

DRUG-INDUCED DEATHS DATA SUMMARY

IDAHO

**Drug-Induced Deaths to Idaho Residents and
Drug-Induced Deaths to Idaho Residents Occurring in Idaho**

2005-2007

**Bureau of Vital Records and Health Statistics
Division of Health
Idaho Department of Health and Welfare**

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DRUG-INDUCED DEATHS 2005-2007

Definition

Drug-Induced deaths to Idaho residents include all deaths where drug use/abuse was listed as an underlying cause of death, regardless of where the death occurred. Drug-induced deaths include illicit, prescription, and over-the-counter drugs.

Drug-induced deaths include deaths due to drug psychosis; drug dependence including tobacco; nondependent use of drugs not including alcohol and tobacco; accidental (unintentional) poisoning by drugs, medicaments, and biologicals; intentional self-poisoning (suicide) by drugs, medicaments, and biologicals; assault (homicide) by poisoning by drugs and medicaments; and poisoning by drugs, medicaments, and biologicals, undetermined whether accidental or purposely inflicted.

Drug-induced deaths do not include newborn deaths associated with mother's drug use, accidents such as falls and motor vehicle crashes, homicides, and other causes indirectly related to drug use.

The question 'Did tobacco use contribute to cause of death?' was added to the death certificate in 2003. Prior to 2003, deaths that were ill-defined or had an unknown cause of mortality listed on the death certificate were coded to ICD-10 codes R96-R99.9, (Ill-defined and unknown causes of mortality). Beginning in 2003, deaths that were ill-defined or had an unknown cause of mortality listed on the death certificate were coded to ICD-10 codes R96-R99.9, if the question 'Did tobacco use contribute to cause of death?' was marked no or unknown. If the question 'Did tobacco use contribute to cause of death?' was marked yes or probably, deaths that were ill-defined or had an unknown cause of mortality listed on the death certificate were coded to ICD-10 code F17.9, mental and behavioral disorders due to use of tobacco. Beginning in 2007, a death certificate can only be coded to F17.9 if the resultant physical condition is unknown.

Death certificates with the verbiage 'abuse' or 'usage' will be coded to a natural manner of death, F19.1, (Mental and behavioral disorders due to multiple drug use and use of other psychoactive substances). Death certificates with the verbiage 'overdose' will be coded to an accidental (unintentional), suicide, homicide, or undetermined manner of death depending on the manner of death reported by the coroner.

In Idaho, if a death was due to other than natural causes, a coroner must complete and sign the death certificate.

IDAHO RESIDENT DRUG-INDUCED DEATHS 2005-2007

Limitations

Idaho Vital Records receives death records for Idaho resident deaths occurring out of state. These records list the ICD-10 code for underlying cause of death. However, literal information on immediate cause, conditions leading to the immediate cause, underlying cause, other significant contributing conditions, and description of how the injury occurred are not provided to Idaho Vital Records. For this reason, the table containing data by cause of death is analyzed from the ICD-10 code only.

Summary

There were 389 drug-induced deaths to Idaho residents from 2005 to 2007. Table 1 shows that a total of 365 deaths (93.8 percent) occurred in Idaho. The number of drug-induced deaths for Idaho residents increased 5.0 percent from 119 deaths in 2005 to 125 deaths in 2007.

From 2005 through 2007 the average-annual drug-induced death rate for Idaho was 8.8 deaths per 100,000 population (see Table 2A). The 2005 through 2007 average-annual drug-induced death rate for District 3 (6.9 deaths per 100,000 population) was 33.6 percent lower than the rest of the state. The 2005 through 2007 average-annual drug-induced death rate for District 6 (10.8 deaths per 100,000 population) was 25.7 percent higher than the rest of the state.

Table 3 contains drug-induced deaths for Idaho residents from 2005 through 2007 and for the U.S. for 2005 (latest year available). The drug-induced death rate for the U.S. (11.3 deaths per 100,000 population) was significantly higher than the rate observed in Idaho (8.8 deaths per 100,000 population). Much of the difference can be attributed to the higher rate of accidental (unintentional injury) drug-induced deaths in the United States. The accidental (unintentional injury) drug-induced death rate for the U.S. was 43.4 percent higher than the Idaho rate. The intentional self-harm (suicide) drug-induced death rate was 1.4 deaths per 100,000 population in the U.S. and 1.5 deaths per 100,000 population in Idaho. Coroners were unable to determine the intent for 14.4 percent of all drug-induced deaths for Idaho residents and 9.1 percent for the United States.

TABLE 1
Idaho Resident Drug-Induced Deaths
by Place of Death (In Idaho and Out of State)
2005-2007

	TOTAL		2005		2006		2007	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
IDAHO RESIDENT DRUG-INDUCED DEATHS								
Total Drug-Induced Deaths to Idaho Residents	389	100.0	119	100.0	145	100.0	125	100.0
Deaths Occurring Out of State	24	6.2	8	6.7	11	7.6	5	4.0
Deaths Occurring In Idaho	365	93.8	111	93.3	134	92.4	120	96.0

TABLE 2A
Idaho Resident Drug-Induced Deaths
Number and Average-Annual Rate by District of Residence
2005-2007

	TOTAL	DISTRICT OF RESIDENCE						
		1	2	3	4	5	6	7
IDAHO RESIDENT DRUG-INDUCED DEATHS								
Total Drug-Induced Deaths to Idaho Residents	389	56	26	49	127	40	53	38
Number of Deaths Occurring Out of State	24	7	6	1	6	1	2	1
Number of Deaths Occurring In Idaho	365	49	20	48	121	39	51	37
Average-Annual Idaho Resident Death Rate ¹	8.8	9.1	8.6	6.9	10.5	7.7	10.8	7.0

1. Rate: Average number of drug-induced deaths per 100,000 population. Rates are based on mid-year population.

TABLE 2B
Idaho Resident Drug-Induced Deaths
Percent by District of Residence
2005-2007

	TOTAL	DISTRICT OF RESIDENCE						
		1	2	3	4	5	6	7
IDAHO RESIDENT DRUG-INDUCED DEATHS								
Percent of Deaths Occurring Out of State	6.2%	12.5%	23.1%	2.0%	4.7%	2.5%	3.8%	2.6%
Percent of Deaths Occurring In Idaho	93.8%	87.5%	76.9%	98.0%	95.3%	97.5%	96.2%	97.4%

See Technical Notes for additional information.

TABLE 3
Drug-Induced Deaths
Idaho Residents (2005-2007), United States Residents (2005)

CAUSE OF DEATH	ICD-10 CODE	IDAHO			UNITED STATES		
		Number	Rate ¹	Percent	Number	Rate ¹	Percent
Total Drug-Induced Deaths	Footnote 2	389	8.8	100.0	33,541	11.3	100.0
Total Psychoactive Substance and Drug Use/Abuse	Footnote 3	30	0.7	7.7	3,714	1.3	11.1
Mental and behavioral disorders due to use of tobacco	Footnote 4	20	0.5	5.1	1,100	0.4	3.3
Mental and behavioral disorders due to other drugs	Footnote 5	10	0.2	2.6	2,614	0.9	7.8
Accidental (Unintentional Injury) Poisoning by Drugs	X40-X44	231	5.3	59.4	22,448	7.6	66.9
Nonopioid analgesics, antipyretics, and antirheumatics	X40	1	**	0.3	226	0.1	0.7
Antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs, not elsewhere classified	X41	29	0.7	7.5	1,496	0.5	4.5
Narcotics and psycholeptics (hallucinogens), not elsewhere classified	X42	83	1.9	21.3	11,050	3.7	32.9
Other drugs acting on the autonomic nervous system	X43	-	-	-	23	**	0.1
Other and unspecified drugs, medicaments, and biological substances	X44	118	2.7	30.3	9,653	3.3	28.8
Intentional Self-Harm (Suicide) by Drugs	X60-X64	67	1.5	17.2	4,240	1.4	12.6
Nonopioid analgesics, antipyretics, and antirheumatics	X60	2	**	0.5	243	0.1	0.7
Antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs, not elsewhere classified	X61	11	0.3	2.8	930	0.3	2.8
Narcotics and psycholeptics (hallucinogens), not elsewhere classified	X62	9	0.2	2.3	613	0.2	1.8
Other drugs acting on the autonomic nervous system	X63	-	-	-	16	**	**
Other and unspecified drugs, medicaments, and biological substances	X64	45	1.0	11.6	2,438	0.8	7.3
Assault (Homicide) by Drugs, Medicaments, and Biological Substances	X85	4	0.1	1.0	57	**	0.2
Undetermined Intent Poisoning by Drugs	Y10-Y14	56	1.3	14.4	3,068	1.0	9.1
Nonopioid analgesics, antipyretics, and antirheumatics	Y10	2	**	0.5	71	**	0.2
Antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs, not elsewhere classified	Y11	6	0.1	1.5	290	0.1	0.9
Narcotics and psycholeptics (hallucinogens), not elsewhere classified	Y12	14	0.3	3.6	1,411	0.5	4.2
Other drugs acting on the autonomic nervous system	Y13	-	-	-	5	**	**
Other and unspecified drugs, medicaments, and biological substances	Y14	34	0.8	8.7	1,291	0.4	3.8
Other Drug-Related Deaths	Footnote 6	1	**	0.3	14	**	**

1. Rates are per 100,000 population. Idaho rates are based on mid-year population.

2. See Technical Notes for a full list of ICD-10 codes for drug-induced deaths.

3. ICD-10 Codes for total psychoactive substance and drug use/abuse deaths: F11.0-F11.5, F11.7-F11.9, F12.0-F12.5, F12.7-F12.9, F13.0-F13.5, F13.7-F13.9, F14.0-F14.5, F14.7-F14.9, F15.0-F15.5, F15.7-F15.9, F16.0-F16.5, F16.7-F16.9, F17.0, F17.3-F17.5, F17.7-F17.9, F18.0-F18.5, F18.7-F18.9, F19.0-F19.5, and F19.7-F19.9.

4. ICD-10 Codes for mental and behavioral disorders due to use of tobacco: F17.0, F17.3-F17.5, and F17.7-F17.9.

5. ICD-10 Codes for mental and behavioral disorders due to other drugs: F11.0-F11.5, F11.7-F11.9, F12.0-F12.5, F12.7-F12.9, F13.0-F13.5, F13.7-F13.9, F14.0-F14.5, F14.7-F14.9, F15.0-F15.5, F15.7-F15.9, F16.0-F16.5, F16.7-F16.9, F18.0-F18.5, F18.7-F18.9, F19.0-F19.5, and F19.7-F19.9.

6. ICD-10 Codes for other drug-related deaths: D52.1, D59.0, D59.2, D61.1, D64.2, E06.4, E16.0, E23.1, E24.2, E27.3, E66.1, G21.1, G24.0, G25.1, G25.4, G25.6, G44.4, G62.0, G72.0, I95.2, J70.2-J70.4, L10.5, L27.0, L27.1, M10.2, M32.0, M80.4, M81.4, M83.5, M87.1, R78.1-R78.5.

** Represents a percent that rounds to less than 0.1% or a rate that rounds to less than 0.1 per 100,000 population. Dash (-) represents zero.

IDAHO RESIDENT DRUG-INDUCED DEATHS OCCURRING IN IDAHO 2005-2007

Limitations

Idaho Vital Records receives death records for Idaho resident deaths occurring out of state. These records list the ICD-10 code for underlying cause of death. However, literal information on immediate cause, conditions leading to the immediate cause, underlying cause, other significant contributing conditions, and description of how the injury occurred are not provided to Idaho Vital Records. For this reason, the tables containing data broken out by substances listed on the death certificate are limited to Idaho resident deaths occurring in Idaho only.

Summary

There were 365 drug-induced deaths to Idaho residents occurring in Idaho from 2005 to 2007. The number of Idaho resident drug-induced deaths occurring in Idaho to residents increased 8.1 percent from 111 deaths in 2005 to 120 deaths in 2007.

The literal section of the death certificate allows the coroner/physician to list the substance(s) taken by the decedent. Table 4 shows that the most common substance listed on the death certificate among Idaho residents who died in Idaho was Methadone (17.5 percent) followed by Benzodiazepine (11.8 percent) and Hydrocodone (11.8 percent). A total of 31.8 percent of all drug-induced deaths occurring in Idaho to Idaho residents did not mention a specific drug. Of the 365 drug-induced deaths, 57 (15.6 percent) also listed alcohol.

Table 6 indicates that individuals aged 35-54 accounted for 59.2 percent of the drug-induced deaths to Idaho residents occurring in Idaho. Only 6.0 percent of all deaths were to Idahoans 65 and older. Males accounted for 54.0 percent of all the drug-induced deaths to Idaho residents occurring in Idaho.

The manner of death for drug-induced deaths to Idaho residents occurring in Idaho is shown in Table 7. The majority (58.4 percent) of the drug-induced deaths to Idaho residents occurring in Idaho were the result of unintentional or accidental poisoning. An additional 0.8 percent were assault (homicides), 8.8 percent natural, 17.3 percent intentional self-harm (suicides), and 14.8 percent were undetermined. Of the natural deaths, Mental and behavioral disorders due to use of tobacco accounted for 62.5 percent, an additional 25.0 percent were caused by Mental and behavioral disorders due to multiple drug use and use of other psychoactive substances.

TABLE 4
Idaho Resident Drug-Induced Deaths Occurring in Idaho
Substances Mentioned on Death Certificate by Year
2005-2007

	TOTAL		YEAR		
	Number	Percent	2005	2006	2007
SUMMARY OF SUBSTANCES MENTIONED ON DEATH CERTIFICATE					
Total Drug-Induced Deaths to Idaho Residents Occurring in Idaho	365	100.0	111	134	120
Substances Listed on Death Certificates*	592	100.0	172	212	208
Total Nonopioid Analgesics, Antipyretics, and Antirheumatics	3	0.8	-	2	1
Salicylates/Acetylsalicylic (aspirin)	1	0.3	-	-	1
Other (inc. 4-aminophenol, NSAID, pyrazolone)	2	0.5	-	2	-
Total Antiepileptic, Sedative-Hypnotic, Antiparkinsonism, and Psychotropic	145	39.7	51	44	50
Amphetamine	4	1.1	3	-	1
Antidepressants	37	10.1	17	9	11
Antipsychotics	9	2.5	3	3	3
Barbiturates	1	0.3	1	-	-
Benzodiazepine	43	11.8	11	19	13
Gamma-hydroxybutyrate (GHB)	-	-	-	-	-
Methamphetamine	29	7.9	13	6	10
Muscle relaxants	13	3.6	3	4	6
Other (inc. anxiety, antitussive, sedatives, tranquilizers, etc.)	9	2.5	-	3	6
Total Narcotics and Psychodysleptics (hallucinogens)	212	58.1	52	81	79
Cannabis (Marijuana)	-	-	-	-	-
Cocaine	1	0.3	1	-	-
Codeine	9	2.5	2	5	2
Heroin	10	2.7	3	4	3
Hydrocodone / Hydrocodone and Acetaminophen combinations	43	11.8	10	14	19
Methadone	64	17.5	11	32	21
Morphine	20	5.5	2	8	10
Oxycodone / Oxycontin	24	6.6	10	7	7
Other (inc. LSD, mescaline, opium/alkaloids)	32	8.8	9	9	14
Drug overdose of narcotic drug(s), narcotic drug(s) not listed	9	2.5	4	2	3
Other Known (named), Medicaments, and Biological Substances	39	10.7	14	14	11
Antihistamines	27	7.4	10	11	6
Other (inc. antiemetics, antihypertensive, insulin, anticonvulsant, etc.)	12	3.3	4	3	5
Alcohol in combination with a drug(s)	57	15.6	16	22	19
Tobacco Use	20	5.5	8	11	1
Specific Drug, Medicament, or Biological Substance Not Listed	116	31.8	31	38	47
Drug use/overdose, no mention of type of drug(s)	54	14.8	15	19	20
Drug use/overdose of pain medication(s), pain medication(s) not listed	1	0.3	-	-	1
Drug use/overdose of prescription drug(s), prescription drug(s) not listed	61	16.7	16	19	26

* Each death certificate may list one or more specific substance(s) or no specific substance. See Technical Notes for additional information.

TABLE 5
Idaho Resident Drug-Induced Deaths Occurring in Idaho
Substances Mentioned on Death Certificate by District of Residence
2005-2007

SUMMARY OF SUBSTANCES MENTIONED ON DEATH CERTIFICATE	TOTAL	DISTRICT OF RESIDENCE						
		1	2	3	4	5	6	7
Total Drug-Induced Deaths to Idaho Residents Occurring in Idaho	365	49	20	48	121	39	51	37
Substances Listed on Death Certificates*	592	105	28	72	230	52	60	45
Total Nonopioid Analgesics, Antipyretics, and Antirheumatics	3	1	-	2	-	-	-	-
Salicylates/Acetylsalicylic (aspirin)	1	-	-	1	-	-	-	-
Other (inc. 4-aminophenol, NSAID, pyrazolone)	2	1	-	1	-	-	-	-
Total Antiepileptic, Sedative-Hypnotic, Antiparkinsonism, and Psychotropic	145	25	3	17	76	10	8	6
Amphetamine	4	1	-	1	2	-	-	-
Antidepressants	37	6	1	2	19	3	2	4
Antipsychotics	9	-	1	4	3	1	-	-
Barbiturates	1	-	-	-	-	-	-	1
Benzodiazepine-Not Otherwise Stated	43	12	1	3	24	-	3	-
Gamma-hydroxybutyrate (GHB)	-	-	-	-	-	-	-	-
Methamphetamine	29	3	-	3	17	3	2	1
Muscle relaxants	13	3	-	2	5	3	-	-
Other (inc. antianxiety, antitussive, sedatives, tranquilizers, etc.)	9	-	-	2	6	-	1	-
Total Narcotics and Psychodysleptics (hallucinogens)	212	40	10	16	110	15	11	10
Cannabis (Marijuana)	-	-	-	-	-	-	-	-
Cocaine	1	1	-	-	-	-	-	-
Codeine	9	-	1	2	5	-	1	-
Heroin	10	-	-	3	7	-	-	-
Hydrocodone / Hydrocodone and Acetaminophen combinations	43	6	1	4	27	4	1	-
Methadone	64	13	3	4	30	4	4	6
Morphine	20	4	-	-	11	2	1	2
Oxycodone / Oxycodone	24	8	-	-	11	3	1	1
Other (inc. LSD, mescaline, opium/alkaloids)	32	8	1	3	17	1	1	1
Drug overdose of narcotic drug(s), narcotic drug(s) not listed	9	-	4	-	2	1	2	-
Other Known (named), Medicaments, and Biological Substances	39	14	-	2	15	7	1	-
Antihistamines	27	9	-	-	12	6	-	-
Other (inc. antiemetics, antihypertensive, insulin, anticonvulsant, etc.)	12	5	-	2	3	1	1	-
Alcohol in combination with a drug(s)	57	12	3	7	19	5	4	7
Tobacco Use	20	-	1	7	6	2	2	2
Specific Drug, Medicament, or Biological Substance Not Listed	116	13	11	21	4	13	34	20
Drug use/overdose, no mention of type of drug(s)	54	12	6	6	3	5	17	5
Drug use/overdose of pain medication(s), pain medication(s) not listed	1	-	-	-	-	-	-	-
Drug use/overdose of prescription drug(s), prescription drug(s) not listed	61	1	5	15	1	8	16	15

* Each death certificate may list one or more specific substance(s) or no specific substance. See Technical Notes for additional information.

TABLE 6
Idaho Resident Drug-Induced Deaths Occurring in Idaho
Substances Mentioned on Death Certificate by Age Group and Gender
2005-2007

SUMMARY OF SUBSTANCES MENTIONED ON DEATH CERTIFICATE	TOTAL	AGE GROUP					GENDER	
		<35	35-44	45-54	55-64	65+	Female	Male
Total Drug-Induced Deaths to Idaho Residents Occurring in Idaho	365	81	97	119	46	22	168	197
Substances Listed on Death Certificates*	592	137	174	186	69	26	278	314
Total Nonopioid Analgesics, Antipyretics, and Antirheumatics	3	1	-	1	1	-	5	1
Salicylates/Acetylsalicylic (aspirin)	1	1	-	-	-	-	1	-
Other (inc. 4-aminophenol, NSAID, pyrazolone)	2	-	-	1	1	-	2	-
Total Antiepileptic, Sedative-Hypnotic, Antiparkinsonism, and Psychotropic	145	33	50	49	12	1	72	73
Amphetamine	4	1	2	-	1	-	3	1
Antidepressants	37	6	13	13	5	-	22	15
Antipsychotics	9	2	1	6	-	-	5	4
Barbiturates	1	1	-	-	-	-	-	1
Benzodiazepine-Not Otherwise Stated	43	10	12	16	4	1	22	21
Gamma-hydroxybutyrate (GHB)	-	-	-	-	-	-	-	-
Methamphetamine	29	9	12	7	1	-	8	21
Muscle relaxants	13	2	6	4	1	-	7	6
Other (inc. antianxiety, antitussive, sedatives, tranquilizers, etc.)	9	2	4	3	-	-	5	4
Total Narcotics and Psychodysleptics (hallucinogens)	212	57	61	59	25	10	86	123
Cannabis (Marijuana)	-	-	-	-	-	-	-	-
Cocaine	1	-	1	-	-	-	-	1
Codeine	9	2	2	4	1	-	5	4
Heroin	10	3	2	4	1	-	-	10
Hydrocodone / Hydrocodone and Acetaminophen combinations	43	8	15	11	5	4	22	21
Methadone	64	25	14	17	6	2	22	42
Morphine	20	3	8	5	4	-	10	10
Oxycodone / Oxycontin	24	6	9	7	2	-	9	15
Other (inc. LSD, mescaline, opium/alkaloids)	32	7	9	8	5	3	16	16
Drug overdose of narcotic drug(s), narcotic drug(s) not listed	9	3	1	3	1	1	4	5
Other Known (named), Medicaments, and Biological Substances	39	14	12	4	5	4	25	14
Antihistamines	27	12	9	3	2	1	18	9
Other (inc. antiemetics, antihypertensive, insulin, anticonvulsant, etc.)	12	2	3	1	3	3	7	5
Alcohol in combination with a drug(s)	57	11	15	23	6	2	19	38
Tobacco Use	20	-	2	2	8	8	8	12
Specific Drug, Medicament, or Biological Substance Not Listed	116	21	34	48	12	1	63	53
Drug use/overdose, no mention of type of drug(s)	54	10	18	22	4	-	28	26
Drug use/overdose of pain medication(s), pain medication(s) not listed	1	-	-	1	-	-	1	-
Drug use/overdose of prescription drug(s), prescription drug(s) not listed	61	11	16	25	8	1	34	27

* Each death certificate may list one or more specific substance(s) or no specific substance. See Technical Notes for additional information.

TABLE 7
Idaho Resident Drug-Induced Deaths Occurring in Idaho
Substances Mentioned on Death Certificate by Manner of Death
2005-2007

SUMMARY OF SUBSTANCES MENTIONED ON DEATH CERTIFICATE	TOTAL	MANNER OF DEATH ¹				
		Accident	Homicide	Natural	Suicide	Undetermined
Total Drug-Induced Deaths to Idaho Residents Occurring in Idaho	365	213	3	32	63	54
Substances Listed on Death Certificates²	592	353	3	36	121	79
Total Nonopioid Analgesics, Antipyretics, and Antirheumatics	3	-	-	1	2	-
Salicylates/Acetylsalicylic (aspirin)	1	-	-	-	1	-
Other (inc. 4-aminophenol, NSAID, pyrazolone)	2	-	-	1	1	-
Total Antiepileptic, Sedative-Hypnotic, Antiparkinsonism, and Psychotropic	145	85	-	-	38	22
Amphetamine	4	-	-	-	3	1
Antidepressants	37	17	-	-	10	10
Antipsychotics	9	4	-	-	4	1
Barbiturates	1	1	-	-	-	-
Benzodiazepine-Not Otherwise Stated	43	29	-	-	9	5
Gamma-hydroxybutyrate (GHB)	-	-	-	-	-	-
Methamphetamine	29	24	-	-	3	2
Muscle relaxants	13	7	-	-	4	2
Other (inc. antianxiety, antitussive, sedatives, tranquilizers, etc.)	9	3	-	-	5	1
Total Narcotics and Psychodysleptics (hallucinogens)	212	154	-	2	28	28
Cannabis (Marijuana)	-	-	-	-	-	-
Cocaine	1	-	-	-	-	1
Codeine	9	7	-	-	1	1
Heroin	10	10	-	-	-	-
Hydrocodone / Hydrocodone and Acetaminophen combinations	43	31	-	-	10	2
Methadone	64	48	-	-	5	11
Morphine	20	16	-	-	1	3
Oxycodone / Oxycodone	24	17	-	-	3	4
Other (inc. LSD, mescaline, opium/alkaloids)	32	20	-	1	7	4
Drug overdose of narcotic drug(s), narcotic drug(s) not listed	9	5	-	1	1	2
Other Known (named), Medicaments, and Biological Substances	39	16	3	2	14	4
Antihistamines	27	13	3	-	9	2
Other (inc. antiemetics, antihypertensive, insulin, anticonvulsant, etc.)	12	3	-	2	5	2
Alcohol in combination with a drug(s)	57	34	-	4	15	4
Tobacco Use	20	-	-	20	-	-
Specific Drug, Medicament, or Biological Substance Not Listed	116	64	-	7	24	21
Drug use/overdose, no mention of type of drug(s)	54	28	-	7	8	11
Drug use/overdose of pain medication(s), pain medication(s) not listed	1	-	-	-	-	1
Drug use/overdose of prescription drug(s), prescription drug(s) not listed	61	36	-	-	16	9

1. Accident (unintentional injury), assault (homicide), and intentional self-harm (suicide).
2. Each death certificate may list one or more specific substance(s) or no specific substance.
See Technical Notes for additional information.

NATURAL EXAMPLE

According to The National Association of Medical Examiners, a drug overdose is determined natural when it is “due solely or nearly totally to disease/and or the aging process.”

Death certificates with the verbiage ‘abuse’ or ‘usage’ will be coded to a natural manner of death, ICD-10 code F19.1, Mental and behavioral disorders due to multiple drug use and use of other psychoactive substances. Death certificates with the verbiage ‘overdose’ will not be classified as natural deaths.

CAUSE OF DEATH		Approximate Interval: Onset to Death
<p>PART I. Enter the chain of events - - diseases, injuries, or complications - - that directly caused the death. DO NOT enter terminal events such as cardiac arrest, respiratory arrest, or ventricular fibrillation without showing the etiology. DO NOT ABBREVIATE. Enter only one cause on a line:</p> <p>IMMEDIATE CAUSE (Final disease or condition resulting in death) </p> <p>Sequentially list conditions, if any, leading to the cause listed on line a. Enter the UNDERLYING CAUSE LAST (disease or injury that initiated the events)</p>		Immediate
	a. <u>Ventricular Fibrillation to Asystole</u> DUE TO (or as a consequence of):	Years
	b. <u>Chronic Hepatic Failure</u> DUE TO (or as a consequence of):	Years
	c. <u>Substance Abuse</u> DUE TO (or as a consequence of):	Years
	d. _____ DUE TO (or as a consequence of):	Years
<p>PART II. Enter <u>other significant conditions contributing to death</u> but not resulting in the underlying cause given in Part I</p> <p>Alcohol abuse</p>		<p>MANNER OF DEATH</p> <p><input checked="" type="checkbox"/> Natural <input type="checkbox"/> Homicide</p> <p><input type="checkbox"/> Accident <input type="checkbox"/> Pending Investigation</p> <p><input type="checkbox"/> Suicide <input type="checkbox"/> Could not be determined</p>
<p>DID TOBACCO USE CONTRIBUTE TO DEATH?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Probably <input checked="" type="checkbox"/> Unknown</p>	<p>DESCRIBE HOW INJURY OCCURRED. IF TRANSPORTATION INJURY, STATE THE TYPE(S) OF VEHICLE(S) INVOLVED (Automobile, pickup, motorcycle, ATV, bicycle, etc.)</p> <p>SPECIFY WHICH VEHICLE DECEDENT OCCUPIED, if applicable</p>	

UNDETERMINED EXAMPLE

According to The National Association of Medical Examiners, a drug overdose is undetermined when “the information pointing to one manner of death is no more compelling than one or more other competing manners of death when all information is considered.” In the absence of witnesses, the intent may never be known even after an extensive investigation.

Physicians and coroners can list out each individual substance that contributed to the decedent's cause of death or they can list the drug category. The decedent may have used several types of one category, such as an antidepressant. Therefore, the physician or coroner chooses to write ‘antidepressant’ rather than ‘Prozac’ and ‘Zoloft’. The underlying cause of death for this example is ICD-10 code Y14.

CAUSE OF DEATH		Approximate Interval: Onset to Death
<p>PART I. Enter the chain of events - - diseases, injuries, or complications - - that directly caused the death. DO NOT enter terminal events such as cardiac arrest, respiratory arrest, or ventricular fibrillation without showing the etiology. DO NOT ABBREVIATE. Enter only one cause on a line:</p> <p>IMMEDIATE CAUSE (Final disease or condition resulting in death) </p> <p>Sequentially list conditions, if any, leading to the cause listed on line a. Enter the UNDERLYING CAUSE LAST (disease or injury that initiated the events)</p>		36 hours
	a. <u>Narcotic overdose</u> DUE TO (or as a consequence of):	36 hours
	b. <u>Benzodiazepine overdose</u> DUE TO (or as a consequence of):	36 hours
	c. <u>Tricyclic antidepressant overdose</u> DUE TO (or as a consequence of):	36 hours
	d. _____ DUE TO (or as a consequence of):	Years
<p>PART II. Enter <u>other significant conditions contributing to death</u> but not resulting in the underlying cause given in Part I</p>		<p>MANNER OF DEATH</p> <p><input type="checkbox"/> Natural <input type="checkbox"/> Homicide</p> <p><input type="checkbox"/> Accident <input type="checkbox"/> Pending Investigation</p> <p><input type="checkbox"/> Suicide <input checked="" type="checkbox"/> Could not be determined</p>
<p>DID TOBACCO USE CONTRIBUTE TO DEATH?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Probably <input checked="" type="checkbox"/> Unknown</p>	<p>DESCRIBE HOW INJURY OCCURRED. IF TRANSPORTATION INJURY, STATE THE TYPE(S) OF VEHICLE(S) INVOLVED (Automobile, pickup, motorcycle, ATV, bicycle, etc.)</p> <p>SPECIFY WHICH VEHICLE DECEDENT OCCUPIED, if applicable</p> <p>Ingested lethal dosage of prescription drugs</p>	

ACCIDENT (UNINTENTIONAL INJURY) EXAMPLE

According to The National Association of Medical Examiners, a drug overdose is determined an accident when “there is little or no evidence that the injury or poisoning occurred with intent to harm or cause death.”

The cause of death is a synthesis of all information derived from both the investigation into the circumstances surrounding the death and the autopsy, if performed. The medical examiner or coroner must use all the information from his or her own investigation, police reports, staff investigations, and discussions with the family and friends of the decedent to determine the manner of death. The underlying cause of death for this example is ICD-10 code X44.

CAUSE OF DEATH		Approximate Interval: Onset to Death
<p>PART I. Enter the chain of events - - diseases, injuries, or complications - - that directly caused the death. DO NOT enter terminal events such as cardiac arrest, respiratory arrest, or ventricular fibrillation without showing the etiology. DO NOT ABBREVIATE. Enter only one cause on a line:</p> <p>IMMEDIATE CAUSE (Final disease or condition resulting in death) ➔</p> <p>Sequentially list conditions, if any, leading to the cause listed on line a. Enter the UNDERLYING CAUSE LAST (disease or injury that initiated the events)</p> <p>a. <u>Accidental overdose of</u> DUE TO (or as a consequence of): _____</p> <p>b. <u>acute combined poisoning with</u> DUE TO (or as a consequence of): _____</p> <p>c. <u>Methadone, Hydrocodone, Promethazine</u> DUE TO (or as a consequence of): _____</p> <p>d. _____</p>		
<p>PART II. Enter <u>other significant conditions contributing to death</u> but not resulting in the underlying cause given in Part I</p> <p>Depression, schizophrenia, chronic pain</p>		<p>MANNER OF DEATH</p> <p><input type="checkbox"/> Natural <input type="checkbox"/> Homicide</p> <p><input checked="" type="checkbox"/> Accident <input type="checkbox"/> Pending Investigation</p> <p><input type="checkbox"/> Suicide <input type="checkbox"/> Could not be determined</p>
<p>DID TOBACCO USE CONTRIBUTE TO DEATH?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Probably <input checked="" type="checkbox"/> Unknown</p>	<p>DESCRIBE HOW INJURY OCCURRED. IF TRANSPORTATION INJURY, STATE THE TYPE(S) OF VEHICLE(S) INVOLVED (Automobile, pickup, motorcycle, ATV, bicycle, etc.) SPECIFY WHICH VEHICLE DECEDENT OCCUPIED, if applicable</p> <p>Was having pain, kept taking pills not aware of effect</p>	

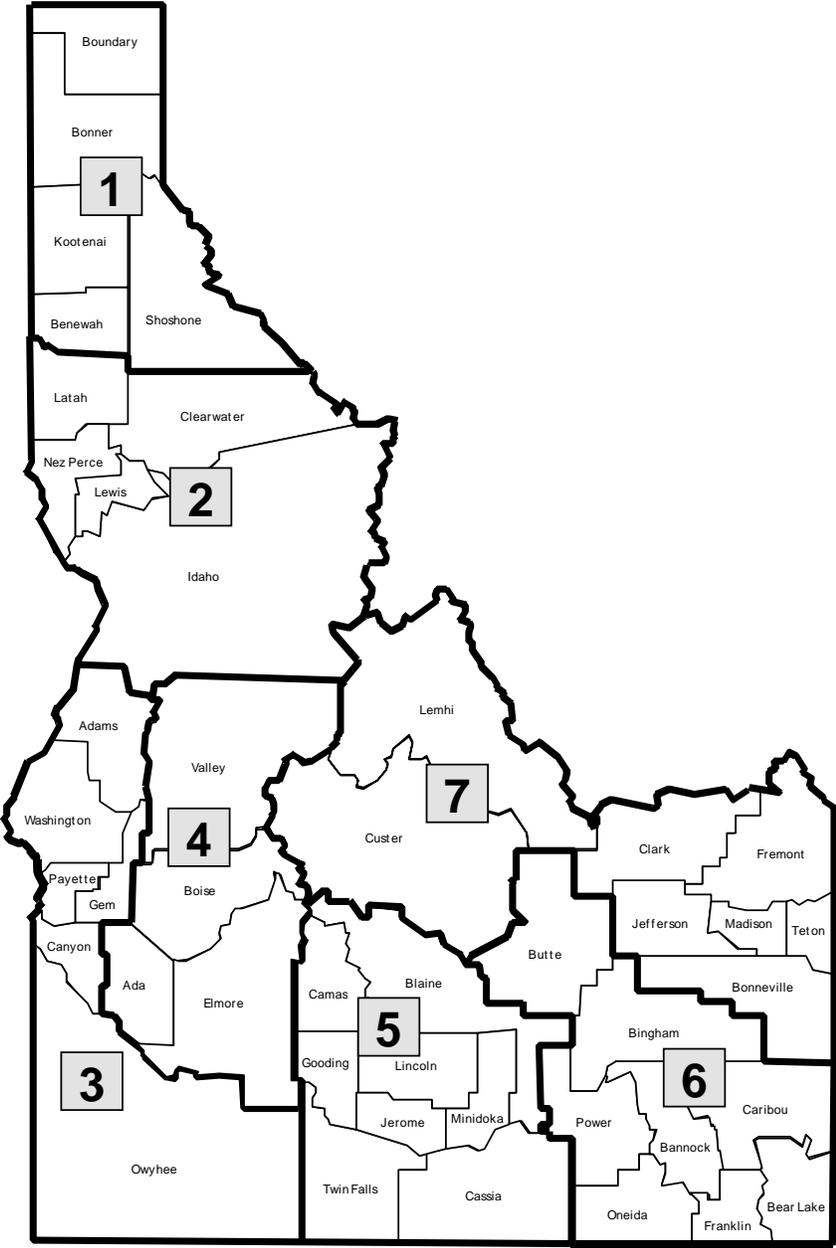
INTENTIONAL SELF-HARM (SUICIDE) EXAMPLE

According to The National Association of Medical Examiners, a drug overdose is determined a suicide when the “results from an injury or poisoning is a result of an intentional, self-inflicted act committed to do self-harm or cause the death of one’s self.”

The medical examiner or coroner may not indicate on the death certificate how they determined the death was a suicide. For example, if the decedent left a suicide note, the medical examiner or coroner may choose not to mention it on the death certificate and would check the suicide checkbox. The underlying cause of death for this example is ICD-10 code X64.

CAUSE OF DEATH		Approximate Interval: Onset to Death
<p>PART I. Enter the chain of events - - diseases, injuries, or complications - - that directly caused the death. DO NOT enter terminal events such as cardiac arrest, respiratory arrest, or ventricular fibrillation without showing the etiology. DO NOT ABBREVIATE. Enter only one cause on a line:</p> <p>IMMEDIATE CAUSE (Final disease or condition resulting in death) ➔</p> <p>Sequentially list conditions, if any, leading to the cause listed on line a. Enter the UNDERLYING CAUSE LAST (disease or injury that initiated the events)</p> <p>a. <u>Acute drug overdose</u> DUE TO (or as a consequence of): _____</p> <p>b. _____ DUE TO (or as a consequence of): _____</p> <p>c. _____ DUE TO (or as a consequence of): _____</p> <p>d. _____</p>		
<p>PART II. Enter <u>other significant conditions contributing to death</u> but not resulting in the underlying cause given in Part I</p>		<p>MANNER OF DEATH</p> <p><input type="checkbox"/> Natural <input type="checkbox"/> Homicide</p> <p><input type="checkbox"/> Accident <input type="checkbox"/> Pending Investigation</p> <p><input checked="" type="checkbox"/> Suicide <input type="checkbox"/> Could not be determined</p>
<p>DID TOBACCO USE CONTRIBUTE TO DEATH?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p><input type="checkbox"/> Probably <input type="checkbox"/> Unknown</p>	<p>DESCRIBE HOW INJURY OCCURRED. IF TRANSPORTATION INJURY, STATE THE TYPE(S) OF VEHICLE(S) INVOLVED (Automobile, pickup, motorcycle, ATV, bicycle, etc.) SPECIFY WHICH VEHICLE DECEDENT OCCUPIED, if applicable</p> <p>Took alprazolam, codeine, carisprodol, meprobamate & diphenhydramine</p>	

APPENDIX
Counties Comprising Idaho Public Health Districts



District 1	District 2	District 3	District 4	District 5	District 6	District 7
Benewah Bonner Boundary Kootenai Shoshone	Clearwater Idaho Latah Lewis Nez Perce	Adams Canyon Gem Owyhee Payette Washington	Ada Boise Elmore Valley	Blaine Camas Cassia Gooding Jerome Lincoln Minidoka Twin Falls	Bannock Bear Lake Bingham Butte Caribou Franklin Oneida Power	Bonneville Clark Custer Fremont Jefferson Lemhi Madison Teton

Technical Notes
Idaho Resident Drug-Induced Deaths
2005-2007

Drug-Induced Deaths

Drug-induced deaths as classified by the National Center for Health Statistics (NCHS). The list of codes included in drug-induced causes was expanded in 2003 and again in 2006 to be more comprehensive. ICD-10 codes: D52.1, D59.0, D59.2, D61.1, D64.2, E06.4, E16.0, E23.1, E24.2, E27.3, E66.1, F11.0-F11.5, F11.7-F11.9, F12.0-F12.5, F12.7-F12.9, F13.0-F13.5, F13.7-F13.9, F14.0-F14.5, F14.7-F14.9, F15.0-F15.5, F15.7-F15.9, F16.0-F16.5, F16.7-F16.9, F17.0, F17.3-F17.5, F17.7-F17.9, F18.0-F18.5, F18.7-F18.9, F19.0-F19.5, F19.7-F19.9, G21.1, G24.0, G25.1, G25.4, G25.6, G44.4, G62.0, G72.0, I95.2, J70.2-J70.4, K85.3, L10.5, L27.0, L27.1, M10.2, M32.0, M80.4, M81.4, M83.5, M87.1, R50.2, R78.1- R78.5, X40-X44, X60-X64, X85, and Y10-Y14. Drug-induced deaths include deaths due to drug psychosis; drug dependence; nondependent use of drugs not including alcohol and tobacco; accidental poisoning by drugs, medicaments, and biologicals; intentional self-poisoning (suicide) by drugs, medicaments, and biologicals; assault (homicide) by poisoning by drugs and medicaments; and poisoning by drugs, medicaments, and biologicals, undetermined whether accidental or purposely inflicted. Drug-induced deaths do not include newborn deaths associated with mother's drug use or accidents such as falls and motor vehicle crashes, homicides, and other causes indirectly related to drug use.

ICD-10 Code F17.9: unspecified mental and behavioural disorder due to use of tobacco (chain, former, life long, or packs per day). The question 'Did tobacco use contribute to cause of death?' was added to the death certificate in 2003. Prior to 2003, deaths that were ill-defined or had an unknown cause of mortality listed on the death certificate were coded to ICD-10 codes R96-R99.9. Beginning in 2003, deaths that were ill-defined or had an unknown cause of mortality listed on the death certificate were coded to ICD-10 codes R96-R99.9, if the question 'Did tobacco use contribute to cause of death?' was marked no or unknown. If the question 'Did tobacco use contribute to cause of death?' was marked yes or probably, deaths that were ill-defined or had an unknown cause of mortality listed on the death certificate were coded to ICD-10 code F17.9. Beginning in 2007, a death certificate can only be coded to F17.9 if the resultant physical condition is unknown.

Idaho Vital Records receives death records for Idaho resident deaths occurring out of state. These records list the ICD-10 code for underlying cause of death. However, literal information on immediate cause, conditions leading to the immediate cause, underlying cause, other significant contributing conditions, and description of how the injury occurred are not provided to Idaho Vital Records. Therefore, only substances listed on death certificates to Idaho residents occurring in Idaho are shown in tables 4-7.

Substances Listed on Death Certificate

Includes all substances listed on the Idaho death certificate on one or more of the following lines: immediate cause, conditions leading to the immediate cause, underlying cause, other significant contributing conditions, and description of how the injury occurred. Each death certificate may list one or more specific substance(s) or no specific substance.

Other Antiepileptic Sedative-Hypnotic, Antiparkinsonism, and Psychotropic*

Other, includes antianxiety, antitussive, sedatives, tranquilizers, etc.

Ambien	Meprobamate
Buspirone	Sleeping pills
Dextromethorphan	Zolpidem

Other Known (named) Medicaments, and Biological Substances*

Includes the following substances named on the death certificate that are not elsewhere classified:

Amiodarone	Lisinopril
Carbamazepine	Metaclopramide
Colchicine	Oxcarbazepine
Helium	Verapamil
Insulin	

*Only includes those substances listed on an Idaho death certificate in 2005, 2006, or 2007.

Data may differ from previously published data due to updates in the data base or coding practices.

Source: Idaho Department of Health and Welfare, Bureau of Vital Records and Health Statistics (12/2008).