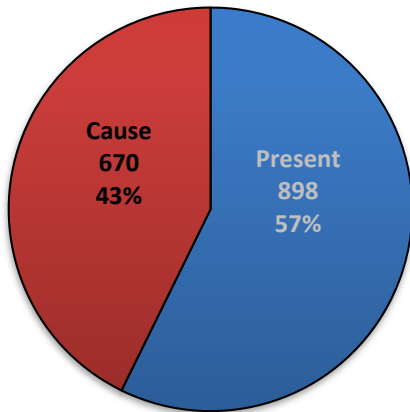


Historical Overview of Methamphetamine Occurrences (Present and Cause) 2007 to 2021

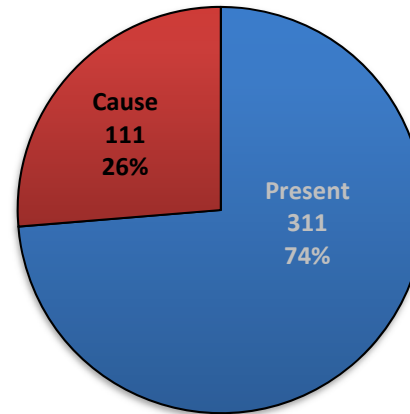


2021 Drug Detected at Death: Cause vs. Present

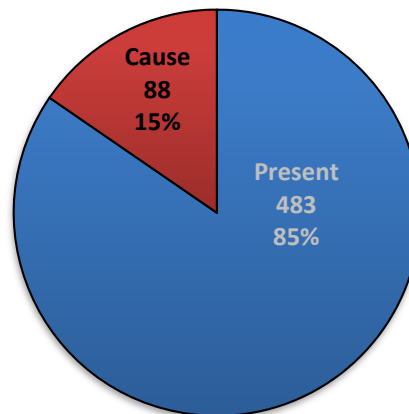
Alprazolam Deaths
Total Occurrences = 1,568



Diazepam Deaths
Total Occurrences = 422

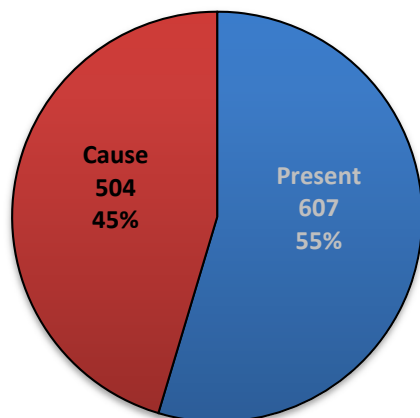


Clonazepam Deaths
Total Occurrences = 571

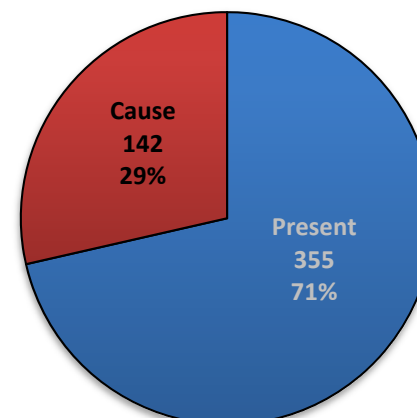


2021 Drug Detected at Death: Cause vs. Present

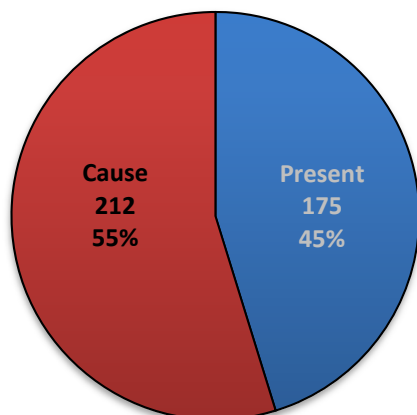
Oxycodone Deaths
Total Occurrences = 1,111



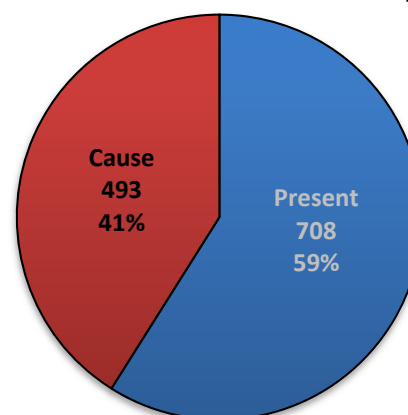
Hydrocodone Deaths
Total Occurrences = 497



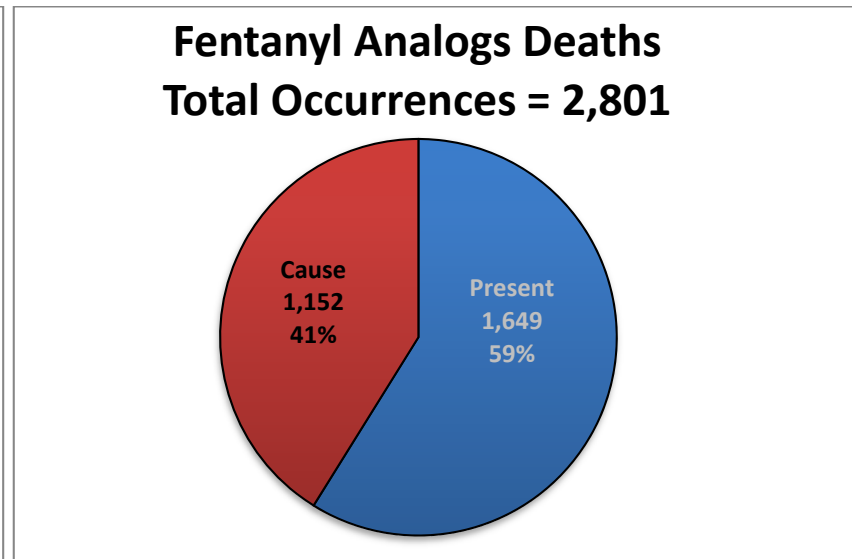
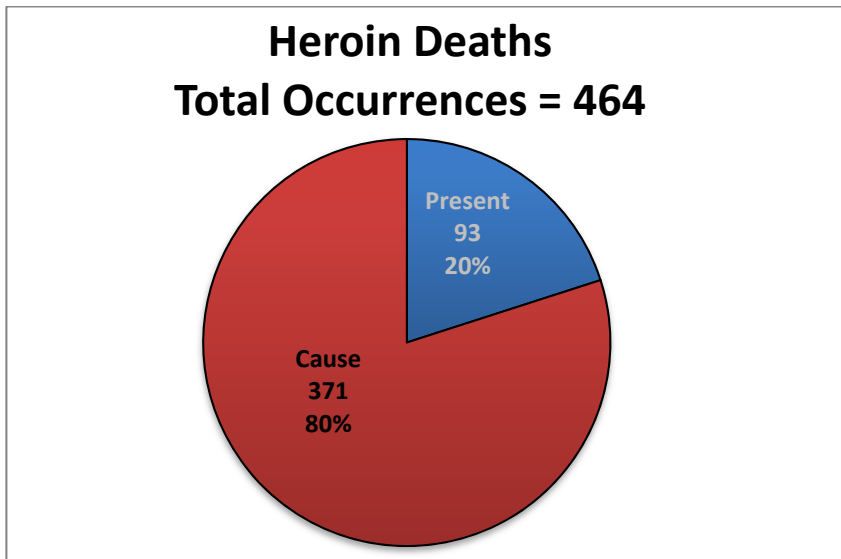
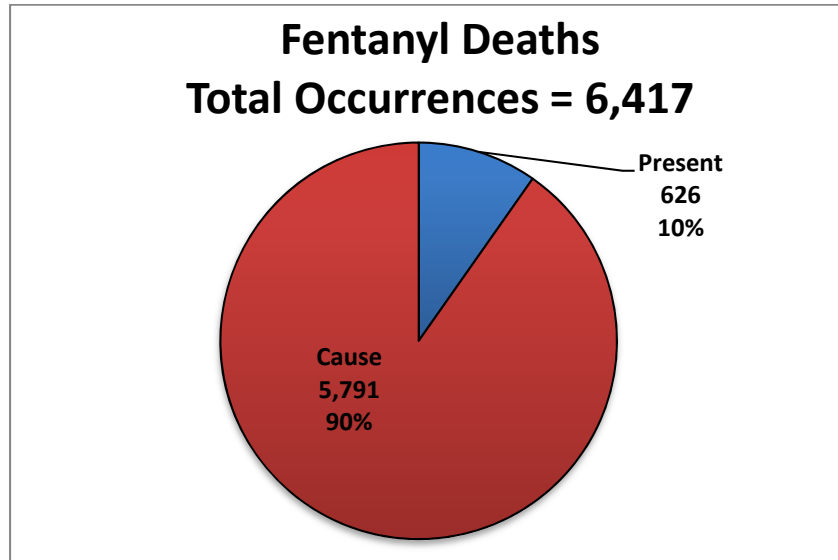
Methadone Deaths
Total Occurrences = 387



Morphine Deaths
Total Occurrences = 1,201

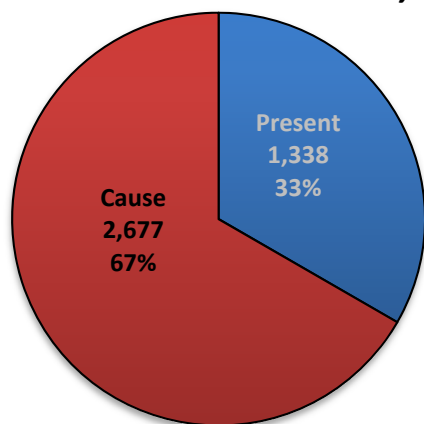


2021 Drug Detected at Death: Cause vs. Present

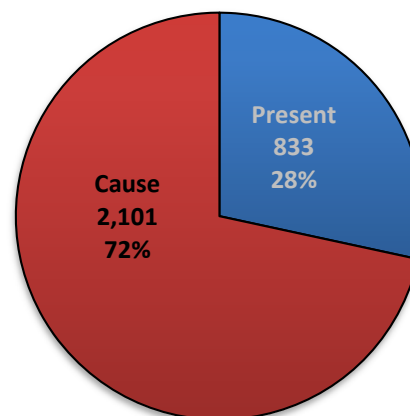


2021 Drug Detected at Death: Cause vs. Present

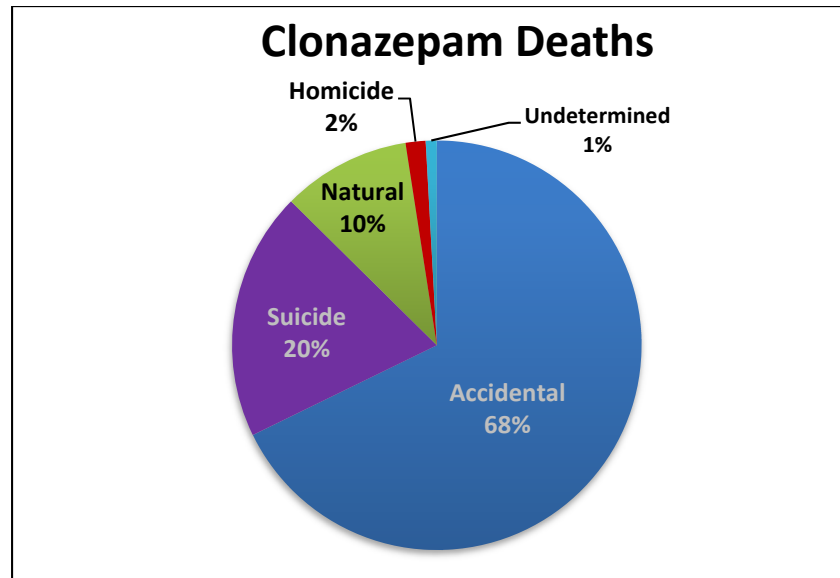
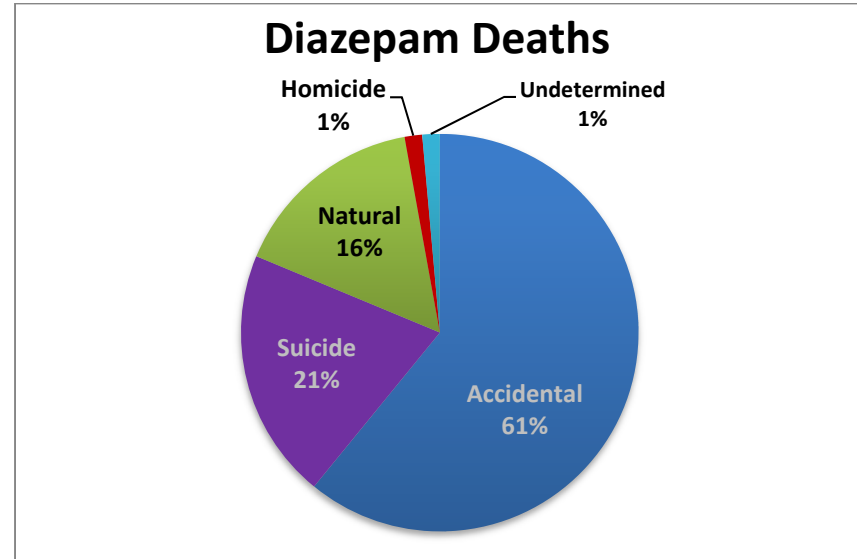
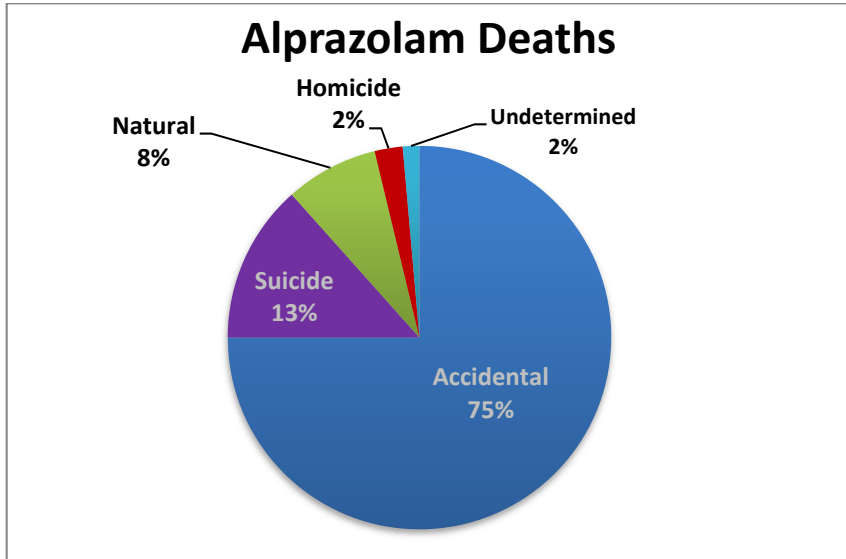
Cocaine Deaths
Total Occurrences = 4,015



Methamphetamine Deaths
Total Occurrences = 2,934

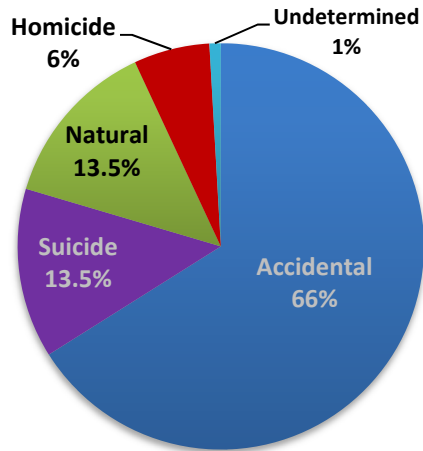


2021 Manner of Death for Reported Drug Occurrences

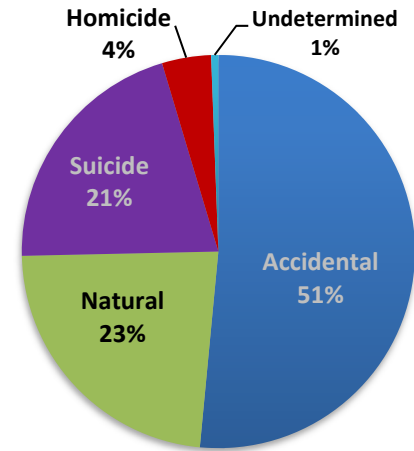


2021 Manner of Death for Reported Drug Occurrences

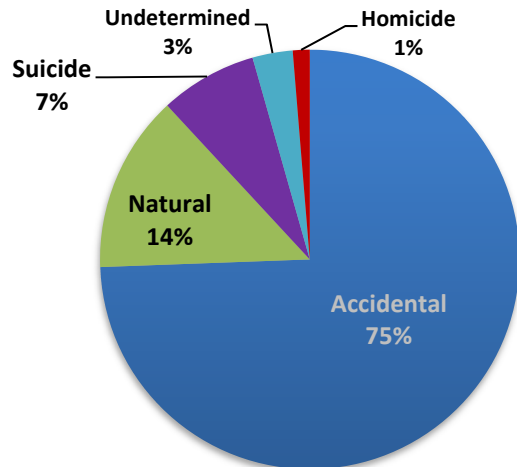
Oxycodone Deaths



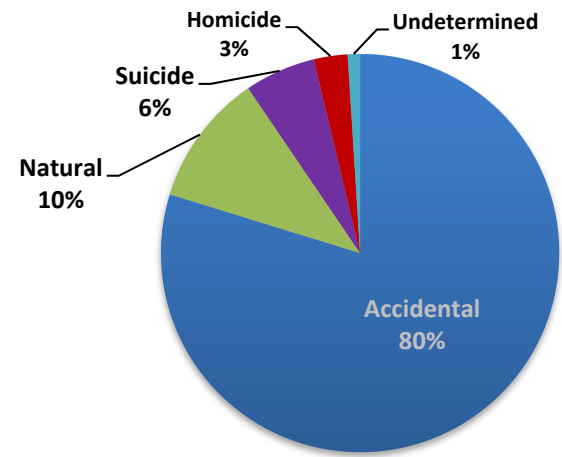
Hydrocodone Deaths



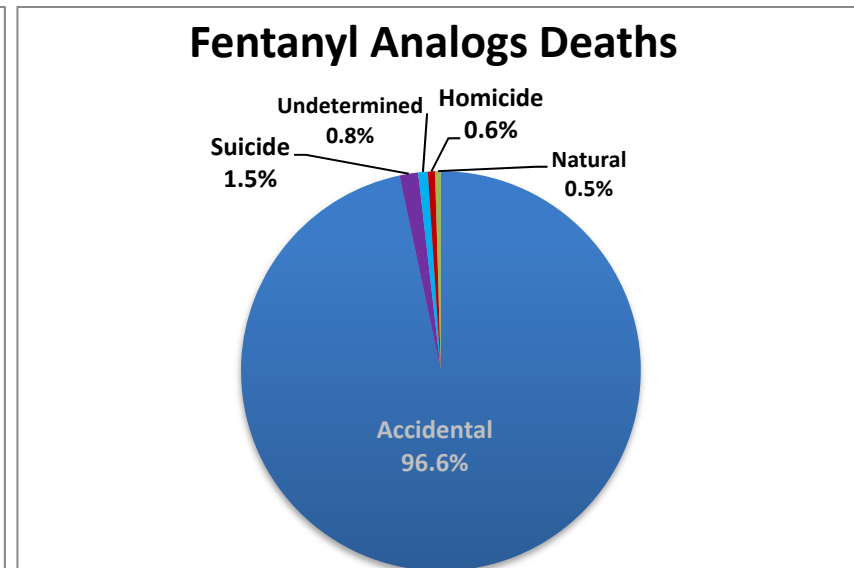
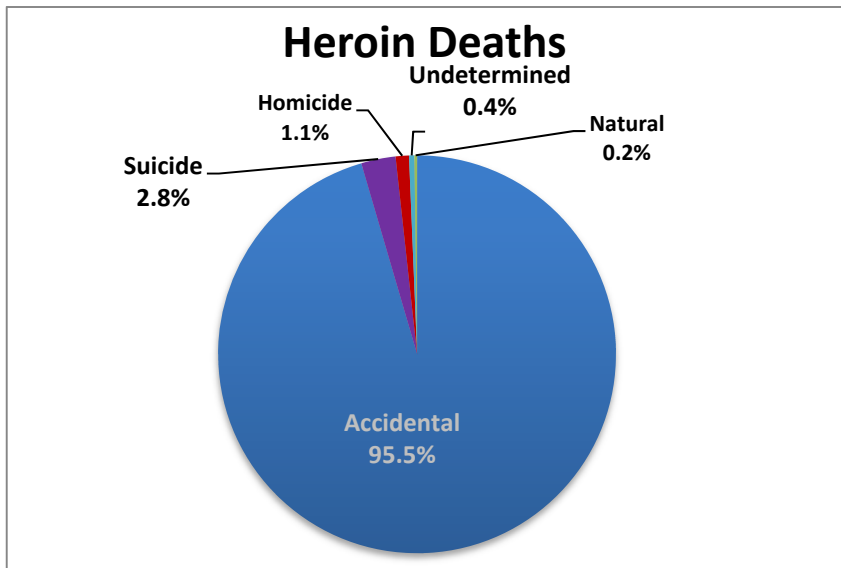
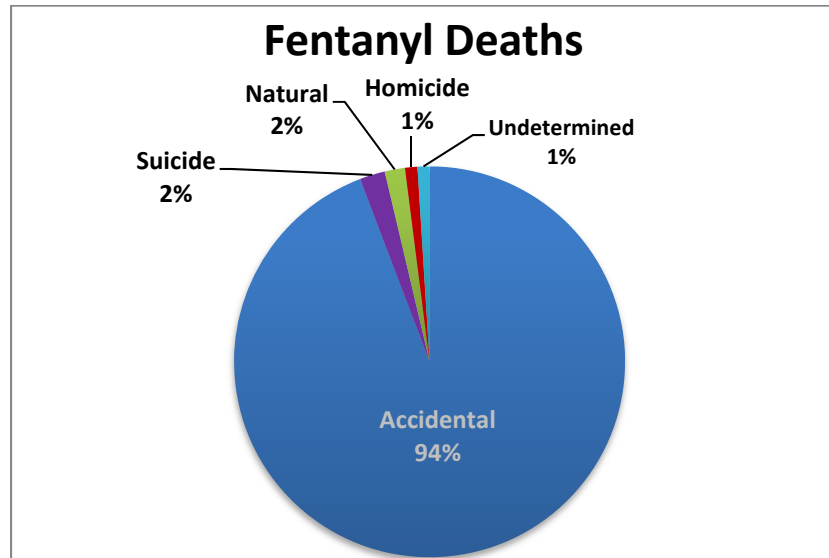
Methadone Deaths



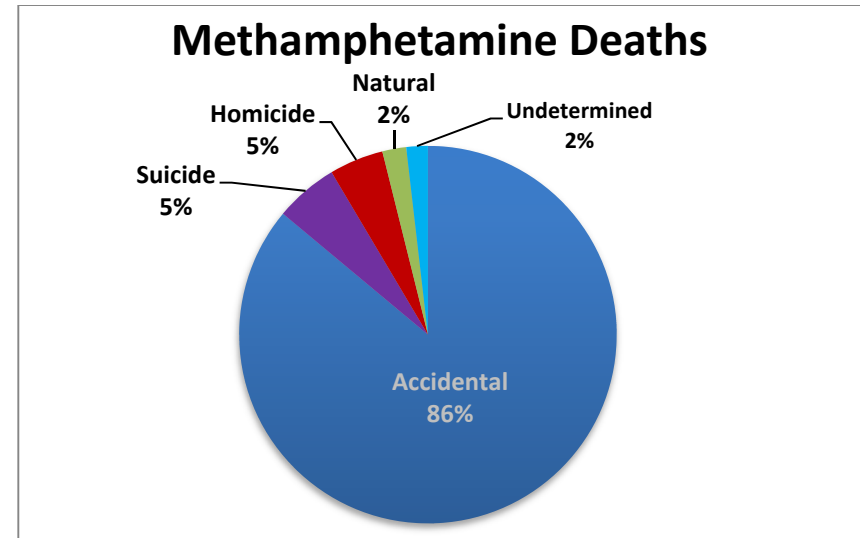
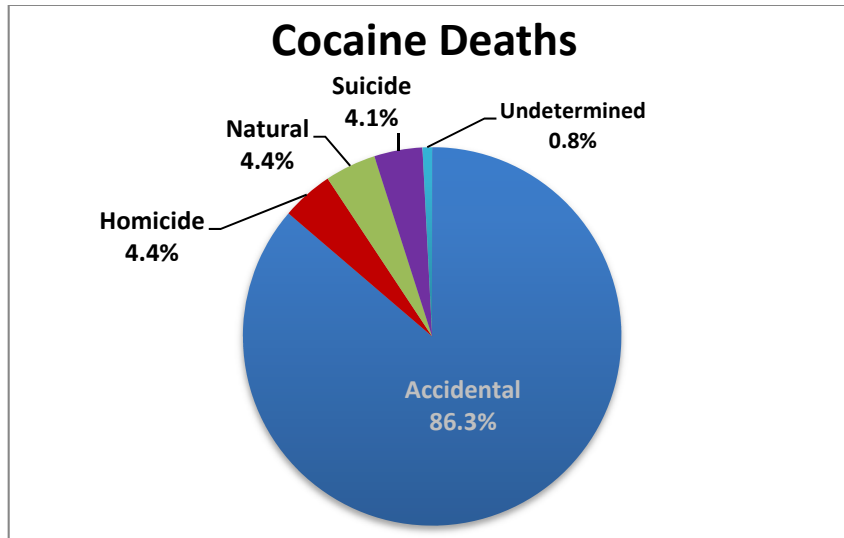
Morphine Deaths



2021 Manner of Death for Reported Drug Occurrences



2021 Manner of Death for Reported Drug Occurrences



Analytes

Below are specific analytes that were identified in the decedents:

Cathinones

- N-Ethylpentylone
- Alpha-PVP
- Alpha PHOP/Alpha PiHP
- N-butyl pentylone
- N, N-dimethylpentylone
- Pentylone
- Butylone
- Methylone
- Eutylone
- Ethylone

Synthetic Cannabinoids

- 4-Fluoro-MDMB-BINACA
- 5-Fluoro-MDMB-PICA
- ADB-BINACA
- MDMB-4en-PINACA
- AB-Pinaca
- ADB-BUTINACA
- 5-fluoro-PICA

Phenethylamines/Piperazines

- 3,4-Methylenedioxyamphetamine
- 3,4-Methylenedioxymethamphetamine
- N-Ethylamphetamine

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.