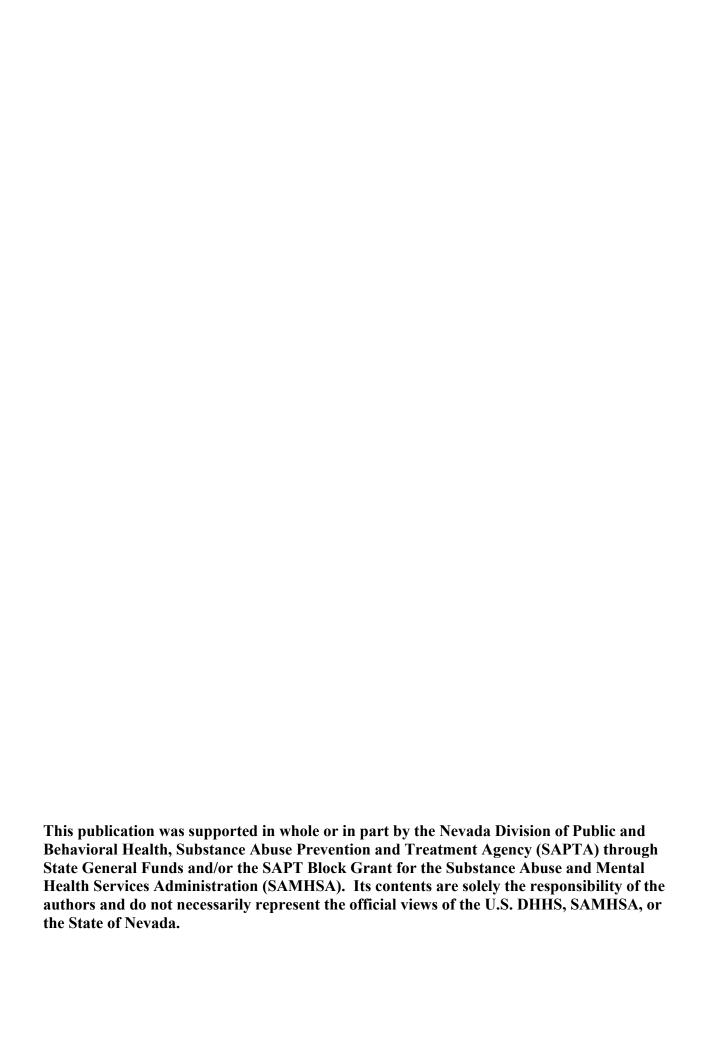


Clark County Substance Related Deaths 2013Data from the Office of the Clark County Coroner/Medical Examiner



Office of the Coroner/Medical Examiner



1704 Pinto Lane · Las Vegas NV 89106

(702) 455-3210 · Administration Fax: (702) 455-0416 · Investigations Fax: (702) 455-3101

P. Michael Murphy, Coroner · John Fudenberg, Assistant Coroner

Medical Examiners

Lary Simms, DO · Alane Olson, MD · Lisa Gavin, MD · Timothy Dutra, MD

March 16, 2015

To: Nevada's Substance Abuse Prevention and Treatment Agency (SAPTA), of the

Nevada Mental Health and Developmental Services Division

The responsibility of determining the cause and manner of unexpected deaths in Clark County, Nevada is one that the Clark County Office of the Coroner/Medical Examiner (CCOCME) staff takes very seriously. While many regard the CCOCME as being primarily concerned with the circumstances surrounding the end of life, our office is equally concerned with the preservation of life.

In 2013, there were 15,265 deaths in Clark County. The Coroner/Medical Examiner's Office was contacted regarding 12,197 of these deaths of which 3,568 required a complete medicolegal death investigation and 3,395 deaths required a forensic examination performed by a Forensic Pathologist. The results of these investigations provide valuable information, which is used by public health personnel, the criminal justice system, families of the deceased, and other concerned parties.

Substance use and abuse continues to be more prevalent nationally as well as in Clark County with a total of 894 deaths in 2013 determined to be substance use or abuse related. There were between 1 to 14 different substances and/or compounds discovered in toxicological analyses in the substance-related deaths. The most rapidly growing segment of our population consists of people over the age of sixty whom on average are taking about 8 different prescriptions daily. During the past 10 years, CCOCME observed a 700% increase of accidental prescription and alcohol related deaths of individuals over the age of 60 years. Substance abuse and misuse of prescription drugs affects over 15% of our aging population, and the substance abuse problems is expected to double by 2020.

On behalf of the Clark County Office of the Coroner/Medical Examiner, I would like to thank SAPTA, SAMHSA Center for Substance Abuse Prevention, and Coop Consulting, Inc. for their support of the CCOCME by providing this valuable information to the citizens and stakeholders of Nevada. It is my pleasure to present *Clark County Substance Related Deaths 2013*.

Respectively,

P. Michael Murphy, Coroner

BOARD OF COUNTY COMMISSIONERS

Clark County Substance Related Deaths 2013

Data from the Clark County Office of the Coroner/Medical Examiner

Table of Contents

| Introduction | |
|--|----|
| All Substance Related Deaths | 4 |
| Substance Related Accident Deaths | 7 |
| Substance Related Natural Deaths | 11 |
| Substance Related Suicide Deaths | 13 |
| Substance Related Undetermined Deaths | 17 |
| Special Populations - Substance Related Deaths | 19 |
| Veterans | |
| Homeless | |
| Gender | 25 |
| Marital Status | 29 |
| Age Groups | 34 |
| Toxicology Findings | 39 |
| Conclusion | 48 |
| Appendix A | |
| Toxicology Screen Findings | 49 |
| Appendix B | |
| Toxicology Glossary | 53 |

Introduction

Clark County Substance Related Deaths 2013 is a publication of Nevada's Substance Abuse Prevention and Treatment Agency (SAPTA), of the Nevada Division of Public and Behavioral Health. SAPTA coordinates the Statewide Epidemiological Workgroup (SEW), which represents multiple Nevada stakeholders and agencies to focus on how data can be used for planning and accountability related to the impact of substance use across the state. The SEW uses multiple data sources to construct an annual profile of substance use in Nevada, and to bring attention to trends and emerging substance use patterns in the state.

The population estimate for Nevada State in July 2013 was 2,790,136; of this approximately 73% (2,027,868 Nevadans) reside in Clark County (U.S. Census, 2013 Population Estimates American Fact Finder). This publication uses data from deaths that occurred in 2011, 2012 and 2013 in Clark County. The data were obtained from the Office of the Clark County Coroner/Medical Examiner, and represent only incidents "processed" by the Coroner's Office, of deaths that occurred within Clark County. The Clark County Coroner's Office handles other incidents that occurred in nearby counties that are not included in this report. This comprehensive report focuses on 2013 data with comparisons of 2011 and 2012 data.

This report was supported by SAPTA through funding from the Center for Substance Abuse Prevention (CSAP), a division of the Substance Abuse and Mental Health Services Administration (SAMHSA). Coop Consulting, Inc., a research and evaluation firm that provides program support to the SEW, created this report with the assistance of William Gazza, J.D., M.F.S. (Coroner Investigative Forensic Supervisor) and the Office of the Clark County Coroner/Medical Examiner.

The Office of the Clark County Coroner/Medical Examiner's initial database contained data for natural alcohol related deaths*, all suicide deaths, accident deaths including alcohol related, alcohol and drug related, alcohol and medication, drug related, inhalant related, medication and motor vehicle deaths, and undetermined deaths including alcohol related, alcohol drug related, drug related and medication deaths. There were originally 7,800 entries (1097 unique cases). There were multiple entries for most cases, as each toxicology screen substance was listed as a separate entry.

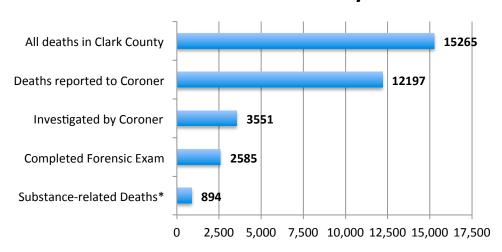
The database was culled to 894 unique deaths. These cases include all incidents that occurred in Clark County, Nevada that involve alcohol, drugs, or medication between January 1, 2013 and December 31, 2013. Some deaths labeled as medication related deaths in this report may not have been caused by medication misuse or overdose. For example, some toxicology screens found legal medications in the deceased. These medications may not have been lethal and could have been taken as directed or in some cases administered by a hospital.

^{*}Natural deaths are those who died due to natural consequences (not in an accident or suicide). Natural alcohol related deaths are deaths caused by liver disease, pancreatitis, hepatic failure or other similar alcohol related consequences.

Deaths included in this Report

This report includes a selection of deaths that are substance-related. In 2013, there were 15,265 deaths in Clark County, Nevada; 79.9% of these deaths (n=12,197) were reported to the Office of the Clark County Coroner/Medical Examiner; 29.1% of the deaths reported to the Office of the Clark County Coroner/Medical Examiner (n= 3,551) were investigated by the Coroner; of those deaths investigated 72.8% had a forensic exam (i.e. autopsies, medical examinations, and head posts; n=2,585); and 34.6% of the deaths that had a forensic exam are included in this report as substance-related deaths (n=894).

Deaths in Clark County



^{*}Deaths that are included in this report

The Office of the Clark County Coroner/Medical Examiner investigates deaths based on the legal authority of statutory obligation, which functions under two statues; the Nevada Revised Statutes (NRS) and the Clark County NV Code:

NRS 259.050 Investigation into cause of death; inquest.

- 1. When a coroner or the coroner's deputy is informed that a person has been killed, has committed suicide or has suddenly died under such circumstances as to afford reasonable ground to suspect that the death has been occasioned by unnatural means, the coroner shall make an appropriate investigation.
- 2. In all cases where it is apparent or can be reasonably inferred that the death may have been caused by a criminal act, the coroner or the coroner's deputy shall notify the district attorney of the county where the inquiry is made, and the district attorney shall make an investigation with the assistance of the coroner. If the sheriff is not ex officio the coroner, the coroner shall also notify the sheriff, and the district attorney and sheriff shall make the investigation with the assistance of the coroner.
- 3. The holding of a coroner's inquest is within the sound discretion of the district attorney or district judge of the county. An inquest need not be conducted in any case of death manifestly occasioned by natural cause, suicide, accident or when it is publicly known that the death was caused by a person already in custody, but an inquest must be held unless the district attorney or a district judge certifies that no inquest is required.

- 4. If an inquest is to be held, the district attorney shall call upon a justice of the peace of the county to preside over it. The justice of the peace shall summon three persons qualified by law to serve as jurors, to appear before the justice of the peace forthwith at the place where the body is or such other place within the county as may be designated by him or her to inquire into the cause of death.
- 5. A single inquest may be held with respect to more than one death, where all the deaths were occasioned by a common cause.

[3:107:1909; A 1919, 60; 1949, 152; 1943 NCL § 11427]—(NRS A 1977, 666; 1979, 1369)

Clark County NV Code 2.12.060 - Duties.

It shall be the duty of the county coroner to determine the cause of death of any person reported to him as having been killed by violence; has suddenly died under such circumstances as to afford reasonable grounds to suspect or infer that death has been caused or occasioned by the act of another by criminal means; has committed suicide; and to determine the cause of all deaths as to which applicable state law makes it the duty of the coroner to sign certificates of death.

The county coroner, or his assigned deputy, shall go to the scene of the dead person or persons and investigate all deaths as hereinabove generally described, and also inclusive of deaths as follows:

- 1. Unattended deaths.
- 2. Deaths wherein the deceased has not been attended by a physician in the ten days before death. A previously attending physician shall, however, certify the cause of death to the best of his knowledge.
- 3. Deaths related to or following known or suspected self-induced or criminal abortion.
- 4. Known or suspected homicide, suicide or accidental poisoning.
- 5. Deaths known or suspected as resulting in whole or in part from or related to accident or injury occurring within one year.
- 6. Deaths due to drowning, fire, hanging, gunshot, stabbing, cutting, exposure, starvation, strangulation or aspiration.
- 7. Death in whole or in part occasioned by criminal means.
- 8. Deaths in prison or in part occasioned by criminal means.
- 9. Deaths under such circumstances as to afford a reasonable ground to suspect that the death was caused by the criminal act of another, or any deaths reported by physicians or other persons having knowledge of death for inquiry by coroner.

(Ord. 2667 § 1, 2001: Ord. 262 § 6, 1967)

Using this Report

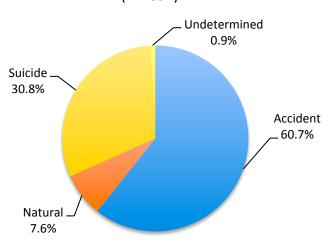
Due to the sample sizes and unknown toxin levels generalizing the results to the greater population of Nevada should be done with caution. The total number of deaths is labeled on each graph. This is to increase the reader's awareness of the sample size and the limited applicability to the greater population.

All Substance Related Deaths

This report includes data from 894 substance related deaths in Clark County, Nevada during 2013. The following graph and table describe the manner of the deaths.

Manner of Death



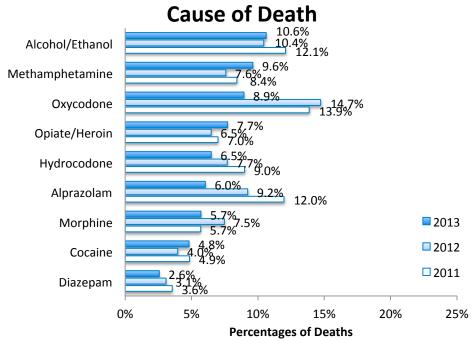


| | | Number | | Percent | | | |
|--------------|------|--------|------|---------|--------|--------|--|
| | 2011 | 2012 | 2013 | 2011 | 2012 | 2013 | |
| Accident | 551 | 556 | 543 | 65.3% | 61.1% | 60.7% | |
| Natural | 53 | 60 | 68 | 6.3% | 6.6% | 7.6% | |
| Suicide | 238 | 292 | 275 | 28.2% | 32.1% | 30.8% | |
| Undetermined | 2 | 2 | 8 | 0.2% | 0.2% | 0.9% | |
| Total | 844 | 910 | 894 | 100.0% | 100.0% | 100.0% | |

Definitions of Manner of Death:

- **Natural**: death solely or nearly totally to natural disease and/or aging process.
- Accident: death due to an unplanned and unforeseeable sequence of events incurring an
 injury or poisoning causing death and there is little or no evidence that the injury or
 poisoning occurred with intent to harm or cause death. In essence, the fatal outcome was
 unintentional.
- **Suicide**: death due to an injury or poisoning as a result of an intentional, self-inflicted act intended to do self-harm or cause the death of one's self.
- **Homicide**: death due to a volitional act committed by another person to cause fear, harm, or death.
- **Undetermined or "could not be determined"**: is a classification used when the information pointing to one manner of death is no more compelling than one or more other compelling manners of death in thorough consideration of all available information.

The graph below shows most of the common toxicological compounds and the percentage of deaths that were caused by that substance.



*Each drug in the graph above accounts for all cases (in 2011 n=844; 2012 n=910; 2013 n=894), for example in 2013, 9.6% of all cases had methamphetamine as a cause of death. Some deaths may be represented more than once if the combination of any of the substances on this list led to the same death.

| Manner Type* | | Number | | | <u>Percent</u> | |
|----------------------|------|--------|------|-------|----------------|-------|
| Description | 2011 | 2012 | 2013 | 2011 | 2012 | 2013 |
| Alcohol Related | 69 | 78 | 82 | 8.2% | 8.6% | 9.2% |
| Alcohol-Drug Related | 19 | 15 | 15 | 2.3% | 1.6% | 1.7% |
| Alcohol/Medication | 30 | 25 | 24 | 3.6% | 2.7% | 2.7% |
| Asphyxia | 10 | 14 | 3 | 1.2% | 1.5% | 0.3% |
| Carbon Monoxide | 7 | 8 | 3 | 0.8% | 0.9% | 0.3% |
| Cutting/Stabbing | 4 | 9 | 7 | 0.5% | 1.0% | 0.8% |
| Drug Related | 233 | 183 | 200 | 27.6% | 20.1% | 22.4% |
| Fire | 2 | 2 | 1 | 0.2% | 0.2% | 0.1% |
| Firearms** | 100 | 130 | 133 | 11.8% | 14.3% | 14.9% |
| Hanging | 30 | 34 | 41 | 3.6% | 3.7% | 4.6% |
| Inhalant Related | 2 | 3 | 1 | 0.2% | 0.3% | 0.1% |
| Jumping | 7 | 12 | 6 | 0.8% | 1.3% | 0.7% |
| Medical | 1 | - | - | 0.1% | - | - |
| Medication | 233 | 266 | 247 | 27.6% | 29.2% | 27.6% |
| Medication/Drugs | 24 | 30 | 31 | 2.8% | 3.3% | 3.5% |
| Motor Vehicle | 65 | 93 | 94 | 7.7% | 10.2% | 10.5% |
| Poisoning | 2 | 2 | 1 | 0.2% | 0.2% | 0.1% |
| Suffocation | 2 | 3 | 4 | 0.2% | 0.3% | 0.4% |
| Toxicology | 4 | 3 | 1 | 0.5% | 0.3% | 0.1% |

| (con't) De s | scription | | Number | | | Percent | |
|---------------------|-----------|------|--------|------|-------|---------|-------|
| | - | 2011 | 2012 | 2013 | 2011 | 2012 | 2013 |
| Age Group | | | | | | | |
| | 0-6 | 5 | 12 | 6 | 0.6% | 1.3% | 0.7% |
| | 7-14 | - | 2 | 2 | - | 0.2% | 0.2% |
| | 15-20 | 44 | 32 | 18 | 5.2% | 3.5% | 2.0% |
| | 21-25 | 69 | 60 | 61 | 8.2% | 6.6% | 6.8% |
| | 26-29 | 48 | 49 | 89 | 5.7% | 5.4% | 10.0% |
| | 30-39 | 154 | 142 | 141 | 18.2% | 15.6% | 15.8% |
| | 40-49 | 197 | 218 | 207 | 23.3% | 24.0% | 23.2% |
| | 50-59 | 187 | 235 | 222 | 22.2% | 25.8% | 24.8% |
| | 60-69 | 105 | 121 | 103 | 12.4% | 13.3% | 11.5% |
| | 70-79 | 17 | 30 | 35 | 2.0% | 3.3% | 3.9% |
| | 80+ | 15 | 9 | 10 | 1.8% | 1.0% | 1.1% |
| | Missing | 3 | - | - | 0.4% | - | - |
| Gender | | | | | | | |
| | Male | 562 | 594 | 624 | 66.6% | 65.3% | 69.8% |
| | Female | 281 | 315 | 270 | 33.3% | 34.6% | 30.2% |
| _ | Unknown | 1 | 1 | - | 0.1% | 0.1% | - |
| Incident Occu | r at Work | | | | | | |
| | Yes | 19 | 3 | 4 | 2.3% | 0.3% | 0.4% |
| | No | 825 | 907 | 890 | 97.7% | 99.7% | 99.6% |
| Homeless | | | | | | | |
| | Yes | 14 | 28 | 44 | 1.7% | 3.1% | 4.9% |
| | No | 830 | 882 | 850 | 98.3% | 96.9% | 95.1% |
| Veteran | | | | | | | |
| | Yes | 43 | 43 | 43 | 5.1% | 4.7% | 4.8% |
| | No | 801 | 867 | 851 | 94.9% | 95.3% | 95.2% |
| Marital Status | | | | | | | |
| | Single | 368 | 324 | 348 | 43.6% | 35.6% | 38.9% |
| | Married | 210 | 227 | 191 | 24.9% | 24.9% | 21.4% |
| | Divorced | 154 | 198 | 179 | 18.2% | 21.8% | 20.0% |
| | Widowed | 40 | 57 | 42 | 4.7% | 6.3% | 4.7% |
| | Unknown | 71 | 104 | 134 | 8.4% | 11.4% | 15.0% |
| | Missing | 1 | - | - | 0.1% | - | - |

^{*}Manner types that are not directly related to substance use were associated with a toxicology finding that included drug, alcohol, or medication use. The cause of death for many of these cases is substance related. However, some deaths may not have been fully attributable to a substance.

^{**} In the next few sections there are details related to manner type and cause of death, which are closely related. The differences between the two are related to the data categorization. Only one manner type can be selected to describe the manner of death, while cause of death is a broader definition that includes up to four causes of death. While manner type and cause of death are related, the cause of death provides additional details and specifics about each death. In rare cases, using the different categories may result in slightly different results, such as the firearm deaths reported above and on page 15.

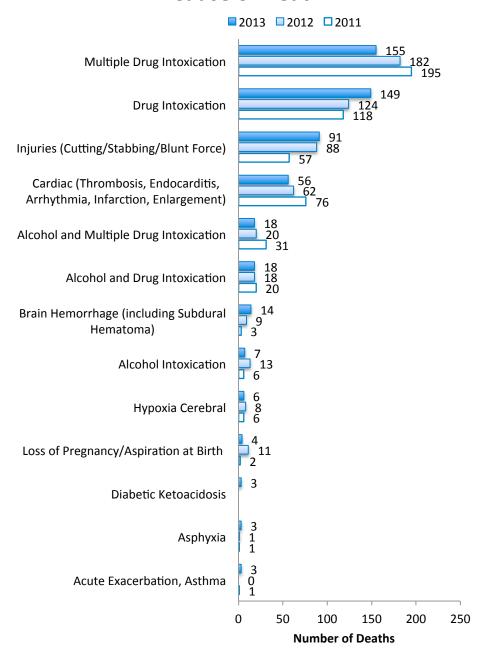
Substance Related Accident Deaths

There were 543 substance related deaths classified as accident deaths in 2013. The majority of cases were drug and medication related. Deaths not attributable to these manner types were found to have drug or medication in their toxicology screens. The deceased ranged from age 0 to 92. The majority of the deceased were male (66.1%).

| Description | | Number | | | Percent | |
|----------------------|------|--------|------|-------|---------|-------|
| | 2011 | 2012 | 2013 | 2011 | 2012 | 2013 |
| Manner Type | | | | | | |
| Alcohol Related | 15 | 18 | 12 | 2.7% | 3.2% | 2.2% |
| Alcohol-Drug Related | 14 | 13 | 13 | 2.5% | 2.3% | 2.4% |
| Alcohol/Medication | 28 | 20 | 22 | 5.1% | 3.6% | 4.1% |
| Drug Related | 210 | 170 | 191 | 38.1% | 30.6% | 35.2% |
| Inhalant Related | 2 | 3 | 1 | 0.4% | 0.5% | 0.2% |
| Medication | 200 | 214 | 181 | 36.3% | 38.5% | 33.3% |
| Medication/Drugs | 19 | 27 | 31 | 3.4% | 4.9% | 5.7% |
| Motor Vehicle | 63 | 91 | 92 | 11.4% | 16.4% | 16.9% |
| Age Group | | | | | | |
| 0-6 | 5 | 12 | 6 | 0.9% | 2.2% | 1.1% |
| 7-14 | - | 1 | 1 | - | 0.2% | 0.2% |
| 15-20 | 29 | 26 | 13 | 5.3% | 4.7% | 2.4% |
| 21-25 | 48 | 44 | 42 | 8.7% | 7.9% | 7.7% |
| 26-29 | 38 | 33 | 48 | 6.9% | 5.9% | 8.8% |
| 30-39 | 111 | 84 | 91 | 20.1% | 15.1% | 16.8% |
| 40-49 | 143 | 137 | 129 | 26.0% | 24.6% | 23.8% |
| 50-59 | 117 | 137 | 140 | 21.2% | 24.6% | 25.8% |
| 60-69 | 45 | 67 | 56 | 8.2% | 12.1% | 10.3% |
| 70-79 | 7 | 13 | 14 | 1.3% | 2.3% | 2.6% |
| 80+ | 6 | 2 | 3 | 1.1% | 0.4% | 0.6% |
| Missing | 2 | _ | - | 0.4% | - | _ |
| Gender | | | | | | |
| Male | 353 | 348 | 359 | 64.1% | 62.6% | 66.1% |
| Female | 197 | 207 | 184 | 35.8% | 37.2% | 33.9% |
| Unknown | 1 | 1 | - | 0.2% | 0.2% | - |

| (con't) Description | | Number | | | Percent | |
|----------------------------|------|--------|------|-------|---------|-------|
| • | 2011 | 2012 | 2013 | 2011 | 2012 | 2013 |
| Death Location | | | | | | |
| Airport | - | 1 | - | - | 0.2% | - |
| Alley | 2 | 1 | - | 0.4% | 0.2% | - |
| Bathroom | 3 | - | 1 | 0.5% | - | 0.2% |
| Business | 2 | - | 2 | 0.4% | - | 0.4% |
| Care Center | 1 | 1 | - | 0.2% | 0.2% | - |
| Casino | 1 | - | - | 0.2% | - | - |
| Desert Area | 12 | 8 | 8 | 2.2% | 1.4% | 1.5% |
| Garage | - | - | 1 | - | - | 0.2% |
| Homeless Shelter | - | - | 1 | - | - | 0.2% |
| Hospice | 3 | 5 | 2 | 0.5% | 0.9% | 0.4% |
| Hospital | 136 | 100 | 96 | 24.7% | 18.0% | 17.7% |
| Hospital ER | - | 69 | 60 | - | 12.4% | 11.0% |
| Hotel/Motel | 17 | 25 | 24 | 3.1% | 4.5% | 4.4% |
| Park | 2 | - | - | 0.4% | - | - |
| Parking Lot | 7 | 7 | 10 | 1.3% | 1.3% | 1.8% |
| Residence | 335 | 292 | 275 | 60.8% | 52.5% | 50.6% |
| Roadway/Street | 25 | 39 | 54 | 4.5% | 7.0% | 9.9% |
| Sidewalk | - | 2 | 3 | - | 0.4% | 0.6% |
| Storm Drain | 1 | 1 | - | 0.2% | 0.2% | - |
| Vehicle | 2 | 4 | 5 | 0.4% | 0.7% | 0.9% |
| Work Site | 1 | - | - | 0.2% | - | - |
| Yard | 1 | 1 | 1 | 0.2% | 0.2% | 0.2% |
| Incident Occur at Work | | | | | | |
| Yes | 15 | 1 | 4 | 2.7% | 0.2% | 0.7% |
| No | 536 | 555 | 539 | 97.3% | 99.8% | 99.3% |
| Homeless | | | | | | |
| Yes | 12 | 21 | 33 | 2.2% | 3.8% | 6.1% |
| No | 539 | 535 | 510 | 97.8% | 96.2% | 93.9% |
| Veteran | | _ | | | | |
| Yes | 24 | 16 | 23 | 4.4% | 2.9% | 4.2% |
| No | 527 | 540 | 520 | 95.6% | 97.1% | 95.8% |
| Marital Status | | | | | | |
| Single | 246 | 221 | 219 | 44.6% | 39.7% | 40.3% |
| Married | 133 | 124 | 107 | 24.1% | 22.3% | 19.7% |
| Divorced | 102 | 115 | 106 | 18.5% | 20.7% | 19.5% |
| Widowed | 24 | 31 | 26 | 4.4% | 5.6% | 4.8% |
| Unknown | 46 | 65 | 85 | 8.3% | 11.7% | 15.7% |

Accident Deaths Cause of Death



^{*}This graph excludes 22 causes of death and 16 cases from 2013 data. These causes of death were excluded from this graph since each represents 2 or few cases. These causes of death and cases are reflected in the table that follows. Additionally, all data on cause of death from 2011 and 2012 is included in the following table.

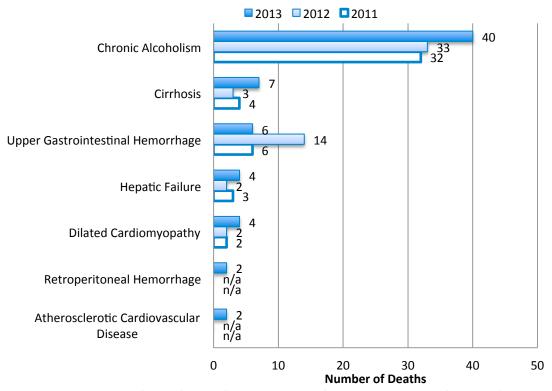
| | <u> </u> | lumbe | er | | Percent | • |
|---|----------|-------|------|-------|---------|-------|
| Accident Deaths: Cause of Death | 2011 | 2012 | 2013 | 2011 | 2012 | 2013 |
| Acute and Chronic Alcohol Abuse | 4 | - | - | 0.7% | - | - |
| Acute Exacerbation, Asthma | 1 | - | 3 | 0.2% | - | 0.6% |
| Acute Pancreatitis | - | - | 1 | - | - | 0.2% |
| Alcohol and Drug Intoxication | 20 | 18 | 18 | 3.6% | 3.2% | 3.3% |
| Alcohol and Multiple Drug Intoxication | 31 | 20 | 18 | 5.6% | 3.6% | 3.3% |
| Alcohol Intoxication | 6 | 13 | 7 | 1.1% | 2.3% | 1.3% |
| Anaphylaxis | 1 | - | 1 | 0.2% | - | 0.2% |
| Asphyxia | 1 | 1 | 3 | 0.2% | 0.2% | 0.6% |
| Brain Hemorrhage (including Subdural Hematoma) | 3 | 9 | 14 | 0.5% | 1.6% | 2.6% |
| Cardiac | | | | | | |
| (Thrombosis, Endocarditis, Arrhythmia, Infarction, Enlargement) | 76 | 62 | 56 | 13.8% | 11.2% | 10.3% |
| Dehydration | 1 | - | - | 0.2% | - | - |
| Diabetic Ketoacidosis | - | - | 3 | - | - | 0.6% |
| Drug Intoxication | 118 | 124 | 149 | 21.4% | 22.3% | 27.4% |
| End-Stage Liver Disease | 1 | 1 | 1 | 0.2% | 0.2% | 0.2% |
| Exsanguination | - | - | 1 | - | - | 0.2% |
| Gastrointestinal Bleed | 1 | - | 2 | 0.2% | - | 0.4% |
| Hemopericardium | 1 | 1 | - | 0.2% | 0.2% | - |
| Hemoperitoneum | 1 | - | 1 | 0.2% | - | 0.2% |
| Hypotension and Bradycardia | - | - | 1 | - | - | 0.2% |
| Hypoxia Cerebral | 6 | 8 | 6 | 1.1% | 1.4% | 1.1% |
| Injuries | | | | | | 16.8% |
| (Cutting/Stabbing/Blunt Force) | 57 | 88 | 91 | 10.3% | 15.8% | |
| Kidney Failure | - | 4 | 1 | - | 0.7% | 0.2% |
| Loss of Pregnancy/Aspiration at Birth | 2 | 11 | 4 | 0.4% | 2.0% | 0.7% |
| Metastatic Pulmonary Adenocarcinoma | 1 | - | - | 0.2% | - | - |
| Motor Vehicle Collision | 2 | - | - | 0.4% | - | - |
| Multi-System Organ Failure | 1 | - | - | 0.2% | - | - |
| Multiple Congenital Anomalies | 1 | - | - | 0.2% | - | - |
| Multiple Drug Intoxication Pneumonia | 195 | 182 | 155 | 35.4% | 32.7% | 28.5% |
| (including Aspiration Pneumonia) | 11 | 5 | 2 | 2.0% | 0.9% | 0.4% |
| Poisoning | - | 3 | - | - | 0.5% | - |
| Pulmonary | | | | | | |
| (Emboli, Infarction, COPD) | 6 | 2 | 1 | 1.1% | 0.4% | 0.2% |
| Respiratory Failure | 1 | - | - | 0.2% | - | - |
| Ruptured Aortic Aneurysm | 2 | - | - | 0.4% | - | - |
| Sepsis | - | 3 | 2 | - | 0.5% | 0.4% |
| Sudden Unexpected Death in Epilepsy (SUDEP) | - | 1 | 2 | - | 0.2% | 0.4% |
| Total | 551 | 556 | 543 | 100% | 100% | 100% |

Substance Related Natural Deaths

There were 68 deaths related to substance abuse that were classified as natural deaths in 2013. All of these cases were alcohol related. In 2013, the deceased ranged from age 28 to 92. The highest percentage of deaths (33.8%) were between 50-59 years old and 77.9% of the deceased were male.

| Desc | cription | | Number | | | Percent | |
|-----------------------|-----------------|------|--------|------|--------|---------|--------|
| | | 2011 | 2012 | 2013 | 2011 | 2012 | 2013 |
| Manner Type | | | | | | | |
| | Alcohol Related | 53 | 60 | 68 | 100% | 100% | 100% |
| Age Group | | | | | | | |
| | 20-29 | 1 | - | 2 | 1.9% | - | 2.9% |
| | 30-39 | 6 | 4 | 8 | 11.3% | 6.7% | 11.8% |
| | 40-49 | 13 | 20 | 17 | 24.5% | 33.3% | 25.0% |
| | 50-59 | 14 | 22 | 23 | 26.4% | 36.7% | 33.8% |
| | 60-69 | 18 | 9 | 13 | 34.0% | 15.0% | 19.1% |
| | 70-79 | - | 3 | 3 | - | 5.0% | 4.4% |
| | 80+ | 1 | 2 | 2 | 1.9% | 3.3% | 2.9% |
| Gender | | | | | | | |
| | Male | 34 | 42 | 53 | 64.2% | 70.0% | 77.9% |
| | Female | 19 | 18 | 15 | 35.8% | 30.0% | 22.1% |
| Injury Descript | | | | | | | |
| | Unknown | 53 | 60 | 68 | 100.0% | 100.0% | 100.0% |
| Death Location | | | | | | | |
| | Airport | - | - | 1 | - | - | 1.5% |
| | Business | 1 | - | 1 | 1.9% | - | 1.5% |
| | Desert Area | - | 3 | 2 | - | 5.0% | 2.9% |
| | Hospice | - | 1 | 1 | - | 1.7% | 1.5% |
| | Hospital | 9 | 2 | 5 | 16.9% | 3.3% | 7.4% |
| | Hospital ER | - | 2 | 4 | - | 3.3% | 5.9% |
| | Hotel/Motel | 2 | 3 | 6 | 3.8% | 5.0% | 8.8% |
| | Parking Lot | - | 2 | 2 | - | 3.3% | 2.9% |
| | Residence | 40 | 46 | 44 | 75.5% | 76.7% | 64.7% |
| | Sidewalk | - | - | 1 | - | - | 1.5% |
| | Vehicle | - | 1 | 1 | - | 1.7% | 1.5% |
| | Yard | 1 | - | - | 1.9% | - | - |
| Incident Occur | at Work | | | | | | |
| | Yes | 1 | - | - | 1.9% | _ | - |
| | No | 52 | 60 | 68 | 98.1% | 100% | 100% |
| Homeless | | | | | | | |
| | Yes | 2 | 3 | 6 | 3.8% | 5.0% | 8.8% |
| | No | 51 | 57 | 62 | 96.2% | 95.0% | 91.2% |
| Veteran | | | | | | | |
| | Yes | 4 | 6 | 1 | 7.5% | 10% | 1.5% |
| | No | 49 | 54 | 67 | 92.5% | 90% | 98.5% |
| Marital Status | | | | | | | |
| | Single | 19 | 17 | 27 | 35.8% | 28.3% | 39.7% |
| | Married | 10 | 11 | 11 | 18.9% | 18.3% | 16.2% |
| | Divorced | 12 | 21 | 14 | 22.6% | 35.0% | 20.6% |
| | Widowed | 2 | 3 | 5 | 3.8% | 5.0% | 7.4% |
| | Unknown | 10 | 8 | 11 | 18.9% | 13.3% | 16.2% |
| | J | | | | 20.370 | | |

Natural Deaths Cause of Death



^{*}This graph excludes 10 causes of death (6 cases from 2011; 6 cases from 2012; and 3 cases from 2012). These causes of death were excluded from this graph since each represents 2 or fewer cases. These causes of death and cases are reflected in the table on the next page (page 13).

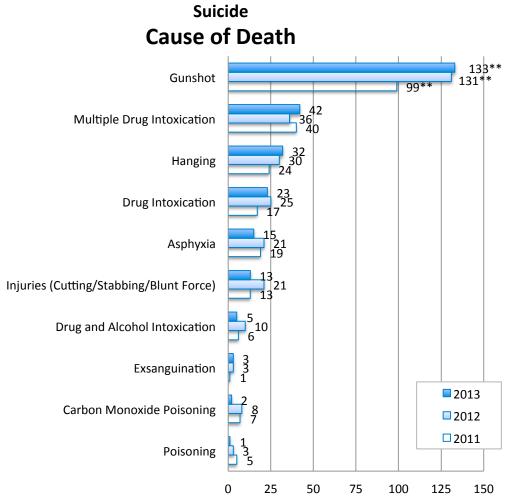
| Net ad Basilia Consul Specific | | Number | | | Percent | | | |
|--|------|--------|------|-------|---------|-------|--|--|
| Natural Deaths: Cause of Death | 2011 | 2012 | 2013 | 2011 | 2012 | 2013 | | |
| Acute Alcohol Intoxication | 1 | - | - | 1.9% | - | - | | |
| Acute Pancreatitis | 1 | 2 | - | 1.9% | 3.3% | - | | |
| Alcoholic Ketoacidosis | - | - | 1 | - | - | 1.5% | | |
| Atherosclerotic Cardiovascular | - | | 2 | - | | 2.9% | | |
| Disease | | - | | | - | | | |
| Chronic Alcoholism | 32 | 33 | 40 | 60.4% | 55.0% | 58.8% | | |
| Cirrhosis | 4 | 3 | 7 | 7.5% | 5.0% | 10.3% | | |
| Dilated Cardiomyopathy | 2 | 2 | 4 | 3.8% | 3.3% | 5.9% | | |
| Exsanguination | 1 | 1 | - | 1.9% | 1.7% | - | | |
| Hepatic Encephalopathy | 2 | - | - | 3.8% | - | - | | |
| Hepatic Failure | 3 | 2 | 4 | 5.7% | 3.3% | 5.9% | | |
| Hepatic Steatosis (Fatty Liver) | 1 | 1 | - | 1.9% | 1.7% | - | | |
| Low Salt Syndrome (Hyponatremia) | - | 1 | - | - | 1.7% | - | | |
| Meningitis | - | 1 | - | - | 1.7% | - | | |
| Pneumonia | - | - | 1 | - | - | 1.5% | | |
| Retroperitoneal Hemorrhage | - | - | 2 | - | - | 2.9% | | |
| Sepsis | - | - | 1 | - | - | 1.5% | | |
| Upper Gastrointestinal Hemorrhage | 6 | 14 | 6 | 11.3% | 23.3% | 8.8% | | |
| Total | 53 | 60 | 68 | 100% | 100% | 100% | | |

Substance Related Suicide Deaths

There were 275 substance-related deaths that were classified as suicides in 2013. Deaths that were not classified as related to alcohol, drugs, or medication were found to have drugs or medication in their toxicology screens. Firearms were the primary manner type (48.4%) of the suicides in 2013. The deceased ranged from age 14 to 85. Over one-third (37.1%) of the deceased were under 39 years old and 42.5% were between 40 and 59 years old. More males died by suicide than females (75.6% compared to 24.4%).

| Description | | Number | | | Percent | |
|----------------------|------|--------|------|-------|---------|-------|
| • | 2011 | 2012 | 2013 | 2011 | 2012 | 2013 |
| Manner Type | | | | | | |
| Alcohol Related | 1 | - | 2 | 0.4% | - | 0.7% |
| Alcohol-Drug Related | 5 | 2 | 1 | 2.1% | 0.7% | 0.4% |
| Alcohol/Medication | 2 | 5 | 2 | 0.8% | 1.7% | 0.7% |
| Asphyxia | 10 | 14 | 3 | 4.2% | 4.8% | 1.1% |
| Carbon Monoxide | 7 | 8 | 3 | 2.9% | 2.7% | 1.1% |
| Cutting/Stabbing | 4 | 9 | 7 | 1.7% | 3.1% | 2.5% |
| Drug Related | 23 | 12 | 7 | 9.7% | 4.1% | 2.5% |
| Fire | 2 | 2 | 1 | 0.8% | 0.7% | 0.4% |
| Firearms | 100 | 130 | 133 | 42.0% | 44.5% | 48.4% |
| Hanging | 30 | 34 | 41 | 12.6% | 11.6% | 14.9% |
| Jumping | 7 | 12 | 6 | 2.9% | 4.1% | 2.2% |
| Medical | 1 | - | - | 0.4% | - | - |
| Medication | 31 | 51 | 61 | 13.0% | 17.5% | 22.2% |
| Medication/Drugs | 5 | 3 | - | 2.1% | 1.0% | - |
| Motor Vehicle | 2 | 2 | 2 | 0.8% | 0.7% | 0.7% |
| Poisoning | 2 | 2 | 1 | 0.8% | 0.7% | 0.4% |
| Suffocation | 2 | 3 | 4 | 0.8% | 1.0% | 1.5% |
| Toxicology | 4 | 3 | 1 | 1.7% | 1.0% | 0.4% |
| Age Group | | | | | | |
| 7-14 | 0 | 1 | 1 | 0% | 0.3% | 0.4% |
| 15-20 | 15 | 6 | 5 | 6.3% | 2.1% | 1.8% |
| 21-25 | 21 | 16 | 17 | 8.8% | 5.5% | 6.2% |
| 26-29 | 9 | 16 | 39 | 3.8% | 5.5% | 14.2% |
| 30-39 | 37 | 53 | 40 | 15.5% | 18.2% | 14.5% |
| 40-49 | 39 | 60 | 60 | 16.4% | 20.5% | 21.8% |
| 50-59 | 56 | 76 | 57 | 23.5% | 26.0% | 20.7% |
| 60-69 | 42 | 45 | 33 | 17.6% | 15.4% | 12.0% |
| 70-79 | 10 | 14 | 18 | 4.2% | 4.8% | 6.5% |
| 80+ | 8 | 5 | 5 | 3.4% | 1.7% | 1.8% |
| Missing | 1 | _ | - | 0.4% | - | _ |
| Gender | | | | | | |
| Male | 173 | 203 | 208 | 72.7% | 69.5% | 75.6% |
| Female | 65 | 89 | 67 | 27.3% | 30.5% | 24.4% |

| (con't) Description | | Number Percent | | | | |
|----------------------------|------|----------------|------|--------|-------|-------|
| | 2011 | 2012 | 2013 | 2011 | 2012 | 2013 |
| Death Location | | | | | | |
| Bar/Lounge | - | - | 1 | - | - | 0.4% |
| Bathroom | - | 3 | 1 | - | 1.0% | 0.4% |
| Business | 2 | 2 | 1 | 0.8% | 0.7% | 0.4% |
| Care Center | 1 | 1 | 1 | 0.4% | 0.3% | 0.4% |
| Casino | 2 | 2 | - | 0.8% | 0.7% | - |
| Church | - | - | 1 | - | - | 0.4% |
| Desert Area | 9 | 7 | 4 | 3.8% | 2.4% | 1.5% |
| Garage/Shed | 2 | 3 | 3 | 0.8% | 1.0% | 1.1% |
| Hospice | 1 | 2 | 2 | 0.4% | 0.7% | 0.7% |
| Hospital | 43 | 29 | 33 | 18.1% | 9.9% | 12.0% |
| Hospital ER | - | 13 | 6 | - | 4.5% | 2.2% |
| Hotel/Motel | 15 | 21 | 11 | 6.3% | 7.2% | 4.0% |
| Jail | - | 1 | 1 | - | 0.3% | 0.4% |
| Lake | - | 2 | 1 | - | 0.7% | 0.4% |
| Park | 1 | - | - | 0.4% | - | - |
| Parking Lot | 7 | 7 | 7 | 2.9% | 2.4% | 2.5% |
| Railroad | - | - | 1 | - | - | 0.4% |
| Residence | 137 | 182 | 189 | 57.6% | 62.3% | 68.7% |
| Roadway/Street | 4 | 6 | 5 | 1.7% | 2.1% | 1.8% |
| Sidewalk | - | 1 | - | - | 0.3% | - |
| Tunnel | - | 1 | - | - | 0.3% | - |
| Vehicle | 12 | 5 | 1 | 5.0% | 1.7% | 0.4% |
| Work Site | - | 1 | 1 | - | 0.3% | 0.4% |
| Yard | 2 | 3 | 4 | 0.8% | 1.0% | 1.5% |
| Unknown | - | - | 1 | - | - | 0.4% |
| Incident Occur at Work | | | | | | |
| Yes | 3 | 2 | 0 | 1.3% | 0.7% | 0% |
| No | 235 | 290 | 275 | 98.7% | 99.3% | 100% |
| Homeless | | | | | | |
| Yes | - | 4 | 5 | - | 1.4% | 1.8% |
| No | 238 | 288 | 270 | 100.0% | 98.6% | 98.2% |
| Veteran | | | | | | |
| Yes | 15 | 21 | 18 | 6.3% | 7.2% | 6.5% |
| No | 223 | 271 | 257 | 93.7% | 92.8% | 93.5% |
| Marital Status | | | | | | |
| Single | 102 | 85 | 98 | 42.9% | 29.1% | 35.6% |
| Married | 67 | 91 | 72 | 28.2% | 31.2% | 26.2% |
| Divorced | 39 | 62 | 57 | 16.4% | 21.2% | 20.7% |
| Widowed | 14 | 23 | 11 | 5.9% | 7.9% | 4.0% |
| Unknown | 15 | 31 | 37 | 6.3% | 10.6% | 13.5% |
| Missing | 1 | - | - | 0.4% | - | - |



^{*}This graph excludes 10 causes of death (7 cases from 2011; 4 cases from 2012; and 6 cases from 2013). These causes of death were excluded from this graph since each represents 2 or fewer cases. These causes of death and cases are reflected in the table on the next page.

| Cuinida Danthar Cours of Danth | | Number | | | Percent | |
|--|------|--------|------|-------|---------|-------|
| Suicide Deaths: Cause of Death | 2011 | 2012 | 2013 | 2011 | 2012 | 2013 |
| Alcohol Intoxication | - | - | 1 | 0.4% | 0.7% | 0.4% |
| Anoxic Encephalopathy | 1 | 2 | 1 | 0.4% | 0.7% | 0.4% |
| Asphyxia | 19 | 21 | 15 | 8.0% | 7.2% | 5.5% |
| Aspiration pneumonia | 1 | - | 2 | 0.4% | = | 0.7% |
| Carbon Monoxide Poisoning | 7 | 8 | 2 | 2.9% | 2.7% | 0.7% |
| Chronic Obstructive Pulmonary Disease | 1 | - | - | 0.4% | = | - |
| Dilated Cardiomyopathy | - | 1 | - | - | 0.3% | - |
| Drowning | 2 | - | 1 | 0.8% | - | 0.4% |
| Drug and Alcohol Intoxication | 6 | 10 | 5 | 2.5% | 3.4% | 1.8% |
| Drug Intoxication | 17 | 25 | 23 | 7.1% | 8.6% | 8.4% |
| Exsanguination | 1 | 3 | 3 | 0.4% | 1.0% | 1.1% |
| Fulminant Hepatic Necrosis | 1 | - | - | 0.4% | - | - |
| Gunshot** | 99 | 131 | 133 | 41.6% | 44.9% | 48.4% |
| Hanging | 24 | 30 | 32 | 10.1% | 10.3% | 11.6% |
| Injuries (Cutting/Stabbing/Blunt Force) | 13 | 21 | 13 | 5.5% | 7.2% | 4.7% |
| Multiple Drug Intoxication | 40 | 36 | 42 | 16.8% | 12.3% | 15.3% |
| Poisoning | 5 | 3 | 1 | 2.1% | 1.0% | 0.4% |
| Severe Hypoglycemia | 1 | - | - | 0.4% | - | - |
| Sudden Unexpected Death in Epilepsy | - | 1 | - | - | 0.3% | - |
| Thermal Injuries | - | - | 1 | - | - | 0.4% |
| Total | 238 | 292 | 275 | 100% | 100% | 100% |

^{**} Manner type and cause of death are closely related in this report. The differences between the two are related to the data categorization. Only one manner type can be selected as the manner of death. Cause of death is a broader definition that includes up to four causes of death. This information has been condensed into categories. While manner type and cause of death are related, the cause of death provides additional details and specifics about each death. For example, it is possible a death could be labeled with the manner type of medication, while under cause of death there would be details of the medication or other details, such as car accident, or other injuries related to cause of death. This classification system resulted in data in this table, for cause of death, that are slightly different from similar data reported on page 6 for manner type of death.

Substance Related Undetermined Deaths

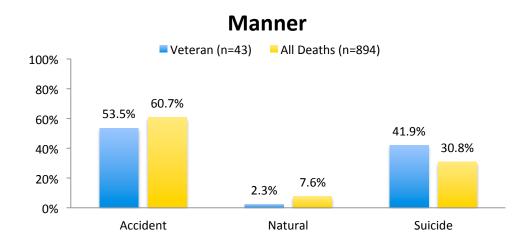
The eight deaths classified as undetermined are outlined below by manner type, cause of death, age range, gender, injury description, death location, and marital status. The deceased ranged from age 23 to 64. None of the deceased were homeless.

| Manner Type | Desc | cription | Number | | Percent | | | |
|---|----------------|------------|--------|------|---------|---------|----------------|---------|
| Alcohol-drug related - | | | 2011 | 2012 | 2013 | 2011 | 2012 | 2013 |
| Drug Related | Manner Type | | | | | | | |
| Medication 2 | | | - | - | | - | - | |
| Age Group | | | - | | | - | | |
| 21-25 | | Medication | 2 | 1 | 5 | 100.0% | 50.0% | 62.5% |
| 30-39 | Age Group | | | | | | | |
| 40-49 | | | - | | | - | - | |
| So-59 | | | - | | | - | | |
| Male | | | 2 | 1 | | 100.0% | 50.0% | |
| Male | | | - | - | | - | - | |
| Male Female - 1 | | 60-69 | - | - | 1 | - | - | 12.5% |
| Female | Gender | | | | | 400.00/ | 50.00 / | 50.00/ |
| Injury Description | | | 2 | | | 100.0% | | |
| Consumed ethanol and prescription drugs Consumed prescription drugs Consumed prescription drugs Ingestion of drug and medication Ingestion of drug and drug | | | - | 1 | 4 | - | 50.0% | 50.0% |
| Prescription drugs | | | | | | | | 40.50/ |
| Consumed prescription drugs 2 | | | - | - | 1 | - | - | 12.5% |
| Ingestion of drug and medication | • | | | | | 400.00/ | | 40.50/ |
| Medication use - 1 3 - 50.0% 37.5% Methadone use - - 1 - - 12.5% Unknown - - 1 - - 12.5% Death Location Residence 2 1 7 100.0% 50.0% 87.5% Swimming Pool - 1 - - 50.0% - - Park - - 1 - - 50.0% - - 12.5% Incident Occur at Work - <td></td> <td></td> <td>2</td> <td></td> <td></td> <td>100.0%</td> <td>-</td> <td></td> | | | 2 | | | 100.0% | - | |
| Methadone use - - - 1 - - 12.5% Unknown - - 1 - - 12.5% Death Location Residence 2 1 7 100.0% 50.0% 87.5% Swimming Pool - 1 - - 50.0% - - Park - - 1 - - 50.0% 87.5% Incident Occur at Work Yes - < | • | • | - | | | - | | |
| Unknown | | | - | 1 | | - | | |
| Death Location | | use | - | - | | - | - | |
| Residence 2 | | | - | - | 1 | - | - | 12.5% |
| Swimming Pool | Death Location | Davidona | _ | 4 | _ | 400.00/ | E0.00/ | 07.50/ |
| Park | | | 2 | | / | 100.0% | | 87.5% |
| Incident Occur at Work | | | - | | - | - | 50.0% | 42.50/ |
| Yes - | Incident Occur | | - | - | 1 | - | - | 12.5% |
| No 2 2 8 100.0% 100.0% Homeless Yes - 100.0% 100.0% 100.0% 87.5% Marital Status Single 1 1 4 50.0% 50.0% 50.0% | incident Occur | | | | | | | |
| Homeless Yes - | | | 2 | 2 | 0 | 100.00/ | 100.00/ | 100.00/ |
| Yes - | Homoloss | INU | | | 0 | 100.0% | 100.0% | 100.0% |
| Veteran Yes - - 1 - - 12.5% No 2 2 7 100.0% 100.0% 87.5% Marital Status Single 1 1 4 50.0% 50.0% 50.0% | поппетезз | Voc | | | | | | |
| Veteran Yes - - 1 - - 12.5% No 2 2 7 100.0% 100.0% 87.5% Marital Status Single 1 1 4 50.0% 50.0% 50.0% | | | 2 | 2 | 0 | 100.00/ | 100.00/ | 100.00/ |
| Yes 1 12.5% No 2 2 7 100.0% 100.0% 87.5% Marital Status Single 1 1 4 50.0% 50.0% 50.0% | | NO | | | 0 | 100.076 | 100.076 | 100.0% |
| Yes 1 12.5% No 2 2 7 100.0% 100.0% 87.5% Marital Status Single 1 1 4 50.0% 50.0% 50.0% | | | | | | | | |
| Yes 1 12.5% No 2 2 7 100.0% 100.0% 87.5% Marital Status Single 1 1 4 50.0% 50.0% 50.0% | Veteran | | | | | | | |
| No 2 2 7 100.0% 100.0% 87.5% Marital Status Single 1 1 4 50.0% 50.0% 50.0% | veterali | Ves | _ | _ | 1 | _ | _ | 12 5% |
| Marital Status 1 1 4 50.0% 50.0% 50.0% | | | 2 | 2 | | 100.0% | 100.0% | |
| Single 1 1 4 50.0% 50.0% 50.0% | Marital Status | 140 | | | , | 100.070 | 100.070 | 07.570 |
| | Walital Status | Single | 1 | 1 | 1 | 50.0% | 50.0% | 50.0% |
| 171111111111111111111111111111111111111 | | | | | | 50.070 | | |
| Divorced 1 - 2 50.0% - 25.0% | | | 1 | | | 50.0% | - | |
| Unknown 1 - 12.5% | | | _ | | | 50.070 | | |

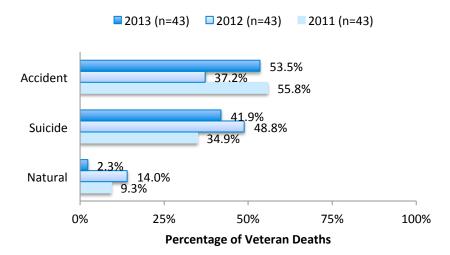
| Undetermined Deaths: Cause of Death | | Number | | Percent | | |
|--|---|--------|------|---------|-------|-------|
| | | 2012 | 2013 | 2011 | 2012 | 2013 |
| Acute Cocaine and Hydrocodone Toxicity | - | 1 | - | - | 50.0% | - |
| Alprazolam and Alcohol Intoxication | - | 1 | - | - | 50.0% | - |
| Combined Alprazolam, Hydrocodone, & Carisoprodol | 2 | | _ | 100% | | |
| Intoxication | 2 | | - | 100% | _ | _ |
| Ethanol and Gabapentin Intoxication | - | - | 1 | - | - | 12.5% |
| Methadone Intoxication | - | - | 1 | - | - | 12.5% |
| Mixed Drug Intoxication | - | - | 1 | - | - | 12.5% |
| Morphine Intoxication | - | - | 1 | - | - | 12.5% |
| Opiate and Acetaminophen Intoxication | - | - | 1 | - | - | 12.5% |
| Tramadol and Alprazolam Intoxication | - | - | 1 | - | - | 12.5% |
| Unknown | - | - | 1 | - | - | 12.5% |
| Venlafaxine Intoxication | - | - | 1 | - | - | 12.5% |

Special Populations - Substance Related Deaths Veterans

There were 43 Veteran substance-related deaths recorded by the Office of the Clark County Coroner/Medical Examiner in 2013. Of these deaths, 41.9% were suicides.

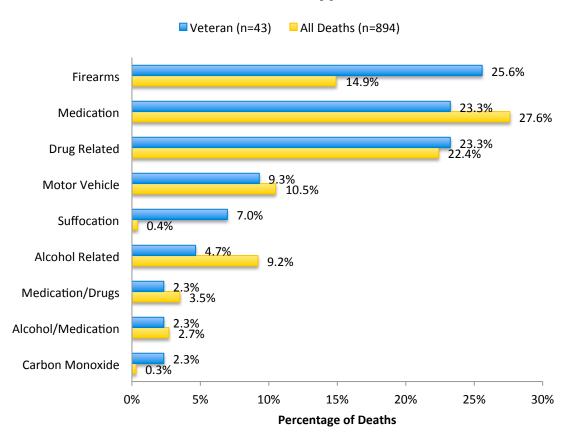


Veteran Deaths by Manner and Year



The following graph displays the manner type of death for Veterans compared to the average.

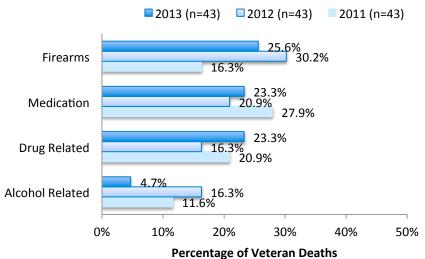
Manner Type



| Manner Type for Veteran Deaths | Veteran (n=43) | All Deaths (n=894) | |
|--------------------------------|----------------|--------------------|--|
| Alcohol Related | 4.7% | 9.2% | |
| Alcohol/Medication | 2.3% | 2.7% | |
| Carbon Monoxide | 2.3% | 0.3% | |
| Drug Related | 23.3% | 22.4% | |
| Firearms | 25.6% | 14.9% | |
| Medication | 23.3% | 27.6% | |
| Medication/Drugs | 2.3% | 3.5% | |
| Motor Vehicle | 9.3% | 10.5% | |
| Suffocation | 7.0% | 0.4% | |

Select Manner Type Comparison

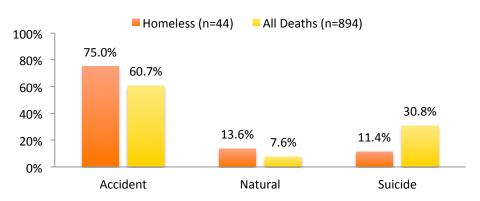
for Veteran Deaths from 2011-2013



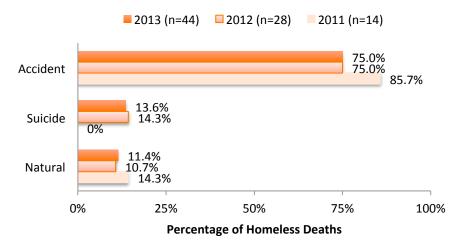
Homeless

There were 44 substance-related homeless people whose deaths were recorded by the Clark County Coroner's Office in 2013. Of these deaths, 75.0% were accident deaths and 47.7% of homeless deaths were drug related.



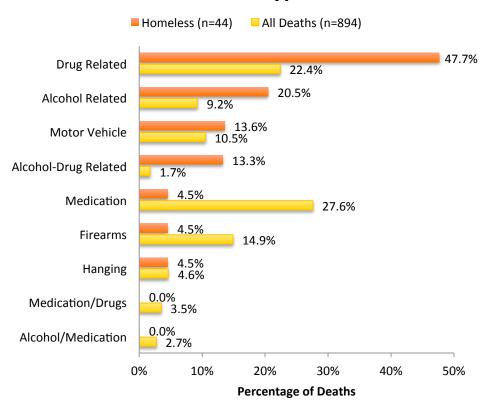


Homeless Deaths by Manner and Year



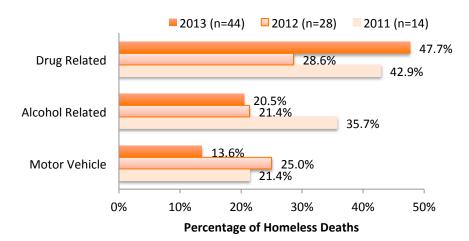
The following graph displays the manner type of death for homeless persons compared to the average.

Manner Type



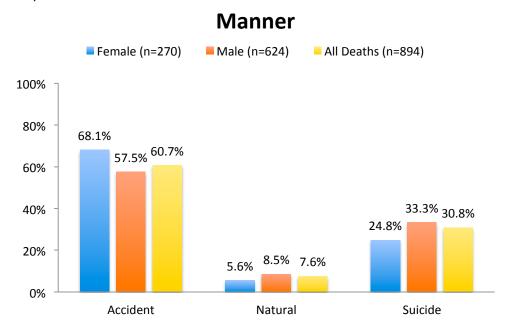
| Manner Type for Homeless Deaths | Homeless (n=44) | All Deaths (n=894) |
|---------------------------------|-----------------|--------------------|
| Alcohol Related | 20.5% | 9.2% |
| Alcohol-Drug Related | 13.3% | 1.7% |
| Alcohol/Medication | 0.0% | 2.7% |
| Drug Related | 47.7% | 22.4% |
| Firearms | 4.5% | 14.9% |
| Hanging | 4.5% | 4.6% |
| Medication | 4.5% | 27.6% |
| Medication/Drugs | 0.0% | 3.5% |
| Motor Vehicle | 13.6% | 10.5% |

Select Manner Type Comparison for Homeless Deaths from 2011-2013

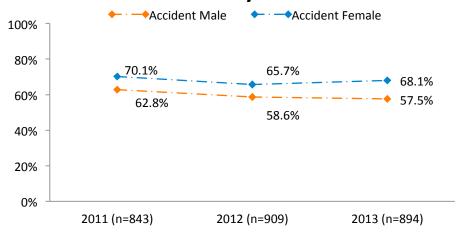


Gender

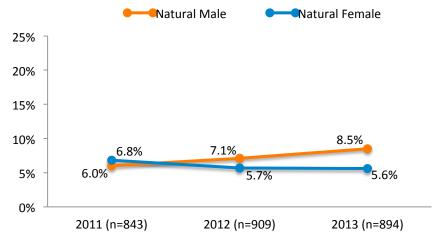
There were 270 females and 624 males whose substance-related deaths were recorded by the Clark County Coroner's Office in 2013. Males were more likely to commit suicide (33.3%) than females (24.8%), while females were more likely to die as an accident (68.1%) compared to males (57.5%).



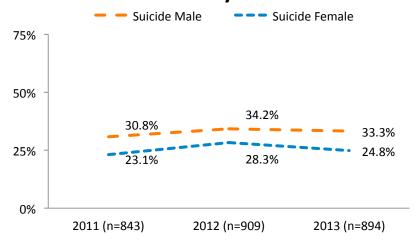
Accident Deaths by Gender and Year



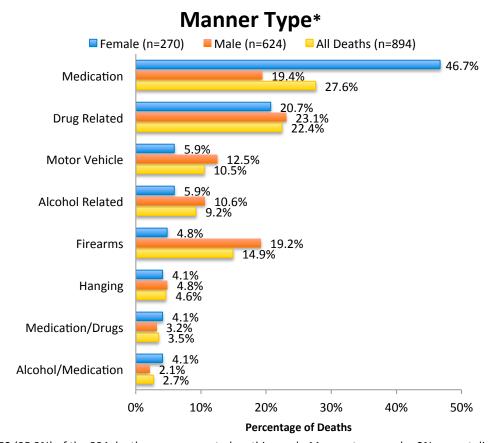
Natural Deaths by Gender and Year



Suicide Deaths by Gender and Year



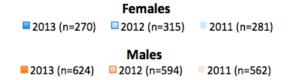
The following graph displays manner types of death by gender compared to the average.

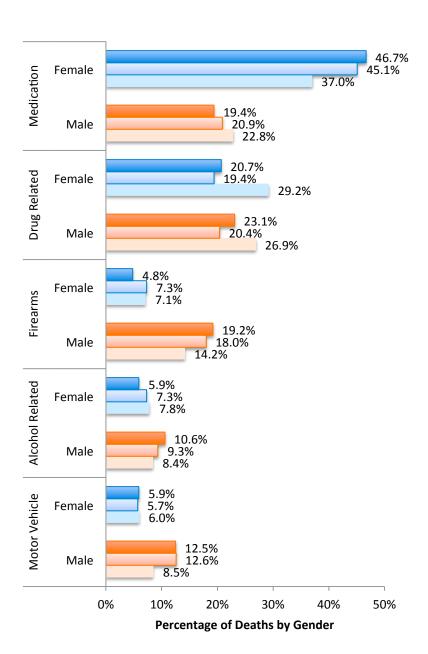


*Only 852 (95.3%) of the 894 deaths are represented on this graph. Manner types under 2% are not displayed.

| Manner Type by Gender | Female (n=270) | Male (n=624) | All Deaths (n=894) |
|-------------------------|----------------|---------------------|--------------------|
| Alcohol Related | 5.9% | 10.6% | 9.2% |
| Alcohol-Drug Related | 1.5% | 1.8% | 1.7% |
| Alcohol/Medication | 4.1% | 2.1% | 2.7% |
| Asphyxia | 0.0% | 0.5% | 0.3% |
| Carbon Monoxide | 0.0% | 0.5% | 0.3% |
| Cutting/Stabbing | 0.4% | 1.0% | 0.8% |
| Drug Related | 20.7% | 23.1% | 22.4% |
| Fire | 0.0% | 0.2% | 0.1% |
| Firearms | 4.8% | 19.2% | 14.9% |
| Hanging | 4.1% | 4.8% | 4.6% |
| Inhalant Related | 0.4% | 0.0% | 0.1% |
| Jumping | 0.7% | 0.6% | 0.7% |
| Medication | 46.7% | 19.4% | 27.6% |
| Medication/Drugs | 4.1% | 3.2% | 3.5% |
| Motor Vehicle | 5.9% | 12.5% | 10.5% |
| Poisoning | 0.4% | 0.0% | 0.1% |
| Suffocation | 0.4% | 0.5% | 0.4% |
| Toxicology | 0.0% | 0.2% | 0.1% |

Top 5 Manner Type Comparison for Deaths by Gender from 2011-2013

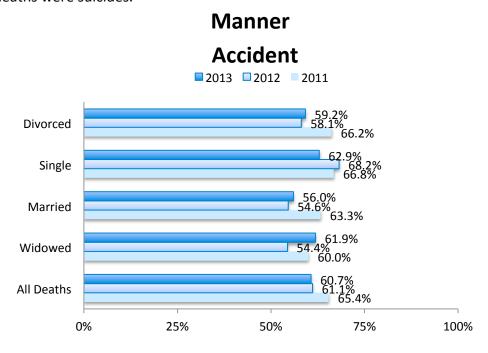


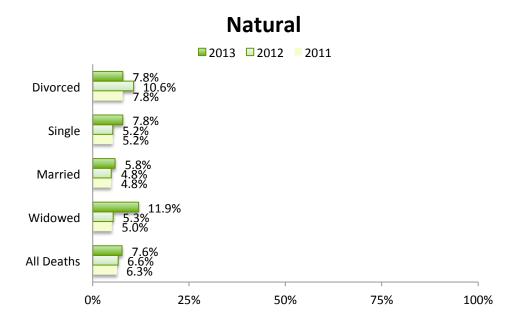


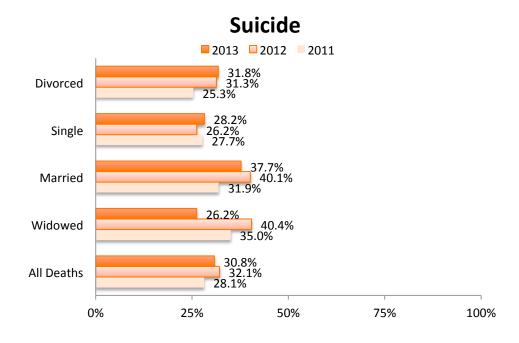
Marital Status

There were 348 single, 191 married, 179 divorced, 42 widowed, and 134 persons with unknown marital status whose substance-related deaths were recorded by the Clark County Coroner's Office in 2013.

Accident deaths account for 62.9% of deceased singles, 11.9% of those who were widowed were natural deaths, 31.8% of those who were divorced committed suicide, and 37.7% of married deaths were suicides.







Marital Status by Manner

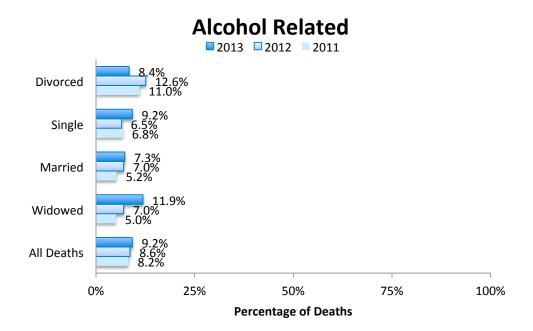
| | Year | Accident | Natural | Suicide |
|------------|---------------------|----------|---------|---------|
| | 2011 (n=154) | 66.2% | 7.8% | 25.3% |
| Divorced | 2012 (n=198) | 58.1% | 10.6% | 31.3% |
| | 2013 (n=179) | 59.2% | 7.8% | 31.8% |
| | 2011 (n=368) | 66.8% | 5.2% | 27.7% |
| Single | 2012 (n=324) | 68.2% | 5.2% | 26.2% |
| | 2013 (n=348) | 62.9% | 7.8% | 28.2% |
| | 2011 (n=210) | 63.3% | 4.8% | 31.9% |
| Married | 2012 (n=227) | 54.6% | 4.8% | 40.1% |
| | 2013 (n=191) | 56.0% | 5.8% | 37.7% |
| | 2011 (n=40) | 60.0% | 5.0% | 35.0% |
| Widowed | 2012 (n=57) | 54.4% | 5.3% | 40.4% |
| | 2013 (n=42) | 61.9% | 11.9% | 26.2% |
| All Deaths | 2011 (n=844) | 65.4% | 6.3% | 28.1% |
| | 2012 (n=910) | 61.1% | 6.6% | 32.1% |
| | 2013 (n=894) | 60.7% | 7.6% | 30.8% |

Manner Type*

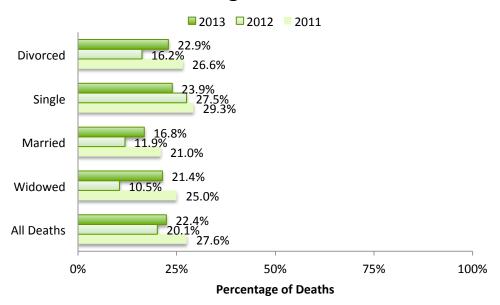
| | Divorced (n=179) | Single (n=348) | Married (n=191) | Widowed (n=42) | All Deaths (n=894) |
|---------------------|-------------------------|-------------------|--------------------|-------------------|-----------------------|
| Alcohol Related | 8.4% | 9.2% | 7.3% | 11.9% | 9.2% |
| Alcohol/Medication | 2.8% | 2.6% | 2.6% | 2.4% | 2.7% |
| Drug Related | 22.9% | 23.9% | 16.8% | 21.4% | 22.4% |
| Firearms | 17.3% | 12.4% | 18.8% | 11.9% | 14.9% |
| Hanging | 1.7% | 5.5% | 6.3% | 0.0% | 4.6% |
| Medication | 34.1% | 25.9% | 31.4% | 45.2% | 27.6% |
| Medication/Drugs | 3.9% | 4.3% | 2.6% | 0.0% | 3.5% |
| Motor Vehicle | 5.6% | 12.1% | 7.9% | 7.1% | 10.5% |

^{*}Only 852 (95.3%) of the 894 deaths are represented on this table. Manner types under 2% are not displayed.

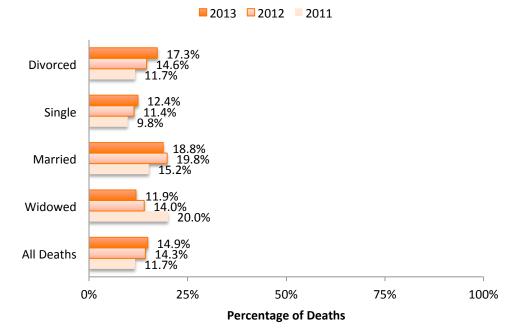
Selected manner type graphs by marital status are below. In 2013, of those who were single 9.2% were alcohol-related deaths, 22.9% of those who were divorced were drug related deaths, 18.8% of married deaths and 17.3% of divorcee deaths were firearm related, and of those who were widowed 45.2% of deaths were medication related.



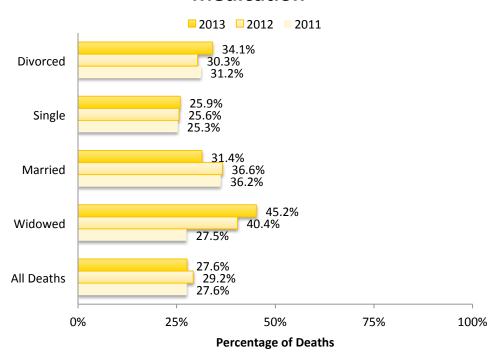
Drug Related





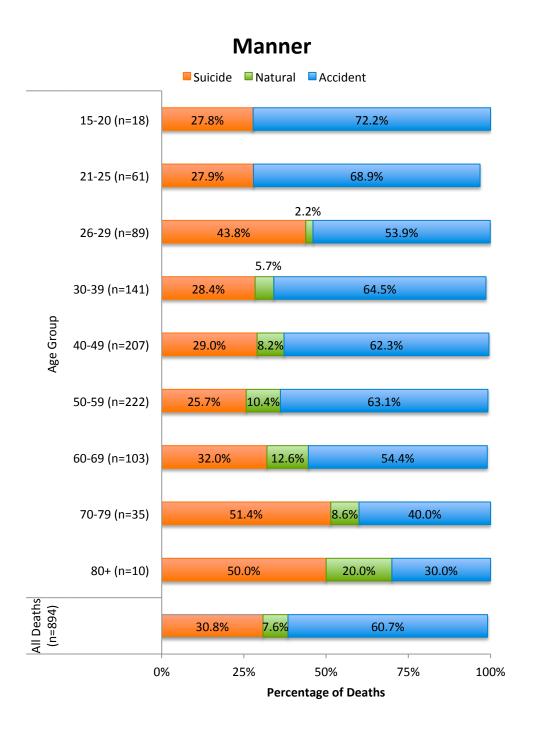


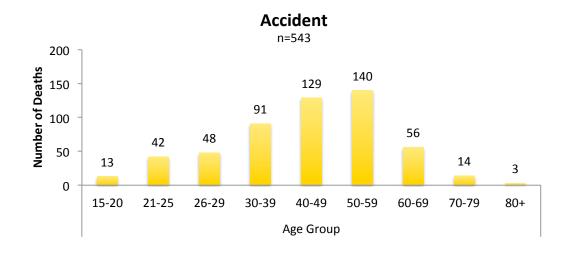
Medication

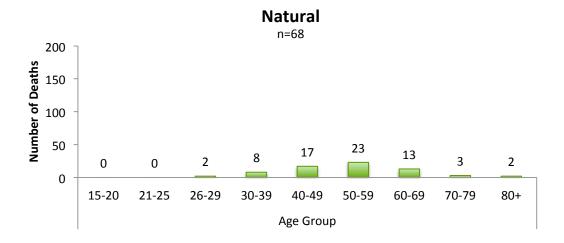


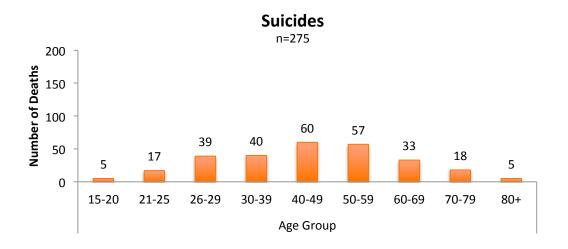
Age Groups

The following graphs are broken into age groups. The deaths of those 14 and under (n=8) are not included on the following graphs, only one of these deaths was classified as a suicide and the other 7 deaths were classified as accident manner type.









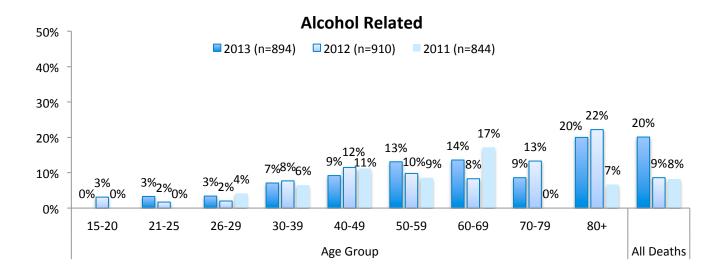
Manner Type*

| Age Group | 0-14 | 15-20 | 21-25 | 26-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80 + | All Deaths |
|----------------------|-------|--------|--------|--------|---------|---------|---------|---------|--------|-------------|------------|
| | (n=8) | (n=18) | (n=61) | (n=89) | (n=141) | (n=207) | (n=222) | (n=103) | (n=35) | (n=10) | (n=894) |
| Alcohol Related | - | - | 3.3% | 3.4% | 7.1% | 9.2% | 13.1% | 13.6% | 8.6% | 20.0% | 9.2% |
| Alcohol/Medication | - | - | 3.3% | 1.1% | 2.1% | 1.9% | 4.1% | 3.9% | 2.9% | - | 2.7% |
| Drug Related | 75.0% | 16.7% | 23.0% | 18.0% | 21.3% | 27.5% | 25.2% | 13.6% | 8.6% | 10.0% | 22.4% |
| Firearms | - | 16.7% | 13.1% | 27.0% | 12.1% | 9.7% | 13.1% | 19.4% | 25.7% | 30.0% | 14.9% |
| Hanging | - | - | 4.9% | 9.0% | 6.4% | 6.3% | 3.6% | - | - | - | 4.6% |
| Medication | 12.5% | 5.6% | 14.8% | 18.0% | 36.9% | 27.1% | 25.7% | 35.9% | 45.7% | 20.0% | 27.6% |
| Medication/Drugs | - | - | 1.6% | 2.2% | 3.5% | 3.9% | 4.5% | 4.9% | - | - | 3.5% |
| Motor Vehicle | 12.5% | 50.0% | 29.5% | 18.0% | 6.4% | 8.7% | 6.8% | 3.9% | 5.7% | 20.0% | 10.5% |

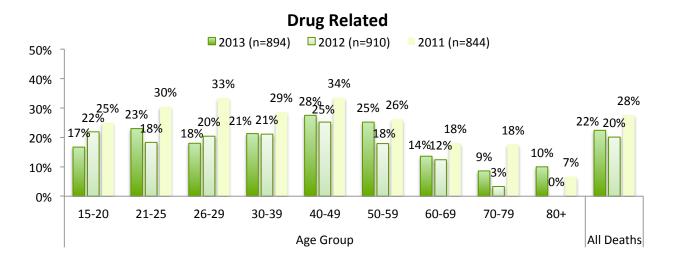
^{*}Only 852 (95.3%) of the 894 deaths are represented on this table. Manner types under 2% are not displayed.

Select Manner Type Graphs

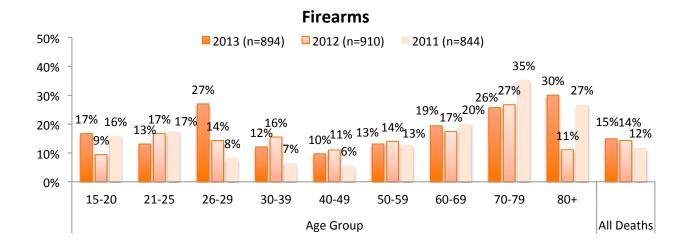
In 2013, 9.2% of deaths were alcohol related compared to 8.2% in 2011 and 8.6% in 2012.



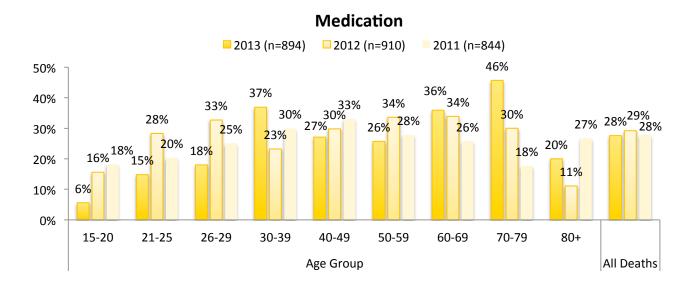
In 2013, 22.4% of deaths were drug related compared to 27.6% in 2011 and 20.1% in 2012.



In 2013, 14.9% of deaths were due to firearms compared to 11.8% in 2011 and 14.3% in 2012.



In 2013, 27.6% of deaths were due to medication compared to 27.7% in 2011 and 29.2% in 2012.

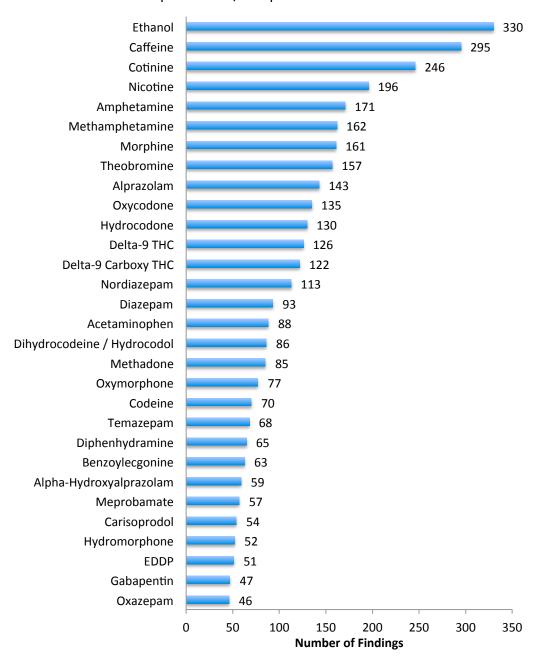


Toxicology Findings

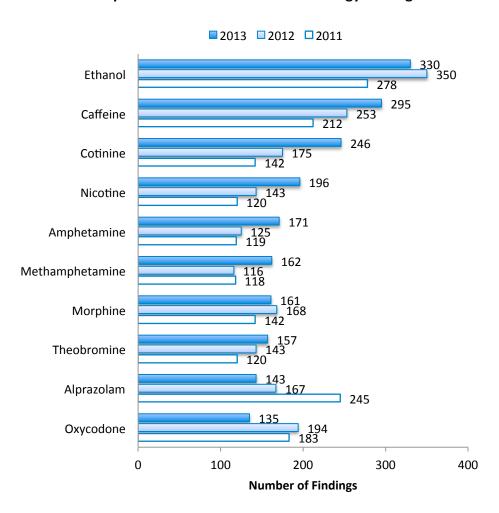
The following section has the toxicology findings for the 894 deaths analyzed in this report. Toxicology screens often found more than one compound (up to as many as 25 toxins) in the decedents. Some of the toxins contributed to death, while others were not necessarily at lethal levels. The following graph has the top 30 toxins found in the toxicology findings (for details about the top 30 toxins see Appendix B).

Toxicology Findings



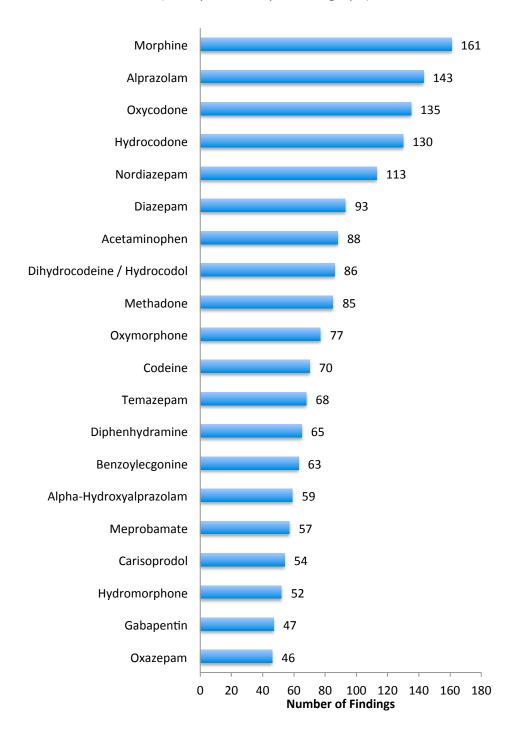


Top 10 Toxins from 2013 Compared with 2011 and 2012 Toxicology Findings



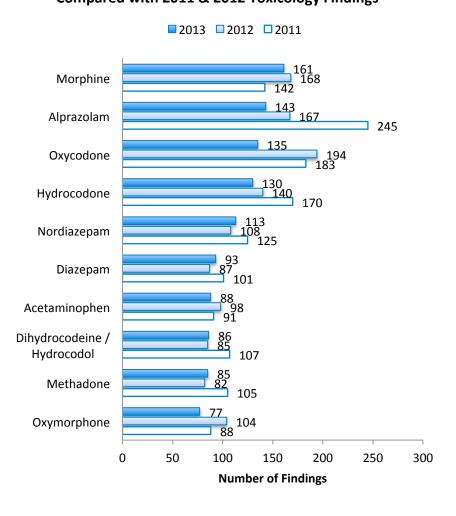
Top Toxicological Compounds including Prescriptions

(Excerpted from previous graph)



Top 10 Toxicological Compounds 2013

including Prescriptions
Compared with 2011 & 2012 Toxicology Findings



The following table has the list of toxicology findings for the 894 substance related deaths, ordered by number of deceased that were found with positive findings for each substance. This list can also be found in Appendix A in alphabetical order.

| Ethanol 330 Caffeine 295 Cotinine 246 Nicotine 196 Amphetamine 171 Methamphetamine 162 Morphine 161 Theobromine 157 Alprazolam 143 Oxycodone 135 Hydrocodone 130 Delta-9 THC 126 Delta-9 Carboxy THC 122 Nordiazepam 113 Diazepam 93 Acetaminophen 88 Dihydrocodeine / Hydrocodol 86 Methadone 85 Oxymorphone 77 Codeine 70 Temazepam 68 |
|--|
| Cotinine 246 Nicotine 196 Amphetamine 171 Methamphetamine 162 Morphine 161 Theobromine 157 Alprazolam 143 Oxycodone 135 Hydrocodone 130 Delta-9 THC 126 Delta-9 Carboxy THC 122 Nordiazepam 113 Diazepam 93 Acetaminophen 88 Dihydrocodeine / Hydrocodol 86 Methadone 85 Oxymorphone 77 Codeine 70 Temazepam 68 |
| Nicotine 196 Amphetamine 171 Methamphetamine 162 Morphine 161 Theobromine 157 Alprazolam 143 Oxycodone 135 Hydrocodone 130 Delta-9 THC 126 Delta-9 Carboxy THC 122 Nordiazepam 113 Diazepam 93 Acetaminophen 88 Dihydrocodeine / Hydrocodol 86 Methadone 85 Oxymorphone 77 Codeine 70 Temazepam 68 |
| Amphetamine 171 Methamphetamine 162 Morphine 161 Theobromine 157 Alprazolam 143 Oxycodone 135 Hydrocodone 130 Delta-9 THC 126 Delta-9 Carboxy THC 122 Nordiazepam 113 Diazepam 93 Acetaminophen 88 Dihydrocodeine / Hydrocodol 86 Methadone 85 Oxymorphone 77 Codeine 70 Temazepam 68 |
| Methamphetamine 162 Morphine 161 Theobromine 157 Alprazolam 143 Oxycodone 135 Hydrocodone 130 Delta-9 THC 126 Delta-9 Carboxy THC 122 Nordiazepam 113 Diazepam 93 Acetaminophen 88 Dihydrocodeine / Hydrocodol 86 Methadone 85 Oxymorphone 77 Codeine 70 Temazepam 68 |
| Methamphetamine 162 Morphine 161 Theobromine 157 Alprazolam 143 Oxycodone 135 Hydrocodone 130 Delta-9 THC 126 Delta-9 Carboxy THC 122 Nordiazepam 113 Diazepam 93 Acetaminophen 88 Dihydrocodeine / Hydrocodol 86 Methadone 85 Oxymorphone 77 Codeine 70 Temazepam 68 |
| Theobromine 157 Alprazolam 143 Oxycodone 135 Hydrocodone 130 Delta-9 THC 126 Delta-9 Carboxy THC 122 Nordiazepam 113 Diazepam 93 Acetaminophen 88 Dihydrocodeine / Hydrocodol 86 Methadone 85 Oxymorphone 77 Codeine 70 Temazepam 68 |
| Alprazolam 143 Oxycodone 135 Hydrocodone 130 Delta-9 THC 126 Delta-9 Carboxy THC 122 Nordiazepam 113 Diazepam 93 Acetaminophen 88 Dihydrocodeine / Hydrocodol 86 Methadone 85 Oxymorphone 77 Codeine 70 Temazepam 68 |
| Oxycodone 135 Hydrocodone 130 Delta-9 THC 126 Delta-9 Carboxy THC 122 Nordiazepam 113 Diazepam 93 Acetaminophen 88 Dihydrocodeine / Hydrocodol 86 Methadone 85 Oxymorphone 77 Codeine 70 Temazepam 68 |
| Hydrocodone130Delta-9 THC126Delta-9 Carboxy THC122Nordiazepam113Diazepam93Acetaminophen88Dihydrocodeine / Hydrocodol86Methadone85Oxymorphone77Codeine70Temazepam68 |
| Delta-9 THC126Delta-9 Carboxy THC122Nordiazepam113Diazepam93Acetaminophen88Dihydrocodeine / Hydrocodol86Methadone85Oxymorphone77Codeine70Temazepam68 |
| Delta-9 Carboxy THC 122 Nordiazepam 113 Diazepam 93 Acetaminophen 88 Dihydrocodeine / Hydrocodol 86 Methadone 85 Oxymorphone 77 Codeine 70 Temazepam 68 |
| Nordiazepam113Diazepam93Acetaminophen88Dihydrocodeine / Hydrocodol86Methadone85Oxymorphone77Codeine70Temazepam68 |
| Nordiazepam113Diazepam93Acetaminophen88Dihydrocodeine / Hydrocodol86Methadone85Oxymorphone77Codeine70Temazepam68 |
| Acetaminophen 88 Dihydrocodeine / Hydrocodol 86 Methadone 85 Oxymorphone 77 Codeine 70 Temazepam 68 |
| Dihydrocodeine / Hydrocodol86Methadone85Oxymorphone77Codeine70Temazepam68 |
| Methadone85Oxymorphone77Codeine70Temazepam68 |
| Oxymorphone77Codeine70Temazepam68 |
| Codeine 70 Temazepam 68 |
| Temazepam 68 |
| |
| |
| Diphenhydramine 65 |
| Benzoylecgonine 63 |
| Alpha-Hydroxyalprazolam 59 |
| Meprobamate 57 |
| Carisoprodol 54 |
| Hydromorphone 52 |
| EDDP 51 |
| Gabapentin 47 |
| Beta-Phenethylamine 46 |
| Oxazepam 46 |
| Cyclobenzaprine 41 |
| 7-Amino Clonazepam 40 |
| Ibuprofen 38 |
| Norcyclobenzaprine 37 |
| 6-Monoacetylmorphine - Free 35 |
| Citalopram / Escitalopram 35 |
| Cocaine 33 |
| Zolpidem 31 |

| Toxicology Screen Findings (con't) | Number of Positive Findings |
|------------------------------------|-----------------------------|
| Desmethylsertraline | 28 |
| Lorazepam | 28 |
| Nortriptyline | 27 |
| Phenylpropanolamine | 27 |
| Sertraline | 27 |
| Quetiapine | 26 |
| Tramadol | 26 |
| Trazodone | 25 |
| Amitriptyline | 25 |
| Cannabinoids | 25 |
| Norfluoxetine | 24 |
| Noroxycodone | 24 |
| Clonazepam | 23 |
| O-Desmethyltramadol | 23 |
| Atropine | 21 |
| Methylecgonine | 20 |
| Dextro / Levo Methorphan | 18 |
| Fluoxetine | 18 |
| Levamisole | 18 |
| Acetone | 17 |
| Cocaethylene | 17 |
| Lidocaine | 17 |
| Naproxen | 17 |
| Butalbital | 16 |
| Chlordiazepoxide | 15 |
| Hydroxyzine | 15 |
| Amlodipine | 14 |
| 6-MAM - Free | 13 |
| Doxylamine | 13 |
| Promethazine | 13 |
| Fentanyl | 12 |
| Hydroxycotinine | 12 |
| Norfentanyl | 12 |
| O-Desmethylvenlafaxine | 12 |
| Theophylline | 12 |
| Topiramate | 12 |
| Venlafaxine | 12 |
| Norpseudoephedrine | 11 |
| Phenobarbital | 10 |
| 11-Hydroxy Delta-9 THC | 9 |
| Hydroxybupropion | 9 |
| Lamotrigine | 9 |

| Toxicology Screen Findings (con't) | Number of Positive Findings |
|------------------------------------|-----------------------------|
| Metoprolol | 9 |
| Norbuprenorphine - Free | 9 |
| Propoxyphene | 9 |
| Bupropion | 8 |
| Desmethylmirtazapine | 8 |
| Etomidate | 8 |
| Isopropanol | 8 |
| Midazolam | 8 |
| Mirtazapine | 8 |
| Monoethylglycinexylidide (MEGX) | 8 |
| Olanzapine | 8 |
| Phentermine | 8 |
| Carboxyhemoglobin | 7 |
| Chlorpheniramine | 7 |
| Desmethylcitalopram | 7 |
| Dextrorphan / Levorphanol | 7 |
| Ephedrine | 7 |
| Ethylecgonine | 7 |
| Levetiracetam | 7 |
| Pseudoephedrine | 7 |
| Duloxetine | 6 |
| Guaifenesin | 6 |
| Hydroxyethylflurazepam | 6 |
| Trimethoprim | 6 |
| Buprenorphine - Free | 5 |
| Diltiazem | 5 |
| Gamma-Hydroxybutyric Acid | 5 |
| Methylephedrine | 5 |
| Metoclopramide | 5 |
| Phencyclidine | 5 |
| Quinine | 5 |
| 10-Hydroxycarbazepine | 4 |
| Doxepin | 4 |
| Fluconazole | 4 |
| Norcodeine | 4 |
| Paroxetine | 4 |
| Phenytoin | 4 |
| Verapamil | 4 |
| 1,1-Difluoroethane | 3 |
| Carbamazepine | 3 |
| Carbamazepine-10, 11 Epoxide | 3 |
| Descarboethoxyloratadine | 3 |

| Toxicology Screen Findings (con't) | Number of Positive Findings |
|------------------------------------|-----------------------------|
| Desmethyldoxepin | 3 |
| Donepezil | 3 |
| EMDP | 3 |
| Loratadine | 3 |
| Methocarbamol | 3 |
| Norpropoxyphene | 3 |
| Oxcarbazepine | 3 |
| Pentobarbital | 3 |
| Antimony | 2 |
| Carbon Monoxide | 2 |
| Cyanide | 2 |
| Haloperidol | 2 |
| Hydroxychloroquine | 2 |
| Iron | 2 |
| Lead | 2 |
| MDA | 2 |
| MDMA | 2 |
| Metaxalone | 2 |
| Normeperidine | 2 |
| Opiates | 2 |
| Pregabalin | 2 |
| Propofol | 2 |
| Ropinirole | 2 |
| Selenium | 2 |
| Tapentadol - Free | 2 |
| Triazolam | 2 |
| 1-Hydroxymidazolam | 1 |
| 7-Hydroxymitragynine | 1 |
| Alpha-Chlordane | 1 |
| Atomoxetine | 1 |
| Baclofen | 1 |
| Benztropine | 1 |
| Betahydroxybutyric Acid | 1 |
| Bismuth | 1 |
| Buspirone | 1 |
| Chlorpromazine | 1 |
| Clonidine | 1 |
| Cyproheptadine | 1 |
| Desalkylflurazepam | 1 |
| Eszopiclone / Zopiclone | 1 |
| Flurazepam | 1 |
| Gemfibrozil | 1 |

| Toxicology Screen Findings (con't) | Number of Positive Findings |
|------------------------------------|-----------------------------|
| Lacosamide | 1 |
| Laudanosine | 1 |
| Meperidine | 1 |
| Methorphan | 1 |
| Methoxychlor | 1 |
| Mitragynine | 1 |
| Nifedipine | 1 |
| Orphenadrine | 1 |
| Phenazepam | 1 |
| Phenmetrazine | 1 |
| Prochlorperazine | 1 |
| Tadalafil | 1 |
| Ticlopidine | 1 |
| Warfarin | 1 |

Conclusion

This report describes the substance related deaths in Clark County for the most recent three-year period. The data provided can inform decisions of policy makers, municipal and county planners, and public health advocates. This report aims to assist in appropriately identifying and prioritizing trends and emerging issues in Clark County.

This report also highlights the prevalence of compounds that are prescribed and found in common medications in typical households in every community in the United States. The effects of the misuse of these prescription drugs, and the corresponding rise in deaths due to their misuse, or to their interaction with other legal substances, and sometimes their interaction with illicit substances, continue to impact communities throughout the country. Drug related deaths have been rising steadily over the past two decades and have become the leading cause of injury death in the United States.

Prescription drug use/misuse continues to be a growing epidemic for Clark County - indiscriminate to age, race, social class, economic status, or geographic location; accounting for many of these deaths involving opioid analgesics (prescription painkillers) and benzodiazepines. We hope this publication will help inform Nevada's on-going conversation about what can be done to address this crisis.

Appendix A

Toxicology Screen FindingsToxicology Screen Findings in alphabetical order

| Toxicology Screen Findings | Number of Positive Findings |
|------------------------------|-----------------------------|
| 1-Hydroxymidazolam | 1 |
| 1,1-Difluoroethane | 3 |
| 10-Hydroxycarbazepine | 4 |
| 11-Hydroxy Delta-9 THC | 9 |
| 6-MAM - Free | 13 |
| 6-Monoacetylmorphine - Free | 35 |
| 7-Amino Clonazepam | 40 |
| 7-Hydroxymitragynine | 1 |
| Acetaminophen | 88 |
| Acetone | 17 |
| Alpha-Chlordane | 1 |
| Alpha-Hydroxyalprazolam | 59 |
| Alprazolam | 143 |
| Amitriptyline | 25 |
| Amlodipine | 14 |
| Amphetamine | 171 |
| Antimony | 2 |
| Atomoxetine | 1 |
| Atropine | 21 |
| Baclofen | 1 |
| Benzoylecgonine | 63 |
| Benztropine | 1 |
| Beta-Phenethylamine | 46 |
| Betahydroxybutyric Acid | 1 |
| Bismuth | 1 |
| Buprenorphine - Free | 5 |
| Bupropion | 8 |
| Buspirone | 1 |
| Butalbital | 16 |
| Caffeine | 295 |
| Cannabinoids | 25 |
| Carbamazepine | 3 |
| Carbamazepine-10, 11 Epoxide | 3 |
| Carbon Monoxide | 2 |
| Carboxyhemoglobin | 7 |
| Carisoprodol | 54 |
| Chlordiazepoxide | 15 |
| Chlorpheniramine | 7 |
| Chlorpromazine | 1 |
| • | 35 |
| Citalopram / Escitalopram | 23 |
| Clonazepam | 25 |

| Toxicology Screen Findings (con't) | Number of Positive Findings |
|------------------------------------|-----------------------------|
| Clonidine | 1 |
| Cocaethylene | 17 |
| Cocaine | 33 |
| Codeine | 70 |
| Cotinine | 246 |
| Cyanide | 2 |
| Cyclobenzaprine | 41 |
| Cyproheptadine | 1 |
| Delta-9 Carboxy THC | 122 |
| Delta-9 THC | 126 |
| Desalkylflurazepam | 1 |
| Descarboethoxyloratadine | 3 |
| Desmethylcitalopram | 7 |
| Desmethyldoxepin | 3 |
| | |
| Desmethylmirtazapine | 8 |
| Desmethylsertraline | 28 |
| Dextro / Levo Methorphan | 18 |
| Dextrorphan / Levorphanol | 7 |
| Diazepam | 93 |
| Dihydrocodeine / Hydrocodol | 86 |
| Diltiazem | 5 |
| Diphenhydramine | 65 |
| Donepezil | 3 |
| Doxepin | 4 |
| Doxylamine | 13 |
| Duloxetine | 6 |
| EDDP | 51 |
| EMDP | 3 |
| Ephedrine | 7 |
| Eszopiclone / Zopiclone | 1 |
| Ethanol | 330 |
| Ethylecgonine | 7 |
| Etomidate | 8 |
| Fentanyl | 12 |
| Fluconazole | 4 |
| Fluoxetine | 18 |
| Flurazepam | 1 |
| Gabapentin | 47 |
| Gamma-Hydroxybutyric Acid | 5 |
| Gemfibrozil | 1 |
| Guaifenesin | 6 |
| Haloperidol | 2 |
| Hydrocodone | 130 |
| Hydromorphone | 52 |
| Hydroxybupropion | 9 |
| Τιγαιολγυαριορίστι | 9 |

| Hydroxycotinine 1 Hydroxycotinine 12 Hydroxycytine 6 Hydroxyzine 15 Ibuprofen 38 Iron 2 Isopropanol 8 Lacosamide 1 Lamotrigine 9 Laudanosine 1 Lead 2 Levamisole 18 Levetiracetam 7 Lidocaine 17 Loratadine 3 Lorazepam 28 MDA 2 Meperidine 1 Meperidine 1 Meperidine 1 Metprobamate 57 Metaxalone 2 Methadone 85 Methamphetamine 162 Methocarbamol 3 Methorphan 1 Methogonine 20 Methylephedrine 5 Metocolopramide 5 Metogrolol 9 Midazolam | Toxicology Screen Findings (con't) | Number of Positive Findings |
|--|------------------------------------|-----------------------------|
| Hydroxycthine 12 Hydroxycthyfflurazepam 6 Hydroxycine 15 Ibuprofen 38 Iron 2 Isopropanol 8 Lacosamide 1 Lamotrigine 9 Laudanosine 1 Lead 2 Levamisole 18 Levetiracetam 7 Lidocaine 17 Lorazepam 2 MDA 2 MDA 2 Meprobamate 3 Meprobamate 57 Metasalone 2 Methadone 85 Methogramide 162 Methorphan 1 Methogramide 5 Methogramide 5 Methylephedrine 5 Metoclopramide 5 Metoclopramide 5 Metocloprolol 9 Midazolam 8 Mitragapine 1 Morophine | | 2 |
| Hydroxyzine 6 Hydroxyzine 15 Ibuprofen 38 Iron 2 Isopropanol 8 Lacosamide 1 Lamotrigine 9 Laudanosine 1 Lead 2 Levamisole 18 Levetiracetam 7 Lidocaine 17 Lorazepam 28 MDA 2 MDA 2 Meperolamate 5 Meprobamate 5 Metaxalone 2 Methadone 85 Methamphetamine 162 Methocarbamol 3 Methorphan 1 Methoychlor 1 Methylephedrine 5 Metoprolol 9 Midazolam 8 Mitragynine 1 Morophine 161 Maproxen 17 Nicotine 196 Nifedipine 1 < | | 12 |
| Hydroxyzine 15 Ibuprofen 38 170 2 2 180propanol 8 1 1 1 1 1 1 1 1 1 | | |
| Ibuprofen 38 Iron 2 Isopropanol 8 Lacosamide 1 Lamotrigine 9 Laudanosine 1 Lead 2 Levamisole 18 Levetiracetam 7 Lidocaine 17 Lorazepam 28 MDA 2 MDA 2 MDMA 2 Meperidine 1 Metporbamate 57 Metasalone 2 Methadone 85 Methamphetamine 162 Methocarbamol 3 Methocyphan 1 Methoxychlor 1 Methoxychlor 1 Methylephedrine 5 Metoclopramide 5 Metoprolol 9 Midazolam 8 Mitragynine 1 Morphine 161 Naproxen 17 Nicotine 196 <td></td> <td></td> | | |
| Iron | | |
| Isopropanol 8 Lacosamide 1 Lamotrigine 9 Laudanosine 1 Lead 2 Levamisole 18 Levetiracetam 7 Lidocaine 17 Lorazepam 28 MDA 2 MDMA 2 Meperidine 1 Meprobamate 57 Metasalone 2 Methadone 85 Methamphetamine 162 Methocarbamol 3 Methorphan 1 Methylegonine 20 Methylegonine 20 Methyleghedrine 5 Metoclopramide 5 Metoprolol 9 Midazolam 8 Mirtazapine 8 Mirtazapine 8 Morphine 161 Naproxen 17 Nicotine 196 Nifedipine 1 Norbuyenorphine - Free <td>·</td> <td></td> | · | |
| Lacosamide 1 Lamotrigine 9 Laudanosine 1 Lead 2 Levamisole 18 Levetiracetam 7 Lidocaine 17 Loratadine 3 Lorazepam 28 MDA 2 MDMA 2 Meperidine 1 Meprobamate 57 Metasalone 2 Methadone 85 Methadone 85 Methorphan 1 Methocrabamol 3 Methorychlor 1 Methylegonine 20 Methylephedrine 5 Metoclopramide 5 Metoprolol 9 Midazolam 8 Mirtazapine 8 Mirtazapine 8 Mirtagynine 1 Monoethylglycinexylidide (MEGX) 8 Morphine 161 Naproxen 17 Nicotine | | |
| Lamberrigine 9 Laudanosine 1 Lead 2 Levamisole 18 Levetiracetam 7 Lidocaine 17 Loratadine 3 Lorazepam 28 MDA 2 MEDA 2 Meperidine 1 Meprobamate 57 Metaxalone 2 Methandone 85 Methandhetamine 162 Methocarbamol 3 Methorychan 1 Methocychlor 1 Methylegegonine 20 Methylephedrine 5 Metoprolol 9 Midazolam 8 Mirtazapine 8 Mirtazapine 8 Morphine 161 Naproxen 17 Nicotine 161 Naproxen 17 Nicotine 16 Norrozodeine 4 Norcyclobenzaprine | | |
| Laudanosine 1 Lead 2 Levamisole 18 Levetiracetam 7 Lidocaine 17 Lorazepam 28 MDA 2 MDMA 2 Meperidine 1 Meperbamate 57 Metasalone 2 Methadone 85 Methadone 85 Methorphan 1 Methorphan 1 Methorychlor 1 Methyleptedrine 5 Metogrolol 9 Midazolam 8 Midrazapine 8 Mitrazapine 8 Morphine 1 Monoethylglycinexylidide (MEGX) 8 Morphine 161 Naproxen 17 Nicotine 196 Nifedipine 1 Norbuprenorphine - Free 9 Norcyclobenzaprine 37 Norcyclobenzaprine 12 | | |
| Lead 2 Levetiracetam 7 Lidocaine 17 Loratadine 3 Lorazepam 28 MDA 2 MDMA 2 Meperidine 1 Meprobamate 57 Metaxalone 2 Methadone 85 Methadone 85 Methocarbamol 3 Methocychlor 1 Methylegonine 20 Methylegonine 5 Metoclopramide 5 Metoprolol 9 Midazolam 8 Mitrazapine 8 Mitrazynine 1 Monoethylglycinexylidide (MEGX) 8 Morphine 161 Naproxen 17 Nicotine 196 Nifedipine 1 Norbuprenorphine - Free 9 Norcyclobenzaprine 37 Nordiazepam 113 Norfeitanyl 12 | | |
| Levamisole 18 Levetiracetam 7 Lidocaine 17 Loratadine 3 Lorazepam 28 MDA 2 MDMA 2 Meperidine 1 Meprobamate 57 Metaxalone 2 Methadone 85 Methamphetamine 162 Methocarbamol 3 Methorphan 1 Methoylegonine 20 Methyleghedrine 5 Metoclopramide 5 Metoclopramide 5 Metoclopramide 5 Midazolam 8 Mitrazynine 1 Mitrazynine 1 Morobille 9 Morphine 161 Naproxen 17 Nicotine 196 Nifedipine 1 Norbuprenorphine - Free 9 Norcyclobenzaprine 37 Norcyclobenzaprine 112 | | |
| Levetiracetam 7 Lidocaine 17 Lorazepam 3 MDA 2 MDMA 2 MEDMA 1 Meperidine 1 Meprobamate 57 Metaxalone 2 Methadone 85 Methamphetamine 162 Methocarbamol 3 Methorychlor 1 Methylecgonine 20 Methylephedrine 5 Metoprolol 9 Midazolam 8 Mirtazapine 8 Mirtagynine 1 Morphine 161 Naproxen 17 Nicotine 196 Nifedipine 1 Norcyclobenzaprine 37 Norrdozepam 113 Norfentanyl 12 | | |
| Lidocaine 17 Lorazepam 28 MDA 2 MDMA 2 Meperidine 1 Meperobamate 57 Metaxalone 2 Methadone 85 Methamphetamine 162 Methocarbamol 3 Methorychlor 1 Methylecgonine 20 Methylephedrine 5 Metoprolol 9 Midazolam 8 Mirtazapine 8 Mirtagynine 1 Monoethylglycinexylidide (MEGX) 8 Morphine 161 Naproxen 17 Nicotine 196 Nifedipine 1 Norcyclobenzaprine 37 Norcyclobenzaprine 13 Norfordazepam 113 Norfentanyl 12 | | |
| Loratadine 3 Lorazepam 28 MDA 2 MDMA 2 Meperidine 1 Meprobamate 57 Metaxalone 2 Methadone 85 Methamphetamine 162 Methocarbamol 3 Methorphan 1 Methoxychlor 1 Methylepedrine 5 Metoclopramide 5 Metogramide 5 Metogramide 9 Midazolam 8 Mirtrazapine 8 Mitragynine 1 Morphine 161 Naproxen 17 Nicotine 196 Nifedipine 1 Nortodeine 4 Norcyclobenzaprine 37 Nordiazepam 113 Norfentanyl 12 | | |
| Lorazepam 28 MDA 2 MDMA 2 Meperidine 1 Meprobamate 57 Metavalone 2 Methadone 85 Methamphetamine 162 Methocarbamol 3 Methorphan 1 Methylecgonine 20 Methylephedrine 5 Metoclopramide 5 Metogrolol 9 Midazolam 8 Mitragynine 1 Monoethylglycinexylidide (MEGX) 8 Morphine 161 Naproxen 17 Nicotine 196 Nifedipine 1 Norcodeine 4 Norcyclobenzaprine 37 Nordiazepam 113 Norfentanyl 12 | | |
| MDA 2 MDMA 2 Meperidine 1 Meprobamate 57 Metaxalone 2 Methadone 85 Methamphetamine 162 Methocarbamol 3 Methorphan 1 Methylergonine 20 Methylephedrine 5 Metoclopramide 5 Metogrolol 9 Midazolam 8 Mirtazapine 8 Mirtazapine 8 Morphine 161 Naproxen 17 Nicotine 196 Nifedipine 1 Norcodeine 4 Norcyclobenzaprine 37 Nordiazepam 113 Norfentanyl 12 | | |
| MDMA 2 Meperidine 1 Meprobamate 57 Metaxalone 2 Methadone 85 Methamphetamine 162 Methocarbamol 3 Methorphan 1 Methoxychlor 1 Methylegegonine 20 Methylephedrine 5 Metoclopramide 5 Metoprolol 9 Midazolam 8 Mitragynine 1 Monoethylglycinexylidide (MEGX) 8 Morphine 161 Naproxen 17 Nicotine 196 Nifedipine 1 Norbuprenorphine - Free 9 Norcodeine 4 Norcyclobenzaprine 37 Nordiazepam 113 Norfentanyl 12 | · | |
| Meperidine 1 Meprobamate 57 Metaxalone 2 Methadone 85 Methamphetamine 162 Methocarbamol 3 Methorphan 1 Methoxychlor 1 Methylegonine 20 Methylephedrine 5 Metoclopramide 5 Metoprolol 9 Midazolam 8 Mitragynine 1 Monoethylglycinexylidide (MEGX) 8 Morphine 161 Naproxen 17 Nicotine 196 Nifedipine 1 Norbuprenorphine - Free 9 Norcodeine 4 Norcyclobenzaprine 37 Nordiazepam 113 Norfentanyl 12 | | |
| Metprobamate 57 Metaxalone 2 Methadone 85 Methamphetamine 162 Methocarbamol 3 Methorphan 1 Methoxychlor 1 Methylecgonine 20 Methylephedrine 5 Metoclopramide 5 Metoprolol 9 Midazolam 8 Mirtazapine 8 Mitragynine 1 Monoethylglycinexylidide (MEGX) 8 Morphine 161 Naproxen 17 Nicotine 196 Nifedipine 1 Norbuprenorphine - Free 9 Norcodeine 4 Norcyclobenzaprine 37 Nordiazepam 113 Norfentanyl 12 | | |
| Metaxalone 2 Methadone 85 Methamphetamine 162 Methocarbamol 3 Methorphan 1 Methoxychlor 1 Methylecgonine 20 Methylephedrine 5 Metoclopramide 5 Metoprolol 9 Midazolam 8 Mirtazapine 8 Mitragynine 1 Monoethylglycinexylidide (MEGX) 8 Morphine 161 Naproxen 17 Nicotine 196 Nifedipine 1 Norbuprenorphine - Free 9 Norcodeine 4 Norcyclobenzaprine 37 Nordiazepam 113 Norfentanyl 12 | · | |
| Methadone 85 Methamphetamine 162 Methocarbamol 3 Methorphan 1 Methoxychlor 1 Methylecgonine 20 Methylephedrine 5 Metoclopramide 5 Metoprolol 9 Midazolam 8 Mirtazapine 8 Mitragynine 1 Monoethylglycinexylidide (MEGX) 8 Morphine 161 Naproxen 17 Nicotine 196 Nifedipine 1 Norbuprenorphine - Free 9 Norcodeine 4 Norcyclobenzaprine 37 Nordiazepam 113 Norfentanyl 12 | | |
| Methamphetamine 162 Methocarbamol 3 Methorphan 1 Methoxychlor 1 Methylecgonine 20 Methylephedrine 5 Metoclopramide 5 Metoprolol 9 Midazolam 8 Mirtazapine 8 Mitragynine 1 Monoethylglycinexylidide (MEGX) 8 Morphine 161 Naproxen 17 Nicotine 196 Nifedipine 1 Norbuprenorphine - Free 9 Norcodeine 4 Norcyclobenzaprine 37 Nordiazepam 113 Norfentanyl 12 | | |
| Methocarbamol 3 Methorphan 1 Methoxychlor 1 Methylecgonine 20 Methylephedrine 5 Metoclopramide 5 Metoprolol 9 Midazolam 8 Mirtazapine 8 Mitragynine 1 Monoethylglycinexylidide (MEGX) 8 Morphine 161 Naproxen 17 Nicotine 196 Nifedipine 1 Norbuprenorphine - Free 9 Norcodeine 4 Norcyclobenzaprine 37 Nordiazepam 113 Norfentanyl 12 | | |
| Methorphan 1 Methoxychlor 1 Methylecgonine 20 Methylephedrine 5 Metoclopramide 5 Metoprolol 9 Midazolam 8 Mirtazapine 8 Mitragynine 1 Monoethylglycinexylidide (MEGX) 8 Morphine 161 Naproxen 17 Nicotine 196 Nifedipine 1 Norbuprenorphine - Free 9 Norcodeine 4 Norcyclobenzaprine 37 Nordiazepam 113 Norfentanyl 12 | · | |
| Methoxychlor 1 Methylecgonine 20 Methylephedrine 5 Metoclopramide 5 Metoprolol 9 Midazolam 8 Mirtazapine 8 Mirtagynine 1 Monoethylglycinexylidide (MEGX) 8 Morphine 161 Naproxen 17 Nicotine 196 Nifedipine 1 Norbuprenorphine - Free 9 Norcodeine 4 Norcyclobenzaprine 37 Nordiazepam 113 Norfentanyl 12 | | |
| Methylegonine 20 Methylephedrine 5 Metoclopramide 5 Metoprolol 9 Midazolam 8 Mirtazapine 8 Mitragynine 1 Monoethylglycinexylidide (MEGX) 8 Morphine 161 Naproxen 17 Nicotine 196 Nifedipine 1 Norbuprenorphine - Free 9 Norcodeine 4 Norcyclobenzaprine 37 Nordiazepam 113 Norfentanyl 12 | • | 1 |
| Methylephedrine 5 Metoclopramide 5 Metoprolol 9 Midazolam 8 Mirtazapine 8 Mitragynine 1 Monoethylglycinexylidide (MEGX) 8 Morphine 161 Naproxen 17 Nicotine 196 Nifedipine 1 Norbuprenorphine - Free 9 Norcodeine 4 Norcyclobenzaprine 37 Nordiazepam 113 Norfentanyl 12 | • | |
| Metoclopramide5Metoprolol9Midazolam8Mirtazapine8Mitragynine1Monoethylglycinexylidide (MEGX)8Morphine161Naproxen17Nicotine196Nifedipine1Norbuprenorphine - Free9Norcodeine4Norcyclobenzaprine37Nordiazepam113Norfentanyl12 | | 20 |
| Metoprolol9Midazolam8Mirtazapine8Mitragynine1Monoethylglycinexylidide (MEGX)8Morphine161Naproxen17Nicotine196Nifedipine1Norbuprenorphine - Free9Norcodeine4Norcyclobenzaprine37Nordiazepam113Norfentanyl12 | <u> </u> | 5 |
| Midazolam8Mirtazapine8Mitragynine1Monoethylglycinexylidide (MEGX)8Morphine161Naproxen17Nicotine196Nifedipine1Norbuprenorphine - Free9Norcodeine4Norcyclobenzaprine37Nordiazepam113Norfentanyl12 | | 5 |
| Mirtazapine8Mitragynine1Monoethylglycinexylidide (MEGX)8Morphine161Naproxen17Nicotine196Nifedipine1Norbuprenorphine - Free9Norcodeine4Norcyclobenzaprine37Nordiazepam113Norfentanyl12 | Metoprolol | 9 |
| Mitragynine1Monoethylglycinexylidide (MEGX)8Morphine161Naproxen17Nicotine196Nifedipine1Norbuprenorphine - Free9Norcodeine4Norcyclobenzaprine37Nordiazepam113Norfentanyl12 | Midazolam | 8 |
| Monoethylglycinexylidide (MEGX)8Morphine161Naproxen17Nicotine196Nifedipine1Norbuprenorphine - Free9Norcodeine4Norcyclobenzaprine37Nordiazepam113Norfentanyl12 | Mirtazapine | 8 |
| Morphine 161 Naproxen 17 Nicotine 196 Nifedipine 1 Norbuprenorphine - Free 9 Norcodeine 4 Norcyclobenzaprine 37 Nordiazepam 113 Norfentanyl 12 | Mitragynine | 1 |
| Naproxen 17 Nicotine 196 Nifedipine 1 Norbuprenorphine - Free 9 Norcodeine 4 Norcyclobenzaprine 37 Nordiazepam 113 Norfentanyl 12 | Monoethylglycinexylidide (MEGX) | 8 |
| Nicotine196Nifedipine1Norbuprenorphine - Free9Norcodeine4Norcyclobenzaprine37Nordiazepam113Norfentanyl12 | Morphine | 161 |
| Nifedipine1Norbuprenorphine - Free9Norcodeine4Norcyclobenzaprine37Nordiazepam113Norfentanyl12 | Naproxen | 17 |
| Norbuprenorphine - Free9Norcodeine4Norcyclobenzaprine37Nordiazepam113Norfentanyl12 | Nicotine | 196 |
| Norbuprenorphine - Free9Norcodeine4Norcyclobenzaprine37Nordiazepam113Norfentanyl12 | | |
| Norcodeine4Norcyclobenzaprine37Nordiazepam113Norfentanyl12 | | |
| Norcyclobenzaprine37Nordiazepam113Norfentanyl12 | | |
| Nordiazepam 113 Norfentanyl 12 | | |
| Norfentanyl 12 | | |
| | · | |
| NOTHOUSELING 24 | Norfluoxetine | 24 |
| Normeperidine 2 | | |

| Toxicology Screen Findings (con't) | Number of Positive Findings |
|------------------------------------|-----------------------------|
| Noroxycodone | 24 |
| Norpropoxyphene | 3 |
| Norpseudoephedrine | 11 |
| Nortriptyline | 27 |
| O-Desmethyltramadol | 23 |
| O-Desmethylvenlafaxine | 12 |
| Olanzapine | 8 |
| Opiates | 2 |
| Orphenadrine | 1 |
| Oxazepam | 46 |
| Oxcarbazepine | 3 |
| Oxycodone | 135 |
| Oxymorphone | 77 |
| Paroxetine | 4 |
| Pentobarbital | 3 |
| Phenazepam | 1 |
| Phencyclidine | 5 |
| Phenmetrazine | 1 |
| Phenobarbital | 10 |
| Phentermine | 8 |
| Phenylpropanolamine | 27 |
| Phenytoin | 4 |
| Pregabalin | 2 |
| Prochlorperazine | 1 |
| Promethazine | 13 |
| Propofol | 2 |
| Propoxyphene | 9 |
| Pseudoephedrine | 7 |
| Quetiapine | 26 |
| Quinine | 5 |
| Ropinirole | 2 |
| Selenium | 2 |
| Sertraline | 27 |
| Tadalafil | 1 |
| Tapentadol - Free | 2 |
| Temazepam | 68 |
| Theobromine | 157 |
| Theophylline | 12 |
| Ticlopidine | 1 |
| Topiramate | 12 |
| Tramadol | 26 |
| Trazodone | 25 |
| Triazolam | 2 |
| Trimethoprim | 6 |
| Venlafaxine | 12 |
| Verapamil | 4 |
| Warfarin | 1 |
| Zolpidem | 31 |

Appendix B

Toxicology Glossary

Details of substance and usage from the top 30 toxins found in the toxicology findings in alphabetical order (see next page). Schedules were defined using the Nevada Administrative Code (http://www.leg.state.nv.us/nac/NAC-453.html#NAC453Sec510).

| | | | Toxicology Glossary | |
|----|-------------------------------|-------------------------|--|---|
| | Substance | Schedule | Usage | Description/Physical Effects |
| 1 | Acetaminophen | Other | Pain relief, fever reducer | Pain relief |
| 2 | Alpha-Hydroxyalprazolam | IV | Treats anxiety, panic disorder, insomnia, anxiety caused by depression | Anti-anxiety and sedative-hypnotic drugs. Found in Xanax, Alprazolam |
| 3 | Alprazolam | IV | Treats anxiety, panic disorder, insomnia, anxiety caused by depression | Anti-anxiety and sedative-hypnotic drug |
| 4 | Amphetamine | II | Performance enhancer | Psychostimulant increases wakefulness, focus, decreases fatigue & appetite |
| 5 | Benzoylecgonine | l | In prescription drug Esterom. Topical analgesic | Main metabolite of cocaine |
| 6 | Caffeine | Other | Stimulant | Bitter, white crystalline xanthine alkaloid in beverages (coffees, teas) |
| 7 | Carisoprodol | IV | Muscle relaxant treats pain, injuries, musculoskeletal conditions | Sedative, muscle relaxant |
| 8 | Codeine | I | Treats pain, cough. Opioid. Used recreationally as depressant | Narcotic pain reliever |
| 9 | Cotinine | Other | Detect accuracy of self-reported non-smoking. Recreationally snorted, smoked | Alkaloid found in tobacco; metabolite of nicotine |
| 10 | Delta-9 Carboxy THC | I | Recreationally smoked, ingested as marijuana | Ingredient of marijuana |
| 11 | Delta-9THC | I | Recreationally smoked, ingested as marijuana | Ingredient of marijuana |
| 12 | Diazepam | IV | Treats anxiety, muscle spasms, and seizures. Recreationally as depressant | Valium |
| 13 | Dihydrocodeine/ Hydrocodol | I-IV based upon dose | Treats pain, severe shortness of breath, cough suppressant | Semi-synthetic opioid analgesic |
| 14 | Diphenhydramine | Other | Anticonvulsant, depressant, muscle relaxants, sedatives, antihistamine | Oral: Tranquilizers, sleep inducers, motion sickness, Parkinson's disease, seasonal allergies |
| 15 | EDDP | II | Methadone treatment for chronic pain, substance abuse | Primary metabolite in methadone |

| 16 | Ethanol | Other | Recreational drinking | Alcohol, ethyl alcohol, pure alcohol, grain alcohol, or drinking alcohol, is a volatile, flammable, colorless liquid |
|----|-----------------|-------|--|--|
| 17 | Gabapentin | Other | Anti-epileptic, anticonvulsant. Treatment for seizures, nerve pain of herpes, shingles | Active ingredient: Neurontin; oral: nerve pain, seizure control, insomnia, bipolar disorder |
| 18 | Hydrocodone | II | Treats moderate to severe pain | Narcotic pain reliever often prescribed with acetaminophen |
| 19 | Hydromorphone | II | Treats moderate to severe pain | Oral, injectable; Narcotic pain reliever derived from morphine; also Dilaudid |
| 20 | Meprobamate | IV | Treats tension, anxiety, nervousness. Tablets used recreationally | Sedative may cause drowsiness, dizziness, blurred vision |
| 21 | Methadone | II | Severe pain. Reduces withdrawal symptoms for heroin, RX painkiller addiction | Opioid pain reliever derived from heroin |
| 22 | Methamphetamine | I | Treats ADHD, obesity. Recreationally: intravenous, insufflation, inhalation, suppository | Central nervous system stimulant. Rapid heart rate, shortness of breath, confusion, dizziness |
| 23 | Morphine | II | Treats moderate to severe pain. Rapid-release morphine used for immediate pain relief | Narcotic pain reliever |
| 24 | Nicotine | Other | Provides nicotine to replace cigarettes (Nicorette, Nicoderm, Nicotrol, Nicorelief, Commit.) Smoked, insufflated, chewed, transdermal, vaporized | Alkaloid from nightshade family of plants acts as a nicotinic acetylcholine receptor agonist. |
| 25 | Nordiazepam | IV | Anticonvulsant, anxiolytic, muscle relaxant and sedative properties | Also desoxydemoxepam, and desmethyldiazepam |
| 26 | Oxazepam | IV | Anticonvulsant, anti-anxiety, used to treat irritable bowel syndrome | Benzodiazepine; aka Serax. May cause dizziness, drowsiness, irregular heartbeat, breathing difficulty |
| 27 | Oxycodone | II | Treats moderate to severe pain. Rapid-release oxycodone used for immediate pain relief. Recreationally as depressant | Narcotic derived from poppy seeds |
| 28 | Oxymorphone | II | Treats moderate to severe pain | Narcotic pain reliever, semi-synthetic opioid analgesic |
| 29 | Temazepam | IV | Insomnia | Benzodiazepine |
| 30 | Theobromine | Other | Diuretic, stimulant, lowers blood pressure, cough medicine | Alkaloid of the cacao plant found in chocolate, tea, cola nuts |