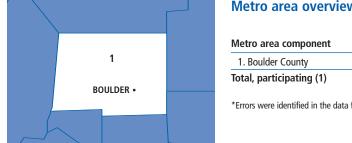
ABBREVIATED PROFILES FOR AREAS WITH FEW CASES

Boulder, CO



Metro area population, 2001297,686Percent of population covered by DAWN100%

Metro area overview: Deaths and population by county, 2001*

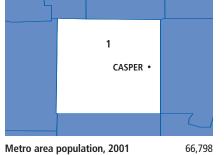
ERRATA

Metro area component	TOTAL	Drug-induced	Drug-related	Total deaths certified	Total population (2001)
1. Boulder County	—	—	—	—	297,686
Total, participating (1)	—	_	—	—	297,686

*Errors were identified in the data for 2001, so these have been removed.

96

Casper, WY



Percent of population covered by DAWN 100%

Metro area overview: Deaths and population by county, 2001

	Deaths involving drug abuse				
Metro area component	TOTAL	Drug-induced	Drug-related	Total deaths certified	Total population (2001)
1. Natrona County	9	2	7	115	66,798
Total, participating (1)	9	2	7	115	66,798

Fargo, ND



Metro area population, 2001175,630Percent of population covered by DAWN100%

Metro area overview: Deaths and population by county, 2001

	Deaths involving drug abuse				
Metro area component	tro area component TOTAL Drug-induced Drug-related		Total deaths certified	Total population (2001)	
North Dakota jurisdiction					
1. Cass County	9	4	5	135	124,021
Minnesota jurisdiction					
2. Clay County	_	_	_	236	51,609
Total, participating (2)	9	4	5	371	175,630

Indianapolis, IN



Metro area population, 20011,632,452Percent of population covered by DAWN60%

Metro area overview: Deaths and population by county, 2001

	Deaths involving drug abuse				
Metro area component	TOTAL	Drug-induced	Drug-related	Total deaths certified	Total population (2001)
1. Boone County					47,408
2. Hamilton County					197,477
3. Hancock County					57,160
4. Hendricks County					110,784
5. Johnson County	2	2	—	60	119,240
6. Madison County					132,352
7. Marion County	2	2	—	1,152	856,938
8. Morgan County					67,513
9. Shelby County					43,580
Total, participating (2)	4	4	_	1,212	976,178

Areas that are shaded did not participate in DAWN in 2001.

Jackson, MS



Metro area overview: Deaths and population by county, 2001

Deaths involving drug abuse					
Metro area component	TOTAL	Drug-induced	Drug-related	Total deaths certified	Total population (2001)
1. Hinds County					249,495
2. Madison County					76,708
3. Rankin County	2	2	—	444	119,141
Total, participating (1)	2	2	_	444	119,141

Metro area population, 2001 445,344 Percent of population covered by DAWN 27%

Areas that are shaded did not participate in DAWN in 2001.

Manchester-Nashua, NH



Metro area population, 2001786,367Percent of population covered by DAWN49%

Metro area overview: Deaths and population by county, 2001

	Deaths involving drug abuse				
Metro area component	TOTAL	Drug-induced	Drug-related	Total deaths certified	Total population (2001)
1. Hillsborough County	21	19	2	425	387,674
2. Rockingham County					284,061
3. Strafford County					114,632
Total, participating (1)	21	19	2	425	387,674

Areas that are shaded did not participate in DAWN in 2001.

Middlesex-Somerset, NJ



Metro area population, 20011,184,281Percent of population covered by DAWN25%

Metro area overview: Deaths and population by county, 2001

	De	aths involving dru	ig abuse		
Metro area component	TOTAL	Drug-induced	Drug-related	Total deaths certified	Total population (2001)
1. Hunterdon County					125,135
2. Middlesex County					757,191
3. Somerset County	14	9	5	429	301,955
Total, participating (1)	14	9	5	429	301,955

Areas that are shaded did not participate in DAWN in 2001.

Norfolk, VA



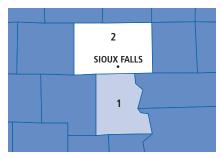
Metro area population, 20011,583,170Percent of population covered by DAWN48%

Metro area overview: Deaths and population by county, 2001

	Dea	aths involving dru			
Metro area component	TOTAL	Drug-induced Drug-related Total deaths certified		Total population (2001)	
Virginia jurisdictions					
1. Chesapeake City					203,796
2. Gloucester County					35,410
3. Hampton City					145,665
4. Isle of Wight County					30,659
5. James City County					50,249
6. Mathews County					9,300
7. Newport News City					180,305
8. Norfolk City	12	12	—	329	233,147
9. Poquoson City					11,694
10. Portsmouth City	4	4	—	93	99,494
11. Suffolk City					67,107
12. Virginia Beach City	8	8	—	160	426,931
13. Williamsburg City					12,102
14. York County					58,293
North Carolina jurisdiction	s				
15. Currituck County					19,018
Total, participating (3)	24	24	_	582	759,572

Areas that are shaded did not participate in DAWN in 2001.

sioux Falls, ND



Metro area overview: Deaths and population by county, 2001

	Deaths involving drug abuse				
Metro area component	TOTAL	Drug-induced	Drug-related	Total deaths certified	Total population (2001)
1. Lincoln County					26,322
2. Minnehaha County	3	3	—	438	150,327
Total, participating (1)	3	3	—	438	150,327

Areas that are shaded did not participate in DAWN in 2001.

Metro area population, 2001176,649Percent of population covered by DAWN85%

AREA SPOTLIGHTS

Atlanta: Fulton County, GA



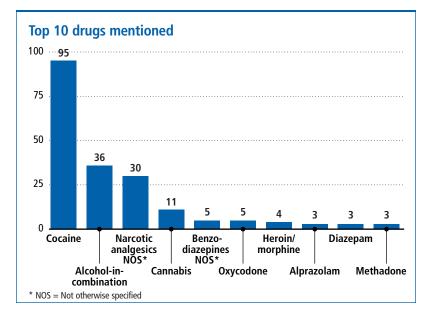
Fulton County, GA: Deaths and population, 2001

Deaths involving drug abuse

131
90
41
1,359
816,638

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	97	6-17	2	White	50
Female	34	18-24	7	Black	81
		25-34	21	Hispanic	—
		35-44	40	All others	—
		45-97	61		



Drug involvement in death by sex and age of decedent Sex Age TOTAL 25-34 35-44 Male Female 6-17 18-24 45-97 Alcohol involved 27% 28% 26% ____ ____ 24% 40% 25% Number of drugs involved Single-drug 56% 55% 62% 50% 71% 67% 45% 59% Multi-drua 44% 45% 38% 50% 29% 33% 55% 41% Cause of death Drug-induced 69% 68% 57% 75% 72% 69% 50% 43% Drug-related 31% 31% 32% 50% 57% 43% 25% 28% Manner of death Suicide 11% 11% 9% 29% 13% 5% ____ ____ Accidental/unexpected 76% 76% 76% 50% 57% 73% 84% 100% All others 13% 15% 50% 15% 12% 14% 11% _

Drug mentions by drug category

Drug category	1997	1998	1999	2000	2001	Single-drug deaths, 2001
Alcohol-in-combination	18	49	33	30	36	_
Cocaine	41	103	121	89	95	53
Heroin/morphine	19	26	25	11	4	—
Marijuana	4	8	8	7	11	7
Amphetamines	—	—	3	2	1	—
Methamphetamine	—	—	1	1	—	—
Club drugs ¹	1	—	2	—	1	1
Hallucinogens ²	—	1	—	—	—	—
nhalants	—	—	4	1	—	—
Narcotic analgesics ³	11	16	23	51	43	11
Other analgesics	1	5	2	2	—	—
Benzodiazepines	3	9	13	12	11	1
Antidepressants	8	10	7	7	5	—
All other substances ³	17	20	20	24	2	1
Total drug deaths	58	125	158	114	131	74
Total drug mentions	123	247	262	237	209	—
Total deaths certified	1,377	1,496	1,397	1,345	1,359	—

SOURCE: Office of Applied Studies, SAMHSA, Drug Abuse Warning Network 2001 (09/2002 update).

Baltimore: Baltimore City, MD



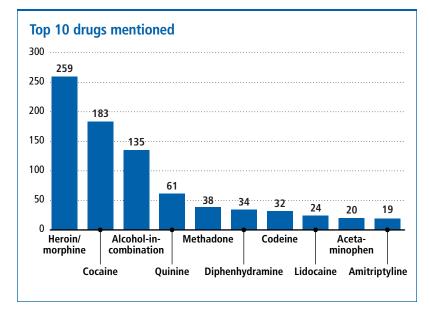
Baltimore City, MD: Deaths and population, 2001

Deaths involving drug abuse

Population (2001)	635,210
Total deaths certified	3,246
Drug-related	24
Drug-induced	305
Total	329

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	262	6-17	2	White	116
Female	67	18-24	9	Black	213
		25-34	59	Hispanic	—
		35-44	151	All others	—
		45-97	101		



Sex Age TOTAL Male Female 6-17 18-24 25-34 35-44 45-97 Alcohol involved 41% 44% 31% 50% 22% 25% 50% 39% Number of drugs involved 13% Single-drug 13% 13% 33% 19% 9% 16% ____ 87% Multi-drug 87% 87% 100% 67% 81% 91% 84% Cause of death Drug-induced 93% 92% 94% 100% 100% 90% 95% 90% Drug-related 7% 8% 6% 10% 5% 10% _ _ Manner of death Suicide 1% 2% 2% 2% _ _ _ Accidental/unexpected 1% 2% 2% 1% 2% 4% ____ _ All others 97% 96% 99% 100% 100% 97% 97% 96%

Drug involvement in death by sex and age of decedent

Drug mentions by drug category

Drug category	1997	1998	1999	2000	2001	Single-dru deaths, 2001
Alcohol-in-combination	186	181	174	196	135	
Cocaine	228	241	232	178	183	14
Heroin/morphine	278	310	344	292	259	25
Marijuana		_	—	_	—	—
Amphetamines		_	—	_	—	—
Methamphetamine	_	_	13		_	—
Club drugs ¹	_	2	2	1	1	—
Hallucinogens ²	_	_		1	1	1
Inhalants	_	_	2		_	—
Narcotic analgesics ³	100	118	71	86	91	4
Other analgesics	28	22	29	25	23	—
Benzodiazepines	18	25	6	16	8	—
Antidepressants	66	80	85	73	72	—
All other substances ³	353	393	305	226	214	—
Total drug deaths	357	379	404	360	329	44
Total drug mentions	1,257	1,372	1,263	1,094	987	—
Total deaths certified	3,464	3,488	3,687	3,507	3,246	

Includes Ecstasy [MDMA], Ketamine, GHB-GBL, and Rohypnol. ² Includes PCP, LSD, and miscellaneous hallucinogens. ³ Not tabulated above.

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Boston: Middlesex County, MA



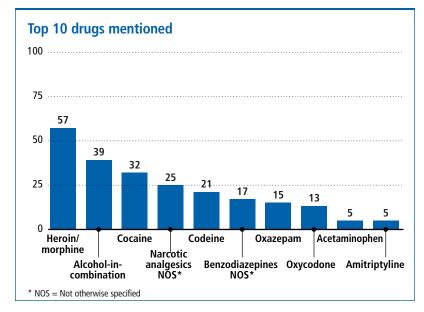
Middlesex County, MA: Deaths and population, 2001

Deaths involving drug abuse

121
112
9
642
1,463,454

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	78	6-17	2	White	113
Female	43	18-24	16	Black	2
		25-34	22	Hispanic	4
		35-44	47	All others	2
		45-97	34		



Sex Age TOTAL 25-34 35-44 Male Female 6-17 18-24 45-97 Alcohol involved 32% 32% 33% _ 19% 45% 36% 26% Number of drugs involved Single-drug 23% 28% 14% 44% 18% 15% 29% ____ Multi-drua 77% 72% 82% 85% 71% 86% 100% 56% Cause of death Drug-induced 93% 96% 85% 90% 98% 100% 88% 100% Drug-related 7% 10% 2% 13% 4% 15% ____ ____ Manner of death Suicide 17% 10% 30% 25% 13% 32% ____ _ Accidental/unexpected 1% 1% 6% ____ _ _ _ _ All others 82% 87% 88% 70% 100% 69% 100% 68%

Drug involvement in death by sex and age of decedent

Drug mentions by drug category

Drug category	1997	1998	1999	2000	2001	Single-drug deaths, 2001
Alcohol-in-combination	28	45	31	32	39	_
Cocaine	28	40	32	35	32	5
Heroin/morphine	47	62	46	57	57	8
Marijuana	—	1	—	1	2	—
Amphetamines	1	—	—	—	1	—
Methamphetamine	1	—	4	—	—	—
Club drugs ¹	—	—	—	1	2	2
Hallucinogens ²	—	—	—	1	—	—
Inhalants	1	1	2	—	—	—
Narcotic analgesics ³	24	43	24	38	74	7
Other analgesics	10	11	5	2	10	2
Benzodiazepines	7	22	4	8	39	2
Antidepressants	16	36	23	11	22	—
All other substances ³	27	24	13	11	25	2
Total drug deaths	81	120	104	104	121	28
Total drug mentions	190	285	184	197	303	—
Total deaths certified	610	637	646	580	642	

Boston: Suffolk County, MA



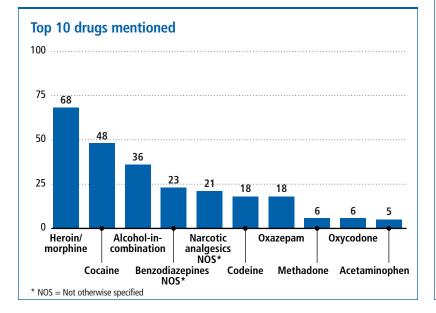
Suffolk County, MA: Deaths and population, 2001

Deaths involving drug abuse

Total	117
Drug-induced	106
Drug-related	11
Total deaths certified	850
Population (2001)	682,062

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	93	6-17	—	White	84
Female	24	18-24	15	Black	22
		25-34	25	Hispanic	7
		35-44	48	All others	4
		45-97	29		



Sex Age TOTAL Male Female 6-17 18-24 25-34 35-44 45-97 Alcohol involved 31% 34% 17% 13% 40% 29% 34% ____ Number of drugs involved 24% Single-drug 25% 21% 20% 24% 21% 31% 76% Multi-drug 75% 79% 80% 76% 79% 69% Cause of death Drug-induced 91% 91% 88% 93% 96% 90% 86% ____ 9% 4% Drug-related 9% 13% 7% 10% 14% _ Manner of death Suicide 4% 7% 4% 4% 7% 4% 2% _ Accidental/unexpected _ ____ _ ____ ____ _ _ ____ All others 96% 96% 96% 93% 96% 98% 93% _

Drug involvement in death by sex and age of decedent

Drug mentions by drug category

Drug category	1997	1998	1999	2000	2001	Single-drug deaths, 2001
Alcohol-in-combination	25	25	33	37	36	
Cocaine	33	31	31	37	48	
Heroin/morphine	37	40	48	51	68	9
Marijuana	—	—	_	1	2	_
Amphetamines			—	_	1	
Methamphetamine	—	—	5	—	1	—
Club drugs ¹	—				2	—
Hallucinogens ²	—	—	—	—	—	—
Inhalants	2	2	2	—	—	_
Narcotic analgesics ³	23	23	21	23	57	3
Other analgesics	9	2	4	4	8	2
Benzodiazepines	6	8	5	7	49	3
Antidepressants	14	14	16	11	5	1
All other substances ³	17	17	2	7	4	2
Total drug deaths	74	82	100	94	117	28
Total drug mentions	166	162	167	178	281	_
Total deaths certified	750	766	771	753	850	—

Includes Ecstasy [MDMA], Ketamine, GHB-GBL, and Rohypnol. ² Includes PCP, LSD, and miscellaneous hallucinogens. ³ Not tabulated above.

SOURCE: Office of Applied Studies, SAMHSA, Drug Abuse Warning Network 2001 (09/2002 update).

Buffalo: Erie County, NY



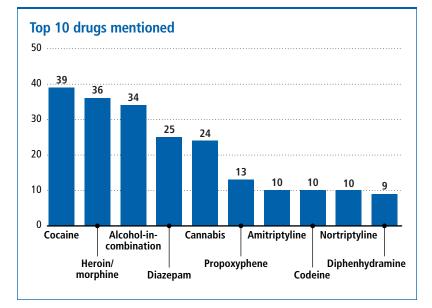
Erie County, NY: Deaths and population, 2001

Deaths involving drug abuse Total

Total	114
Drug-induced	54
Drug-related	60
Total deaths certified	1,017
Population (2001)	944,408

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	86	6-17	1	White	81
Female	28	18-24	6	Black	30
		25-34	12	Hispanic	3
		35-44	36	All others	—
		45-97	59		



Drug involvement in death by sex and age of decedent Sex Age TOTAL Male Female 6-17 18-24 25-34

	TOTAL	Male	Female	6-17	18-24	25-34	35-44	45-97
Alcohol involved	30%	30%	29%	_	_	33%	39%	27%
Number of drugs involved	d							
Single-drug	18%	19%	14%	100%	50%	17%	22%	10%
Multi-drug	82%	81%	86%		50%	83%	78%	90%
Cause of death								
Drug-induced	47%	47%	50%	_	17%	50%	56%	46%
Drug-related	53%	53%	50%	100%	83%	50%	44%	54%
Manner of death								
Suicide	18%	16%	25%	—	50%	8%	11%	22%
Accidental/unexpected	12%	13%	11%	100%	33%	8%	22%	3%
All others	69%	71%	64%	—	17%	83%	67%	75%

Drug mentions by drug category

Drug category	1997	1998	1999	2000	2001	Single-dru deaths, 2001
Alcohol-in-combination	35	34	33	40	34	_
Cocaine	31	27	36	27	39	6
Heroin/morphine	42	23	37	28	36	4
Marijuana	13	17	12	19	24	6
Amphetamines	—		1	—	—	—
Methamphetamine	—	1	1	—	—	—
Club drugs ¹	—	1	1	2	1	1
Hallucinogens ²	—		—	—	—	—
Inhalants	1	3	—	—	—	—
Narcotic analgesics ³	51	31	26	39	52	—
Other analgesics	15	3	8	—	7	—
Benzodiazepines	25	13	18	15	39	—
Antidepressants	55	29	36	29	55	1
All other substances ³	89	42	37	30	52	2
Total drug deaths	128	82	100	83	114	20
Total drug mentions	357	224	246	229	339	_
Total deaths certified	972	938	987	943	1,017	

SOURCE: Office of Applied Studies, SAMHSA, Drug Abuse Warning Network 2001 (09/2002 update).

Chicago: Cook County, IL



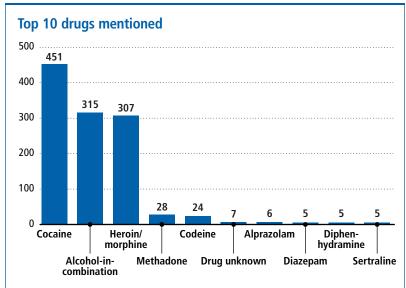
Cook County, IL: Deaths and population, 2001

Deaths involving drug abuse

Total	679		
Drug-induced	504		
Drug-related	175		
Total deaths certified	5,161		
Population (2001)	5,350,269		

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	527	6-17	5	White	240
Female	149	18-24	47	Black	343
		25-34	151	Hispanic	88
		35-44	279	All others	8
		45-97	195		



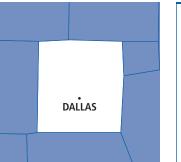
Drug involvement in death by sex and age of decedent

		Sex		Age				
	TOTAL	Male	Female	6-17	18-24	25-34	35-44	45-97
Alcohol involved	46%	49%	38%	60%	47%	45%	47%	47%
Number of drugs involve	d							
Single-drug	38%	37%	40%	20%	32%	34%	39%	39%
Multi-drug	62%	63%	60%	80%	68%	66%	61%	61%
Cause of death								
Drug-induced	74%	75%	72%	40%	55%	66%	75%	85%
Drug-related	26%	25%	28%	60%	45%	34%	25%	15%
Manner of death								
Suicide	25%	24%	27%	60%	43%	31%	24%	16%
Accidental/unexpected	15%	15%	15%	—	9%	10%	15%	21%
All others	60%	61%	58%	40%	49%	59%	61%	63%

Drug mentions by drug category

Drug category	1997	1998	1999	2000	2001	Single-drug deaths, 2001
Alcohol-in-combination	268	321	329	338	315	
Cocaine	350	409	460	386	451	160
Heroin/morphine	334	375	412	438	307	73
Marijuana	2					_
Amphetamines	1		—	1	1	—
Methamphetamine	_		—	1	1	—
Club drugs ¹	_	—	—	3	4	1
Hallucinogens ²	6	3	1	4	4	—
Inhalants	_		—	—	5	1
Narcotic analgesics ³	116	125	124	107	61	13
Other analgesics	17	13	14	7	5	1
Benzodiazepines	22	7	8	10	11	_
Antidepressants	52	27	24	30	19	4
All other substances ³	46	17	45	26	24	2
Total drug deaths	613	672	751	703	679	255
Total drug mentions	1,214	1,297	1,417	1,351	1,208	_
Total deaths certified	5,262	5,439	5,481	5,301	5,161	—
¹ Includes Ecstasy [MDMA], Keta	amine, GHB-GBL, ar	nd Rohypnol. 2	ncludes PCP, LSD, an	d miscellaneous ha	llucinogens. ³ No	t tabulated above.

Dallas: Dallas County, TX

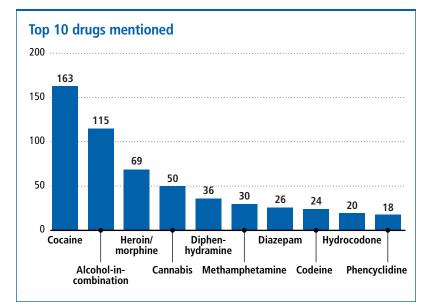


Dallas County, TX: Deaths and population, 2001
Deaths involving drug abuse

Deaths involving and abus	C
Total	285
Drug-induced	189
Drug-related	96
Total deaths certified	2,562
Population (2001)	2,245,398

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age	1	Race/Ethnicity	
Male	216	6-17	1	White	133
Female	68	18-24	44	Black	96
		25-34	64	Hispanic	51
		35-44	83	All others	5
		45-97	93		



Drug involvement in death by sex and age of decedent

			Sex			Age		
	TOTAL	Male	Female	6-17	18-24	25-34	35-44	45-97
Alcohol involved	40%	43%	34%	_	41%	55%	36%	34%
Number of drugs involve	d							
Single-drug	21%	21%	22%	100%	14%	20%	22%	24%
Multi-drug	79%	79%	78%	—	86%	80%	78%	76%
Cause of death								
Drug-induced	66%	66%	66%	—	50%	50%	70%	83%
Drug-related	34%	34%	34%	100%	50%	50%	30%	17%
Manner of death								
Suicide	29%	29%	29%	100%	36%	44%	24%	18%
Accidental/unexpected	14%	14%	15%	—	11%	9%	12%	22%
All others	57%	57%	56%	—	52%	47%	64%	60%

Drug mentions by drug category

Drug category	1997	1998	1999	2000	2001	Single-drug deaths, 2001
Alcohol-in-combination	174	133	119	100	115	
Cocaine	126	130	132	140	163	35
Heroin/morphine	62	62	68	81	69	3
Marijuana	98	85	84	70	50	—
Amphetamines	10	5	3	6	2	1
Methamphetamine	17	7	7	19	30	11
Club drugs ¹	4	2	1	6	10	1
Hallucinogens ²	—	_	4	7	18	5
Inhalants	—	_	_		1	_
Narcotic analgesics ³	49	42	46	83	66	3
Other analgesics	34	34	34	25	16	_
Benzodiazepines	52	41	45	63	42	_
Antidepressants	73	63	68	61	46	_
All other substances ³	186	156	117	167	77	1
Total drug deaths	329	316	273	271	285	60
Total drug mentions	885	760	728	828	705	_
Total deaths certified	2,988	3,079	2,997	3,283	2,562	—

SOURCE: Office of Applied Studies, SAMHSA, Drug Abuse Warning Network 2001 (09/2002 update).

Denver: Denver County, CO



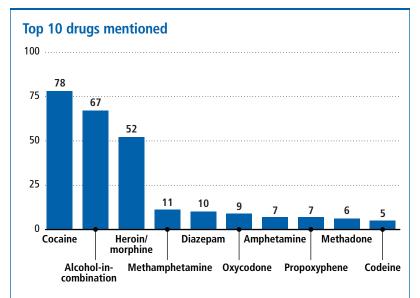
Denver County, CO: Deaths and population, 2001

Deaths involving drug abuse

Total	147
Drug-induced	101
Drug-related	46
Total deaths certified	2,867
Population (2001)	554,446

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	112	6-17	_	White	78
Female	34	18-24	12	Black	20
•••••		25-34	25	Hispanic	45
		35-44	57	All others	4
		45-97	53		



Drug involvement in death by sex and age of decedent

			5ex					
	TOTAL	Male	Female	6-17	18-24	25-34	35-44	45-97
Alcohol involved	46%	47%	38%	—	33%	64%	51%	34%
Number of drugs involved	d							
Single-drug	32%	34%	26%	_	42%	28%	23%	42%
Multi-drug	68%	66%	74%	—	58%	72%	77%	58%
Cause of death								
Drug-induced	69%	71%	59%	_	67%	60%	68%	74%
Drug-related	31%	29%	41%	—	33%	40%	32%	26%
Manner of death								
Suicide	13%	9%	26%	_	_	32%	11%	9%
Accidental/unexpected	60%	64%	44%	—	83%	48%	67%	53%
All others	27%	27%	29%	—	17%	20%	23%	38%

Drug mentions by drug category

Drug category	1997	1998	1999	2000	2001	Single-drug deaths, 2001
Alcohol-in-combination	36	42	52	45	67	_
Cocaine	40	45	56	57	78	24
Heroin/morphine	42	35	63	40	52	11
Marijuana	—			—	1	—
Amphetamines	1	1	3	6	7	—
Methamphetamine	1	1	5	4	11	1
Club drugs ¹	—	—	—	1	1	1
Hallucinogens ²	—	—	—	1	—	—
Inhalants	—	1	—	—	—	—
Narcotic analgesics ³	20	8	28	29	35	6
Other analgesics	2	3	2	5	3	_
Benzodiazepines	2	2	16	14	18	1
Antidepressants	14	14	15	14	11	_
All other substances ³	4	11	12	23	12	3
Total drug deaths	84	84	135	123	147	47
Total drug mentions	162	163	252	239	296	_
Total deaths certified	2,885	2,879	2,940	2,943	2,867	—

Detroit: Wayne County, MI



Wayne County, MI: Deaths and population, 2001

Deaths involving drug abuse
Total
Drug-induced

Total deaths certified	3,256
Population (2001)	2,045,473

446 237 209

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	321	6-17	4	White	195
Female	125	18-24	11	Black	240
		25-34	61	Hispanic	10
		35-44	138	All others	1
		45-97	232	•••••	

Drug-related

Top 10 drugs mentioned 200 **195 193** 150 135 100 86 60 55 50 44 34 30 26 0 Diphen-hydramine Hydrocodone Cocaine Alcohol-in-Lidocaine combination Heroin/ Codeine Diazepam Methadone Alprazolam morphine

			Sex		Age			
	TOTAL	Male	Female	6-17	18-24	25-34	35-44	45-97
Alcohol involved	30%	32%	26%	—	27%	30%	32%	30%
Number of drugs involve	d							
Single-drug	21%	21%	22%	25%	36%	11%	18%	25%
Multi-drug	79%	79%	78%	75%	64%	89%	82%	75%
Cause of death								
Drug-induced	53%	57%	44%	_	73%	72%	60%	44%
Drug-related	47%	43%	56%	100%	27%	28%	40%	56%
Manner of death								
Suicide	6%	6%	4%	_	18%	5%	7%	5%
Accidental/unexpected	58%	58%	58%	50%	73%	82%	62%	49%
All others	36%	36%	38%	50%	9%	13%	31%	47%

Drug mentions by drug category

Drug category	1997	1998	1999	2000	2001	Single-drug deaths, 2001
Alcohol-in-combination	92	111	122	154	135	_
Cocaine	174	186	169	194	195	40
Heroin/morphine	145	148	127	179	193	22
Marijuana	—	—	—	—	—	—
Amphetamines	—	—	—	1	—	—
Methamphetamine	—	—	—		3	—
Club drugs ¹	—	1	1	2	1	1
Hallucinogens ²	—	1	—		—	—
Inhalants	3	—	1		—	—
Narcotic analgesics ³	127	150	169	152	188	15
Other analgesics	11	9	13	17	4	1
Benzodiazepines	77	81	73	88	94	3
Antidepressants	69	103	95	86	97	1
All other substances ³	304	294	363	299	267	11
Total drug deaths	364	412	412	402	446	94
Total drug mentions	1,002	1,084	1,133	1,172	1,177	_
Total deaths certified	3,046	2,928	3,316	3,327	3,256	—
¹ Includes Ecstasy [MDMA], Ket	amine, GHB-GBL, a	nd Rohypnol.	² Includes PCP, LSD, a	nd miscellaneous ha	allucinogens. ³ N	ot tabulated above

SOURCE: Office of Applied Studies, SAMHSA, Drug Abuse Warning Network 2001 (09/2002 update).

Kansas City: Jackson County, MO

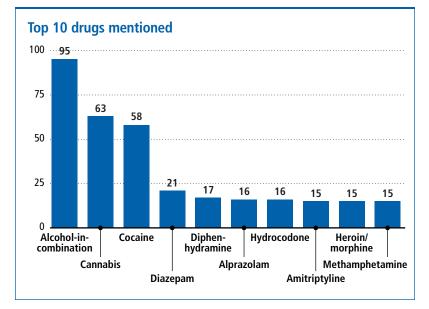


Jackson County, MO: Deaths and population, 2001

Deaths involving drug abuse	•
Total	252
Drug-induced	146
Drug-related	106
Total deaths certified	2,028
Population (2001)	655,855

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	172	6-17	8	White	174
Female	80	18-24	31	Black	69
		25-34	39	Hispanic	8
		35-44	66	All others	1
		45-97	108	•••••	



Sex Age TOTAL Male Female 6-17 18-24 25-34 35-44 45-97 Alcohol involved 38% 41% 31% 38% 42% 46% 41% 31% Number of drugs involved 32% Single-drug 31% 35% 25% 39% 18% 26% 40% 68% Multi-drug 69% 65% 75% 61% 82% 74% 60% Cause of death Drug-induced 58% 55% 65% 38% 23% 46% 64% 70% 42% 45% 35% 77% 54% Drug-related 63% 36% 30% Manner of death Suicide 22% 23% 20% 13% 39% 26% 21% 18% 63% 55% Accidental/unexpected 44% 45% 43% 51% 50% 33%

38%

25%

6%

23%

29%

49%

Drug involvement in death by sex and age of decedent

Drug mentions by drug category

34%

32%

All others

Drug category	1997	1998	1999	2000	2001	Single-drug deaths, 2001
Alcohol-in-combination	34	64	67	72	95	_
Cocaine	35	52	57	56	58	14
Heroin/morphine	10	19	21	20	15	5
Marijuana	33	51	55	46	63	17
Amphetamines	24	16	14	5	12	—
Methamphetamine	25	16	13	6	15	2
Club drugs ¹	—	1	—	—	2	—
Hallucinogens ²	2	—	6	7	10	5
Inhalants	1	—	—	1	_	—
Narcotic analgesics ³	27	56	43	72	63	14
Other analgesics	5	10	14	8	11	2
Benzodiazepines	28	82	78	73	55	4
Antidepressants	36	45	73	80	71	8
All other substances ³	49	68	106	82	98	10
Total drug deaths	136	231	237	222	252	81
Total drug mentions	309	480	547	528	568	—
Total deaths certified	1,659	1,743	2,012	1,961	2,028	—

Includes Ecstasy [MDMA], Ketamine, GHB-GBL, and Rohypnol. ² Includes PCP, LSD, and miscellaneous hallucinogens. ³ Not tabulated above.

Long Island: Nassau County, NY



Nassau County, NY: Deaths and population, 2001

Deaths involving drug abuse

102
90
12
4,869
1,334,648

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	76	6-17	1	White	83
Female	26	18-24	6	Black	17
		25-34	20	Hispanic	—
		35-44	35	All others	2
		45-97	40		

Top 10 drugs mentioned 60 49 49 50 40 40 30 19 20 14 12 11 11 11 10 6 ٥ Cocaine Heroin/ Alcohol-in-Amitriptyline Nortriptyline morphine combination Methamphetamine Diazepam Acetaminophen Methadone Diphenhydramine

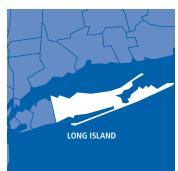
Drug involvement in death by sex and age of decedent Sex Age TOTAL 25-34 35-44 Male Female 6-17 18-24 45-97 Alcohol involved 5% 14% 14% 12% ____ 23% 13% ____ Number of drugs involved Single-drug 16% 16% 15% 33% 10% 9% 23% ____ Multi-drua 84% 84% 85% 67% 90% 91% 100% 78% Cause of death Drug-induced 87% 92% 94% 90% 88% 100% 17% 95% Drug-related 12% 13% 8% 83% 5% 6% 10% ____ Manner of death Suicide 10% 7% 19% 33% 15% 6% 8% ____ Accidental/unexpected 75% 78% 65% 100% 67% 85% 77% 68% All others 16% 16% 15% 17% 25% ____ ____ _

Drug mentions by drug category

Drug category	1997	1998	1999	2000	2001	Single-dru deaths, 2001
Alcohol-in-combination	22	_	7	6	14	
Cocaine	37	39	54	27	49	—
Heroin/morphine	32	35	38	44	40	5
Marijuana	53	4	18	11	2	—
Amphetamines	_	_	—	—	1	—
Methamphetamine	_		42	38	49	—
Club drugs ¹	1	2	—	1	3	1
Hallucinogens ²	—	1	8	10	3	1
Inhalants	2	3	1	1	—	—
Narcotic analgesics ³	20	13	27	20	39	3
Other analgesics	7	6	10	14	9	1
Benzodiazepines	9	10	11	10	15	1
Antidepressants	12	22	31	33	35	—
All other substances ³	38	35	28	44	43	4
Total drug deaths	108	85	103	102	102	16
Total drug mentions	233	170	275	259	302	—
Total deaths certified	5,007	4,675	4,628	4,817	4,869	

SOURCE: Office of Applied Studies, SAMHSA, Drug Abuse Warning Network 2001 (09/2002 update).

Long Island: Suffolk County, NY



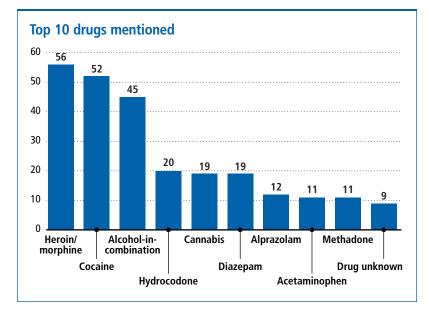
Suffolk County, NY: Deaths and population, 2001

Deaths involving drug abuse

Total	111
Drug-induced	102
Drug-related	9
Total deaths certified	4,454
Population (2001)	1,438,973

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	83	6-17	_	White	90
Female	27	18-24	12	Black	8
		25-34	21	Hispanic	6
		35-44	47	All others	7
		45-97	31		



			Sex			Age		
	TOTAL	Male	Female	6-17	18-24	25-34	35-44	45-97
Alcohol involved	41%	43%	30%		33%	57%	38%	35%
Number of drugs involve	d							
Single-drug	11%	11%	11%		8%	5%	15%	10%
Multi-drug	89%	89%	89%	—	92%	95%	85%	90%
Cause of death								
Drug-induced	92%	89%	100%		100%	95%	91%	87%
Drug-related	8%	11%	—	—	—	5%	9%	13%
Manner of death								
Suicide	7%	5%	15%	-	_	_	9%	13%
Accidental/unexpected	70%	78%	44%	—	83%	67%	64%	77%
All others	23%	17%	41%	—	17%	33%	28%	10%

Drug involvement in death by sex and age of decedent

Drug mentions by drug category

Drug category	1997	1998	1999	2000	2001	Single-drug deaths, 2001
Alcohol-in-combination	22	34	36	42	45	
Cocaine		38	40	42	52	5
Heroin/morphine	36	37	67	52	56	2
Marijuana	14	19	25	12	19	
Amphetamines		2	_		1	—
Methamphetamine		2	—	_	_	—
Club drugs ¹		—	1	2	1	—
Hallucinogens ²	—	1	1	—	2	1
Inhalants	1	2	—	2	—	—
Narcotic analgesics ³	20	29	42	53	59	1
Other analgesics	13	19	21	22	20	1
Benzodiazepines	20	23	25	21	35	—
Antidepressants	7	31	46	63	30	—
All other substances ³	32	73	74	64	40	2
Total drug deaths	62	88	112	107	111	12
Total drug mentions	184	310	378	375	360	—
Total deaths certified	4,154	4,275	4,256	4,402	4,454	—

¹ Includes Ecstasy [MDMA], Ketamine, GHB-GBL, and Rohypnol. ² Includes PCP, LSD, and miscellaneous hallucinogens. ³ Not tabulated above.

Milwaukee: Milwaukee County, WI

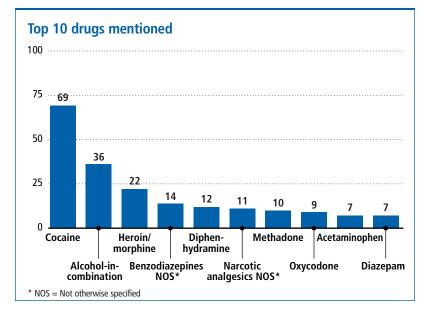


Milwaukee County, WI: Deaths and population, 2001

Deaths involving drug abuse	
Total	123
Drug-induced	104
Drug-related	19
Total deaths certified	1,851
Population (2001)	932,012

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	78	6-17	2	White	83
Female	45	18-24	6	Black	32
••••••		25-34	15	Hispanic	6
		35-44	48	All others	2
		45-97	52		



Drug involvement in death by sex and age of decedent Sex Age TOTAL 25-34 Male Female 6-17 18-24 35-44 Alcohol involved 29% 31% 27% ____ 50% 13% 40% Number of drugs involved

23% Single-drug 32% 28% 38% 33% 27% 40% ____ ____ Multi-drua 68% 72% 62% 67% 73% 100% 60% 100% Cause of death Drug-induced 85% 88% 78% 100% 50% 100% 79% 88% Drug-related 15% 12% 22% 50% 21% 12% ____ ____ Manner of death Suicide 20% 17% 27% 50% 33% 20% 13% 25% Accidental/unexpected 70% 72% 67% 50% 33% 80% 79% 63% All others 10% 12% 7% 33% 8% 12% ____ ____

45-97

Drug mentions by drug category

Drug category	1997	1998	1999	2000	2001	Single-dru deaths, 2001
Alcohol-in-combination	_	_	_	46	36	_
Cocaine	—		—	63	69	20
Heroin/morphine	—		—	23	22	2
Marijuana	—		—	5	2	—
Amphetamines	—			—	2	—
Methamphetamine	—		—	—	1	—
Club drugs ¹	—		—	—	2	—
Hallucinogens ²	—		—	—	—	—
Inhalants	—		—	—	—	—
Narcotic analgesics ³	—			60	45	6
Other analgesics	—			16	11	2
Benzodiazepines	—		—	28	27	3
Antidepressants	—		—	30	23	2
All other substances ³	—		—	47	38	4
Total drug deaths	_	_	_	110	123	39
Total drug mentions		_	_	318	278	_
Total deaths certified	—			1,936	1,851	—

SOURCE: Office of Applied Studies, SAMHSA, Drug Abuse Warning Network 2001 (09/2002 update).

Minneapolis-St. Paul: Hennepin County, MN



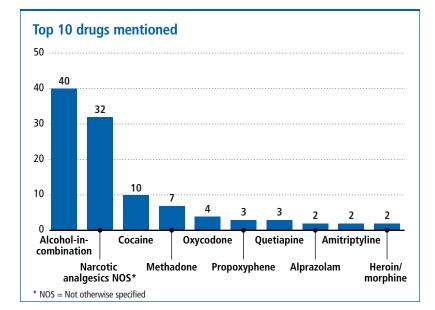
Hennepin County, MN: Deaths and population, 2001

Deaths involving drug abuse Total

Total	76
Drug-induced	69
Drug-related	7
Total deaths certified	1,378
Population (2001)	1,114,977

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	57	6-17	1	White	53
Female	19	18-24	6	Black	21
		25-34	9	Hispanic	—
		35-44	29	All others	2
		45-97	31		



Drug involvement in death by sex and age of decedent

			Sex			Age		
	TOTAL	Male	Female	6-17	18-24	25-34	35-44	45-97
Alcohol involved	53%	49%	63%	_	17%	33%	66%	55%
Number of drugs involved	d							
Single-drug	42%	46%	32%	—	83%	67%	31%	39%
Multi-drug	58%	54%	68%	100%	17%	33%	69%	61%
Cause of death								
Drug-induced	91%	91%	89%	100%	100%	100%	90%	87%
Drug-related	9%	9%	11%	—	—	—	10%	13%
Manner of death								
Suicide	28%	19%	53%	100%	33%	_	24%	35%
Accidental/unexpected	71%	79%	47%	—	67%	100%	76%	61%
All others	1%	2%	—	—	—	—	—	3%

Drug mentions by drug category

Drug category	1997	1998	1999	2000	2001	Single-drug deaths, 2001
Alcohol-in-combination	24	27	24	28	40	_
Cocaine	27	8	13	6	10	5
Heroin/morphine	18	21	16	7	2	1
Marijuana		—	—	—	1	—
Amphetamines	1	—	—	—	1	—
Methamphetamine	2	2	2	—	1	1
Club drugs ¹	_	1	1	2	—	—
Hallucinogens ²	—	—	—	—	1	—
Inhalants	1	—	—	—	—	—
Narcotic analgesics ³	16	13	8	25	49	20
Other analgesics	2	2	2	6	6	1
Benzodiazepines	6	1	2	7	5	—
Antidepressants	10	23	15	7	6	2
All other substances ³	15	12	4 11	9	2	
Total drug deaths	57	56	45	52	76	32
Total drug mentions	122	110	87	99	131	—
Total deaths certified	1,401	1,348	1,274	1,314	1,378	—

Includes Ecstasy [MDMA], Ketamine, GHB-GBL, and Rohypnol. ² Includes PCP, LSD, and miscellaneous hallucinogens. ³ Not tabulated above.

Minneapolis-St. Paul: Ramsey County, MN



Ramsey County, MN: Deaths and population, 2001

Deaths involving drug abuse

Total	47
Drug-induced	32
Drug-related	15
Total deaths certified	1,214
Population (2001)	508,667

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	30	6-17	_	White	34
Female	17	18-24	5	Black	7
		25-34	11	Hispanic	2
		35-44	12	All others	4
		45-97	19	•••••	

Top 10 drugs mentioned 50 40 30 2018 16 13 9 108...... 6 6 5 0 Cannabis Acetaminophen Diazepam Heroin/ Cocaine morphine Alcohol-in-Benzodiazepines Amitriptyline combination Codeine NOS* Hydrocodone * NOS = Not otherwise specified

Drug involvement in death by sex and age of decedent Sex Age TOTAL Male Female 6-17 18-24 25-34 35-44 45-97 Alcohol involved 34% 43% 18% 36% 42% 37% _ _ Number of drugs involved Single-drug 15% 17% 12% 20% 18% 8% 16% ____ Multi-drua 85% 88% 80% 82% 92% 83% 84% ____ Cause of death Drug-induced 68% 53% 94% 60% 64% 58% 79% ____ Drug-related 32% 47% 6% 40% 36% 42% 21% ____ Manner of death Suicide 21% 7% 47% 40% 27% 26% ____ _ Accidental/unexpected 57% 67% 41% 64% 75% 42% 60% All others 21% 27% 12% 9% 25% 32% ____ _

Drug mentions by drug category

Drug category	1997	1998	1999	2000	2001	Single-drug deaths, 2001
Alcohol-in-combination	12	12	9	15	16	_
Cocaine	8	8	17	13	13	4
Heroin/morphine	7	10	11	9	18	1
Marijuana	9	12	9	11	8	1
Amphetamines	2	6	3	1	2	—
Methamphetamine	2	4	3	2	2	—
Club drugs ¹	—	—	1	2	_	_
Hallucinogens ²	—	—	—		_	—
Inhalants	—	—	—		_	—
Narcotic analgesics ³	11	12	18	11	23	_
Other analgesics	5	6	7	1	11	_
Benzodiazepines	4	7	8	12	15	_
Antidepressants	5	10	13	5	11	_
All other substances ³	11	16	14	5	14	1
Total drug deaths	29	39	37	36	47	7
Total drug mentions	76	103	113	87	133	_
Total deaths certified	1,276	1,302	1,253	1,344	1,214	_

SOURCE: Office of Applied Studies, SAMHSA, Drug Abuse Warning Network 2001 (09/2002 update).

New Orleans: Orleans Parish, LA



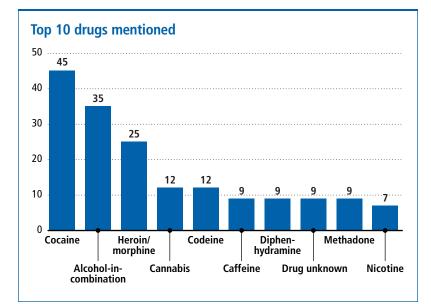
Orleans Parish, LA: Deaths and population, 2001

Deaths involving drug abuse

Total	84
Drug-induced	59
Drug-related	25
Total deaths certified	1,876
Population (2001)	476,492

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	72	6-17	_	White	38
Female	12	18-24	17	Black	42
		25-34	18	Hispanic	2
		35-44	21	All others	2
		45-97	28		



Sex Age TOTAL Male Female 6-17 18-24 25-34 35-44 45-97 Alcohol involved 42% 44% 25% 59% 39% 43% 32% ____ Number of drugs involved 20% 42% 25% Single-drug 17% 18% 17% 19% 80% Multi-drug 83% 58% 82% 83% 81% 75% ____ Cause of death Drug-induced 70% 71% 67% .___. 76% 78% 71% 61% Drug-related 30% 29% 33% 22% 29% _ 24% 39% Manner of death Suicide 10% 8% 17% 18% 5% 7% ____ 11% Accidental/unexpected 65% 67% 58% 71% 67% 76% 54% 19% All others 25% 25% 25% 12% 22% 39%

Drug involvement in death by sex and age of decedent

Drug mentions by drug category

Drug category	1997	1998	1999	2000	2001	Single-drug deaths, 2001
Alcohol-in-combination	19	25	41	44	35	_
Cocaine	36	36	50	60	45	13
Heroin/morphine	16	28	37	45	25	1
Marijuana	13	21	21	23	12	2
Amphetamines			_	—	—	_
Methamphetamine			_	—	_	_
Club drugs ¹		1	4	2	6	—
Hallucinogens ²			1	—	—	—
Inhalants			_	—	_	_
Narcotic analgesics ³	13	21	52	25	44	—
Other analgesics	8	7	3	6	5	—
Benzodiazepines		14	6	13	6	—
Antidepressants	4	2	12	7	9	1
All other substances ³	15	12	37	25	62	—
Total drug deaths	56	76	94	103	84	17
Total drug mentions	124	167	264	250	249	_
Total deaths certified	2,086	2,027	1,895	1,844	1,876	—

Includes Ecstasy [MDMA], Ketamine, GHB-GBL, and Rohypnol. ² Includes PCP, LSD, and miscellaneous hallucinogens. ³ Not tabulated above.

Newark: Essex County, NJ



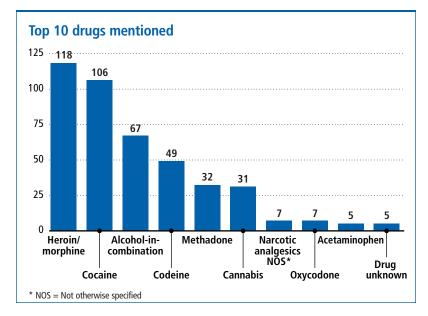
Essex County, NJ: Deaths and population, 2001

Deaths involving drug abuse

215
149
66
2,441
793,133

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	159	6-17	3	White	56
Female	56	18-24	25	Black	129
		25-34	56	Hispanic	24
		35-44	69	All others	6
		45-97	60	•••••	



Drug involvement in death by sex and age of decedent Sex Age TOTAL Male 6-17 18-24 25-34 35-44 45-97 Female Alcohol involved 31% 36% 27% 35% 18% _ 24% 35% Number of drugs involved Single-drug 28% 29% 25% 67% 36% 23% 23% 32% Multi-drug 72% 75% 33% 64% 77% 77% 68% 71%

Cause of death								
Drug-induced	69%	63%	88%	33%	44%	61%	81%	76%
Drug-related	31%	37%	13%	67%	56%	39%	19%	24%
Manner of death								
Suicide	—	—	_	—	_	_	_	_
Accidental/unexpected	52%	55%	45%	67%	64%	54%	39%	60%
All others	48%	45%	55%	33%	36%	46%	61%	40%

Drug mentions by drug category

Drug category	1997	1998	1999	2000	2001	Single-drug deaths, 2001
Alcohol-in-combination	50	35	50	47	67	_
Cocaine	104	86	92	88	106	21
Heroin/morphine	94	61	81	110	118	12
Marijuana	20	14	18	9	31	15
Amphetamines	—	—	—	—	_	—
Methamphetamine	—	—	—	1	—	—
Club drugs ¹	—	—	—	1	2	—
Hallucinogens ²	—	—	—	1	—	—
Inhalants	—	—	—	—	—	—
Narcotic analgesics ³	13	15	22	25	103	10
Other analgesics	5	2	5	—	7	—
Benzodiazepines	13	12	11	9	6	—
Antidepressants	20	11	11	22	16	1
All other substances ³	7	8	6	2	13	1
Total drug deaths	145	127	144	158	215	60
Total drug mentions	326	244	296	315	469	—
Total deaths certified	2,446	2,738	2,620	2,487	2,441	—

SOURCE: Office of Applied Studies, SAMHSA, Drug Abuse Warning Network 2001 (09/2002 update).

Philadelphia: Camden County, NJ



Camden County, NJ: Deaths and population, 2001

Deaths involving drug abuse Total

Drug-induced

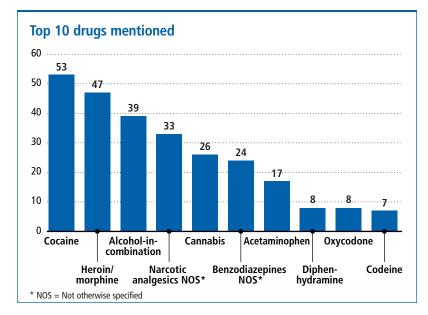
Drug-related	26
Total deaths certified Population (2001)	1,374 509,350

113

87

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	77	6-17	2	White	74
Female	36	18-24	20	Black	33
		25-34	22	Hispanic	6
		35-44	39	All others	—
		45-97	30		



Drug involvement in death by sex and age of decedent

		Sex			Age			
	TOTAL	Male	Female	6-17	18-24	25-34	35-44	45-97
Alcohol involved	35%	40%	22%	_	30%	36%	44%	27%
Number of drugs involved	ł							
Single-drug	13%	12%	17%	100%	25%	14%	8%	7%
Multi-drug	87%	88%	83%	—	75%	86%	92%	93%
Cause of death								
Drug-induced	77%	71%	89%	—	50%	64%	95%	87%
Drug-related	23%	29%	11%	100%	50%	36%	5%	13%
Manner of death								
Suicide	16%	16%	17%	50%	25%	23%	8%	13%
Accidental/unexpected	60%	66%	47%	50%	70%	73%	64%	40%
All others	24%	18%	36%	—	5%	5%	28%	47%

Drug mentions by drug category

Drug category	1997	1998	1999	2000	2001	Single-drug deaths, 2001
Alcohol-in-combination	41	32	43	43	39	_
Cocaine	60	32	51	44	53	8
Heroin/morphine	75	31	42	48	47	1
Marijuana	22	28	18	21	26	5
Amphetamines	1	1	1	—	3	—
Methamphetamine	1	1	—	—	1	—
Club drugs ¹	—	—	1	—	—	—
Hallucinogens ²	1	4	2	2	2	—
Inhalants	3	1	4	—	1	1
Narcotic analgesics ³	31	28	27	64	65	_
Other analgesics	16	13	20	21	27	_
Benzodiazepines	62	46	44	52	37	_
Antidepressants	12	20	7	27	23	_
All other substances ³	50	25	45	35	34	—
Total drug deaths	127	98	108	117	113	15
Total drug mentions	375	262	305	357	358	_
Total deaths certified	1,642	1,446	1,397	1,497	1,374	—

¹ Includes Ecstasy [MDMA], Ketamine, GHB-GBL, and Rohypnol. ² Includes PCP, LSD, and miscellaneous hallucinogens. ³ Not tabulated above.

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Philadelphia: Philadelphia County, PA



Philadelphia County, PA: Deaths and population, 2001

Deaths involving drug abuse

Total	492
Drug-induced	433
Drug-related	59
Total deaths certified	5,632
Population (2001)	1,491,812

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	369	6-17	3	White	253
Female	118	18-24	50	Black	199
		25-34	91	Hispanic	39
		35-44	184	All others	1
		45-97	164		

Top 10 drugs mentioned 300 284 266 250 200 169 150 100 100 48 42 50 .41 39 38 35 0 Cocaine Alcohol-in-Oxycodone Diphen-Hydrocodone combination hydramine Heroin/morphine Codeine Methadone Propoxyphene Diazepam

Drug involvement in death by sex and age of decedent Sex Age TOTAL 25-34 35-44 Male Female 6-17 18-24 45-97 Alcohol involved 34% 36% 31% ____ 22% 33% 40% 34% Number of drugs involved Single-drug 15% 14% 19% 12% 15% 14% 19% ____ Multi-drua 85% 86% 81% 88% 85% 86% 100% 81% Cause of death Drug-induced 93% 89% 88% 86% 100% 74% 84% 94% Drug-related 12% 14% 7% 26% 16% 11% 6% ____ Manner of death Suicide 10% 9% 10% 16% 11% 10% 7% ____ Accidental/unexpected 75% 75% 72% 67% 80% 85% 72% 70% All others 16% 15% 18% 33% 4% 4% 18% 23%

Drug mentions by drug category

Drug category	1997	1998	1999	2000	2001	Single-dru deaths, 2001
Alcohol-in-combination	160	137	144	194	169	_
Cocaine	326	276	293	310	284	49
Heroin/morphine	380	272	254	319	266	16
Marijuana	—	—	—	—	_	—
Amphetamines	9	4	9	3	10	—
Methamphetamine	13	4	5	3	5	—
Club drugs ¹	1	—	6	5	13	—
Hallucinogens ²	25	24	22	25	30	4
Inhalants	2	—	1	—	_	—
Narcotic analgesics ³	311	221	271	348	277	6
Other analgesics	40	27	10	12	14	—
Benzodiazepines	80	95	58	72	94	—
Antidepressants	94	170	127	156	161	1
All other substances ³	198	212	203	234	229	—
Total drug deaths	554	467	453	528	492	76
Total drug mentions	1,639	1,442	1,403	1,681	1,552	—
Total deaths certified	5,710	5,632	5,841	5,666	5,632	—

SOURCE: Office of Applied Studies, SAMHSA, Drug Abuse Warning Network 2001 (09/2002 update).

Portland: Multnomah County, OR



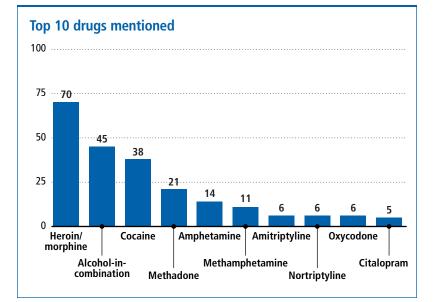
Multnomah County, OR: Deaths and population, 2001

Deaths involving drug abuse

117
110
7
845
665,810

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	87	6-17	1	White	106
Female	30	18-24	5	Black	3
		25-34	30	Hispanic	3
		35-44	45	All others	5
		45-97	36		



Drug involvement in death by sex and age of decedent

			Sex			Age		
	TOTAL	Male	Female	6-17	18-24	25-34	35-44	45-97
Alcohol involved	38%	45%	20%	-	20%	40%	40%	39%
Number of drugs involved	d							
Single-drug	22%	23%	20%	100%	20%	27%	20%	19%
Multi-drug	78%	77%	80%	—	80%	73%	80%	81%
Cause of death								
Drug-induced	94%	93%	97%	100%	100%	90%	96%	94%
Drug-related	6%	7%	3%	—	—	10%	4%	6%
Manner of death								
Suicide	9%	7%	17%		_	3%	9%	17%
Accidental/unexpected	74%	79%	60%	100%	100%	83%	78%	58%
All others	16%	14%	23%	—	—	13%	13%	25%

Drug mentions by drug category

Drug category	1997	1998	1999	2000	2001	Single-drug deaths, 2001
Alcohol-in-combination	66	62	68	49	45	
Cocaine	38	45	54	44	38	4
Heroin/morphine	98	104	125	84	70	14
Marijuana		—	—	—		—
Amphetamines	4	3	13	3	14	3
Methamphetamine	4	5	3	_	11	—
Club drugs ¹	—		—	1	—	—
Hallucinogens ²	—	—	1	—	—	—
Inhalants	—	1	—	—	—	—
Narcotic analgesics ³	8	10	19	16	31	4
Other analgesics	2		3	—	2	—
Benzodiazepines	3	7	5	1	7	—
Antidepressants	15	5	16	16	25	—
All other substances ³	7	6	16	28	21	1
Total drug deaths	127	129	162	119	117	26
Total drug mentions	245	248	323	242	264	_
Total deaths certified	931	862	872	839	845	—

Includes Ecstasy [MDMA], Ketamine, GHB-GBL, and Rohypnol. ² Includes PCP, LSD, and miscellaneous hallucinogens. ³ Not tabulated above.

St. Louis: St. Louis City, MO



St. Louis City, MO: Deaths and population, 2001

Deaths involving and abuse	
Total	67
Drug-induced	41
Drug-related	26
Total deaths certified	2,673
Population (2001)	339,211

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	52	6-17	_	White	25
Female	15	18-24	9	Black	42
		25-34	14	Hispanic	—
		35-44	20	All others	—
		45-97	24		

Top 10 drugs mentioned 50 40 34 30 28 20 10 98..... 10 6 6 6 0 Cocaine Heroin/ Diazepam Cannabis Phencyclidine morphine Alcohol-in-Drug Benzodiazepines Narcotic Diphen-NOS* analgesics NOS* hydramine combination unknown * NOS = Not otherwise specified

Drug involvement in death by sex and age of decedent Sex Age TOTAL 25-34 35-44 Male Female 6-17 18-24 45-97 Alcohol involved 42% 42% 40% ____ 22% 36% 40% 54% Number of drugs involved Single-drug 33% 33% 33% 44% 50% 40% 13% ____ Multi-drua 67% 67% 67% 56% 50% 60% 88% ____ Cause of death Drug-induced 61% 67% 60% 33% 50% 65% 75% _ 40% 67% Drug-related 39% 33% 50% 35% 25% _ Manner of death Suicide 1% 2% 11% ____ _ _ ____ Accidental/unexpected 54% 56% 47% 56% 57% 70% 38%

53%

Drug mentions by drug category

45%

42%

All others

Drug category	1997	1998	1999	2000	2001	Single-dru deaths, 2001
Alcohol-in-combination	20	15	17	19	28	_
Cocaine	50	51	47	42	34	13
Heroin/morphine	29	27	27	20	10	—
Marijuana	24	24	32	24	6	—
Amphetamines	—	—	—	—	—	—
Methamphetamine	2	2	1	1	—	—
Club drugs ¹	—	—	2	2	—	—
Hallucinogens ²	—	1	—	2	6	4
Inhalants	—	1	—	3	—	—
Narcotic analgesics ³	19	15	10	23	20	1
Other analgesics	4	9	3	2	4	—
Benzodiazepines	21	11	9	15	20	—
Antidepressants	12	4	6	7	11	2
All other substances ³	9	13	22	21	25	2
Total drug deaths	91	84	87	74	67	22
Total drug mentions	190	173	176	181	164	—
Total deaths certified	2,535	2,511	2,524	2,460	2,673	—

SOURCE: Office of Applied Studies, SAMHSA, Drug Abuse Warning Network 2001 (09/2002 update).

33%

_

43%

30%

63%

St. Louis: St. Louis County, MO



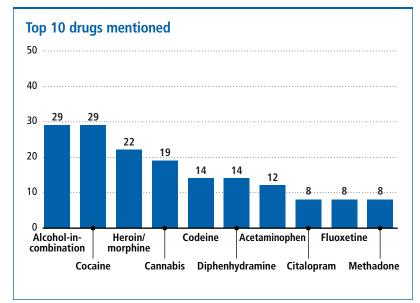
St. Louis County, MO: Deaths and population, 2001

Deaths involving drug abuse

5 5	
Total	125
Drug-induced	81
Drug-related	44
Total deaths certified	4,519
Population (2001)	1,015,417

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	82	6-17	3	White	114
Female	42	18-24	13	Black	11
		25-34	19	Hispanic	_
		35-44	41	All others	_
		45-97	49		



Sex Age TOTAL Male Female 6-17 18-24 25-34 35-44 45-97 Alcohol involved 23% 24% 19% 38% 26% 29% 14% ____ Number of drugs involved 29% Single-drug 38% 12% 67% 26% 20% 41% 8% 71% 88% Multi-drug 62% 33% 92% 74% 80% 59%

Drug involvement in death by sex and age of decedent

Cause of death								
Drug-induced	65%	57%	79%	67%	46%	53%	71%	69%
Drug-related	35%	43%	21%	33%	54%	47%	29%	31%
Manner of death								
Suicide	38%	40%	33%	67%	31%	37%	29%	45%
Accidental/unexpected	26%	28%	21%	—	62%	42%	27%	12%
All others	36%	32%	45%	33%	8%	21%	44%	43%

Drug mentions by drug category

Drug category	1997	1998	1999	2000	2001	Single-dru deaths, 2001
Alcohol-in-combination	21	27	33	29	29	_
Cocaine	12	15	15	13	29	7
Heroin/morphine	8	15	22	25	22	1
Marijuana	11	12	23	23	19	4
Amphetamines	_	1	—	2	2	—
Methamphetamine	_	3	1	1	—	—
Club drugs ¹	—	—	1		1	—
Hallucinogens ²	—	—	1	1	—	—
Inhalants	3	1	3	1	—	—
Narcotic analgesics ³	24	20	31	33	35	3
Other analgesics	18	22	25	21	20	2
Benzodiazepines	20	19	24	22	12	—
Antidepressants	11	22	24	26	49	11
All other substances ³	20	19	46	61	56	8
Total drug deaths	74	81	116	116	125	36
Total drug mentions	148	176	249	258	274	
Total deaths certified	4,279	4,280	4,420	4,427	4,519	—

¹ Includes Ecstasy [MDMA], Ketamine, GHB-GBL, and Rohypnol. ² Includes PCP, LSD, and miscellaneous hallucinogens. ³ Not tabulated above.

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Salt Lake City: Salt Lake County, UT



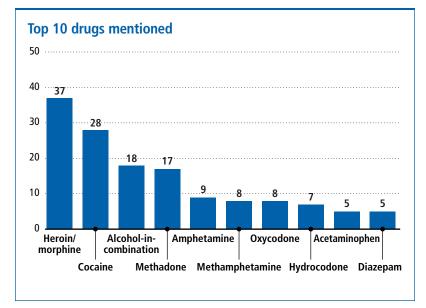
Salt Lake County, UT: Deaths and population, 2001

Deaths involving drug abuse

85
80
5
792
904,331

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	53	6-17	1	White	76
Female	29	18-24	5	Black	
		25-34	19	Hispanic	5
		35-44	26	All others	4
		45-97	32		



Drug involvement in death by sex and age of decedent Sex Age TOTAL 25-34 35-44 Male Female 6-17 18-24 45-97 Alcohol involved 21% 26% 10% ____ 5% 31% 26% _ Number of drugs involved Single-drug 33% 36% 31% 100% 60% 42% 27% 26% Multi-drua 67% 64% 69% 40% 58% 73% 74% ____ Cause of death Drug-induced 92% 94% 94% 93% 100% 80% 100% 94% Drug-related 6% 6% 7% 20% 8% 6% ____ _ Manner of death Suicide 12% 11% 14% 16% 19% 6% ____ _ Accidental/unexpected 5% 6% 3% 5% 8% 3% _ All others

83%

100%

100%

79%

73%

91%

Drug mentions by drug category

84%

83%

Drug category	1997	1998	1999	2000	2001	Single-drug deaths, 2001
Alcohol-in-combination	27	28	30	31	18	_
Cocaine	43	74	74	56	28	4
Heroin/morphine	65	79	87	75	37	12
Marijuana	2	1	1	—	1	—
Amphetamines	7	14	23	12	9	—
Methamphetamine	10	21	23	15	8	—
Club drugs ¹	—		1	2	—	—
Hallucinogens ²	—		—	1	1	1
Inhalants	—		1	—	—	—
Narcotic analgesics ³	16	13	24	30	35	11
Other analgesics	1	2	—	3	6	—
Benzodiazepines	6	5	7	12	8	—
Antidepressants	17	2	7	8	7	—
All other substances ³	10	9	7	9	18	—
Total drug deaths	95	112	138	117	85	28
Total drug mentions	204	248	285	254	176	—
Total deaths certified	717	695	731	688	792	_

SOURCE: Office of Applied Studies, SAMHSA, Drug Abuse Warning Network 2001 (09/2002 update).

San Francisco: San Francisco County, CA



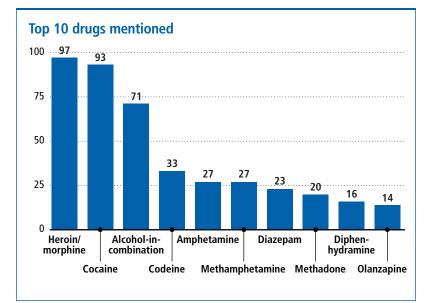
San Francisco County, CA: Deaths and population, 2001

Deaths involving drug abuse

5 5	
Total	206
Drug-induced	169
Drug-related	37
Total deaths certified	1,340
Population (2001)	770,723

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	159	6-17	1	White	120
Female	46	18-24	6	Black	41
		25-34	28	Hispanic	26
		35-44	69	All others	19
		45-97	102		



Sex Age TOTAL Male Female 6-17 18-24 25-34 35-44 45-97 Alcohol involved 34% 40% 17% 21% 54% 27% ____ ____ Number of drugs involved Single-drug 18% 18% 17% 25% 13% 18% 100% 33% 82% Multi-drug 82% 83% 67% 75% 87% 82% ____ Cause of death Drug-induced 82% 81% 87% 67% 68% 86% 85% ____ 32% Drug-related 18% 19% 13% 100% 33% 14% 15% Manner of death Suicide 14% 13% 17% 17% 14% 16% 12% _ 65% 65% Accidental/unexpected 63% 100% 67% 75% 70% 58%

20%

Drug involvement in death by sex and age of decedent

Drug mentions by drug category

22%

22%

All others

Drug category	1997	1998	1999	2000	2001	Single-dru deaths, 2001
Alcohol-in-combination	88	88	112	67	71	_
Cocaine	104	137	139	123	93	20
Heroin/morphine	123	145	166	117	97	12
Marijuana			_		1	1
Amphetamines	_	28	35	27	27	—
Methamphetamine	40	41	51	29	27	—
Club drugs ¹	4	1	5	6	5	—
Hallucinogens ²	1	1	3	—	1	—
Inhalants	_		—	1	_	—
Narcotic analgesics ³	123	150	159	128	75	2
Other analgesics	12	7	4	14	11	1
Benzodiazepines	43	46	38	39	37	—
Antidepressants	24	33	75	58	68	1
All other substances ³	88	82	90	76	99	—
Total drug deaths	227	253	287	217	206	37
Total drug mentions	650	759	877	685	612	
Total deaths certified	1,645	1,636	1,539	1,375	1,340	—

¹ Includes Ecstasy [MDMA], Ketamine, GHB-GBL, and Rohypnol. ² Includes PCP, LSD, and miscellaneous hallucinogens. ³ Not tabulated above.

SOURCE: Office of Applied Studies, SAMHSA, Drug Abuse Warning Network 2001 (09/2002 update).

17%

_

11%

14%

30%

Seattle: King County, WA



Cocaine

King County, WA: Deaths and population, 2001

Deaths involving drug abuse

Total	146
Drug-induced	146
Drug-related	_
Total deaths certified	1,354
Population (2001)	1,741,785

7

Doxepin

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	95	6-17	3	White	126
Female	51	18-24	8	Black	12
		25-34	30	Hispanic	3
		35-44	50	All others	5
		45-97	55	•••••	

Top 10 drugs mentioned 100 75 63 50 22 32 24 25 16 12 9 9 8 0 Alcohol-in-Citalopram Diphen-Heroin/ Oxycodone combination morphine hydramine

Methadone

Trazodone

Diazepam

Drug involvement in death by sex and age of decedent Sex Age TOTAL 6-17 25-34 35-44 Male Female 18-24 45-97 Alcohol involved 22% 27% 12% _ 13% 23% 32% 15% Number of drugs involved Single-drug 31% 32% 29% 100% 63% 37% 20% 29% Multi-drua 69% 68% 71% 38% 63% 80% 71% ____ Cause of death Drug-induced 100% 100% 100% 100% 100% 100% 100% 100% Drug-related _ _ _ ____ _ _ ____ ____ Manner of death Suicide 13% 11% 18% 25% 7% 8% 20% ____ Accidental/unexpected 74% 82% 59% 67% 63% 83% 86% 60% All others 13% 33% 7% 24% 13% 10% 6% 20%

Drug mentions by drug category

Drug category	1997	1998	1999	2000	2001	Single-drug deaths, 2001
Alcohol-in-combination	74	95	61	71	32	_
Cocaine	65	68	76	88	44	5
Heroin/morphine	110	142	117	102	63	18
Marijuana	—	1	—	1	—	—
Amphetamines	2	—	1	1	—	—
Methamphetamine	3	3	28	12	6	2
Club drugs ¹	—	—	1	2	3	2
Hallucinogens ²	—	—	—	—	—	—
Inhalants	—	—	—	1	—	—
Narcotic analgesics ³	31	49	21	53	57	9
Other analgesics	20	11	13	21	11	3
Benzodiazepines	26	37	15	20	20	—
Antidepressants	40	63	48	59	66	4
All other substances ³	34	50	36	34	50	2
Total drug deaths	169	215	199	215	146	45
Total drug mentions	405	519	417	465	352	_
Total deaths certified	1,306	1,317	1,267	1,316	1,354	—

SOURCE: Office of Applied Studies, SAMHSA, Drug Abuse Warning Network 2001 (09/2002 update).

Washington, DC: District of Columbia



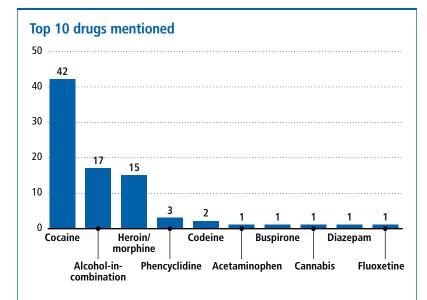
District of Columbia: Deaths and population, 2001

Deaths involving drug abuse

Population (2001)	571,822
Total deaths certified	1,582
Drug-related	8
Drug-induced	45
Total	53

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	40	6-17	—	White	3
Female	12	18-24	1	Black	50
		25-34	2	Hispanic	
		35-44	25	All others	
		45-97	25		



Drug involvement in death by sex and age of decedent Sex Age TOTAL Mala Famala 6.17 18.24 25.24

	JEA		Aye					
	TOTAL	Male	Female	6-17	18-24	25-34	35-44	45-97
Alcohol involved	32%	30%	42%	—	_	50%	40%	24%
Number of drugs involved	ł							
Single-drug	45%	45%	42%	_	_	50%	36%	56%
Multi-drug	55%	55%	58%	—	100%	50%	64%	44%
Cause of death								
Drug-induced	85%	80%	100%	_	_	50%	84%	92%
Drug-related	15%	20%	—	—	100%	50%	16%	8%
Manner of death								
Suicide	8%	10%	_	_	_	50%	4%	8%
Accidental/unexpected	77%	73%	92%	—	100%	50%	68%	88%
All others	15%	18%	8%	—	—	—	28%	4%

Drug mentions by drug category

Drug category	1997	1998	1999	2000	2001	Single-dru deaths, 2001
Alcohol-in-combination	29	44	37	26	17	_
Cocaine	33	63	64	54	42	18
Heroin/morphine	41	53	41	36	15	4
Marijuana	_			1	1	—
Amphetamines	—	—	_	1		—
Methamphetamine	—	1	_	1	_	_
Club drugs ¹	—	—	_	—	_	_
Hallucinogens ²	1	—	2	1	3	1
Inhalants	_	_	_		_	_
Narcotic analgesics ³	6	22	15	20	6	_
Other analgesics	2	3	3	2	1	_
Benzodiazepines	13	13	11	10	1	1
Antidepressants	4	14	11	4	1	_
All other substances ³	7	30	18	10	1	_
Total drug deaths	79	145	121	100	53	24
Total drug mentions	136	243	202	166	88	_
Total deaths certified	1,414	1,607	1,763	1,751	1,582	—

Washington, DC: Montgomery County, MD



Montgomery County, MD: Deaths and population, 2001

Deaths involving drug abuse

Total	32
Drug-induced	27
Drug-related	5
Total deaths certified	400
Population (2001)	891,347

4

Nortriptyline | Propoxyphene

Acetaminophen Methadone Oxycodone Amitriptyline

4

3

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	24	6-17	_	White	23
Female	8	18-24	5	Black	7
		25-34	5	Hispanic	2
		35-44	10	All others	—
		45-97	11		

Top 10 drugs mentioned 50 40 30 20 12 11 9 10 5 4 4 4

Heroin/

morphine

Cocaine

Diazepam

Drug involvement in death by sex and age of decedent

			Sex			Age		
	TOTAL	Male	Female	6-17	18-24	25-34	35-44	45-97
Alcohol involved	38%	42%	25%	_	20%	80%	20%	42%
Number of drugs involve	d							
Single-drug	16%	17%	13%	_	20%	20%	20%	8%
Multi-drug	84%	83%	88%	—	80%	80%	80%	92%
Cause of death								
Drug-induced	84%	79%	100%	_	100%	60%	100%	75%
Drug-related	16%	21%	—	—	—	40%	—	25%
Manner of death								
Suicide	19%	13%	38%	_	20%	_	_	42%
Accidental/unexpected	13%	17%	—	—	—	40%	—	17%
All others	69%	71%	63%	—	80%	60%	100%	42%

Drug mentions by drug category

Drug category	1997	1998	1999	2000	2001	Single-dru deaths, 2001
Alcohol-in-combination	14	8	8	10	12	_
Cocaine	12	5	9	6	11	1
Heroin/morphine	13	9	13	11	9	2
Marijuana	—		—	2	—	—
Amphetamines	1		—	—	—	—
Methamphetamine	1		2	—	—	—
Club drugs ¹	—		—	—	—	—
Hallucinogens ²	—		—	1	—	—
Inhalants	—		—	—	—	—
Narcotic analgesics ³	13	9	11	18	18	2
Other analgesics	9	3	9	9	7	—
Benzodiazepines	7	3	4	5	6	—
Antidepressants	16	8	12	18	20	—
All other substances ³	32	12	27	21	23	—
Total drug deaths	32	18	26	34	32	5
Total drug mentions	118	57	95	101	106	_
Total deaths certified	524	473	500	434	400	—

SOURCE: Office of Applied Studies, SAMHSA, Drug Abuse Warning Network 2001 (09/2002 update).

0 Alcohol-in-

combination

Washington, DC: Prince George's County, MD



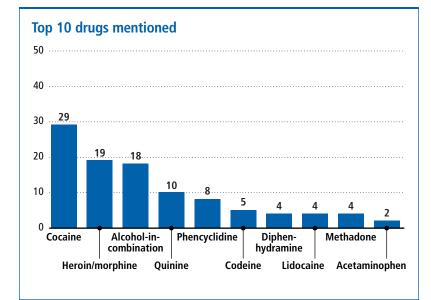
Prince George's County, MD: Deaths and population, 2001

Deaths involving drug abuse

Total	57
Drug-induced	39
Drug-related	18
Total deaths certified	1.033
Population (2001)	816,791

Drug abuse deaths by sex, age and race/ethnicity

Sex		Age		Race/Ethnicity	
Male	50	6-17	_	White	17
Female	7	18-24	7	Black	39
		25-34	8	Hispanic	1
		35-44	25	All others	—
		45-97	17		



Drug involvement in death by sex and age of decedent

		Sex		Age				
	TOTAL	Male	Female	6-17	18-24	25-34	35-44	45-97
Alcohol involved	32%	34%	14%	_	29%	63%	24%	29%
Number of drugs involved	ł							
Single-drug	28%	30%	14%		43%	25%	24%	29%
Multi-drug	72%	70%	86%	—	57%	75%	76%	71%
Cause of death								
Drug-induced	68%	66%	86%		29%	50%	72%	88%
Drug-related	32%	34%	14%	—	71%	50%	28%	12%
Manner of death								
Suicide	7%	4%	29%		29%	_	4%	6%
Accidental/unexpected	11%	12%	—		14%	13%	8%	12%
All others	82%	84%	71%	—	57%	88%	88%	82%

Drug mentions by drug category

Drug category	1997	1998	1999	2000	2001	Single-dru deaths, 2001
Alcohol-in-combination	20	28	24	28	18	
Cocaine	24	39	15	33	29	9
Heroin/morphine	32	31	23	23	19	2
Marijuana			_	—		—
Amphetamines				—	_	—
Methamphetamine			1	—	_	—
Club drugs ¹	—	—		1	1	—
Hallucinogens ²	2	3	2	7	8	4
Inhalants	_	—		—	_	—
Narcotic analgesics ³	16	15	8	13	13	—
Other analgesics	6	4	5	6	4	—
Benzodiazepines	9	3		—	3	—
Antidepressants	16	8	10	8	8	—
All other substances ³	45	47	31	28	27	1
Total drug deaths	54	59	42	54	57	16
Total drug mentions	170	178	119	147	130	_
Total deaths certified	982	1,231	1,265	890	1,033	—

Includes Ecstasy [MDMA], Ketamine, GHB-GBL, and Rohypnol. ² Includes PCP, LSD, and miscellaneous hallucinogens. ³ Not tabulated above.

APPENDIX A: DAWN MEDICAL EXAMINER REPORT FORM

	XXXX Sample I)			NCE	ави: АВ	I BE ANI USE		HEALT AL HE RNIN	ALTH S G NE	VICE ERVIO	CES A	ADMIN K (D	IISTR		N	(Sai	mple	OMB	M APPR(NO. 093 es: 11/30 Only	80-007 0/2002
PRC	VIDER IBER									ROSS F													
		Month	D	ay		Ye	ear			-			DRU	JG/SU	JBST/	ANCE	INFO	RMAT	ION				
DEA	ТН								11. /	ALCOHO	DL INV	OLVED	(Marl	k [X] o	ne re	spons	e)						
	INFO	RMATIO		I DEC	EAS	ED			1.	I 🗆 Yes	i (If YE	S, pleas	se note	e conc	centra	tion)	2 🗆 N	0	
. AGE 5. SEX				12. I	LIST EA					NAME		NE O	F THE	SPAC	ES BE	LOW							
	(Must be 06	6-97 yrs.)			2		nale				SAM	HSA US	E ONL	Y									
a. ETHNICITY (mark [x] one response) 1 ☐ Hispanic or Latino 2 ☐ Not Hispanic or Latino 3 ☐ Unknown			6b	6b. RACE (mark [x] for all that apply) White Black or African American American Indian or Alaska Native Asian Native Hawaiian or Other Pacific Islander																			
				Π (Jnkno			luei				_											
DEC	EDENT'S	HOME Z	C C	ODE					6	For occt	non clr	abol cut	etanar	lictor	about	mort	IV1			ach de	aitor !	alow	
	Othor								-	For each non-alcohol substance listed above, mark [X] one response in each data ited 13. ROUTE OF ADMINISTRATION SUBSTANC													
(Otherwise mark [X] one response) 1 □ Unknown 2 □ No Fixed Address				-						01	1	2	3	4	5	6							
. CAUSE OF DEATH (See reverse side) A. Was this a DRUG-INDUCED CASE (e.g., the				Oral Injection						01													
 drug[s] directly caused the death as documented in Country records such as the death certificate and/or autopsy findings)? 1 Yes No 								03															
				Smoked (Includes Freebase) 04																			
B.1 If not drug induced, please select one of the following DRUG-RELATED CASE categories:					Sniffed, Snorted 05																		
2 Drug Abuse in Combination with				Unknown 06											<u> </u>								
 Phyšiological Condition 3 Drug Abuse in Combination with External 						Other							07										
	Phys	ical Ever	nt	Πρίπαι		WIUTI	Extern	ai	14.	_AB TES		D TO I											
	4 □ Drug (Whe	Abuse-Cether abu								DR	UG #		FIN	DINGS	6 (List i	test me	ethods,	specin	ien, and	d finding	gs for ead	ch drug	liste
B.2	Please ma case in B. in County that drug not the pri	records abuse co	(e.g.	, death uted to	ı cerl	titica	te stat	es															
	Conf Please ma case in B. presence exceeding document abuse tha death.	ark [X] pr 1 is base of illicit s therape ation of p t may be	ed on ubsta utic l past o rela	ned if ances evels) or pres ted to	the over to or le Ol sent s the c	drug gal d R subs ause	-relate logy (e lrugs on oth tance e of the	d e.g., er e															
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D. FAC	5 🗌 Nati	PORTIN	G DA	WN C	ASE				┨──				-										
DET	ERMINATI 1	ON <i>(Man</i> th Certifi icological	k [X] cate	for all i	that a)		\vdash														
	3 □ Auto 4 □ Insp 5 □ Exte	ection of ernal Phy	vsical	Signs			andr			CODED (If case in			user wit	th HIV+/	AIDS,	please	write "H	HV+" or	"AIDS"	in the fir:	st four spa	aces bel	'ow.)
	6 🔲 Stat	ement of	H0S	pital/F	amily	y/⊢rie	rias		1							1							

APPENDIX B: GLOSSARY OF TERMS

This glossary defines terms used by the Drug Abuse Warning Network (DAWN) in data collection activities, analyses, and publications. DAWN collects data and publishes findings separately for emergency departments (EDs) and death investigation jurisdictions. As a result, there are a number of terms that are unique to each component of DAWN.

This appendix is divided into 3 sections. The first section contains terms common to both the ED component and the mortality data component of DAWN. The second section focuses on terms specific to the DAWN ED system, while the third section focuses on terms specific to the mortality data system.

Definitions of Terms Common to DAWN's ED and Mortality Components

Drug abuse: The nonmedical use of a substance for any of the following reasons: psychic effect, dependence, or suicide attempt/gesture. In DAWN, nonmedical use means:

- The use of prescription drugs in a manner inconsistent with accepted medical practice;
- The use of over-the-counter drugs contrary to approved labeling; or
- The use of any substance (e.g., heroin, marijuana, peyote, glue, aerosols) for psychic effect, dependence, or suicide.
- **Drug category:** A generic grouping of substances reported to DAWN, based on the classification of generic drugs by Multum Information Services. Multum Information Services is a subsidiary of the Cerner Corporation and a developer of clinical drug information systems and a drug knowledge base. More information is available at www.multum.com. The DAWN system has accumulated a vocabulary of thousands of substance names that have been mentioned in incidents of abuse. This vocabulary is updated monthly by the inclusion of new abuse substances and, through receipt of identifying information, the reclassification of drugs. Occasionally, this reclassification may result in a drug being shifted to a different drug grouping. The DAWN drug groupings are periodically reviewed in order to reflect the most recent changes in pharmaceutical classifications and drug legislation. Occasional changes in drug classifications. These classifications may involve street names and brand names, which are sometimes used to identify a substance and its generic drug group. Individual drugs comprising the most commonly reported drug categories can be found in Tables 2.3 to 2.7 of Emergency Department Trends From DAWN.

Additional clarification is provided for the following drug categories:

- Alcohol-in-combination DAWN does not gather data on alcohol used alone, only alcohol used concomitantly with another abused substance. Therefore, all alcohol mentions are combination mentions.
- All other substances not tabulated above (NTA) This category contains any substance reported to DAWN that could not be classified in other categories and has too few mentions to warrant being reported

independently in DAWN tables. This category also includes certain terms that cannot be assigned reliably to any new category such as: (1) ambiguous, nonspecific terms that could fall into any of several categories (e.g., "AIDS medicine" could be an anti-infective, an anticonvulsant, or any number of other drugs); (2) undocumented, nonspecific terms (e.g., "thought organizer"); and (3) street terms for illicit substances that could not be linked reliably to a particular illicit substance (e.g., "T," "butterflies").

Amphetamines – This class of substances has been extracted from the category of central nervous system (CNS) stimulants because of its importance as a major substance of abuse. For purposes of classification, "amphetamines" (plural) includes a class of compounds derived from or related to the drug amphetamine. Although some "designer" drugs fall into the class of amphetamines, we choose to report some of them individually as major substances of abuse (e.g., methamphetamine). This category does not include other CNS stimulants, such as caffeine or methylphenidate.

Club drugs – During the 1990s, use of certain illicit drugs was linked to "raves" and dance clubs. These substances are commonly referred to as "club drugs." When used in DAWN, the term club drugs includes Ketamine, flunitrazepam (Rohypnol), gamma-hydroxy butyrate (GHB, or its precursor, gamma butyrolactone [GBL]), and methylenedioxymethamphetamine (MDMA or Ecstasy). Although commonly used in the rave scene, methamphetamine and hallucinogens are classified separately from club drugs in DAWN. *Drug unknown* – "Drug unknown" may be recorded when drug abuse was known or suspected to have been involved, but the specific substance could not be determined. This includes 2 types of cases: those in which the drug was reported to DAWN as "unknown" and those in which drugs were reported to DAWN as

"polysubstances." For the purposes of DAWN, polysubstance refers to the abuse of more than one substance when the individual substances were not identified by the source record. Because DAWN cases are identified through retrospective medical chart review, there will always be cases in which the drug abuse was known but the particular substance was unknown or unknowable.

Heroin and Heroin/morphine – This is the only drug classified differently in the ED and mortality components of DAWN. In the ED publications, heroin is classified as a major substance of abuse, separate from morphine, which is classified as a narcotic analgesic under CNS agents. In the mortality data publications, heroin and morphine are classified together in a single category. When heroin is ingested, it is metabolized to morphine, so that the toxicology testing commonly used in death investigations often does not distinguish between the 2. Therefore, a mention of either substance is recorded as heroin/morphine. A case mentioning both heroin and morphine will be "de-duplicated" and counted as a single heroin/morphine mention.

Illicit combinations – This category includes compounds composed of 2 or more major substances of abuse that are mixed and taken together. For example, "speedball," which usually refers to the combination of heroin and cocaine taken at once, would be classified as an illicit combination, whereas separate mentions of heroin and cocaine would be classified separately in the categories heroin and cocaine. Compounds consisting of a major substance of abuse and another substance are classified in the category of the major substance (e.g., heroin with scopolamine is classified as heroin).

Inhalants – This category includes anesthetic gases and psychoactive nonpharmaceutical substances for which the documented route of administration was inhaled, sniffed, or snorted. Psychoactive nonpharmaceuticals fall into one of the following 3 categories: (1) volatile solvents-adhesives (model airplane glue, rubber cement, household glue), aerosols (spray paint, hairspray, air freshener, deodorant, fabric protector), solvents and gases (nail polish remover, paint thinner, correction fluid and thinner, toxic markers, pure toluene, cigar lighter fluid, gasoline, carburetor cleaner, octane booster), cleaning agents (dry cleaning fluid, spot remover, degreaser), food products (vegetable cooking spray, dessert topping spray such as whipped cream, whippets), and gases (butane, propane, helium); (2) nitrites-amyl nitrites ("poppers," "snappers") and butyl nitrites ("rush," "locker

room," "bolt," "climax," "video head cleaner"); or (3) chlorofluorohydrocarbons (freons). Anesthetic gases (e.g., nitrous oxide, ether, chloroform) are presumed to have been inhaled.

- Major Substances of Abuse We use this term to refer to the most commonly abused drugs (e.g., alcohol-incombination and cocaine) and those drugs that are typically referred to as "illicit."
- Other Substances of Abuse We use this term to refer to pharmaceutical agents not included in the Major Substances of Abuse.
- Drug mention: This refers to a substance that was recorded ("mentioned") in a DAWN case report. In addition to alcohol-in-combination, up to 4 substances ("mentions") can be reported for each ED episode, and up to 6 substances can be reported for each drug abuse death. Therefore, the total number of drug mentions exceeds the total number of ED visits or deaths. Even when only one drug is mentioned, it should not be assumed that the substance was the sole and direct cause of the episode or death; allowances should be made for reportable drugs not mentioned or other contributory factors. (See also Single-drug episode/ death.)
- Metropolitan area: An area comprising a relatively large core city or cities and the adjacent geographic areas. Conceptually, these areas are integrated economic and social units with a large population nucleus. The current DAWN ED sample, which was redesigned in the 1980s, is based on the definitions of Metropolitan Statistical Areas (MSAs) and Primary Metropolitan Statistical Area (PMSAs) issued by the Office of Management and Budget (OMB) in 1983, with a few exceptions. Metropolitan areas represented in the DAWN mortality data system are consistent with those represented in the DAWN ED system, also with a few exceptions. Users of DAWN should note that the ED component provides estimates for each of the 21 metropolitan areas. However, in the mortality data component, only raw counts are provided, and in many instances less than 100 percent of the MSA is represented in those counts.
- **Not otherwise specified (NOS)**: Catch-all category for substances that are not specifically named in the listing. Terms are classified into an NOS category only when assignment to a more specific category is not possible based on information in the source documentation (ED patient charts and death investigation case files).
- Not tabulated above (NTA): Designation used when categories are not presented in complete detail; smaller units are combined in the NTA category.
- **Race/ethnicity:** Beginning in January 2000, the race and ethnicity categories collected on DAWN case report forms changed to match a change in the standard protocol issued by the OMB in 1997.¹ The new protocol permits separate reporting of race and Hispanic ethnicity; the ability to capture more than one race for an individual; modifications in nomenclature (e.g., "Black" was changed to "Black or African American"); division of certain categories ("Asian or Pacific Islander" was split into 2 categories, "Asian" and "Native Hawaiian or Other Pacific Islander"); and elimination of the "Other" category.

¹ See Office of Management and Budget, *Revisions to the Standards for the Classification of Federal Data on Race and Ethnicity, Federal Register,* 62 FR 58782, October 30, 1997.

The race/ethnicity categories on the DAWN data collection forms are as follows:

Race

White – A person having origins in any of the original peoples of Europe, the Middle East, or North Africa. *Black or African American* – A person having origins in any of the black racial groups of Africa. *American Indian or Alaska Native* – A person having origins in any of the original peoples of North and South America (including Central America), and who maintains tribal affiliation or community attachment. *Asian* – A person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent including, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam.

Native Hawaiian or Other Pacific Islander – A person having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific Islands.

Unknown – Used when documentation of race is not available from source records.

Ethnicity

Hispanic or Latino – A person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin, regardless of race.

Not Hispanic or Latino – Ethnicity does not meet the definition of Hispanic or Latino. *Unknown* – Used when documentation of ethnicity is not available from source records.

Despite the increased detail allowed by the new categories, the actual race/ethnicity data reported to DAWN changed very little because race and ethnicity are often not documented with this level of specificity in patient/decedent records. As a result, we have retained the classification used previously to tabulate DAWN data. The one exception is that we now collapse the less commonly used categories into a category termed "Not tabulated above (NTA)" instead of "Other." Categories used to tabulate race and ethnicity data in the ED publications are:

White – Anyone meeting the definition of white (above). Those who are identified as white and Hispanic are classified as Hispanic.

Black – Anyone meeting the definition of black or African American (above). Those who are identified as black or African American and Hispanic are classified as Hispanic.

Hispanic – Anyone whose ethnicity is Hispanic or Latino is placed in the category Hispanic, regardless of race. *Race/ethnicity NTA* – This includes those categories that are too small to report independently including: 2 or more races, American Indian or Alaska Native, Asian, Native Hawaiian or Other Pacific Islander. *Unknown* – Race and ethnicity are unknown. Those who are identified only as Hispanic are classified as

Hispanic.

In *Mortality Data From DAWN, r*ace/ethnicity data are tabulated as White, Black, Hispanic, and All others, where "All others" includes other reported races and ethnicities as well as unknown or missing data.

Route of drug administration: DAWN reporters are asked to record the method by which the substance was taken into the drug abuser's body according to the following categories:

- Oral Substance was ingested through the mouth (swallowed).
- Injection Substance entered the body through a vein (intravenously), into the muscle (intramuscularly), or under the skin (subcutaneously).
- Inhaled Gases or fumes of a substance were taken into the body by inhaling through the nose or mouth into the lungs (e.g., inhaling the fumes of glue, aerosols, paints, gasoline).
- Smoked (includes freebase) Substance was consumed by smoking a cigarette, pipe, or similar device.
- Sniffed/snorted Substance, acquired in a powder or crystalline form, was forcefully inhaled through the nose.
- Other This category is used when the route of administration of the substance cannot logically be included as any of the above.

Readers should note that this information is often not documented in patient/decedent files and is therefore missing in DAWN tabulations. Caution should therefore be exercised in interpreting this information.

Single-drug episode/death: A single-drug episode or death is that in which only one drug was involved. Because multiple substances may be recorded for each DAWN case (see **Drug mention**), readers should exercise caution in interpreting the relationship between a given drug and the number of associated ED visits or deaths. For example, if records for a given patient "mentioned" marijuana, this does not mean that marijuana was the only drug involved in the ED visit or that the marijuana caused the ED visit. One should always consider whether and how many other drugs were used in combination, but even then attributing a causal relationship between the visit and a particular drug may not be possible. Additionally, because alcohol is only documented if used in combination with another drug, DAWN cannot provide single-drug episode/death totals for alcohol.

Definitions of Terms for the DAWN ED Component

- **Coterminous U.S.:** The contiguous 48 States and Washington, DC; excludes Alaska and Hawaii. National estimates from DAWN refer only to the coterminous U.S.
- **Disposition of ED patient:** Suggestions or recommendations made or actions taken by the hospital as they relate to the patient's presenting problem:
 - Treated and released or referred The patient was given appropriate ED treatment and was released or, after appropriate ED treatment, the hospital referred the patient to another agency or to a private physician for additional services.
 - Admitted to hospital The patient was admitted as an inpatient to a hospital.
 - *Left against medical advice* The patient left the treatment setting without a physician's approval.
 - *Died* The patient expired.
- **Drug abuse episode**: A reported ED visit that involved drug abuse. Episodes involving patients under the age of 6 or over the age of 97 are not reported to the DAWN system. The number of ED patients in DAWN is not synonymous with the number of patients involved. One patient may make repeated visits to an ED or to several EDs, thus producing a number of episodes. It is impossible to determine the number of unique patients involved in the reported ED episodes because no patient identifiers are collected.

- **Drug concomitance:** This term refers to whether a drug abuse episode involved a single drug (one mention) or multiple drugs (multiple mentions).
- **Drug use motive:** DAWN classifies ED drug abuse episodes according to one or more of the following reasons for taking a substance(s):
 - Psychic effects A conscious action to use drugs to improve or enhance any physical, emotional, or social situation or condition. Two categories of psychic effect are:
 - Use of drugs for experimentation or to enhance a social situation (e.g., curiosity, peer pressure, "just wanted to know what it felt like," "wanted to have fun," "to get high," "for kicks," "to party"); and
 - Use of drugs to improve or enhance any mental, emotional, or physical state (e.g., depression, anxiety, to relieve headache, reduce pain, stay awake, lose weight, relax, help study, get to sleep). Referred to in DAWN as "other psychic effects."
 - Dependence A physiological or psychological condition characterized by a compulsion to take the drug on a continuous or periodic basis in order to experience its effects or to avoid the discomfort of its absence (e.g., had to take, had to have, needed a fix).
 - Suicide attempt or gesture Successful or unsuccessful action(s) taken for the purpose of self destruction or to gain attention.
 - *Other reason* Used when the reason for taking the substance cannot be classified into the categories above.
- **Estimate**: A statistical estimate is the value of a parameter (such as the number of drug-related ED episodes) for the universe that is derived by applying sampling weights to data from a sample. DAWN produces representative statistical estimates for 21 metropolitan areas based on data from a sample of EDs in each of the 21 areas. An estimate for the coterminous U.S. is produced by summing estimates for the 21 metropolitan areas and an estimate for the National Panel.
- **Form in which drug was acquired:** The form in which the substance was received by the user/abuser, not the form in which the substance was consumed. Categories are: tablet/capsule/pill, aerosol, liquid, powder/crystal, paper, pieces/chunks, injectable liquid, cigarette, plant material, unknown, and other. Readers should note that this information is often not documented in ED records and is therefore missing in DAWN tabulations. Caution should therefore be exercised in interpreting this information.
- **Hospital emergency department (ED):** Only hospitals that meet eligibility criteria for DAWN are recruited to participate. To be eligible, hospitals must be non-Federal, short-stay, general medical and surgical facilities with EDs that are open 24 hours a day, 7 days a week, and located in the coterminous U.S. Specialty hospitals; hospital units of institutions; long-term care facilities; pediatric hospitals; hospitals operating part-time EDs; hospitals in Alaska and Hawaii; and hospitals operated by the Veterans Health Administration and the Indian Health Service are excluded.
- National Panel: This term is used to denote 2 concepts relative to DAWN ED data: (1) The universe of eligible hospitals outside the 21 DAWN metropolitan areas but within the coterminous U.S. and (2) the sample of hospitals in DAWN that were selected from this universe. The National Panel sample is weighted to produce estimates for the National Panel universe. (See also **Metropolitan area**.)

p-value: A measure of the probability (p) that the difference between 2 estimates could have occurred by chance, if the estimates being compared were really the same. The larger the p-value, the more likely the difference could have occurred by chance. For example, if the difference between 2 DAWN estimates has a p-value of 0.01, that means that there is a 1 percent probability that the difference observed could be due to chance alone.

Population: See Universe.

- Precision: The extent to which an estimate agrees with its mean value in repeated sampling. The precision of an estimate is measured inversely by its standard error (SE) or relative standard error (RSE). In DAWN publications, estimates with RSEs of 50 percent or higher are regarded as too imprecise to be published. ED table cells where such estimates would have appeared contain the symbol "..." (3 dots). (See also **Relative standard error**.)
- **Rank:** A rank indicates the relative frequency of a measure, such as mentions for a particular drug category. For example, a drug category ranked second indicates that it accounted for the second highest number of mentions among all drug categories. When 2 or more drugs receive equal numbers of mentions, they are assigned the same rank. A difference in rank should be considered only as indicative of a difference in frequency among drugs reported to DAWN, regardless of the size of the difference. Such differences are not necessarily meaningful or statistically significant.

Reason for present ED contact: The reason for the patient's visit to the ED, based on documentation provided in the medical record. Categories are:

- Overdose/toxic ingestion Either intentional or accidental (e.g., effects of suicide attempt, coma). Anyone
 whose reason for contact is overdose is placed in this category, regardless of other reasons.
- Unexpected reaction The drug's effect was different than anticipated, thus causing concern (e.g., bad trip, panic, hallucinations).
- Withdrawal Symptoms which occur when a patient stops taking a substance upon which he or she is physiologically dependent and suffers physical symptoms, including abdominal pain, cold sweat, hyperactivity, and tremors that require treatment.
- Chronic effects Secondary conditions resulting from habitual use or dependence, including malnutrition, tetanus, blood poisoning, and so forth.
- Seeking detoxification Patients with identified problems with chronic substance abuse who seek admission to a detoxification program and receive treatment from ED staff. This category was added to the data collection form in 1987. Some hospitals require patients to be processed in the ED prior to admission for detoxification. Caution should therefore be exercised in interpretation of this category and the remaining information.
- Accident/injury Injuries resulting from accidents that were caused by or related to drug abuse. This category
 was added to the data collection form in 1987.
- *Other* Reasons which cannot be classified into one of the aforementioned categories.

Reason for taking substance: See Drug use motive.

- Relative standard error (RSE): A measure of an estimate's relative precision. The RSE of an estimate is equal to the estimate's standard error (SE) divided by the estimate itself. For example, an estimate of 2,000 cocaine mentions with an SE of 200 mentions has an RSE of 10 percent. The larger the RSE, the less precise the estimate. Estimates with an RSE of 50 percent or more are not published by DAWN. (See also Precision and Standard error.)
- **Sampling:** Sampling is the process of selecting a proper subset of elements from the full population so that the subset can be used to make inference to the population as a whole. A probability sample is one in which each element has a known and positive chance (probability) of selection. A simple random sample is one in which each member has the same chance of selection. In DAWN, a sample of hospitals is selected in order to make inference to all hospitals; DAWN uses simple random sampling within strata.
- **Sampling frame:** A list of units from which the ED sample is drawn. All members of the sampling frame have a probability of being selected. A sampling frame is constructed such that there is no duplication and each unit is identifiable. Ideally, the sampling frame and the universe are the same. The sampling frame for the DAWN hospital ED sample is derived from the American Hospital Association (AHA) Annual Survey of Hospitals.
- Sampling unit: A member of a sample selected from a sampling frame. For the DAWN sample, the units are hospitals, and data are collected for all drug-related ED episodes at the responding hospitals selected for the sample.

Sampling weights: Numeric coefficients used to derive population estimates from a sample.

Significance level: The p-value cut-off point that is used to determine whether the difference between two estimates is statistically significant. By convention in most public health research, a difference is considered statistically significant if the p-value is less than 0.05; in other words, if there is less than a 5 percent probability that the difference between the estimates is due to chance. In DAWN, only results with a p-value less than 0.05 are considered statistically significant.

Source of substance: The immediate source of the substance that the patient abused is coded as follows:

- Patient's own legal prescription This is coded only when the abuser was legally prescribed the drug of abuse. If one patient obtains a drug by legal prescription and sells it to another who abuses it, the source to the abuser is marked "street buy." If the patient for whom the prescription was issued gives the drug to another patient who abuses it, the source to the abuse is "other unauthorized procurement."
- *Streebuy* The drug abuser purchased a drug and/or prescription from a source other than legitimate channels.
- Other unauthorized procurement The drug was acquired in a manner not consistent with accepted medical care but was not bought on the street. This category includes drugs purchased using forged prescriptions, stolen, or received as a gift.
- Other Used when the source of the substance cannot logically be included as any of the above. This category includes all over-the-counter medications.
- Unknown Reported when information on source was unavailable.

Readers should note that this information is often not documented in ED records and is therefore missing in DAWN tabulations. Caution should therefore be exercised in interpreting this information.

- **Standard error (SE):** A measure of the sampling variability or precision of an estimate. The SE of an estimate is expressed in the same units as the estimate itself. For example, an estimate of 10,000 cocaine mentions with an SE of 500 indicates that the SE is 500 mentions.
- Strata (plural), stratum (singular): Subgroups of a population within which separate ED samples are drawn. Stratification is used to increase the precision of estimates for a given sample size, or, conversely, to reduce the sample size required to achieve the desired level of precision. The DAWN ED sample is stratified into 21 metropolitan area cells plus an additional cell for the National Panel. Then, within these cells strata are defined according to the annual number of ED visits, whether the hospital is located inside or outside the central city of the metropolitan area, and by the presence or absence of an organized outpatient department, alcohol/chemical dependence inpatient unit, or both. The strata are as follows:

		Location within	Outpatient department or alcohol/chemical dependence			
Stratum	Annual ED visits	metropolitan area	inpatient unit			
In the 21 DAWN	I metropolitan areas:					
0	>80,000	Not applicable	Not applicable			
1	<80,000	Central city	Both			
2	<80,000	Central city	One only			
3	<80,000	Central city	Neither			
4	<80,000	Outside Central city	Both			
5	<80,000	Outside Central city	One only			
6	<80,000	Outside Central city	Neither			
In the National	Panel:					
0	>80,000	Not applicable	Not applicable			
7	<80,000	Not applicable	Both			
8	<80,000	Not applicable	One only			
9	<80,000	Not applicable	Neither			

Note: Stratum "0" is defined for each of the 21 metropolitan areas and the National Panel cells. See *Drug Abuse Warning Network Sample Design and Estimation Procedures: Technical Report,* November 1997.

Statistically significant: When comparing 2 estimates, it is important to distinguish the differences that are likely to be real from those that are likely due to chance (sampling error and random fluctuation). A "statistically significant" difference between two estimates is one that is unlikely to have occurred by chance. Statistical significance is determined by comparing the p-value for the difference to a preset significance level. (See also p-value and Significance level.) In DAWN, a statistically significant difference has a p-value of less than 0.05, which means that there is less than a 5 percent probability that the difference could have occurred by chance.

Universe: The entire set of units for which generalizations are drawn. The universe for the DAWN ED sample is all non-Federal, short-stay, general medical and surgical hospitals in the coterminous U.S. with EDs open 24 hours a day, 7 days a week. (See also **Coterminous U.S.**).

Definitions of Terms for the DAWN Mortality Component

- **Cause of death:** Cases are reportable to DAWN if the death investigation concludes that the death was either directly or indirectly caused by drug abuse. If a death was directly caused by drug abuse (e.g., a drug overdose), DAWN refers to the death as drug-induced. If drug abuse was a contributing factor in the death, but not the immediate or sole cause, then DAWN refers to the death as drug-related. It is important to note that DAWN data include both types of deaths. It is also important to note that a drug-induced death may involve more than a single drug. (See **Single-drug episode**.)
- **Certified death:** Any case accepted and reviewed by a medical examiner or coroner, who uses information from the death investigation to complete the death certificate.
- **Consistent panel:** DAWN does not impute missing data for jurisdictions that have not reported for all or part of a given year. Therefore, tables and charts showing trends in deaths over time are based on a consistent panel of reporting jurisdictions. A consistent panel includes those jurisdictions that have reported data for at least 10 months of each year reflected in the trend table/chart. The reason for a consistent panel is to ensure that apparent changes over time are not a result of gaps in reporting. Because participating jurisdictions may change from year to year, consistent panels used in published reports will also change from year to year. This means that trends published in one annual publication are not necessarily comparable to trends published in subsequent annual publications.
- **Coroner:** Death investigation jurisdictions typically use either a medical examiner system or a coroner system. Unlike medical examiners, coroners need not be physicians; usually the only prerequisite for serving as a coroner is that the individual be more than 18 years of age and a resident of the county or district to be served. Coroners are typically elected rather than appointed. They may have jurisdiction over counties or districts within states. (See also **Jurisdiction** and **Medical examiner**.)
- **Drug combinations:** Published tables from the DAWN mortality data refer to "drug combinations" rather than "drug concomitance" (the term used in the ED component). This term refers to multiple drug mentions for a single death, and tables show particular combinations of substances reported for deaths. Readers should note that DAWN cannot differentiate between drugs actually used in combination (simultaneously) and drugs used sequentially.
- **Drug-induced death:** A death directly resulting from drug abuse or other substance abuse, such as drug overdoses or the interactive effects of drug combinations. When more than one drug is mentioned, it cannot be determined which or whether one drug was the sole and direct cause of the episode or death.
- **Drug-related death:** A death in which the abuse of a drug is a contributing factor, but is not the sole cause of death. Such cases include drug abuse that exacerbates a pre-existing physiological condition; drug abuse in combination with an external physical event (e.g., a fall or automobile accident); or a medical disorder that was itself caused by drug abuse (e.g., hepatitis contracted through injection drug use). Drug-related deaths are classified into 2 types, confirmed and presumed. The drug-relatedness is "confirmed" if documentation in the decedent's file substantiates that conclusion. The drug-relatedness is "presumed" if the investigation suggests drug involvement, but the medical examiner/coroner has insufficient evidence to list drug abuse as a

contributing cause on the death certificate. Both confirmed and presumed deaths are included in the published mortality data tables.

Jurisdiction: DAWN uses the term "jurisdiction" to mean the geographic area for which a medical examiner/coroner's office is responsible. In many states, there is a 1:1 correspondence between jurisdictions and counties. In some states, there are multiple medical examiner/coroner offices within a given county, or there may be multiple counties covered by a "district" that includes one or more medical examiners/coroners. A few states are organized as a single statewide jurisdiction.

Understanding jurisdictions is important because this assists readers in interpreting aggregated data. Published DAWN mortality data are aggregated into metropolitan areas, which often comprise multiple jurisdictions. In some states, there are different death investigation procedures for different jurisdictions (most notably, some jurisdictions have medical examiner systems, while others have coroner systems). There are nearly always some differences in death investigation procedures across states (and notably, some metropolitan areas include jurisdictions in multiple states). Readers should be mindful of these variations when interpreting or comparing data.

Information on death investigation practices and an updated list of jurisdictions throughout the U.S. and Canada are available from the Centers for Disease Control and Prevention, Epidemiological Program Office at www.cdc.gov/epo/dphsi/mecisp/death_investigation.htm.

- Manner of death: This variable is used to describe how the decedent died. It is applicable to both drug-induced and drug-related deaths. On the DAWN data collection form, manner of death is coded into the following categories:
 - *Accidental/Unexpected* Although the drug abuse was deliberate, the resulting death was unintended.
 - Suicide Death in which there is evidence that the decedent deliberately used drugs to bring about his or her demise.
 - Homicide Death in which the decedent's life was taken by another individual by means of drugs. These cases, which do not involve the intentional abuse of drugs by the decedent, are not currently included in published tabulations of DAWN mortality data.
 - Natural Death was due to natural causes such as a medical disorder or disease process, if drug abuse caused
 or worsened the decedent's condition.
 - *Undetermined* The manner of death cannot be determined from all available evidence.

In *Mortality Data From DAWN*, manner of death is collapsed into 3 categories: suicide, accidental/unexpected, and "all others." The "all others" category includes cases for which manner of death was recorded as natural, unknown, or undetermined, and cases for which manner of death was missing.

Medical Examiner (ME): Death investigation jurisdictions typically use either a medical examiner system or a coroner system. Most medical examiners are licensed physicians or forensic pathologists, and are generally appointed (rather than elected). They may have jurisdiction over a county, district, or entire state. (See also Coroner and Jurisdiction.)