

Drugs Identified in Deceased Persons by Florida Medical Examiners

2010 Report



Data Collection

The Office of Vital Statistics reported more than 175,000 deaths occurred in Florida during 2010. Of these, the medical examiners reported on 9,001 drug-related deaths (whether the drug was the cause of death or was merely present) through toxicology reports submitted to the Medical Examiners Commission. In order for a death to be considered “drug-related” there needs to be at least one drug identified in the decedent, which is a drug occurrence. The vast majority of these 9,001 decedents (cases) had more than one drug occurrence.

The state’s medical examiners were asked to distinguish between the drugs being the “cause” of death or merely “present” in the body at the time of death. A drug is only indicated as the cause of death when, after examining all evidence and 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. When a medical examiner determines a drug is present or detected in the decedent, the drug may not have played a causal role in the death. It is not uncommon for a decedent to have multiple drugs listed as present. Because decedents often have multiple drugs listed as cause and/or present, drug occurrence data found within this report should not be aggregated.

Although there were deaths involving other drugs in Florida, data was collected on the following drugs for this report:

- ✓ Benzodiazepines (Alprazolam, Alpha-hydroxyalprazolam, Clonazepam, 7-Aminoclonazepam, Chlordiazepoxide, Desalkylflurazepam, Diazepam, Estazolam, Flunitrazepam, Flurazepam, Lorazepam, Midazolam, Nordiazepam, Oxazepam, Temazepam, Triazolam, Alpha-hydroxytriazolam);
- ✓ * Cannabinoids;
- ✓ Carisoprodol/Meprobamate;
- ✓ Cocaine;
- ✓ Ethyl Alcohol;
- ✓ Gamma-Hydroxybutyric Acid (GHB);
- ✓ Inhalants (Chlorodifluoromethane, Difluoroethane, Freon, Helium, Nitrous Oxide, Toluene);
- ✓ Ketamine;
- ✓ Methylated Amphetamines (Amphetamines, Methamphetamine, MDMA, MDA, MDEA, Phentermine);
- ✓ Opioids (Buprenorphine, Codeine, Fentanyl, Heroin, Hydrocodone, Hydromorphone, Meperidine, Methadone, Morphine, Oxycodone, Oxymorphone, Propoxyphene, Tramadol);
- ✓ Phencyclidine (PCP); and
- ✓ Zolpidem.

The Medical Examiners Commission expanded the list of drugs tracked in 2010 to specifically include Alpha-hydroxyalprazolam, Clonazepam, 7-Aminoclonazepam, Chlordiazepoxide, Desalkylflurazepam, Estazolam, Flunitrazepam, Flurazepam, Lorazepam, Midazolam, Nordiazepam, Oxazepam, Temazepam, Triazolam, Alpha-hydroxytriazolam, Phentermine, and Codeine. These drugs were included as “Other” drugs in 2009. The Commission also implemented an all electronic reporting submission process for data. The deadline for data submission was delayed to allow the medical examiner offices 180 days to complete cases and reduce the potential for pending cases that would otherwise not be included in this report.

Questions regarding this report can be directed to Medical Examiners Commission Chairman, Bruce A. Hyma, M.D., or Commission staff.

*Note: The number of cases involving cannabinoids may be under represented due to variations in reporting requirements for each district.

Report Summary

Some general statewide trends for 2010 are listed below:

- ✓ The four most frequently occurring drugs found in decedents were Ethyl Alcohol (3,992), all Benzodiazepines (3,706 including 2,193 Alprazolam occurrences), Oxycodone (2,384), and Cocaine (1,402).
- ✓ The drugs that caused the most deaths were Oxycodone (1,516), all Benzodiazepines (1,304 - includes 981 deaths caused by Alprazolam), Methadone (694), Ethyl Alcohol (572), Cocaine (561), Hydrocodone (315), Diazepam (277), and Morphine (262).
- ✓ The four drugs found in more than 50% of the deaths, in which these drugs were found, were Heroin (82.8%), Methadone (73.8%), Oxycodone (63.6%), and Fentanyl (50.2%). Occurrences of Heroin have decreased by 47.7% and deaths caused by Heroin also decreased by 49.5% when compared with 2009.
- ✓ While more than 50% of the deaths from all tracked inhalants were caused by the drug, the number of occurrences is small for each drug. The majority of inhalant deaths were caused by Difluoroethane.
- ✓ The prescription drugs (Benzodiazepines, Carisoprodol/Meprobamate, Zolpidem, and all Opioids excluding Heroin) tracked through this report continued to be found more often than illicit drugs, both causing death (94%) and merely present (73%). Prescription drugs account for 81% of all drug occurrences in this report when Ethyl Alcohol is excluded. Carisoprodol/Meprobamate are rarely the sole cause of death, but are common as contributing to the cause of multi-drug deaths.
- ✓ Occurrences of Methadone declined 4.6% while Hydrocodone rose by 10.8% when compared with 2009. Also, deaths caused by Methadone (26 less than 2009) decreased this year. Deaths caused by Hydrocodone (50 more than 2009) increased this year.
- ✓ Oxycodone occurrences increased by 22.4% and deaths caused by Oxycodone increased by 27.9% when compared with 2009.
- ✓ Cocaine occurrences decreased by 4.1% however deaths caused by Cocaine increased by 6% when compared with 2009.
- ✓ Occurrences of Fentanyl increased (5.6%), yet deaths caused by Fentanyl decreased by 6.6% when compared with 2009.
- ✓ Alprazolam (Xanax) and Diazepam (Valium) dominate the category of Benzodiazepines, where occurrences of Alprazolam increased by 11.7%, and Diazepam increased by 1.6% when compared to 2009. Alprazolam and Diazepam are rarely the sole cause of death, but are common as contributing to the cause of multi-drug deaths.
- ✓ 5,647 (7.1% more than 2009) individuals died with one or more prescription drugs in their system. The drugs were identified as both the cause of death and present in the decedent. These drugs may have also been mixed with illicit drugs and alcohol.
- ✓ 2,710 (8.9% more than 2009) 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.

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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 *4
Madison *2
Suwannee *4

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
Osceola

District 10

Hardee
Highlands
Polk

District 11

Dade

District 12

DeSoto
Manatee
Sarasota

District 13

Hillsborough

District 14

Bay
Calhoun
Gulf
Holmes
Jackson
Washington

District 15

Palm Beach

District 16

Monroe

District 17

Broward

District 18

Brevard

District 19

Indian River

Martin

Okeechobee

St. Lucie

District 20

Collier

District 21

Glades

Hendry

Lee

District 22

Charlotte

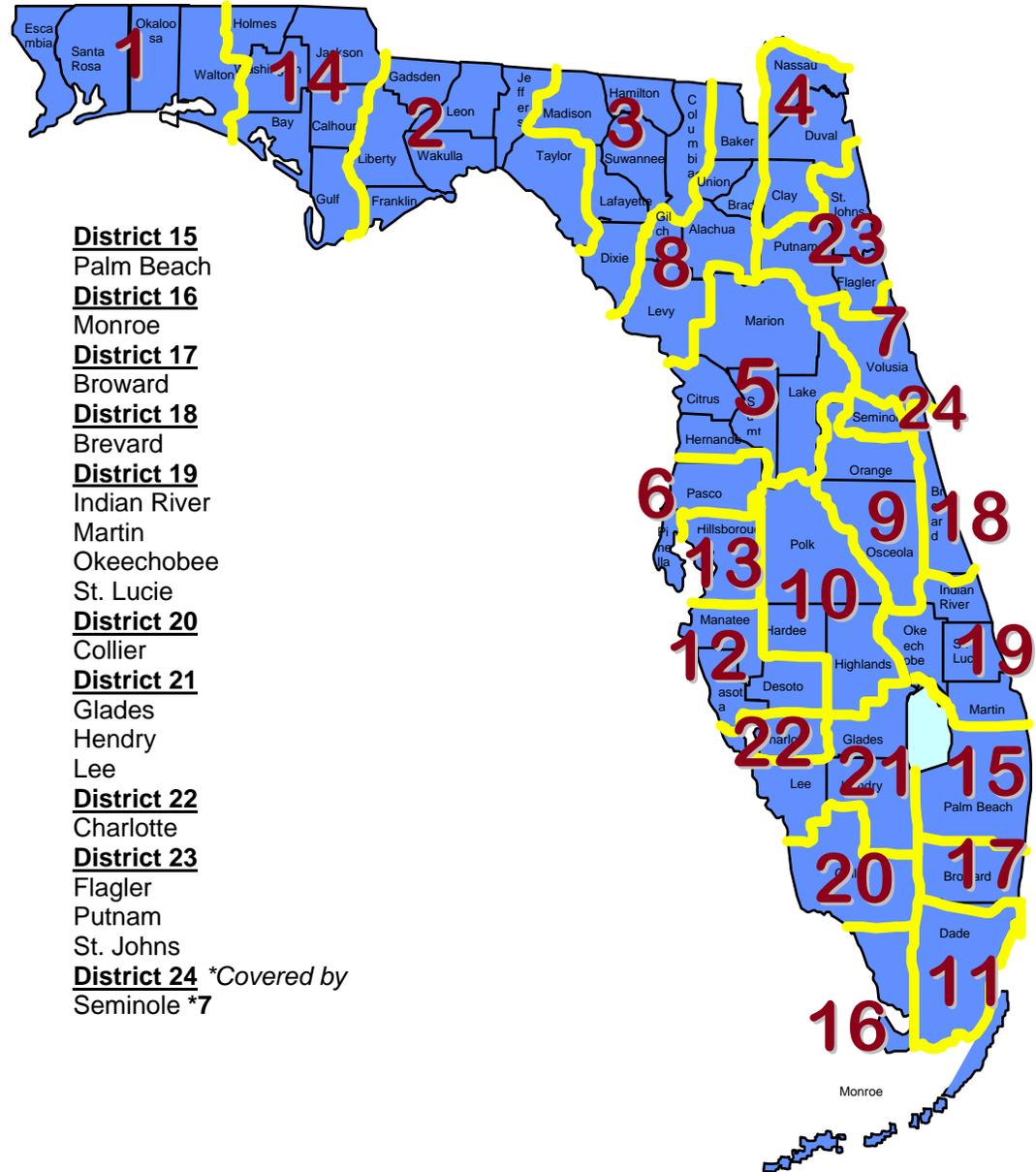
District 23

Flagler

Putnam

St. Johns

District 24 *Covered by
Seminole *7



Summary of Drug-Related Deaths 2010

Drug Found in Body		Total Occurrences	Cause	Present
Ethanol		3,992	572	3,420
Amphetamines	All Methylated Amphetamine cases*	294	89	205
	Amphetamine	176	36	140
	Methamphetamine	132	53	79
	MDMA	67	13	54
	MDA	40	3	37
	MDEA	1	0	1
	Phentermine	15	2	13
	Benzodiazepines	All Benzodiazepine cases*	3,706	1,304
Alprazolam		2,193	981	1,212
Alpha-hydroxyalprazolam		258	19	239
Clonazepam		131	36	95
7-Aminoclonazepam		256	24	232
Chlordiazepoxide		86	9	77
Desalkylflurazepam		5	2	3
Diazepam		906	277	629
Estazolam		1	0	1
Flunitrazepam		0	0	0
Flurazepam		8	4	4
Lorazepam		224	25	199
Midazolam		113	2	111
Nordiazepam		828	151	677
Oxazepam		472	61	411
Temazepam		699	134	565
Triazolam		3	1	2
Alpha-hydroxytriazolam		5	0	5

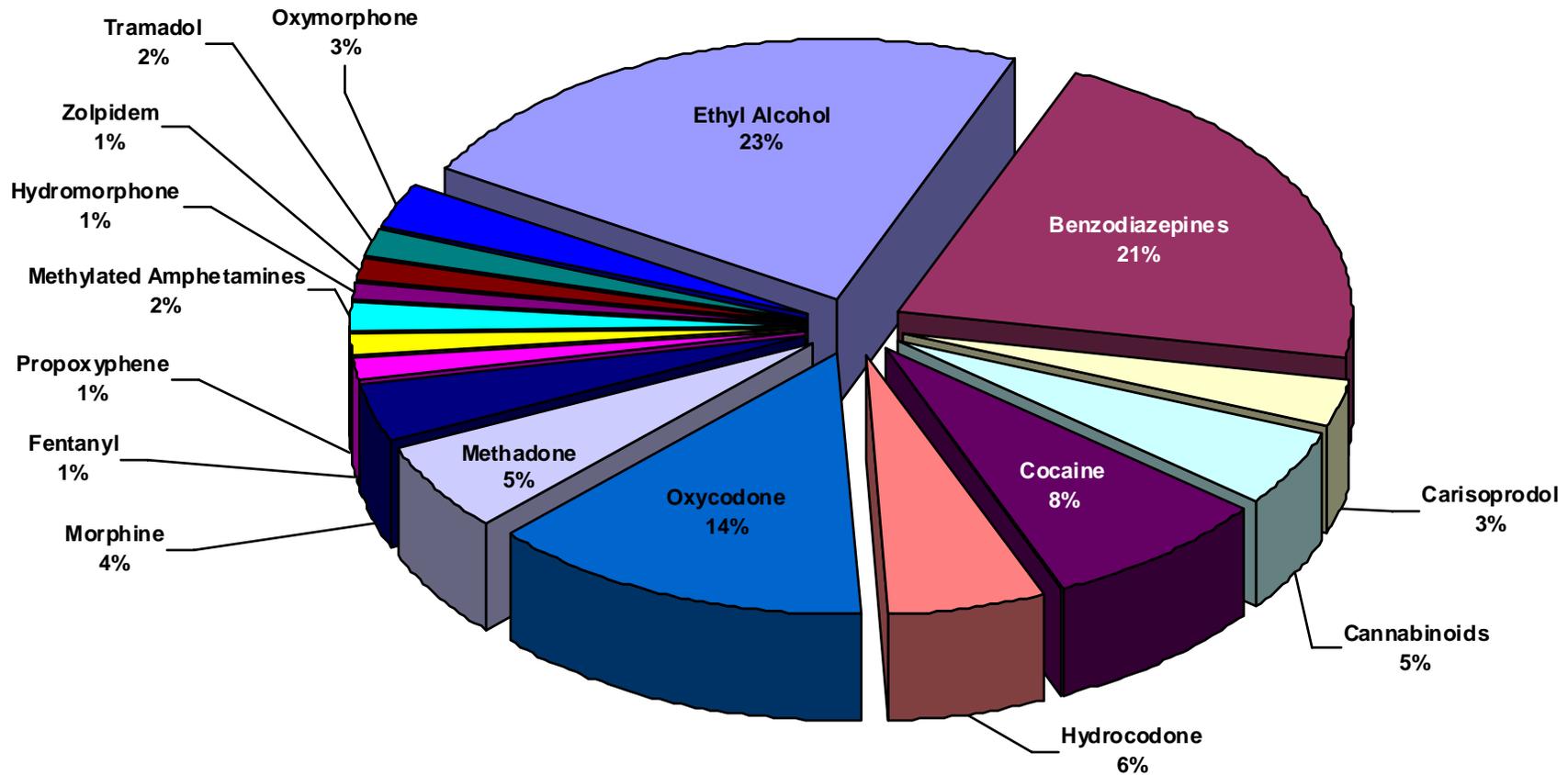
**Note: Many of the deaths were found to have several drugs contributing to the death, thus the count of specific drugs listed is greater than the number of cases.*

Summary of Drug-Related Deaths (continued)

	Drug Found in Body	Total Occurrences	Cause	Present
Inhalants	Chlorodifluoromethane	3	3	0
	Difluoroethane	22	18	4
	Freon	1	1	0
	Helium	9	9	0
	Nitrous Oxide	1	1	0
	Toluene	2	2	0
Opioids	Buprenorphine	16	7	9
	Codeine	159	33	126
	Fentanyl	227	114	113
	Heroin	58	48	10
	Hydrocodone	958	315	643
	Hydromorphone	213	60	153
	Meperidine	20	3	17
	Methadone	940	694	246
	Morphine	641	262	379
	Oxycodone	2,384	1,516	868
	Oxymorphone	493	132	361
	Propoxyphene	224	57	167
	Tramadol	275	55	220
Other	Cannabinoids	826	0	826
	Carisoprodol/Meprobamate	513	111	402
	Cocaine	1,402	561	841
	GHB	8	7	1
	Ketamine	2	0	2
	Phencyclidine (PCP)	0	0	0
	Zolpidem	240	44	196

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

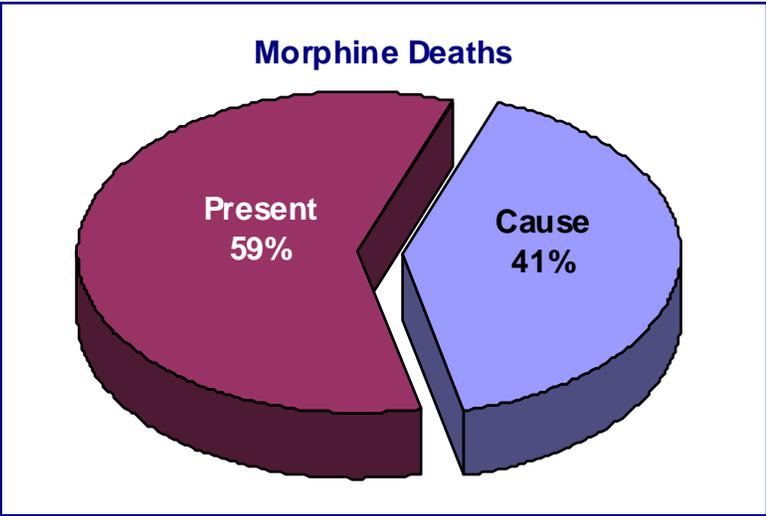
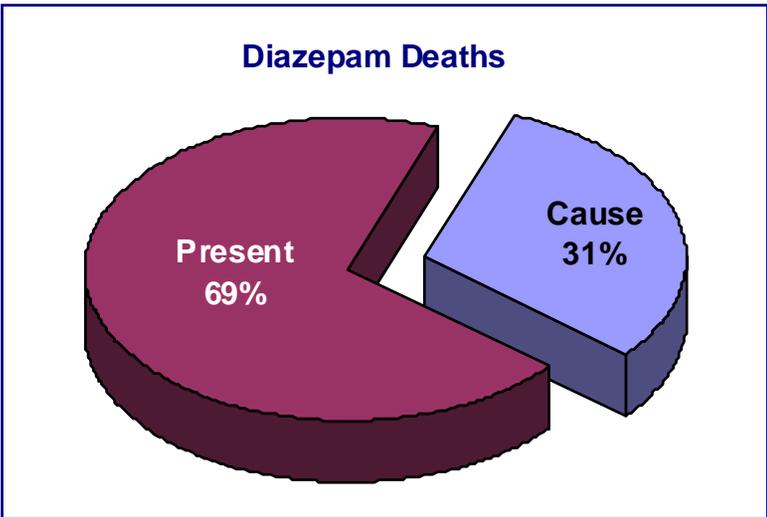
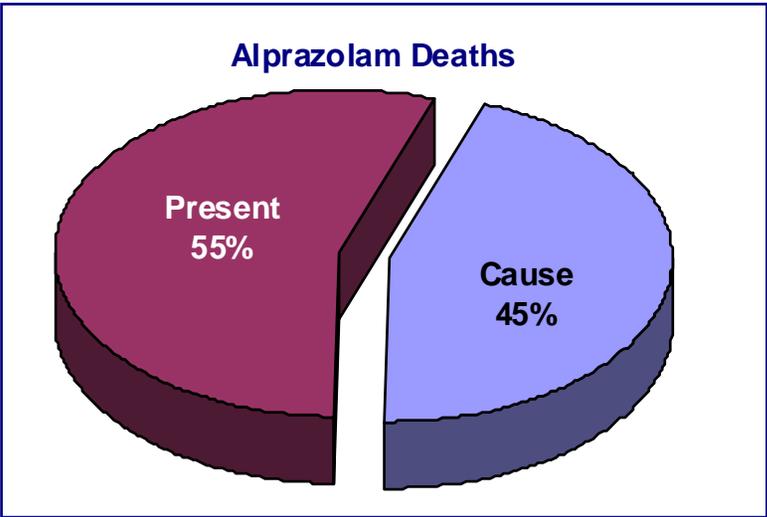
Frequency of Occurrence of Drugs in Decedents January – December 2010



Codeine, Heroin, GHB, Ketamine, Freon, Meperidine, and all inhalants constituted less than 1% of the drug frequencies.

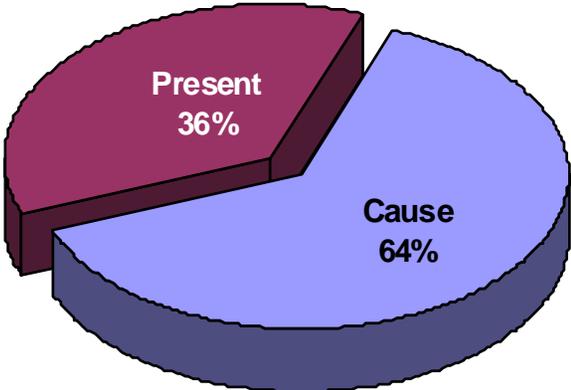
Note: Many of the deaths have several drugs contributing to the death. The count of drugs listed is greater than the number of deaths. Do not add across drugs.

Drug Detected at Death: Cause vs. Present

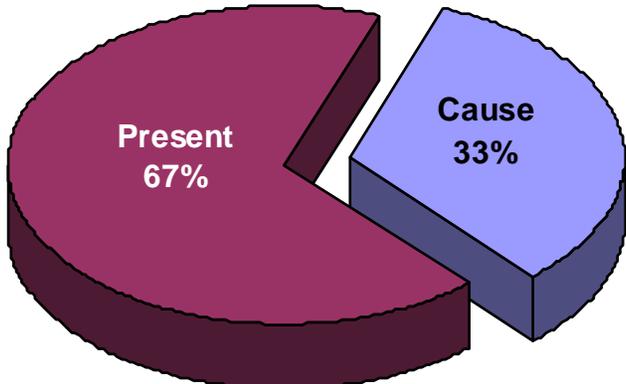


Drug Detected at Death: Cause vs. Present

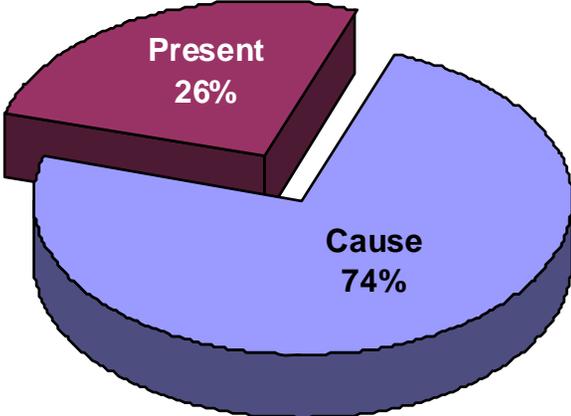
Oxycodone Deaths



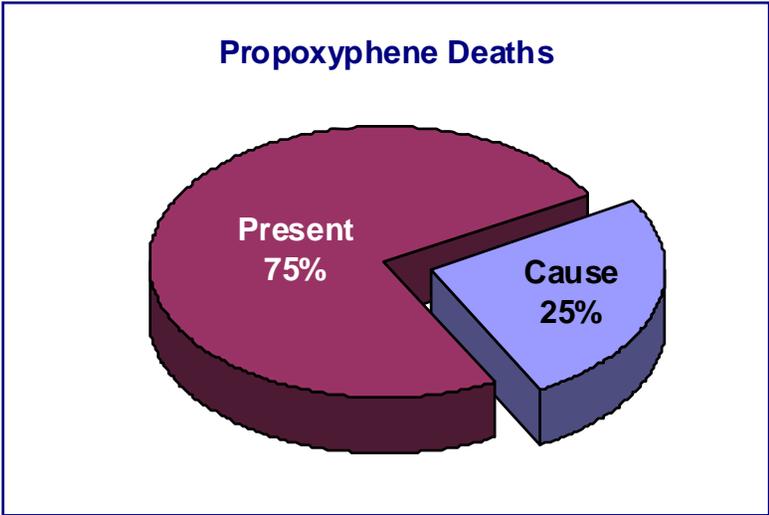
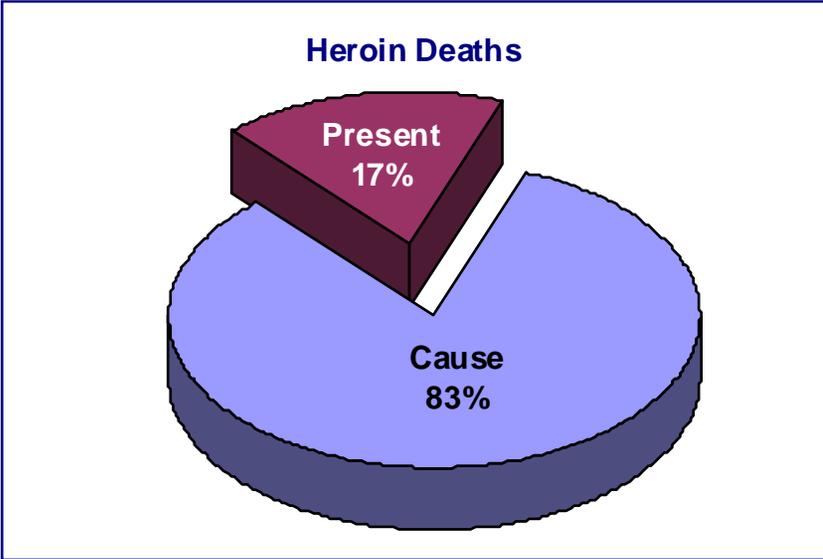
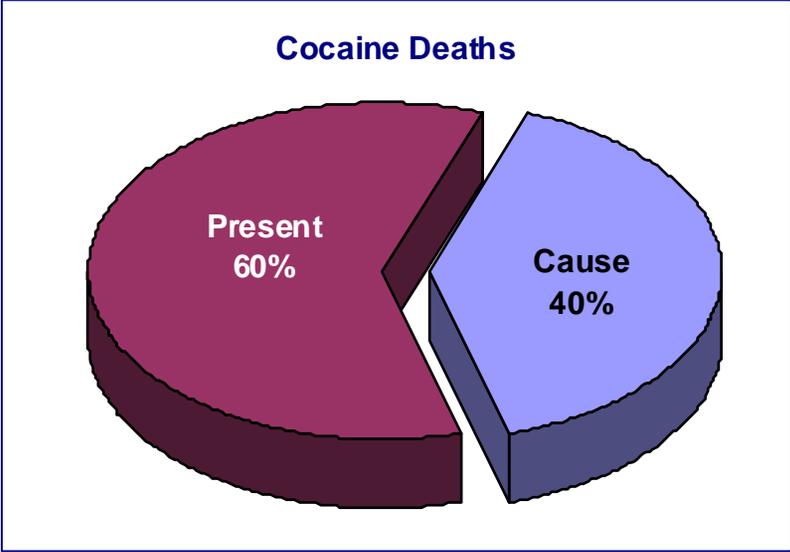
Hydrocodone Deaths



Methadone Deaths



Drug Detected at Death: Cause vs. Present



Comparison of Drug-Related Deaths 2009 vs. 2010

Drug Found in Body		2009	2010	Percentage Change
	Ethanol	4,046	3,992	-1.3%
Amphetamines	All Methylated Amphetamine cases*	183	294	60.7%
	Amphetamine	129	176	36.4%
	Methamphetamine	81	132	*
	MDMA	32	67	*
	MDA	14	40	*
	MDEA	1	1	*
	Phentermine	6^	15	*
	Benzodiazepines	All Benzodiazepine cases*	3,379	3,706
Alprazolam		1,963	2,193	11.7%
Alpha-hydroxyalprazolam		94^	258	*
Clonazepam		193^	131	*
7-Aminoclonazepam		105^	256	*
Chlordiazepoxide		76^	86	*
Desalkylflurazepam		8^	5	*
Diazepam		892	906	1.6%
Estazolam		2^	1	*
Flunitrazepam		0	0	0%
Flurazepam		6^	8	*
Lorazepam		159^	224	*
Midazolam		93^	113	*
Nordiazepam		459^	828	80.4%
Oxazepam		346^	472	36.4%
Temazepam		524^	699	33.4%
Triazolam		2^	3	*
Alpha-hydroxytriazolam		0^	5	*

*Note: Due to small number of occurrences, percentage change was not calculated. ^Note: Reported differently as "other drugs" in 2009.

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

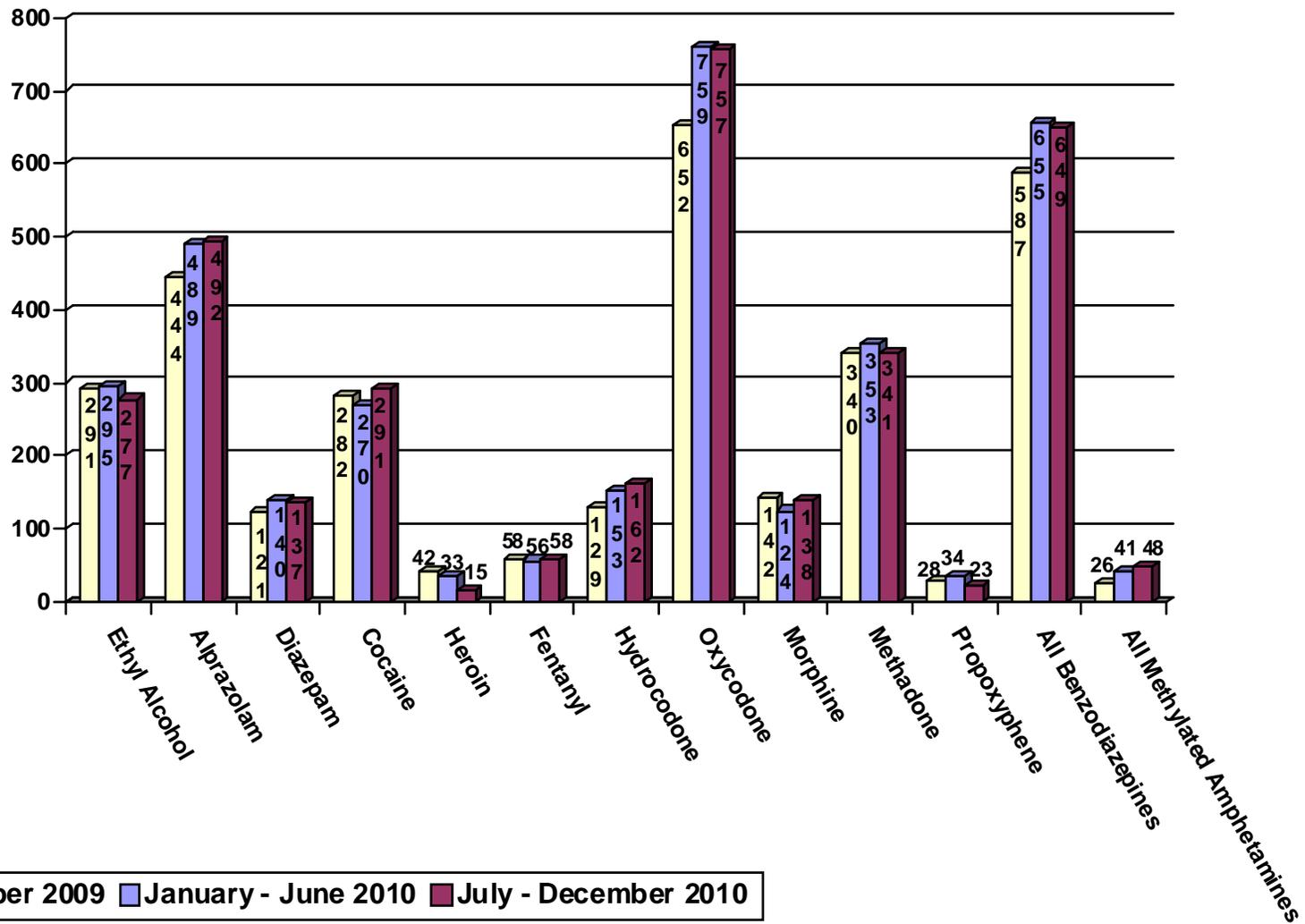
Comparison of Drug-Related Deaths (continued)

	Drug Found in Body	2009	2010	Percentage Change
Inhalants	Chlorodifluoromethane	3 [^]	3	*
	Difluoroethane	12	22	*
	Freon	1	1	*
	Helium	6 [^]	9	*
	Nitrous Oxide	3	1	*
	Toluene	0 [^]	2	*
Opioids	Buprenorphine	6	16	*
	Codeine	226 [^]	159	-29.6%
	Fentanyl	215	227	5.6%
	Heroin	111	58	-47.7%
	Hydrocodone	865	958	10.8%
	Hydromorphone	212	213	0.5%
	Meperidine	24	20	*
	Methadone	985	940	-4.6%
	Morphine	664	641	-3.5%
	Oxycodone	1,948	2,384	22.4%
	Oxymorphone	236	493	108.9%
	Propoxyphene	311	224	-28.0%
	Tramadol	268	275	2.6%
Other	Cannabinoids	817	826	1.1%
	Carisoprodol/Meprobamate	455	513	12.7%
	Cocaine	1,462	1,402	-4.1%
	GHB	6	8	*
	Ketamine	4	2	*
	Phencyclidine (PCP)	2	0	*
	Zolpidem	179	240	34.1%

**Note: Due to small number of occurrences, percentage change was not calculated. ^Note: Reported differently as "other drugs" in 2009.*

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

Drug Caused Deaths July 2009 – December 2010



July - December 2009
 January - June 2010
 July - December 2010

Note: Due to small number of occurrences, some drugs are not included in the above chart.

Alprazolam Deaths January – December 2010

Medical Examiner District & 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 Bch
16	Florida Keys
17	Ft. Lauderdale
18	Melbourne
19	Ft. Pierce
20	Naples
21	Ft. Myers
22	Port Charlotte
23	St. Augustine
24	Sanford
Statewide Totals	

Total Deaths with Alprazolam		
Total	Cause	Present
63	30	33
14	2	12
23	4	19
136	34	102
115	31	84
287	177	110
116	25	91
46	24	22
139	48	91
75	6	69
124	48	76
119	80	39
151	106	45
32	16	16
124	70	54
10	8	2
235	135	100
100	44	56
73	10	63
32	22	10
59	23	36
25	5	20
44	24	20
51	9	42
2,193	981	1,212

Deaths with Alprazolam Only		
Total	Cause	Present
7	2	5
0	0	0
3	0	3
9	2	7
9	0	9
5	1	4
7	0	7
6	0	6
4	0	4
2	0	2
10	0	10
6	1	5
10	0	10
1	0	1
5	1	4
0	0	0
21	3	18
5	0	5
6	1	5
5	2	3
1	0	1
2	0	2
0	0	0
1	0	1
125	13	112

Deaths with Alprazolam in Combination with Other Drugs		
Total	Cause	Present
56	28	28
14	2	12
20	4	16
127	32	95
106	31	75
282	176	106
109	25	84
40	24	16
135	48	87
73	6	67
114	48	66
113	79	34
141	106	35
31	16	15
119	69	50
10	8	2
214	132	82
95	44	51
67	9	58
27	20	7
58	23	35
23	5	18
44	24	20
50	9	41
2,068	968	1,100

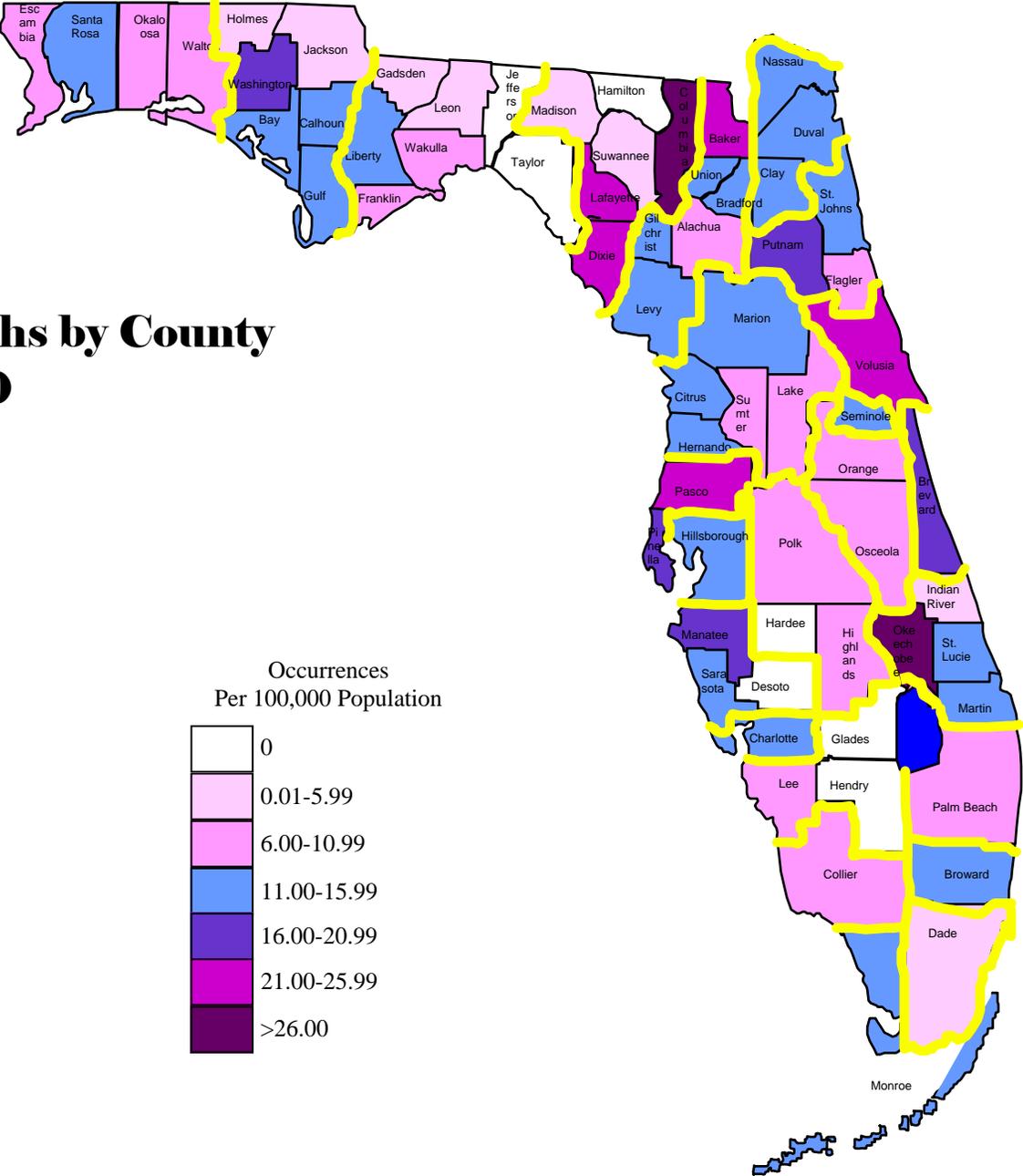
Alprazolam Deaths by Age January – December 2010

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	63
2	Tallahassee	14
3	Live Oak	23
4	Jacksonville	136
5	Leesburg	115
6	St. Petersburg	287
7	Daytona Beach	116
8	Gainesville	46
9	Orlando	139
10	Lakeland	75
11	Miami	124
12	Sarasota	119
13	Tampa	151
14	Panama City	32
15	West Palm Bch	124
16	Florida Keys	10
17	Ft. Lauderdale	235
18	Melbourne	100
19	Ft. Pierce	73
20	Naples	32
21	Ft. Myers	59
22	Port Charlotte	25
23	St. Augustine	44
24	Sanford	51
Statewide Totals		2,193

Deaths Caused by Alprazolam					
Age of Decedent					
Total	< 18	18-25	26-34	35-50	>50
30	1	5	5	16	3
2	0	0	0	0	2
4	0	0	3	0	1
34	0	4	9	10	11
31	0	3	9	13	6
177	3	26	38	72	38
25	0	4	3	10	8
24	1	3	8	8	4
48	2	6	19	14	7
6	0	0	1	2	3
48	2	5	10	17	14
80	1	8	23	33	15
106	3	17	20	49	17
16	0	4	1	8	3
70	0	11	26	22	11
8	1	0	1	4	2
135	0	9	28	58	40
44	0	6	16	12	10
10	0	1	1	5	3
22	0	2	11	4	5
23	1	5	8	5	4
5	0	1	1	2	1
24	0	3	11	3	7
9	0	1	4	3	1
981	15	124	256	370	216

Alprazolam Present					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
33	0	5	2	10	16
12	0	2	3	3	4
19	0	3	2	7	7
102	0	6	21	49	26
84	0	11	16	38	19
110	1	10	25	39	35
91	0	15	24	28	24
22	1	0	5	5	11
91	1	5	25	28	32
69	0	5	17	29	18
76	0	6	6	22	42
39	0	2	3	17	17
45	0	2	4	19	20
16	0	1	3	4	8
54	0	6	12	15	21
2	0	1	0	0	1
100	1	16	9	32	42
56	1	8	17	21	9
63	0	5	12	30	16
10	1	0	3	4	2
36	0	7	6	11	12
20	0	2	3	10	5
20	0	9	4	5	2
42	0	9	7	19	7
1,212	6	136	229	445	396

Alprazolam Deaths by County 2010



Diazepam Deaths January – December 2010

Medical Examiner District & 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 Bch
16	Florida Keys
17	Ft. Lauderdale
18	Melbourne
19	Ft. Pierce
20	Naples
21	Ft. Myers
22	Port Charlotte
23	St. Augustine
24	Sanford
Statewide Totals	

Total Deaths with Diazepam		
Total	Cause	Present
16	11	5
8	0	8
16	1	15
65	5	60
53	2	51
145	92	53
41	0	41
26	7	19
61	8	53
22	2	20
45	4	41
45	25	20
16	11	5
13	5	8
62	27	35
8	6	2
80	36	44
49	9	40
41	0	41
16	7	9
50	13	37
2	0	2
14	6	8
12	0	12
906	277	629

Deaths with Diazepam Only		
Total	Cause	Present
0	0	0
0	0	0
0	0	0
3	0	3
0	0	0
0	0	0
0	0	0
1	0	1
2	0	2
0	0	0
1	0	1
3	0	3
1	0	1
0	0	0
4	0	4
0	0	0
7	1	6
1	0	1
10	0	10
0	0	0
5	0	5
0	0	0
0	0	0
0	0	0
38	1	37

Deaths with Diazepam in Combination with Other Drugs		
Total	Cause	Present
16	11	5
8	0	8
16	1	15
62	5	57
53	2	51
145	92	53
41	0	41
25	7	18
59	8	51
22	2	20
44	4	40
42	25	17
15	11	4
13	5	8
58	27	31
8	6	2
73	35	38
48	9	39
31	0	31
16	7	9
45	13	32
2	0	2
14	6	8
12	0	12
868	276	592

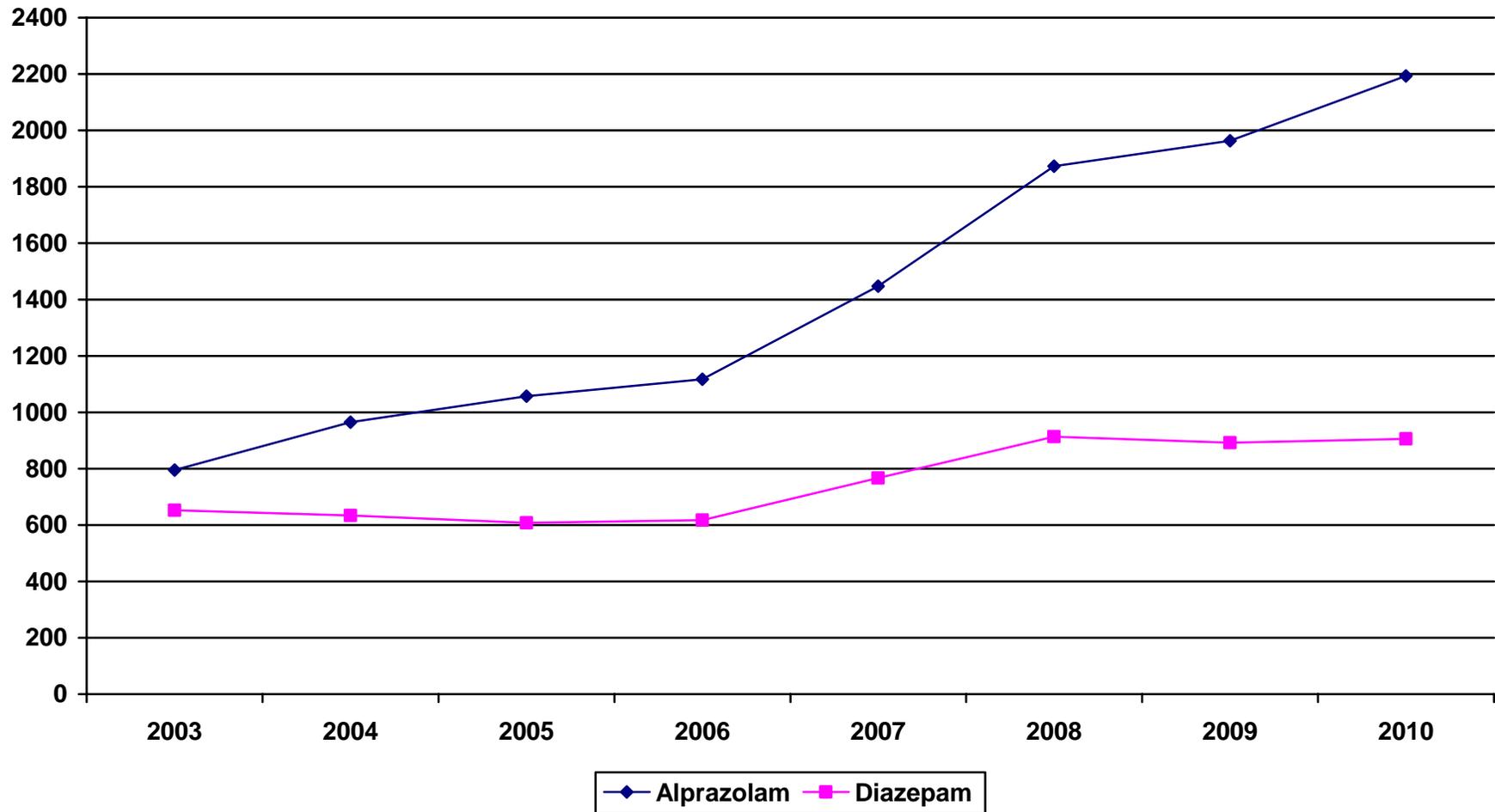
Diazepam Deaths by Age January – December 2010

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	16
2	Tallahassee	8
3	Live Oak	16
4	Jacksonville	65
5	Leesburg	53
6	St. Petersburg	145
7	Daytona Beach	41
8	Gainesville	26
9	Orlando	61
10	Lakeland	22
11	Miami	45
12	Sarasota	45
13	Tampa	16
14	Panama City	13
15	West Palm Bch	62
16	Florida Keys	8
17	Ft. Lauderdale	80
18	Melbourne	49
19	Ft. Pierce	41
20	Naples	16
21	Ft. Myers	50
22	Port Charlotte	2
23	St. Augustine	14
24	Sanford	12
Statewide Totals		906

Deaths Caused by Diazepam					
Age of Decedent					
Total	< 18	18-25	26-34	35-50	>50
11	0	0	3	6	2
0	0	0	0	0	0
1	0	0	0	0	1
5	0	0	1	3	1
2	0	0	1	1	0
92	1	8	20	41	22
0	0	0	0	0	0
7	0	1	3	3	0
8	0	0	3	3	2
2	0	0	0	2	0
4	0	0	0	1	3
25	0	1	6	5	13
11	0	1	2	2	6
5	0	0	1	3	1
27	0	1	5	12	9
6	0	1	1	1	3
36	0	1	3	16	16
9	0	1	1	4	3
0	0	0	0	0	0
7	0	0	1	2	4
13	0	0	5	4	4
0	0	0	0	0	0
6	0	1	2	1	2
0	0	0	0	0	0
277	1	16	58	110	92

Diazepam Present					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
5	0	1	0	0	4
8	0	1	0	5	2
15	0	2	3	2	8
60	0	4	6	26	24
51	0	1	7	20	23
53	0	6	6	19	22
41	0	1	6	15	19
19	0	0	3	1	15
53	2	3	8	15	25
20	0	0	1	9	10
41	0	1	2	12	26
20	0	1	1	11	7
5	0	0	0	3	2
8	0	0	1	4	3
35	0	2	6	11	16
2	0	0	0	0	2
44	0	2	2	15	25
40	0	4	7	15	14
41	0	0	3	20	18
9	0	0	1	6	2
37	0	0	4	19	14
2	0	0	0	1	1
8	0	0	0	5	3
12	0	0	1	7	4
629	2	29	68	241	289

Historical Occurrences of Alprazolam and Diazepam (present and cause)



Oxycodone Deaths January – December 2010

Medical Examiner District & 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 Bch
16	Florida Keys
17	Ft. Lauderdale
18	Melbourne
19	Ft. Pierce
20	Naples
21	Ft. Myers
22	Port Charlotte
23	St. Augustine
24	Sanford
Statewide Totals	

Total Deaths with Oxycodone		
Total	Cause	Present
34	18	16
15	5	10
30	19	11
104	71	33
137	83	54
393	275	118
114	62	52
45	23	22
166	88	78
50	10	40
100	47	53
111	86	25
190	141	49
19	10	9
177	135	42
17	12	5
236	165	71
127	77	50
85	54	31
38	29	9
77	38	39
27	12	15
52	28	24
40	28	12
2,384	1,516	868

Deaths with Oxycodone Only		
Total	Cause	Present
1	0	1
1	0	1
3	0	3
3	0	3
13	9	4
18	11	7
4	1	3
5	1	4
21	1	20
3	0	3
10	0	10
7	4	3
14	7	7
2	1	1
24	14	10
0	0	0
22	13	9
11	2	9
10	4	6
0	0	0
9	1	8
0	0	0
4	2	2
1	0	1
186	71	115

Deaths with Oxycodone in Combination with Other Drugs		
Total	Cause	Present
33	18	15
14	5	9
27	19	8
101	71	30
124	74	50
375	264	111
110	61	49
40	22	18
145	87	58
47	10	37
90	47	43
104	82	22
176	134	42
17	9	8
153	121	32
17	12	5
214	152	62
116	75	41
75	50	25
38	29	9
68	37	31
27	12	15
48	26	22
39	28	11
2,198	1,445	753

Oxycodone Deaths by Age January – December 2010

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	34
2	Tallahassee	15
3	Live Oak	30
4	Jacksonville	104
5	Leesburg	137
6	St. Petersburg	393
7	Daytona Beach	114
8	Gainesville	45
9	Orlando	166
10	Lakeland	50
11	Miami	100
12	Sarasota	111
13	Tampa	190
14	Panama City	19
15	West Palm Bch	177
16	Florida Keys	17
17	Ft. Lauderdale	236
18	Melbourne	127
19	Ft. Pierce	85
20	Naples	38
21	Ft. Myers	77
22	Port Charlotte	27
23	St. Augustine	52
24	Sanford	40
Statewide Totals		2,384

Deaths Caused by Oxycodone					
Age of Decedent					
Total	< 18	18-25	26-34	35-50	>50
18	0	3	4	10	1
5	0	1	2	1	1
19	0	1	6	7	5
71	0	6	19	29	17
83	2	10	19	37	15
275	1	33	62	108	71
62	0	9	16	25	12
23	1	2	8	9	3
88	2	9	23	31	23
10	0	0	1	6	3
47	2	6	7	18	14
86	2	9	26	33	16
141	0	23	25	63	30
10	0	5	1	4	0
135	0	16	30	56	33
12	0	0	2	4	6
165	0	14	28	76	47
77	0	11	30	22	14
54	0	3	7	34	10
29	1	2	11	8	7
38	1	7	14	7	9
12	0	0	1	8	3
28	0	5	8	11	4
28	0	2	11	11	4
1,516	12	177	361	618	348

Oxycodone Present					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
16	0	3	4	5	4
10	0	0	1	4	5
11	0	1	1	2	7
33	0	5	5	17	6
54	0	7	12	22	13
118	1	17	18	39	43
52	0	3	18	15	16
22	0	1	8	1	12
78	0	5	12	24	37
40	0	1	9	17	13
53	0	2	7	14	30
25	1	2	4	9	9
49	0	1	5	22	21
9	0	0	3	2	4
42	0	4	13	6	19
5	0	1	1	1	2
71	0	7	8	29	27
50	1	3	7	19	20
31	0	2	4	10	15
9	0	0	1	4	4
39	1	3	8	18	9
15	0	1	0	7	7
24	0	3	3	9	9
12	0	1	1	6	4
868	4	73	153	302	336

Hydrocodone Deaths January – December 2010

Medical Examiner District & 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 Bch
16	Florida Keys
17	Ft. Lauderdale
18	Melbourne
19	Ft. Pierce
20	Naples
21	Ft. Myers
22	Port Charlotte
23	St. Augustine
24	Sanford
Statewide Totals	

Total Deaths with Hydrocodone		
Total	Cause	Present
47	8	39
13	5	8
22	4	18
116	26	90
69	27	42
146	51	95
39	15	24
18	4	14
73	15	58
30	1	29
37	18	19
28	12	16
52	23	29
22	6	16
33	17	16
8	2	6
45	25	20
48	14	34
33	8	25
13	8	5
27	4	23
3	2	1
25	13	12
11	7	4
958	315	643

Deaths with Hydrocodone Only		
Total	Cause	Present
3	0	3
1	0	1
3	0	3
17	3	14
6	1	5
11	3	8
2	1	1
5	1	4
20	0	20
4	0	4
3	0	3
4	0	4
12	1	11
2	0	2
1	1	0
2	0	2
6	0	6
9	2	7
6	1	5
0	0	0
4	1	3
0	0	0
5	2	3
0	0	0
126	17	109

Deaths with Hydrocodone in Combination with Other Drugs		
Total	Cause	Present
44	8	36
12	5	7
19	4	15
99	23	76
63	26	37
135	48	87
37	14	23
13	3	10
53	15	38
26	1	25
34	18	16
24	12	12
40	22	18
20	6	14
32	16	16
6	2	4
39	25	14
39	12	27
27	7	20
13	8	5
23	3	20
3	2	1
20	11	9
11	7	4
832	298	534

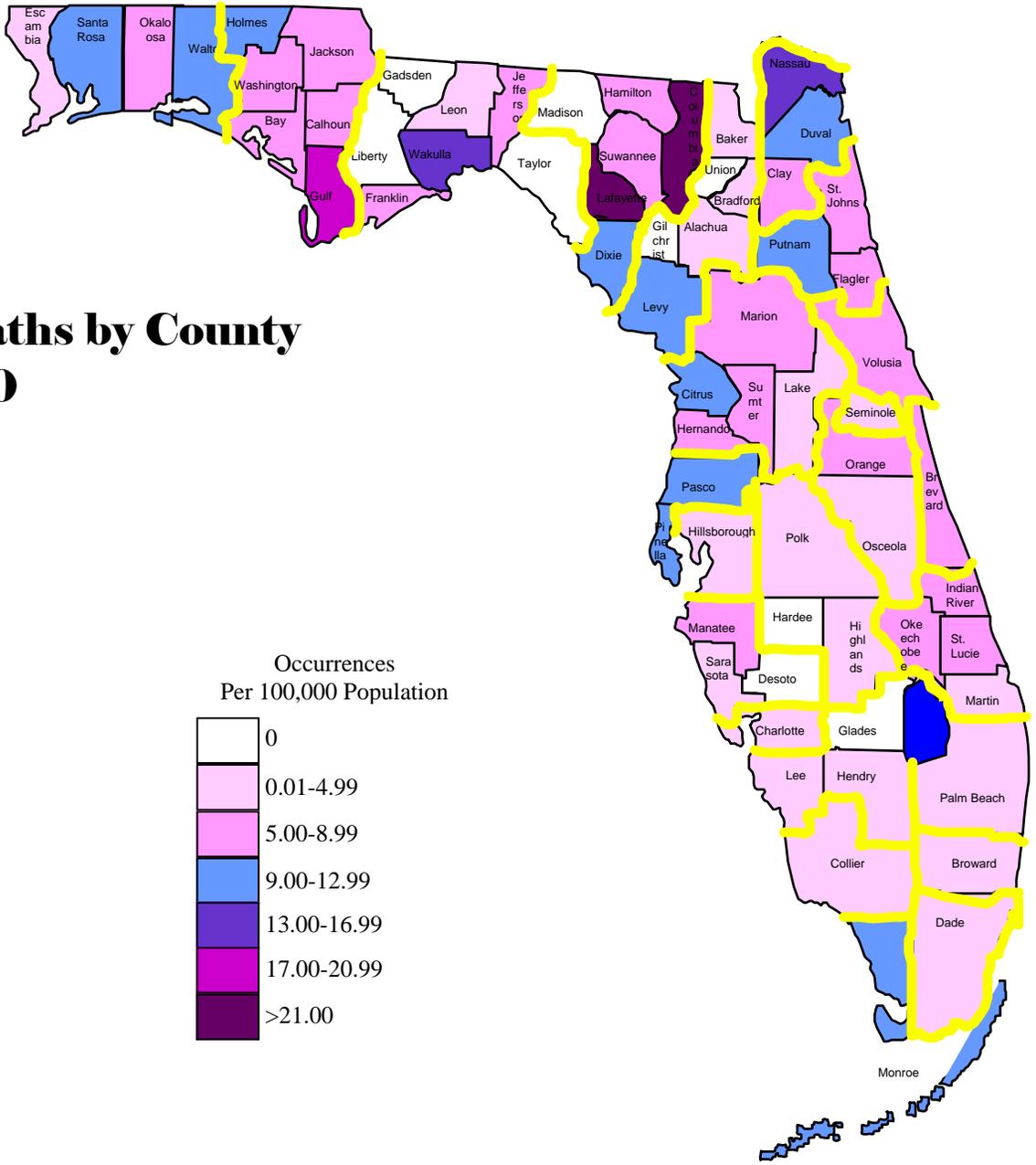
Hydrocodone Deaths by Age January – December 2010

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	47
2	Tallahassee	13
3	Live Oak	22
4	Jacksonville	116
5	Leesburg	69
6	St. Petersburg	146
7	Daytona Beach	39
8	Gainesville	18
9	Orlando	73
10	Lakeland	30
11	Miami	37
12	Sarasota	28
13	Tampa	52
14	Panama City	22
15	West Palm Bch	33
16	Florida Keys	8
17	Ft. Lauderdale	45
18	Melbourne	48
19	Ft. Pierce	33
20	Naples	13
21	Ft. Myers	27
22	Port Charlotte	3
23	St. Augustine	25
24	Sanford	11
Statewide Totals		958

Deaths Caused by Hydrocodone					
Age of Decedent					
Total	< 18	18-25	26-34	35-50	>50
8	0	0	0	3	5
5	0	0	2	2	1
4	0	0	1	2	1
26	0	2	4	11	9
27	0	2	3	13	9
51	1	3	6	17	24
15	0	0	6	4	5
4	0	0	1	1	2
15	0	0	6	3	6
1	0	1	0	0	0
18	1	0	3	5	9
12	0	0	1	6	5
23	0	1	2	10	10
6	0	0	1	4	1
17	0	0	2	12	3
2	0	0	1	1	0
25	0	0	3	9	13
14	0	0	2	4	8
8	0	0	1	3	4
8	0	0	1	5	2
4	0	0	0	2	2
2	0	0	0	1	1
13	0	1	2	4	6
7	0	0	2	2	3
315	2	10	50	124	129

Hydrocodone Present					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
39	0	3	6	18	12
8	0	0	0	4	4
18	0	3	1	6	8
90	0	3	15	31	41
42	0	2	3	18	19
95	1	6	10	38	40
24	0	3	3	11	7
14	0	0	3	2	9
58	1	0	6	14	37
29	0	1	2	8	18
19	1	0	0	3	15
16	0	1	1	6	8
29	0	0	3	13	13
16	0	1	3	6	6
16	0	0	2	6	8
6	0	0	0	2	4
20	0	1	2	5	12
34	0	0	7	10	17
25	0	1	1	6	17
5	0	0	1	1	3
23	0	2	1	7	13
1	0	0	1	0	0
12	0	1	1	5	5
4	0	0	0	3	1
643	3	28	72	223	317

Hydrocodone Deaths by County 2010



Methadone Deaths January – December 2010

Medical Examiner District & 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 Bch
16	Florida Keys
17	Ft. Lauderdale
18	Melbourne
19	Ft. Pierce
20	Naples
21	Ft. Myers
22	Port Charlotte
23	St. Augustine
24	Sanford
Statewide Totals	

Total Deaths with Methadone		
Total	Cause	Present
41	29	12
8	4	4
16	8	8
75	52	23
88	74	14
168	127	41
25	19	6
22	17	5
57	42	15
25	6	19
15	10	5
59	47	12
91	72	19
12	8	4
47	40	7
6	6	0
45	31	14
35	29	6
19	10	9
11	8	3
39	24	15
8	5	3
19	17	2
9	9	0
940	694	246

Deaths with Methadone Only		
Total	Cause	Present
4	3	1
1	0	1
1	0	1
4	4	0
9	8	1
14	8	6
3	2	1
5	3	2
7	3	4
3	0	3
2	0	2
5	4	1
12	7	5
0	0	0
4	4	0
0	0	0
4	4	0
1	1	0
1	0	1
2	1	1
5	4	1
0	0	0
3	2	1
0	0	0
90	58	32

Deaths with Methadone in Combination with Other Drugs		
Total	Cause	Present
37	26	11
7	4	3
15	8	7
71	48	23
79	66	13
154	119	35
22	17	5
17	14	3
50	39	11
22	6	16
13	10	3
54	43	11
79	65	14
12	8	4
43	36	7
6	6	0
41	27	14
34	28	6
18	10	8
9	7	2
34	20	14
8	5	3
16	15	1
9	9	0
850	636	214

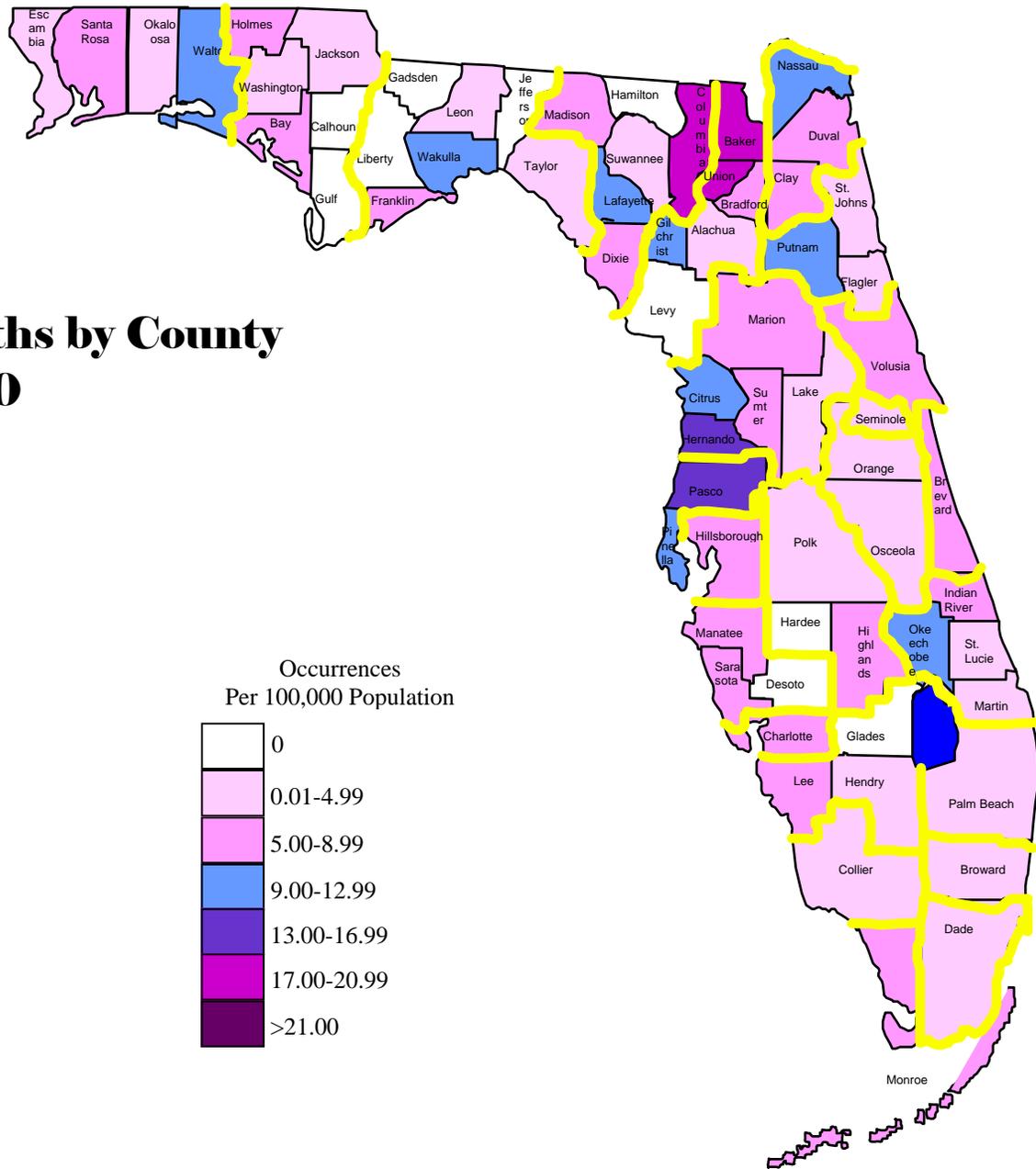
Methadone Deaths by Age January – December 2010

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	41
2	Tallahassee	8
3	Live Oak	16
4	Jacksonville	75
5	Leesburg	88
6	St. Petersburg	168
7	Daytona Beach	25
8	Gainesville	22
9	Orlando	57
10	Lakeland	25
11	Miami	15
12	Sarasota	59
13	Tampa	91
14	Panama City	12
15	West Palm Bch	47
16	Florida Keys	6
17	Ft. Lauderdale	45
18	Melbourne	35
19	Ft. Pierce	19
20	Naples	11
21	Ft. Myers	39
22	Port Charlotte	8
23	St. Augustine	19
24	Sanford	9
Statewide Totals		940

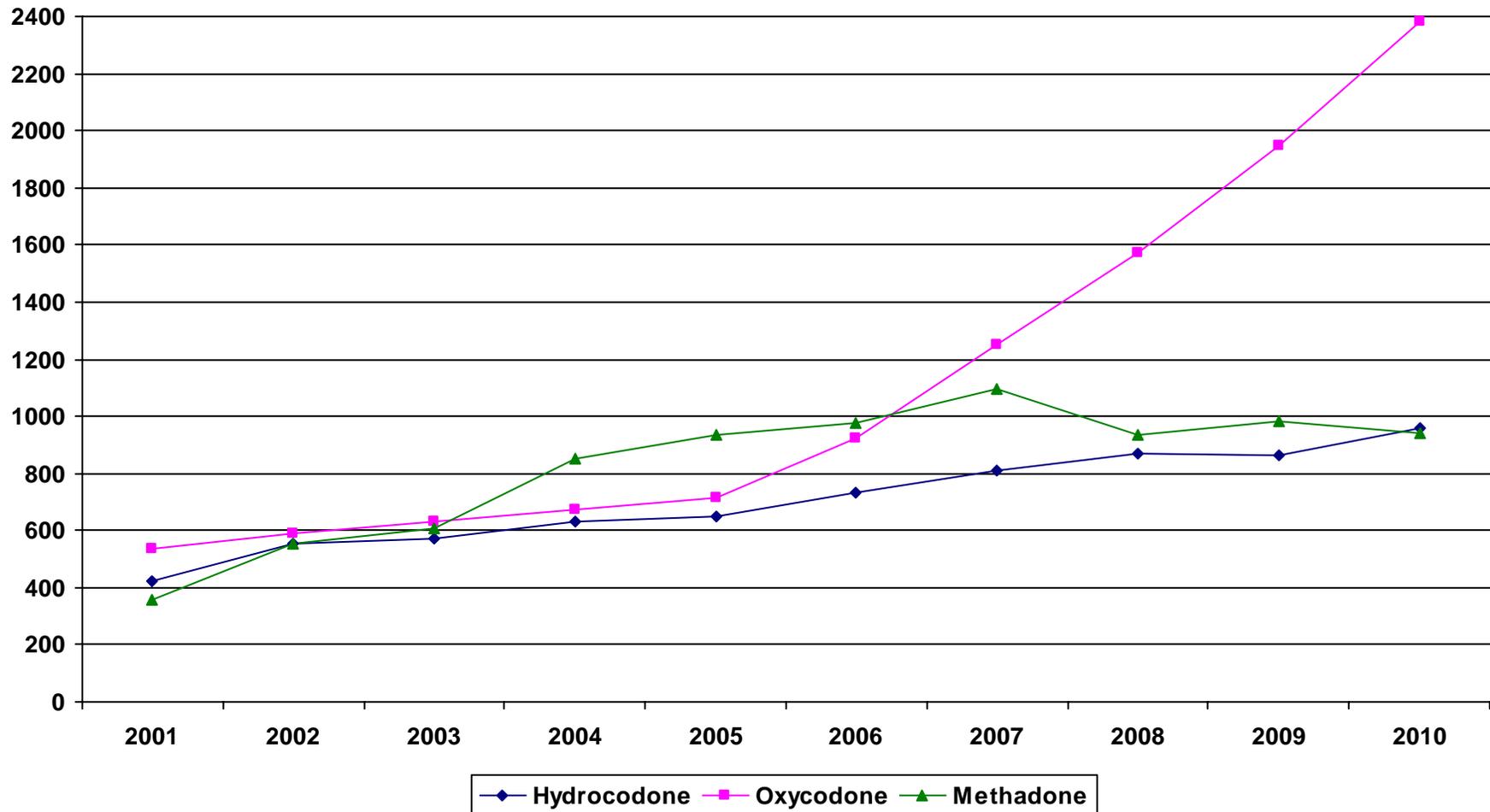
Deaths Caused by Methadone					
Age of Decedent					
Total	< 18	18-25	26-34	35-50	>50
29	2	4	5	15	3
4	0	0	1	1	2
8	0	1	1	2	4
52	1	4	13	25	9
74	1	7	20	30	16
127	2	21	31	47	26
19	0	1	3	11	4
17	0	3	4	9	1
42	0	4	14	17	7
6	0	0	1	2	3
10	0	1	1	4	4
47	2	9	11	18	7
72	3	11	15	27	16
8	0	1	1	5	1
40	0	3	10	18	9
6	1	1	0	2	2
31	0	3	7	13	8
29	0	3	11	9	6
10	0	1	0	6	3
8	0	1	4	2	1
24	1	3	6	7	7
5	0	1	1	1	2
17	0	5	8	1	3
9	0	2	2	4	1
694	13	90	170	276	145

Methadone Present					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
12	0	1	0	8	3
4	0	0	0	2	2
8	0	1	2	1	4
23	1	2	2	11	7
14	0	2	3	6	3
41	0	7	11	16	7
6	0	0	1	3	2
5	0	1	1	0	3
15	0	1	2	7	5
19	0	1	5	7	6
5	0	0	0	1	4
12	1	0	1	7	3
19	0	1	2	8	8
4	0	0	2	1	1
7	0	0	1	3	3
0	0	0	0	0	0
14	0	1	1	9	3
6	0	1	0	4	1
9	0	0	3	4	2
3	0	0	0	2	1
15	0	3	2	8	2
3	0	0	1	2	0
2	1	0	0	1	0
0	0	0	0	0	0
246	3	22	40	111	70

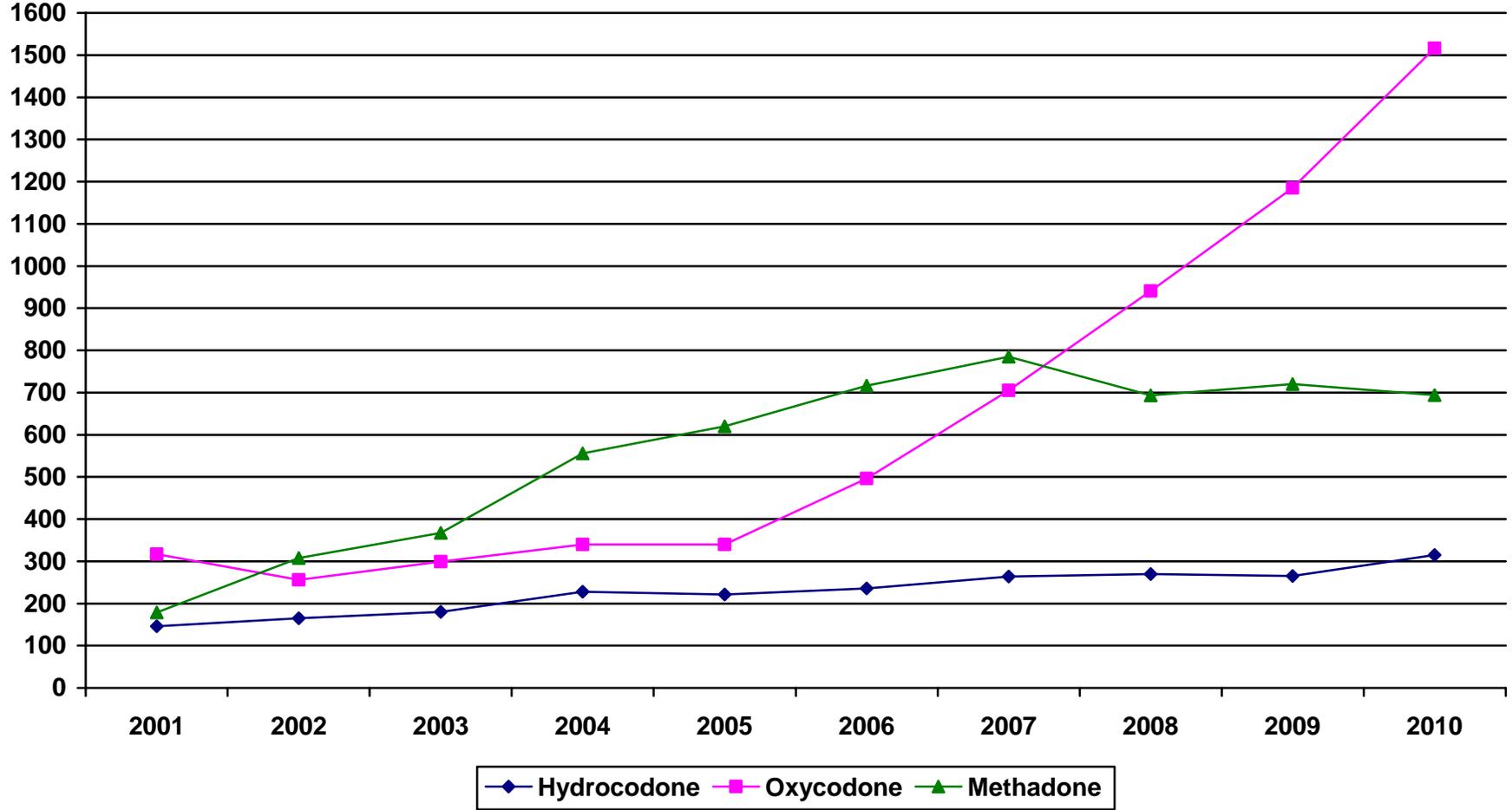
Methadone Deaths by County 2010



Historical Occurrences of Hydrocodone, Oxycodone, & Methadone (present and cause)



Historical Deaths Caused by Hydrocodone, Oxycodone, & Methadone



Morphine Deaths January – December 2010

Medical Examiner District & 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 Bch
16	Florida Keys
17	Ft. Lauderdale
18	Melbourne
19	Ft. Pierce
20	Naples
21	Ft. Myers
22	Port Charlotte
23	St. Augustine
24	Sanford
Statewide Totals	

Total Deaths with Morphine		
Total	Cause	Present
17	3	14
11	2	9
4	4	0
31	18	13
31	20	11
78	41	37
24	5	19
17	8	9
68	20	48
27	5	22
51	13	38
22	12	10
58	20	38
6	2	4
34	24	10
7	3	4
54	21	33
22	9	13
19	7	12
6	5	1
23	9	14
16	1	15
8	5	3
7	5	2
641	262	379

Deaths with Morphine Only		
Total	Cause	Present
3	0	3
3	1	2
0	0	0
2	0	2
2	0	2
7	2	5
4	0	4
6	1	5
7	0	7
6	1	5
14	0	14
4	2	2
20	4	16
0	0	0
6	2	4
1	0	1
9	1	8
0	0	0
2	1	1
1	1	0
3	0	3
5	0	5
1	0	1
0	0	0
106	16	90

Deaths with Morphine in Combination with Other Drugs		
Total	Cause	Present
14	3	11
8	1	7
4	4	0
29	18	11
29	20	9
71	39	32
20	5	15
11	7	4
61	20	41
21	4	17
37	13	24
18	10	8
38	16	22
6	2	4
28	22	6
6	3	3
45	20	25
22	9	13
17	6	11
5	4	1
20	9	11
11	1	10
7	5	2
7	5	2
535	246	289

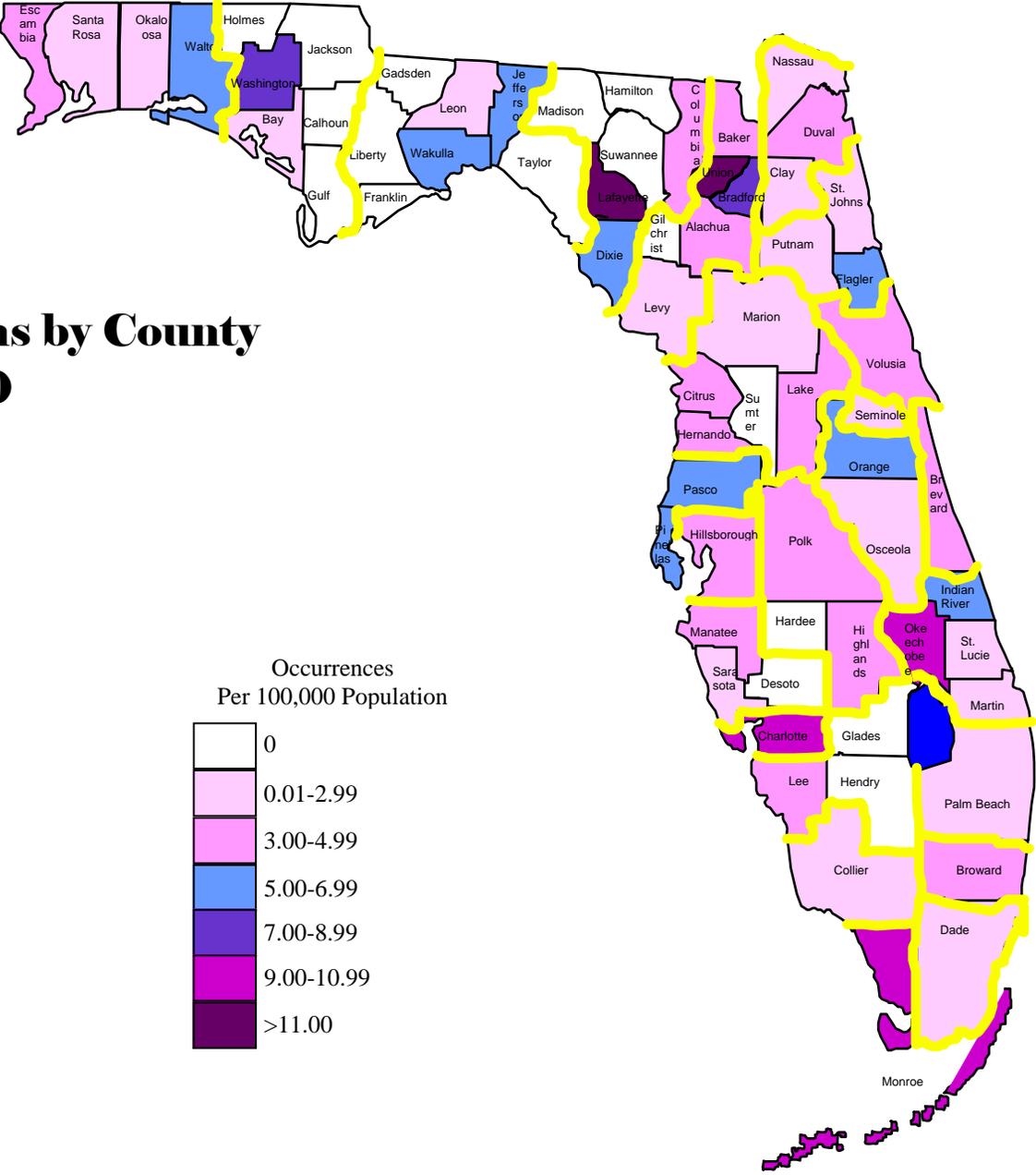
Morphine Deaths by Age January – December 2010

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	17
2	Tallahassee	11
3	Live Oak	4
4	Jacksonville	31
5	Leesburg	31
6	St. Petersburg	78
7	Daytona Beach	24
8	Gainesville	17
9	Orlando	68
10	Lakeland	27
11	Miami	51
12	Sarasota	22
13	Tampa	58
14	Panama City	6
15	West Palm Bch	34
16	Florida Keys	7
17	Ft. Lauderdale	54
18	Melbourne	22
19	Ft. Pierce	19
20	Naples	6
21	Ft. Myers	23
22	Port Charlotte	16
23	St. Augustine	8
24	Sanford	7
Statewide Totals		641

Deaths Caused by Morphine					
Age of Decedent					
Total	< 18	18-25	26-34	35-50	>50
3	0	0	0	2	1
2	0	0	0	1	1
4	0	0	0	3	1
18	0	1	2	9	6
20	1	1	2	8	8
41	0	0	4	20	17
5	0	0	0	2	3
8	0	1	1	2	4
20	0	1	3	4	12
5	0	1	1	2	1
13	0	0	3	5	5
12	0	0	0	4	8
20	0	1	1	9	9
2	0	1	0	0	1
24	0	3	3	10	8
3	0	0	0	1	2
21	0	0	5	7	9
9	0	2	3	2	2
7	1	0	2	2	2
5	0	1	1	1	2
9	0	0	0	4	5
1	0	0	0	0	1
5	0	0	2	2	1
5	0	1	0	1	3
262	2	14	33	101	112

Morphine Present					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
14	1	1	0	3	9
9	0	0	0	2	7
0	0	0	0	0	0
13	0	0	1	3	9
11	0	0	1	5	5
37	1	1	2	14	19
19	0	0	1	5	13
9	0	0	0	3	6
48	1	0	5	12	30
22	0	1	4	6	11
38	0	2	2	7	27
10	0	1	0	5	4
38	0	0	2	5	31
4	0	0	0	1	3
10	0	2	1	0	7
4	0	0	0	1	3
33	0	3	3	8	19
13	0	0	1	3	9
12	0	0	2	2	8
1	0	0	1	0	0
14	1	1	3	5	4
15	0	1	1	4	9
3	0	0	0	2	1
2	0	0	1	0	1
379	4	13	31	96	235

Morphine Deaths by County 2010



Propoxyphene Deaths January – December 2010

Medical Examiner District & Area of Florida		Total Deaths with Propoxyphene			Deaths with Propoxyphene Only			Deaths with Propoxyphene in Combination with Other Drugs		
District	Area of Florida	Total	Cause	Present	Total	Cause	Present	Total	Cause	Present
1	Pensacola	3	2	1	0	0	0	3	2	1
2	Tallahassee	7	0	7	3	0	3	4	0	4
3	Live Oak	2	0	2	1	0	1	1	0	1
4	Jacksonville	18	5	13	2	0	2	16	5	11
5	Leesburg	11	3	8	2	1	1	9	2	7
6	St. Petersburg	15	1	14	3	0	3	12	1	11
7	Daytona Beach	13	3	10	1	0	1	12	3	9
8	Gainesville	3	0	3	1	0	1	2	0	2
9	Orlando	28	6	22	8	0	8	20	6	14
10	Lakeland	15	0	15	1	0	1	14	0	14
11	Miami	16	4	12	3	0	3	13	4	9
12	Sarasota	8	2	6	1	0	1	7	2	5
13	Tampa	14	9	5	5	3	2	9	6	3
14	Panama City	6	0	6	0	0	0	6	0	6
15	West Palm Bch	10	3	7	1	0	1	9	3	6
16	Florida Keys	1	0	1	0	0	0	1	0	1
17	Ft. Lauderdale	15	6	9	5	0	5	10	6	4
18	Melbourne	10	4	6	3	0	3	7	4	3
19	Ft. Pierce	10	2	8	2	0	2	8	2	6
20	Naples	5	2	3	1	0	1	4	2	2
21	Ft. Myers	6	0	6	2	0	2	4	0	4
22	Port Charlotte	1	0	1	0	0	0	1	0	1
23	St. Augustine	2	2	0	0	0	0	2	2	0
24	Sanford	5	3	2	0	0	0	5	3	2
Statewide Totals		224	57	167	45	4	41	179	53	126

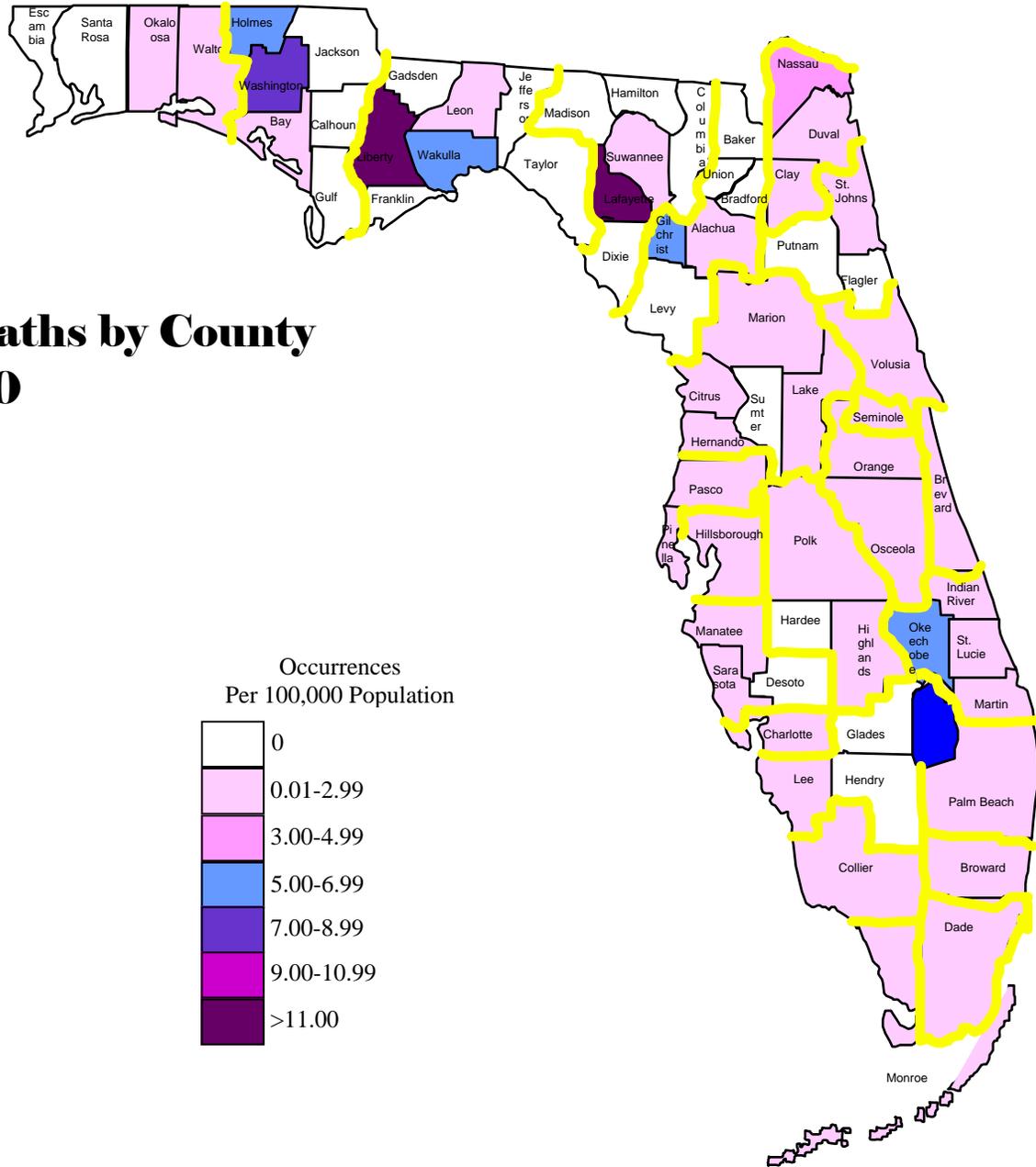
Propoxyphene Deaths by Age January – December 2010

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	3
2	Tallahassee	7
3	Live Oak	2
4	Jacksonville	18
5	Leesburg	11
6	St. Petersburg	15
7	Daytona Beach	13
8	Gainesville	3
9	Orlando	28
10	Lakeland	15
11	Miami	16
12	Sarasota	8
13	Tampa	14
14	Panama City	6
15	West Palm Bch	10
16	Florida Keys	1
17	Ft. Lauderdale	15
18	Melbourne	10
19	Ft. Pierce	10
20	Naples	5
21	Ft. Myers	6
22	Port Charlotte	1
23	St. Augustine	2
24	Sanford	5
Statewide Totals		224

Deaths Caused by Propoxyphene					
Age of Decedent					
Total	< 18	18-25	26-34	35-50	>50
2	0	0	1	0	1
0	0	0	0	0	0
0	0	0	0	0	0
5	0	1	0	3	1
3	0	0	1	0	2
1	0	0	0	0	1
3	0	0	0	3	0
0	0	0	0	0	0
6	0	0	1	2	3
0	0	0	0	0	0
4	0	0	0	3	1
2	0	0	0	1	1
9	0	1	3	1	4
0	0	0	0	0	0
3	0	0	0	2	1
0	0	0	0	0	0
6	0	0	1	3	2
4	0	0	1	1	2
2	0	0	0	1	1
2	0	0	0	2	0
0	0	0	0	0	0
0	0	0	0	0	0
2	0	0	0	1	1
3	0	0	1	0	2
57	0	2	9	23	23

Propoxyphene Present					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
1	0	0	0	0	1
7	0	0	0	2	5
2	0	0	0	0	2
13	0	0	2	2	9
8	0	1	0	2	5
14	0	3	0	6	5
10	0	0	2	4	4
3	0	0	0	0	3
22	0	1	4	4	13
15	0	0	3	4	8
12	0	0	0	2	10
6	0	0	1	2	3
5	0	0	0	1	4
6	0	0	0	2	4
7	0	0	1	3	3
1	0	0	0	0	1
9	0	0	1	3	5
6	0	0	1	0	5
8	0	0	0	4	4
3	1	0	0	0	2
6	0	0	0	4	2
1	0	0	0	0	1
0	0	0	0	0	0
2	0	0	0	2	0
167	1	5	15	47	99

Propoxyphene Deaths by County 2010



Prescription Drugs in Medical Examiner Cases 2009 vs. 2010

Medical Examiner District & 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 Bch
16	Florida Keys
17	Ft. Lauderdale
18	Melbourne
19	Ft. Pierce
20	Naples
21	Ft. Myers
22	Port Charlotte
23	St. Augustine
24	Sanford
Statewide Totals	
<i>These tables are based on prescription drugs tracked by the Medical Examiners Commission and reported by Florida Medical Examiners. The list of drugs tracked by the Medical Examiners Commission expanded significantly in 2010. Do not add across columns.</i>	

Total Prescription Drug Occurrences in ME Cases (present & cause)		
2009	2010	Percentage Change
129	148	14.7
56	66	17.9
59	63	6.8
357	350	-2.0
299	346	15.7
639	708	10.8
180	237	31.7
136	126	-7.4
430	476	10.7
172	187	8.7
239	359	50.2
227	246	8.4
339	400	18.0
61	80	31.1
429	365	-14.9
48	39	-18.8
490	470	-4.1
219	255	16.4
247	208	-15.8
84	72	-14.3
193	198	2.6
67	59	-11.9
70	107	52.9
105	82	-21.9
5,275	5,647	7.1%
<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. These drugs may have also been mixed with illicit drugs and/or alcohol.</i>		

Accidental Deaths with Prescription Drug Occurrences (present & cause)		
2009	2010	Percentage Change
72	79	9.7
23	30	30.4
27	45	66.7
190	192	1.1
185	219	18.4
424	457	7.8
114	149	30.7
55	58	5.5
224	255	13.8
95	110	15.8
103	149	44.7
127	142	11.8
244	255	4.5
34	42	23.5
276	226	-18.1
21	24	14.3
296	271	-8.4
142	134	-5.6
137	112	-18.2
45	45	0.0
118	92	-22.0
33	23	-30.3
38	65	71.1
70	60	-14.3
3,093	3,234	4.6%
<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. These drugs may have also been mixed with illicit drugs and/or alcohol.</i>		

Accidental Prescription Drug Caused Deaths (caused by)		
2009	2010	Percentage Change
44	51	15.9
3	13	333.3
15	29	93.3
125	139	11.2
128	168	31.3
347	390	12.4
72	99	37.5
18	32	77.8
103	138	34.0
32	27	-15.6
60	71	18.3
112	113	0.9
219	218	-0.5
18	23	27.8
202	179	-11.4
13	19	46.2
203	198	-2.5
105	106	1.0
100	77	-23.0
40	35	-12.5
75	51	-32.0
6	16	166.7
27	48	77.8
49	44	-10.2
2,116	2,284	7.9%
<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 have also been mixed with illicit drugs and/or alcohol.</i>		

Cocaine Deaths January – December 2010

Medical Examiner District & 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 Bch
16	Florida Keys
17	Ft. Lauderdale
18	Melbourne
19	Ft. Pierce
20	Naples
21	Ft. Myers
22	Port Charlotte
23	St. Augustine
24	Sanford
Statewide Totals	

Total Deaths with Cocaine		
Total	Cause	Present
36	9	27
25	3	22
9	3	6
115	38	77
52	22	30
134	69	65
44	5	39
39	28	11
128	46	82
42	18	24
198	57	141
57	30	27
83	31	52
9	4	5
106	56	50
11	3	8
127	66	61
49	30	19
20	6	14
13	6	7
53	14	39
5	2	3
23	9	14
24	6	18
1,402	561	841

Deaths with Cocaine Only		
Total	Cause	Present
4	1	3
4	0	4
1	0	1
18	5	13
7	2	5
14	9	5
5	1	4
8	3	5
22	10	12
13	10	3
76	14	62
11	6	5
32	11	21
4	1	3
19	7	12
1	0	1
25	12	13
13	7	6
3	0	3
3	1	2
5	1	4
0	0	0
6	3	3
4	1	3
298	105	193

Deaths with Cocaine in Combination with Other Drugs		
Total	Cause	Present
32	8	24
21	3	18
8	3	5
97	33	64
45	20	25
120	60	60
39	4	35
31	25	6
106	36	70
29	8	21
122	43	79
46	24	22
51	20	31
5	3	2
87	49	38
10	3	7
102	54	48
36	23	13
17	6	11
10	5	5
48	13	35
5	2	3
17	6	11
20	5	15
1,104	456	648

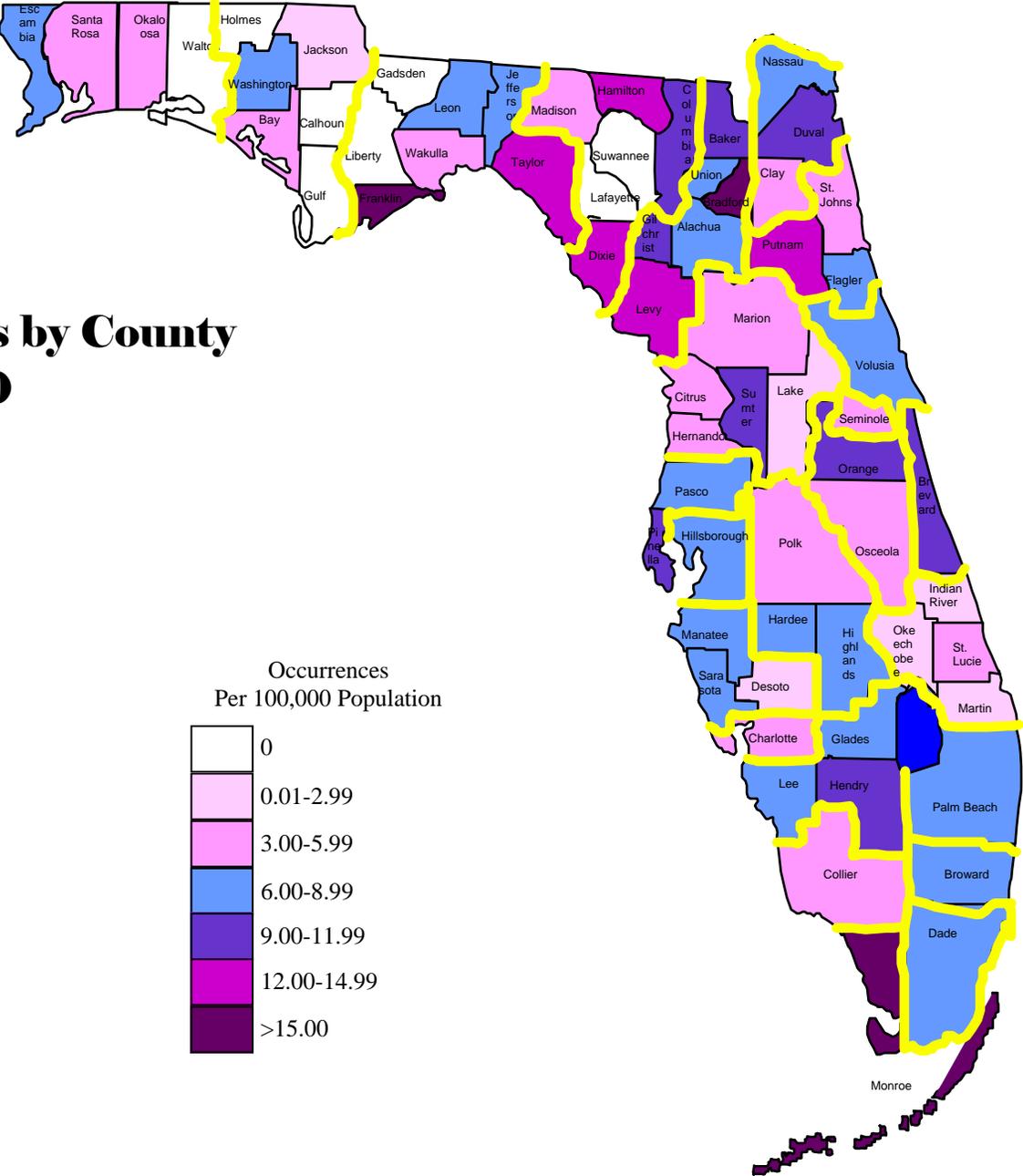
Cocaine Deaths by Age January – December 2010

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	36
2	Tallahassee	25
3	Live Oak	9
4	Jacksonville	115
5	Leesburg	52
6	St. Petersburg	134
7	Daytona Beach	44
8	Gainesville	39
9	Orlando	128
10	Lakeland	42
11	Miami	198
12	Sarasota	57
13	Tampa	83
14	Panama City	9
15	West Palm Bch	106
16	Florida Keys	11
17	Ft. Lauderdale	127
18	Melbourne	49
19	Ft. Pierce	20
20	Naples	13
21	Ft. Myers	53
22	Port Charlotte	5
23	St. Augustine	23
24	Sanford	24
Statewide Totals		1,402

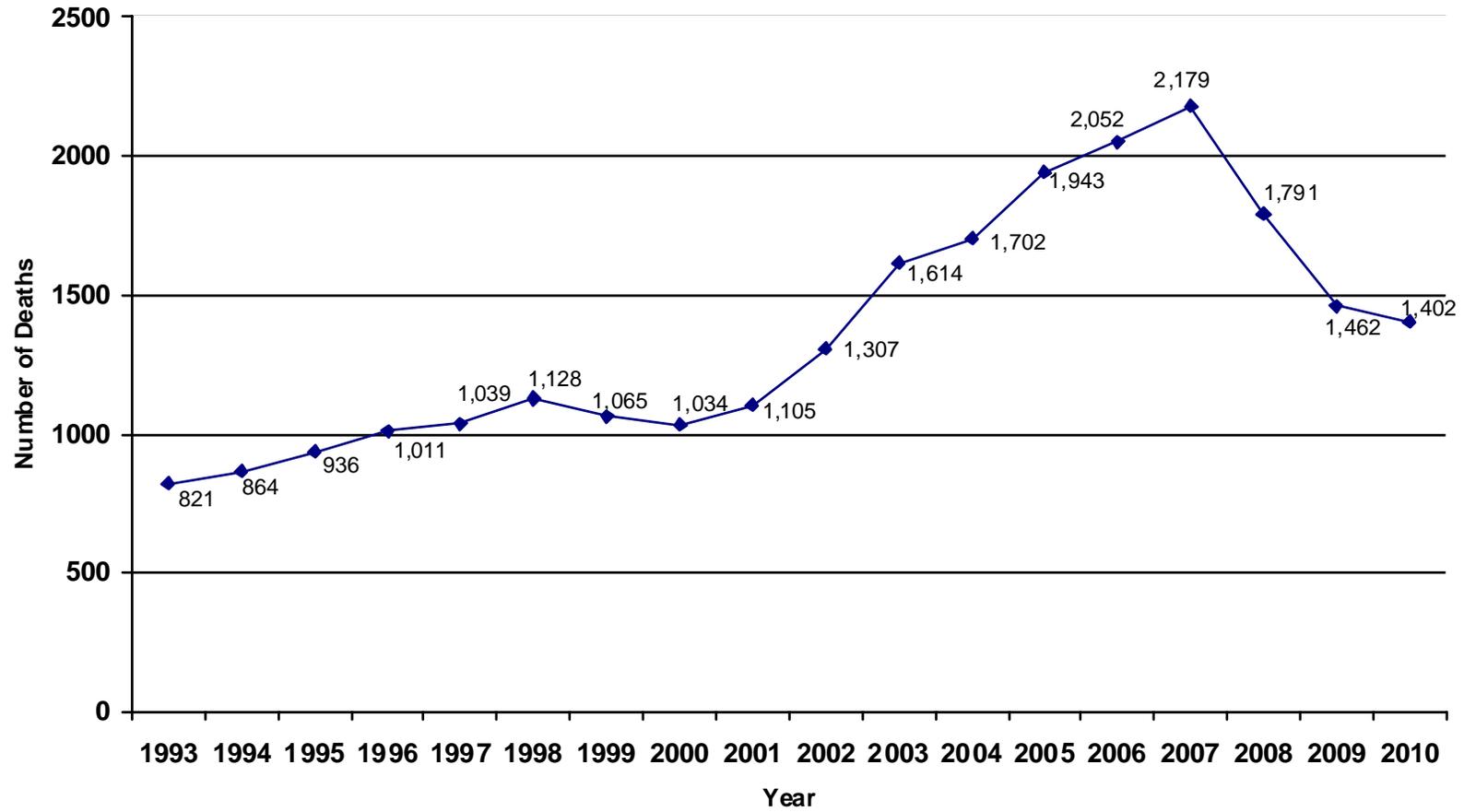
Deaths Caused by Cocaine						
Age of Decedent						
Total	< 18	18-25	26-34	35-50	>50	
9	0	2	1	2	4	
3	0	1	1	0	1	
3	0	1	1	0	1	
38	0	1	7	17	13	
22	0	1	5	12	4	
69	2	11	11	22	23	
5	0	0	1	4	0	
28	0	3	6	14	5	
46	1	2	12	20	11	
18	0	2	3	4	9	
57	1	5	6	23	22	
30	1	3	7	12	7	
31	0	3	5	12	11	
4	0	2	0	2	0	
56	0	3	13	27	13	
3	0	0	0	3	0	
66	0	4	9	34	19	
30	0	0	9	11	10	
6	0	0	1	4	1	
6	0	0	2	3	1	
14	0	3	3	6	2	
2	0	0	0	2	0	
9	0	0	3	5	1	
6	0	0	0	3	3	
561	5	47	106	242	161	

Cocaine Present						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
27	0	6	8	9	4	
22	0	4	3	11	4	
6	0	1	1	1	3	
77	0	11	20	28	18	
30	0	5	11	11	3	
65	0	9	14	26	16	
39	0	2	8	18	11	
11	0	0	2	3	6	
82	1	10	13	37	21	
24	0	3	8	9	4	
141	2	16	28	56	39	
27	0	7	6	14	0	
52	0	4	6	28	14	
5	0	0	1	3	1	
50	1	5	17	20	7	
8	0	3	2	2	1	
61	0	7	13	30	11	
19	0	1	3	10	5	
14	0	2	4	5	3	
7	0	1	3	1	2	
39	0	7	11	16	5	
3	0	0	1	1	1	
14	0	0	3	7	4	
18	0	3	2	9	4	
841	4	107	188	355	187	

Cocaine Deaths by County 2010



Historical Deaths Caused by Cocaine (present and cause) 1993 – 2010



15 Year Study of Cocaine-Related Deaths Reported by Medical Examiners (present and cause)

District	Area of Florida	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
1	Pensacola	24	15	18	22	23	23	37	46	59	69	78	76	56	33	36
2	Tallahassee	24	11	29	28	26	28	33	43	38	58	51	40	27	30	25
3	Live Oak	6	8	8	7	4	8	7	13	22	19	16	10	13	16	9
4	Jacksonville	71	81	86	100	101	108	148	184	205	195	246	248	165	125	115
5	Leesburg	22	27	23	19	35	38	47	56	69	60	21	45	67	56	52
6	St. Petersburg	32	41	52	58	75	81	89	116	150	138	185	173	154	139	134
7	Daytona Beach	12	31	26	8	24	37	35	42	43	77	64	84	51	58	44
8	Gainesville	18	18	19	15	17	12	15	45	43	48	47	42	32	39	39
9	Orlando	87	93	112	103	109	94	116	124	136	165	178	190	179	145	128
10	Lakeland	24	24	34	27	21	33	30	43	46	75	53	41	40	35	42
11	Miami	330	266	273	226	144	149	151	189	160	162	182	281	201	155	198
12	Sarasota	23	30	29	26	38	39	46	83	69	83	106	105	75	59	57
13	Tampa	58	83	72	80	52	56	79	81	108	115	130	158	146	54	83
14	Panama City	4	6	20	19	19	20	24	31	22	24	32	31	17	20	9
15	West Palm Bch	72	66	69	73	103	125	113	147	151	197	191	168	143	126	106
16	Florida Keys	6	11	12	20	12	14	16	11	10	18	16	27	15	14	11
17	Ft. Lauderdale	83	121	135	139	80	94	121	138	120	136	150	157	146	135	127
18	Melbourne	26	15	30	23	42	35	48	66	62	84	80	62	68	59	49
19	Ft. Pierce	22	11	22	21	37	39	33	33	43	58	45	46	47	35	20
20	Naples	9	11	8	14	15	17	23	15	21	24	34	29	15	21	13
21	Ft. Myers	32	37	20	27	35	27	55	68	84	78	96	79	67	48	53
22	Port Charlotte	0	3	4	3	6	6	5	3	10	14	14	19	14	9	5
23	St. Augustine	11	13	9	4	2	7	23	24	20	24	17	33	27	19	23
24	Sanford	15	17	18	3	14	15	13	13	11	22	20	35	26	32	24
Statewide Total		1,011	1,039	1,128	1,065	1,034	1,105	1,307	1,614	1,702	1,943	2,052	2,179	1,791	1,462	1,402

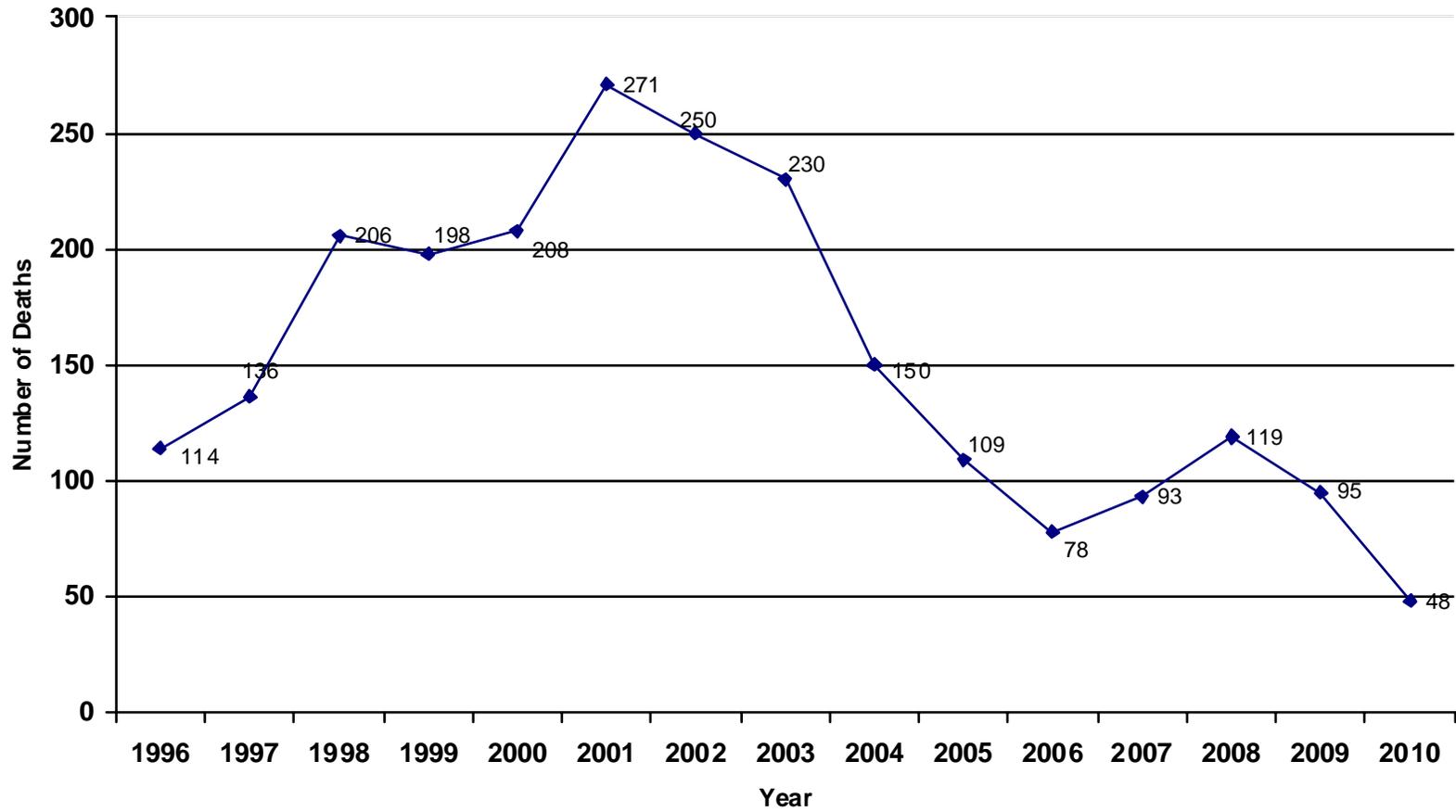
Heroin Deaths by Age January – December 2010

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	0
2	Tallahassee	0
3	Live Oak	0
4	Jacksonville	1
5	Leesburg	0
6	St. Petersburg	3
7	Daytona Beach	1
8	Gainesville	0
9	Orlando	10
10	Lakeland	1
11	Miami	26
12	Sarasota	2
13	Tampa	1
14	Panama City	1
15	West Palm Bch	4
16	Florida Keys	0
17	Ft. Lauderdale	5
18	Melbourne	0
19	Ft. Pierce	1
20	Naples	0
21	Ft. Myers	0
22	Port Charlotte	0
23	St. Augustine	1
24	Sanford	1
Statewide Totals		58

Deaths Caused by Heroin						
Age of Decedent						
Total	< 18	18-25	26-34	35-50	>50	
0	0	0	0	0	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	
3	0	0	0	2	1	
1	0	0	0	1	0	
0	0	0	0	0	0	
9	0	2	3	4	0	
0	0	0	0	0	0	
19	1	0	7	6	5	
2	0	1	0	0	1	
1	0	0	1	0	0	
1	0	0	1	0	0	
4	0	0	2	2	0	
0	0	0	0	0	0	
4	0	1	0	2	1	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
1	0	0	0	1	0	
1	0	0	0	0	1	
48	1	4	15	19	9	

Heroin Present						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
1	0	0	0	0	1	
1	0	0	1	0	0	
7	0	0	2	2	3	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
10	0	0	3	2	5	

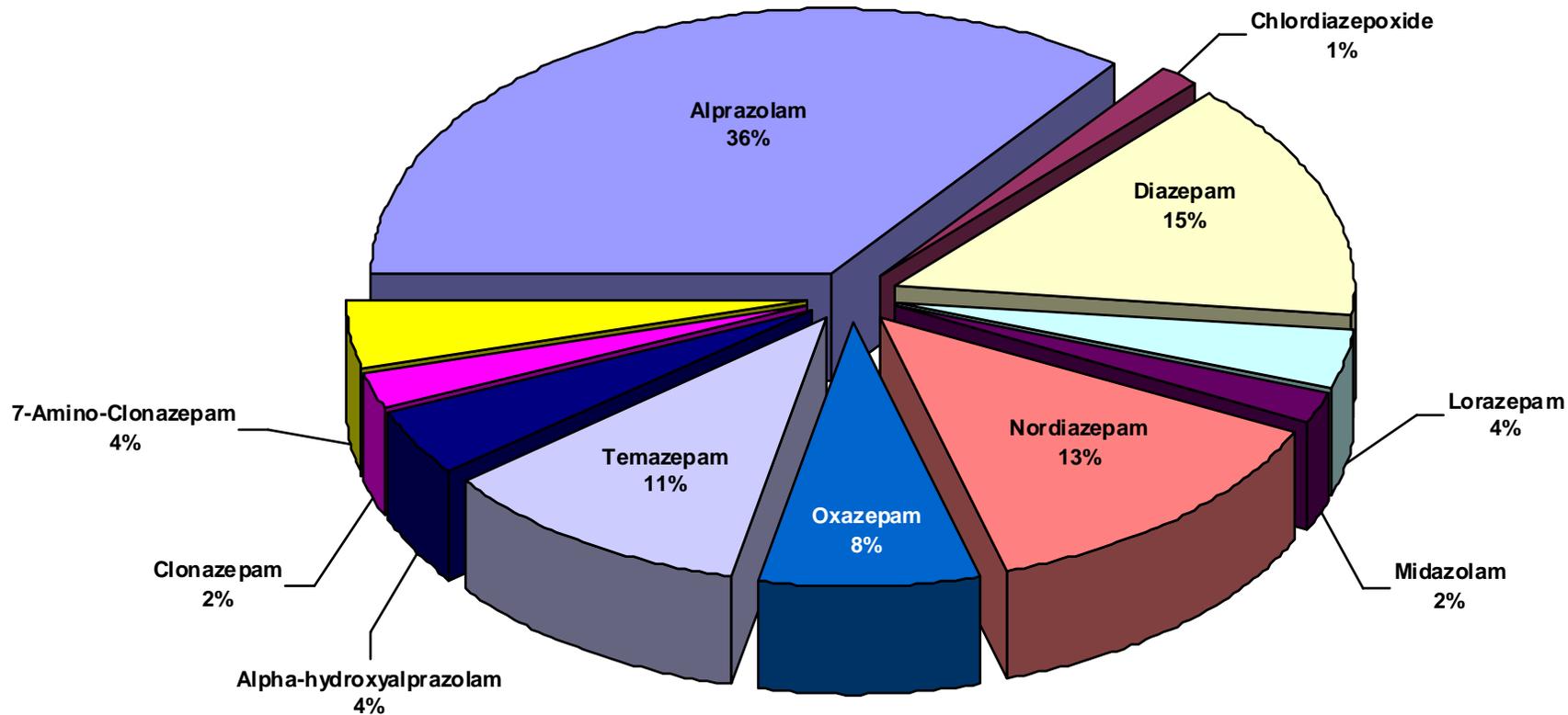
Historical Deaths Caused by Heroin 1996 – 2010



Historical View of Heroin Deaths (Caused by Heroin)

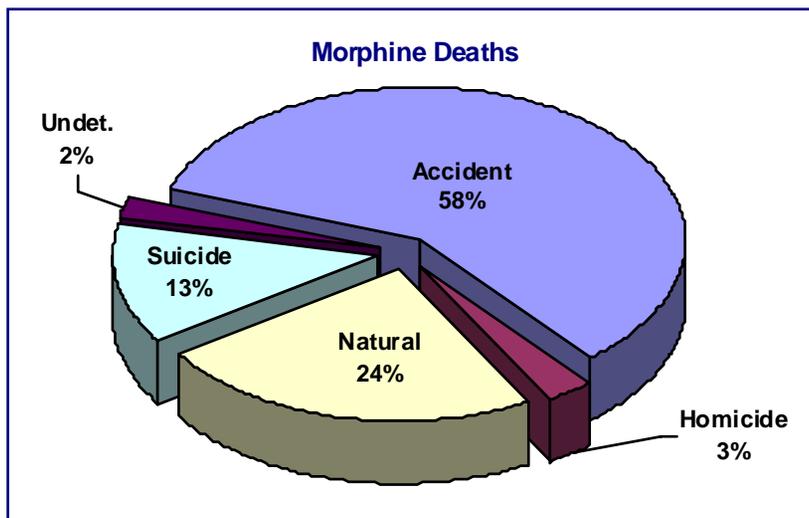
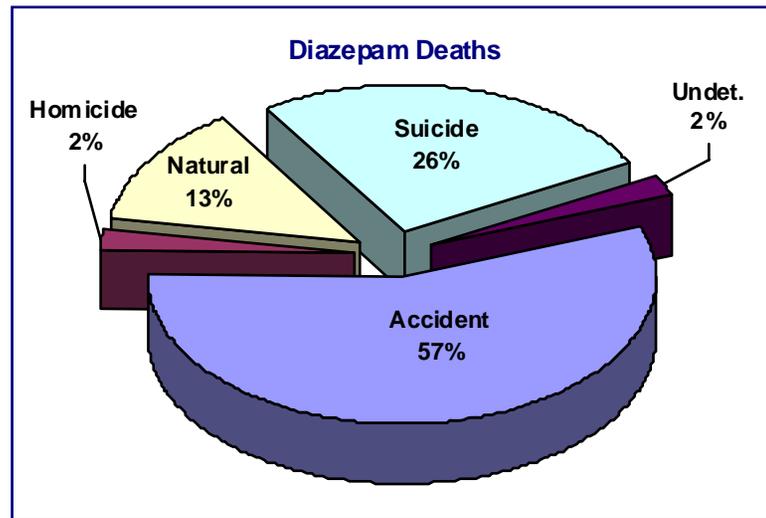
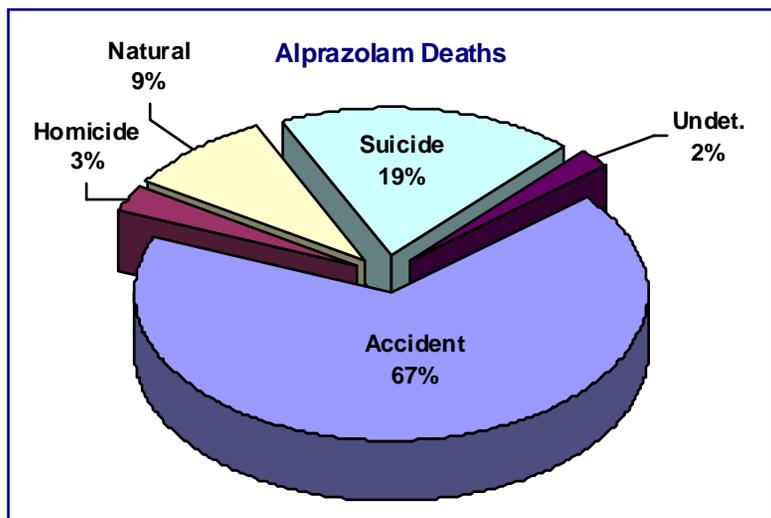
District	Area of Florida	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
1	Pensacola	1	0	0	0	0	1	0	0	0	0	1	0	1	2	0
2	Tallahassee	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
3	Live Oak	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Jacksonville	2	5	0	5	4	10	8	5	4	3	4	6	3	2	1
5	Leesburg	0	0	0	2	3	1	4	2	1	0	0	0	5	1	0
6	St. Petersburg	7	6	10	8	17	24	31	22	14	12	6	11	3	8	3
7	Daytona Beach	1	4	4	0	6	1	2	2	2	0	1	1	0	2	1
8	Gainesville	5	0	2	0	0	0	0	0	0	0	0	0	0	0	0
9	Orlando	30	16	36	42	30	34	22	33	20	15	7	16	16	22	9
10	Lakeland	0	0	1	3	1	0	2	0	1	2	0	0	0	1	0
11	Miami	31	52	61	48	61	32	36	28	18	19	12	19	33	26	19
12	Sarasota	0	0	0	1	7	3	3	18	14	8	14	3	18	3	2
13	Tampa	3	6	13	19	21	34	33	18	14	6	7	10	5	1	1
14	Panama City	0	0	0	0	2	0	0	0	0	0	0	1	0	0	1
15	West Palm Bch	11	11	19	12	15	57	36	27	26	17	8	10	6	6	4
16	Florida Keys	0	0	2	5	0	3	4	0	1	0	1	0	1	1	0
17	Ft. Lauderdale	14	19	37	35	17	51	38	43	22	17	11	3	13	7	4
18	Melbourne	2	4	1	6	5	6	7	8	3	2	1	1	1	2	0
19	Ft. Pierce	0	2	3	1	1	3	2	3	3	1	3	3	3	1	1
20	Naples	0	3	4	3	3	3	9	3	0	1	1	1	1	0	0
21	Ft. Myers	3	6	3	7	10	5	7	12	4	0	1	4	7	8	0
22	Port Charlotte	1	0	0	0	1	0	4	0	1	3	0	0	0	1	0
23	St. Augustine	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
24	Sanford	3	2	9	1	4	3	1	6	2	3	0	4	3	1	1
Statewide Totals		114	136	206	198	208	271	250	230	150	109	78	93	119	95	48

Frequency of Occurrence of Benzodiazepines January – December 2010

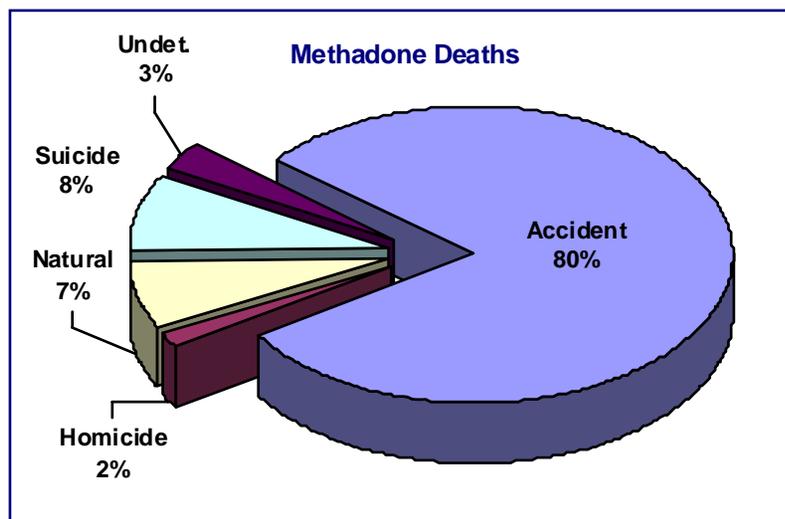
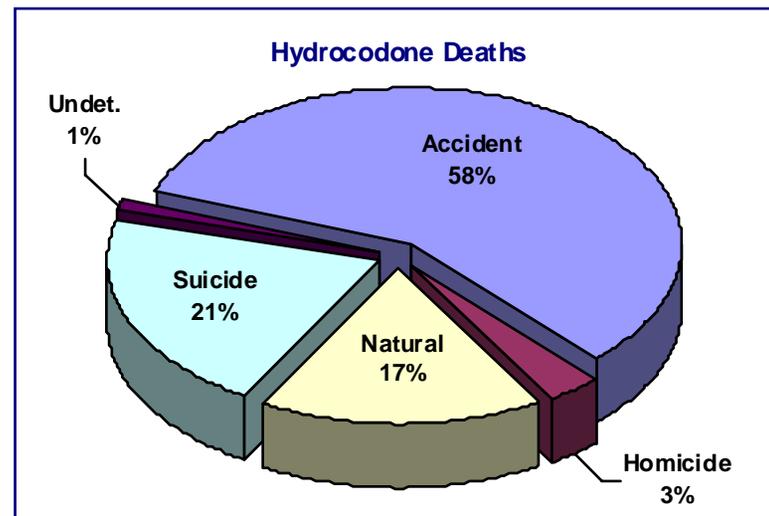
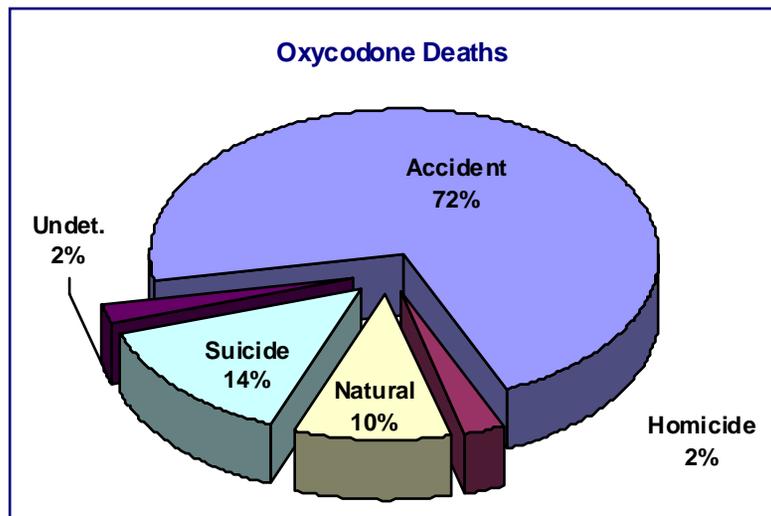


Note: Desalkylflurazepam, Estazolam, Flunitrazepam, Flurazepam, Triazolam, and Alpha-hydroxytriazolam constituted less than 1% of the drug frequencies.

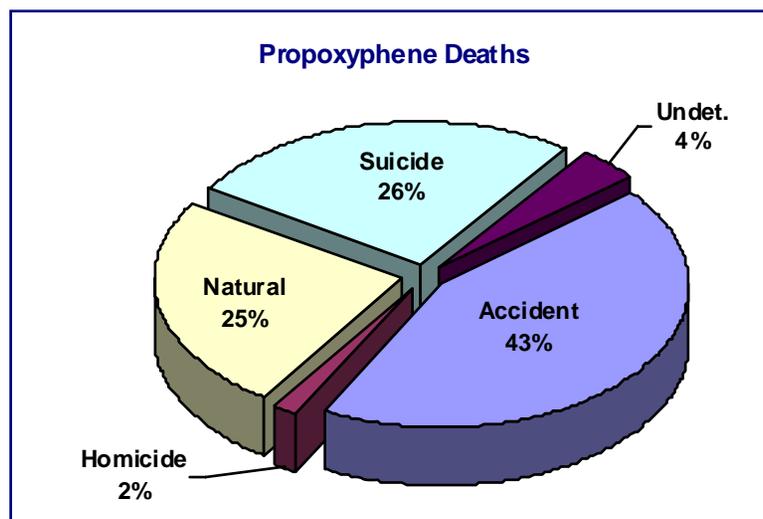
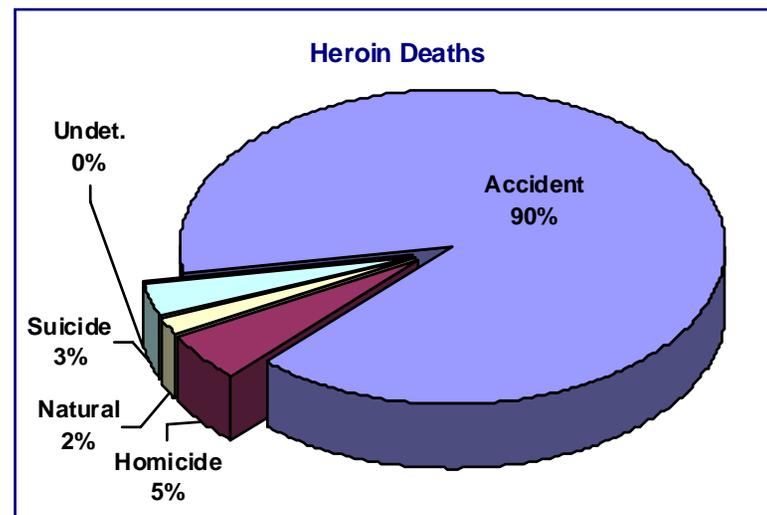
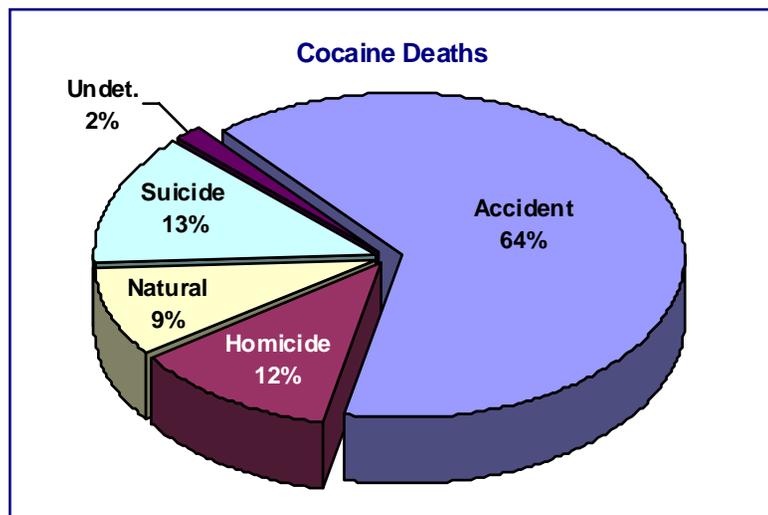
Manners of Death for Cases Reported (Accidental, Homicide, Natural, Suicide or Undetermined)



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Glossary

Benzodiazepine – 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.

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.

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.”

Difluoroethane – It is commonly found in electronic cleaning products, and many consumer aerosol products.

Ethyl Alcohol – Alcohol or ethanol.

Fentanyl – Synthetic narcotic analgesic (pain killer) used in the Duragesic transdermal patch. Also available in a solid “lollypop” sold under the brand name Actiq.

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.”

Heroin – An illicit narcotic derivative. It is a semi-synthetic product of opium. Heroin also has multiple street names including “H”, “hombre” and “smack.”

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 but it 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.

Methylated Amphetamines – Includes such drugs as methamphetamine (stimulant) and MDMA (Ecstasy – which is a hallucinogen). Ecstasy has multiple street names including “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”. Methamphetamine is also known as “meth”, “crank”, “speed” and “tina”.

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.

Nitrous Oxide (N₂O) – Also known as “laughing gas,” this 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). 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”.

Propoxyphene – A synthetic narcotic analgesic (pain killer) used for mild to moderate pain. A chemical cousin to methadone, it is marketed under the trade name Darvon and Darvocet when mixed with acetaminophen.

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”.

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.

Zolpidem – A prescription medication used for the short-term treatment of insomnia. Commonly known as Ambien.