

DRUG-INDUCED DEATHS DATA SUMMARY

IDAHO

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

2009

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

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INTRODUCTION

This edition of the Drug-induced Deaths Data Summary has been revised to provide additional data and perspectives on drug-induced deaths in Idaho. This edition includes information on deaths occurring in Idaho and information on deaths to Idaho residents. Only tables 6, 7A, and 7B are comparable to previous publications. All other tables are new and do not contain information comparable to previous reports.

DEFINITIONS:

- Drug-induced deaths include deaths caused by illicit, prescription, and over-the-counter drug use. These drug deaths include those due to:
 - drug psychosis;
 - drug dependence including alcohol and 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;
 - 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
- Deaths to Idaho Residents: Drug-induced deaths to Idaho residents include all deaths where drug use/abuse was listed as the underlying cause of death, regardless of where the death occurred. (Pages 4-12)
- Deaths Occurring in Idaho: Drug-induced deaths occurring in Idaho include all deaths where drug use/abuse was listed as the underlying cause of death, regardless of where the individual resided. (Pages 14-16)

WHERE THE INFORMATION COMES FROM:

Literal information reported on the Idaho death certificate in the cause-of-death section and a check box marked to manner of death are used to assign an International Statistical Classification of Diseases (ICD-10) code for the underlying cause of death. The ICD-10 code and this literal information are used to categorize the drug(s) involved in the death. For a full list of these codes, see the Technical Notes section on page 17.

Death certificates with the verbiage 'abuse' or 'usage' were 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' were coded to an accidental (unintentional), suicide, homicide, or undetermined manner of death depending on the manner of death reported by the coroner.

WHO DETERMINES THE CAUSE OF DEATH:

Physicians and other Idaho registered certifiers determine the factor(s) that make up the underlying cause of death. If the death was due to an external cause of death, a cause due to something other than a natural cause of death, a coroner must complete and sign the death certificate. This information is submitted to the Bureau of Vital Records and Health Statistics where the literal information is used to determine the ICD-10 code for the underlying cause of death.

The underlying causes of death (and associated ICD-10 codes) were used for analysis for Idaho resident deaths in this report (Pages 4-12). For those deaths occurring in Idaho (Pages 14-16), a search of the literal information listed on the death certificate was used for analysis. The drug(s) and drug name(s) were used for classification.

IDAHO RESIDENT DRUG-INDUCED DEATHS

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 by cause of death are analyzed from the ICD-10 code only.

HIGHLIGHTS

Ten-Year Trends:

- From 2000 to 2009, 1,244 Idaho residents died from a drug-induced death.
- The number of drug-induced deaths increased two and a half times from 69 to 184.
- The ten-year total drug-induced deaths were higher for men than for women with 666 deaths to men and 578 deaths to women.
- The number of drug-induced deaths to women exceeded that of men in 2007 and in 2009 with 64 and 102 deaths to women, respectively.
 - The rate for female drug induced deaths more than doubled from 2000 to 2009 (from 4.3 to 13.2 per 100,000 females) while the rate for men increased 68.3 percent (from 6.3 to 10.6 per 100,000 males) in the same time period.
- The highest rate and number of deaths occurred to those Idaho residents between the ages of 45 and 54 (379 deaths and 19.5 per 100,000 population).
- The highest proportion of drug-induced deaths to Idaho residents were due to accidental poisonings (57.3 percent).

Three-Year Aggregate:

- Ninety-five percent (95.2 percent) of Idaho resident drug-induced deaths occurred within the State from 2007 to 2009.
- From 2007 to 2009, District 6 had the highest age-adjusted drug-induced death rate (12.8 per 100,000 population) – a rate 26.7 percent higher than the age-adjusted rate for Idaho (10.1 per 100,000 population).
- Ada county had the highest number of residents who died from a drug-induced cause, but not the highest rate (139 deaths, 12.2 per 100,000 population).
- From 2007 to 2009, individuals aged 45 to 54 had the highest number of drug-induced deaths as well as the highest death rate (152 deaths, 24.3 per 100,000 population).
- Sixty percent (60.0 percent) of drug-induced deaths to Idaho residents from 2007 to 2009 were the result of an accidental poisoning.

TABLE 1
Idaho Resident Drug-Induced Deaths and Death Rates
by Gender and Year of Death
Ten-Year Trend 2000-2009

		Total	Year of Death									
			2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Total Drug-Induced Deaths		1,244	69	100	120	117	111	119	145	125	154	184
Female	Number	578	28	43	55	54	51	44	66	64	71	102
	Rate	8.2	4.3	6.5	8.2	7.9	7.3	6.2	9.1	8.6	9.4	13.2
Male	Number	666	41	57	65	63	60	75	79	61	83	82
	Rate	9.4	6.3	8.6	9.7	9.2	8.6	10.5	10.7	8.1	10.8	10.6

CHART 1
Idaho Resident Drug-Induced Death Rates
by Gender and Year of Death
Ten-Year Trend 2000-2009

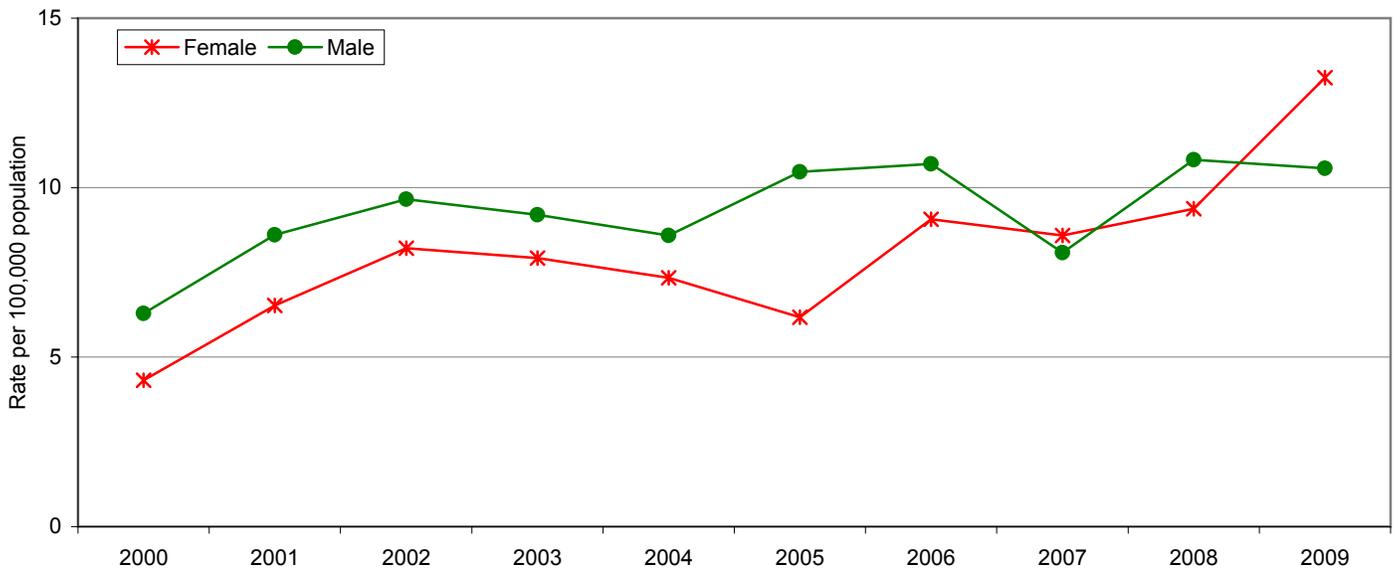


TABLE 2
Idaho Resident Drug-Induced Deaths and Death Rates
by Age Group and Year of Death
Ten-Year Trend 2000-2009

		Total	Year of Death									
			2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Total Drug-Induced Deaths		1,244	69	100	120	117	111	119	145	125	154	184
Aged <35	Number	281	15	24	20	21	28	24	36	32	35	46
	Rate	5.5	3.1	4.9	4.0	4.2	5.5	4.6	6.8	6.0	6.5	8.4
Aged 35-44	Number	342	18	37	35	38	34	36	40	25	34	45
	Rate	17.8	9.3	19.2	18.3	19.9	17.7	18.5	20.6	12.9	17.6	23.6
Aged 45-54	Number	379	23	22	43	34	28	38	39	49	44	59
	Rate	19.5	13.4	12.3	23.4	18.1	14.5	18.9	19.2	23.7	21.1	28.7
Aged 55-64	Number	150	8	11	8	13	10	17	18	13	30	22
	Rate	10.7	7.4	9.7	6.7	10.2	7.4	11.8	11.8	8.1	18.0	12.8
Aged 65+	Number	92	5	6	14	11	11	4	12	6	11	12
	Rate	5.6	3.4	4.0	9.2	7.1	6.9	2.4	7.1	3.4	6.0	6.4

Rate per 100,000 population in specified age group. Rate for <35 based on 10 to 34 year-old population

NOTE: 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. See technical notes for list of ICD-10 codes included in the total.

CHART 2
Idaho Resident Drug-Induced Death Rates
Death Rates by Age Group and Year of Death
Ten-Year Trend 2000-2009

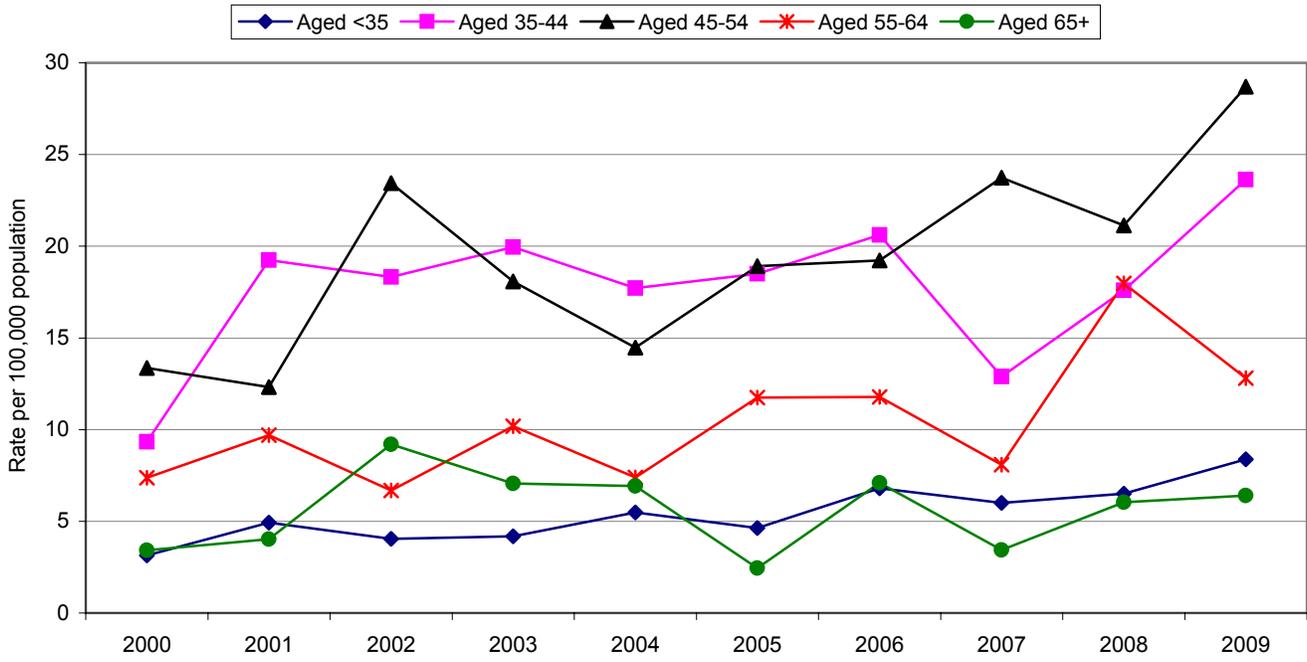


CHART 3
Idaho Resident Drug-Induced Deaths
Number of Deaths by Age Group and Year of Death
Ten-Year Trend 2000-2009

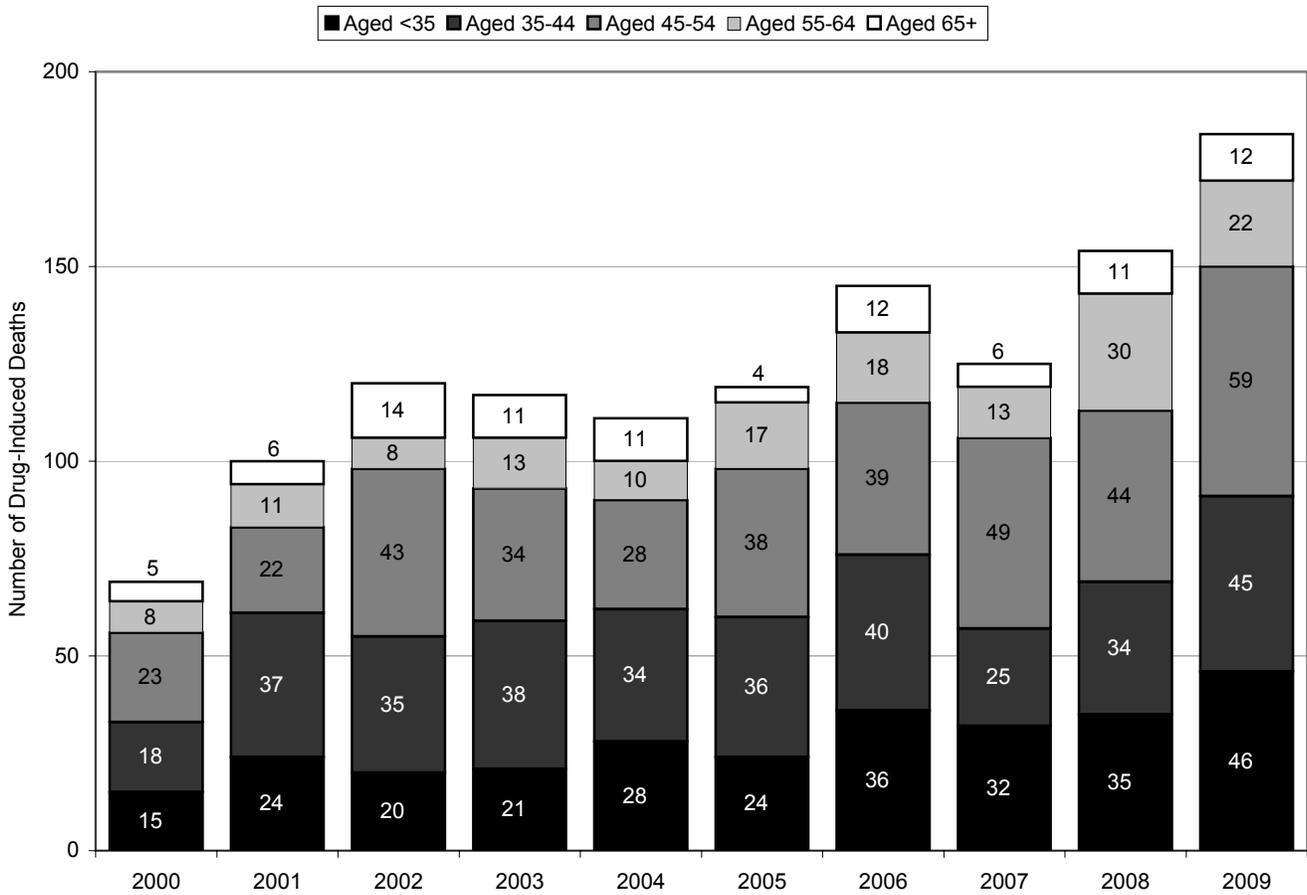


TABLE 3
Idaho Resident Drug-Induced Deaths
Cause of Death by Year of Death
Ten-Year Trend 2000-2009

Cause of Death	Total	Year of Death									
		2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Total Drug-Induced Deaths	1,244	69	100	120	117	111	119	145	125	154	184
<i>Psychoactive substance and drug use/abuse</i>	84	5	1	4	15	13	8	17	5	6	10
<i>Accidental poisoning by drugs</i>	713	32	60	73	57	66	62	85	84	93	101
<i>Intentional self-harm (suicide) by drugs</i>	245	19	25	22	22	16	21	25	21	30	44
<i>Assault by drugs and medicaments</i>	8	1	1	-	1	-	4	-	-	1	-
<i>Poisoning by drugs and medicaments, undetermined intent</i>	193	12	13	21	22	16	23	18	15	24	29
<i>Other drug-related deaths</i>	1	-	-	-	-	-	1	-	-	-	-

NOTE: 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. See technical notes for list of ICD-10 codes included in the total. For specific ICD-10 codes for each category, see footnote of Table 5.

CHART 4
Idaho Resident Drug-Induced Deaths
Cause of Death by Year
Ten-Year Trend 2000-2009

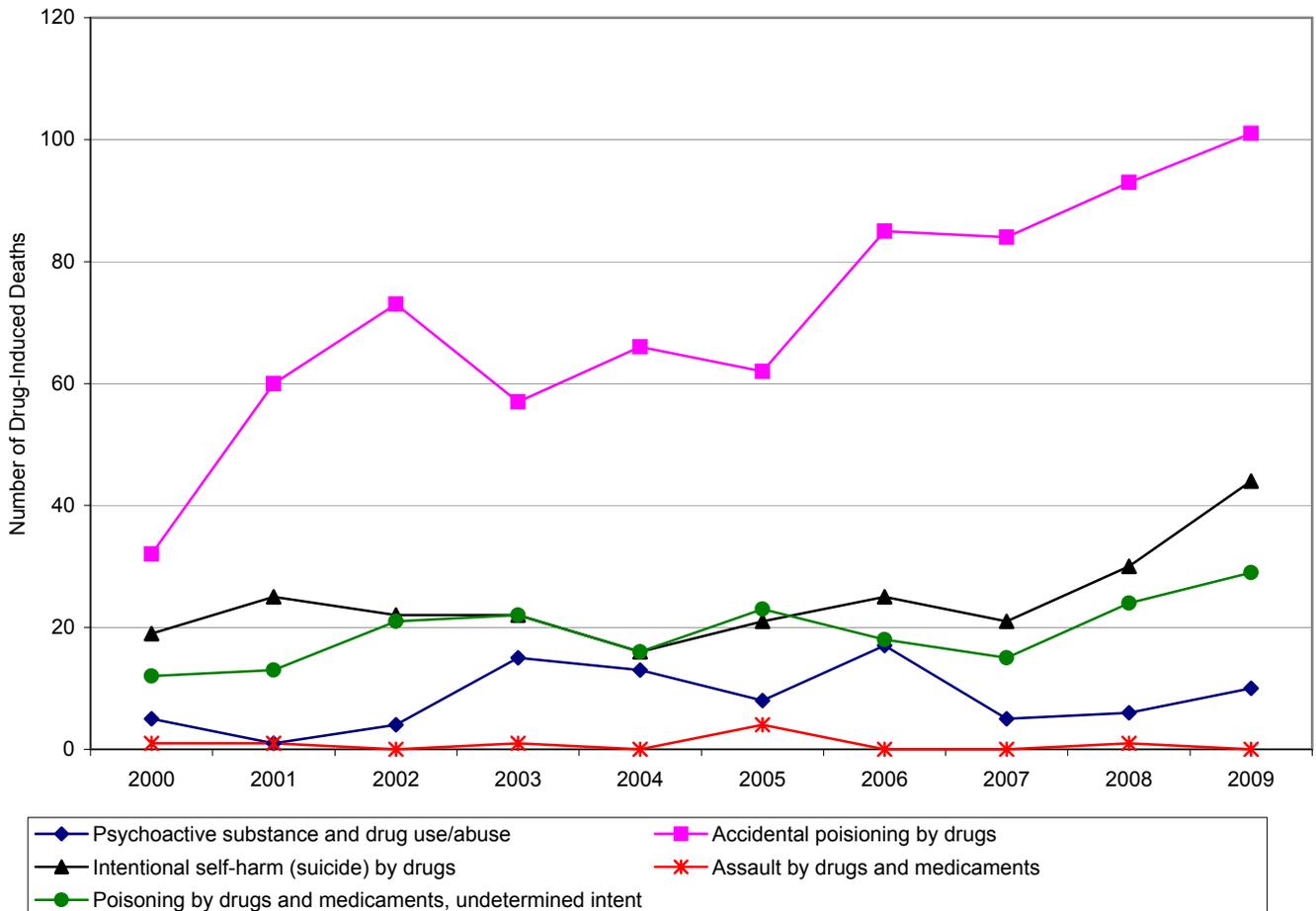


TABLE 4
U.S. and Idaho Resident
Comparison of Drug-Induced and Alcohol-Induced Deaths and Death Rates
Ten-Year Trend 2000-2009

	Total	Year of Death									
		2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Idaho	Number	69	100	120	117	111	119	145	125	154	184
	Rate	5.3	7.6	8.9	8.6	8.0	8.3	9.9	8.3	10.1	11.9
Alcohol-Induced	Number	107	122	125	134	116	135	128	151	174	166
	Rate	8.3	9.2	9.3	9.8	8.3	9.4	8.7	10.1	11.4	10.7
U.S.	Number	19,719	21,705	26,040	28,721	30,711	33,541	38,396	38,371	NA	NA
	Rate	7.0	7.6	9.0	9.9	10.5	11.3	12.8	12.7	NA	NA
Alcohol-Induced	Number	19,643	20,114	20,218	20,687	21,081	21,634	22,073	23,199	NA	NA
	Rate	7.0	7.1	7.0	7.1	7.2	7.3	7.4	7.7	NA	NA

CHART 5
U.S. and Idaho Resident
Drug-Induced Death Rates
Ten-Year Trend 2000-2009

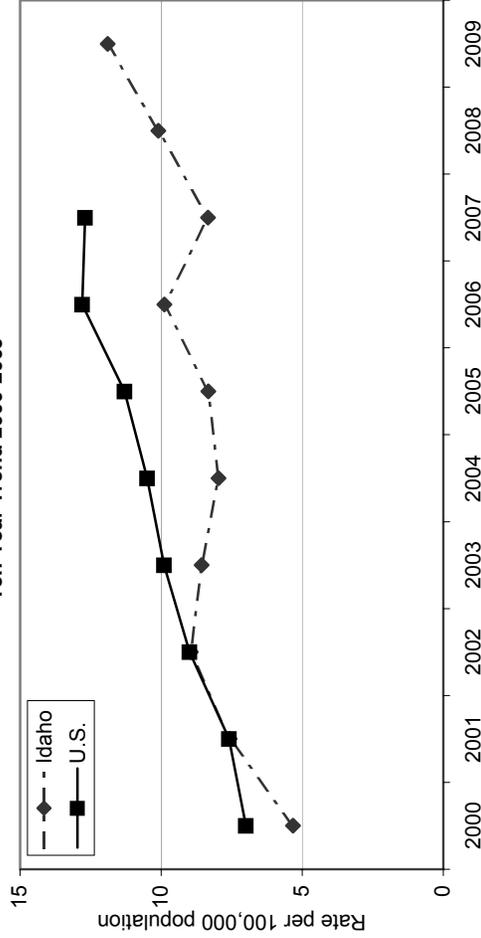
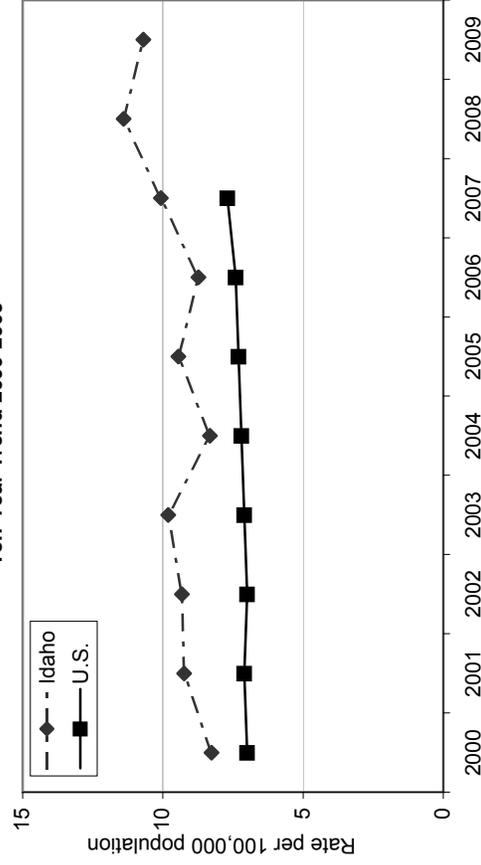


CHART 6
U.S. and Idaho Resident
Alcohol-Induced Death Rates
Ten-Year Trend 2000-2009



Special note: Alcohol and drug-induced deaths are mutually exclusive categories and are provided here only for comparison.

Drug-induced 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, medications, and biologicals; intentional self-poisoning (suicide) by drugs, medications, and biologicals; assault (homicide) by poisoning by drugs, medications, and biologicals, and other causes indirectly related to drug use. Also excluded are newborn deaths associated with mother's drug use.

Alcohol-Induced ICD-10 codes: E24.4, F10, G31.2, G62.1, G72.1, I42.6, K29.2, K70, K85.2, K86.0, R78.0, X45, X65, and Y15. Alcohol-induced deaths include mental and behavioral disorders due to alcohol use, degeneration of nervous system due to alcohol, alcoholic polyneuropathy, alcoholic cardiomyopathy, alcoholic gastritis, alcoholic liver disease, findings of alcohol in blood, accidental poisoning by and exposure to alcohol, intentional self-poisoning (suicide) by and exposure to alcohol, and poisoning by and exposure to alcohol, undetermined intent. Alcohol-induced deaths do not include accidents such as falls and motor vehicle crashes, homicides, and other causes indirectly related to alcohol use. This category also excludes newborn deaths associated with maternal alcohol use.

TABLE 5
Drug-Induced Deaths
Three-Year Aggregate Idaho Residents (2007-2009), United States Residents (2006)

CAUSE OF DEATH	ICD-10 CODE	IDAHO			UNITED STATES		
		Number	Rate ¹	Percent	Number	Rate ¹	Percent
Total Drug-Induced Deaths	Footnote 2	463	10.1	100.0%	38,396	12.8	100.0
Total Psychoactive Substance and Drug Use/Abuse	Footnote 3	21	0.5	4.5	3,953	1.3	10.3
Mental and behavioral disorders due to use of tobacco	Footnote 4	13	0.3	2.8	1,200	0.4	3.1
Mental and behavioral disorders due to other drugs	Footnote 5	8	0.2	1.7	2,753	0.9	7.2
Accidental (Unintentional Injury) Poisoning by Drugs	X40-X44	278	6.1	60.0	26,400	8.8	68.8
Nonopioid analgesics, antipyretics, and antirheumatics	X40	4	0.1	0.9	246	0.1	0.6
Antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs, not elsewhere classified	X41	24	0.5	5.2	1,486	0.5	3.9
Narcotics and psycholeptics (hallucinogens), not elsewhere classified	X42	77	1.7	16.6	13,302	4.4	34.6
Other drugs acting on the autonomic nervous system	X43	1	**	0.2	16	**	**
Other and unspecified drugs, medicaments, and biological substances	X44	172	3.8	37.1	11,350	3.8	29.6
Intentional Self-Harm (Suicide) by Drugs	X60-X64	95	2.1	20.5	4,571	1.5	11.9
Nonopioid analgesics, antipyretics, and antirheumatics	X60	-	**	**	200	0.1	0.5
Antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs, not elsewhere classified	X61	10	0.2	2.2	946	0.3	2.5
Narcotics and psycholeptics (hallucinogens), not elsewhere classified	X62	8	0.2	1.7	678	0.2	1.8
Other drugs acting on the autonomic nervous system	X63	-	**	**	17	**	**
Other and unspecified drugs, medicaments, and biological substances	X64	77	1.7	16.6	2,730	0.9	7.1
Assault (Homicide) by Drugs, Medicaments, and Biological Substances	X85	1	**	0.2	75	**	0.2
Undetermined Intent Poisoning by Drugs	Y10-Y14	68	1.5	14.7	3,379	1.1	8.8
Nonopioid analgesics, antipyretics, and antirheumatics	Y10	1	**	0.2	69	**	0.2
Antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs, not elsewhere classified	Y11	5	0.1	1.1	280	0.1	0.7
Narcotics and psycholeptics (hallucinogens), not elsewhere classified	Y12	12	0.3	2.6	1,574	0.5	4.1
Other drugs acting on the autonomic nervous system	Y13	-	**	**	7	**	**
Other and unspecified drugs, medicaments, and biological substances	Y14	50	1.1	10.8	1,449	0.5	3.8
Other Drug-Related Deaths	Footnote 6	-	**	**	18	**	**

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.

TABLE 6
Idaho Resident Drug-Induced Deaths
by Place of Death (In Idaho and Out of State) and Year
2007-2009

IDAHO RESIDENT DEATHS	TOTAL		2007		2008		2009	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total Drug-Induced Deaths to Idaho Residents	463	100.0%	125	100.0%	154	100.0%	184	100.0%
Deaths Occurring Out of State	22	4.8	5	4.0	11	7.1	6	3.3
Deaths Occurring In Idaho	441	95.2	120	96.0	143	92.9	178	96.7

TABLE 7A
Idaho Resident Drug-Induced Deaths
Number by Place of Death and Average-Annual Rate by District of Residence
Three-Year Aggregate 2007-2009

IDAHO RESIDENT DEATHS	TOTAL	DISTRICT OF RESIDENCE						
		1	2	3	4	5	6	7
Total Drug-Induced Deaths to Idaho Residents	463	64	24	71	146	45	63	50
Number of Deaths Occurring Out of State	22	9	2	4	3	1	3	-
Number of Deaths Occurring In Idaho	441	55	22	67	143	44	60	50
Average-Annual Death Rate ¹	10.1	10.1	7.8	9.5	11.4	8.5	12.8	8.6

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

TABLE 7B
Idaho Resident Drug-Induced Deaths
Percent by Place of Death and District of Residence
Three-Year Aggregate 2007-2009

IDAHO RESIDENT DEATHS	TOTAL	DISTRICT OF RESIDENCE						
		1	2	3	4	5	6	7
Percent of Deaths Occurring Out of State	4.8%	14.1%	8.3%	5.6%	2.1%	2.2%	4.8%	-
Percent of Deaths Occurring In Idaho	95.2%	85.9%	91.7%	94.4%	97.9%	97.8%	95.2%	100.0%

MAP 1
Idaho Resident Drug-Induced Deaths
Crude Rate by District of Residence
Three-Year Aggregate: 2007-2009
State Rate 2007-2009: 10.1 National Rate 2007: 12.7

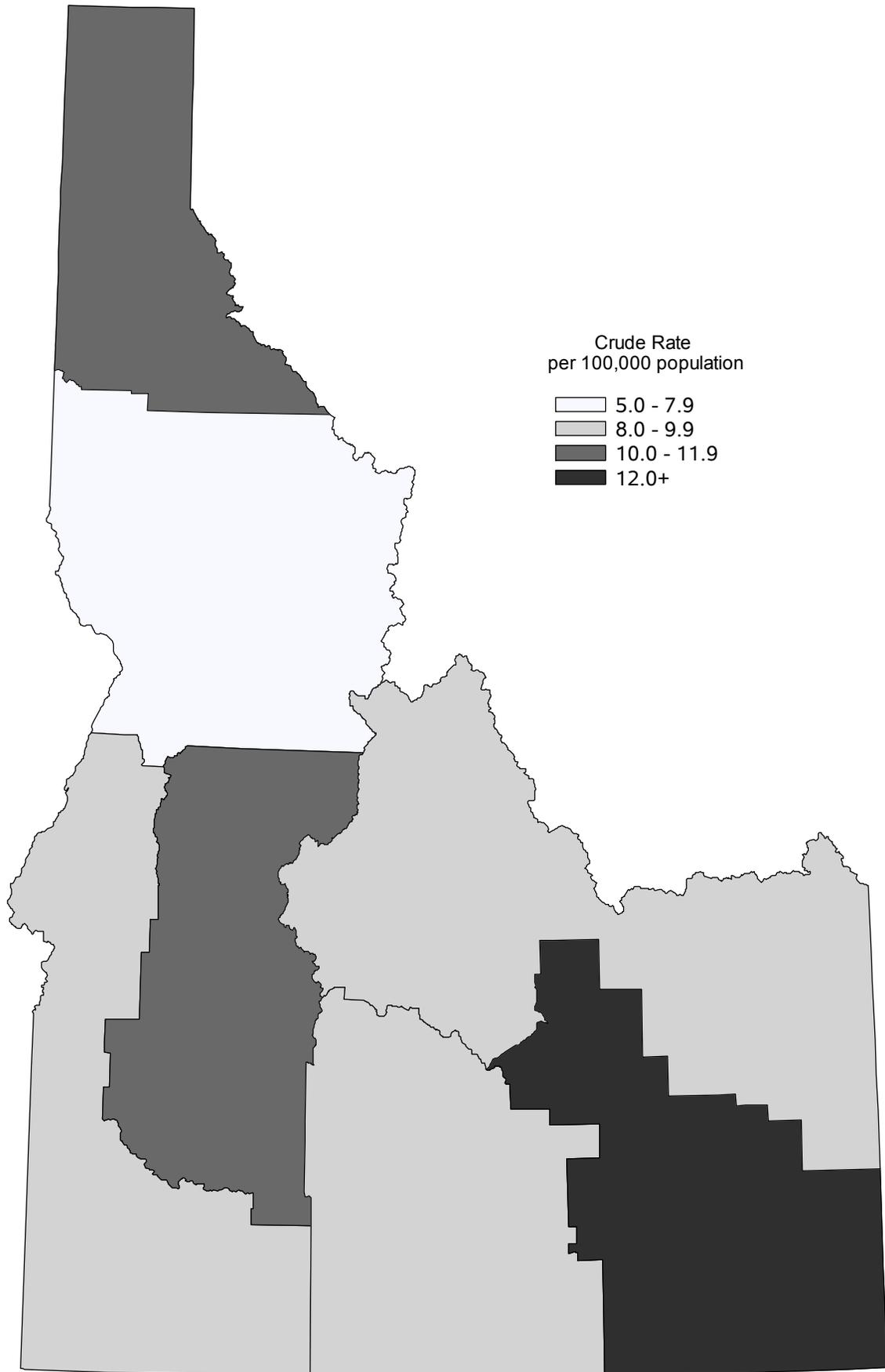
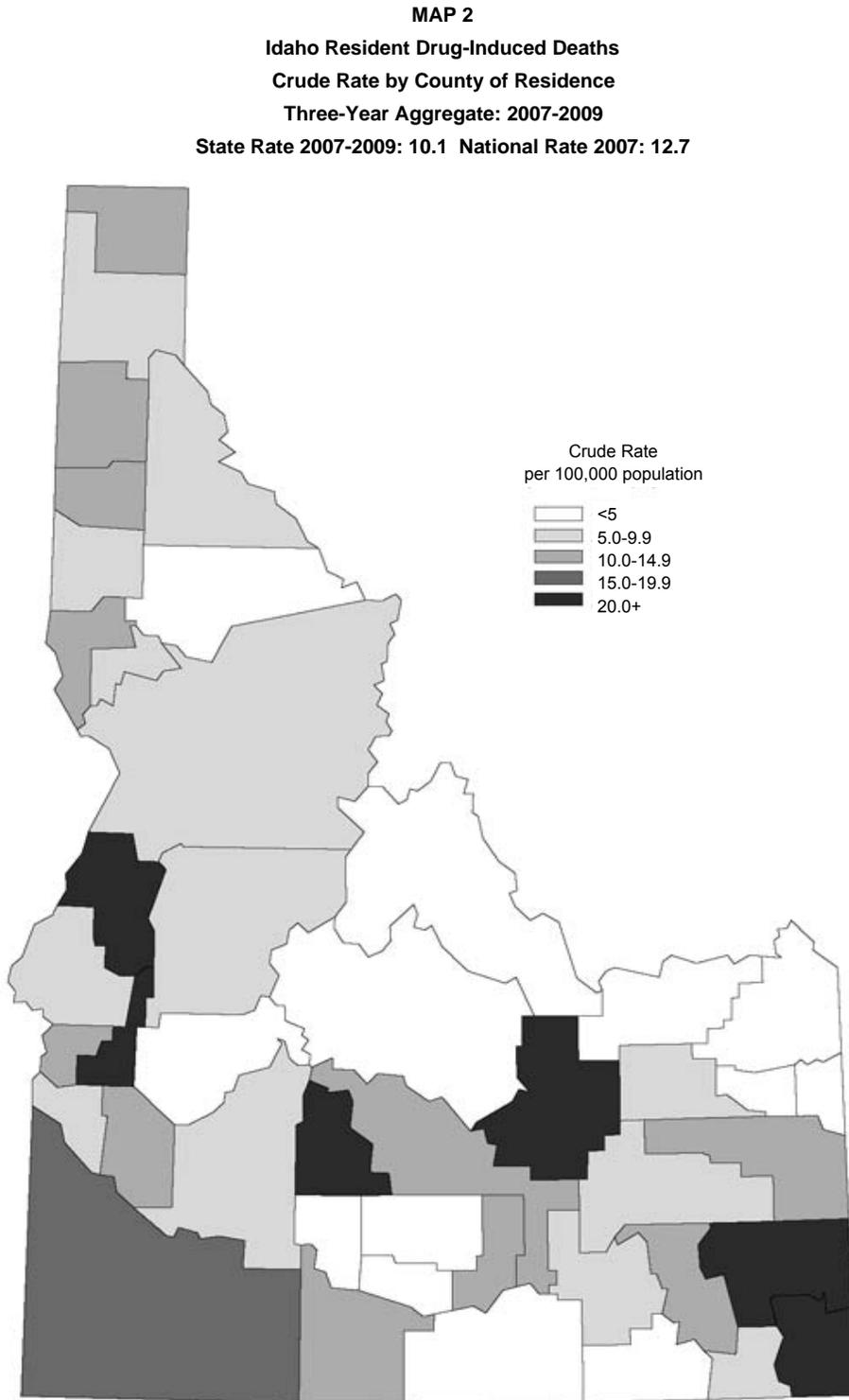


TABLE 8
Idaho Resident Drug-Induced
Deaths and Death Rates
by County of Residence
Three-Year Aggregate 2007-2009

		Total	Rate
IDAHO TOTAL		463	10.1
District 1	Benewah	3	10.7
	Bonner	9	7.3
	Boundary	4	12.2
	Kootenai	45	10.9
	Shoshone	3	7.7
District 2	Clearwater	1	4.1
	Idaho	4	8.6
	Latah	6	5.6
	Lewis	1	9.3
	Nez Perce	12	10.3
District 3	Adams	3	28.6
	Canyon	38	6.9
	Gem	13	26.2
	Owyhee	6	18.4
	Payette	8	11.6
	Washington	3	9.8
District 4	Ada	139	12.2
	Boise	-	-
	Elmore	5	5.7
	Valley	2	7.5
District 5	Blaine	7	10.7
	Camas	1	29.6
	Cassia	1	1.6
	Gooding	2	4.7
	Jerome	3	4.9
	Lincoln	-	-
	Minidoka	6	10.7
	Twin Falls	25	11.2
District 6	Bannock	36	14.8
	Bear Lake	4	23.0
	Bingham	12	9.1
	Butte	2	24.2
	Caribou	5	24.4
	Franklin	2	5.4
	Oneida	-	-
	Power	2	8.7
District 7	Bonneville	41	13.8
	Clark	-	-
	Custer	-	-
	Fremont	1	2.7
	Jefferson	4	5.6
	Lemhi	1	4.3
	Madison	2	1.8
	Teton	1	3.8



Some rates are based on small numbers; caution must be exercised when attempting to draw conclusions. It is recommended to show the number of deaths with the rate.

TABLE 9
Idaho Resident Drug-Induced Deaths
Number, Rate, and Percent by Age Group, Gender and Cause of Death
2007-2009

IDAHO RESIDENT DRUG-INDUCED DEATHS	TOTAL			YEAR		
	Number	Rate	Percent	2007	2008	2009
Total	463	10.1	100.0%	125	154	184
by Age Group						
<35	113	7.0	24.4	32	35	46
35-44	104	17.9	22.5	25	34	45
45-54	152	24.3	32.8	49	44	59
55-64	65	13.0	14.0	13	30	22
65+	29	5.3	6.3	6	11	12
by Gender						
Female	237	10.4	51.2	64	71	102
Male	226	9.8	48.8	61	83	82
by Cause of Death						
Drug use/abuse	21	0.5	4.5	5	6	10
Accidental poisoning by drugs	278	6.1	60.0	84	93	101
Intentional self-harm by drugs	95	2.1	20.5	21	30	44
Assault by drugs	1	*	0.2	-	1	-
Undetermined	68	1.5	14.7	15	24	29

Rate: number of deaths per 100,000; rate for <35 age group is based on 10 to 34 year-old population. *Rate less than 0.0 per 100,000.

CHART 7
Idaho Resident Drug-Induced Death Rates
by Age Group
Three-Year Aggregate 2007-2009

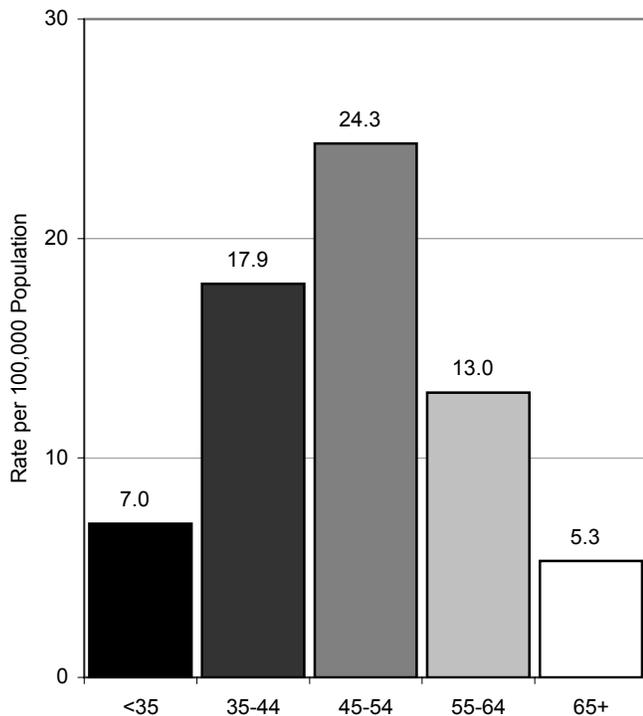
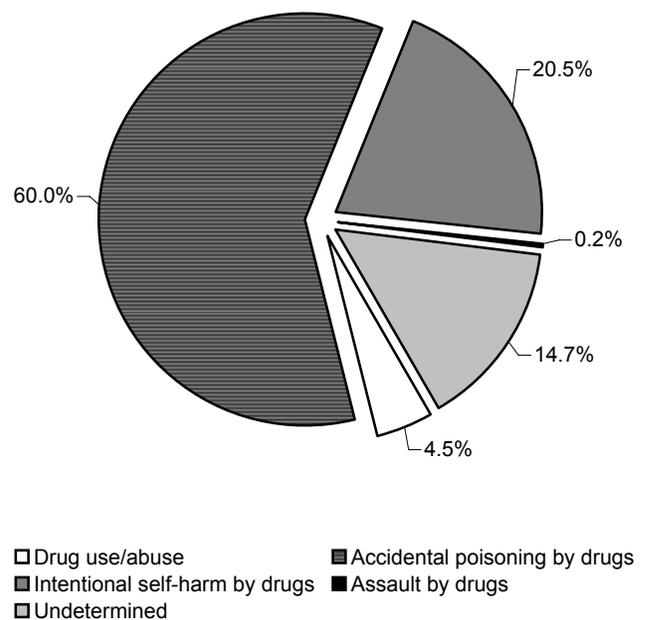


CHART 8
Idaho Resident Drug-Induced Deaths
Percent by Cause of Death
Three-Year Aggregate 2007-2009



DRUG-INDUCED DEATHS OCCURRING IN IDAHO

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 deaths occurring in Idaho only.

HIGHLIGHTS

- A total of 456 drug-induced deaths occurred in Idaho from 2007 to 2009.
- During this time, certifiers reported 626 drug-related substances on the death certificate as contributing to the death.
- The total number of drug-induced deaths increased 47.6 percent from 2007 to 2009.
- From 2007 to 2009, 57.5 percent of drug-induced deaths listed a narcotic or psychodysleptic (hallucinogen) as contributing to the death (See table 10A for a full list of drugs included in this category).
- The most common substances listed on the death certificate among those who died in Idaho were:
 - hydrocodone (68 deaths)
 - antidepressants (65 deaths)
 - methadone (54 deaths)
- More than 40 percent (184 out of 456 deaths) did not list a specific drug, medicament, or biological substance as contributing to the drug-induced death.
- Of the 456 drug-induced deaths occurring in Idaho from 2007 to 2009, 65 also listed alcohol on the death certificate.

TABLE 10A
Drug-Induced Deaths Occurring in Idaho
Substances Mentioned on Death Certificate by Year
2007-2009

SUMMARY OF SUBSTANCES MENTIONED ON DEATH CERTIFICATE	TOTAL		YEAR		
	Number	Percent	2007	2008	2009
Total Drug-Induced Deaths Occurring in Idaho	456	100.0%	124	149	183
Number of Substances Listed on Death Certificates*	626	-	169	224	233
Total Nonopioid Analgesics, Antipyretics, and Antirheumatics	7	1.5	1	3	3
Salicylates/Acetylsalicylic (aspirin)	1	0.2	1	-	-
Other (inc. 4-aminophenol, NSAID, pyrazolone)	6	1.3	-	3	3
Total Antiepileptic, Sedative-Hypnotic, Antiparkinsonism, and Psychotropic	225	49.3	55	76	94
Amphetamine	2	0.4	1	-	1
Antidepressants	65	14.3	13	27	25
Antipsychotics	17	3.7	3	7	7
Barbiturates	1	0.2	-	1	-
Benzodiazepine	60	13.2	15	23	22
Gamma-hydroxybutyrate (GHB)	-	-	-	-	-
Methamphetamine	25	5.5	10	1	14
Muscle relaxants	23	5.0	6	8	9
Other (inc. antianxiety, antitussive, sedatives, tranquilizers, etc.)	32	7.0	7	9	16
Total Narcotics and Psychodysleptics (hallucinogens)	262	57.5	81	99	82
Cannabis (Marijuana)	2	0.4	-	1	1
Cocaine	2	0.4	1	1	-
Codeine	4	0.9	2	1	1
Heroin	6	1.3	3	1	2
Hydrocodone / Hydrocodone and Acetaminophen combinations	68	14.9	19	28	21
Methadone	54	11.8	22	15	17
Morphine	28	6.1	10	11	7
Oxycodone / Oxycontin	43	9.4	7	20	16
Other (inc. LSD, mescaline, opium/alkaloids)	47	10.3	14	17	16
Drug overdose of narcotic drug(s), narcotic drug(s) not listed	8	1.8	3	4	1
Other Known (named), Medicaments, and Biological Substances	55	12.1	11	22	22
Antihistamines	36	7.9	6	16	14
Other (inc. antiemetics, antihypertensive, insulin, anticonvulsant, etc.)	19	4.2	5	6	8
Alcohol in combination with a drug(s)	65	14.3	20	23	22
Tobacco Use	12	2.6	1	1	10

* Each death certificate may list one or more specific substance(s) or no specific substance. Records with no specific substances listed are no longer included in the total for substances listed on death certificate. Percentage of deaths with substances will not sum to 100 percent. This data table is no longer comparable to previously published drug-induced death reports.

TABLE 10B
Drug-Induced Deaths Occurring in Idaho
Deaths with No Specific Substances Listed on Death Certificate by Year
2007-2009

	TOTAL		YEAR		
	Number	Percent	2007	2008	2009
Total Drug-Induced Deaths Occurring in Idaho	456	100.0%	124	149	183
Specific Drug, Medicament, or Biological Substance Not Listed	184	40.4	48	61	75
Drug use/overdose, no mention of type of drug(s)	89	19.5	20	37	32
Drug use/overdose of pain medication(s), pain medication(s) not listed	3	0.7	1	2	-
Drug use/overdose of prescription drug(s), prescription drug(s) not listed	92	20.2	27	22	43

See Technical Notes for additional information.

TABLE 11A
Drug-Induced Deaths Occurring in Idaho
Substances Mentioned on Death Certificate by District of Occurrence
2007-2009

SUMMARY OF SUBSTANCES MENTIONED ON DEATH CERTIFICATE	TOTAL	DISTRICT OF OCCURRENCE						
		1	2	3	4	5	6	7
Total Drug-Induced Deaths Occurring in Idaho	456	62	24	58	154	44	63	51
Substances Listed on Death Certificates*	626	146	20	58	304	58	15	25
Total Nonopioid Analgesics, Antipyretics, and Antirheumatics	7	2	-	1	3	-	-	1
Salicylates/Acetylsalicylic (aspirin)	1	-	-	1	-	-	-	-
Other (inc. 4-aminophenol, NSAID, pyrazolone)	6	2	-	-	3	-	-	1
Total Antiepileptic, Sedative-Hypnotic, Antiparkinsonism, and Psychotropic	225	63	3	21	116	15	2	5
Amphetamine	2	-	-	-	1	1	-	-
Antidepressants	65	21	2	4	32	6	-	-
Antipsychotics	17	5	-	3	7	1	-	1
Barbiturates	1	-	-	-	-	1	-	-
Benzodiazepine-Not Otherwise Stated	60	13	-	7	39	-	-	1
Gamma-hydroxybutyrate (GHB)	-	-	-	-	-	-	-	-
Methamphetamine	25	2	1	3	12	4	1	2
Muscle relaxants	23	13	-	-	10	-	-	-
Other (inc. antianxiety, antitussive, sedatives, tranquilizers, etc.)	32	9	-	4	15	2	1	1
Total Narcotics and Psychodysleptics (hallucinogens)	262	43	12	26	134	30	5	12
Cannabis (Marijuana)	2	1	-	-	-	1	-	-
Cocaine	2	-	-	1	1	-	-	-
Codeine	4	-	-	-	4	-	-	-
Heroin	6	-	-	1	5	-	-	-
Hydrocodone / Hydrocodone and Acetaminophen combinations	68	13	1	11	35	6	-	2
Metadone	54	7	3	8	28	2	2	4
Morphine	28	5	3	-	12	5	1	2
Oxycodone / Oxycontin	43	6	-	1	29	6	-	1
Other (inc. LSD, mescaline, opium/alkaloids)	47	10	1	4	19	9	2	2
Drug overdose of narcotic drug(s), narcotic drug(s) not listed	8	1	4	-	1	1	-	1
Other Known (named), Medicaments, and Biological Substances	55	19	-	3	26	4	2	1
Antihistamines	36	12	-	2	18	2	1	1
Other (inc. antiemetics, antihypertensive, insulin, anticonvulsant, etc.)	19	7	-	1	8	2	1	-
Alcohol in combination with a drug(s)	65	15	3	5	25	6	5	6
Tobacco Use	12	4	2	2	-	3	1	-

* Each death certificate may list one or more specific substance(s) or no specific substance. Records with no specific substances listed are no longer included in the total for substances listed on death certificate. Percentage of deaths with substances will not sum to 100 percent. This data table is no longer comparable to previously published drug-induced death reports.

TABLE 11B
Drug-Induced Deaths Occurring in Idaho
Substances Mentioned on Death Certificate by District of Occurrence
2007-2009

SUMMARY OF SUBSTANCES MENTIONED ON DEATH CERTIFICATE	TOTAL	DISTRICT OF OCCURRENCE						
		1	2	3	4	5	6	7
Total Drug-Induced Deaths Occurring in Idaho	456	62	24	58	154	44	63	51
Specific Drug, Medicament, or Biological Substance Not Listed	184	18	10	35	19	14	54	34
Drug use/overdose, no mention of type of drug(s)	89	15	3	8	12	5	34	12
Drug use/overdose of pain medication(s), pain medication(s) not listed	3	-	-	2	-	-	1	-
Drug use/overdose of prescription drug(s), prescription drug(s) not listed	92	3	7	25	7	9	19	22

See Technical Notes for additional information.

CHART 9
Drug-Induced Deaths Occurring in Idaho
Total Number of Drug-Induced Deaths versus Deaths Where No Specific Substance Listed
by Year
2007-2009

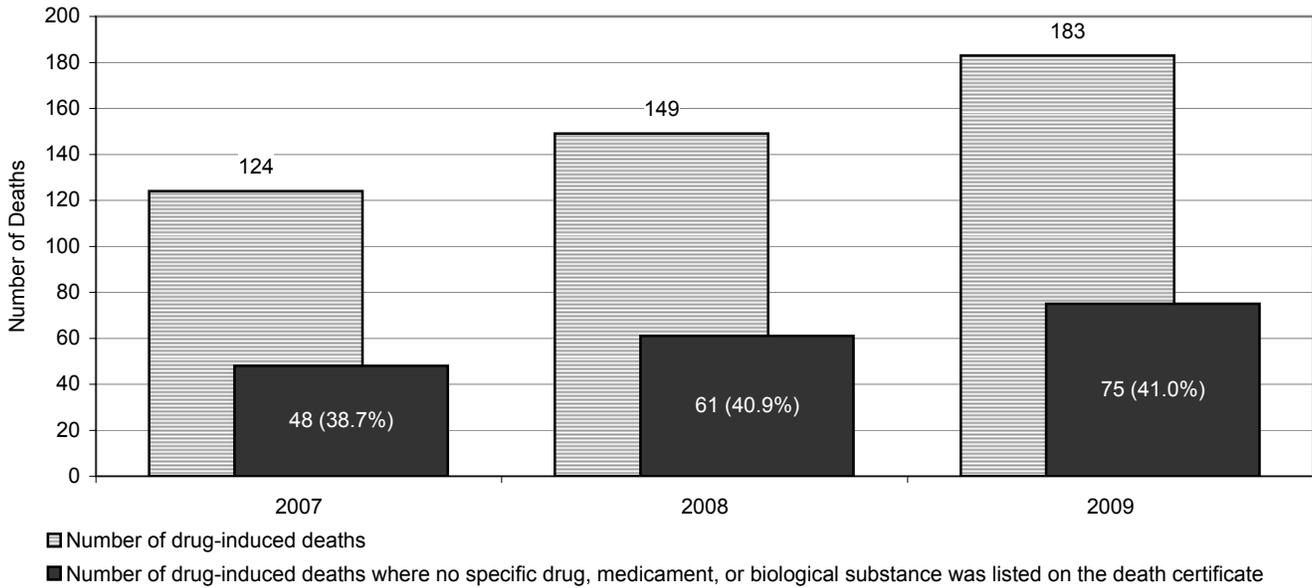
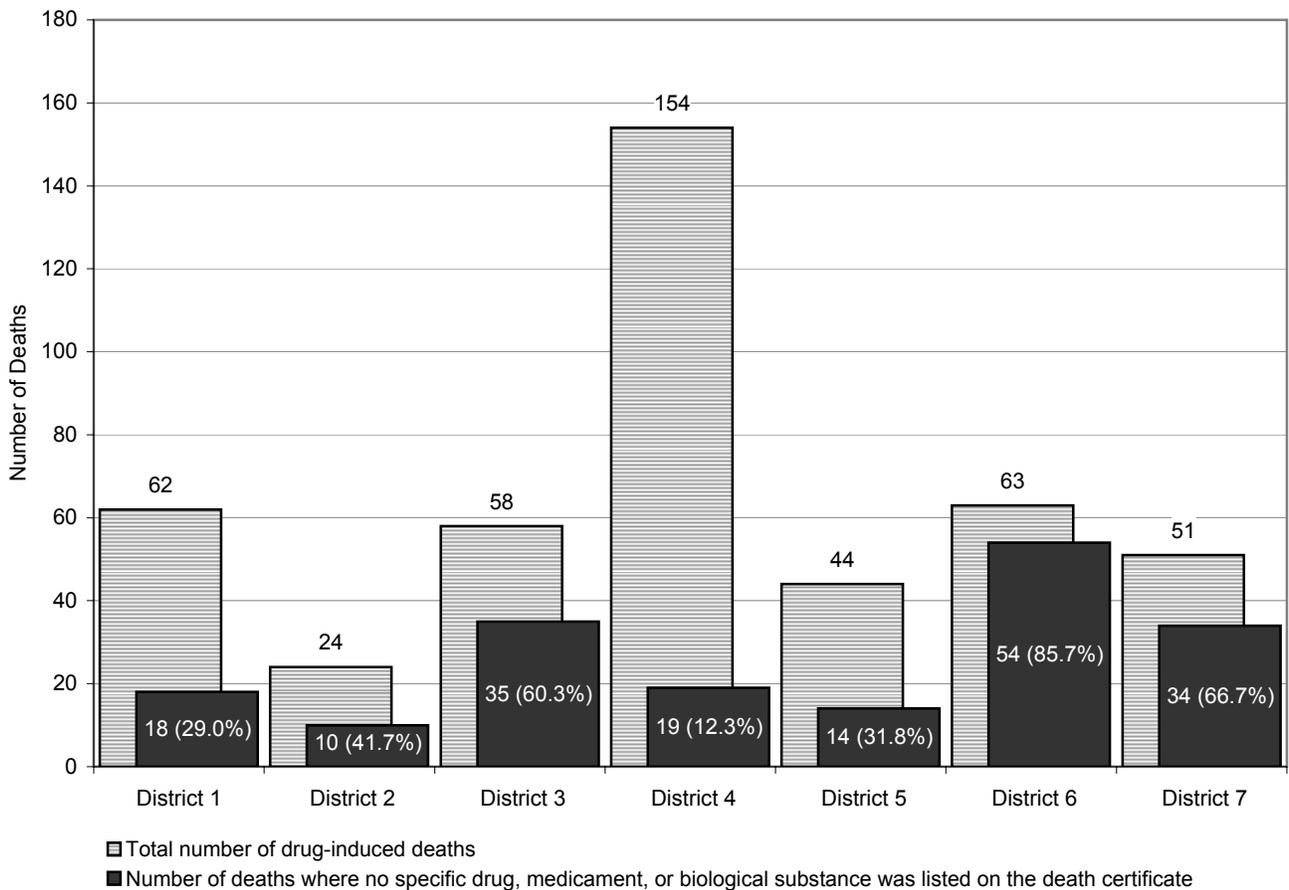


CHART 10
Drug-Induced Deaths Occurring in Idaho
Total Number of Drug-Induced Deaths versus Deaths Where No Specific Substance Listed
by District of Occurrence
Three-Year Aggregate 2007-2009



Note: Percentage in parentheses is the percent of total drug-induced deaths where no specific drug, medicament, or biological substance was listed on the death certificate.

Technical Notes Drug-Induced Deaths

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 behavioral 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 of deaths occurring in Idaho are shown on pages 13-16.

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	Dextromethomorphan	Unisom
Buspirone	Meprobamate	Zolpidem/Zilpidem
Cymbalta	Sleeping pills	

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	Orphenadrine
Insulin	Verapamil

*Only includes those substances listed on an Idaho death certificate in 2007, 2008 and 2009.

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 (03/2011).

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.	Ventricular Fibrillation to Asystole DUE TO (or as a consequence of):	Years
b.	Chronic Hepatic Failure DUE TO (or as a consequence of):	Years
c.	Substance Abuse DUE TO (or as a consequence of):	Years
d.		
<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.) 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 (Poisoning by and exposure to other and unspecified drugs, medicaments, and biological substances, undetermined intent).

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.	Narcotic overdose DUE TO (or as a consequence of):	36 hours
b.	Benzodiazepine overdose DUE TO (or as a consequence of):	36 hours
c.	Tricyclic antidepressant overdose DUE TO (or as a consequence of):	36 hours
d.		
<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.) 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 (Accidental poisoning by and exposure to other and unspecified drugs, medicaments, and biological substances).

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>	

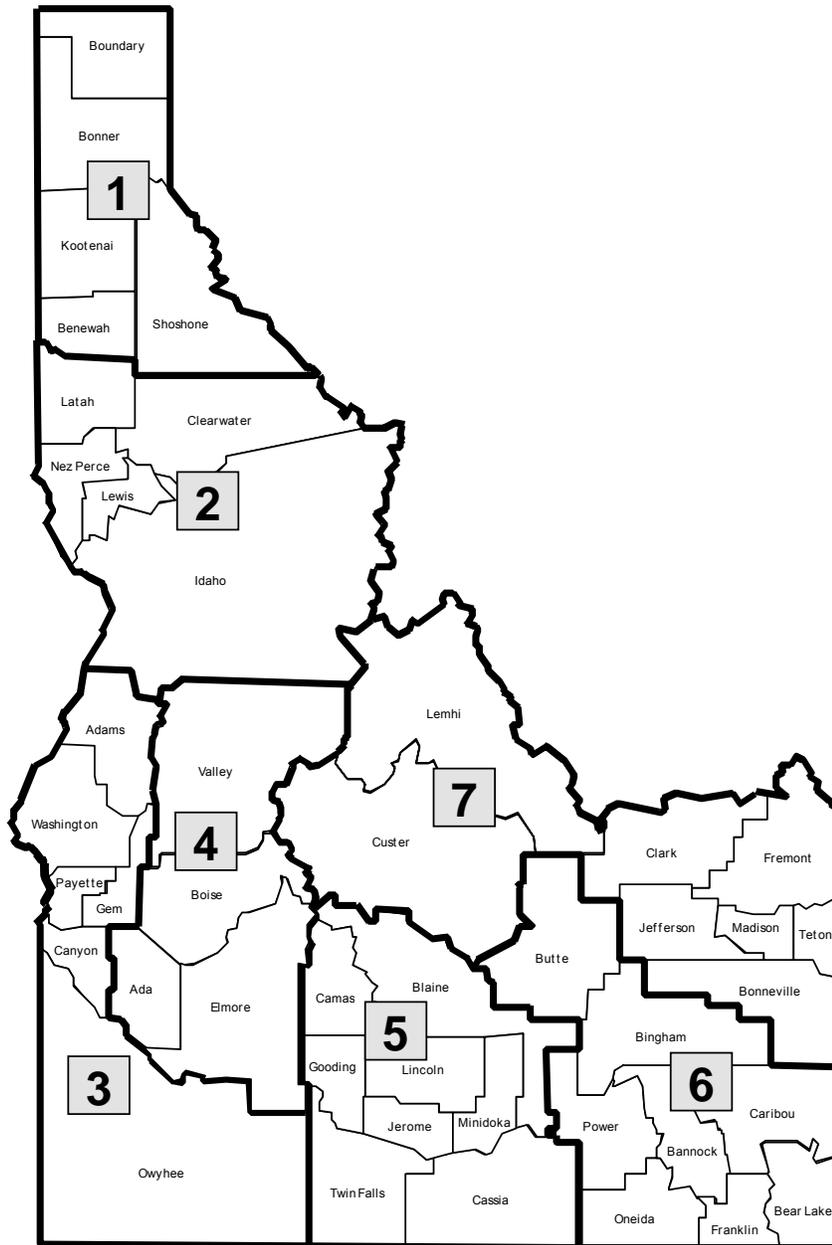
INTENTIONAL SELF-HARM (SUICIDE) EXAMPLE

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 (Intentional self-poisoning (suicide) by and exposure to other and unspecified drugs, medicaments, and biological substances).

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>	

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