

2018



**MEDICAL EXAMINER'S
STATISTICAL REPORT**

CUYAHOGA COUNTY, OHIO



2018

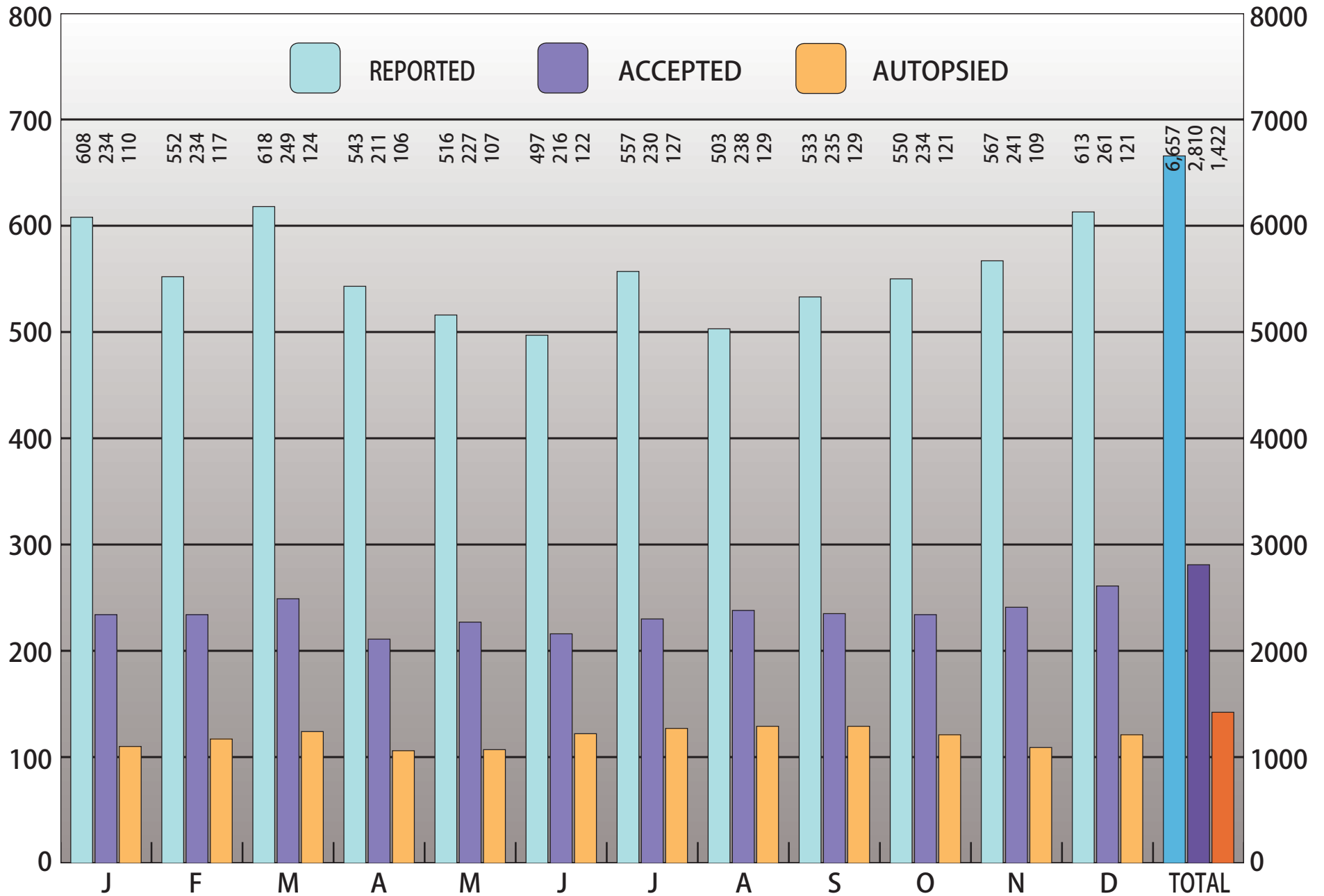
Cuyahoga County Medical Examiner's Statistical Report

Armond Budish, Cuyahoga County Executive

Thomas P. Gilson, M.D., Medical Examiner

Samuel R. Gerber Building, 11001 Cedar Avenue, Cleveland, Ohio 44106

2018 NUMBER OF MEDICAL EXAMINER'S CASES



2018 TABLE OF CONTENTS

NUMBER OF CASES REPORTED, ACCEPTED, AND AUTOPSIED	2
INTRODUCTION	7
TRENDS.....	13
SUMMARY OF MEDICAL EXAMINER'S CASES.....	45
ACCIDENTS IN THE HOME	57
ACCIDENTS WHILE AT WORK.....	80
ACCIDENTS IN OTHER PLACES.....	86
VEHICULAR ACCIDENTS.....	105
HOMICIDES	143
SUICIDES	157
NATURAL CAUSES	169
UNDETERMINED MANNER.....	182
ADMINISTRATION	189
GENERAL OFFICE	195
HISTOLOGY.....	197
INVESTIGATION	199
MEDICAL SECRETARIES	201
PATHOLOGY	203
PHOTOGRAPHY	207
REGIONAL FORENSIC SCIENCE LABORATORY	211
DRUG CHEMISTRY	213
FINGERPRINTS.....	220
FIREARMS & TOOLMARKS.....	222
FORENSIC DNA	225
PARENTAGE AND IDENTIFICATION	229
TOXICOLOGY	231
TRACE EVIDENCE.....	248
LIFEBANC.....	250
LECTURES	254
PUBLICATIONS	260
ABOUT THE MEDICAL EXAMINER'S STATISTICAL REPORT.....	261

TABLE NO.		PAGE NO.
	INTRODUCTION	
—	Letter of Transmittal.....	7
—	Foreword	9
—	Accreditations.....	10
—	What is a Medical Examiner's Case?.....	11
—	Medical Examiner's Organizational Chart.....	12

TABLE NO.		PAGE NO.
	TRENDS	
—	Cuyahoga County Opiate Initiative.....	13
—	Cuyahoga County Sexual Assault Policy	19
A	Types of Fatalities and Miscellaneous Information - 2017 and 2018 Compared	26
B	Types of Fatalities - Gender, Race, Ethnicity, Autopsy	27
C	Types of Fatalities - 2017 and 2018 Incidence Compared	28
D	Types of Fatalities - Ethanol Incidence	29
E	Vehicular Fatalities - Daily Ethanol Incidence	30
F	Distribution of Selected Medical Examiner's Cases in Each Municipality - Cuyahoga County.....	31
G	Deaths in County, Deaths Reported to Medical Examiner, Cases Received 1940 - 2018.....	33
H	Types of Fatalities Summary 1940 - 2018	36
I	Trauma Cases Transported from Other Counties.....	39
J	Autopsies Performed for Other Counties	40
—	Population of Cuyahoga County by Cities, Villages, Townships, and Districts (2010 Census).....	43
	SUMMARY OF MEDICAL EXAMINER'S CASES	
1	Summary of All Fatalities by Type and Location with some Miscellaneous Data	46
2	Total Cases by Month and Type of Fatality	47
3	Autopsies by Month and Type of Fatality.....	48
4	Total Cases by Age Groups and Type of Fatality	49
5	Autopsies by Age Groups and Type of Fatality	50
6A	Geographical Location - All Fatalities.....	51
6A-6B	Geographical Location - All Fatalities.....	52
6B-7	Geographical Location - All Fatalities.....	53
8	Accidental Fatalities by Month	54
9	Homicides and Suicides - Fatalities by Month.....	55
	ACCIDENTS IN THE HOME	
10	Fatalities Resulting from Accidents in the Home - Monthly Ethanol Incidence	61
11	Age - Race - Ethnicity - Ethanol Incidence	62
12	Mode - Ethanol Incidence	65
13	Mode - Ethanol Incidence	66
14	Mode - Ethanol Incidence	67
15	Mode - Age Groups.....	77
16	Falls - Ethanol Incidence.....	78
17	Falls - Age Groups	79

2018 TABLE OF CONTENTS (continued)

TABLE NO.		PAGE NO.
	ACCIDENTS WHILE AT WORK	
18	Fatalities Resulting from Accidents at Work - Monthly Ethanol Incidence.....	82
19	Age - Race - Ethnicity - Ethanol Incidence	83
20	Mode - Ethanol Incidence	84
21	Mode - Age Groups	85
	ACCIDENTS IN OTHER PLACES	
22	Fatalities Resulting from Accidents in Other Places - Monthly Ethanol Incidence.....	90
23	Age - Race - Ethnicity - Ethanol Incidence	91
24	Mode - Ethanol Incidence.....	96
25	Mode - Ethanol Incidence	97
26	Mode - Ethanol Incidence	98
27	Mode - Age Groups	101
28	Falls - Ethanol Incidence	102
29	Falls - Age Groups	103
	VEHICULAR ACCIDENTS	
30	Classification of Victims - Ethanol Incidence	112
31	Drivers-Age of Victims - Ethanol Incidence	112
32	Monthly Ethanol Incidence	113
33	Daily Ethanol Incidence	114
34	Age - Race - Ethnicity - Ethanol Incidence	115
35	Type of Accident - Ethanol Incidence	117
36	Non-traffic - Ethanol Incidence.....	117
37	Traffic - Collision - Ethanol Incidence	118
37A	Traffic - Collision - Ethanol Incidence - Drivers.....	119
37B	Traffic - Collision - Ethanol Incidence - Motorcyclists	119
37C	Traffic - Collision - Ethanol Incidence - Passengers	120
37D	Traffic - Collision - Ethanol Incidence - Pedestrians.....	120
38	Traffic - Non-Collision - Ethanol Incidence	121
39	Vehicular Fatalities While at Work	
	Traffic and Non-traffic - Monthly Ethanol Incidence	122
40	Weather Conditions - Ethanol Incidence	122
41	Road Conditions - Ethanol Incidence	123
42	Light Conditions - Ethanol Incidence	123
43	Classification of Victims - Age Groups	124
44	Month and Age Groups	124
45	Autopsies - Month and Age Groups.....	125
46	Major Injury and Survival Interval	126
47	Major Injury and Survival Interval - Age Groups	127

TABLE NO.		PAGE NO.
	ACCIDENTS WHILE AT WORK	
47A	Major Injury and Survival Interval - Age Groups - Drivers	128
47B	Major Injury and Survival Interval - Age Groups - Motorcyclists	129
47C	Major Injury and Survival Interval - Age Groups - Passengers.....	130
47D	Major Injury and Survival Interval - Age Groups - Pedestrians.....	131
48A	Geographical Location - Type of Accident	
	Classification of Victims (Cities)	132
48B	Geographical Location - Type of Accident	
	Classification of Victims (Villages, etc.).....	134
48C	Geographical Location - Type of Accident	
	Classification of Victims (Out of County)	135
49	Hourly - Daily - Ethanol Incidence - All Cases.....	136
49A	Hourly - Daily - Ethanol Incidence - Drivers	137
49B	Hourly - Daily - Ethanol Incidence - Motorcyclists	138
49C	Hourly - Daily - Ethanol Incidence - Passengers.....	139
49D	Hourly - Daily - Ethanol Incidence - Pedestrians.....	140
50	Hourly and Daily Incidence Arranged by Classification	141
51	Hourly and Daily Incidence Arranged According by Age Groups.....	142
	HOMICIDES	
52	Monthly Ethanol Incidence	146
53	Age - Race - Ethnicity - Ethanol Incidence	147
54	Mode - Ethanol Incidence.....	151
55	Mode - Age Groups	152
56	During Legal Intervention - Place of Occurrence -	
	Circumstances - Assaultants - Victims - Ethanol Incidence	153
57A	Place of Occurrence - Home Circumstances -	
	Assaultants - Victims - Ethanol Incidence	154
57B	Place of Occurrence - Public Circumstances -	
	Assaultants - Victims - Ethanol Incidence	155
58	Homicides in Cuyahoga County, 1992 - 2018.....	156
	SUICIDES	
59	Monthly Ethanol Incidence	160
60	Age - Race - Ethnicity - Ethanol Incidence	161
61	Mode - Ethanol Incidence.....	163
62	Mode - Ethanol Incidence.....	164
63	Poisoning - Ethanol Incidence	165
64	Mode - Age Groups	166
65	Mode - Geographical Location and Marital Status	167
66	Monthly Ethanol Incidence	170

2018 TABLE OF CONTENTS (continued)

TABLE NO.		PAGE NO.	TABLE NO.		PAGE NO.
	NATURAL CAUSES				
67	Age - Race - Ethnicity - Ethanol Incidence	171	82	Incidence of Poisoning in Tested Individuals.....	234
68	International Code of Causes of Death by Month.....	175	83	Samples Received from Outside Referring Agencies.....	234
69	Autopsies - International Code of Causes of Death by Month.....	176	84	Incidence and Frequency of Positive Findings.....	235
70	Month and Age Groups	177	85	Incidence of Analytes in Positive Cases 2016 - 2018.....	241
71	Autopsies - Month and Age Groups	178	86	Testing Frequency by Drug Groups	245
72	International Code of Causes of Death Listed by Age Groups.....	179	—	Agents Included in Drug Groups	246
73	Autopsies - International Code of Causes of Death by Age Groups.....	180	87	Proficiency Studies	247
	UNDETERMINED MANNER		—	Trace Evidence Unit Report.....	248
74	Monthly Ethanol Incidence	183		ADDITIONAL INFORMATION	
75	Age - Race - Ethnicity - Ethanol Incidence	184	—	LifeBanc.....	250
76	Mode - Ethanol Incidence.....	186	—	Lectures.....	254
77	Mode - Age Groups	187	—	Publications	260
	OTHER MEDICAL EXAMINER'S DEPARTMENT REPORTS		—	About the 2018 Medical Examiner's Statistical Report	261
—	Administration Report.....	189	—	Credits.....	262
—	Medicolegal Death Scene Investigation Training Program.....	191		ILLUSTRATIONS	
—	Community Outreach Programs	193		Comparison of Most Common Overdose Drugs 2015 - 2018	18
—	General Office Report	195		Rape Kits Received by Month for the Year 2018	20
—	Histology Laboratory Report	197		Types of Cases Received 2018.....	21
78	Histology Laboratory Report	198		Fatalities from Violence for the Year 2018.....	22
—	Investigative Unit Report	199		Fatalities from Accidents for the Year 2018	23
—	Medical Secretaries Report.....	201		Fatalities from Homicides for the Year 2018.....	24
—	Pathology Department Report	203		Fatalities from Suicides for the Year 2018.....	25
—	Radiology Report.....	205		Total of All Deaths in Cuyahoga County 2009 - 2018	44
—	Photography Unit Report.....	207		Summary of Medical Examiner's Cases (Graphs)	45
	REGIONAL FORENSIC SCIENCE LABORATORY REPORTS			Accidents in the Home (Graphs)	57
—	Cuyahoga County Regional Forensic Science Laboratory Report.....	211		Fatalities Resulting from Accidents and Accidental Falls in the Home 2009 - 2018.....	60
—	Drug Chemistry Section Report.....	213		Accidents While at Work (Graphs)	80
79	Caseload by Submitting Agency.....	215		Fatalities Resulting from Accidents and Accidental Falls While at Work 2009 - 2018.....	81
80	Controlled Substance Result Frequency.....	216		Accidents in Other Places (Graphs)	86
81	Controlled Substance Amounts Reported	218		Fatalities Resulting from Accidents and Accidental Falls in Other Places 2009 - 2018.....	89
—	Fingerprints Unit Report.....	220		Vehicular Accidents (Graphs).....	105
—	Firearms & Toolmarks Unit Report.....	222		Blood Ethanol Concentration by Weight.....	108
—	Forensic DNA Unit Report.....	225		Vehicular Fatalities, Daily Incidence (Graphs)	109
—	Parentage and Identification Department Report.....	229		Vehicular Fatalities, Daily Ethanol Incidence (Graphs).....	110
—	Toxicology Laboratory Report.....	231			

2018 TABLE OF CONTENTS (continued)

TABLE NO.	PAGE NO.
Vehicular Fatalities - Age Groups - Classification of Victims (Graphs)	111
Homicides (Graphs)	143
Suicides (Graphs)	157
Natural Causes (Graphs).....	169
Undetermined Manner (Graphs).....	182
Community Outreach Visitors to the CCMEQ	194
Investigative Unit (Graphs)	200
Pathology Case Completion Rate	204
Total Number of Radiographs 2009 - 2018	206
Total Number of Recorded Images 2009 - 2018	208
Recorded Images by Month.....	208
Images by Manner of Death.....	209
Total Number of Released Images 2009 - 2018.....	210
Released Images by Month	210
Drug Chemistry (Graphs).....	214
Fingerprints (Graphs)	221
Firearms & Toolmarks (Graphs).....	223
Forensic DNA (Graphs)	226
Combined DNA Index System (CODIS).....	227
Parentage and Identification Department (Graphs).....	230
Toxicology Laboratory (Graphs)	232
Toxicology Cases Submitted by Type 2018	233
Incident of Positive Findings from All Medical Examiner's Cases.....	242
Incident of Positive Findings from Poisoning Fatalities	243
Substances Involved in Fatal Poisonings.....	244
Trace Evidence Unit (Graphs).....	249
Lifebank Tissue Donors	251

MAPS

— 2018 Opiate Deaths - Location of Incident by City.....	14
— 2018 Opiate Deaths - Location of Incident by Council District.....	15
— 2018 Opiate Deaths - Residence Address by City.....	16
— 2018 Opiate Deaths - Residence Address by Council District	17
Map 1 Distribution of Medical Examiner's Cases by City per 1,000 Population.....	41
Map 2 Distribution of Fatalities from Accidents in the Home by City.....	58
Map 3 Distribution of Fatalities from Accidents in Other Places by City	87

TABLE NO.	PAGE NO.
Map 4 Distribution of Vehicular Fatalities by City.....	106
Map 5 Distribution of Homicides by City.....	144
Map 6 Distribution of Suicides by City.....	158
— 2018 Distribution of MDI Training Participants by County.....	192

PHOTOGRAPHS

CCMEQ Inaugural Citizens Academy Spring Class	8
Cleveland Botanical Garden	56
Big Creek Parkway, Brooklyn.....	104
Asian Lantern Festival, Cleveland Metroparks Zoo.....	168
Cuyahoga River, Independence.....	181
Steamship William G. Mather, Voinovich Bicentennial Park.....	188
FirstEnergy Stadium, Cleveland	196
Cleveland Museum of Art.....	202
CCMEQ Fitness Center Ribbon Cutting.....	212
Full Moon, Brecksville.....	224
Downtown Cleveland	228
Erie Court and East 9th Street, Cleveland	252
Medicaid Funding Press Conference	253



Thomas P. Gilson, M.D.

Medical Examiner

This eightieth annual report of the Cuyahoga County Medical Examiner's Office and Regional Forensic Sciences Laboratory has been prepared in accordance with our tradition of commitment and accountability to our community. It is our mission to provide the highest level of professional service to the residents of Cuyahoga County and the report that follows documents the scope of our activity to achieving this goal.

In 2018, the agency continued its mission to the health of the community by ongoing efforts to address the opioid crisis. For the first time in several years drug deaths declined over the preceding year. The Toxicology and Drug Chemistry Departments complemented the investigative efforts of the Medical Examiner functions and together all provided critical information to health and safety initiatives. This required dedication on the part of the entire staff.

The year also saw national attention focus on importance of the investigation of sexual assault. The emergence of the "MeToo" did much to bring this important issue out of the shadows and front and center in the view of county residents and the nation at large. Sadly, it still the case that a large number of these crimes go unreported or are poorly investigated. A crime laboratory is an essential part of this effort and the agency remains committed to bringing the highest level of quality to support this work. Integrating advances in DNA technology and performing analysis of data on wide-ranging topics like intimate partner homicide and workplace violence are some of the ways the agency and its staff respond to this problem. It is to the survivors of these crimes that we pledge our ongoing best efforts and dedicate this report.

CCMEO INAUGURAL CITIZENS ACADEMY SPRING CLASS



Photograph by G. Wilson

This report is primarily a statistical summary of our experience. The information set forth conforms to the established patterns of previous reports so that comparisons can be made readily. The tabular format is identical with earlier reports. New tables, charts and maps have been added to further emphasize certain data.

All cases recorded here have been summarized from various aspects. Cases are basically classified according to the official Medical Examiner's Verdict as to the manner of death. Thus, the following categories are used:

**ACCIDENTS IN THE HOME
ACCIDENTS WHILE AT WORK
VEHICULAR ACCIDENTS
ACCIDENTS IN OTHER PLACES
HOMICIDES
SUICIDES
NATURAL CAUSES
CAUSE AND ORIGIN UNDETERMINED**

Cases are further subdivided according to geographical location, monthly incidence, mode, sex, race, age, and ethnicity of victims, and ethanol incidence by month, sex, race, and mode. Additional relationships are indicated through specific tables for various types of cases.

Persons desiring further information should direct their requests to the Medical Examiner. Every effort will be made to supply data requested.

ACCREDITATIONS

The Cuyahoga County Medical Examiner's Office and the Cuyahoga County Regional Forensic Science Laboratory aspire to the highest standards of our profession. The office and laboratories have received the following accreditations at the time of publication:



American Association of Blood Banks (AABB) - AABB advances the practice and standards of transfusion medicine and cellular therapies to optimize patient and donor care and safety. There are over 40 AABB-accredited laboratories in the U.S. that offer DNA testing to verify a stated biological relationship.



American Board of Forensic Toxicology (ABFT) - The purpose of the American Board of Forensic Toxicology is to establish and enhance voluntary standards for the practice of forensic toxicology and for the examination and recognition of scientists and laboratories providing forensic toxicology services.



Accreditation Council of Graduate Medical Education (ACGME) - The Accreditation Council for Graduate Medical Education (ACGME) is a private professional organization responsible for the accreditation of 8,887 residency education programs.



ANSI National Accreditation Board (ANAB) - ANAB has provided accreditation of forensic service providers since 1982, making us the longest established provider of accreditation based on ISO standards for forensic agencies in the United States.



FBI Quality Assurance Standards for Inclusion in the Combined DNA Index System/National DNA Index System (CODIS/NDIS) - The DNA Identification Act of 1994 requires that the FBI Laboratory ensure that all DNA laboratories that participate in the National DNA Index System (NDIS) demonstrate compliance with the standards issued by the FBI.



National Association of Medical Examiners (NAME) - The National Association of Medical Examiners (NAME) is the national professional organization of physician medical examiners, medicolegal death investigators and death investigation system administrators who perform the official duties of the medicolegal investigation of deaths of public interest in the United States.

WHAT IS A MEDICAL EXAMINER'S CASE?

In November 2009, the residents of Cuyahoga County voted to reform County Government in order to significantly improve the County's economic competitiveness. As part of the restructuring, the elected office of Coroner was abolished and replaced with a Medical Examiner, appointed by the County Executive and subject to confirmation by the Council. **Section 5.03 of Article V** of the **Charter of Cuyahoga County** defines the powers, duties, and qualifications of the Medical Examiner and states, in part, "All powers now or hereafter vested in or imposed upon county coroners by general law shall be exercised by the Medical Examiner".

Chapter 313 of the **Ohio Revised Code** contains the laws and rules specific to the office of "coroner". **Section 313.12** of the Revised Code of the State of Ohio requires the Coroner (Medical Examiner) be given notice when "...any person dies as a result of

CRIMINAL or other

VIOLENT means, by

CASUALTY, by

SUICIDE, or in any

SUSPICIOUS or **UNUSUAL** manner, when any person,

including a **CHILD UNDER TWO YEARS OF AGE** dies

SUDDENLY when in apparent health..."

Section 313.09 of the Revised Code requires the Medical Examiner to keep a complete record of all cases coming under his/her jurisdiction. Such records are public (**§ 313.10**) and the availability of these records for inspection and copying is defined in **Section 149.43**.

Section 313.11 of the Revised Code defines unlawfully disturbing a decedent while **Section 313.12** explains whose duty it is to notify the Medical Examiner of the known time, place, manner and circumstances of a reportable death.

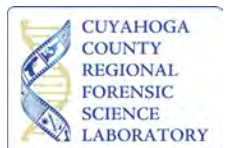
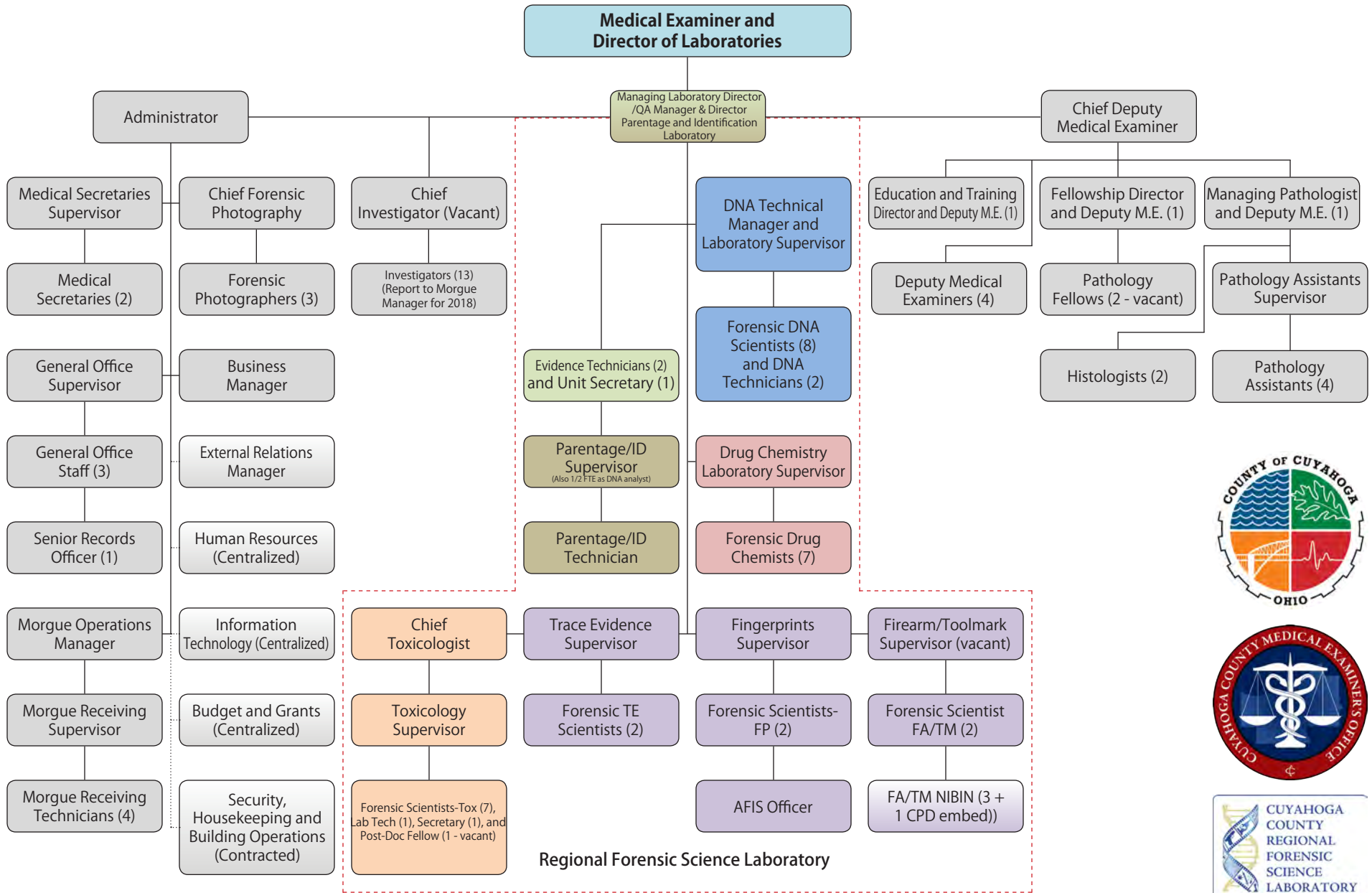
The Revised Code of the State of Ohio also outlines the role the Medical Examiner has with regard to taking charge of a dead body (**§ 313.13**), the responsibility for notifying known relatives of the decedent (**§ 313.14**), and securely storing their possessions. When firearms are included in the valuable personal effects of a deceased person, **Section 313.141** describes their disposition.

In Ohio, the Medical Examiner has considerable legal authority when investigating circumstances of death. These abilities are delineated in **Section 313.17** and the law concerning the use of a Medical Examiner's laboratory for emergency or law enforcement purposes are contained in **Section 313.21** of the Ohio Revised Code.

Coroners and Medical Examiners often work closely with public health and law enforcement officials. Protecting the well-being of the children of Cuyahoga County is a common priority. As such, **Section 307.622** defines the Medical Examiner's duty as a member of a child fatality review board. Additionally, **Section 2151.421** requires the reporting of child abuse and/or neglect by, amongst others, the Medical Examiner.

In addition to the aforementioned, there are dozens of other laws governing the Medical Examiner contained in the Revised Code of the State of Ohio. These laws vary greatly, covering subjects as diverse as DNA laboratory databases (**§109.573**), organ and tissue donation (**§313.30, 2108.26, 2108.262, 2108.263, 2108.266, 2108.267, and 2108.27**), the statement and certification of facts for vital statistics (**§3705.16, 3705.17, 3705.22, and 3705.29**), and traffic rules for the Medical Examiner's vehicles (**§4511.042, 4511.45, and 4513.171**).

THE 2018 CUYAHOGA COUNTY MEDICAL EXAMINER'S OFFICE ORGANIZATIONAL CHART



CUYAHOGA COUNTY OPIATE INITIATIVE

The Cuyahoga County Opioid Initiative is a broad response to the ongoing public health emergency, identified in 2011 by the Cuyahoga County Medical Examiner's Office, through a review of case statistics of violent, suspicious and sudden or unexpected deaths, **such as over-dose deaths, specifically those due to opiates/opioids and heroin.**

2018 ended with a continued unprecedented loss of life, with 551 drug deaths and 439 due to opiates and opioids both prescription and illicit. 398 deaths were due to fentanyl or a fentanyl analog (see below). But for the first time in a decade Cuyahoga County ended a streak of continually rising total number of deaths attributed to drug overdoses. The rate of decrease over



2017 was substantial but still remained at an incredibly high level.

FENTANYL AND COCAINE

Fentanyl continues to drive drug mortality. However, its wholesale adulteration into the cocaine supply has had a disproportionate effect on the African American community. Fentanyl (and fentanyl analog) related deaths declined slightly but was historically high save the previous years' total from 2017.

The Cuyahoga County Medical Examiner continued to issue additional warnings that the purposeful adulteration of the cocaine supply with fentanyl can be especially deadly to unsuspecting users and seems to be a deliberate attempt by the cartels to introduce fentanyl to the African American community. This remains a growing threat and marks another shift in the opioid crisis.

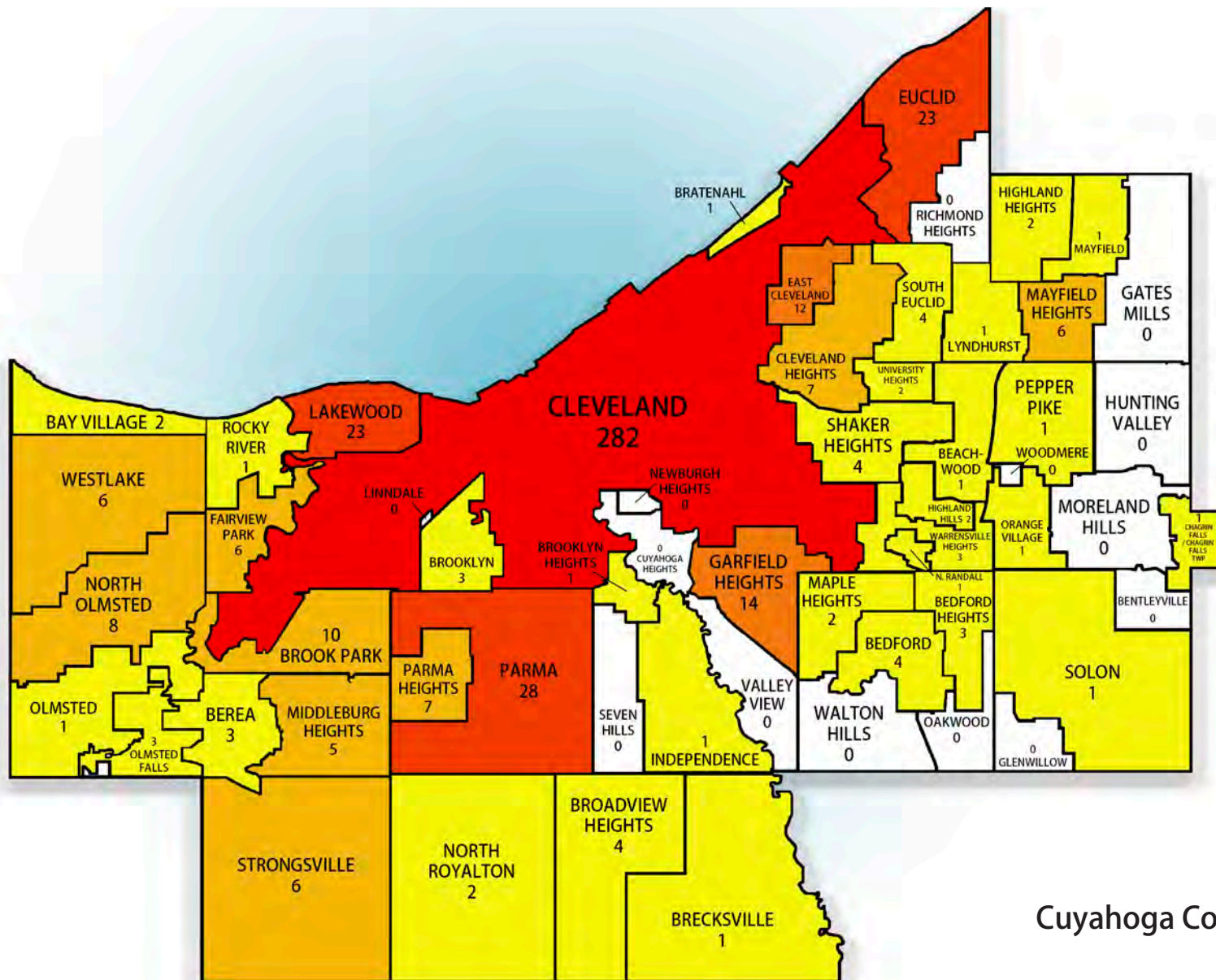
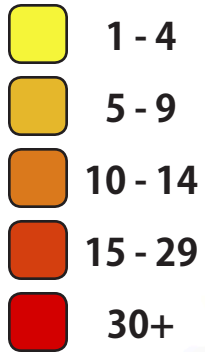
FENTANYL, ANALOGUES, AND CARFENTANIL

Spikes of summer 2017 drug mortality were driven mainly by high circulation levels of carfentanil, the deadliest of the opioid family and fentanyl analogs, with cases increasing from 54 to 191 in 2017. That trend did not repeat in 2018, with carfentanil being absent from the illicit drug supply for much of the final 3 quarters of 2018. While it is not entirely clear as to why, warnings provided to state and federal officials, by this office, may have helped spark redoubled efforts to halt its export to the U.S.

Project DAWN and its expansion into many first responder agencies around the county led to 714 documented overdose reversals in 2018 and nearly 2,400 since program inception in May 2013. Other strategies continue to be implemented from the Community Wide Plan adopted at the November 2013 Summit such as drug drop off box installments at local police departments and hundreds of community forums. A 2018 Summit took place to report to the community on progress and efforts after 5 years and to lay out strategies to continue to combat the crisis moving forward, including a robust data collection and utilization effort as a way to identify trends and respond in real-time to outbreaks. Finally, Cuyahoga County initiated a lawsuit against the drug manufacturers, distributors and marketers. A trial is set for late 2019 and the Medical Examiner will provide important data and testimony to support the case to be made.

2018 OVERDOSE DEATHS - LOCATION OF INCIDENT BY CITY*

Number of Deaths



Cuyahoga County, Ohio

*Unknown Location = 9

CUYAHOGA COUNTY OPIATE INITIATIVE

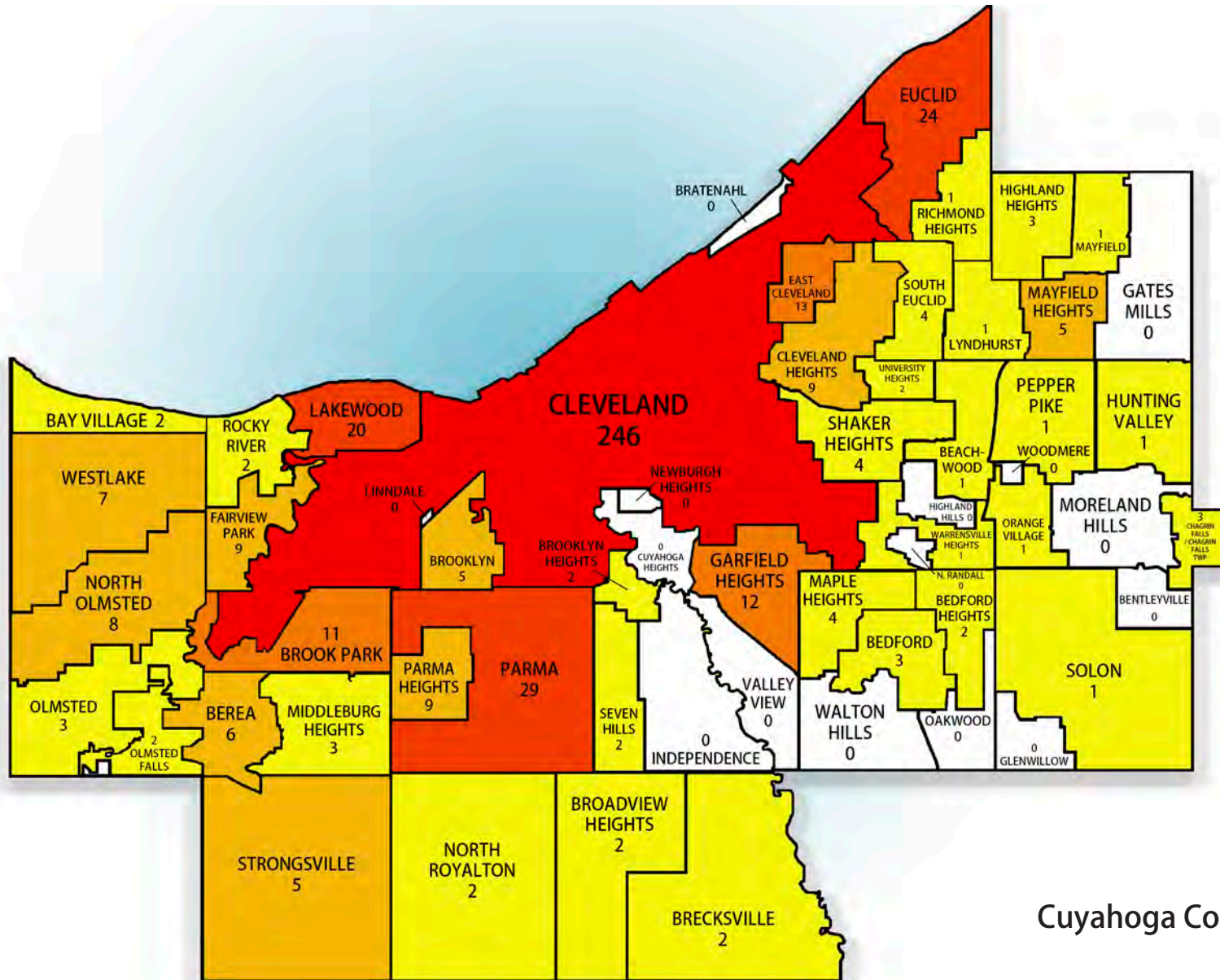
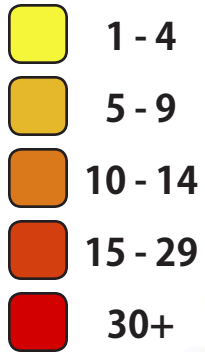
2018 OPIATE DEATHS - LOCATION OF INCIDENT BY CITY* (continued)

Cities			
Cleveland	282	Maple Heights	2
Bay Village	2	Mayfield Heights	6
Beachwood	1	Middleburg Heights	5
Bedford	4	North Olmsted	8
Bedford Heights	3	North Royalton	2
Berea	3	Olmsted Falls	3
Brecksville	1	Parma	28
Broadview Heights	4	Parma Heights	7
Brooklyn	3	Pepper Pike	1
Brook Park	10	Richmond Heights	0
Cleveland Heights	7	Rocky River	1
East Cleveland	12	Seven Hills	0
Euclid	23	Shaker Heights	4
Fairview Park	6	Solon	1
Garfield Heights	14	South Euclid	4
Highland Heights	2	Strongsville	6
Independence	1	University Heights	2
Lakewood	23	Warrensville Heights	3
Lyndhurst	1	Westlake	6
Villages			
Bentleyville	0	Mayfield Village	1
Bratenahl	1	Moreland Hills	0
Brooklyn Heights	1	Newburgh Heights	0
Cuyahoga Heights	0	North Randall	1
Gates Mills	0	Oakwood Village	0
Glenwillow	0	Orange Village	1
Highland Hills	2	Valley View	0
Hunting Valley	0	Walton Hills	0
Linndale	0	Woodmere	0
Townships			
Chagrin Falls/Chargin Falls Twp	1	Olmsted Township	1

CUYAHOGA COUNTY OPIATE INITIATIVE

2018 OPIATE DEATHS - RESIDENCE ADDRESS BY CITY*

Number of Deaths



Cuyahoga County, Ohio

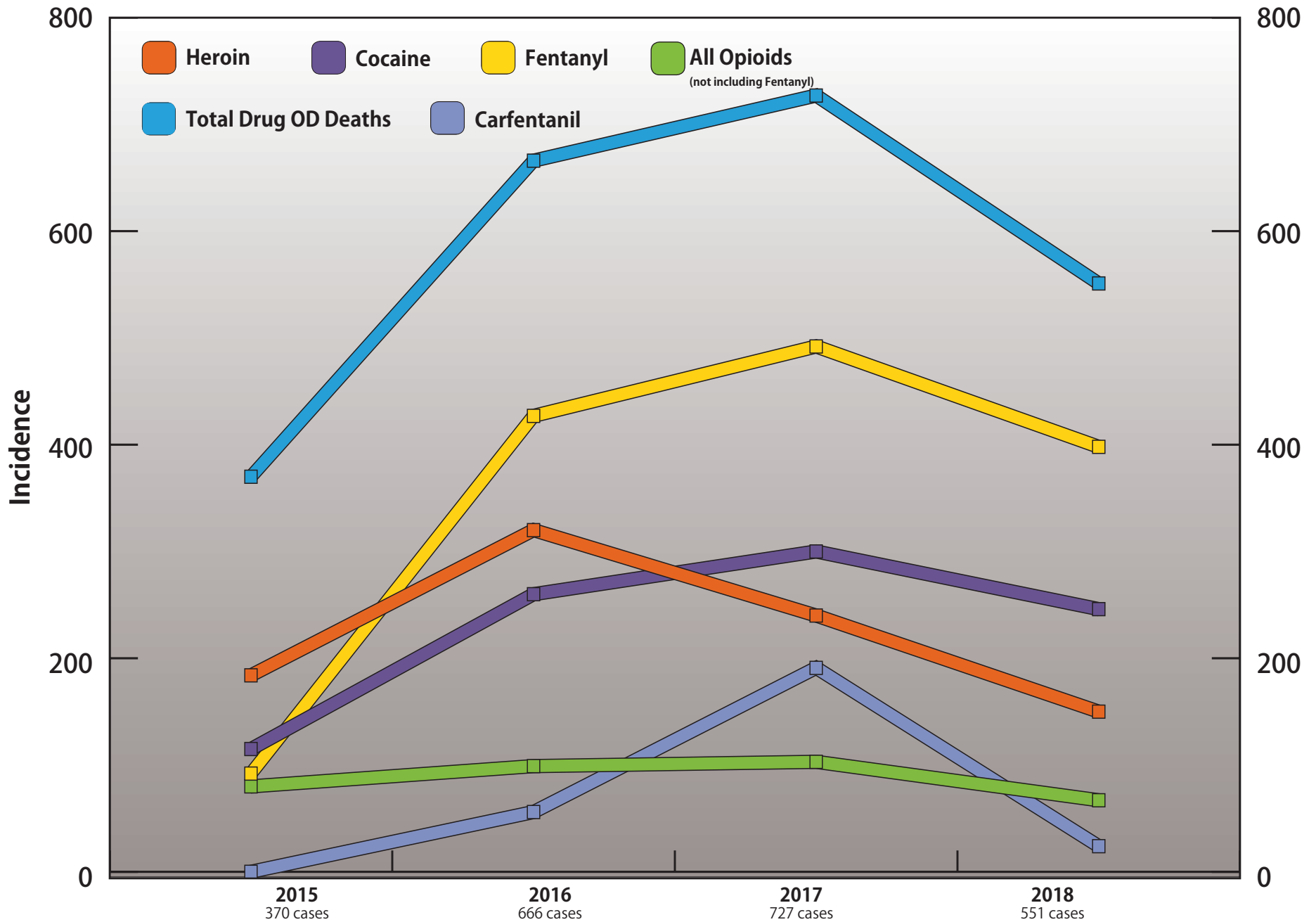
*Unknown Location = 4

CUYAHOGA COUNTY OPIATE INITIATIVE

2018 OPIOID DEATHS - RESIDENCE ADDRESS BY CITY* (continued)

Cities			
Cleveland	246	Maple Heights	4
Bay Village	2	Mayfield Heights	5
Beachwood	1	Middleburg Heights	3
Bedford	3	North Olmsted	8
Bedford Heights	2	North Royalton	2
Berea	6	Olmsted Falls	2
Brecksville	2	Parma	29
Broadview Heights	2	Parma Heights	9
Brooklyn	5	Pepper Pike	1
Brook Park	11	Richmond Heights	1
Cleveland Heights	9	Rocky River	2
East Cleveland	13	Seven Hills	2
Euclid	24	Shaker Heights	4
Fairview Park	9	Solon	1
Garfield Heights	12	South Euclid	4
Highland Heights	3	Strongsville	5
Independence	0	University Heights	2
Lakewood	20	Warrensville Heights	1
Lyndhurst	1	Westlake	7
Villages			
Bentleyville	0	Mayfield Village	1
Bratenahl	0	Moreland Hills	0
Brooklyn Heights	2	Newburgh Heights	0
Cuyahoga Heights	0	North Randall	0
Gates Mills	0	Oakwood Village	0
Glenwillow	0	Orange Village	1
Highland Hills	0	Valley View	0
Hunting Valley	1	Walton Hills	0
Linndale	0	Woodmere	0
Townships			
Chagrin Falls/Chargin Falls Twp	3	Olmsted Township	3

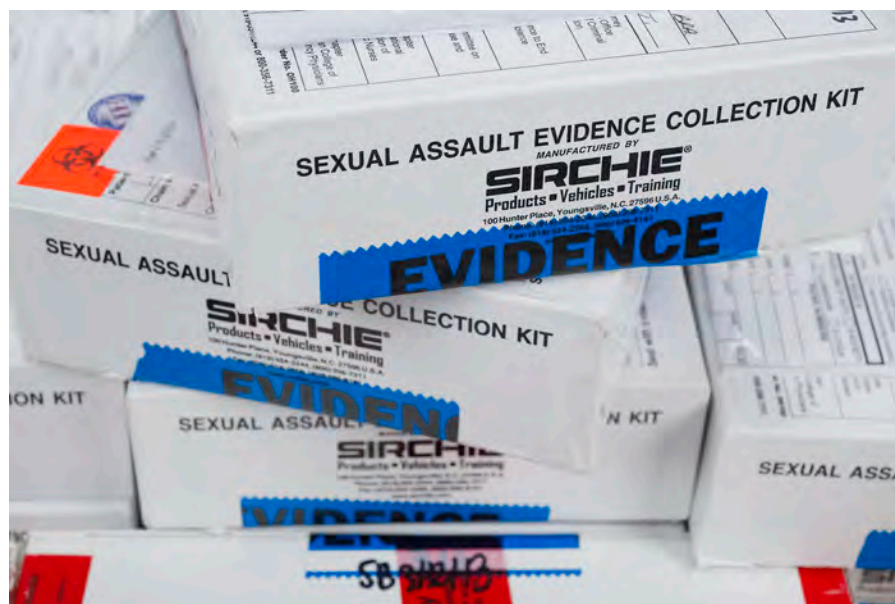
2015 - 2018 COMPARISON OF MOST COMMON OVERDOSE DRUGS



CUYAHOGA COUNTY SEXUAL ASSAULT POLICY

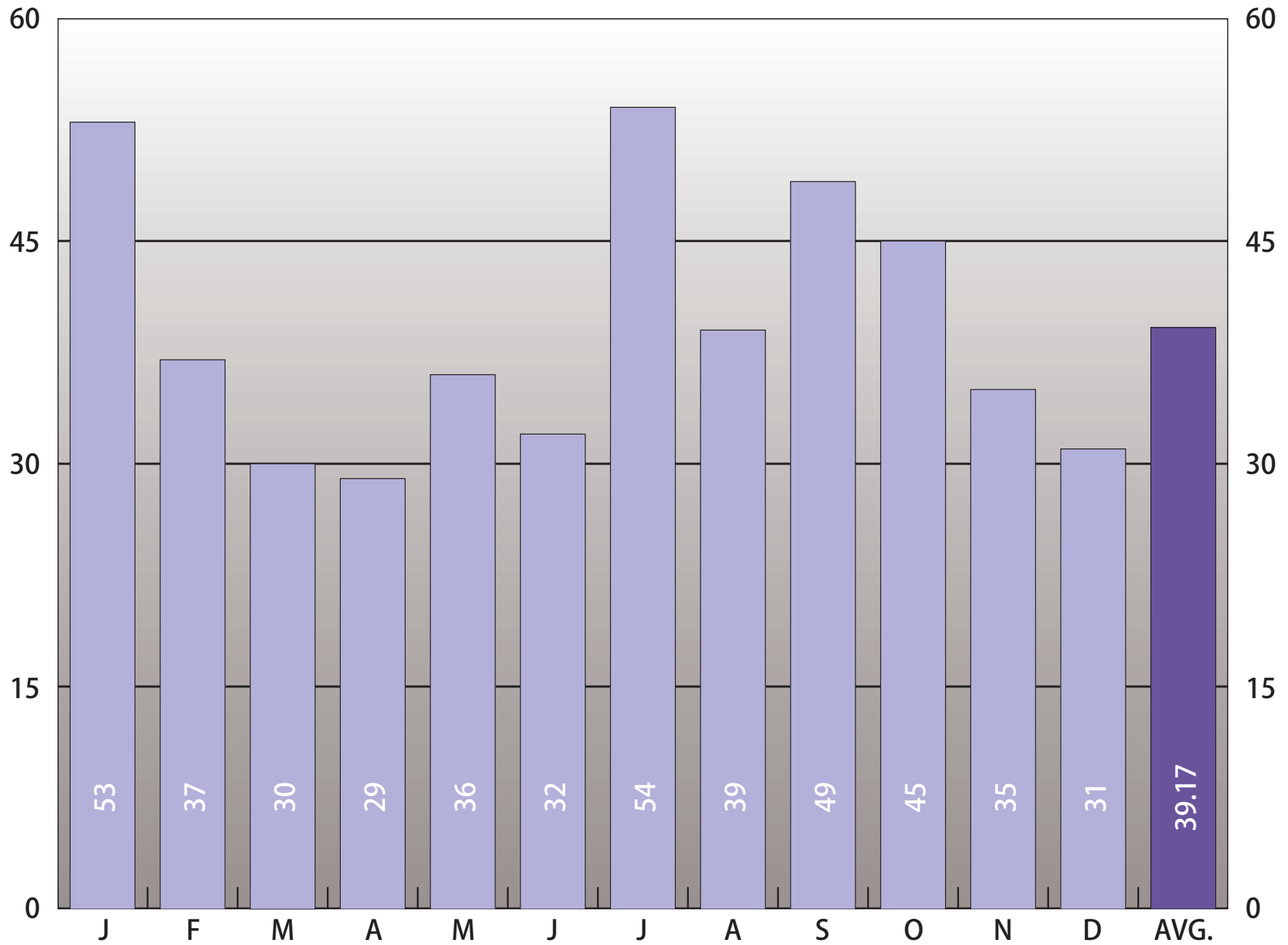
The **Cuyahoga County Sexual Assault Policy** is a broad agency response to the continuing problem of unsolved sexual assaults in Cuyahoga County. The Cuyahoga County Regional Forensic Science Laboratory of the Medical Examiner's Office performs scientific examinations in the areas of Forensic Pathology, Trace Evidence, Serology, DNA, Parentage and Identification. Such testing has resulted in the identification of suspected perpetrators of these violent crimes by analyzing evidence found at the scene or by testing sexual assault kits administered at area hospitals for DNA.

reached its goal of completing 75% of all cases in under 30 days. This work is being done in collaboration with a variety of law enforcement agencies, the Cleveland Rape Crisis Center and the County Prosecutor's Office.



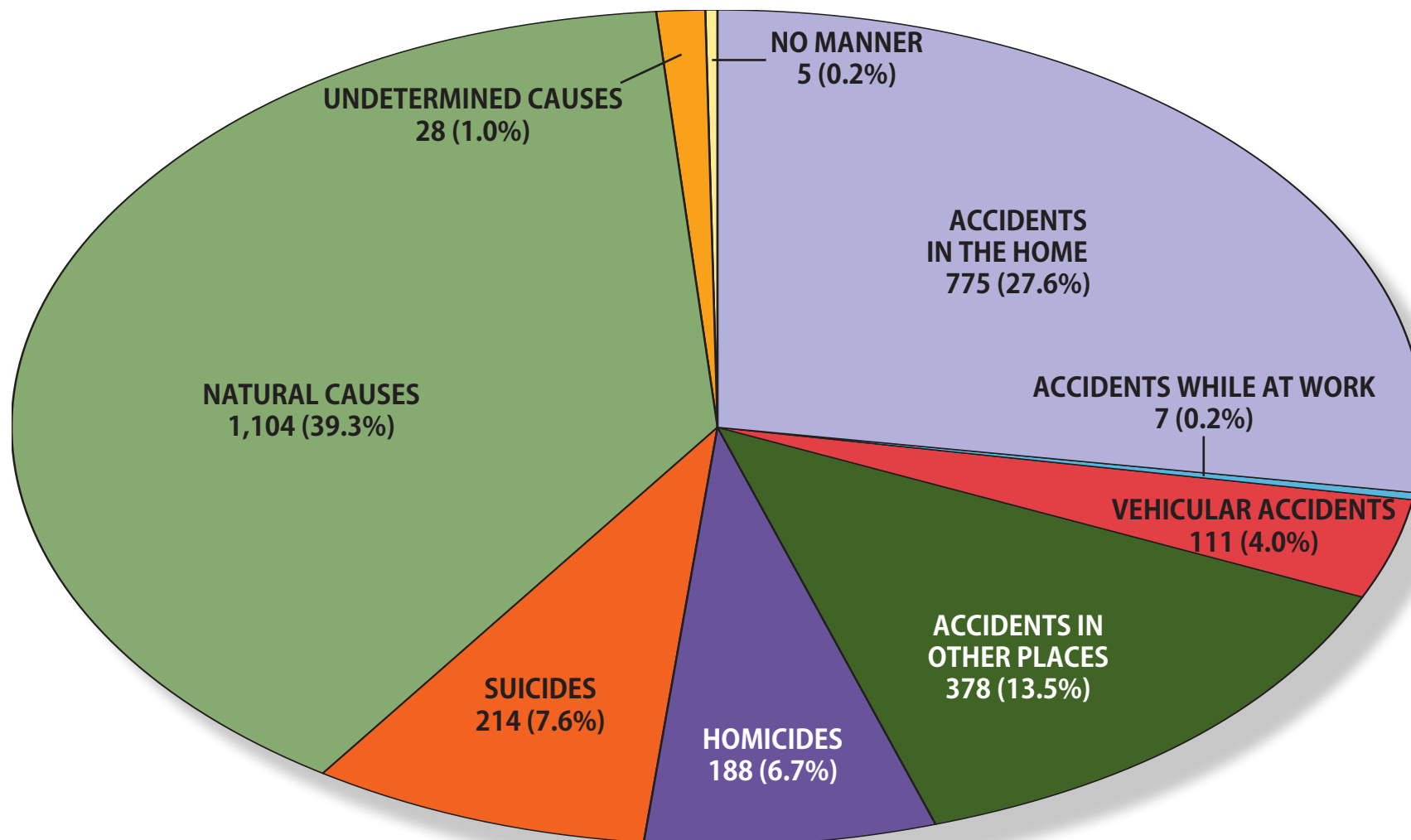
Since May 2012, nearly 2400 kits have been submitted for testing, essentially doubling the current DNA caseload of the lab. This important work continued in 2017, with overall average case completion time in 2017 of 50 days. . This testing is conducted at **NO COST** to submitting agencies or communities and has also

CUYAHOGA COUNTY SEXUAL ASSAULT POLICY
RAPE KITS RECEIVED BY MONTH FOR THE YEAR 2018

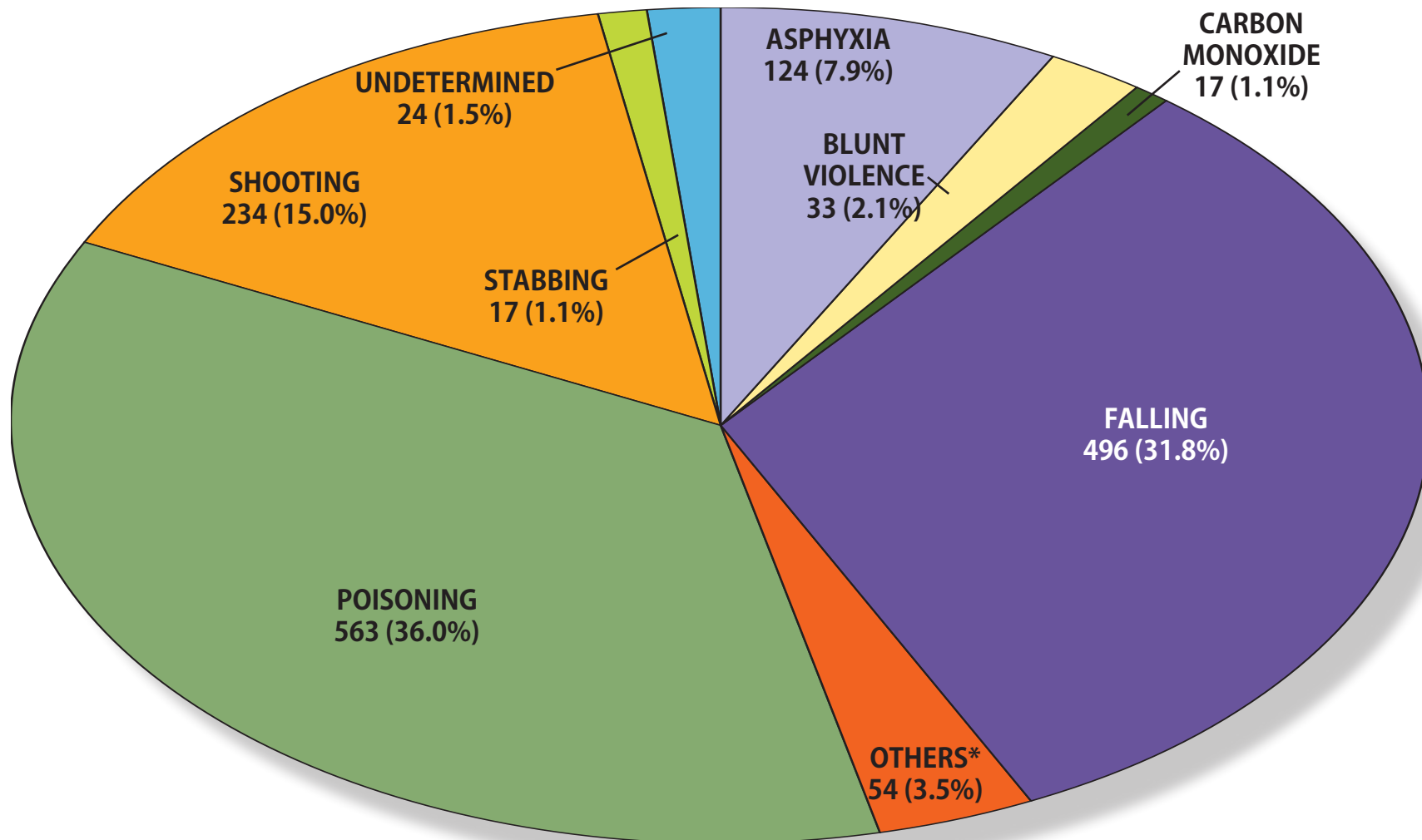


TYPES OF CASES RECEIVED AT THE CUYAHOGA COUNTY MEDICAL EXAMINER'S OFFICE

2,810 CASES (2018)



1,562** CASES (2018)



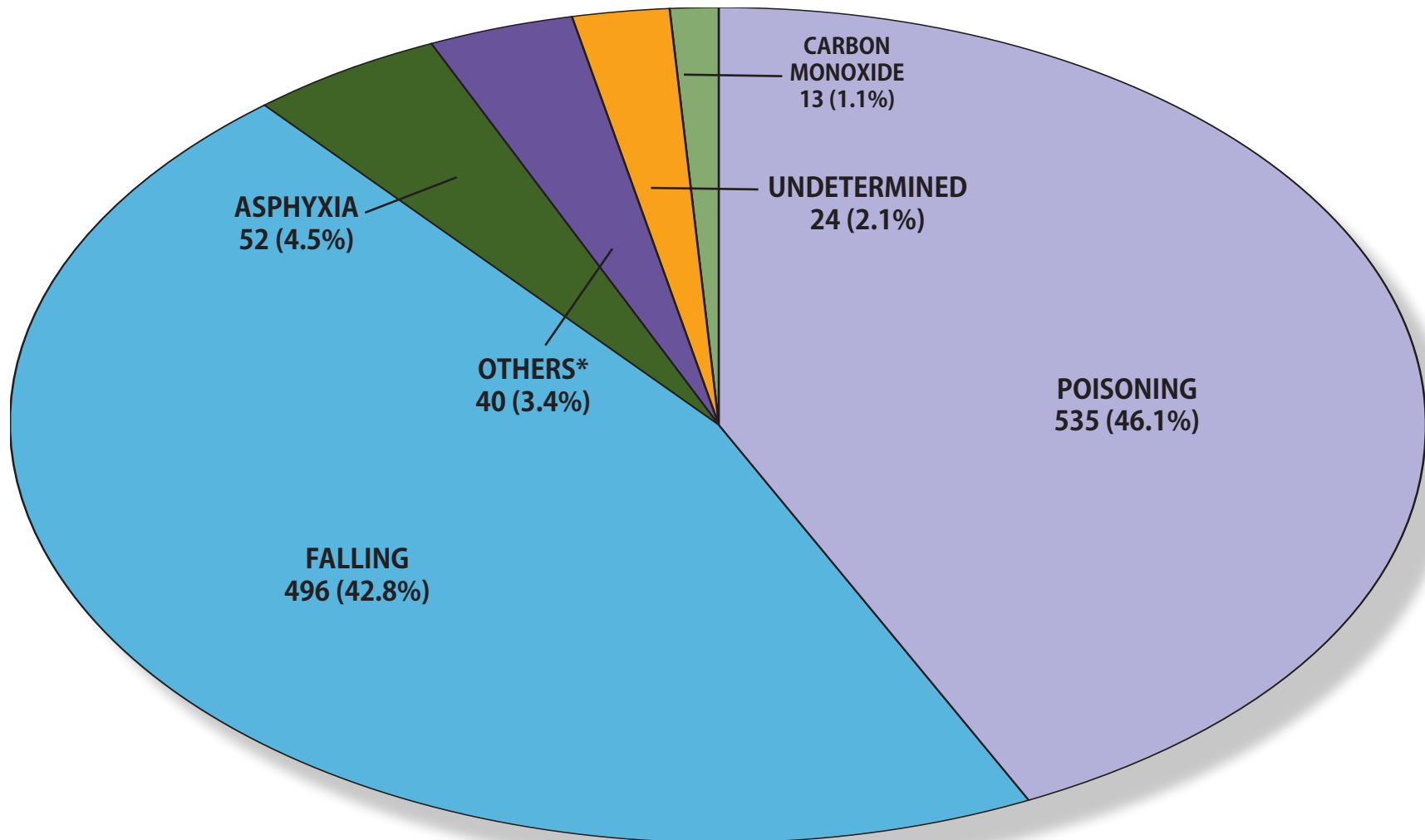
* **Others:** Airplane Accident, Burning, Crushing, Electrocution, Exposure, Fire/Explosion, Jumping, Miscellaneous, Struck by Object

** **Excluding Vehicular Accidents**

FATALITIES RESULTING FROM ACCIDENTS**

MODE OF OCCURRENCE 2018

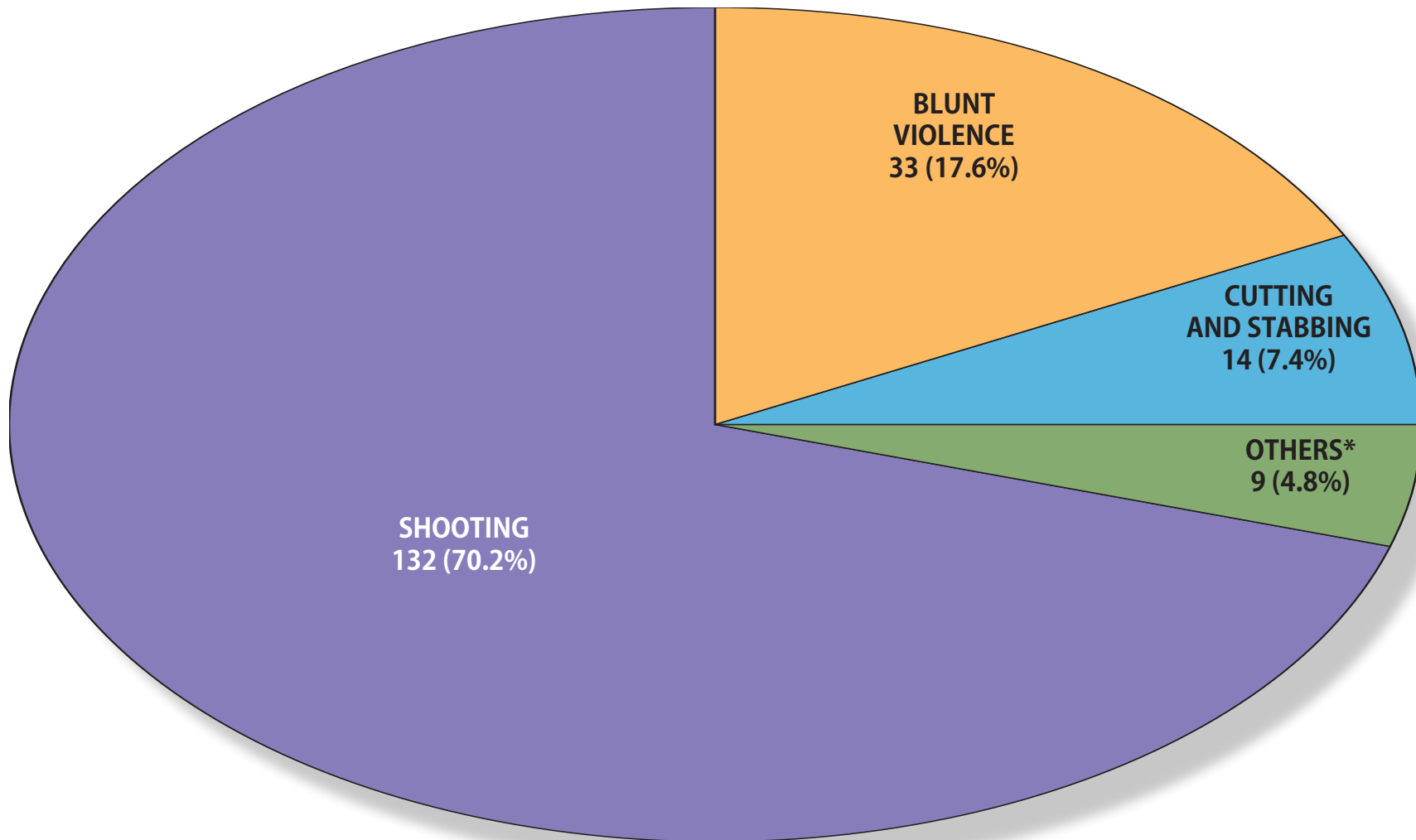
1,160** CASES (2018)



* **Others:** Airplane Accident, Burning, Crushing, Electrocution, Exposure, Fire/Explosion, Jumping, Miscellaneous Accident Struck by Object

** **Excluding Vehicular Accidents**

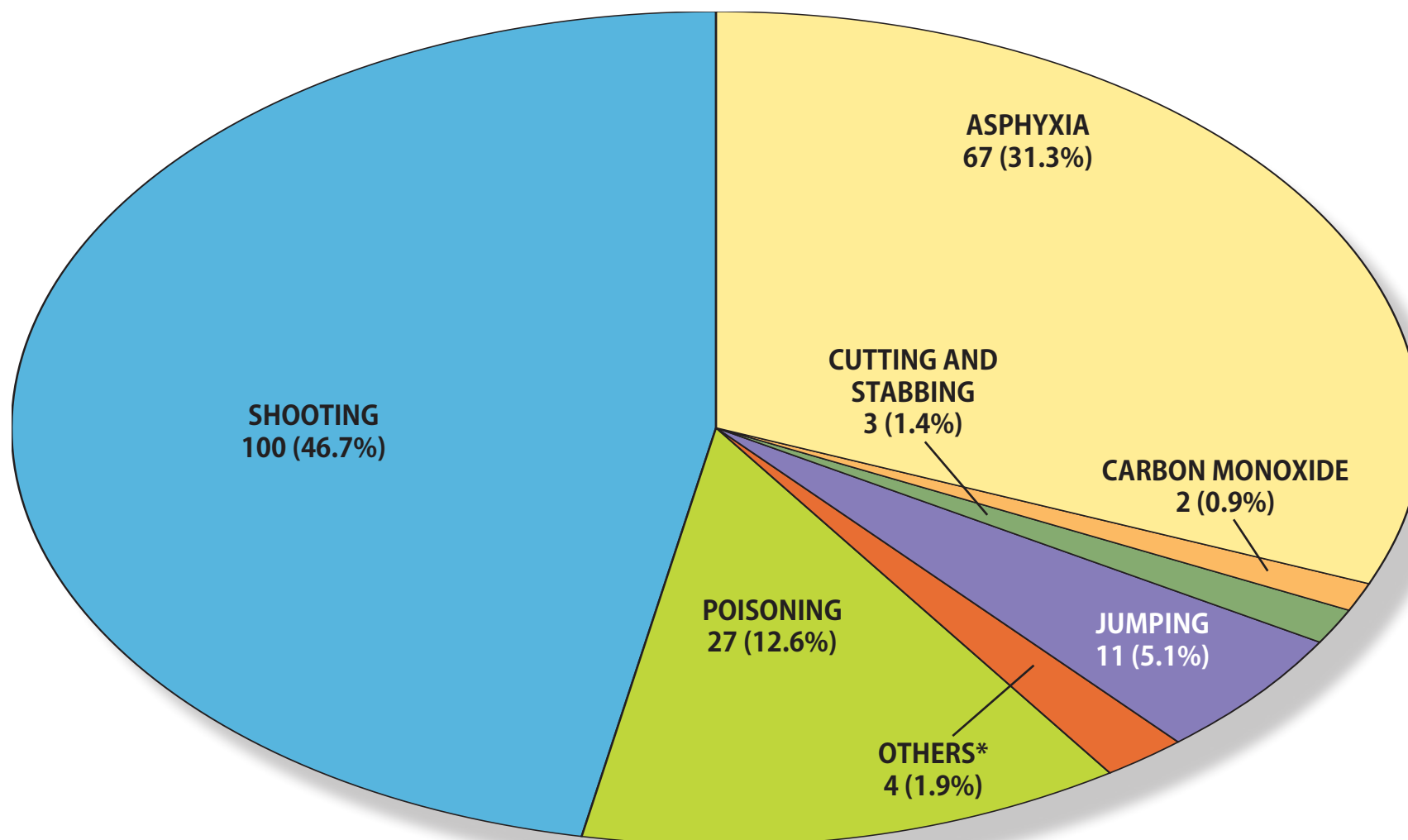
188 CASES (2018)



* **Others:** Asphyxia, Carbon Monoxide, Miscellaneous, Poisoning, Strangulation

FATALITIES RESULTING FROM SUICIDES
MODE OF OCCURRENCE 2018

214 CASES (2018)



* **Other:** Burning, Miscellaneous, Struck by Object

TABLE A

TYPES OF FATALITIES AND MISCELLANEOUS INFORMATION - 2017 AND 2018

	2017	2018
Accidents in the Home	883	776
Accidents While at Work	11	7
Vehicular Accidents	150	111
Accidents in Other Places	482	377
Homicides	189	188
Suicides	176	214
Total Violent Deaths	1,891	1,673
Natural Causes	1,031	1,104
Undetermined Causes	25	28
No Manner Issued	5	5
Cases Reported - Admitted	2,952	2,810
Cases Reported - Not Admitted	3,724	3,847
Autopsies (Hospitals Included)	1,455*	1,422**
Autopsies Performed for Other Counties	434	434
Scene Investigations	1,322	1,268
Unidentified Bodies	1	0
Unclaimed Bodies	139	92
Donated Bodies	7	8
Exhumations	1	0
Bodies Transported By/By Order of	2,617	2,318
Bodies Transported to Office	3,137	2,812
Deaths in Cuyahoga County	14,240	14,148
Percentage of Deaths Admitted	20.73%	19.86%

*Includes 8 autopsies performed at hospitals

**Includes 12 autopsies performed at hospitals

2018 TYPES OF FATALITIES - GENDER, RACE, ETHNICITY, AUTOPSY

TABLE B

				Race									
				White	Black	American Indian or Alaskan Native	Asian	Asian Indian	Native Hawaiian or Pacific Islander	Unknown			
Type of Fatality	Total	Male	Female								Hispanic**	Autopsied Cases*	% of Total Cases
Accidents in the Home	775	461	314	605	163	1	5	1	0	0	21	406	14.45%
Accidents While at Work	7	7	0	6	1	0	0	0	0	0	0	2	0.07%
Vehicular Accidents	111	80	31	62	47	1	1	0	0	0	3	57	2.03%
Accidents in Other Places	378	203	175	306	68	0	1	2	0	1	10	132	4.70%
Homicides	188	143	45	58	129	0	0	0	1	0	12	188	6.69%
Suicides	214	161	53	181	33	0	0	0	0	0	7	176	6.26%
Natural Causes	1104	687	417	739	356	1	4	4	0	0	20	431	15.34%
Undetermined Causes	28	16	12	15	13	0	0	0	0	0	1	26	0.93%
No Manner Issued**	5	1	3	4	1	0	0	0	0	0	1	4	0.14%
Total	2810	1759	1050	1976	811	3	11	7	1	1	75	1422	50.60%

* Includes 12 autopsies performed at hospitals.

** Gender is unknown for 1 case.

TABLE C

TYPES OF FATALITIES - 2017 AND 2018 INCIDENCE COMPARED

	Percentage of Total Cases Admitted	
	2017	2018
Accidents in the Home	29.9	27.6
Accidents While at Work	0.4	0.2
Vehicular Accidents	5.1	4.0
Accidents in Other Places	16.3	13.5
Homicides	6.4	6.7
Suicides	6.0	7.6
Total Violent Deaths	64.1	59.5
Natural Causes	34.9	39.3
Undetermined Causes	0.8	1.0
No Manner Issued	0.2	0.2

	Number of Cases	Number of Cases Tested	Percentage of Cases Tested	Number Positive of Those Tested	Percentage Positive of Those Tested
Accidents in the Home	775	434	56.00%	135	37.11%
Accidents While at Work	7	4	57.14%	0	0.00%
Vehicular Accidents	111	67	60.36%	24	35.82%
Accidents in Other Places	378	142	37.57%	41	28.87%
Homicides	188	158	84.04%	66	41.77%
Suicides	214	182	85.05%	67	36.81%
Total Violent Deaths	1,673	987	59.00%	333	33.74%
Natural Causes	1,104	490	44.38%	148	30.20%
Undetermined Causes	28	18	64.29%	2	11.11%
No Manner Issued	5	0	0.00%	0	0.00%
Total Cases	2,810	1,495	53.20%	483	32.31%

TABLE E

2018 VEHICULAR FATALITIES/DAILY ETHANOL INCIDENCE

	Driver (1)		Motorcyclist (2)		Passenger (3)		Pedestrian (4)		Total	
	Number of Cases		Number of Cases		Number of Cases		Number of Cases		Number of Cases	
Day	Tested	Positive	Tested	Positive	Tested	Positive	Tested	Positive	Tested	Positive
Sunday	8	1	1	0	2	0	1	0	12	1
Monday	4	2	0	0	0	0	1	0	5	2
Tuesday	7	1	1	0	1	0	1	0	10	1
Wednesday	5	4	1	0	0	0	3	1	9	5
Thursday	1	0	0	0	2	0	1	0	4	0
Friday	5	3	1	0	1	1	2	0	9	4
Saturday	13	7	2	1	1	1	1	1	17	10
Unknown	0	0	0	0	0	0	1	1	1	1
Total	43	18	6	1	7	2	11	3	67	24

2018 SUMMARY CHART - CUYAHOGA COUNTY

DISTRIBUTION OF SELECTED MEDICAL EXAMINER'S CASES IN EACH MUNICIPALITY*

TABLE F

Cities	Inside Cases		Natural Causes		Accidents		Vehicular		Homicides		Suicides		Undetermined Causes		No Manner	
	# of Cases	% of Cases	# of Cases	% of Cases	# of Cases	% of Cases	# of Cases	% of Cases	# of Cases	% of Cases	# of Cases	% of Cases	# of Cases	% of Cases	# of Cases	% of Cases
Cleveland	1443	51.35%	515	18.33%	592	21.07%	78	2.78%	147	5.23%	85	3.02%	21	0.75%	5	0.18%
Bay Village	10	0.36%	5	0.18%	4	0.14%	0	0.00%	0	0.00%	1	0.04%	0	0.00%	0	0.00%
Beachwood	58	2.06%	22	0.78%	28	1.00%	3	0.11%	2	0.07%	3	0.11%	0	0.00%	0	0.00%
Bedford	35	1.25%	16	0.57%	11	0.39%	2	0.07%	2	0.07%	3	0.11%	1	0.04%	0	0.00%
Bedford Heights	11	0.39%	8	0.28%	2	0.07%	0	0.00%	0	0.00%	1	0.04%	0	0.00%	0	0.00%
Berea	13	0.46%	6	0.21%	5	0.18%	0	0.00%	0	0.00%	2	0.07%	0	0.00%	0	0.00%
Brecksville	17	0.60%	7	0.25%	7	0.25%	1	0.04%	0	0.00%	2	0.07%	0	0.00%	0	0.00%
Broadview Heights	13	0.46%	5	0.18%	5	0.18%	0	0.00%	0	0.00%	3	0.11%	0	0.00%	0	0.00%
Brooklyn	10	0.36%	6	0.21%	3	0.11%	0	0.00%	0	0.00%	1	0.04%	0	0.00%	0	0.00%
Brook Park	21	0.75%	5	0.18%	13	0.46%	1	0.04%	0	0.00%	2	0.07%	0	0.00%	0	0.00%
Cleveland Heights	27	0.96%	18	0.64%	4	0.14%	1	0.04%	0	0.00%	4	0.14%	0	0.00%	0	0.00%
East Cleveland	33	1.17%	13	0.46%	14	0.50%	0	0.00%	4	0.14%	2	0.07%	0	0.00%	0	0.00%
Euclid	101	3.59%	50	1.78%	33	1.17%	0	0.00%	6	0.21%	11	0.39%	1	0.04%	0	0.00%
Fairview Park	25	0.89%	12	0.43%	8	0.28%	0	0.00%	0	0.00%	5	0.18%	0	0.00%	0	0.00%
Garfield Heights	60	2.14%	20	0.71%	28	1.00%	1	0.04%	5	0.18%	5	0.18%	1	0.04%	0	0.00%
Highland Heights	12	0.43%	5	0.18%	5	0.18%	0	0.00%	0	0.00%	2	0.07%	0	0.00%	0	0.00%
Independence	5	0.18%	1	0.04%	1	0.04%	1	0.04%	0	0.00%	2	0.07%	0	0.00%	0	0.00%
Lakewood	72	2.56%	35	1.25%	29	1.03%	0	0.00%	1	0.04%	7	0.25%	0	0.00%	0	0.00%
Lyndhurst	8	0.28%	4	0.14%	4	0.14%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Maple Heights	16	0.57%	9	0.32%	4	0.14%	0	0.00%	1	0.04%	2	0.07%	0	0.00%	0	0.00%
Mayfield Heights	100	3.56%	34	1.21%	54	1.92%	4	0.14%	3	0.11%	4	0.14%	1	0.04%	0	0.00%
Middleburg Heights	71	2.53%	29	1.03%	33	1.17%	3	0.11%	1	0.04%	5	0.18%	0	0.00%	0	0.00%
North Olmsted	29	1.03%	16	0.57%	9	0.32%	0	0.00%	0	0.00%	4	0.14%	0	0.00%	0	0.00%
North Royalton	19	0.68%	8	0.28%	2	0.07%	0	0.00%	2	0.07%	7	0.25%	0	0.00%	0	0.00%
Olmsted Falls	14	0.50%	6	0.21%	5	0.18%	0	0.00%	0	0.00%	3	0.11%	0	0.00%	0	0.00%
Parma	169	6.01%	71	2.53%	76	2.70%	2	0.07%	6	0.21%	13	0.46%	1	0.04%	0	0.00%
Parma Heights	32	1.14%	20	0.71%	9	0.32%	0	0.00%	0	0.00%	3	0.11%	0	0.00%	0	0.00%
Pepper Pike	2	0.07%	1	0.04%	0	0.00%	0	0.00%	0	0.00%	1	0.04%	0	0.00%	0	0.00%
Richmond Heights	23	0.82%	7	0.25%	9	0.32%	2	0.07%	3	0.11%	1	0.04%	1	0.04%	0	0.00%

TABLE F

DISTRIBUTION OF SELECTED MEDICAL EXAMINER'S CASES IN EACH MUNICIPALITY*

Cities	Inside Cases		Natural Causes		Accidents		Vehicular		Homicides		Suicides		Undetermined Causes		No Manner	
	# of Cases	% of Cases	# of Cases	% of Cases	# of Cases	% of Cases	# of Cases	% of Cases	# of Cases	% of Cases	# of Cases	% of Cases	# of Cases	% of Cases	# of Cases	% of Cases
Rocky River	20	0.71%	14	0.50%	4	0.14%	0	0.00%	0	0.00%	2	0.07%	0	0.00%	0	0.00%
Seven Hills	8	0.28%	6	0.21%	1	0.04%	0	0.00%	0	0.00%	1	0.04%	0	0.00%	0	0.00%
Shaker Heights	18	0.64%	9	0.32%	5	0.18%	0	0.00%	1	0.04%	3	0.11%	0	0.00%	0	0.00%
Solon	14	0.50%	8	0.28%	6	0.21%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
South Euclid	15	0.53%	5	0.18%	4	0.14%	1	0.04%	0	0.00%	5	0.18%	0	0.00%	0	0.00%
Strongsville	70	2.49%	25	0.89%	37	1.32%	0	0.00%	0	0.00%	8	0.28%	0	0.00%	0	0.00%
University Heights	5	0.18%	2	0.07%	2	0.07%	0	0.00%	0	0.00%	1	0.04%	0	0.00%	0	0.00%
Warrensville Heights	40	1.42%	20	0.71%	11	0.39%	4	0.14%	4	0.14%	1	0.04%	0	0.00%	0	0.00%
Westlake	124	4.41%	40	1.42%	76	2.70%	5	0.18%	0	0.00%	3	0.11%	0	0.00%	0	0.00%
VILLAGES																
Bentleyville	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Bratenahl	1	0.04%	1	0.04%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Brooklyn Heights	1	0.04%	0	0.00%	1	0.04%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Cuyahoga Heights	1	0.04%	0	0.00%	1	0.04%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Gates Mills	3	0.11%	0	0.00%	2	0.07%	1	0.04%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Glenwillow	1	0.04%	0	0.00%	0	0.00%	1	0.04%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Highland Hills	2	0.07%	2	0.07%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Hunting Valley	1	0.04%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.04%	0	0.00%	0	0.00%
Linndale	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Mayfield Village	2	0.07%	0	0.00%	2	0.07%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Moreland Hills	1	0.04%	1	0.04%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Newburgh Heights	1	0.04%	1	0.04%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
North Randall	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Oakwood Village	9	0.32%	5	0.18%	2	0.07%	0	0.00%	0	0.00%	2	0.07%	0	0.00%	0	0.00%
Orange Village	1	0.04%	1	0.04%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Valley View	1	0.04%	0	0.00%	1	0.04%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Walton Hills	3	0.11%	3	0.11%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Woodmere	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
TOWNSHIPS																
Chagrin Falls	3	0.11%	1	0.04%	2	0.07%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Olmsted Township	16	0.57%	6	0.21%	6	0.21%	0	0.00%	0	0.00%	3	0.11%	1	0.04%	0	0.00%

*Summary by place of death.

DEATHS IN COUNTY, DEATHS REPORTED TO MEDICAL EXAMINER/CASES RECEIVED 1940 - 2018

TABLE G

County Population 1940: 1,217,250					
Year	Deaths in County	Total Deaths Reported to Medical Examiner's Office	Percent of Deaths in County	Cases Admitted to Medical Examiner's Office	Percent of Deaths in County
1940	11,193	N.A.	-	1,184	10.6%
1941	12,582	N.A.	-	1,392	11.1%
1942	12,868	N.A.	-	1,385	10.8%
1943	13,931	2,739	19.7%	1,434	10.3%
1944	13,234	2,544	19.2%	1,420	10.7%
1945	13,104	2,624	20.0%	1,478	11.3%
1946	13,049	2,890	22.1%	1,588	12.2%
1947	13,946	3,120	22.4%	1,904	13.7%
1948	13,695	3,203	23.4%	1,924	14.0%
1949	13,837	3,849	27.8%	2,012	14.5%
County Population 1950: 1,389,532					
Year	Deaths in County	Total Deaths Reported to Medical Examiner's Office	Percent of Deaths in County	Cases Admitted to Medical Examiner's Office	Percent of Deaths in County
1950	13,765	3,431	24.9%	2,218	16.1%
1951	14,156	3,496	24.7%	2,213	15.6%
1952	14,727	3,477	23.6%	2,183	14.8%
1953	14,896	3,646	24.5%	2,392	16.1%
1954	14,607	3,851	26.4%	2,767	18.9%
1955	14,751	4,085	27.7%	2,945	19.9%
1956	15,389	4,651	30.2%	3,259	21.2%
1957	16,063	4,634	28.8%	3,274	20.4%
1958	15,919	4,963	31.2%	3,602	22.6%
1959	16,088	4,328	26.9%	3,626	22.5%
County Population 1960: 1,647,895					
Year	Deaths in County	Total Deaths Reported to Medical Examiner's Office	Percent of Deaths in County	Cases Admitted to Medical Examiner's Office	Percent of Deaths in County
1960	16,425	5,159	31.4%	3,513	21.4%
1961	16,144	5,019	31.1%	3,622	22.4%
1962	16,701	5,213	31.3%	3,883	23.3%
1963	17,142	5,385	31.4%	4,083	23.8%
1964	16,915	5,490	32.5%	4,037	23.9%
1965	17,062	5,227	30.6%	4,012	23.5%
1966	17,415	5,303	30.5%	4,136	23.7%
1967	17,300	5,518	31.9%	4,141	23.9%
1968	18,087	5,997	33.2%	4,455	24.6%
1969	17,287	5,415	31.3%	4,436	25.7%

TABLE G

DEATHS IN COUNTY, DEATHS REPORTED TO MEDICAL EXAMINER/CASES RECEIVED 1940 - 2018

County Population 1970: 1,721,300					
Year	Deaths in County	Total Deaths Reported to Medical Examiner's Office	Percent of Deaths in County	Cases Admitted to Medical Examiner's Office	Percent of Deaths in County
1970	17,305	5,125	29.6%	4,314	24.9%
1971	16,834	5,183	30.8%	4,246	25.2%
1972	17,267	5,602	32.4%	4,384	25.4%
1973	17,234	4,908	28.5%	4,321	25.1%
1974	16,948	5,118	30.2%	4,228	25.0%
1975	16,013	4,795	29.9%	4,005	25.0%
1976	16,252	4,630	28.5%	4,085	25.1%
1977	16,124	4,831	29.9%	4,185	25.9%
1978	16,562	4,472	27.0%	3,669	22.2%
1979	16,359	4,847	29.6%	3,782	23.1%
County Population 1980: 1,498,400					
Year	Deaths in County	Total Deaths Reported to Medical Examiner's Office	Percent of Deaths in County	Cases Admitted to Medical Examiner's Office	Percent of Deaths in County
1980	16,209	5,655	34.9%	3,540	21.8%
1981	15,737	4,977	31.6%	3,147	20.0%
1982	15,458	5,327	34.5%	2,840	18.4%
1983	15,554	5,278	33.9%	2,957	19.0%
1984	15,666	5,268	33.6%	2,922	18.7%
1985	15,669	5,463	34.9%	2,782	17.8%
1986	15,975	5,159	32.3%	2,707	16.9%
1987	15,502	5,341	34.5%	2,713	17.5%
1988	15,667	5,579	35.6%	2,737	17.5%
1989	15,407	5,708	37.0%	3,028	19.7%
County Population 1990: 1,412,140					
Year	Deaths in County	Total Deaths Reported to Medical Examiner's Office	Percent of Deaths in County	Cases Admitted to Medical Examiner's Office	Percent of Deaths in County
1990	15,400	5,929	38.5%	3,079	20.0%
1991	15,245	5,977	39.2%	3,118	20.5%
1992	14,899	5,665	38.0%	2,903	19.5%
1993	15,458	5,717	36.9%	3,121	20.2%
1994	15,518	5,808	37.4%	3,008	19.4%
1995	15,738	5,878	37.3%	3,157	20.1%
1996	15,176	5,583	36.8%	2,768	18.2%
1997	15,209	5,575	36.7%	2,744	18.0%
1998	14,919	5,367	35.9%	3,096	20.8%
1999	14,992	5,508	36.7%	3,594	23.9%

DEATHS IN COUNTY, DEATHS REPORTED TO MEDICAL EXAMINER/CASES RECEIVED 1940 - 2018

TABLE G

County Population 2000: 1,393,978					
Year	Deaths in County	Total Deaths Reported to Medical Examiner's Office	Percent of Deaths in County	Cases Admitted to Medical Examiner's Office	Percent of Deaths in County
2000	15,296	5,934	36.6%	3,813	24.9%
2001	15,313	5,753	37.6%	3,892	25.4%
2002	15,177	5,447	35.9%	3,671	24.2%
2003	14,671	5,209	35.5%	3,543	24.2%
2004	14,668	5,305	36.2%	3,678	25.1%
2005	14,616	5,287	36.2%	3,519	24.1%
2006	13,954	5,307	38.0%	3,564	25.5%
2007	13,756	5,296	38.5%	3,476	25.3%
2008	14,002	5,923	42.3%	3,274	23.4%
2009	14,082	5,885	41.8%	2,652	18.8%
County Population 2010: 1,280,122					
Year	Deaths in County	Total Deaths Reported to Medical Examiner's Office	Percent of Deaths in County	Cases Admitted to Medical Examiner's Office	Percent of Deaths in County
2010	13,341	5,934	44.4%	2,451	18.3%
2011	13,795	5,927	42.9%	2,449	17.7%
2012	16,134	6,055	37.5%	2,219	13.8%
2013	16,056	6,034	37.6%	2,258	14.1%
2014	15,799	6,026	38.1%	2,251	14.2%
2015	13,611	6,126	45.0%	2,546	18.0%
2016	13,973	6,468	46.3%	2,903	20.8%
2017	14,240	6,676	46.9%	2,952	20.7%
2018	14,148	6,659	47.1%	2,810	19.9%

TABLE H

TYPES OF FATALITIES SUMMARY 1940 - 2018

County Population 1940: 1,217,250										
Year	Totals					Violent Deaths				
	Total Cases	Total Natural	Total Violent	% Natural	% Violent	Homicide	Suicide	Accident	Vehicular*	V.U.O.
1940	1,184	528	656	44.59	55.41	63	200	376	195	17
1941	1,392	662	730	47.56	52.44	54	167	492	249	17
1942	1,385	670	715	48.38	51.62	84	156	471	214	4
1943	1,434	802	632	55.93	44.07	66	137	422	179	7
1944	1,420	813	607	57.25	42.75	58	122	405	177	22
1945	1,478	812	666	54.94	45.06	70	148	442	167	6
1946	1,588	816	772	51.39	48.61	86	151	519	213	16
1947	1,904	1,136	768	59.66	40.34	90	184	472	201	22
1948	1,924	1,188	736	61.75	38.25	97	168	449	166	22
1949	2,012	1,262	750	62.72	37.28	95	167	471	163	17

County Population 1950: 1,389,532										
Year	Totals					Violent Deaths				
	Total Cases	Total Natural	Total Violent	% Natural	% Violent	Homicide	Suicide	Accident	Vehicular*	V.U.O.
1950	2,218	1,528	690	68.89	31.11	83	142	453	159	12
1951	2,213	1,512	701	68.32	31.68	91	128	474	171	8
1952	2,183	1,421	762	65.09	34.91	106	139	507	205	10
1953	2,392	1,549	843	64.76	35.24	98	141	599	224	5
1954	2,767	1,939	828	70.08	29.92	93	165	554	177	16
1955	2,945	2,105	840	71.48	28.52	82	184	572	173	2
1956	3,259	2,269	990	69.62	30.38	128	170	686	199	6
1957	3,274	2,304	970	70.37	29.63	96	151	717	199	6
1958	3,602	2,624	978	72.85	27.15	95	161	716	174	6
1959	3,626	2,607	1,019	71.90	28.10	94	161	750	179	14

County Population 1960: 1,647,895										
Year	Totals					Violent Deaths				
	Total Cases	Total Natural	Total Violent	% Natural	% Violent	Homicide	Suicide	Accident	Vehicular*	V.U.O.
1960	3,513	2,438	1,075	69.40	30.60	102	186	768	182	19
1961	3,662	2,689	973	73.43	26.57	100	157	702	165	14
1962	3,883	2,935	948	75.59	24.41	74	180	676	142	18
1963	4,083	3,033	1,050	74.28	25.72	114	169	757	160	10
1964	4,037	2,979	1,058	73.79	26.21	137	192	711	169	18
1965	4,012	2,889	1,123	72.01	27.99	129	198	785	228	11
1966	4,136	2,953	1,183	71.40	28.60	166	197	805	236	15
1967	4,141	2,900	1,241	70.03	29.97	185	189	847	242	20
1968	4,455	3,109	1,346	69.79	30.21	210	214	887	264	35
1969	4,436	2,968	1,468	66.91	33.09	317	188	931	313	32

TYPES OF FATALITIES SUMMARY 1940 - 2018

TABLE H

County Population 1970: 1,721,300										
Year	Totals					Violent Deaths				
	Total Cases	Total Natural	Total Violent	% Natural	% Violent	Homicide	Suicide	Accident	Vehicular*	V.U.O.
1970	4,314	2,871	1,443	66.55	33.45	310	223	888	274	22
1971	4,246	2,825	1,421	66.53	33.47	324	202	869	229	26
1972	4,384	2,909	1,475	66.35	33.65	363	218	873	270	21
1973	4,321	2,780	1,541	64.34	35.66	327	259	930	253	25
1974	4,228	2,748	1,480	65.00	35.00	362	233	856	211	29
1975	4,005	2,583	1,422	64.49	35.51	351	218	834	214	19
1976	4,085	2,732	1,353	66.88	33.12	305	248	771	243	29
1977	4,185	2,826	1,359	67.53	32.47	300	251	785	229	23
1978	3,669	2,439	1,230	66.48	33.52	268	222	727	220	13
1979	3,782	2,371	1,411	62.69	37.31	325	276	791	261	19
County Population 1980: 1,498,400										
Year	Totals					Violent Deaths				
	Total Cases	Total Natural	Total Violent	% Natural	% Violent	Homicide	Suicide	Accident	Vehicular*	V.U.O.
1980	3,504	2,258	1,282	63.79	36.21	314	237	713	227	18
1981	3,147	1,930	1,217	61.33	38.67	269	238	694	223	16
1982	2,840	1,750	1,090	61.62	38.38	251	228	599	179	12
1983	2,957	1,883	1,074	63.68	36.32	196	191	673	212	14
1984	2,922	1,829	1,093	62.59	37.41	202	208	667	217	16
1985	2,782	1,748	1,034	62.83	37.14	188	220	608	201	18
1986	2,707	1,697	1,010	62.69	37.31	169	183	629	186	29
1987	2,713	1,679	1,034	61.89	38.11	183	187	643	181	21
1988	2,737	1,705	1,032	62.29	37.71	189	153	682	177	8
1989	3,028	1,824	1,204	60.24	39.76	188	183	820	176	13
County Population 1990: 1,412,140										
Year	Totals					Violent Deaths				
	Total Cases	Total Natural	Total Violent	% Natural	% Violent	Homicide	Suicide	Accident	Vehicular*	V.U.O.
1990	3,079	1,801	1,278	58.49	41.51	221	164	877	203	16
1991	3,118	1,833	1,285	58.79	41.21	236	184	845	182	20
1992	2,903	1,675	1,228	57.70	42.30	221	181	814	149	12
1993	3,121	1,729	1,363	56.33	43.67	218	183	949	143	13
1994	3,008	1,770	1,238	58.84	41.16	179	166	875	134	18
1995	3,157	1,751	1,406	55.46	44.54	166	195	1023	160	22
1996	2,768	1,562	1,206	56.43	43.57	144	151	890	152	21
1997	2,744	1,476	1,268	53.79	46.21	120	148	963	171	37
1998	3,096	1,861	1,235	60.11	39.89	123	148	942	154	22
1999	3,594	2,323	1,271	64.64	35.36	106	147	1005	151	13

TABLE H

TYPES OF FATALITIES SUMMARY 1940 - 2018

County Population 2000: 1,393,978										
Year	Totals					Violent Deaths				
	Total Cases	Total Natural	Total Violent	% Natural	% Violent	Homicide	Suicide	Accident	Vehicular*	V.U.O.
2000	3,813	2,479	1,334	65.01	34.99	100	147	1,078	157	9
2001	3,892	2,469	1,423	63.44	35.56	110	179	1,115	127	19
2002	3,671	2,452	1,219	66.79	33.21	117	167	919	130	16
2003	3,543	2,263	1,253	63.87	35.37	113	133	885	107	15
2004	3,678	2,348	1,304	63.84	35.45	108	162	1,014	134	20
2005	3,519	2,145	1,344	60.95	38.19	147	168	1,005	112	24
2006	3,564	2,134	1,404	59.88	39.39	146	142	1,101	109	15
2007	3,476	2,043	1,433	58.77	41.23	174	139	1,054	114	50
2008	3,274	1,912	1,362	58.40	41.60	124	160	1,042	143	36
2009	2,652	1,393	1,259	52.53	47.47	147	132	951	109	29

County Population 2010: 1,280,122													
Year	Totals									Violent Deaths			
	Total Cases	Total Natural	Total Violent	Total Undetermined	Total No Manner	% Natural	% Violent	% Undetermined	% No Manner	Homicide	Suicide	Accident	Vehicular
2010	2,451	1,139	1,259	53	0	46.47	51.37	2.16	0.00	98	144	1,017	128
2011	2,449	1,162	1,239	48	0	47.45	50.59	1.96	0.00	120	161	958	103
2012	2,219	1,004	1,164	47	4	45.25	52.46	2.11	0.18	143	170	851	95
2013	2,258	989	1,236	31	2	43.80	54.74	1.37	0.09	137	160	939	97
2014	2,251	981	1,224	39	7	43.58	54.38	1.73	0.31	140	151	933	82
2015	2,456	1,041	1,370	42	4	42.35	54.78	1.71	0.16	163	159	920	128
2016	2,903	1,009	1,850	29	15	34.76	63.73	1.00	0.52	189	174	1,348	139
2017	2,952	1,031	1,891	25	5	34.92	64.06	0.85	0.17	189	176	1,376	150
2018	2,810	1,104	1,673	28	5	39.29	59.54	1.00	0.18	188	214	1,160	111

*Vehicular fatalities are included in Accident totals.

2018 MEDICAL EXAMINER'S TRAUMA CASES TRANSPORTED FROM OTHER COUNTIES

TABLE I

County	Gender		Manner				Location of Death		Grand Total
	M	F	Vehicular	Homicide	Suicide	Accident	Cleveland	Rest of County	
Ashland	1	0	1	0	0	0	1	0	1
Ashtabula	3	1	0	2	0	2	4	0	4
Erie	1	0	0	0	0	1	1	0	1
Geauga	1	1	1	0	0	1	1	1	2
Huron	1	0	1	0	0	0	1	0	1
Lake	3	2	2	0	0	3	2	3	5
Lorain	9	2	2	3	3	3	9	2	11
Portage	2	0	0	1	0	1	2	0	2
Summit	1	1	0	0	1	1	0	2	2
Trumbull	2	0	1	0	0	1	2	0	2
Total	24	7	8	6	4	13	23	8	31

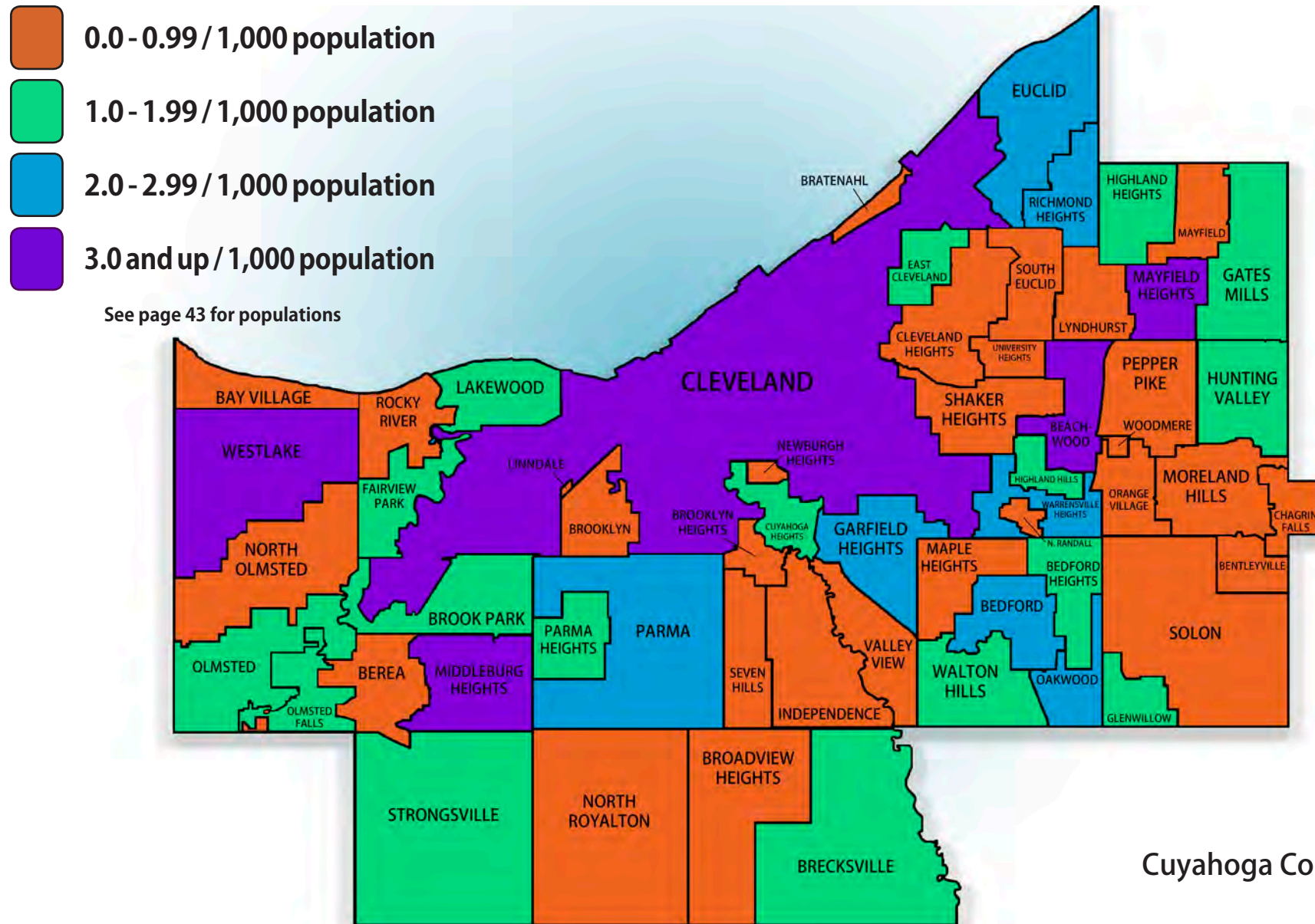
TABLE J

2018 AUTOPSIES PERFORMED FOR OTHER COUNTIES

County	Male	Female	Unknown	Grand Total
Ashland	4	6	0	10
Ashtabula	29	16	0	45
Columbiana	12	7	0	19
Geauga	47	12	0	59
Jefferson	4	1	0	5
Lake	55	25	0	80
Lorain	2	1	0	3
Mahoning	48	24	0	72
Medina	20	11	0	31
Portage	29	10	0	39
Stark	1	0	0	1
Trumbull	48	21	1	70
Total	299	134	1	434

2018 DISTRIBUTION OF MEDICAL EXAMINER'S CASES BY CITY PER 1,000 POPULATION

MAP 1A



Cuyahoga County, Ohio

Cities	Deaths	Population	%	Cities	Deaths	Population	%
Cleveland	1,443	396,815	36.36	Maple Heights	16	23,138	0.69
Bay Village	10	15,651	0.64	Mayfield Heights	100	19,155	5.22
Beachwood	58	11,953	4.85	Middleburg Heights	71	15,946	4.45
Bedford	35	13,074	2.68	North Olmsted	29	32,718	0.89
Bedford Heights	11	10,751	1.02	North Royalton	19	30,444	0.62
Berea	13	19,093	0.68	Olmsted Falls	14	9,024	1.55
Brecksville	17	13,656	1.24	Parma	169	81,601	2.07
Broadview Heights	13	19,400	0.67	Parma Heights	32	20,718	1.54
Brooklyn	10	11,169	0.90	Pepper Pike	2	5,979	0.33
Brook Park	21	19,212	1.09	Richmond Heights	23	10,546	2.18
Cleveland Heights	27	46,121	0.59	Rocky River	20	20,213	0.99
East Cleveland	33	17,843	1.85	Seven Hills	8	11,804	0.68
Euclid	101	48,920	2.06	Shaker Heights	18	28,448	0.63
Fairview Park	25	16,826	1.49	Solon	14	23,348	0.60
Garfield Heights	60	28,849	2.08	South Euclid	15	22,295	0.67
Highland Heights	12	8,345	1.44	Strongsville	70	44,750	1.56
Independence	5	7,133	0.70	University Heights	5	13,539	0.37
Lakewood	72	52,131	1.38	Warrensville Heights	40	13,542	2.95
Lyndhurst	8	14,001	0.57	Westlake	124	32,729	3.79
Villages	Deaths	Population	%	Villages	Deaths	Population	%
Bentleyville	0	864	0.00	Mayfield	2	3,460	0.58
Bratenahl	1	1,197	0.84	Moreland Hills	1	3,320	0.30
Brooklyn Heights	1	1,543	0.65	Newburgh Heights	1	2,167	0.46
Cuyahoga Heights	1	638	1.57	North Randall	0	1,027	0.00
Gates Mills	3	2,270	1.32	Oakwood	9	3,667	2.45
Glenwillow	1	923	1.08	Orange	1	3,323	0.30
Highland Hills	2	1,130	1.74	Valley View	1	2,034	0.49
Hunting Valley	1	589	1.70	Walton Hills	3	2,281	1.32
Linndale	0	179	0.00	Woodmere	0	884	0.00
Townships	Deaths	Population	%	Townships	Deaths	Population	%
Chagrin Falls	3	4,233	0.71	Olmsted Falls	16	13,513	1.18

POPULATION OF CUYAHOGA COUNTY BY CITIES, VILLAGES, TOWNSHIPS, AND DISTRICTS (2010 CENSUS)

Cities	
Cleveland.....	396,815
Bay Village	15,651
Beachwood.....	11,953
Bedford.....	13,074
Bedford Heights	10,751
Berea	19,093
Brecksville.....	13,656
Broadview Heights.....	19,400
Brooklyn.....	11,169
Brook Park.....	19,212
Cleveland Heights	46,121
East Cleveland.....	17,843
Euclid	48,920
Fairview Park.....	16,826
Garfield Heights.....	28,849
Highland Heights	8,345
Independence.....	7,133
Lakewood	52,131
Lyndhurst.....	14,001
Maple Heights.....	23,138
Mayfield Heights	19,155
Middleburg Heights	15,946
North Olmsted	32,718
North Royalton	30,444
Olmsted Falls.....	9,024
Parma.....	81,601
Parma Heights	20,718
Pepper Pike	5,979
Richmond Heights	10,546
Rocky River	20,213
Seven Hills.....	11,804
Shaker Heights.....	28,448
Solon	23,348
South Euclid	22,295
Strongsville.....	44,750
University Heights.....	13,539
Warrensville Heights	13,542
Westlake.....	32,729

Villages	
Bentleyville.....	864
Bratenahl.....	1,197
Brooklyn Heights.....	1,543
Cuyahoga Heights.....	638
Gates Mills.....	2,270
Glenwillow.....	923
Highland Hills.....	1,130
Hunting Valley	589
Linndale.....	179
Mayfield.....	3,460
Moreland Hills.....	3,320
Newburgh Heights.....	2,167
North Randall	1,027
Oakwood.....	3,667
Orange.....	3,323
Valley View	2,034
Walton Hills	2,281
Woodmere.....	884

Townships	
Chagrin Falls*	4,233
Olmsted.....	13,513

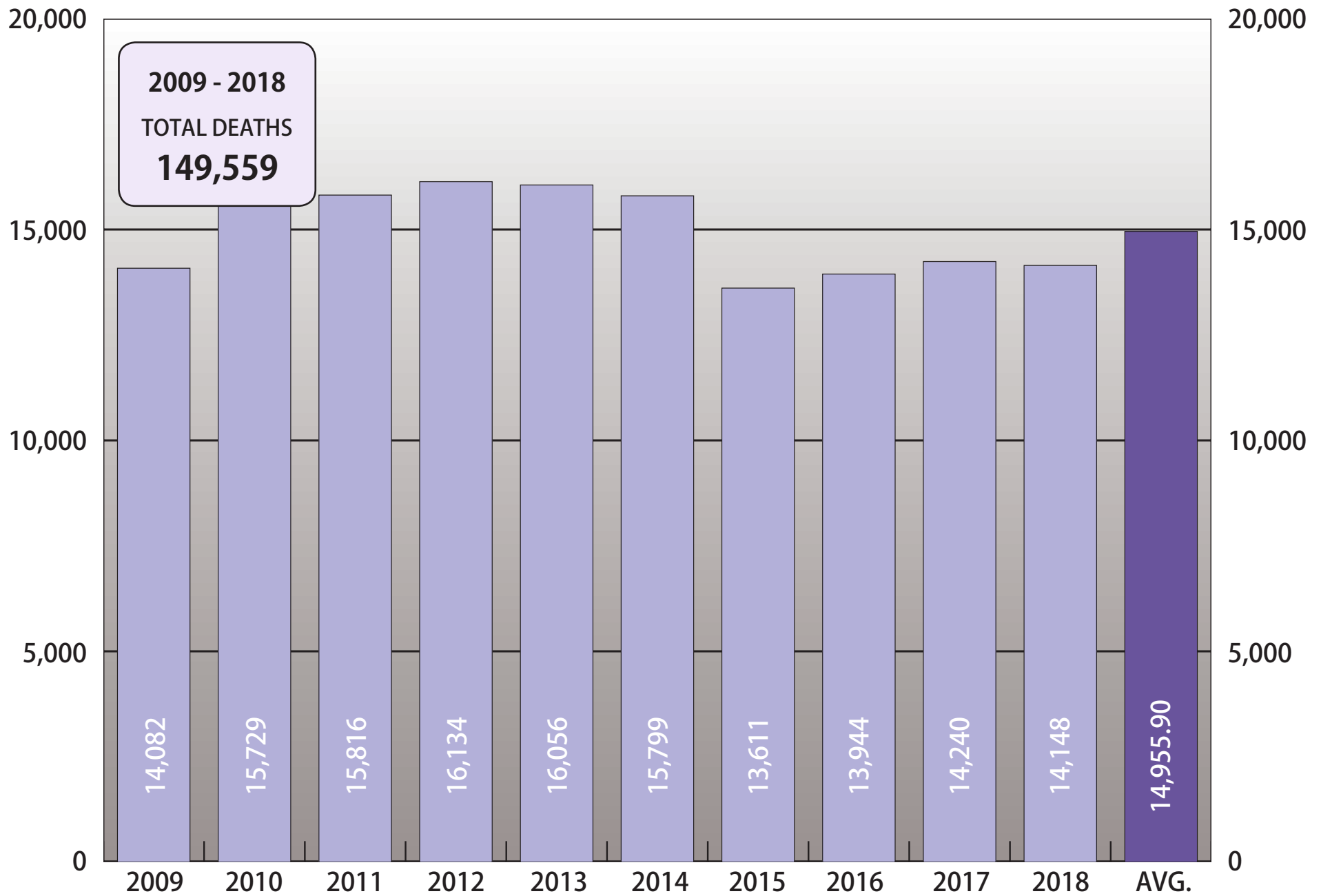
Council Districts**	
District 1	130,204
District 2	115,832
District 3	111,322
District 4	125,471
District 5	120,703
District 6	125,005
District 7	98,856
District 8	113,364
District 9	114,326
District 10.....	103,785
District 11.....	121,254

* Chagrin Falls data is reported for the combined communities of Chagrin Falls Village and Chagrin Falls Township.

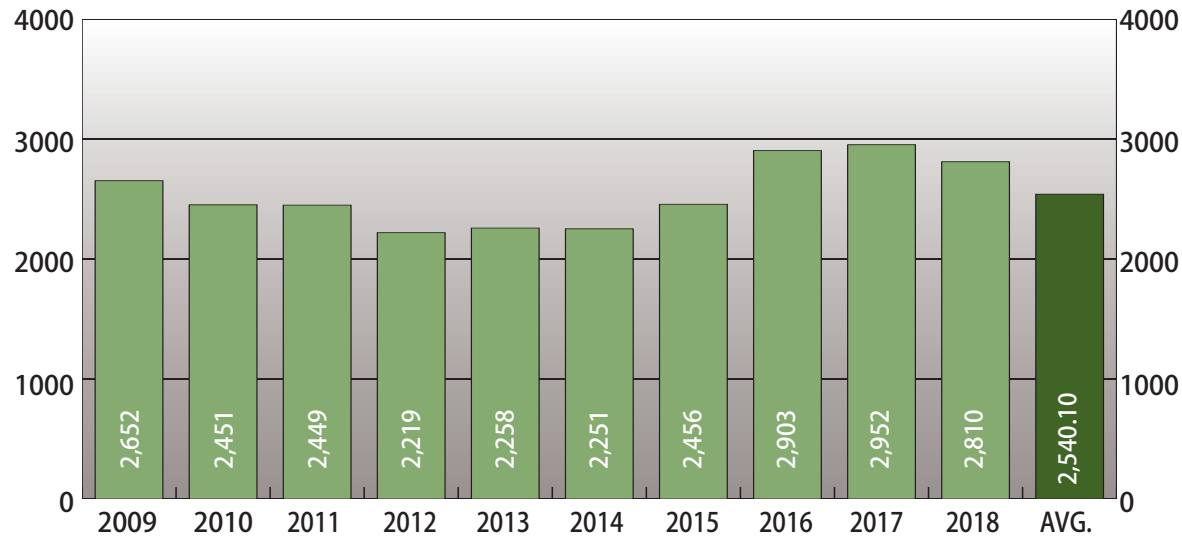
** Provided by: Northern Ohio Data and Information Service - NODIS, Maxine Goodman Levin College of Urban Affairs, Cleveland State University.

POPULATION OF CUYAHOGA COUNTY 1,280,122

TOTAL OF ALL DEATHS IN CUYAHOGA COUNTY FOR A PERIOD OF TEN YEARS

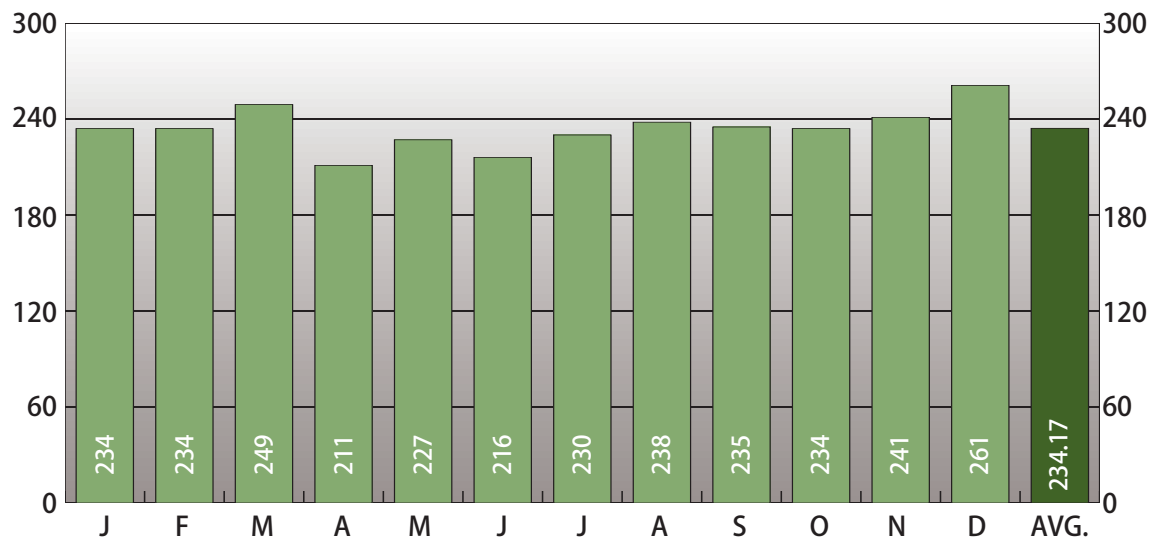


2018 SUMMARY OF MEDICAL EXAMINER'S CASES FOR A PERIOD OF TEN YEARS



2009 - 2018
TOTAL CASES
25,401
16.98%
OF TOTAL DEATHS

2018 SUMMARY OF MEDICAL EXAMINER'S CASES BY MONTH FOR THE YEAR 2018



2018
TOTAL CASES
2,810

TABLE 1

SUMMARY OF ALL FATALITIES BY TYPE, LOCATION WITH MISCELLANEOUS DATA

Type of Fatality	County			Out of County	Total	Miscellaneous	Total
	Cleveland	Other Cities	Rest of County				
Accidents in the Home	299	360	12	104	775	Cases Reported-Not Admitted	3,847
Accidents While at Work	3	1	1	2	7	Autopsies*	1,422*
Vehicular Fatalities	40	24	6	41	111	Autopsies Performed for Other Counties	434
Accidents in Other Places	130	190	19	39	378	Unidentified Bodies	0
Homicides	132	50	1	5	188	Unclaimed Bodies	92
Suicides	65	124	7	18	214	Donated Bodies	8
Total Violent Deaths	669	749	46	209	1,673	Total Deaths in Cuyahoga County	14,148
Natural Causes	515	568	21	0	1,104	Total Cases as a Percentage of Total Deaths	19.86%
Undetermined Causes	17	8	1	2	28		
No Manner Issued	5	0	0	0	5		
Total Cases Reported and Admitted	1,206	1,325	68	211	2,810		

*Includes 12 autopsies performed at hospitals.

2018 SUMMARY OF MEDICAL EXAMINER'S CASES

TOTAL CASES BY MONTH AND TYPE OF FATALITY

TABLE 2

Type of Fatality	January		February		March*		April		May		June		July		August		September		October*		November		December		Total		Grand Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Accidents in the Home	34	37	35	22	41	30	33	20	37	36	32	20	37	27	48	25	49	29	38	18	39	33	38	17	461	314	775
Accidents While at Work	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	3	0	7	0	7
Vehicular Accidents	5	0	7	0	11	4	5	4	9	1	7	4	4	3	5	2	8	7	8	2	3	1	8	3	80	31	111
Accidents in Other Places	26	20	18	15	19	17	17	11	15	12	20	13	15	9	18	24	15	13	14	14	13	13	13	14	203	175	378
Homicides	9	4	12	3	5	5	11	1	6	1	17	4	14	3	19	1	15	10	14	4	11	7	10	2	143	45	188
Suicides	10	5	21	3	13	2	11	6	13	8	15	1	18	4	11	5	11	4	15	3	9	6	14	6	161	53	214
Natural Causes	56	24	62	32	64	35	51	36	53	33	56	24	55	40	54	25	37	34	57	40	55	49	87	45	687	417	1,104
Undetermined Causes	3	0	1	2	2	0	1	4	2	1	2	0	1	0	0	0	2	1	1	3	1	0	0	1	16	12	28
No Manner Issued	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	3	4*
Total	144	90	157	77	155	93	129	82	135	92	150	66	144	86	155	83	137	98	149	85	131	110	173	88	1759	1050	2,809

*Gender is unknown for 1 No Manner Issued case.

2018 SUMMARY OF MEDICAL EXAMINER'S CASES

TABLE 3

AUTOPSIES BY MONTH AND TYPE OF FATALITY

Type of Fatality	January		February		March*		April		May		June		July		August		September		October*		November		December		Total		Grand Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Accidents in the Home	23	16	18	5	21	16	20	8	19	11	25	7	25	13	29	14	30	15	23	7	22	12	21	6	276	130	406
Accidents While at Work	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2	0	2
Vehicular Accidents	0	0	7	0	7	1	2	1	4	1	1	4	4	2	2	1	6	3	4	2	1	0	2	2	40	17	57
Accidents in Other Places	10	3	9	3	7	3	6	1	8	2	11	2	8	2	9	5	6	2	7	5	10	2	8	3	99	33	132
Homicides	9	4	12	3	5	5	11	1	6	1	17	4	14	3	19	1	15	10	14	4	11	7	10	2	143	45	188
Suicides	7	4	16	1	9	2	11	4	12	7	14	0	16	3	11	4	9	3	13	2	8	4	12	4	138	38	176
Natural Causes	22	9	32	8	33	12	24	13	18	15	28	7	24	12	22	11	17	10	22	12	18	13	34	15	294	137	431
Undetermined Causes	3	0	1	2	2	0	0	4	2	1	2	0	1	0	0	0	2	1	1	3	0	0	0	1	14	12	26
No Manner Issued	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	3	3*
Total	74	36	95	22	84	39	74	32	69	38	98	24	92	35	92	37	85	44	85	36	70	39	88	33	1006	415	1,421

*Gender is unknown for 1 No Manner Issued case.

2018 SUMMARY OF MEDICAL EXAMINER'S CASES

TOTAL CASES BY AGE GROUP AND TYPE OF FATALITY

TABLE 4

Type of Fatality	< Than 1*		1-4		5-9		10-14		15-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80 and Over		Total		Grand Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
Accidents in the Home	6	5	1	0	0	1	0	0	1	2	12	6	29	15	36	17	39	18	31	13	29	13	30	15	48	18	42	19	31	13	22	12	22	17	82	130	461	314	775
Accidents While at Work	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	2	0	0	0	1	0	1	0	0	0	7	0	7
Vehicular Accidents	0	0	2	1	0	1	0	2	4	2	5	5	4	3	6	0	4	0	5	2	9	0	2	1	5	4	11	0	10	2	7	2	1	2	5	4	80	31	111
Accidents in Other Places	0	1	1	0	0	0	3	0	2	1	1	5	15	5	19	4	11	6	8	6	15	6	13	7	13	9	19	4	5	5	14	4	11	7	53	105	203	175	378
Homicides	0	1	5	2	0	2	0	1	11	4	16	2	35	6	14	7	18	3	5	3	9	2	11	3	8	4	3	2	5	0	3	2	0	0	0	1	143	45	188
Suicides	0	0	0	0	0	0	1	0	8	3	12	3	16	5	15	2	14	4	15	3	11	2	10	6	14	5	12	8	14	7	5	3	9	2	5	0	161	53	214
Natural Causes	5	2	2	3	0	1	2	0	1	0	5	3	6	7	11	8	20	8	23	14	33	23	69	23	94	44	126	43	89	48	68	37	44	41	89	112	687	417	1,104
Undetermined Causes*	4	5	0	1	0	0	2	0	0	1	0	0	2	0	0	0	2	1	0	0	1	0	0	1	1	0	1	0	2	1	0	1	0	0	1	1	16	12	28
No Manner Issued	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4*
Total	16	17	11	7	0	5	8	3	27	13	51	24	107	41	101	38	108	40	87	41	107	46	135	56	186	84	216	76	156	76	120	61	88	69	235	353	1759	1050	2,809

*Gender is unknown for 1 No Manner Issued case.

AUTOPSIES BY AGE GROUP AND TYPE OF FATALITY

TABLE 5

Type of Fatality	< Than 1*		1-4		5-9		10-14		15-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80 and Over		Total		Grand Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
Accidents in the Home	6	5	1	0	0	1	0	0	1	1	9	6	27	13	29	13	34	16	26	12	24	9	23	10	34	13	28	10	18	4	7	2	6	2	3	13	276	130	406
Accidents While at Work	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	2	
Vehicular Accidents	0	0	1	0	0	1	0	0	2	2	3	3	2	2	4	0	4	0	3	2	7	0	0	0	4	3	2	0	4	1	2	2	0	0	2	1	40	17	57
Accidents in Other Places	0	1	1	0	0	0	3	0	1	1	1	4	13	5	16	2	8	4	7	5	14	4	8	2	8	2	11	1	2	0	0	0	3	1	3	1	99	33	132
Homicides	0	1	5	2	0	2	0	1	11	4	16	2	35	6	14	7	18	3	5	3	9	2	11	3	8	4	3	2	5	0	3	2	0	0	0	1	143	45	188
Suicides	0	0	0	0	0	0	1	0	6	2	10	2	13	5	11	2	10	3	14	2	11	2	9	4	14	3	10	6	13	5	4	1	7	1	5	0	138	38	176
Natural Causes	5	2	1	3	0	1	2	0	1	0	4	2	5	6	10	6	16	5	18	11	22	18	40	9	50	17	44	20	32	11	22	8	11	7	11	11	294	137	431
Undetermined Causes*	4	5	0	1	0	0	2	0	0	1	0	0	2	0	0	0	2	1	0	0	1	0	0	1	1	0	1	0	1	1	0	1	0	0	0	1	14	12	26
No Manner Issued	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3*
Total	15	17	9	6	0	5	8	1	22	11	43	19	97	37	84	30	92	32	73	35	88	35	91	29	121	42	99	39	75	22	38	16	27	11	24	28	1,006	415	1,421

*Gender is unknown for 1 No Manner Issued case.

2018 SUMMARY OF MEDICAL EXAMINER'S CASES

GEOGRAPHICAL LOCATION - ALL FATALITIES SUMMARY

TABLE 6A

Cities	Violent Deaths												Grand Total
	Accidents					Other Violence							
	Accidents in the Home	Accidents While at Work	Vehicular Accidents	Accidents in Other Places	Total Accidents	Homicides	Suicides	Total Other Violence	Natural Causes	Undetermined Causes	No Manner Issued	Total Other Deaths	
Cleveland	424	7	78	161	670	147	85	232	515	21	5	541	1,443
Bay Village	1	0	0	3	4	0	1	1	5	0	0	5	10
Beachwood	11	0	3	17	31	2	3	5	22	0	0	22	58
Bedford	7	0	2	4	13	2	3	5	16	1	0	17	35
Bedford Heights	2	0	0	0	2	0	1	1	8	0	0	8	11
Berea	1	0	0	4	5	0	2	2	6	0	0	6	13
Brecksville	5	0	1	2	8	0	2	2	7	0	0	7	17
Broadview Heights	2	0	0	3	5	0	3	3	5	0	0	5	13
Brooklyn	2	0	0	1	3	0	1	1	6	0	0	6	10
Brook Park	11	0	1	2	14	0	2	2	5	0	0	5	21
Cleveland Heights	3	0	1	1	5	0	4	4	18	0	0	18	27
East Cleveland	8	0	0	6	14	4	2	6	13	0	0	13	33
Euclid	22	0	0	11	33	6	11	17	50	1	0	51	101
Fairview Park	8	0	0	0	8	0	5	5	12	0	0	12	25
Garfield Heights	22	0	1	6	29	5	5	10	20	1	0	21	60
Highland Heights	1	0	0	4	5	0	2	2	5	0	0	5	12
Independence	1	0	1	0	2	0	2	2	1	0	0	1	5
Lakewood	22	0	0	7	29	1	7	8	35	0	0	35	72
Lyndhurst	2	0	0	2	4	0	0	0	4	0	0	4	8
Maple Heights	4	0	0	0	4	1	2	3	9	0	0	9	16
Mayfield Heights	32	0	4	22	58	3	4	7	34	1	0	35	100
Middleburg Heights	19	0	3	14	36	1	5	6	29	0	0	29	71
North Olmsted	6	0	0	3	9	0	4	4	16	0	0	16	29
North Royalton	1	0	0	1	2	2	7	9	8	0	0	8	19
Olmsted Falls	1	0	0	4	5	0	3	3	6	0	0	6	14
Parma	53	0	2	23	78	6	13	19	71	1	0	72	169

TABLE 6A

GEOGRAPHICAL LOCATION - ALL FATALITIES SUMMARY (continued)

Cities	Violent Deaths												Grand Total
	Accidents					Other Violence							
	Accidents in the Home	Accidents While at Work	Vehicular Accidents	Accidents in Other Places	Total Accidents	Homicides	Suicides	Total Other Violence	Natural Causes	Undetermined Causes	No Manner Issued	Total Other Deaths	
Parma Heights	9	0	0	0	9	0	3	3	20	0	0	20	32
Pepper Pike	0	0	0	0	0	0	1	1	1	0	0	1	2
Richmond Heights	3	0	2	6	11	3	1	4	7	1	0	8	23
Rocky River	3	0	0	1	4	0	2	2	14	0	0	14	20
Seven Hills	1	0	0	0	1	0	1	1	6	0	0	6	8
Shaker Heights	4	0	0	1	5	1	3	4	9	0	0	9	18
Solon	4	0	0	2	6	0	0	0	8	0	0	8	14
South Euclid	4	0	1	0	5	0	5	5	5	0	0	5	15
Strongsville	23	0	0	14	37	0	8	8	25	0	0	25	70
University Heights	2	0	0	0	2	0	1	1	2	0	0	2	5
Warrensville Heights	5	0	4	6	15	4	1	5	20	0	0	20	40
Westlake	41	0	5	35	81	0	3	3	40	0	0	40	124
Total	770	7	109	366	1,252	188	208	396	1,083	27	5	1,115	2,763

TABLE 6B

GEOGRAPHICAL LOCATION - ALL FATALITIES SUMMARY

VILLAGES:													
Bentleyville	0	0	0	0	0	0	0	0	0	0	0	0	0
Bratenahl	0	0	0	0	0	0	0	0	1	0	0	1	1
Brooklyn Heights	1	0	0	0	1	0	0	0	0	0	0	0	1
Cuyahoga Heights	0	0	0	1	1	0	0	0	0	0	0	0	1
Gates Mills	1	0	1	1	3	0	0	0	0	0	0	0	3
Glenwillow	0	0	1	0	1	0	0	0	0	0	0	0	1
Highland Hills	0	0	0	0	0	0	0	0	2	0	0	2	2
Hunting Valley	0	0	0	0	0	0	1	1	0	0	0	0	1
Linndale	0	0	0	0	0	0	0	0	0	0	0	0	0

2018 SUMMARY OF MEDICAL EXAMINER'S CASES

GEOGRAPHICAL LOCATION - ALL FATALITIES SUMMARY (continued)

TABLE 6B

Villages and Townships		Violent Deaths											Grand Total	
		Accidents				Other Violence			Other Deaths					
		Accidents in the Home	Accidents While at Work	Vehicular Accidents	Accidents in Other Places	Total Accidents	Homicides	Suicides	Total Other Violence	Natural Causes	Undetermined Causes	No Manner Issued		Total Other Deaths
VILLAGES (cont): Mayfield Village		0	0	0	2	2	0	0	0	0	0	0	0	2
Moreland Hills		0	0	0	0	0	0	0	0	1	0	0	1	1
Newburgh Heights		0	0	0	0	0	0	0	0	1	0	0	1	1
North Randall		0	0	0	0	0	0	0	0	0	0	0	0	0
Oakwood Village		0	0	0	2	2	0	2	2	5	0	0	5	9
Orange Village		0	0	0	0	0	0	0	0	1	0	0	1	1
Walton Hills		0	0	0	1	1	0	0	0	0	0	0	0	1
Valley View		0	0	0	0	0	0	0	0	3	0	0	3	3
Woodmere		0	0	0	0	0	0	0	0	0	0	0	0	0
TOWNSHIPS: Chagrin Falls		0	0	0	2	2	0	0	0	1	0	0	1	3
Olmsted Township		3	0	0	3	6	0	3	3	6	1	0	7	16
Total		5	0	2	12	19	0	6	6	21	1	0	22	47

GEOGRAPHICAL LOCATION - ALL FATALITIES SUMMARY

TABLE 7

Geographical Location		Violent Deaths												Grand Total
		Accidents					Other Violence							
		Accidents in the Home	Accidents While at Work	Vehicular Accidents	Accidents in Other Places	Total Accidents	Homicides	Suicides	Total Other Violence	Natural Causes	Undetermined Causes	No Manner Issued	Total Other Deaths	
Cities		659	4	64	320	1,047	182	189	371	1,083	25	5	1,113	2,531
Villages		7	1	6	13	27	1	4	5	14	0	0	14	46
Townships		5	0	0	6	11	0	3	3	7	1	0	8	22
Out of County		104	2	41	39	186	5	18	23	0	2	0	2	211
Total		775	7	111	378	1,271	188	214	402	1,104	28	5	1,137	2,810

TABLE 8

ACCIDENT FATALITIES BY MONTH

Month	Home Accidents							Work Accidents							Vehicular Accidents							Other Accidents							Totals						Grand Total
	Cleveland	Other Cities	Villages	Townships	Out of County	Unknown	Total	Cleveland	Other Cities	Villages	Townships	Out of County	Unknown	Total	Cleveland	Other Cities	Villages	Townships	Out of County	Unknown	Total	Cleveland	Other Cities	Villages	Townships	Out of County	Unknown	Total	Cleveland	Other Cities	Villages	Townships	Out of County	Unknown	
January	28	31	1	2	9	0	71	0	0	0	0	1	0	1	1	1	0	0	2	1	5	7	23	1	0	5	10	46	36	55	2	2	17	11	123
February	19	29	0	0	9	0	57	0	0	0	0	0	0	0	6	0	1	0	0	0	7	12	14	0	1	2	4	33	37	43	1	1	11	4	97
March	28	29	0	2	12	0	71	0	0	0	0	0	0	0	4	2	0	0	9	0	15	9	12	3	0	4	8	36	41	43	3	2	25	8	122
April	22	26	0	0	5	0	53	0	0	0	0	0	0	0	3	1	0	0	5	0	9	8	14	0	0	2	4	28	33	41	0	0	12	4	90
May	27	34	1	0	11	0	73	0	0	0	0	0	0	0	2	3	1	0	4	0	10	8	11	2	0	2	4	27	37	48	4	0	17	4	110
June	26	20	0	0	4	2	52	0	1	0	0	0	0	1	4	2	0	0	5	0	11	7	15	2	1	4	4	33	37	38	2	1	13	6	97
July	23	27	2	0	12	0	64	0	0	0	0	0	0	0	2	1	1	0	3	0	7	8	9	1	1	1	4	24	33	37	4	1	16	4	95
August	22	40	0	1	9	1	73	0	0	0	0	0	0	0	2	1	0	0	4	0	7	11	20	2	1	6	2	42	35	61	2	2	19	3	122
September	30	39	0	0	8	1	78	0	0	0	0	0	0	0	6	4	0	0	4	1	15	5	12	0	0	3	8	28	41	55	0	0	15	10	121
October	26	23	1	0	6	0	56	2	0	0	0	0	0	2	4	4	0	0	2	0	10	7	13	0	1	2	5	28	39	40	1	1	10	5	96
November	30	30	0	0	12	0	72	0	0	0	0	0	0	0	3	0	0	0	1	0	4	6	7	1	0	5	6	25	39	37	1	0	18	6	101
December	16	30	2	0	7	0	55	1	0	1	0	1	0	3	1	4	3	0	2	1	11	11	8	0	0	3	5	27	29	42	6	0	13	6	96
Total	297	358	7	5	104	4	775	3	1	1	0	2	0	7	38	23	6	0	41	3	111	99	158	12	5	39	64	377	437	540	26	10	186	71	1,270

2018 SUMMARY OF MEDICAL EXAMINER'S CASES

HOMICIDE AND SUICIDE FATALITIES BY MONTH

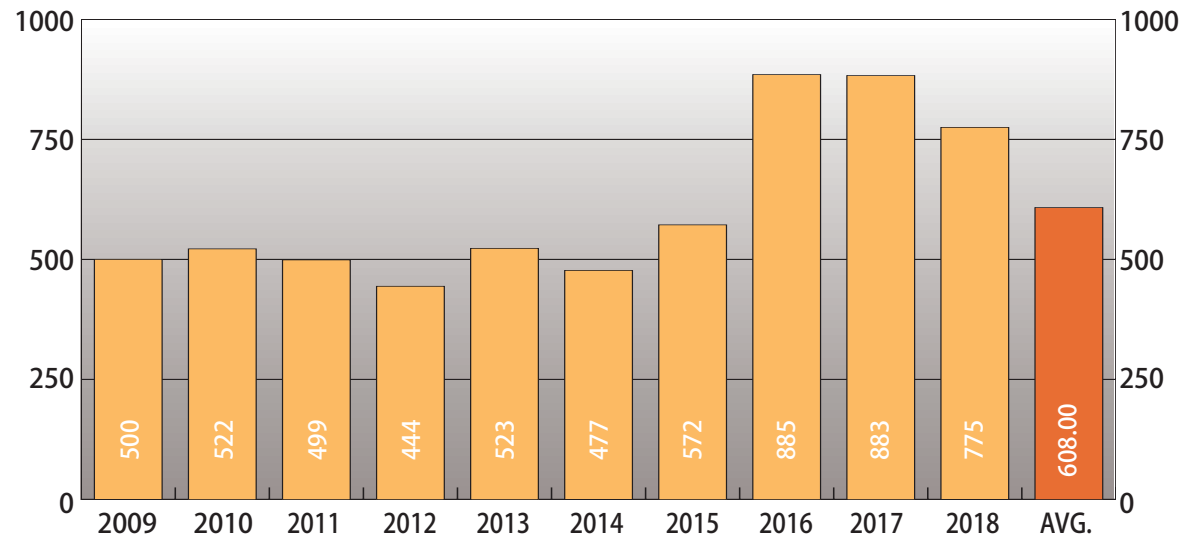
TABLE 9

Month	Homicide							Suicide							Totals						Grand Total
	Cleveland	Other Cities	Villages	Townships	Out of County	Unknown	Total	Cleveland	Other Cities	Villages	Townships	Out of County	Unknown	Total	Cleveland	Other Cities	Villages	Townships	Out of County	Unknown	
January	9	4	0	0	0	0	13	5	9	0	0	1	0	15	14	13	0	0	1	0	28
February	9	4	0	0	2	0	15	6	13	1	0	4	0	24	15	17	1	0	6	0	39
March	7	3	0	0	0	0	10	4	8	0	1	2	0	15	11	11	0	1	2	0	25
April	11	0	0	0	1	0	12	7	8	1	0	1	0	17	18	8	1	0	2	0	29
May	5	2	0	0	0	0	7	5	16	0	0	0	0	21	10	18	0	0	0	0	28
June	17	3	1	0	0	0	21	4	11	0	0	1	0	16	21	14	1	0	1	0	37
July	14	2	0	0	1	0	17	7	13	0	1	1	0	22	21	15	0	1	2	0	39
August	16	4	0	0	0	0	20	4	10	0	1	1	0	16	20	14	0	1	1	0	36
September	19	4	0	0	2	0	25	5	7	0	0	3	0	15	24	11	0	0	5	0	40
October	9	7	0	0	0	2	18	4	12	0	0	2	0	18	13	19	0	0	2	2	36
November	8	9	0	0	0	1	18	3	11	1	0	0	0	15	11	20	1	0	0	1	33
December	7	5	0	0	0	0	12	11	6	1	0	2	0	20	18	11	1	0	2	0	32
Total	131	47	1	0	6	3	188	65	124	4	3	18	0	214	196	171	5	3	24	3	402



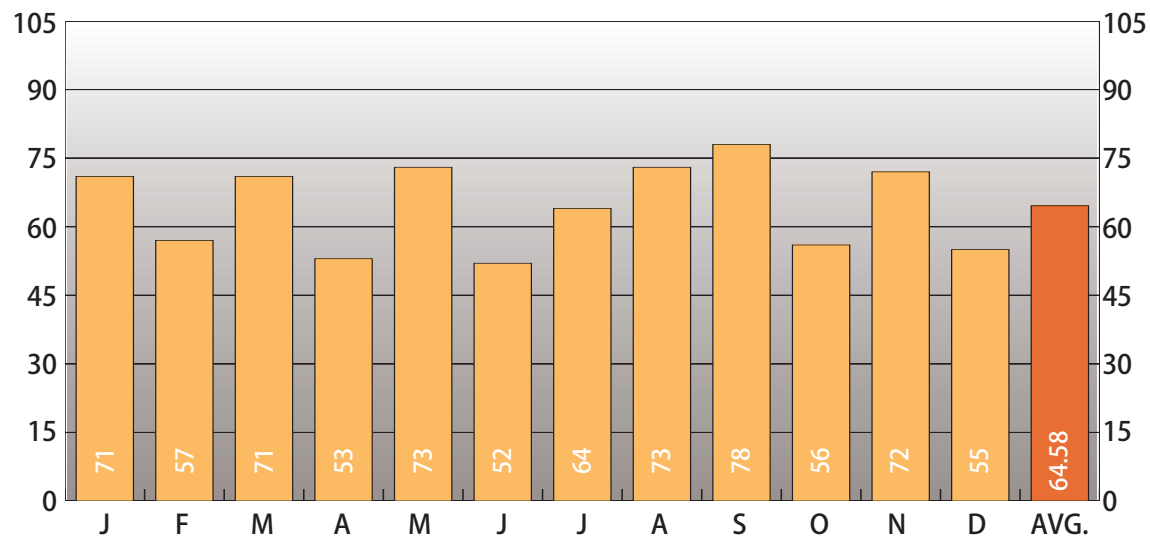
Photograph by J. Bielinski

2018 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME FOR A PERIOD OF TEN YEARS

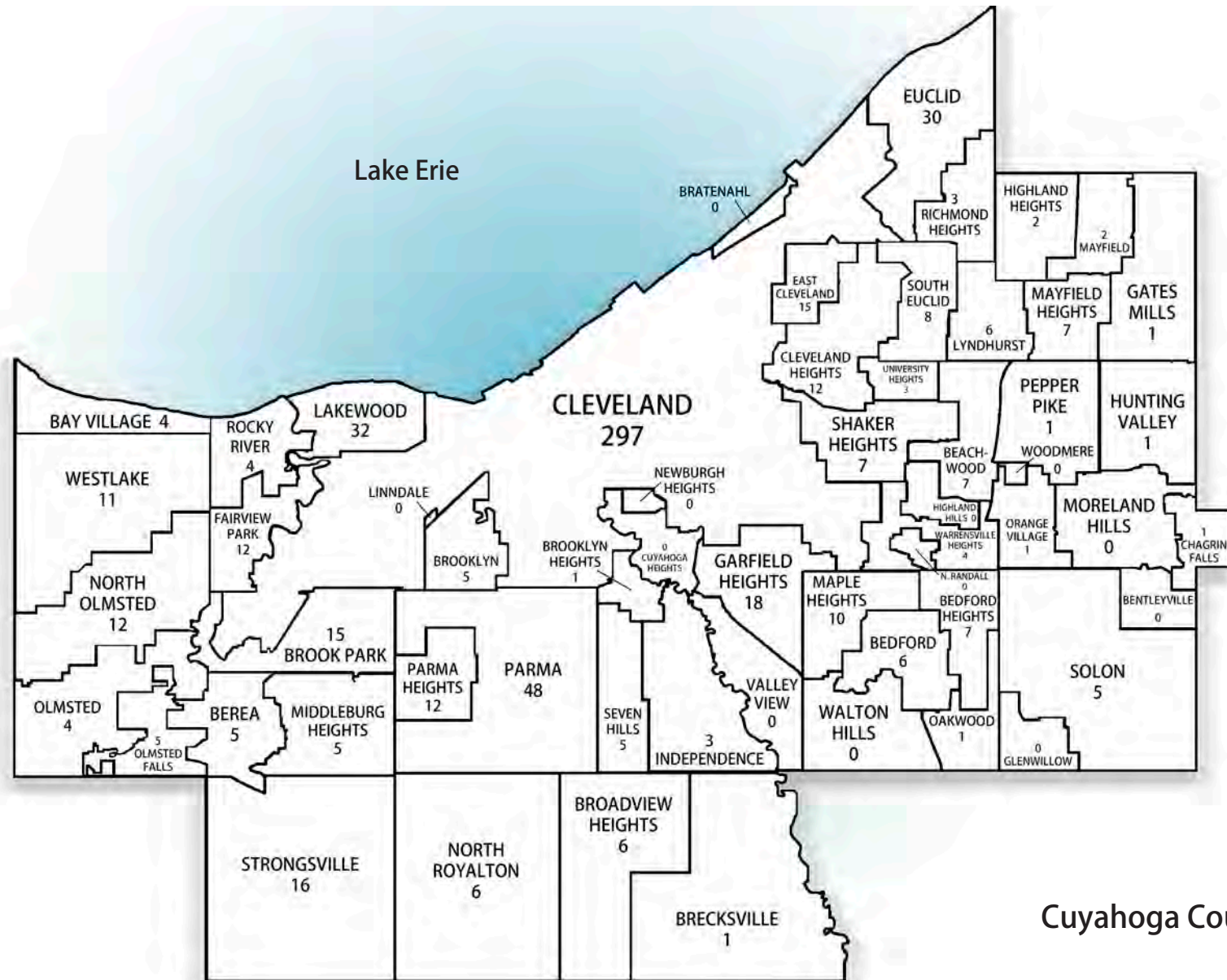


2018
TOTAL CASES
775

2018 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME BY MONTH FOR THE YEAR 2018



		Number	Percent
Gender	Male	461	59.48
	Female	314	40.52
Race	White	605	78.06
	Black	163	21.03
	American Indian/Alaskan Native	1	0.13
	Asian	5	0.65
	Asian Indian	1	0.13
	Hispanic	21	2.71
Ethnicity	Non-Hispanic	754	97.29
	Tested	434	56.00
Ethanol	Positive	135	17.42
	Autopsied	406	52.39



Cuyahoga County, Ohio

*Injury location is unknown for 4 cases and 104 cases are from outside of Cuyahoga County.

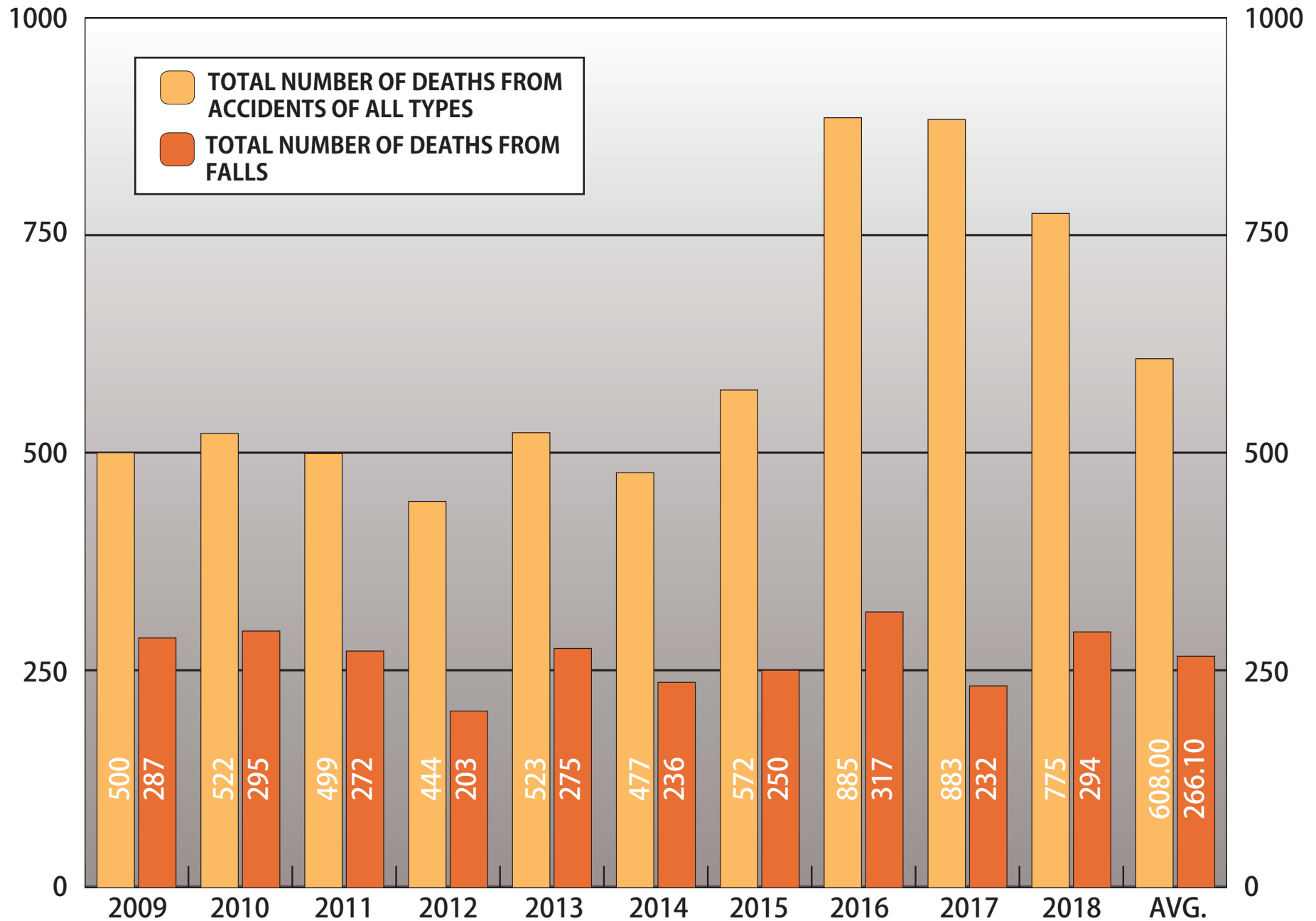
2018 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

DISTRIBUTION OF FATALITIES FROM ACCIDENTS IN THE HOME BY CITY* (continued)

MAP 2

Cities			
Cleveland	297	Maple Heights	10
Bay Village	4	Mayfield Heights	7
Beachwood	7	Middleburg Heights	5
Bedford	6	North Olmsted	12
Bedford Heights	7	North Royalton	6
Berea	5	Olmsted Falls	5
Brecksville	1	Parma	48
Broadview Heights	6	Parma Heights	12
Brooklyn	5	Pepper Pike	1
Brook Park	15	Richmond Heights	3
Cleveland Heights	12	Rocky River	4
East Cleveland	15	Seven Hills	5
Euclid	30	Shaker Heights	7
Fairview Park	12	Solon	5
Garfield Heights	18	South Euclid	8
Highland Heights	2	Strongsville	16
Independence	3	University Heights	3
Lakewood	32	Warrensville Heights	4
Lyndhurst	6	Westlake	11
Villages			
Bentleyville	0	Mayfield Village	2
Bratenahl	0	Moreland Hills	0
Brooklyn Heights	1	Newburgh Heights	0
Cuyahoga Heights	0	North Randall	0
Gates Mills	1	Oakwood Village	1
Glenwillow	0	Orange Village	1
Highland Hills	0	Valley View	0
Hunting Valley	1	Walton Hills	0
Linndale	0	Woodmere	0
Townships			
Chagrin Falls	1	Olmsted Township	4

DEATHS RESULTING FROM ACCIDENTS AND ACCIDENTAL FALLS IN THE HOME FOR A PERIOD OF TEN YEARS



2018 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

MONTHLY ETHANOL INCIDENCE

TABLE 10

												Not Tested		Tested						Stages													
														Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Month	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Jan.	71	34	37	16	12	15	19	3	6	0	0	14	23	20	14	13	11	7	3	2	3	1	0	2	0	0	0	1	0	1	0	0	0
Feb.	57	35	22	15	4	14	15	6	3	0	0	12	18	23	4	19	3	4	1	1	0	0	0	3	0	0	0	0	0	0	0	0	1
Mar.	71	41	30	17	11	19	12	5	7	0	0	22	16	19	14	15	9	4	5	0	2	3	1	0	1	1	0	0	1	0	0	0	0
Apr.	53	33	20	17	5	14	12	2	3	0	0	10	10	23	10	15	8	8	2	2	1	1	0	3	0	2	0	0	1	0	0	0	0
May	73	37	36	17	10	16	19	4	7	0	0	14	25	23	11	16	8	7	3	1	0	3	1	1	1	1	1	1	0	0	0	0	0
Jun.	52	32	20	18	8	13	7	0	4	1	1	6	12	26	8	17	5	9	3	3	3	2	0	2	0	1	0	0	0	1	0	0	0
July	64	37	27	13	10	18	11	6	6	0	0	11	14	26	13	14	12	12	1	5	1	4	0	0	0	2	0	1	0	0	0	0	0
Aug.	73	48	25	16	6	27	14	5	4	0	1	16	9	32	16	22	13	10	3	2	1	2	0	4	1	1	0	0	0	1	1	0	0
Sept.	78	49	29	20	10	23	16	6	2	0	1	18	14	31	15	18	12	13	3	7	2	1	0	4	0	1	1	0	0	0	0	0	0
Oct.	56	38	18	18	8	18	6	2	4	0	0	13	9	25	9	16	8	9	1	2	0	0	1	2	0	2	0	1	0	1	0	1	0
Nov.	72	39	33	16	14	18	12	5	7	0	0	10	19	29	14	19	9	10	5	4	3	0	1	3	0	0	1	1	0	1	0	1	0
Dec.	55	38	17	12	4	21	11	5	2	0	0	14	12	24	5	15	2	9	3	5	1	0	0	3	0	0	2	0	0	0	0	1	0
Total	775	461	314	195	102	216	154	49	55	1	3	160	181	301	133	199	100	102	33	34	17	17	4	27	3	11	5	5	2	5	1	3	1

2018 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

TABLE 11

AGE - RACE - ETHNICITY - ETHANOL INCIDENCE

					Not Tested		Tested						Stages													
			Ethnicity				Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Age	Race	Total	Hispanic	Non-Hispanic	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
< 1 Year	White	2	1	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	9	0	9	0	0	5	4	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1 - 4	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Black	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5 - 9	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Black	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10 - 14	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15 - 19	White	2	0	2	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Black	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20 - 24	White	16	0	16	1	0	10	5	7	5	3	0	2	0	1	0	0	0	0	0	0	0	0	0	0	
	Black	2	0	2	0	0	1	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25 - 29	White	33	6	27	1	0	19	13	17	11	2	2	0	2	1	0	0	0	1	0	0	0	0	0	0	
	Black	11	1	10	0	0	9	2	7	1	2	1	0	1	1	0	1	0	0	0	0	0	0	0	0	
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

2018 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

AGE - RACE - ETHNICITY - ETHANOL INCIDENCE (continued)

TABLE 11

			Ethnicity		Not Tested		Tested						Stages													
		Total					Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over			
Age	Race	Total	Hispanic	Non-Hispanic	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
30 - 34	White	50	2	48	3	1	30	16	23	13	7	3	3	1	0	0	4	0	0	1	0	0	0	0	1	
	Black	2	1	1	0	0	2	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0		
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	Asian Indian	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
35 - 39	White	49	4	45	3	2	30	14	24	10	6	4	2	2	1	0	2	0	0	1	1	1	0	0	0	
	Black	8	0	8	0	0	6	2	4	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0		
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
40 - 44	White	38	1	37	2	1	24	11	18	8	6	3	3	2	0	0	2	0	0	1	1	0	0	0	0	
	Black	6	0	6	1	0	4	1	0	1	4	0	1	0	1	0	2	0	0	0	0	0	0	0		
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
45 - 49	White	31	0	31	3	2	18	8	12	7	6	1	3	0	1	0	2	0	0	0	1	0	0	0	0	
	Black	11	0	11	1	1	7	2	3	1	4	1	1	0	0	0	3	0	0	0	0	1	0	0	0	
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
50 - 54	White	32	3	29	5	2	15	10	9	5	6	5	1	4	0	0	1	1	2	0	0	0	1	0	1	
	Black	13	0	13	0	0	10	3	6	0	4	3	1	2	0	0	1	1	0	0	2	0	0	0	0	
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
55 - 59	White	52	0	52	8	3	27	14	12	13	15	1	4	0	4	0	3	0	1	1	0	0	2	0	1	
	Black	13	0	13	3	0	9	1	1	1	8	0	4	0	2	0	0	0	0	0	0	2	0	0	0	
	American Indian or Alaskan Native	1	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
60 - 64	White	39	1	38	6	9	20	4	10	2	10	2	4	0	2	0	3	0	1	1	0	0	0	1	0	
	Black	22	0	22	1	0	15	6	12	2	3	4	1	1	0	2	1	1	1	0	0	0	0	0	0	
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

2018 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

TABLE 11

AGE - RACE - ETHNICITY - ETHANOL INCIDENCE (continued)

					Not Tested		Tested						Stages													
			Ethnicity				Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Age	Race	Total	Hispanic	Non-Hispanic	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
65 - 69	White	18	0	18	6	6	5	1	4	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Black	26	0	26	3	4	17	2	12	1	5	1	1	0	2	1	1	0	0	0	0	0	0	0	1	0
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 - 74	White	26	0	26	11	10	4	1	3	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Black	7	0	7	3	1	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 - 79	White	31	0	31	15	11	3	2	1	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
	Black	8	0	8	2	4	2	0	0	0	2	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 and Over	White	186	1	185	72	107	1	6	1	5	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	Black	22	0	22	5	13	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	4	0	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	White	605	19	586	137	155	206	107	141	85	65	22	22	12	10	1	17	1	8	5	3	1	3	1	2	1
	Black	163	2	161	20	24	93	26	57	15	36	11	12	5	7	3	10	2	2	0	2	1	2	0	1	0
	American Indian or Alaskan Native	1	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Asian	5	0	5	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total		775	21	754	160	181	301	133	199	100	102	33	34	17	17	4	27	3	11	5	5	2	5	1	3	1

2018 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

MODE - ETHANOL INCIDENCE

TABLE 12

												Not Tested		Tested						Stages														
														Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over		
Total		Cleveland		County		Out of County		Unknown																										
Mode	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Asphyxia	29	16	13	7	4	9	8	0	1	0	0	2	4	14	9	13	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Burning	7	4	3	1	2	1	0	2	1	0	0	4	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Carbon Monoxide	13	10	3	8	1	2	2	0	0	0	0	7	1	3	2	1	2	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Exposure	7	1	6	0	2	1	4	0	0	0	0	1	4	0	2	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Falling	294	138	156	15	28	84	83	39	43	0	2	123	151	15	5	6	5	9	0	0	0	1	0	1	0	3	0	2	0	0	0	0	2	0
Miscellaneous	8	5	3	3	1	1	0	1	2	0	0	0	1	5	2	3	2	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Poisoning	406	280	126	158	62	114	56	7	7	1	1	20	14	260	112	175	82	85	30	30	17	16	4	23	3	8	4	3	1	5	0	0	1	
Undetermined	11	7	4	3	2	4	1	0	1	0	0	3	4	4	0	1	0	3	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0
Total	775	461	314	195	102	216	154	49	55	1	3	160	181	301	133	199	100	102	33	34	17	17	4	27	3	11	5	5	2	5	1	3	1	

2018 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

TABLE 13

MODE* - ETHANOL INCIDENCE

												Not Tested		Tested						Stages												
														Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over
Mode	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Asphyxia:																																
Bolus of Food	7	4	3	1	1	3	2	0	0	0	0	1	3	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Compression	3	3	0	0	0	3	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Drowning	2	1	1	0	0	1	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dysphagia	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	
Positional	5	2	3	2	0	0	3	0	0	0	0	1	0	1	3	1	2	0	1	0	0	0	0	0	0	0	0	0	1	0	0	
Suffocation	10	5	5	3	2	2	2	0	1	0	0	0	1	5	4	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Foreign Object	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	29	16	13	7	4	9	8	0	1	0	0	2	4	14	9	13	8	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0
Burning:																																
Fire/Explosion	5	3	2	1	1	0	0	2	1	0	0	3	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0
Heater	2	1	1	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	7	4	3	1	2	1	0	2	1	0	0	4	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0
Carbom Monoxide:																																
Fire	12	9	3	7	1	2	2	0	0	0	0	7	1	2	2	1	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Gas Generator	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Total	13	10	3	8	1	2	2	0	0	0	0	7	1	3	2	1	2	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0
Exposure:																																
Cold	5	1	4	0	2	1	2	0	0	0	0	1	3	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heat	2	0	2	0	0	0	2	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
Total	7	1	6	0	2	1	4	0	0	0	0	1	4	0	2	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0

*Does not include: falls, miscellaneous, poisoning or undetermined deaths.

2018 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

MODE - ETHANOL INCIDENCE

TABLE 14

												Not Tested		Tested						Stages													
																				Total		Cleveland		County		Out of County		Unknown		Total		Negative	
Mode	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Single Chemical Agent:																																	
Acetaminophen	1	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Buprenorphine	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Cocaine	28	20	8	9	5	9	2	1	1	1	0	2	4	18	4	15	2	3	2	1	1	1	1	0	0	1	0	0	0	0	0		
Fentanyl	27	23	4	6	4	14	0	3	0	0	0	3	0	20	4	16	3	4	1	2	1	1	0	0	0	1	0	0	0	0	0		
Fluoxetine	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Heroin	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0		
Phencyclidine	2	1	1	1	0	0	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Propylene Glycol	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sertraline	2	0	2	0	0	0	1	0	1	0	0	0	0	0	2	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0		
Tramadol	1	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Two or More Chemical Agents:																																	
1, 1-difluoroethane, Alfentanil, Cyclopropyl Fentanyl, Fentanyl, Heroin	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
3-Methylenfentanyl, Cocaine	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4-ANPP, Acetyl Fentanyl, Carfentanil, Fentanyl, Heroin	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4-ANPP, benzodiazepines, Cocaine, Cyclopropyl Fentanyl, Methoxyacetylfentanyl, Mitragnine	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4-ANPP, Butyrylfentanyl, Cyclopropyl Fentanyl, Fentanyl, Heroin, Methoxyacetylfentanyl	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4-ANPP, Cocaine, Cyclopropyl Fentanyl, Fentanyl, Heroin	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4-ANPP, Cocaine, Fentanyl, Methoxyacetyl Fentanyl	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4-ANPP, Cyclopropyl Fentanyl, Fentanyl	2	2	0	1	0	1	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4-ANPP, Fentanyl	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Acetyl Fentanyl, Alprazolam, Fentanyl	1	0	1	0	1	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Acetyl Fentanyl, Alprazolam, Fentanyl, Heroin	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Acetyl Fentanyl, amphetamines, Fentanyl, Methamphetamines	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Acetyl Fentanyl, benzodiazepines, Cocaine, Cyclopropyl Fentanyl, Fentanyl	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Acetyl Fentanyl, Beta-Hydroxyfentanyl, Citalopram, Fentanyl, Heroin	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

2018 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

TABLE 14

MODE - ETHANOL INCIDENCE (continued)

												Not Tested		Tested						Stages													
																				Total		Cleveland		County		Out of County		Unknown		Total		Negative	
Mode	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Acetyl Fentanyl, Beta-Hydroxyfentanyl, Cocaine, Fentanyl	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Acetyl Fentanyl, Beta-Hydroxyfentanyl, Cocaine, Fentanyl, Heroin	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Acetyl Fentanyl, Beta-Hydroxyfentanyl, Fentanyl	2	2	0	1	0	1	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Acetyl Fentanyl, Beta-Hydroxyfentanyl, Fentanyl, Heroin	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Acetyl Fentanyl, Beta-Hydroxyfentanyl, Fentanyl, Heroin, Methoxyacetylfentanyl	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Acetyl Fentanyl, Beta-Hydroxyfentanyl, Methoxyacetylfentanyl	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Acetyl Fentanyl, Carfentanil, Cocaine, Cyclopropyl Fentanyl, Fentanyl, Heroin	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Acetyl Fentanyl, Carfentanil, Cocaine, Fentanyl, Heroin	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Acetyl Fentanyl, Carfentanil, Cyclopropyl Fentanyl, Fentanyl, Heroin	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Acetyl Fentanyl, Carfentanil, Diazepam, Fentanyl	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Acetyl Fentanyl, Citalopram, Cocaine, Fentanyl, Heroin	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Acetyl Fentanyl, Clozapine, Eszopiclone, Fentanyl, Methamphetamines, Methoxyacetylfentanyl, Risperidone	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Acetyl Fentanyl, Cocaine, Cyclopropyl Fentanyl, Fentanyl, Methamphetamines, Methoxyacetylfentanyl	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Acetyl Fentanyl, Cocaine, Diazepam, Fentanyl, Primidone, Tapentadol, Zolpidem	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Acetyl Fentanyl, Cocaine, Doxepin, Fentanyl, Gabapentin	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Acetyl Fentanyl, Cocaine, Fentanyl	6	4	2	3	1	1	1	0	0	0	0	0	0	4	2	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Cocaine, Fentanyl, Heroin	6	5	1	3	1	2	0	0	0	0	0	0	0	5	1	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Cocaine, Fentanyl, Methamphetamines	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Cyclobenzaprine, Fentanyl, Gabapentin, Pregabalin	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Cyclopropyl Fentanyl, Fentanyl, Heroin	2	2	0	1	0	1	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Cyclopropyl Fentanyl, Fentanyl, Heroin, Olanzapine	1	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Cyclopropyl Fentanyl, Fentanyl, Heroin, para-Fluoroisobutyrylfentanyl	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Cyclopropyl Fentanyl, Fentanyl, Methoxyacetylfentanyl	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

2018 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

MODE - ETHANOL INCIDENCE (continued)

TABLE 14

												Not Tested		Tested						Stages													
																				Total		Cleveland		County		Out of County		Unknown		Total		Negative	
Mode	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Acetyl Fentanyl, Diphenhydramine, Fentanyl, Gabapentin	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Acetyl Fentanyl, Diphenhydramine, Fentanyl, Heroin	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Acetyl Fentanyl, Diphenhydramine, Fentanyl, Heroin, Oxycodone	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Acetyl Fentanyl, Fentanyl	14	9	5	3	3	6	2	0	0	0	0	1	0	8	5	7	5	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Fentanyl, Heroin	6	4	2	1	0	3	2	0	0	0	0	0	0	4	2	4	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	
Acetyl Fentanyl, Fentanyl, Heroin, Methamphetamines	2	1	1	0	0	1	0	0	1	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Fentanyl, Heroin, Methoxyacetylfentanyl	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Fentanyl, Heroin, Tramadol	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Fentanyl, Hydrocodone	2	1	1	0	0	1	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Fentanyl, Lorazepam	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Fentanyl, Methadone, Tramadol	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Fentanyl, Methoxyacetylfentanyl	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Fentanyl, Oxycodone	3	2	1	2	1	0	0	0	0	0	0	0	0	2	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Fentanyl, Trazodone	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alprazolam, Amitriptyline, Butalbital, Loperamide, Olanzapine, Promethazine, Zolpidem	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alprazolam, amphetamines, Cocaine, Fentanyl	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alprazolam, amphetamines, Fentanyl	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alprazolam, Carfentanyl, Fentanyl, Heroin, Methamphetamines	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alprazolam, Carisoprodol, Cyclobenzaprine, Escitalopram, Metaxalone, Oxycodone, Trazodone, Zolpidem	1	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alprazolam, Carisoprodol, Diphenhydramine, Hydrocodone	1	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alprazolam, Chlorpheniramine, Cocaine, Hydroxyzine, Promethazine, Quetiapine	1	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alprazolam, Cocaine, Diphenhydramine, Fentanyl, Venlafaxine	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	
Alprazolam, Cocaine, Fentanyl	3	3	0	2	0	1	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alprazolam, Cocaine, Fentanyl, Heroin	2	2	0	0	0	2	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

2018 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

TABLE 14

MODE - ETHANOL INCIDENCE (continued)

												Not Tested		Tested						Stages													
														Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Mode	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Alprazolam, Cocaine, Fentanyl, Tramadol	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Alprazolam, Diphenhydramine, Fentanyl	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Alprazolam, Diphenhydramine, Methadone, Pregabalin	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Alprazolam, Fentanyl	2	2	0	1	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Alprazolam, Fentanyl, Heroin	3	2	1	0	0	2	1	0	0	0	0	0	0	2	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Alprazolam, Fentanyl, Oxycodone	2	0	2	0	0	0	1	0	0	0	1	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Alprazolam, Fluoxetine, opiates	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Alprazolam, Gabapentin, Meclizine, Oxycodone	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Amitriptyline, Cocaine, Cyclopropyl Fentanyl, Fentanyl, Methamphetamines, Methoxyacetylfentanyl	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Amitriptyline, Diazepam, Diphenhydramine, Doxepin, Oxycodone, Quetiapine, Topiramine, Tramadol	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Amitriptyline, Fentanyl, Heroin	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphetamines, Benzodiazepiness, Buprenorphine, Carisoprodol, Fentanyl, Heroin	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0		
Amphetamines, Fentanyl, Heroin	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Amphetamine, Cocaine	1	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Benzodiazepines, Carfentanil, Fentanyl, Opiates	1	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Benzodiazepines, Fluoxetine	1	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Benzodiazepiness, Cocaine	2	1	1	1	0	0	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Benzodiazepiness, Cocaine, Fentanyl, Opiates	1	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Benzodiazepiness, Fentanyl	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Beta-Hydroxyfentanyl, Cocaine, Fentanyl	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Beta-Hydroxyfentanyl, Fentanyl	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Beta-Hydroxyfentanyl, Fentanyl, Heroin	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Beta-Hydroxyfentanyl, Fentanyl, Heroin, Methoxyacetylfentanyl	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Beta-Hydroxyfentanyl, Fentanyl, Methoxyacetylfentanyl	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Buprenorphine, Cocaine, Cyclobenzaprine, Fentanyl	1	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

2018 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

MODE - ETHANOL INCIDENCE (continued)

TABLE 14

												Not Tested		Tested						Stages													
																				Total		Cleveland		County		Out of County		Unknown		Total		Negative	
Mode	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Bupropion, Clonidine, Hydroxyzine, Methadone, Quetiapine, Sertraline	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0		
Butyrylfentanyl, Isobutyrylfentanyl, para-Fluoroisobutyrylfentanyl	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Carfentanil, Cocaine, Diazepam	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Carfentanil, Cocaine, Fentanyl, Fentanyl Analogues, Heroin	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Carfentanil, Cocaine, Fentanyl, Heroin, Oxycodone	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Carfentanil, Cocaine, Heroin, Lorazepam, Tramadol	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Carfentanil, Cyclobenzaprine, Cyclopropyl Fentanyl, Diphenhydramine, Fentanyl, Morphine	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0		
Carfentanil, Cyclopropyl Fentanyl, Fentanyl	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Carfentanil, Cyclopropyl Fentanyl, Fentanyl, Heroin	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Carfentanil, Diphenhydramine, Fentanyl, Heroin, Pregabalin	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Carfentanil, Fentanyl, Methoxyacetylfentanyl	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Carfentanil, Fentanyl, Morphine, Oxycodone	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Citalopram, Hydrocodone, Mirtazapine	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Clonazepam, Morphine, Oxycodone	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0		
Cocaethylene, Cocaine, Oxycodone	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Cocaine, Benzodiazepiness, Opiatess	1	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Cocaine, Cyclopropyl Fentanyl, Fentanyl	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Cocaine, Cyclopropyl Fentanyl, Fentanyl, Heroin	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Cocaine, Cyclopropyl Fentanyl, Fentanyl, Methoxyacetylfentanyl	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Cocaine, Diazepam, Fentanyl, Heroin	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Cocaine, Diphenhydramine, Fentanyl	2	1	1	0	1	1	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Cocaine, Diphenhydramine, Fentanyl, Fentanyl Analogues, Heroin	1	1	0	1	0	0	0	0	0	0	0	0	0	1	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Cocaine, Diphenhydramine, Fentanyl, Morphine, Sertraline	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0		
Cocaine, Doxepin, Fentanyl, Lorazepam, Mirtazapine	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0		
Cocaine, Fentanyl	20	14	6	11	4	3	2	0	0	0	0	3	0	11	0	9	6	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	
Cocaine, Fentanyl, Heroin	11	9	2	5	1	4	1	0	0	0	0	0	0	9	2	9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cocaine, Fentanyl, Heroin, Gabapentin	1	0	1	0	0	0	1	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cocaine, Fentanyl, Heroin, Methoxyacetylfentanyl	2	1	1	1	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

2018 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

TABLE 14

MODE - ETHANOL INCIDENCE (continued)

												Not Tested		Tested						Stages															
																				Total		Cleveland		County		Out of County		Unknown		Total		Negative		Positive	
Mode	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
Cocaine, Fentanyl, Heroin, Tramadol, Phenobarbital	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Cocaine, Fentanyl, Methamphetamines	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Cocaine, Fentanyl, Morphine	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Cocaine, Methamphetamines	2	2	0	0	0	1	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Cocaine, Norfentanyl	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Cocaine, Opiates	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Cocaine, Phencyclidine	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0				
Cyclobenzaprine, Doxepin, Oxycodone, Venlafaxine	1	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Cyclobenzaprine, Fentanyl	1	1	0	1	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Cyclopropyl Fentanyl, Diazepam, Fentanyl, Trazodone	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Cyclopropyl Fentanyl, Fentanyl	2	2	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Cyclopropyl Fentanyl, Fentanyl, Heroin	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Cyclopropyl Fentanyl, Fentanyl, Methamphetamines, Methoxyacetylfentanyl	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Cyclopropyl Fentanyl, Fentanyl, Methoxyacetylfentanyl	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Cyclopropyl Fentanyl, Heroin	2	2	0	1	0	1	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Despropionyl Fentanyl, Fentanyl, Methamphetamines, Methoxyacetylfentanyl	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Dextromethorphan, Diazepam, Diphenhydramine, Doxylamine, Fentanyl, Heroin, Mirtazapine	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Diazepam, Fentanyl, Fluoroisobutaryl Fentanyl	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Diazepam, Fentanyl, Pregabalin, Quetiapine	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Diazepam, Hydrocodone	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Diphenhydramine, Fentanyl, Methamphetamines	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Doxepin, Fentanyl, Lamotrigine	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Fentanyl, Gabapentin	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Fentanyl, Heroin	15	12	3	7	3	5	0	0	0	0	0	0	0	12	3	12	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Fentanyl, Heroin, Hydrocodone, Mirtazapine	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0				

2018 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

MODE - ETHANOL INCIDENCE (continued)

TABLE 14

												Not Tested		Tested						Stages											
																				Total		Cleveland		County		Out of County		Unknown		Total	
Mode	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Fentanyl, Heroin, Methamphetamines	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fentanyl, Heroin, Methoxyacetylfentanyl	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fentanyl, Heroin, Oxycodone	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fentanyl, Heroin, Tramadol, Sertraline, Mirtazapine	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fentanyl, Heroin, Trazodone	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fentanyl, Lorazepam	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fentanyl, Methamphetamines	2	2	0	1	0	1	0	0	0	0	0	0	0	2	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
Fentanyl, Methoxyacetylfentanyl	2	2	0	1	0	1	0	0	0	0	0	0	0	2	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
Fentanyl, Midazolam	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fentanyl, Morphine	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fentanyl, Morphine, Promethazine	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
Fentanyl, Oxycodone, Tramadol	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fentanyl, Oxycodone, Trazodone	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fentanyl, Phenobarbital, Tramadol	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fentanyl, Tramadol	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fluoxetine, Heroin	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heroin, Methamphetamines	2	2	0	0	0	2	0	0	0	0	0	0	0	2	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
Hydroxyzine, Phencyclidine, Venlafaxine	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mirtazapine, Topiramate	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combined Effects of Ethanol & Single/Multiple Chemical Agents:																															
2-Furanyl Fentanyl, Alprazolam, Cocaine, Diphenhydramine, Fentanyl	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
2-Furanyl Fentanyl, Cocaine, Fentanyl	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
3-Methylfentanyl, Cyclopropyl Fentanyl, Methoxyacetylfentanyl	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0
5-fluoro-MDMB-PICA, 5-fluoro-MDMB-PINACA/5-fluoro-EMB-PINACA	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
Acetyl Fentanyl, Alprazolam, Cocaine, Fentanyl	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0

2018 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

TABLE 14

MODE - ETHANOL INCIDENCE (continued)

												Not Tested		Tested						Stages															
														Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over			
Mode	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
Acetyl Fentanyl, Buprenorphine, Fentanyl	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0			
Acetyl Fentanyl, Cocaine, Diazepam, Fentanyl, Heroin, Sertraline	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0			
Acetyl Fentanyl, Cocaine, Fentanyl	3	1	2	0	2	1	0	0	0	0	0	0	0	1	2	0	0	1	2	0	1	0	0	1	1	0	0	0	0	0	0	0			
Acetyl Fentanyl, Cocaine, Fentanyl, Heroin	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0			
Acetyl Fentanyl, Cocaine, Fentanyl, Methamphetamines	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0			
Acetyl Fentanyl, Diphenhydramine, Fentanyl, Methoxyacetylfentanyl	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0			
Acetyl Fentanyl, Fentanyl	3	2	1	2	0	0	1	0	0	0	0	0	0	2	1	0	0	2	1	0	0	2	1	0	0	0	0	0	0	0	0	0	0		
Acetyl Fentanyl, Fentanyl, Gabapentin	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0			
Acetyl Fentanyl, Fentanyl, Heroin	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0			
Acetyl Fentanyl, Fentanyl, Trazodone	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0			
Alprazolam, Diphenhydramine	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Alprazolam, Fentanyl	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Alprazolam, Fentanyl, Heroin	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Alprazolam, Fentanyl, Hydrocodone, Oxycodone	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Bupropion, Cocaine, Fentanyl, Gabapentin, Heroin, Oxycodone, Trazodone	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0		

2018 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

MODE - ETHANOL INCIDENCE (continued)

TABLE 14

												Not Tested		Tested						Stages															
														Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over			
Mode	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
Carfentanil	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0				
Carfentanil, Cocaine, Lamotrigine	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0				
Carfentanil, Cocaine, Methoxy-acetylfentanyl	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0				
Carfentanil, Fentanyl	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0				
Cocaine	14	11	3	10	2	1	1	0	0	0	0	1	0	10	3	0	0	10	3	4	1	1	1	4	1	0	0	0	0	1	0	0	0		
Cocaine, Doxepin, Hydroxyzine, Mirtazapine	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0			
Cocaine, Fentanyl	10	8	2	4	0	4	2	0	0	0	0	1	1	7	1	1	1	6	0	2	0	1	0	2	0	1	0	0	0	0	0	0	0		
Cocaine, Fentanyl, Gabapentin	2	2	0	1	0	1	0	0	0	0	0	0	0	2	0	0	0	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0			
Cocaine, Fentanyl, Heroin	4	4	0	3	0	1	0	0	0	0	0	0	0	4	0	0	0	4	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0		
Cocaine, Fentanyl, Lorazepam	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cocaine, Fentanyl, Oxycodone	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Cocaine, Heroin	2	1	1	0	1	1	0	0	0	0	0	0	0	1	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cyclobenzaprine, Diphenhydr-amine	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Cyclobenzaprine, Mirtazapine, Sertraline	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0		
Cyclopropyl Fentanyl, Fentanyl, Morphine	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0		

2018 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

TABLE 14

MODE - ETHANOL INCIDENCE (continued)

												Not Tested		Tested						Stages													
														Total		Cleveland		County		Out of County		Un-known		Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%	
Mode	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Diphenhydramine, Fentanyl, Fentanyl Analogs, Heroin, Methamphetamines	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0		
Diphenhydramine, Fentanyl, Gabapentin, Heroin	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0		
Fentanyl	12	7	5	5	2	2	3	0	0	0	0	0	0	7	5	0	0	7	5	1	2	0	0	2	0	3	1	0	1	1	0	0	1
Fentanyl, Heroin	4	4	0	4	0	0	0	0	0	0	0	0	0	4	0	0	0	4	0	1	0	0	0	2	0	0	0	0	0	1	0	0	0
Fentanyl, Heroin, Methoxy-acetylfentanyl, Zolpidem	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	
Fentanyl, Methamphetamines	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
Fentanyl, Sertraline	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
Heroin	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
para-Fluoroisobutyrylfentanyl	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
Total	406	280	126	158	62	114	56	4	7	1	1	20	14	260	112	175	82	85	30	30	14	16	4	23	6	8	4	3	1	5	0	0	1

2018 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

MODE - AGE GROUPS

TABLE 15

Mode	< Than 1		1-4		5-9		10-14		15-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80 and Over		Total		Grand Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
Asphyxia	6	5	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	2	0	2	2	2	1	0	1	1	2	2	1	16	13	29
Burning	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	1	1	4	3	7	
Carbon Monoxide	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	3	0	0	0	0	0	0	1	0	1	0	1	0	1	2	10	3	13	
Exposure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	3	1	6	7	
Falling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	1	0	4	2	6	4	7	5	9	5	17	10	15	14	76	116	138	156	294
Miscellaneous	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	2	0	1	0	0	1	0	1	0	0	0	1	0	0	0	0	5	3	8
Poisoning	0	0	0	0	0	0	0	0	1	2	11	5	28	15	34	16	37	18	27	13	23	12	25	13	38	13	32	11	18	5	4	0	2	0	0	3	280	126	406
Undetermined	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	1	0	0	0	1	0	2	4	7	4	11
Total	6	5	1	0	0	1	0	0	1	2	12	6	29	15	36	17	39	18	31	13	29	13	30	15	48	18	42	19	31	13	22	12	22	17	82	130	461	314	775

2018 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

TABLE 16

FALLS - ETHANOL INCIDENCE

				Not Tested		Tested						Stages													
						Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Falls by Type	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Fall On or From Stairs or Steps	38	27	11	21	10	6	1	2	1	4	0	0	0	0	1	0	1	0	1	0	0	0	1	0	
Fall From Ladder or Scaffolding	2	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Fall From One Level to Another	15	7	8	7	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Fall On Same Level	223	92	131	87	128	5	3	2	3	3	0	0	0	0	0	0	2	0	0	0	0	0	1	0	
Other and Unspecified Fall	16	10	6	6	5	4	1	2	1	2	0	0	0	1	0	0	0	0	1	0	0	0	0	0	
Total	294	138	156	123	151	15	5	6	5	9	0	0	0	1	0	1	0	3	0	2	0	0	2	0	

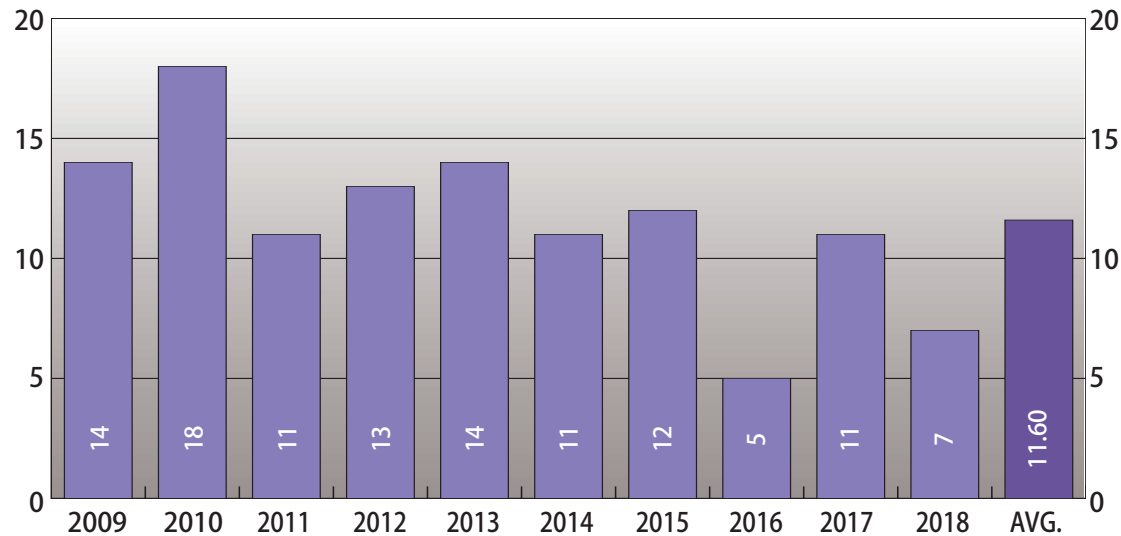
2018 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

FALLS - AGE GROUPS

TABLE 17

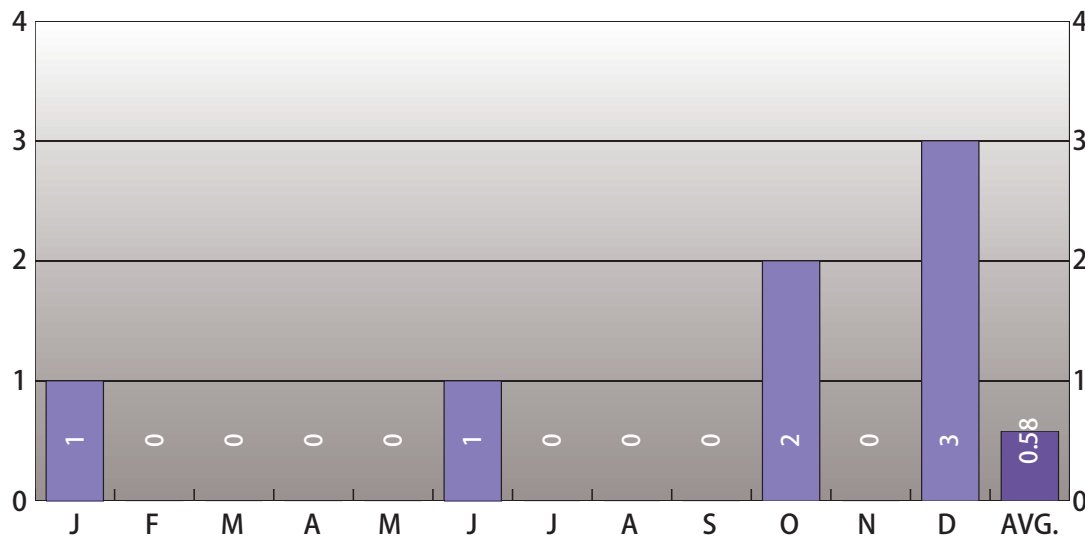
Falls by Type	< Than 1		1-4		5-9		10-14		15-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80 and Over		Total		Grand Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
Fall From One Level to Another	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	0	4	0	3	2	1	1	2	2	3	3	10	3	38	27	65
Fall On or From Ladder or Scaffolding	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2	2	4
Fall On or From Stairs or Steps	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	3	1	2	6	15	7	22
Fall On Same Level	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	1	3	2	3	5	4	11	7	9	10	62	102	223	92	315
Other and Unspecified Fall	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	2	0	3	1	0	0	2	5	16	10	26	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	1	0	4	2	6	4	7	5	9	5	17	10	15	14	76	116	294	138	432

2018 FATALITIES RESULTING FROM ACCIDENTS WHILE AT WORK FOR A PERIOD OF TEN YEARS



2018
TOTAL CASES
7

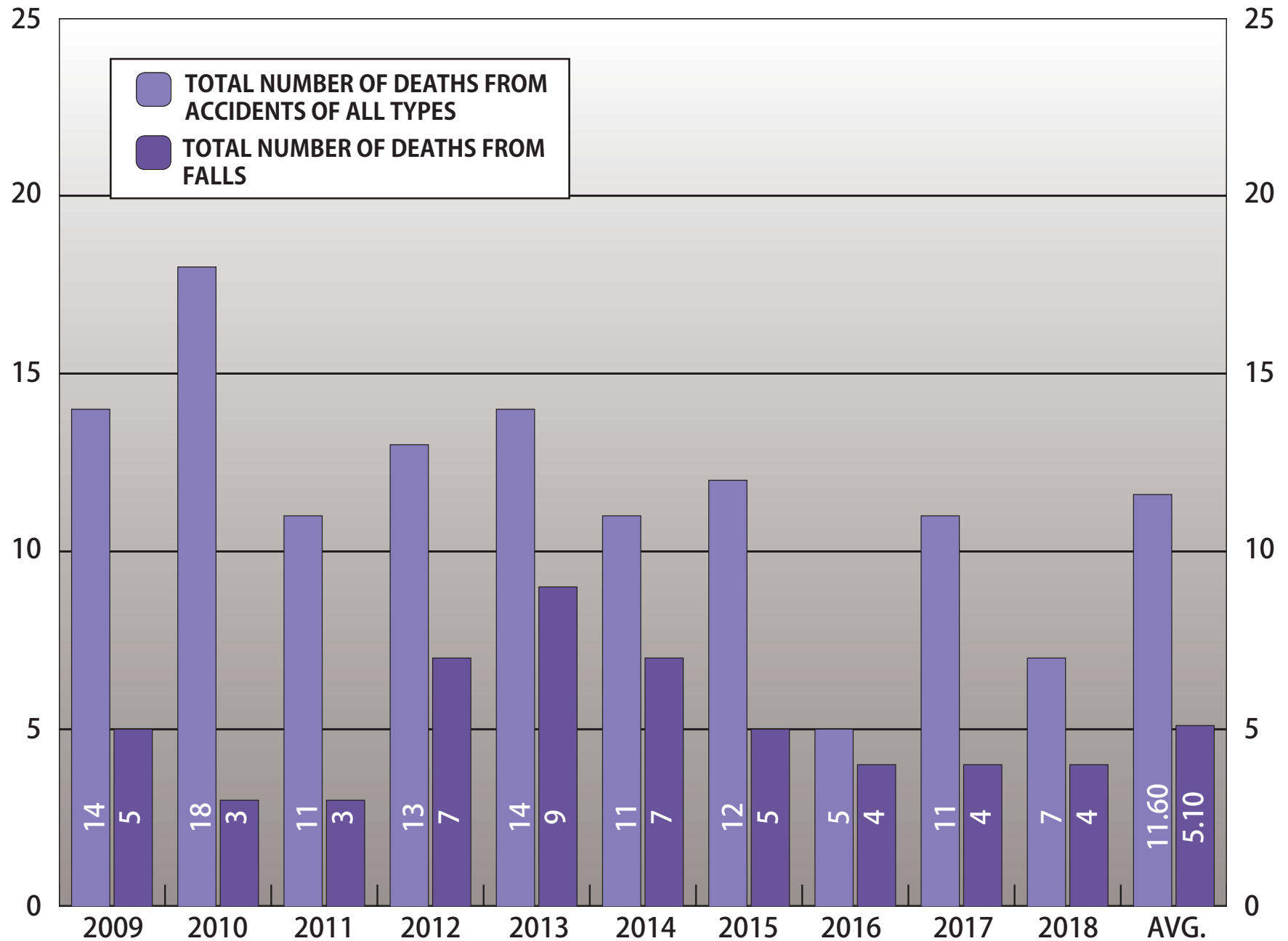
2018 FATALITIES RESULTING FROM ACCIDENTS WHILE AT WORK BY MONTH FOR THE YEAR 2018



		Number	Percent
Gender	Male	7	100.00
	Female	0	0.00
Race	White	6	85.71
	Black	1	14.29
Ethnicity	Hispanic	0	0.00
	Non-Hispanic	7	100.00
Ethanol	Tested	4	57.14
	Positive	0	0.00
Autopsied		2	28.57

2018 FATALITIES RESULTING FROM ACCIDENTS WHILE AT WORK

DEATHS RESULTING FROM ACCIDENTS AND ACCIDENTAL FALLS WHILE AT WORK FOR A PERIOD OF TEN YEARS



2018 FATALITIES RESULTING FROM ACCIDENTS WHILE AT WORK

TABLE 18

MONTHLY ETHANOL INCIDENCE

												Not Tested		Tested						Stages													
														Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Month	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Jan.	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Feb.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Mar.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Apr.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Jun.	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
July	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aug.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sept.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Oct.	2	2	0	2	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Nov.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Dec.	3	3	0	1	0	1	0	1	0	0	0	1	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total	7	7	0	3	0	2	0	2	0	0	0	3	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

2018 FATALITIES RESULTING FROM ACCIDENTS WHILE AT WORK

AGE - RACE - ETHNICITY - ETHANOL INCIDENCE

TABLE 19

					Not Tested		Tested						Stages													
							Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Age	Race	Total	Hispanic	Non-Hispanic	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
13 and Under	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 - 17	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 - 19	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 - 24	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 - 29	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 - 34	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 - 39	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 - 44	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 - 49	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 - 54	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 - 59	White	3	0	3	1	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60 - 64	White	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65 - 69	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 and Over	White	2	0	2	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	White	6	0	6	3	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total		7	0	7	3	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

2018 FATALITIES RESULTING FROM ACCIDENTS WHILE AT WORK

TABLE 20

MODE - ETHANOL INCIDENCE

												Not Tested		Tested						Stages													
														Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Mode	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Falling: Fall From Ladder or Scaffolding	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Fall From One Level to Another	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Fall From or Out of Building or Other Structure	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Fall On Same Level	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Others: Crushing, Truck-Loading Dock	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Poisoning, Cocaine	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Struck Object, Steel	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total	7	7	0	3	0	2	0	2	0	0	0	3	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

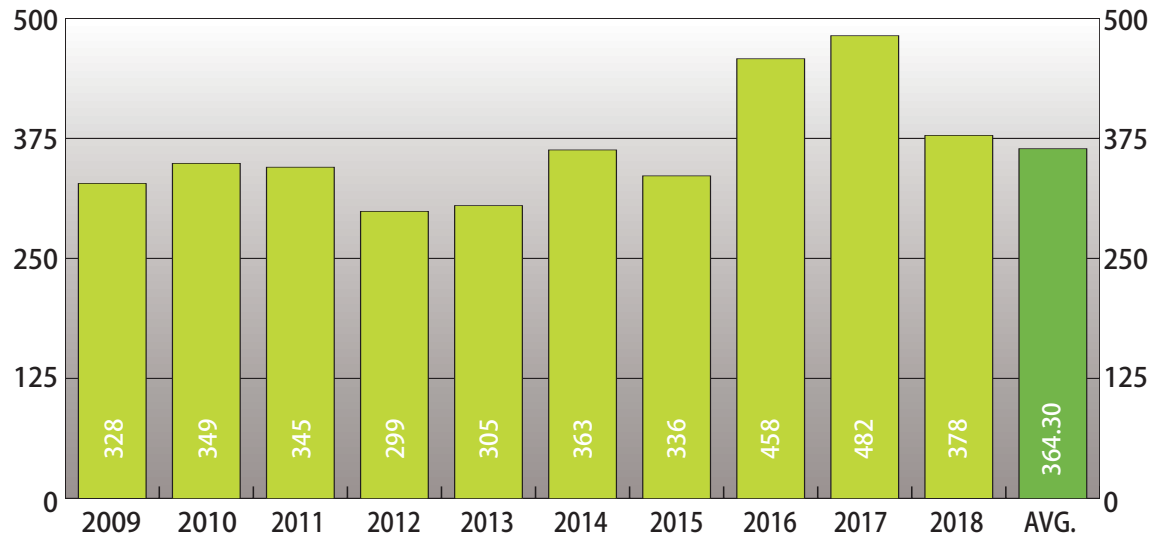
2018 FATALITIES RESULTING FROM ACCIDENTS WHILE AT WORK

MODE - AGE GROUPS

TABLE 21

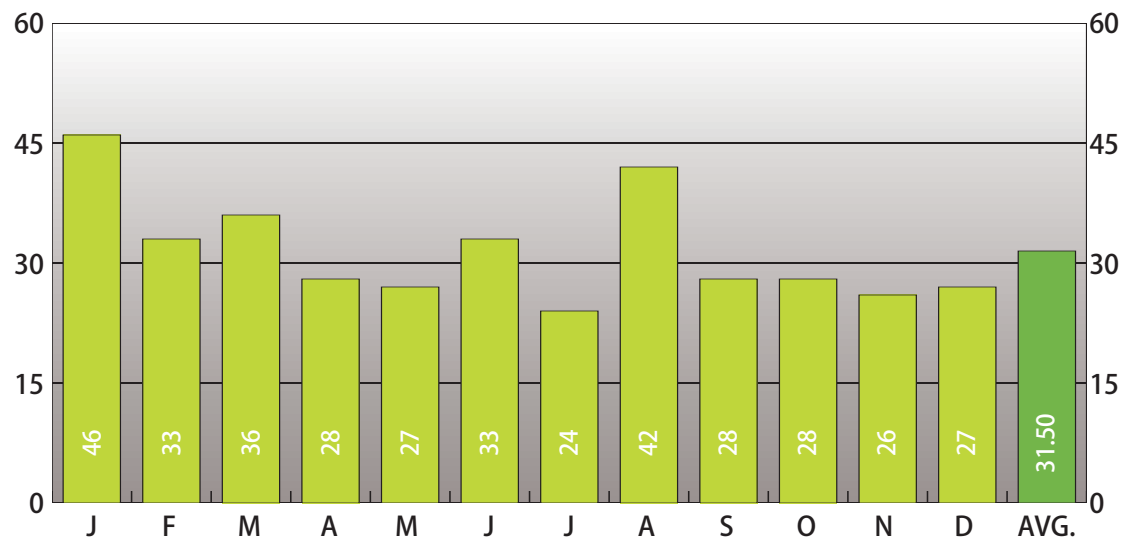
Mode	13 and Under		14-17		18-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70 and Over		Total		Grand Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Falling: Fall From Ladder or Scaffolding	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1
Fall From One Level to Another	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	
Fall From or Out of Building or Other Structure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1
Fall On Same Level	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1
Others: Crushing, Truck-Loading Dock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	
Poisoning, Cocaine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1
Struck Object, Steel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	2	0	0	0	2	0	7	0	7	

2018 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES FOR A PERIOD OF TEN YEARS



2018
TOTAL CASES
378

2018 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES BY MONTH FOR THE YEAR 2018

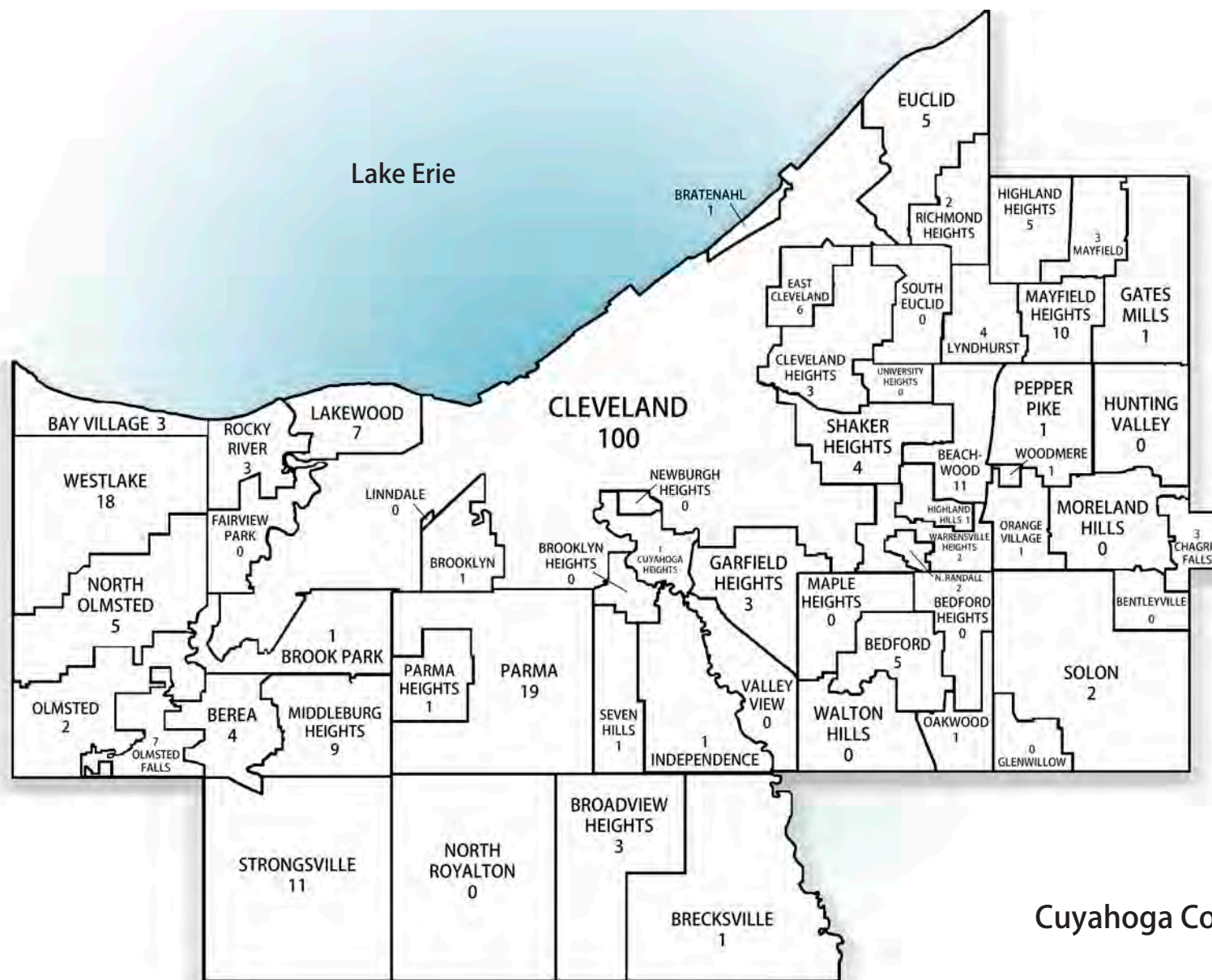


		Number	Percent
Gender	Male	203	0.54
	Female	175	0.46
Race	White	306	0.81
	Black	68	0.18
	Asian	1	0.00
	Asian Indian	2	0.01
	Unknown	1	0.00
Ethnicity	Hispanic	10	0.03
	Non-Hispanic	368	0.97
Ethanol	Tested	142	0.38
	Positive	41	0.11
Autopsied		132	0.35

2018 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

DISTRIBUTION OF FATALITIES FROM ACCIDENTS IN OTHER PLACES BY CITY*

MAP 3



Cuyahoga County, Ohio

*Injury location is unknown for 64 cases and 39 cases are from outside of Cuyahoga County.

2018 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

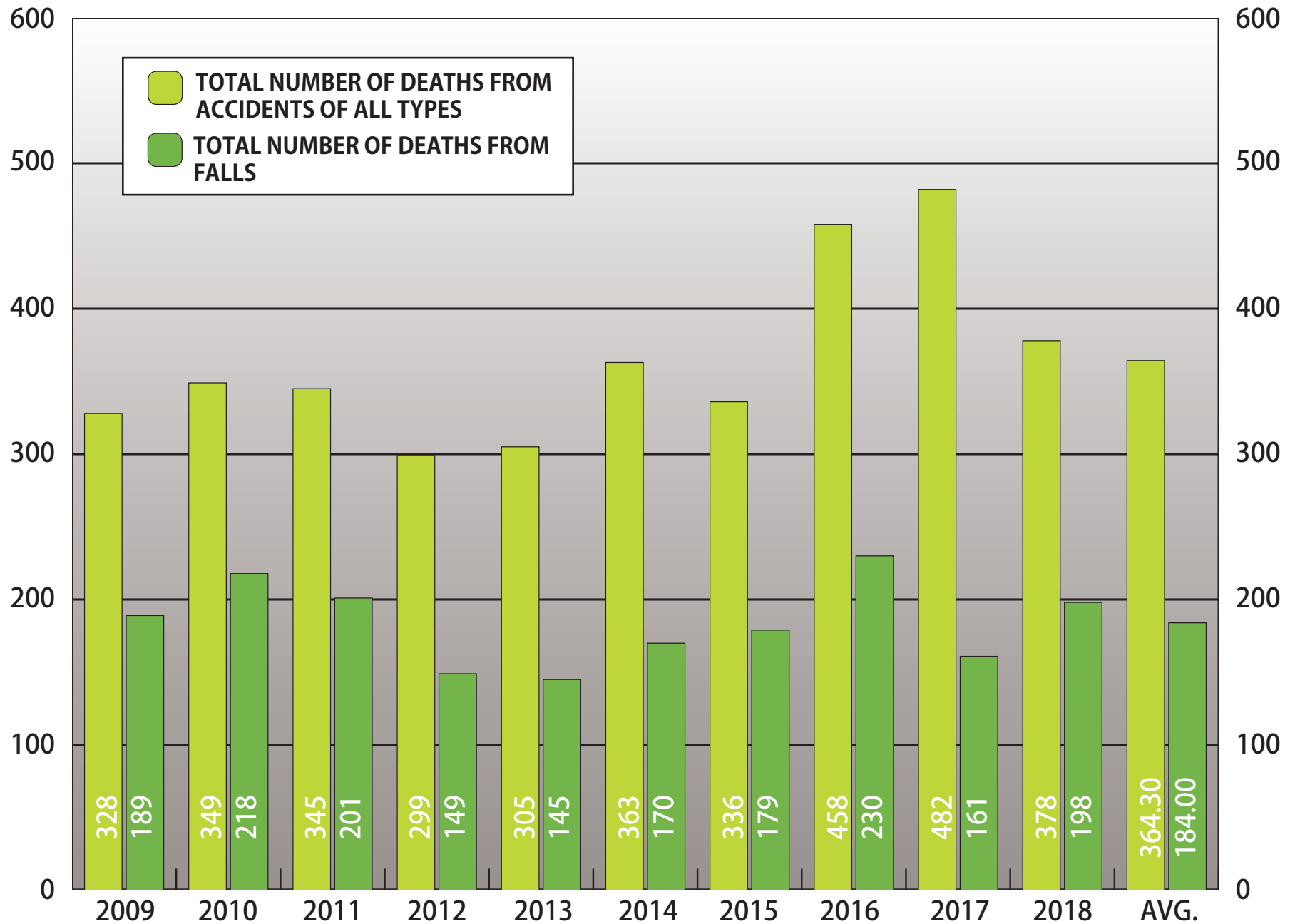
MAP 3

DISTRIBUTION OF FATALITIES FROM ACCIDENTS IN OTHER PLACES BY CITY* (continued)

Cities			
Cleveland	100	Maple Heights	0
Bay Village	3	Mayfield Heights	10
Beachwood	11	Middleburg Heights	9
Bedford	5	North Olmsted	5
Bedford Heights	0	North Royalton	0
Berea	4	Olmsted Falls	7
Brecksville	1	Parma	19
Broadview Heights	3	Parma Heights	1
Brooklyn	1	Pepper Pike	1
Brook Park	1	Richmond Heights	2
Cleveland Heights	3	Rocky River	3
East Cleveland	6	Seven Hills	1
Euclid	5	Shaker Heights	4
Fairview Park	0	Solon	2
Garfield Heights	3	South Euclid	0
Highland Heights	5	Strongsville	11
Independence	1	University Heights	0
Lakewood	7	Warrensville Heights	2
Lyndhurst	4	Westlake	18
Villages			
Bentleyville	0	Mayfield Village	3
Bratenahl	1	Moreland Hills	0
Brooklyn Heights	0	Newburgh Heights	0
Cuyahoga Heights	1	North Randall	2
Gates Mills	1	Oakwood Village	1
Glenwillow	0	Orange Village	1
Highland Hills	1	Valley View	0
Hunting Valley	0	Walton Hills	0
Linndale	0	Woodmere	1
Townships			
Chagrin Falls	3	Olmsted Township	2

2018 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

DEATHS RESULTING FROM ACCIDENTS AND ACCIDENTAL FALLS IN OTHER PLACES FOR A PERIOD OF TEN YEARS



2018 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

TABLE 22

MONTHLY ETHANOL INCIDENCE

												Not Tested		Tested						Stages													
														Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Month	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Jan.	46	26	20	4	3	10	14	4	1	8	2	14	17	12	3	9	2	3	1	1	0	1	0	0	0	1	0	0	0	0	0	0	
Feb.	33	18	15	8	4	7	8	1	1	2	2	12	10	6	5	2	4	4	1	2	1	1	0	1	0	0	0	0	0	0	0	0	
Mar.	36	19	17	5	4	7	8	3	1	4	4	9	16	10	1	8	1	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	
Apr.	28	17	11	5	3	9	5	0	2	3	1	11	9	6	2	5	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
May	27	15	12	7	1	4	9	2	0	2	2	7	10	8	2	5	1	3	1	1	0	0	0	1	0	0	0	1	0	0	0	0	
Jun.	33	20	13	6	1	10	8	2	2	2	2	9	9	11	4	8	4	3	0	2	0	0	0	1	0	0	0	0	0	0	0	0	
July	24	15	9	4	4	7	4	1	0	3	1	5	6	10	3	6	3	4	0	2	0	1	0	0	0	0	0	0	0	1	0	0	
Aug.	42	18	24	5	6	9	14	3	3	1	1	9	19	9	5	6	4	3	1	2	0	1	0	0	1	0	0	0	0	0	0	0	
Sept.	28	15	13	3	2	7	5	2	1	3	5	11	11	4	2	2	1	2	1	1	1	0	0	0	0	0	0	1	0	0	0	0	
Oct.	28	14	14	5	2	4	10	2	0	3	2	7	9	7	5	5	4	2	1	0	0	0	1	1	0	0	0	0	0	1	0	0	
Nov.	26	13	13	3	3	4	4	1	4	5	1	2	9	11	4	9	4	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	
Dec.	27	13	14	7	4	3	5	1	2	2	3	4	11	9	3	4	2	5	1	2	0	1	0	0	1	1	0	0	0	0	0	1	0
Total	378	203	175	62	37	81	94	22	17	38	26	100	136	103	39	69	32	34	7	17	2	6	1	4	2	2	0	2	0	2	0	1	0

2018 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

AGE - RACE - ETHNICITY - ETHANOL INCIDENCE

TABLE 23

Age	Race	Total	Ethnicity		Not Tested		Tested						Stages													
							Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
			Hispanic	Non-Hispanic	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Under 1 Year	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 - 4	White	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 - 9	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 - 14	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	3	0	3	0	0	3	0	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

2018 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

TABLE 23

AGE - RACE - ETHNICITY - ETHANOL INCIDENCE (continued)

					Not Tested		Tested						Stages													
							Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Age	Race	Total	Ethnicity		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
15 - 19	White	3	0	3	0	0	2	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 - 24	White	4	0	4	0	0	1	3	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	2	0	2	0	0	0	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 - 29	White	12	1	11	1	0	10	1	8	0	2	1	1	0	0	1	0	0	0	0	0	0	1	0	0	0
	Black	8	0	8	0	0	4	4	1	3	3	1	1	1	0	0	2	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 - 34	White	18	0	18	2	0	12	4	7	4	5	0	3	0	0	0	1	0	0	0	1	0	0	0	0	0
	Black	4	1	3	0	0	4	0	3	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

2018 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

AGE - RACE - ETHNICITY - ETHANOL INCIDENCE (continued)

TABLE 23

Age	Race	Total	Ethnicity		Not Tested		Tested						Stages													
							Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
			Hispanic	Non-Hispanic	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
35 - 39	White	14	2	12	1	3	8	2	6	2	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
	Black	3	1	2	1	0	1	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 - 44	White	9	0	9	1	2	6	0	4	0	2	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
	Black	5	0	5	0	0	1	4	0	2	1	2	0	0	1	0	0	2	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 - 49	White	17	1	16	2	1	10	4	9	4	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Black	4	1	3	0	1	3	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 - 54	White	14	0	14	2	1	5	6	5	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Black	5	0	5	1	0	4	0	1	0	3	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0
	Asian	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

2018 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

TABLE 23

AGE - RACE - ETHNICITY - ETHANOL INCIDENCE (continued)

Age	Race	Total	Ethnicity		Not Tested		Tested						Stages													
							Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
			Hispanic	Non-Hispanic	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
55 - 59	White	16	0	16	5	3	6	2	3	2	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	6	0	6	0	3	2	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60 - 64	White	13	0	13	3	3	6	1	4	1	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	10	0	10	3	0	7	0	2	0	5	0	2	0	1	0	0	0	2	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65 - 69	White	8	0	8	2	4	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	2	0	2	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 - 74	White	13	0	13	11	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	4	0	4	1	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

2018 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

AGE - RACE - ETHNICITY - ETHANOL INCIDENCE (continued)

TABLE 23

Age	Race	Total	Ethnicity		Not Tested		Tested						Stages													
							Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
			Hispanic	Non-Hispanic	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
75 - 79	White	17	1	16	9	5	2	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 and Over	White	147	2	145	50	95	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	10	0	10	2	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unknown	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	White	306	7	299	89	119	71	27	54	25	17	2	10	0	3	1	1	0	0	0	2	0	1	0	0	1
	Black	68	3	65	9	16	31	12	14	7	17	5	7	2	3	0	3	2	2	0	0	0	1	0	1	1
	Asian	1	0	1	1	0	0	0	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	2	0	2	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unknown	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total		378	10	368	100	136	103	39	69	32	34	7	17	2	6	1	4	2	2	0	2	0	2	0	1	2

2018 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

TABLE 24

MODE - ETHANOL INCIDENCE

												Not Tested		Tested								Stages															
														Total				Negative				Positive				0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%	
Total		Cleveland		County		Out of County		Unknown																													
Mode	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F						
Asphyxia	23	19	4	5	0	10	2	4	0	0	2	5	3	14	1	10	1	4	0	2	0	0	0	1	0	0	0	0	0	1	0	0	0				
Exposure	3	2	1	1	1	1	0	0	0	0	0	0	0	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Falling	198	84	114	12	14	43	77	16	13	13	10	76	111	8	3	5	3	3	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0				
Miscellaneous	13	5	8	2	4	1	4	1	0	1	0	4	3	1	5	0	3	1	2	0	0	1	0	0	1	0	0	0	0	0	0	0	1				
Poisoning	128	89	39	42	17	24	7	1	3	22	11	11	10	78	29	53	24	25	5	15	2	4	1	3	1	1	0	2	0	0	0	0	1				
Undetermined	13	4	9	0	1	2	4	0	1	2	3	4	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Total	378	203	175	62	37	81	94	22	17	38	26	100	136	103	39	69	32	34	7	17	2	6	1	4	2	2	0	2	0	2	0	1	2				

2018 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

MODE* - ETHANOL INCIDENCE

TABLE 25

												Not Tested		Tested						Stages													
														Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Mode	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Asphyxia: Bolus of Food	6	3	3	0	0	3	2	0	0	0	1	3	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Drowning	14	14	0	5	0	6	0	3	0	0	0	1	0	13	0	9	0	4	0	2	0	0	0	1	0	0	0	0	0	1	0	0	0
Dysphagia	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Positional	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Suffocation	1	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	23	19	4	5	0	10	2	4	0	0	2	5	3	14	1	10	1	4	0	2	0	0	0	1	0	0	0	0	0	1	0	0	0
Exposure:																																	
Cold	2	1	1	1	1	0	0	0	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
Heat	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	3	2	1	1	1	1	0	0	0	0	0	0	0	2	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	

*Does not include: falls, miscellaneous, poisoning or undetermined deaths.

2018 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

TABLE 26

MODE* - ETHANOL INCIDENCE

												Not Tested		Tested						Stages											
														Total		Cleveland		County		Out of County		Unknown		Total		Negative		Positive		0.01% - 0.04%	
Mode	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Single Chemical Agent: Cocaine	23	15	8	6	1	3	0	0	2	6	5	3	4	12	4	9	4	3	0	2	0	1	0	0	0	0	0	0	0	0	0
Fentanyl	7	6	1	3	0	1	0	0	0	2	1	0	0	6	1	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
Heroin	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetaminophen	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
Carfentanil	2	2	0	1	0	1	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Methamphetamines	3	2	1	1	0	1	0	0	1	0	0	0	0	2	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bupropion	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Morphine	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
Unspecified Drug	2	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
Two or More Chemical Agents: 3-MethyleneoxyMethamphetamines, Cocaine, Fentanyl, Heroin	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4-ANPP, Acetyl Fentanyl, Cyclopropyl Fentanyl, Diphenhydramine, Fentanyl, para-Fluoroisobutyrylfentanyl	2	1	1	0	1	1	0	0	0	0	0	0	0	1	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	
4-ANPP, Cyclopropyl Fentanyl, Methoxyacetylfentanyl	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4-ANPP, Fentanyl	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Alprazolam, Cocaine, Fentanyl, Heroin	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Buprenorphine, Fentanyl, Gabapentin, Mirtazapine, Sertraline	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Cocaine, Cyclopropyl Fentanyl, Fentanyl	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Cocaine, Fentanyl	3	3	0	1	0	1	0	0	0	1	0	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Cocaine, Fentanyl, Heroin	2	1	1	1	1	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Cocaine, Fentanyl, Methamphetamines, Oxycodone	1	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Cocaine, Heroin, Methoxyacetylfentanyl	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Cyclopropyl Fentanyl, Fentanyl	1	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Fentanyl	5	5	0	2	0	2	0	0	0	1	0	2	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acetyl Fentanyl, Fentanyl, Gabapentin, Heroin, Methamphetamines	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Fentanyl, Heroin	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acetyl Fentanyl, Fentanyl, Heroin, Sertraline	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alprazolam, Cocaine, Opiates	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alprazolam, Cyclopropyl Fentanyl, Fentanyl	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alprazolam, Fentanyl	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Amphetamines, Benzodiazepines, Fentanyl, Hydrocodone	1	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Amphetamine, Cocaine	1	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

2018 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

MODE* - ETHANOL INCIDENCE (continued)

TABLE 26

												Not Tested		Tested						Stages													
																				Total		Cleveland		County		Out of County		Unknown		Total		Negative	
Mode	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Barbiturates, Cocaine	1	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Benzodiazepines, Cocaine, Fentanyl, Tramadol	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beta-Hydroxyfentanyl, Fentanyl, Pregabalin, Topiramate, Tramadol	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cocaine, Diphenhydramine, Fentanyl, Heroin	1	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cocaine, Fentanyl	8	5	3	3	3	1	0	0	0	1	0	0	2	5	1	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cocaine, Fentanyl, Heroin	4	4	0	3	0	1	0	0	0	0	0	0	0	4	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cocaine, Fentanyl, Heroin, Methamphetamines, Phencyclidine	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cocaine, Fentanyl, Morphine	1	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cocaine, Heroin	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cocaine, Methamphetamines	1	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyclopropyl Fentanyl, Fentanyl, Gabapentin, Trazodone	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyclopropyl Fentanyl, Fentanyl, Heroin	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diphenhydramine, Fentanyl	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diphenhydramine, Heroin	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Fentanyl, Fentanyl Analogues, Opioids	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fentanyl, Heroin	5	5	0	2	0	2	0	0	0	1	0	1	0	4	0	2	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Fentanyl, Heroin, Methamphetamines	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Fentanyl, Heroin, Methoxyacetylfentanyl, Tramadol	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Fentanyl, Trazodone	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heroin, Phencyclidine	1	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combined Effects of Ethanol & Single/Multiple Chemical Agents: 4-ANPP, Cocaine, Fentanyl, Heroin	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Acetyl Fentanyl, Alprazolam, Cocaine, Fentanyl, Heroin	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Acetyl Fentanyl, Carfentanil, Fentanyl, Morphine	1	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Acetyl Fentanyl, Cocaine, Fentanyl	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Acetyl Fentanyl, Fentanyl, Heroin	1	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Acetyl Fentanyl, Fentanyl, Mitragnine	1	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Amitriptyline, Clonidine, Diazepam, Zolpidem	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
cis-3-Methylfentanyl, Fentanyl	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Cocaethylene, Cocaine, Fentanyl	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

2018 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

TABLE 26

MODE* - ETHANOL INCIDENCE (continued)

												Not Tested		Tested						Stages															
																				Total		Cleveland		County		Out of County		Unknown		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%	
Mode	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F						
Cocaine	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0						
Cocaine, Fentanyl	7	7	0	6	0	0	0	0	0	1	0	0	0	7	0	0	0	7	0	4	0	1	0	1	0	0	0	1	0	0	0	0			
Cocaine, Fentanyl, Heroin	2	2	0	1	0	0	0	0	0	1	0	0	0	2	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0				
Cocaine, Fentanyl, Methamphetamines	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0				
Cocaine, Heroin, Methoxyacetyl fentany l	1	1	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0				
Cocaine, Opiates	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Fentanyl	1	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0				
Fentanyl, Heroin, Methoxyacetyl fentany l	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Total	128	89	39	42	17	24	7	1	3	22	11	11	10	78	29	53	24	25	5	15	2	4	1	3	1	1	0	2	0	0	0	1			

2018 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

MODE - AGE GROUPS

TABLE 27

Mode	< Than 1		1-4		5-9		10-14		15-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80 and Over		Total		Grand Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F					
Asphyxia	0	1	1	0	0	0	3	0	2	0	1	0	2	0	0	0	1	0	0	0	1	0	0	1	2	1	1	1	0	0	0	0	2	0	3	0	19	4	23
Exposure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	2	1	3	
Falling	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0	0	0	2	0	3	2	2	2	3	3	4	5	11	3	7	6	48	93	84	114	198
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	1	0	1	0	1	3	5	8	13
Poisoning	0	0	0	0	0	0	0	0	0	1	0	3	12	4	18	4	8	6	8	5	11	5	9	4	9	6	13	0	0	0	1	0	0	1	0	0	89	39	128
Undetermined	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	1	8	4	9	13	
Total	0	1	1	0	0	0	3	0	2	1	1	5	15	5	19	4	11	6	8	6	15	6	13	7	13	9	19	4	5	5	14	4	11	7	53	105	203	175	378

2018 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

TABLE 28

FALLS - ETHANOL INCIDENCE

				Not Tested		Tested						Stages											
						Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%	
Falls by Code	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Fall On or From Stairs or Steps	2	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fall From One Level to Another	18	8	10	7	10	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
Fall On Same Level	158	61	97	55	94	6	3	4	3	2	0	0	0	1	0	0	0	0	0	0	1	0	0
Other and Unspecified Fall	20	13	7	12	7	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	198	84	114	76	111	8	3	5	3	3	0	0	0	1	0	0	0	0	0	0	1	0	0

2018 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

FALLS - AGE GROUPS

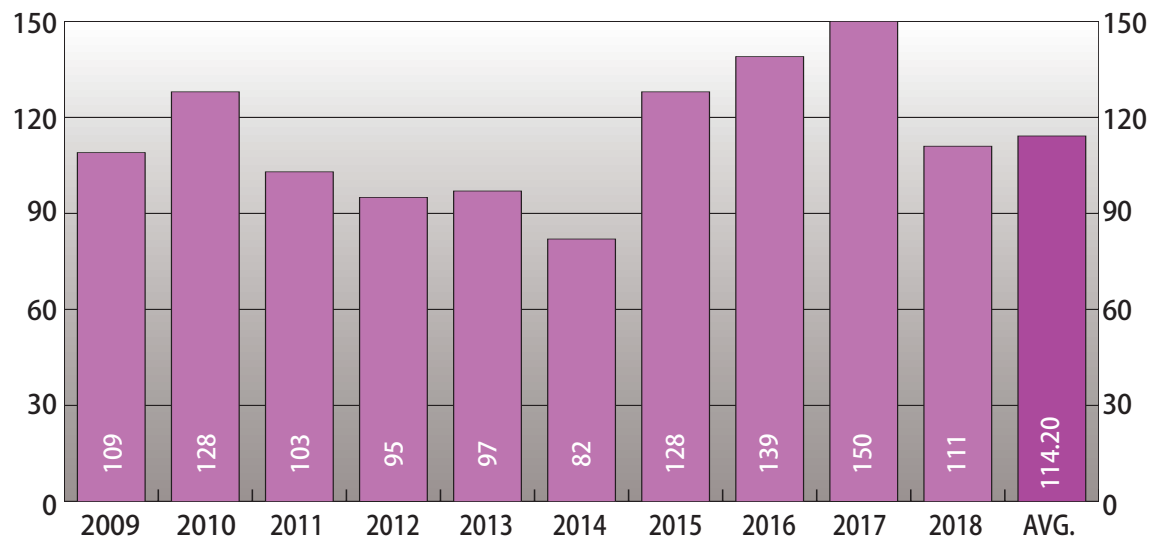
TABLE 29

Falls by Code	< Than 1		1-4		5-9		10-14		15-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80 and Over		Total		Grand Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
Fall From One Level to Another	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	2	
Fall On or From Stairs or Steps	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	2	2	0	0	4	7	8	10	18
Fall On Same Level	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	1	0	2	2	2	1	1	3	4	4	7	1	6	6	35	80	61	97	158
Other and Unspecified Fall	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	2	0	1	0	8	6	13	7	20
Total	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0	0	0	2	0	3	2	2	2	3	3	4	5	11	3	7	6	48	93	84	114	198



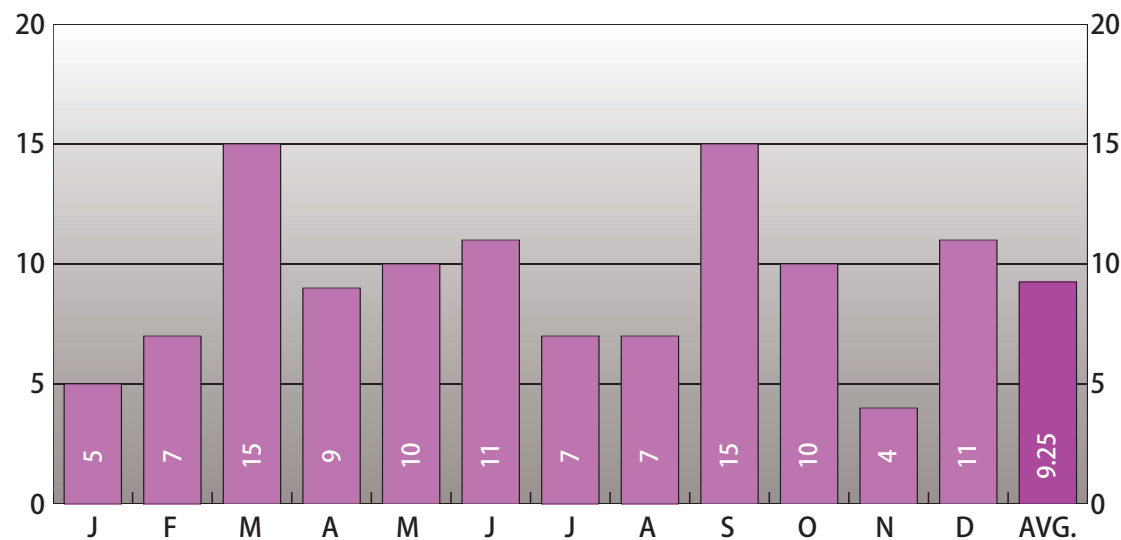
Photograph by J. Bielinski

2018 VEHICULAR FATALITIES FOR A PERIOD OF TEN YEARS



2018
TOTAL CASES
111

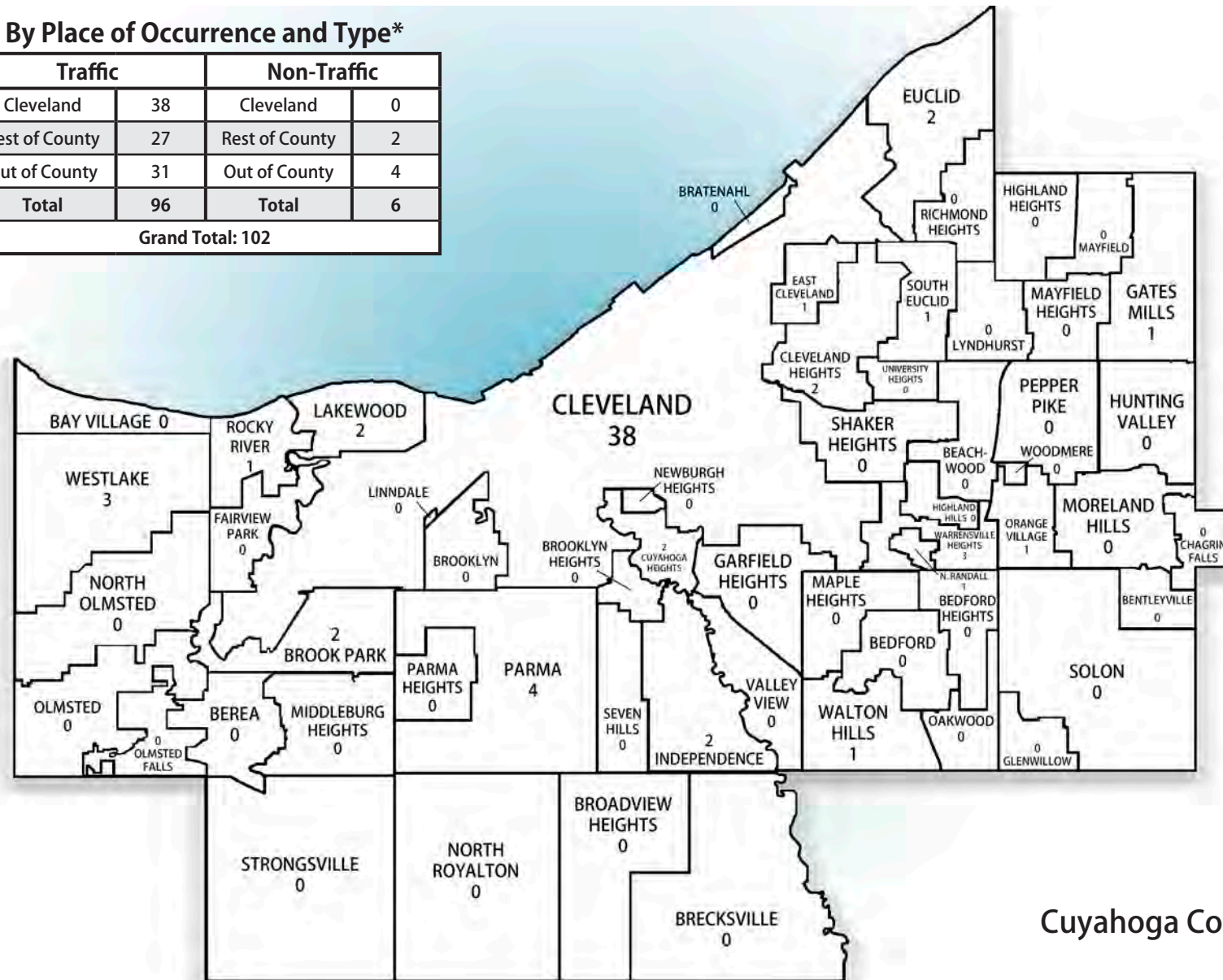
2018 VEHICULAR FATALITIES BY MONTH FOR THE YEAR 2018



		Number	Percent
Gender	Male	80	0.72
	Female	31	0.28
Race	White	62	0.56
	Black	47	0.42
	American Indian or Alaskan Native	1	0.01
	Asian	1	0.01
	Other	0	0.00
Ethnicity	Hispanic	3	0.03
	Non-Hispanic	108	0.97
Ethanol	Tested	67	0.60
	Positive	24	0.22
Autopsied		57	0.51

By Place of Occurrence and Type*

Traffic		Non-Traffic	
Cleveland	38	Cleveland	0
Rest of County	27	Rest of County	2
Out of County	31	Out of County	4
Total	96	Total	6
Grand Total: 102			



Cuyahoga County, Ohio

*Injury location and/or traffic type is unknown for 9 cases.

2018 VEHICULAR FATALITIES

DISTRIBUTION OF VEHICULAR FATALITIES BY CITY*

MAP 4

Cities			
Cleveland	38	Maple Heights	0
Bay Village	0	Mayfield Heights	0
Beachwood	0	Middleburg Heights	0
Bedford	0	North Olmsted	0
Bedford Heights	0	North Royalton	0
Berea	0	Olmsted Falls	0
Brecksville	0	Parma	4
Broadview Heights	0	Parma Heights	0
Brooklyn	0	Pepper Pike	0
Brook Park	2	Richmond Heights	0
Cleveland Heights	2	Rocky River	1
East Cleveland	1	Seven Hills	0
Euclid	2	Shaker Heights	0
Fairview Park	0	Solon	0
Garfield Heights	0	South Euclid	1
Highland Heights	0	Strongsville	0
Independence	2	University Heights	0
Lakewood	2	Warrensville Heights	3
Lyndhurst	0	Westlake	3
Villages			
Bentleyville	0	Mayfield Village	0
Bratenahl	0	Moreland Hills	0
Brooklyn Heights	0	Newburgh Heights	0
Cuyahoga Heights	2	North Randall	1
Gates Mills	1	Oakwood Village	0
Glenwillow	0	Orange Village	1
Highland Hills	0	Valley View	0
Hunting Valley	0	Walton Hills	1
Linndale	0	Woodmere	0
Townships			
Chagrin Falls	0	Olmsted Township	0

BLOOD ALCOHOL CONCENTRATION (BAC) BY WEIGHT AND GENDER

BAC Table for Women

Number of Drinks* per Hour	0	.00	.00	.00	.00	.00	.00	.00	.00	.00
	1	.05	.05	.04	.03	.03	.03	.02	.02	.02
	2	.10	.09	.08	.07	.06	.05	.05	.04	.04
	3	.15	.14	.11	.10	.09	.08	.07	.06	.06
	4	.20	.18	.15	.13	.11	.10	.09	.08	.08
	5	.25	.23	.19	.16	.14	.13	.11	.10	.09
	6	.30	.27	.23	.19	.17	.15	.14	.12	.11
	7	.35	.32	.27	.23	.20	.18	.16	.14	.13
	8	.40	.36	.30	.26	.23	.20	.18	.17	.15
	9	.45	.41	.34	.29	.26	.23	.20	.19	.17
	10	.51	.45	.38	.32	.28	.25	.23	.21	.19
	90	100	120	140	160	180	200	220	240	
Body Weight in Pounds										

BAC Table for Men

Number of Drinks* per Hour	0	.00	.00	.00	.00	.00	.00	.00	.00	.00
	1	-	.04	.03	.03	.02	.02	.02	.02	.02
	2	-	.08	.06	.05	.05	.04	.04	.03	.03
	3	-	.11	.09	.08	.07	.06	.06	.05	.05
	4	-	.15	.12	.11	.09	.08	.08	.07	.06
	5	-	.19	.16	.13	.12	.11	.09	.09	.08
	6	-	.23	.19	.16	.14	.13	.11	.10	.09
	7	-	.26	.22	.19	.16	.15	.13	.12	.11
	8	-	.30	.25	.21	.19	.17	.15	.14	.13
	9	-	.34	.28	.24	.21	.19	.17	.15	.14
	10	-	.38	.31	.27	.23	.21	.19	.17	.16
	90	100	120	140	160	180	200	220	240	
Body Weight in Pounds										

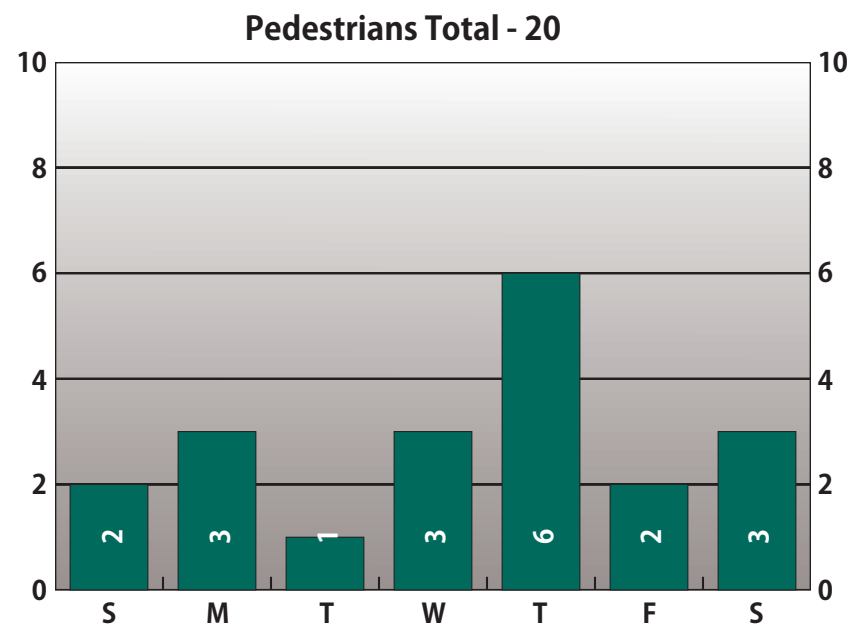
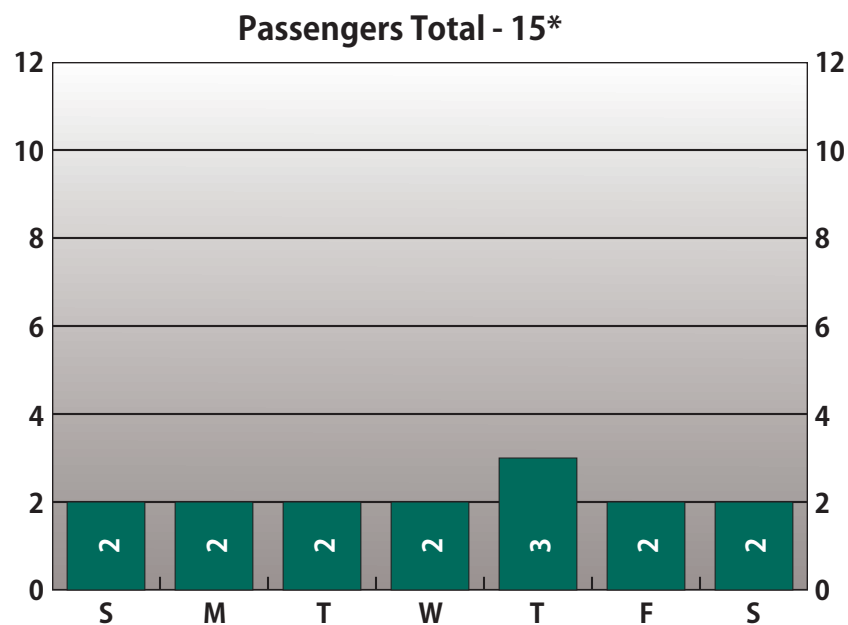
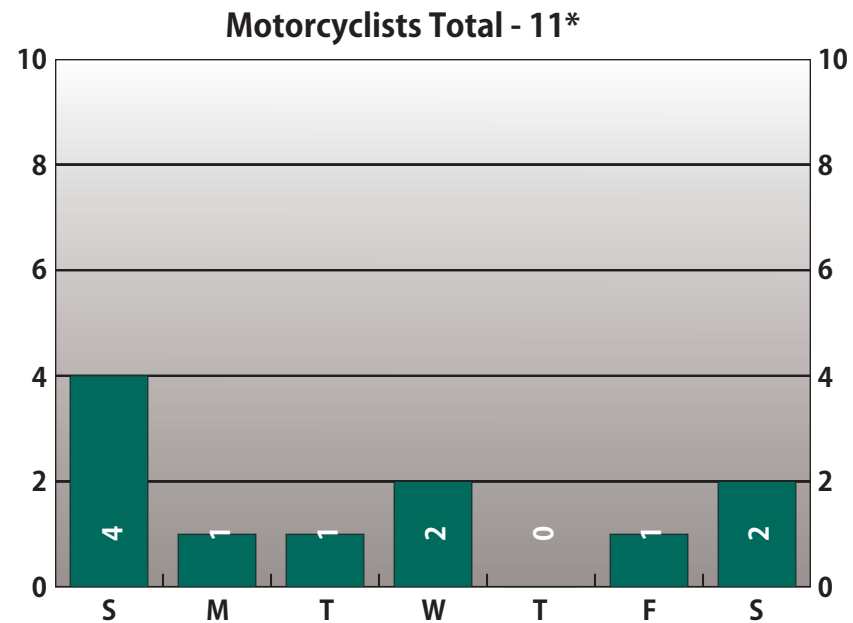
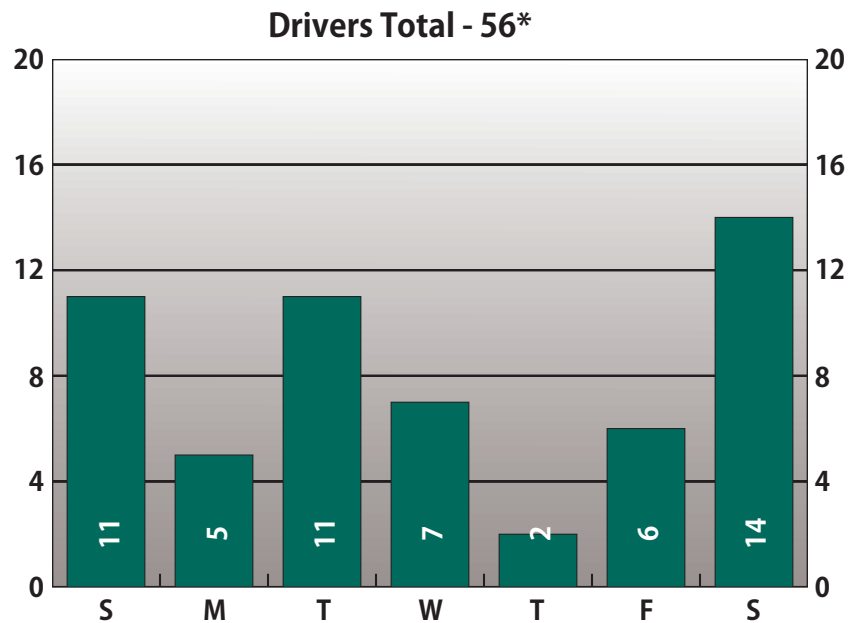
Please Note: This chart represents estimated blood concentrations for average individuals. It is not meant to be taken as a guide to alcohol consumption.

*A drink is defined as 1.25 ounces of 80 proof liquor (whiskey, vodka, gin, etc.), 12 ounces of beer or 5 ounces of wine.

From: Virginia Polytechnic Institute and State University (<http://www.alcohol.vt.edu/Students/alcoholEffects/estimatingBAC/index.htm>)

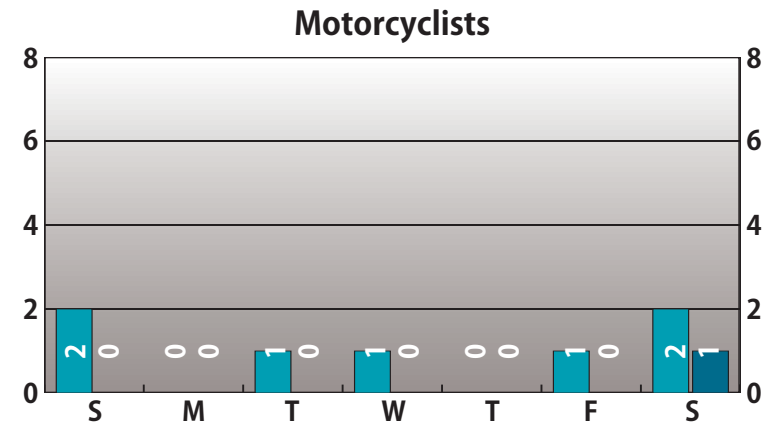
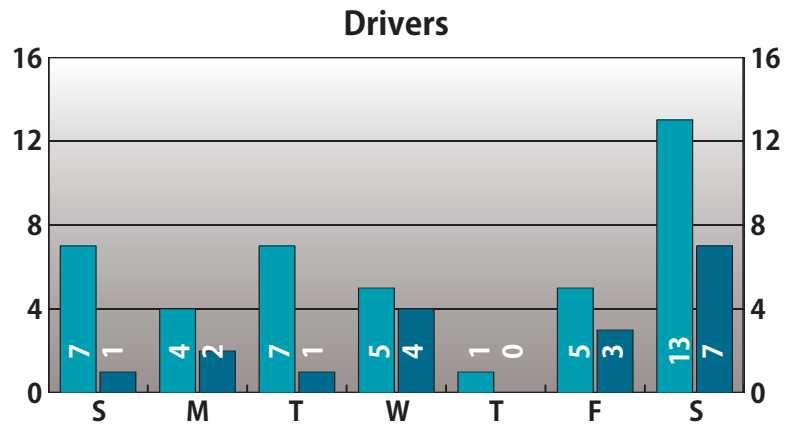
2018 VEHICULAR FATALITIES

DAILY INCIDENCE



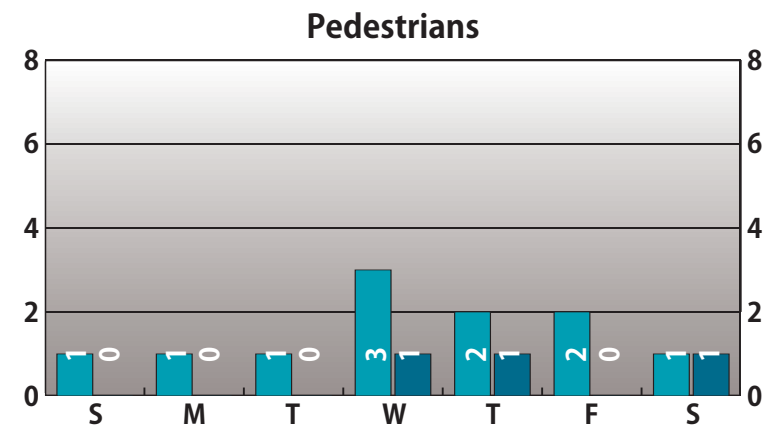
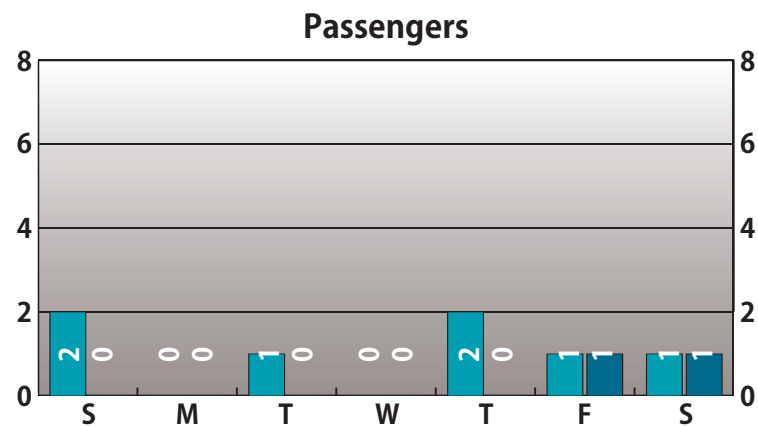
*Injury date and/or classification is unknown for 4 cases. ** Classification is unknown for 5 cases.

2018 VEHICULAR FATALITIES DAILY ETHANOL INCIDENCE



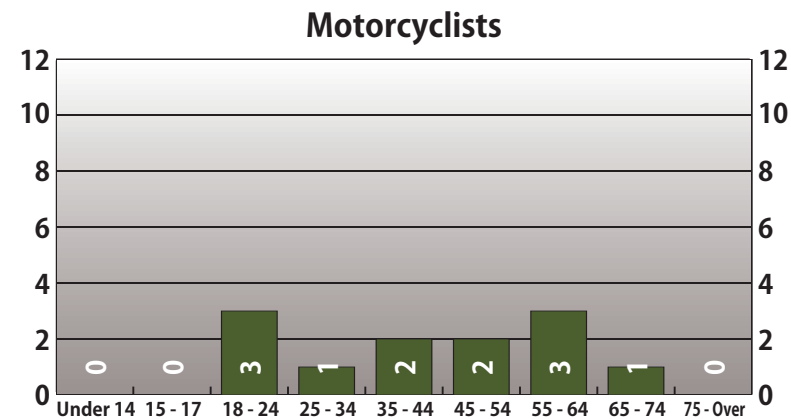
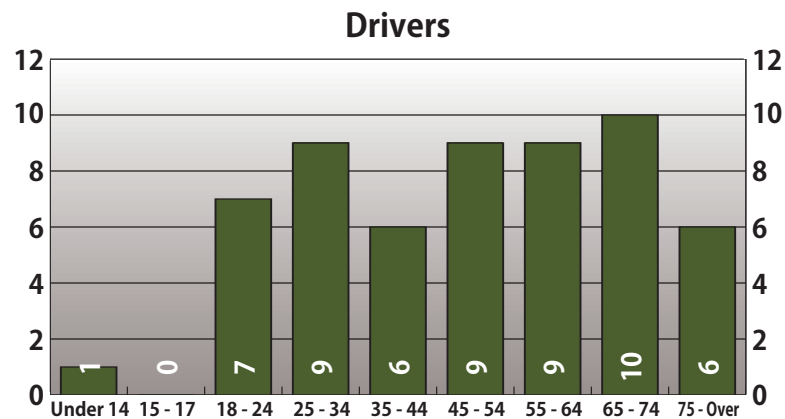
 **Total Tested**
 **Tested Positive**

	Tested	Positive
Drivers	42	18
Motorcyclists	7	1
Passengers	7	2
Pedestrian	11	3
Total	67	24

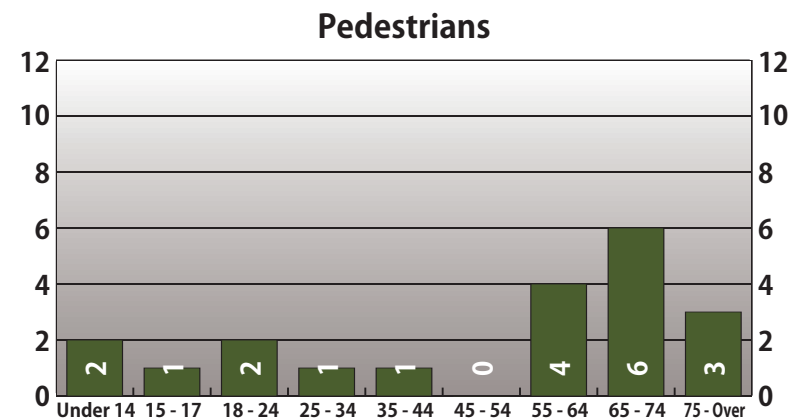
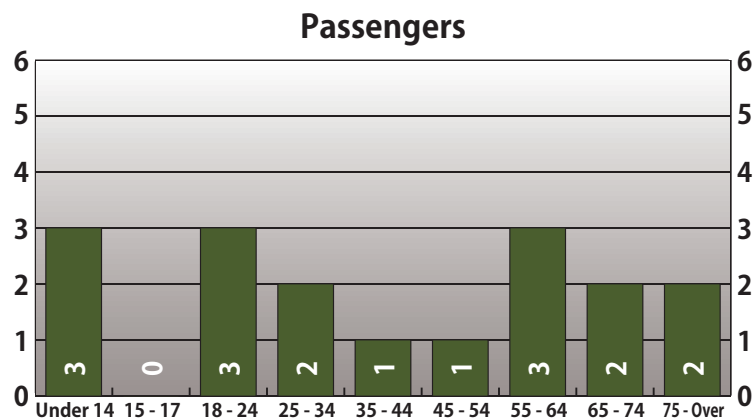
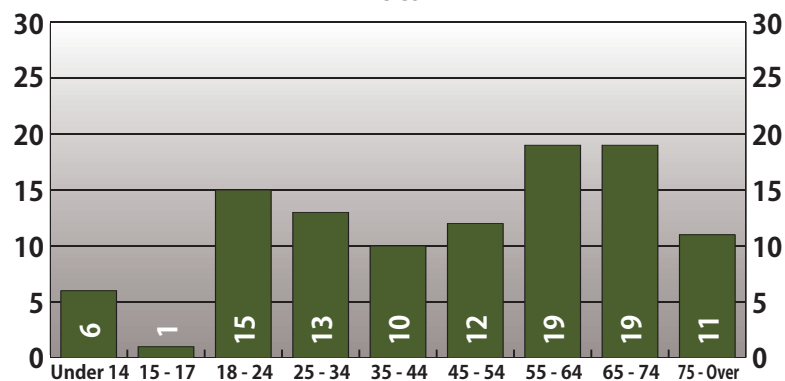


2018 VEHICULAR FATALITIES

AGE GROUPS - CLASSIFICATION* OF VICTIMS



Total



2018 VEHICULAR FATALITIES

TABLE 30

CLASSIFICATION OF VICTIMS - ETHANOL INCIDENCE

														Not Tested		Tested						Stages													
																Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Classification	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Driver	57	44	13	19	5	12	4	13	4	0	0	0	0	13	2	31	11	16	8	15	3	1	0	1	1	8	0	0	1	2	1	2	0	1	0
Motorcyclist	12	11	1	2	1	2	0	7	0	0	0	0	0	5	0	6	1	5	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
Passenger	17	7	10	2	1	1	3	3	6	0	0	1	0	5	5	2	5	1	4	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	
Pedestrian	20	14	6	8	0	4	3	2	3	0	0	0	0	6	3	8	3	5	3	3	0	1	0	0	0	1	0	1	0	0	0	0	0	0	
Unknown	5	4	1	0	0	0	0	2	1	0	0	2	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	111	80	31	31	7	19	10	27	14	0	0	3	0	33	11	47	20	27	16	20	4	2	0	1	2	11	0	1	1	2	1	2	0	1	0

2018 VEHICULAR FATALITIES

TABLE 31

DRIVERS/AGE OF VICTIMS - ETHANOL INCIDENCE

														Not Tested		Tested						Stages													
																Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Age	Total	Total		Cleveland		County		Out of County		Turnpike		Unknown		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Under 14	6	2	4	0	0	1	1	1	3	0	0	0	0	2	3	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15 - 17	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
18 - 24	15	8	7	4	3	2	2	2	2	0	0	0	0	1	2	7	5	6	4	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	
25 - 34	13	10	3	4	2	2	0	4	1	0	0	0	0	3	1	7	2	4	0	3	2	0	0	1	1	1	0	0	1	1	0	0	0	0	
35 - 44	11	9	2	6	1	1	1	1	0	0	0	1	0	2	0	7	2	3	1	4	1	0	0	0	0	3	0	0	0	0	1	0	0	1	0
45 - 54	12	11	1	5	0	3	1	2	0	0	0	1	0	4	0	7	1	3	1	4	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0
55 - 64	20	16	4	4	1	5	1	7	2	0	0	0	0	6	1	10	3	4	3	6	0	1	0	0	0	4	0	0	0	0	0	1	0	0	0
65 - 74	21	17	4	4	0	4	2	8	2	0	0	1	0	11	0	6	4	4	4	2	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0
75 and Older	12	6	6	3	0	1	2	2	4	0	0	0	0	4	4	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	111	80	31	31	7	19	10	27	14	0	0	3	0	33	11	47	20	27	16	20	4	2	0	1	2	11	0	1	1	2	1	2	0	1	0

2018 VEHICULAR FATALITIES

MONTHLY ETHANOL INCIDENCE

TABLE 32

													Not Tested		Tested						Stages														
															Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over		
Month	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
Jan.	5	5	0	1	0	1	0	2	0	0	0	1	0	4	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0			
Feb.	7	7	0	6	0	1	0	0	0	0	0	0	0	0	0	7	0	4	0	3	0	0	0	0	0	0	0	0	1	0	1	0	1	0	
Mar.	15	11	4	4	0	1	1	6	3	0	0	0	2	5	2	6	0	4	2	2	0	0	0	0	1	0	0	0	1	0	0	0	0	0	
Apr.	9	5	4	2	1	1	0	2	3	0	0	0	3	3	1	2	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
May	10	9	1	1	1	4	0	4	0	0	0	0	0	3	1	6	0	4	0	2	1	1	0	0	0	1	0	0	1	0	0	0	0	0	
Jun.	11	7	4	2	2	0	2	5	0	0	0	0	0	5	4	2	0	1	3	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	
July	7	4	3	1	1	2	0	1	2	0	0	0	0	1	3	3	0	1	2	2	1	0	0	0	1	2	0	0	0	0	0	0	0	0	
Aug.	7	5	2	1	1	1	0	3	1	0	0	0	1	2	1	3	0	2	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
Sept.	15	8	7	5	1	1	3	1	3	0	0	1	5	1	2	7	0	4	1	3	1	1	0	0	0	2	0	0	0	0	1	0	0	0	0
Oct.	10	8	2	4	0	3	1	1	1	0	0	0	0	3	2	5	0	3	2	2	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
Nov.	4	3	1	3	0	0	0	0	1	0	0	0	0	1	1	2	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
Dec.	11	8	3	1	0	4	3	2	0	0	0	1	0	5	3	3	0	1	3	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
Total	111	80	31	31	7	19	10	27	14	0	0	3	11	33	20	47	0	27	16	20	4	2	0	1	2	11	0	1	1	2	1	2	0	1	0

TABLE 33

DAILY ETHANOL INCIDENCE

				Not Tested		Tested						Stages											
						Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%	
Month	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Sunday	19	16	3	5	2	11	1	10	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0
Monday	11	8	3	4	2	4	1	2	1	2	0	0	0	1	0	0	0	0	0	0	0	1	0
Tuesday	15	9	6	4	1	5	5	5	4	0	1	0	0	0	0	0	0	0	0	1	0	0	0
Wednesday	14	12	2	4	1	8	1	3	1	5	0	2	0	0	0	2	0	0	0	1	0	0	0
Thursday	11	6	5	5	1	1	4	0	4	1	0	0	0	0	1	0	0	0	0	0	0	0	0
Friday	11	7	4	1	1	6	3	3	2	3	1	0	0	0	0	2	0	0	1	0	0	1	0
Saturday	21	14	7	2	2	12	5	4	3	8	2	0	0	0	2	5	0	1	0	1	0	1	0
Unknown	9	8	1	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	111	80	31	33	11	47	20	27	16	20	4	2	0	1	2	11	0	1	1	2	1	2	0

2018 VEHICULAR FATALITIES

AGE - RACE - ETHNICITY - ETHANOL INCIDENCE

TABLE 34

					Not Tested		Tested						Stages													
		Ethnicity		Total			Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over			
Age	Race	Total	Hispanic	Non-Hispanic	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Under 14	White	4	0	4	0	3	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	2	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AI or AN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 - 17	White	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AI or AN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 - 24	White	8	1	7	0	2	5	1	4	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	Black	7	0	7	1	0	2	4	2	3	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	AI or AN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 - 34	White	6	1	5	2	1	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	7	0	7	1	0	4	2	1	0	3	2	0	0	1	1	1	0	0	1	1	0	0	0	0	0
	AI or AN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 - 44	White	3	1	2	0	0	2	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	Black	8	0	8	2	0	5	1	2	0	3	1	0	0	0	0	2	0	0	0	0	1	0	0	1	0
	AI or AN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 - 54	White	5	0	5	3	0	1	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	7	0	7	1	0	6	0	3	0	3	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0
	AI or AN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 - 64	White	12	0	12	5	1	5	1	3	1	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
	Black	8	0	8	1	0	5	2	1	2	4	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0
	AI or AN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 34

AGE - RACE - ETHNICITY - ETHANOL INCIDENCE (continued)

Age	Race	Total	Ethnicity		Not Tested		Tested						Stages													
							Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
			Hispanic	Non-Hispanic	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
65 -74	White	15	0	15	8	0	4	3	2	3	2	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
	Black	4	0	4	3	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AI or AN	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 and Older	White	8	0	8	3	3	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	4	0	4	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AI or AN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	White	62	3	59	21	10	22	9	15	9	7	0	2	0	0	0	4	0	1	0	0	0	0	0	0	0
	Black	47	0	47	12	1	24	10	11	6	13	4	0	0	1	2	7	0	0	1	2	1	2	0	1	0
	AI or AN	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total		111	3	108	33	11	47	20	27	16	20	4	2	0	1	2	11	0	1	1	2	1	2	0	1	0

2018 VEHICULAR FATALITIES

TYPE OF ACCIDENT - ETHANOL INCIDENCE

TABLE 35

														Not Tested		Tested						Stages													
																Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Type	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
Traffic Collision	97	71	26	31	7	18	9	21	10	0	0	1	0	25	7	46	19	26	15	20	4	2	0	1	2	11	0	1	1	2	1	2	0	1	0
Non-Traffic/Collision	5	2	3	0	0	1	1	1	2	0	0	0	0	1	3	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Non-Traffic/Non-Collision	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Unknown Traffic and/or Collision Type	8	7	1	0	0	0	0	5	1	0	0	2	0	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	111	80	31	31	7	19	10	27	14	0	0	3	0	33	11	47	20	27	16	20	4	2	0	1	2	11	0	1	1	2	1	2	0	1	0

Traffic Accident (On-Roadway Accident): An on-roadway accident is (1) a collision accident in which the initial point of contact between colliding units is the first harmful event is within a roadway or (2) a noncollision accident in which the road vehicle involved was partly or entirely on the roadway at the time of the first harmful event.

Non-Traffic Accident (Off Roadway Accident): An off-roadway accident is any road vehicle accident other than an on-roadway accident.

Collision Accident: A collision accident is a road vehicle accident other than an overturning accident in which the first harmful event is a collision of a road vehicle in-transport with another road vehicle, other property or pedestrians.

Non-Collision Accident: A non-collision accident is any road vehicle accident other than a collision accident.

2018 VEHICULAR FATALITIES

NON-TRAFFIC ETHANOL INCIDENCE

TABLE 36

														Not Tested		Tested						Stages													
																Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Type	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
All-Terrain Vehicle-Fixed Object	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0				
All-Terrain Vehicle, Non-Collision.	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0				
Auto-Pedestrian	2	1	1	0	0	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Truck-Pedestrian	2	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Total	6	2	4	0	0	1	1	1	3	0	0	0	0	1	3	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0				

TABLE 37

TRAFFIC - COLLISION - ETHANOL INCIDENCE

														Not Tested		Tested						Stages													
																Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Type	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
Auto-Auto	10	6	4	3	2	1	2	2	0	0	0	0	0	4	1	2	3	2	2	0	1	0	0	0	1	0	0	0	0	0	0	0			
Auto-Fixed Object	24	19	5	7	1	5	1	6	3	0	0	1	0	5	1	14	4	4	3	10	1	0	0	0	0	5	0	0	1	2	0	2	0	1	0
Auto-Motorcycle	4	4	0	0	0	1	0	3	0	0	0	0	0	2	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Auto-Pedestrian	5	4	1	2	0	1	1	1	0	0	0	0	0	3	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Auto-Truck	10	9	1	4	0	5	0	0	1	0	0	0	0	2	1	7	0	3	0	4	0	1	0	1	0	2	0	0	0	0	0	0	0	0	
Motorcycle-Fixed Object	5	2	3	0	0	1	1	1	2	0	0	0	0	0	1	2	2	1	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
Motorcycle-Truck	4	4	0	2	0	0	0	2	0	0	0	0	0	2	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Truck-Fixed Object	9	6	3	5	2	0	1	1	0	0	0	0	0	0	0	6	3	4	1	2	2	0	0	0	1	2	0	0	0	0	1	0	0	0	
Truck-Pedestrian	5	3	2	2	0	1	1	0	1	0	0	0	0	0	0	3	2	1	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	
Truck-Truck	14	8	6	2	1	2	2	4	3	0	0	0	0	5	3	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Motor Vehicle Accident*	7	6	1	4	1	1	0	1	0	0	0	0	0	2	0	4	1	3	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
Total	97	71	26	31	7	18	9	21	10	0	0	1	0	25	7	46	19	26	15	20	4	2	0	1	2	11	0	1	1	2	1	2	0	1	0

*Other Includes: Includes: Auto-Electric Scooter; Bus-Pedestrian; and Unknown Motor Vehicle-Pedestrian.

2018 VEHICULAR FATALITIES

TRAFFIC - COLLISION - ETHANOL INCIDENCE (DRIVERS)

TABLE 37A

														Not Tested		Tested						Stages													
																Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Type	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
Auto-Auto	8	4	4	2	2	0	2	2	0	0	0	0	0	2	1	2	3	2	2	0	1	0	0	0	1	0	0	0	0	0	0	0			
Auto-Fixed Object	22	17	5	7	1	5	2	5	2	0	0	0	0	4	1	13	4	4	3	9	1	0	0	0	0	4	0	0	1	2	0	2	0	1	0
Auto-Truck	9	9	0	4	0	5	0	0	0	0	0	0	0	2	0	7	0	3	0	4	0	1	0	1	0	2	0	0	0	0	0	0	0	0	
Truck-Fixed Object	6	5	1	4	1	0	0	1	0	0	0	0	0	0	0	5	1	3	0	2	1	0	0	0	0	2	0	0	0	0	1	0	0	0	
Truck-Truck	9	7	2	2	1	2	1	3	0	0	0	0	0	4	0	3	2	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	54	42	12	19	5	12	5	11	2	0	0	0	0	12	2	30	10	15	7	15	3	1	0	1	1	8	0	0	1	2	1	2	0	1	0

2018 VEHICULAR FATALITIES

TRAFFIC - COLLISION - ETHANOL INCIDENCE (MOTORCYCLISTS)

TABLE 37B

													Not Tested		Tested						Stages											
															Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%	
Type	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Auto-Motorcycle	4	4	0	0	0	1	0	3	0	0	0	0	0	2	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
Motorcycle-Fixed Object	2	2	0	0	0	1	0	1	0	0	0	0	0	0	0	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	
Motorcycle-Truck	4	4	0	2	0	0	0	2	0	0	0	0	0	2	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Motor Vehicle Accident*	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
Total	11	10	1	2	1	2	0	6	0	0	0	0	0	4	0	6	1	5	1	1	0	0	0	0	0	0	0	0	0	0	0	

*Other Includes: Includes: Auto-Electric Scooter.

2018 VEHICULAR FATALITIES

TABLE 37C

TRAFFIC - COLLISION - ETHANOL INCIDENCE (PASSENGERS)

														Not Tested		Tested						Stages													
																Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Type	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
Auto-Auto	2	2	0	1	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Auto-Fixed Object	2	2	0	0	0	0	0	1	0	0	0	1	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0				
Auto-Truck	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Motorcycle-Fixed Object	3	0	3	0	0	0	1	0	2	0	0	0	0	0	1	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0				
Truck-Fixed Object	3	1	2	1	1	0	1	0	0	0	0	0	0	0	0	1	2	1	1	0	1	0	0	0	1	0	0	0	0	0	0				
Truck-Truck	5	1	4	0	0	0	1	1	3	0	0	0	0	1	3	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0				
Total	16	6	10	2	1	1	3	2	6	0	0	1	0	4	5	2	5	1	4	1	1	0	0	0	1	1	0	0	0	0	0				

2018 VEHICULAR FATALITIES

TABLE 37D

TRAFFIC - COLLISION - ETHANOL INCIDENCE (PEDESTRIANS)

														Not Tested		Tested						Stages													
																Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Type	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
Auto-Pedestrian	5	4	1	2	0	1	1	1	0	0	0	0	0	3	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0				
Truck-Pedestrian	5	3	2	2	0	1	1	0	1	0	0	0	0	0	0	3	2	1	2	2	0	1	0	0	0	0	0	1	0	0	0	0			
Other Motor Vehicle Accident*	6	6	0	4	0	1	0	1	0	0	0	0	0	2	0	4	0	3	0	1	0	0	0	0	0	1	0	0	0	0	0	0			
Total	16	13	3	8	0	3	2	2	1	0	0	0	0	5	0	8	3	5	3	3	0	1	0	0	0	1	0	1	0	0	0	0			

*Other Includes: Bus-Pedestrian; and Unknown Motor Vehicle-Pedestrian

NO DATA TO DISPLAY

TABLE 39

TRAFFIC AND NON-TRAFFIC - MONTHLY ETHANOL INCIDENCE

NO DATA TO DISPLAY

TABLE 40

WEATHER CONDITIONS - ETHANOL INCIDENCE

														Not Tested		Tested						Stages													
																Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Weather Condition	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
Clear	66	46	20	14	6	14	6	18	8	0	0	0	0	15	6	31	14	20	11	11	3	2	0	1	1	6	0	0	1	0	1	0			
Cloudy	19	16	3	12	1	2	1	2	1	0	0	0	0	7	1	9	2	4	1	5	1	0	0	0	1	3	0	0	0	2	0	0	0		
Rain	9	6	3	4	0	1	1	1	2	0	0	0	0	2	1	4	2	2	2	2	0	0	0	0	0	0	0	1	0	0	0	1	0	0	
Snow	2	1	1	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0		
Other/Unknown	15	11	4	0	0	2	1	6	3	0	0	3	0	9	3	2	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0		
Total	111	80	31	31	7	19	10	27	14	0	0	3	0	33	11	47	20	27	16	20	4	2	0	1	2	11	0	1	1	2	1	2	0	1	0

2018 VEHICULAR FATALITIES

ROAD CONDITIONS - ETHANOL INCIDENCE

TABLE 41

														Not Tested		Tested						Stages													
																Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Total		Cleveland		County		Out of County		Turnpike		Unknown																									
Road Condition	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Dry	75	54	21	24	6	12	7	18	8	0	0	0	0	20	6	34	15	19	12	15	3	2	0	1	1	9	0	0	1	2	1	0	0	1	0
Wet	17	12	5	5	1	5	2	2	2	0	0	0	0	3	1	9	4	6	3	3	1	0	0	0	1	0	0	1	0	0	0	2	0	0	0
Snow	2	1	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
Ice	2	2	0	1	0	0	0	1	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Unknown	15	11	4	0	0	2	1	6	3	0	0	3	0	9	3	2	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Total	111	80	31	31	7	19	10	27	14	0	0	3	0	33	11	47	20	27	16	20	4	2	0	1	2	11	0	1	1	2	1	2	0	1	0

2018 VEHICULAR FATALITIES

LIGHT CONDITIONS - ETHANOL INCIDENCE

TABLE 42

														Not Tested		Tested						Stages													
																Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Total		Cleveland		County		Out of County		Turnpike		Unknown																									
Light Condition	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Daylight	49	30	19	10	2	10	7	10	10	0	0	0	0	12	8	18	11	12	10	6	1	2	0	0	0	3	0	1	1	0	0	0	0	0	0
Dawn	2	2	0	1	0	1	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dusk	3	2	1	0	0	0	0	2	1	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dark - Lighted Roadway	35	26	9	18	5	6	3	2	1	0	0	0	0	6	1	20	8	9	5	11	3	0	0	1	2	5	0	0	0	2	1	2	0	1	0
Dark - Roadway Not Lighted	9	9	0	2	0	0	0	7	0	0	0	0	0	5	0	4	0	2	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	
Unknown	13	11	2	0	0	2	0	6	2	0	0	3	0	9	1	2	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
Total	111	80	31	31	7	19	10	27	14	0	0	3	0	33	11	47	20	27	16	20	4	2	0	1	2	11	0	1	1	2	1	2	0	1	0

2018 VEHICULAR FATALITIES

TABLE 43

CLASSIFICATION OF VICTIMS - AGE GROUPS

Classification	Under 14		15-17		18-24		25-34		35-44		45-54		55-64		65-74		75 and Over		Total		Grand Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Driver	0	1	0	0	4	3	7	2	5	1	8	1	7	2	10	0	3	3	44	13	57
Motorcyclist	0	0	0	0	2	1	1	0	2	0	2	0	3	0	1	0	0	0	11	1	12
Passenger (including motorcycles)	1	2	0	0	1	2	1	1	0	1	1	0	1	2	1	1	1	1	7	10	17
Pedestrian	1	1	1	0	1	1	1	0	1	0	0	0	4	0	3	3	2	1	14	6	20
Unknown	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2	0	0	1	4	1	5
Total	2	4	1	0	8	7	10	3	9	2	11	1	16	4	17	4	6	6	80	31	111

2018 VEHICULAR FATALITIES

TABLE 44

MONTH AND AGE GROUPS

Month	Under 14		15-17		18-24		25-34		35-44		45-54		55-64		65-74		75 and Over		Total		Grand Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
January	0	0	0	0	0	0	1	0	0	0	1	0	1	0	2	0	0	0	5	0	5
February	0	0	0	0	3	0	1	0	1	0	1	0	0	0	1	0	0	0	7	0	7
March	0	0	0	0	1	0	0	1	1	0	3	0	1	0	5	2	0	1	11	4	15
April	0	0	0	0	0	3	1	0	1	0	0	0	1	0	2	0	0	1	5	4	9
May	0	0	0	0	1	0	1	1	0	0	1	0	4	0	2	0	0	0	9	1	10
June	0	0	1	0	0	2	1	0	1	1	1	0	0	1	1	0	2	0	7	4	11
July	1	1	0	0	0	0	2	1	0	0	0	0	1	0	0	1	0	0	4	3	7
August	1	1	0	0	1	1	0	0	0	0	1	0	2	0	0	0	0	0	5	2	7
September	0	2	0	0	0	0	0	0	3	1	2	0	2	2	0	0	1	2	8	7	15
October	0	0	0	0	2	1	3	0	0	0	1	0	0	1	1	0	1	0	8	2	10
November	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	1	3	1	4
December	0	0	0	0	0	0	0	0	1	0	0	1	4	0	2	1	1	1	8	3	11
Total	2	4	1	0	8	7	10	3	9	2	11	1	16	4	17	4	6	6	80	31	111

2018 VEHICULAR FATALITIES - AUTOPSIES

MONTH AND AGE GROUPS

TABLE 45

Month	Under 14		15-17		18-24		25-34		35-44		45-54		55-64		65-74		75 and Over		Total		Grand Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
January	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
February	0	0	0	0	3	0	1	0	1	0	1	0	0	0	1	0	0	0	7	0	7
March	0	0	0	0	0	0	0	0	1	0	2	0	1	0	3	1	0	0	7	1	8
April	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	2	1	3
May	0	0	0	0	0	0	0	1	0	0	1	0	2	0	1	0	0	0	4	1	5
June	0	0	0	0	0	2	0	0	1	1	0	0	0	1	0	0	0	0	1	4	5
July	1	0	0	0	0	0	2	1	0	0	0	0	1	0	0	1	0	0	4	2	6
August	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	2	1	3
September	0	1	0	0	0	0	0	0	2	1	2	0	1	1	0	0	1	0	6	3	9
October	0	0	0	0	1	1	2	0	0	0	0	0	0	1	1	0	0	0	4	2	6
November	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1
December	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	1	2	2	4
Total	1	1	0	0	5	5	6	2	7	2	7	0	6	3	6	3	2	1	40	17	57

TABLE 46

MAJOR INJURY AND SURVIVAL INTERVAL

Major Injury	Driver						Motorcyclist						Passenger						Pedestrian						Grand Total					
	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Grand Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More
Brain, Fracture of Skull Only	8	0	1	0	1	6	3	0	0	0	1	2	1	0	0	0	0	1	3	0	1	0	0	2	15	0	2	0	2	11
Brain, Fracture of Skull and Body Fractures	2	1	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	2	1	0	0	0	0	1	5	1	0	0	0	4
Extremities	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	3	0	1	0	0	2
Head and Extremities	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
Head and Trunk	3	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	4	2	1	0	0	1
Head, Trunk and Extremities	35	14	14	0	4	3	8	1	5	0	0	2	9	0	7	1	0	1	13	4	6	1	0	2	65	19	32	2	4	8
Spinal Cord, Fracture of Vertebra	2	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	4	0	0	0	0	4
Trunk	4	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	1	1	2
Trunk and Extremities	1	0	1	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	2	1	0	0	1	0	5	1	3	0	1	0
Total	57	18	18	1	6	14	12	1	5	0	1	5	17	0	9	1	0	7	20	5	7	1	1	6	106	24	39	3	8	32

2018 VEHICULAR FATALITIES

MAJOR INJURY AND SURVIVAL INTERVAL - AGE GROUPS (ALL CLASSIFICATIONS)

TABLE 47

	Brain						Miscellaneous						Multiple Injuries						Spinal Cord						Trunk						Total					
	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Grand Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More						
Age																																				
Under 14	2	0	1	0	0	1	0	0	0	0	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	6	0	5	0	0	1					
15 - 17	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0					
18 - 24	1	0	0	0	0	1	1	0	0	0	0	1	13	6	4	1	1	1	0	0	0	0	0	0	0	15	6	4	1	1	3					
25 - 34	2	0	0	0	0	2	0	0	0	0	0	0	11	3	5	0	2	1	0	0	0	0	0	0	0	13	3	5	0	2	3					
35 - 44	0	0	0	0	0	0	1	0	1	0	0	0	9	3	5	0	0	1	0	0	0	0	0	0	0	10	3	6	0	0	1					
45 - 54	2	0	0	0	0	2	0	0	0	0	0	0	8	5	2	0	0	1	1	0	0	0	0	1	1	12	5	2	0	1	4					
55 - 64	2	0	0	0	1	1	1	0	0	0	0	1	14	0	9	0	1	4	1	0	0	0	0	1	1	19	0	9	1	2	7					
65 - 74	5	0	0	0	1	4	0	0	0	0	0	0	10	5	3	1	0	1	2	0	0	0	0	2	2	19	5	4	1	1	8					
75 and Over	2	0	1	0	0	1	0	0	0	0	0	0	8	2	2	0	1	3	0	0	0	0	0	0	1	11	2	3	0	1	5					
Total	16	0	2	0	2	12	3	0	1	0	0	2	78	24	35	2	5	12	4	0	0	0	0	4	5	0	1	1	1	2	106	24	39	3	8	32

TABLE 47A

MAJOR INJURY AND SURVIVAL INTERVAL - AGE GROUPS (DRIVERS)

	Brain						Miscellaneous						Multiple Injuries						Spinal Cord						Trunk						Total					
	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Grand Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More
Age																																				
Under 14	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
15 - 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18 - 24	1	0	0	0	0	1	0	0	0	0	0	0	6	4	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	7	4	1	0	1	1	
25 - 34	2	0	0	0	0	2	0	0	0	0	0	0	7	3	1	0	2	1	0	0	0	0	0	0	0	0	0	0	0	9	3	1	0	2	3	
35 - 44	0	0	0	0	0	0	1	0	1	0	0	0	5	2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	6	2	3	0	0	1	
45 - 54	1	0	0	0	0	1	0	0	0	0	0	0	7	5	2	0	0	0	0	0	0	0	0	0	1	1	0	0	1	9	5	2	0	1	1	
55 - 64	0	0	0	0	0	0	0	0	0	0	0	0	7	0	5	0	1	1	1	0	0	0	0	1	1	0	0	1	9	0	5	1	1	2		
65 - 74	2	0	0	0	1	1	0	0	0	0	0	0	6	3	2	0	0	1	1	0	0	0	0	1	1	0	0	0	10	3	2	0	1	4		
75 and Over	2	0	1	0	0	1	0	0	0	0	0	0	3	1	2	0	0	0	0	0	0	0	0	0	1	1	0	0	0	6	1	3	0	0	2	
Total	8	0	1	0	1	6	1	0	1	0	0	0	42	18	16	0	4	4	2	0	0	0	0	2	4	0	0	1	1	2	57	18	18	1	6	14

2018 VEHICULAR FATALITIES

MAJOR INJURY AND SURVIVAL INTERVAL - AGE GROUPS (MOTORCYCLISTS)

TABLE 47B

	Brain						Miscellaneous						Multiple Injuries						Spinal Cord						Trunk						Total					
	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Grand Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More
Age	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Under 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 - 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 - 24	0	0	0	0	0	0	0	0	0	0	0	0	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	2	0	0	0
25 - 34	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
35 - 44	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0
45 - 54	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	2
55 - 64	2	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	1	2	
65 - 74	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
75 and Over	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	3	0	0	0	1	2	0	0	0	0	0	0	8	1	5	0	0	2	1	0	0	0	0	1	0	0	0	0	0	12	1	5	0	1	5	

TABLE 47C

MAJOR INJURY AND SURVIVAL INTERVAL - AGE GROUPS (PASSENGERS)

	Brain						Miscellaneous						Multiple Injuries						Spinal Cord						Trunk						Total					
	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More						
Age																																				
Under 14	1	0	0	0	0	1	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1						
15 - 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
18 - 24	0	0	0	0	0	0	1	0	0	0	0	1	2	0	1	1	0	0	0	0	0	0	0	0	0	0	3	0	1	1	0	1				
25 - 34	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0				
35 - 44	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0				
45 - 54	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1				
55 - 64	0	0	0	0	0	0	0	0	0	0	0	0	3	0	2	0	0	1	0	0	0	0	0	0	0	0	3	0	2	0	0	1				
65 - 74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	1	2	0	1	0	0	1				
75 and Over	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	2				
Total	2	0	0	0	0	2	1	0	0	0	0	1	12	0	8	1	0	3	1	0	0	0	0	1	1	0	1	0	9	1	0	7				

2018 VEHICULAR FATALITIES

MAJOR INJURY AND SURVIVAL INTERVAL - AGE GROUPS (PEDESTRIANS)

TABLE 47D

	Brain						Miscellaneous						Multiple Injuries						Spinal Cord						Trunk						Total					
	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More	Total	Dead on Arrival	Less Than 12 Hours	12 - 24 Hours	1 - 7 Days	8 Days or More						
Age																																				
Under 14	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
15 - 17	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
18 - 24	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0						
25 - 34	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
35 - 44	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
45 - 54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
55 - 64	0	0	0	0	0	0	1	0	0	0	0	1	3	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0						
65 - 74	2	0	0	0	0	2	0	0	0	0	0	0	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
75 and Over	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0						
Total	3	0	1	0	0	2	1	0	0	0	0	1	16	5	6	1	1	3	0	0	0	0	0	0	0	0	0	0	0	0						

TABLE 48A

GEOGRAPHICAL LOCATION - TYPE OF ACCIDENT* - CLASSIFICATION OF VICTIMS

	Auto												Motorcycle										Truck								Other**		Grand Total
	Auto		Fixed Object		Motorcycle		Non-Collision		Pedestrian		Truck		Fixed Object		Motorcycle		Non-Collision		Pedestrian		Truck		Fixed Object		Non-Collision		Pedestrain		Truck				
Cities	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
Brook Park Driver Pedestrian	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1 0	0 0	0 0	0 0		
Cleveland Driver Motorcyclist Passenger Pedestrian	2 0 1 0	2 0 0 0	7 0 0 0	1 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 2	4 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	2 0 0 0	1 0 0 0	0 0 0 0	0 0 0 0	0 0 0 4	0 0 0 0		
Cleveland Heights Driver	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
East Cleveland Pedestrian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
Euclid Driver	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Independence Motorcyclist Passenger	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	

**Includes: Auto-Electric Scooter; Bus-Pedestrian; and Unknown Motor Vehicle-Pedestrian.

2018 VEHICULAR FATALITIES

GEOGRAPHICAL LOCATION - TYPE OF ACCIDENT* - CLASSIFICATION OF VICTIMS (continued)

TABLE 48A

	Auto												Motorcycle										Truck								Other**		Grand Total
	Auto		Fixed Object		Motorcycle		Non-Collision		Pedestrian		Truck		Fixed Object		Motorcycle		Non-Collision		Pedestrian		Truck		Fixed Object		Non-Collision		Pedestrain		Truck				Grand Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
Cities	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
Lakewood Driver Passenger	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 0	1 1		
Parma Driver Motorcyclist	0 0	0 0	0 0	1 0	0 1	0 0	0 0	0 0	0 0	0 0	2 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	3 1		
Rocky River Driver	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
South Euclid Pedestrian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1		
Warrensville Heights Driver Passenger	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0 0	0 0	1 0	0 0	2 1		
Westlake Driver Pedestrian	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0 0	0 0	1 2		
Total	3	4	10	2	1	0	0	0	2	2	9	0	0	0	0	0	0	0	0	0	0	2	0	5	3	0	0	3	1	3	3	0	61

**Includes: Auto-Electric Scooter; Bus-Pedestrian; and Unknown Motor Vehicle-Pedestrian.

TABLE 48B

GEOGRAPHICAL LOCATION - TYPE OF ACCIDENT* - CLASSIFICATION OF VICTIMS

	Auto												Motorcycle										Truck								Other		Grand Total
	Auto		Fixed Object		Motorcycle		Non-Collision		Pedestrian		Truck		Fixed Object		Motorcycle		Non-Collision		Pedestrian		Truck		Fixed Object		Non-Collision		Pedestrian		Truck				Grand Total
Villages/Townships	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
Villages: Cuyahoga Heights Driver	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
Passenger	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
Gates Mills Driver	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
North Randall Driver	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Orange Village Pedestrian	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Walton Hills Pedestrian	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Total	1	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	6	

2018 VEHICULAR FATALITIES

GEOGRAPHICAL LOCATION - TYPE OF ACCIDENT* - CLASSIFICATION OF VICTIMS

TABLE 48C

	Auto												Motorcycle										Truck										Other**		Grand Total
	Auto		Fixed Object		Motorcycle		Non-Collision		Pedestrian		Truck		Fixed Object		Motorcycle		Non-Collision		Pedestrian		Truck		Fixed Object		Non-Collision		Pedestrian		Truck		Grand Total				
Out of County/Unknown	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F					
Out of County:	2	0	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0	2	1	17		
Driver	0	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	7		
Motorcyclist	0	0	1	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	1	0	9			
Passenger	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	1	0	5			
Pedestrian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	3			
Unknown																																			
Unknown Location:	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1			
Passenger	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2			
Unknown																																			
Total	2	0	7	3	3	0	0	0	1	0	0	1	1	2	0	0	0	0	0	0	2	0	1	0	0	0	0	3	4	3	9	2	44		

**Includes: All-Terrain Vehicle. Non-Collision; All-Terrain Vehicle-Fixed Object; and Unknown Motor Vehicle Collision.

TABLE 49

HOURLY - DAILY - ETHANOL INCIDENCE (ALL CASES*)

	Sunday						Monday						Tuesday						Wednesday						Thursday						Friday						Saturday						Totals						
	Total		Tested		Positive		Total		Tested		Positive		Total		Tested		Positive		Total		Tested		Positive		Total		Tested		Positive		Total		Tested		Positive		Total		Tested		Positive								
Time	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Grand Total						
12:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3			
1:00 A.M.	2	0	2	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7			
2:00 A.M.	1	0	1	0	0	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5			
3:00 A.M.	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3			
4:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2			
5:00 A.M.	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3			
6:00 A.M.	0	1	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5			
7:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2			
8:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3			
9:00 A.M.	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4			
10:00 A.M.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2			
11:00 A.M.	2	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5			
Total A.M.	9	1	5	0	0	0	4	1	2	1	1	0	5	1	3	1	0	1	3	1	3	1	3	0	2	1	0	1	0	0	3	2	3	2	2	1	8	3	8	3	5	2	34	10	24	9	11	4	44
12:00 P.M.	1	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4			
1:00 P.M.	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3			
2:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4			
3:00 P.M.	1	1	1	0	0	0	0	2	0	0	0	0	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9			
4:00 P.M.	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4			
5:00 P.M.	1	0	1	0	0	0	0	0	0	0	0	0	2	1	1	1	0	0	3	0	3	0	1	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9		
6:00 P.M.	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2			
7:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1			
8:00 P.M.	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5			
9:00 P.M.	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5			
10:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8		
11:00 P.M.	1	0	1	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3			
Total P.M.	7	2	6	1	1	0	4	2	2	0	1	0	4	5	2	4	0	0	9	1	5	0	2	0	3	4	0	3	0	0	4	2	3	1	1	0	6	4	4	2	3	0	37	20	22	11	8	0	57
Grand Total	16	3	11	1	1	0	8	3	4	1	2	0	9	6	5	5	0	1	12	2	8	1	5	0	5	5	0	4	0	0	7	4	6	3	3	1	14	7	12	5	8	2	71	30	46	20	19	4	101

*Day and/or time is unknown for 10 cases.

2018 VEHICULAR FATALITIES

HOURLY - DAILY - ETHANOL INCIDENCE (DRIVERS)

TABLE 49A

	Sunday						Monday						Tuesday						Wednesday						Thursday						Friday						Saturday						Totals						
	Total		Tested		Positive		Total		Tested		Positive		Total		Tested		Positive		Total		Tested		Positive		Total		Tested		Positive		Total		Tested		Positive		Total		Tested		Positive								
Time	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Grand Total						
12:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2				
1:00 A.M.	2	0	2	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6			
2:00 A.M.	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4			
3:00 A.M.	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2			
4:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2			
5:00 A.M.	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3			
6:00 A.M.	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3			
7:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
8:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2			
9:00 A.M.	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4			
10:00 A.M.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
11:00 A.M.	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2			
Total A.M.	6	1	3	0	0	0	3	1	2	1	1	0	3	1	2	1	0	1	2	0	2	0	2	0	1	1	0	1	0	0	2	1	2	1	1	1	8	2	8	2	5	1	25	7	19	6	9	3	32
12:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
1:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
2:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
3:00 P.M.	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4		
4:00 P.M.	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
5:00 P.M.	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4		
6:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
7:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
8:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
9:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4		
11:00 P.M.	1	0	1	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
Total P.M.	4	0	4	0	1	0	1	0	1	0	1	0	3	4	1	3	0	0	5	0	3	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	
Grand Total	10	1	7	0	1	0	4	1	3	1	2	0	6	5	3	4	0	1	7	0	5	0	4	0	1	1	0	1	0	0	4	2	3	2	2	1	11	3	10	3	6	1	43	13	31	11	15	3	56

*Day and/or time is unknown for 1 case.

TABLE 49B

HOURLY - DAILY - ETHANOL INCIDENCE (MOTORCYCLISTS*)

	Sunday						Monday						Tuesday						Wednesday						Thursday						Friday						Saturday						Totals																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	Total		Tested		Positive		Total		Tested		Positive		Total		Tested		Positive		Total		Tested		Positive		Total		Tested		Positive		Total		Tested		Positive																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Time	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Grand Total																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
12:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
1:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
2:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
3:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
4:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
5:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
6:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
7:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
8:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
9:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
10:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
11:00 A.M.	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Total A.M.	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
12:00 P.M.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
1:00 P.M.	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
2:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
3:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
4:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
5:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
6:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
7:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
8:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
9:00 P.M.	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
10:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
11:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Total P.M.	2	0	1	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	8	1	5	1	1	0	9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Grand Total	4	0	2	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*Day and/or time is unknown for 1 case.

HOURLY - DAILY - ETHANOL INCIDENCE (PASSENGERS)

TABLE 49C

[illegible]

***Day and/or time is unknown for 2 cases.**

TABLE 49D

HOURLY - DAILY - ETHANOL INCIDENCE (PEDESTRIANS)

	Sunday						Monday						Tuesday						Wednesday						Thursday						Friday						Saturday						Totals																																																																																																																																																																																																																																																													
	Total		Tested		Positive		Total		Tested		Positive		Total		Tested		Positive		Total		Tested		Positive		Total		Tested		Positive		Total		Tested		Positive		Total		Tested		Positive																																																																																																																																																																																																																																																															
Time	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Grand Total																																																																																																																																																																																																																																																															
12:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1																																																																																																																																																																																																																																																														
1:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																														
2:00 A.M.	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1																																																																																																																																																																																																																																																													
3:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																													
4:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																													
5:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																													
6:00 A.M.	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2																																																																																																																																																																																																																																																										
7:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2																																																																																																																																																																																																																																																										
8:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																										
9:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																										
10:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																										
11:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																										
Total A.M.	1	0	1	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	1	1	1	1	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7																																																																																																																																																																																																																																																								
12:00 P.M.	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2																																																																																																																																																																																																																																																									
1:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																										
2:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																										
3:00 P.M.	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1																																																																																																																																																																																																																																																									
4:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																									
5:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2																																																																																																																																																																																																																																																								
6:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																									
7:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																									
8:00 P.M.	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																									
9:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																									
10:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3																																																																																																																																																																																																																																																								
11:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																									
Total P.M.	0	1	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	2	2	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*Day and/or time is unknown for 1 case.

2018 VEHICULAR FATALITIES

HOURLY AND DAILY INCIDENCE* ARRANGED BY CLASSIFICATION

TABLE 50

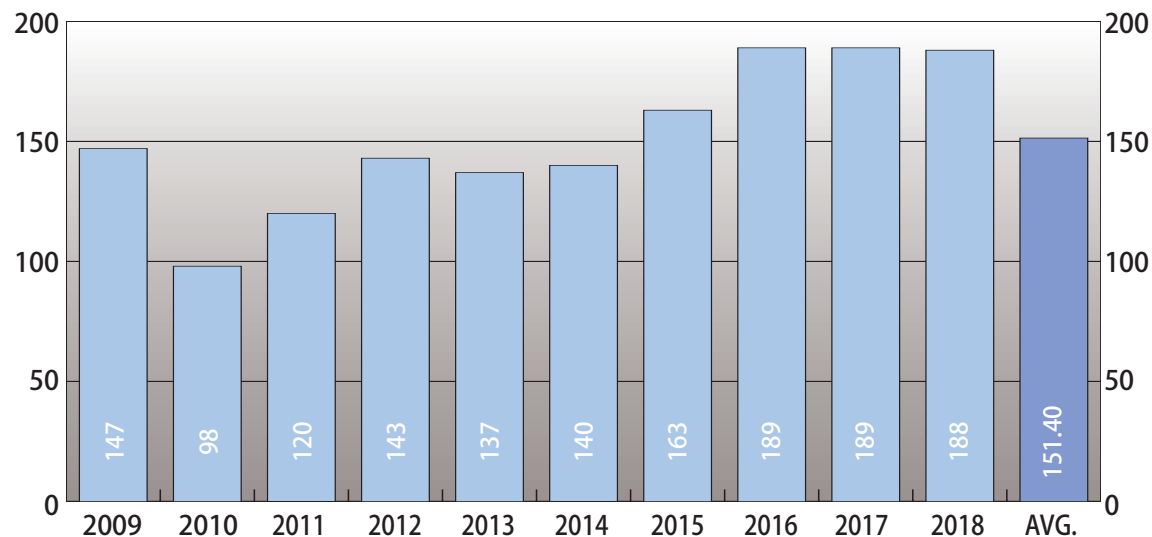
	Sunday								Monday								Tuesday								Wednesday								Thursday								Friday								Saturday								Totals							
	Driver	Motorcyclist	Passenger	Pedestrian	Driver	Motorcyclist	Passenger	Pedestrian	Driver	Motorcyclist	Passenger	Pedestrian	Driver	Motorcyclist	Passenger	Pedestrian	Driver	Motorcyclist	Passenger	Pedestrian	Driver	Motorcyclist	Passenger	Pedestrian	Driver	Motorcyclist	Passenger	Pedestrian	Driver	Motorcyclist	Passenger	Pedestrian	Driver	Motorcyclist	Passenger	Pedestrian																												
Time	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Grand Total																											
12:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3																											
1:00 A.M.	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7																											
2:00 A.M.	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	5																											
3:00 A.M.	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3																											
4:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2																											
5:00 A.M.	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3																											
6:00 A.M.	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5																											
7:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2																											
8:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3																											
9:00 A.M.	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4																											
10:00 A.M.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2																											
11:00 A.M.	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5																											
Total A.M.	6	1	2	0	0	0	1	0	3	1	0	0	0	0	1	0	3	1	0	0	1	0	1	0	2	0	0	0	0	0	1	1	1	1	0	0	0	44																										
12:00 P.M.	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4																											
1:00 P.M.	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3																											
2:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4																											
3:00 P.M.	1	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9																											
4:00 P.M.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4																											
5:00 P.M.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	9																										
6:00 P.M.	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2																											
7:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1																											
8:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5																											
9:00 P.M.	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5																											
10:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8																											
11:00 P.M.	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3																											
Total P.M.	4	0	2	0	1	1	0	1	0	0	2	2	0	3	4	1	0	0	1	0	0	5	0	2	0	1	1	1	0	0	0	0	0	0	0	0	0	57																										
Grand Total	10	1	4	0	1	1	1	1	4	1	1	0	0	2	3	0	6	5	1	0	1	1	1	0	7	0	2	0	1	1	2	1	1	1	0	0	1																											

*Day and/or time is unknown for 5 cases.

TABLE 51

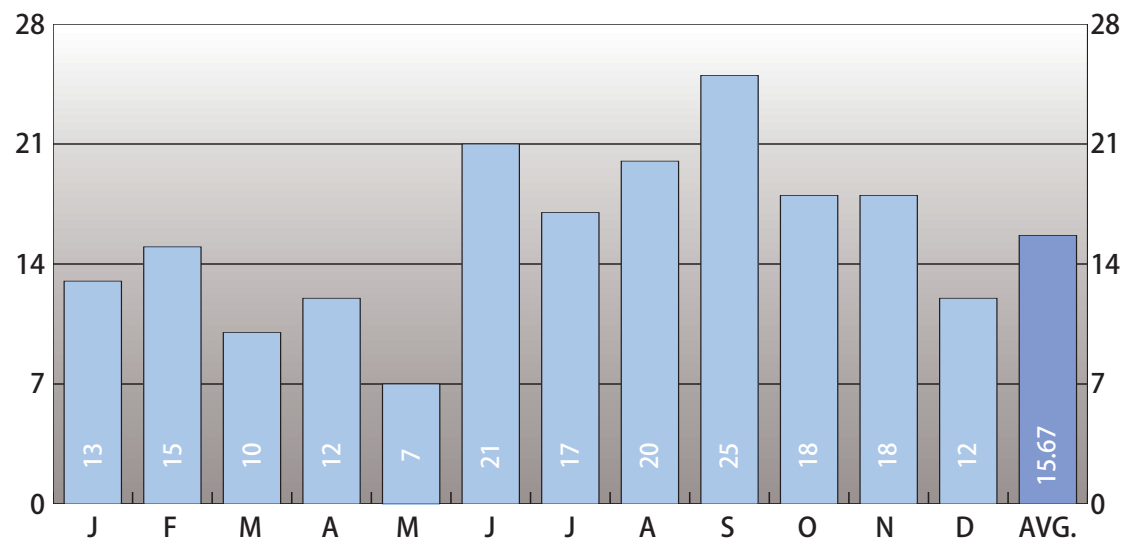
***Day and/or time is unknown for 10 cases.**

2018 HOMICIDES FOR A PERIOD OF TEN YEARS



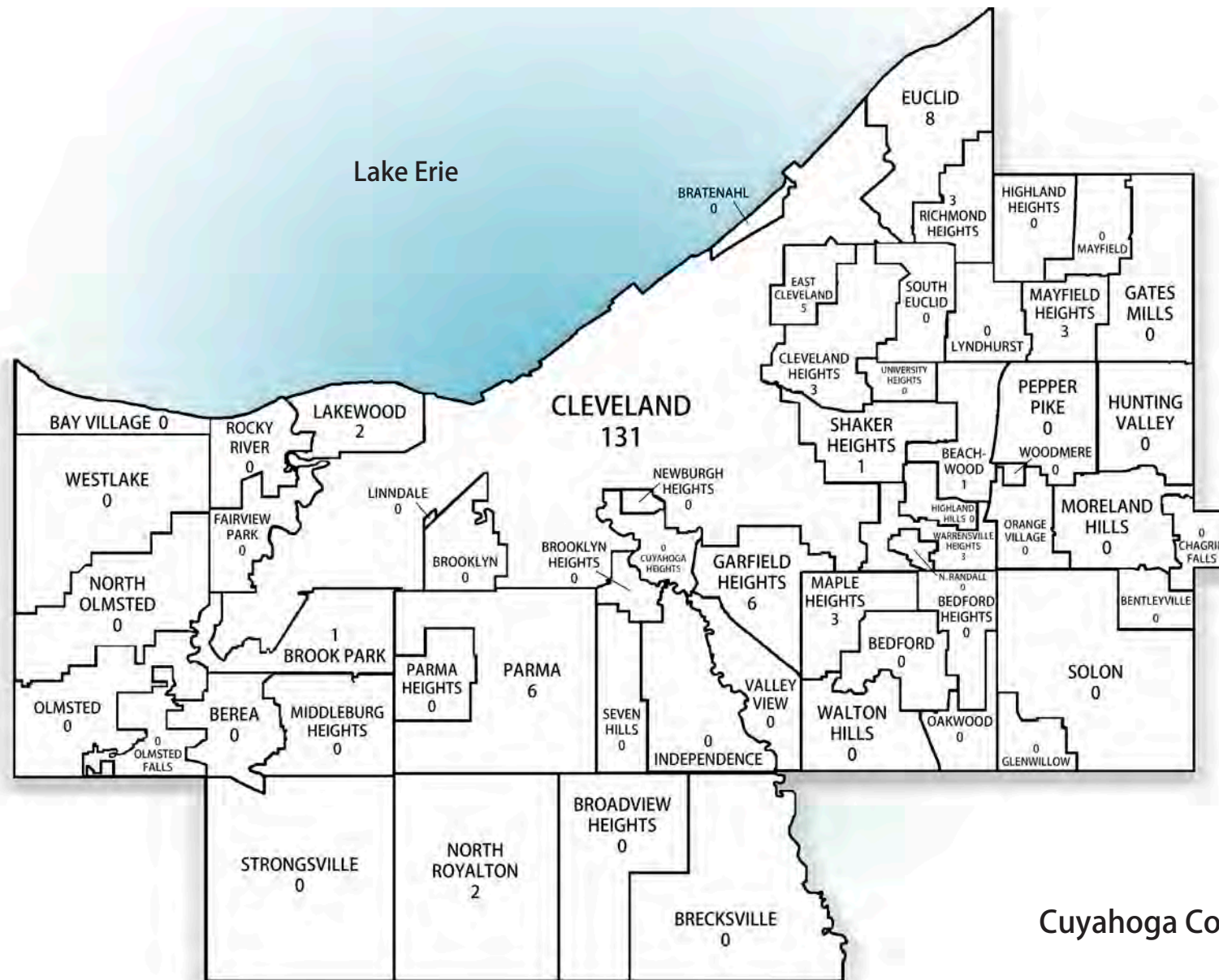
2018
TOTAL CASES
188

2018 HOMICIDES BY MONTH FOR THE YEAR 2018



		Number	Percent
Gender	Male	143	76.06%
	Female	45	23.94%
Race	White	58	30.85%
	Black	129	68.62%
	Native Hawaiian or Pacific Islander	1	0.53%
Ethnicity	Hispanic	12	6.38%
	Non-Hispanic	176	93.62%
Ethanol	Tested	158	84.04%
	Positive	66	35.11%
Autopsied		188	100.00%

MAP 5



Cuyahoga County, Ohio

*Injury location is unknown for 3 cases and 6 cases are from outside of Cuyahoga County.

2018 HOMICIDES

DISTRIBUTION OF HOMICIDES BY CITY*

MAP 5

Cities			
Cleveland	131	Maple Heights	3
Bay Village	0	Mayfield Heights	3
Beachwood	1	Middleburg Heights	0
Bedford	0	North Olmsted	0
Bedford Heights	0	North Royalton	2
Berea	0	Olmsted Falls	0
Brecksville	0	Parma	6
Broadview Heights	0	Parma Heights	0
Brooklyn	0	Pepper Pike	0
Brook Park	1	Richmond Heights	3
Cleveland Heights	3	Rocky River	0
East Cleveland	5	Seven Hills	0
Euclid	8	Shaker Heights	1
Fairview Park	0	Solon	0
Garfield Heights	6	South Euclid	0
Highland Heights	0	Strongsville	0
Independence	0	University Heights	0
Lakewood	2	Warrensville Heights	3
Lyndhurst	0	Westlake	0
Villages			
Bentleyville	0	Mayfield Village	0
Bratenahl	0	Moreland Hills	0
Brooklyn Heights	0	Newburgh Heights	0
Cuyahoga Heights	0	North Randall	0
Gates Mills	0	Oakwood Village	0
Glenwillow	0	Orange Village	0
Highland Hills	1	Valley View	0
Hunting Valley	0	Walton Hills	0
Linndale	0	Woodmere	0
Townships			
Chagrin Falls	0	Olmsted Township	0

TABLE 52

MONTHLY ETHANOL INCIDENCE

												Not Tested		Tested						Stages													
														Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Month	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Jan.	13	9	4	7	2	2	2	0	0	0	0	7	4	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Feb.	15	12	3	8	1	2	2	2	0	0	0	8	0	4	3	3	2	1	1	1	0	0	1	0	0	0	0	0	0	0	0		
Mar.	10	5	5	5	2	0	3	0	0	0	0	2	2	3	3	1	2	2	1	0	1	0	0	1	0	0	0	1	0	0	0		
Apr.	12	11	1	10	1	0	0	1	0	0	0	0	0	11	1	8	0	3	1	3	0	0	0	0	0	0	0	1	0	0	0		
May	7	6	1	4	1	2	0	0	0	0	0	0	0	6	1	3	0	3	1	0	1	1	0	2	0	0	0	0	0	0	0		
Jun.	21	17	4	14	3	3	1	0	0	0	0	1	0	16	4	10	3	6	1	4	0	1	1	0	0	1	0	0	0	0	0		
July	17	14	3	12	2	1	1	1	0	0	0	2	0	12	3	5	3	7	0	2	0	1	0	2	0	0	0	1	0	0	1		
Aug.	20	19	1	15	1	4	0	0	0	0	0	0	0	19	1	9	0	10	1	3	0	3	0	1	0	3	1	0	0	0	0		
Sept.	25	15	10	11	8	3	1	1	1	0	0	1	0	14	10	10	8	4	2	2	1	1	1	1	0	0	0	0	0	0	0		
Oct.	18	14	4	8	1	4	3	0	0	2	0	1	0	13	4	5	3	8	1	0	0	2	0	1	0	1	0	3	1	0	1		
Nov.	18	11	7	7	1	4	5	0	0	0	1	0	1	11	6	5	3	6	3	2	0	1	1	1	1	0	0	1	1	1	0		
Dec.	12	10	2	7	0	3	2	0	0	0	0	1	0	9	2	6	1	3	1	0	0	0	0	1	1	0	0	2	0	0	0		
Total	188	143	45	108	23	28	20	5	1	2	1	23	7	120	38	67	25	53	13	17	3	10	4	10	2	5	1	8	3	1	0		

2018 HOMICIDES

AGE - RACE - ETHNICITY - ETHANOL INCIDENCE

TABLE 53

					Not Tested		Tested						Stages													
		Ethnicity		Total			Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over			
Age	Race	Total	Hispanic	Non-Hispanic	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Under 1 Year	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Native Hawaiian or Pacific Islander	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 - 4	White	2	0	2	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	5	1	4	1	0	3	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Native Hawaiian or Pacific Islander	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5 - 9	White	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Native Hawaiian or Pacific Islander	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10 - 14	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Native Hawaiian or Pacific Islander	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15 - 19	White	4	3	1	1	0	2	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	11	0	11	4	1	4	2	3	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	
	Native Hawaiian or Pacific Islander	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20 - 24	White	3	1	2	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	15	0	15	1	0	13	1	10	0	3	1	1	0	0	0	1	1	0	0	1	0	0	0	0	0
	Native Hawaiian or Pacific Islander	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

TABLE 53

AGE - RACE - ETHNICITY - ETHANOL INCIDENCE (continued)

Age	Race	Total	Ethnicity		Not Tested		Tested						Stages													
							Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
			Hispanic	Non-Hispanic	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
25 - 29	White	9	1	8	2	0	5	2	4	1	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0
	Black	31	0	31	3	0	24	4	13	2	11	2	4	0	2	1	4	0	0	0	1	1	0	0	0	0
	Native Hawaiian or Pacific Islander	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 - 34	White	7	5	2	0	1	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	14	0	14	2	0	9	3	4	1	5	2	2	2	0	0	0	0	2	0	0	0	0	0	1	0
	Native Hawaiian or Pacific Islander	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 - 39	White	5	0	5	0	1	4	0	1	0	3	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0
	Black	16	0	16	1	1	13	1	6	1	7	0	3	0	2	0	0	0	1	0	0	0	1	0	0	0
	Native Hawaiian or Pacific Islander	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 - 44	White	3	0	3	0	0	1	2	1	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	Black	5	0	5	0	0	4	1	2	1	2	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0
	Native Hawaiian or Pacific Islander	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 - 49	White	3	0	3	1	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	8	0	8	0	0	6	2	1	1	5	1	1	0	2	0	0	0	0	1	2	0	0	0	0	0
	Native Hawaiian or Pacific Islander	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 - 54	White	5	0	5	1	1	1	2	0	0	1	2	0	1	0	1	1	0	0	0	0	0	0	0	0	0
	Black	9	0	9	3	0	6	0	2	0	4	0	1	0	2	0	0	0	0	0	1	0	0	0	0	0
	Native Hawaiian or Pacific Islander	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

2018 HOMICIDES

AGE - RACE - ETHNICITY - ETHANOL INCIDENCE (continued)

TABLE 53

					Not Tested		Tested						Stages													
							Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Age	Race	Total	Hispanic	Non-Hispanic	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
55 - 59	White	5	0	5	0	1	3	1	2	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	7	0	7	1	0	4	2	1	1	3	1	2	0	0	0	0	0	1	0	0	1	0	0	0	0
	Native Hawaiian or Pacific Islander	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60 - 64	White	5	0	5	0	1	3	1	2	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Native Hawaiian or Pacific Islander	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
65 - 69	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	5	0	5	0	0	5	0	1	0	4	0	1	0	0	0	2	0	0	0	1	0	0	0	0	0
	Native Hawaiian or Pacific Islander	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
70 - 74	White	5	0	5	1	0	2	2	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Native Hawaiian or Pacific Islander	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
75 - 79	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Native Hawaiian or Pacific Islander	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
80 and Over	White	1	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Native Hawaiian or Pacific Islander	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

TABLE 53

AGE - RACE - ETHNICITY - ETHANOL INCIDENCE (continued)

Age	Race	Total	Ethnicity		Not Tested		Tested						Stages													
							Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
			Hispanic	Non-Hispanic	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Total	White	58	11	47	7	5	28	18	20	13	8	5	2	1	1	2	2	1	1	0	2	1	0	0	0	0
	Black	129	1	128	16	2	91	20	46	12	45	8	15	2	9	2	8	1	4	1	6	2	1	0	2	0
	Native Hawaiian or Pacific Islander	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total		188	12	176	23	7	120	38	67	25	53	13	17	3	10	4	10	2	5	1	8	3	1	0	2	0

2018 HOMICIDES

MODE - ETHANOL INCIDENCE

TABLE 54

												Not Tested		Tested						Stages														
														Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over		
Mode	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
Asphyxia*	5	2	3	1	1	0	2	0	0	1	0	0	0	2	3	2	2	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
Assault	33	21	12	10	7	6	3	4	1	1	1	3	2	18	10	12	7	6	3	1	2	0	1	2	0	1	0	2	0	0	0	0	0	
Others**	4	3.	1	1	0	2	1	0	0	0	0	0	0	3	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Shooting	132	109	23	92	12	16	11	1	0	0	0	20	4	89	19	47	12	42	7	14	1	9	2	8	1	4	1	4	2	1	0	2	0	0
Stabbing	14	8	6	4	3	4	3	0	0	0	0	0	1	8	5	3	3	5	2	2	0	1	1	0	1	0	0	2	0	0	0	0	0	0
Total	188	143	45	108	23	28	20	5	1	2	1	23	7	120	38	67	25	53	13	17	3	10	4	10	2	5	1	8	3	1	0	2	0	0

* Includes mechanical, plastic bag, strangulation and suffocation.

** Includes arson and miscellaneous.

TABLE 55

MODE - AGE GROUPS

Mode	< Than 1		1-4		5-9		10-14		15-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80 and Over		Total		Grand Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
Asphyxia*	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	3	5	
Assault	0	1	3	2	0	0	0	0	0	1	0	0	1	0	1	3	2	1	1	1	2	0	1	1	4	0	2	1	3	0	1	0	0	0	0	1	21	12	33
Others**	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	4	
Shooting	0	0	0	0	0	1	0	1	11	2	16	2	30	4	13	4	14	2	4	0	6	1	8	1	4	2	1	1	1	0	1	2	0	0	0	0	109	23	132
Stabbing	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	2	1	1	2	1	0	1	0	0	1	0	1	0	0	0	0	8	6	14	
Total	0	1	5	2	0	2	0	1	11	4	16	2	35	6	14	7	18	3	5	3	9	2	11	3	8	4	3	2	5	0	3	2	0	0	0	1	143	45	188

* Includes mechanical, plastic bag, strangulation and suffocation.

** Includes arson and miscellaneous.

2018 HOMICIDES (DURING LEGAL INTERVENTION)

PLACE OF OCCURRENCE - CIRCUMSTANCES - ASSAILANTS / VICTIMS - ETHANOL INCIDENCE

TABLE 56

												Not Tested		Tested						Stages													
		Total		Cleveland		County		Out of County		Unknown				Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Assailants	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Public Circumstances: During or Following an Argument	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
During or Following the Commission or Attempted Commission of a Felony	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total	3	3	0	2	0	1	0	0	0	0	0	1	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

TABLE 57A

PLACE OF OCCURRENCE - CIRCUMSTANCES - ASSAILANTS / VICTIMS - ETHANOL INCIDENCE

												Not Tested		Tested						Stages													
														Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Circumstances / Assailants	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
Home Circumstances: During or Following an Argument																																	
Acquaintance	6	5	1	2	0	3	1	0	0	0	0	1	0	4	1	1	1	3	0	1	0	1	0	0	0	0	0	1	0	0	0	0	
Boyfriend	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ex-Husband	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Girlfriend	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0		
Roommate	1	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Son	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0		
Unknown	5	4	1	2	1	1	0	1	0	0	0	2	0	2	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0		
During or Following the Commission or Attempted Commission of a Felony																																	
Stranger	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Unknown	7	5	2	4	2	1	0	0	0	0	0	1	0	4	2	2	0	2	1	0	0	0	1	1	0	0	0	1	0	0	0		
Other Home Circumstances																																	
Boyfriend	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Caretaker	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Girlfriend	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Mother	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Relative	1	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Roommate	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Son	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Unknown	8	7	1	6	1	1	0	0	0	0	0	0	0	7	1	3	1	4	0	0	0	3	0	0	0	0	0	1	0	0	0	0	
Unknown Home Circumstances																																	
Acquaintance	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0		
Boyfriend	3	1	2	1	2	0	0	0	0	0	0	0	0	1	2	1	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0		
Brother	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Husband	4	0	4	0	1	0	3	0	0	0	0	0	2	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Neighbor	2	0	2	0	0	0	2	0	0	0	0	0	0	0	2	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0		
Other Relative	2	1	1	0	0	0	1	0	0	1	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Son	3	2	1	0	0	2	1	0	0	0	0	0	0	2	1	0	0	2	1	2	0	0	1	0	0	0	0	0	0	0	0		
Unknown	21	16	5	11	3	4	1	1	1	0	0	3	1	13	4	9	4	4	0	2	0	0	0	0	0	1	0	1	0	0	0	0	
Total	76	48	28	30	11	13	16	3	1	2	0	8	4	40	24	22	18	18	5	7	0	4	2	2	2	1	0	4	1	0	0	0	

2018 HOMICIDES

PLACE OF OCCURRENCE - CIRCUMSTANCES - ASSAILANTS / VICTIMS - ETHANOL INCIDENCE

TABLE 57B

												Not Tested		Tested						Stages													
														Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Circumstances / Assailants	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Public Circumstances: During or Following an Argument Acquaintance	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Stranger	2	2	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
Unknown	18	16	2	14	2	2	0	0	0	0	0	1	0	15	2	8	1	7	1	1	0	0	1	1	0	2	0	1	0	0	0	2	0
Wife	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
During or Following the Commission or Attempted Commission of a Felony																																	
Acquaintance	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	
Father	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Stranger	4	2	2	0	1	2	1	0	0	0	0	1	0	1	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Unknown	4	4	0	3	0	1	0	0	0	0	0	1	0	3	0	1	0	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0	
Other Public Circumstances																																	
Acquaintance	2	2	0	2	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
Caretaker	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Stranger	1	0	1	0	1	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Unknown	6	6	0	6	0	0	0	0	0	0	0	1	0	5	0	3	0	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	
Unknown Public Circumstances																																	
Acquaintance	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	
Boyfriend	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	
Father	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Unknown	64	56	8	48	7	6	0	2	0	0	1	8	3	48	5	27	1	21	4	8	2	5	0	5	0	1	1	2	1	0	0	0	0
Total	109	92	17	76	12	14	4	2	0	0	1	14	3	79	14	43	6	35	8	10	3	6	2	8	0	4	1	4	2	1	0	2	0

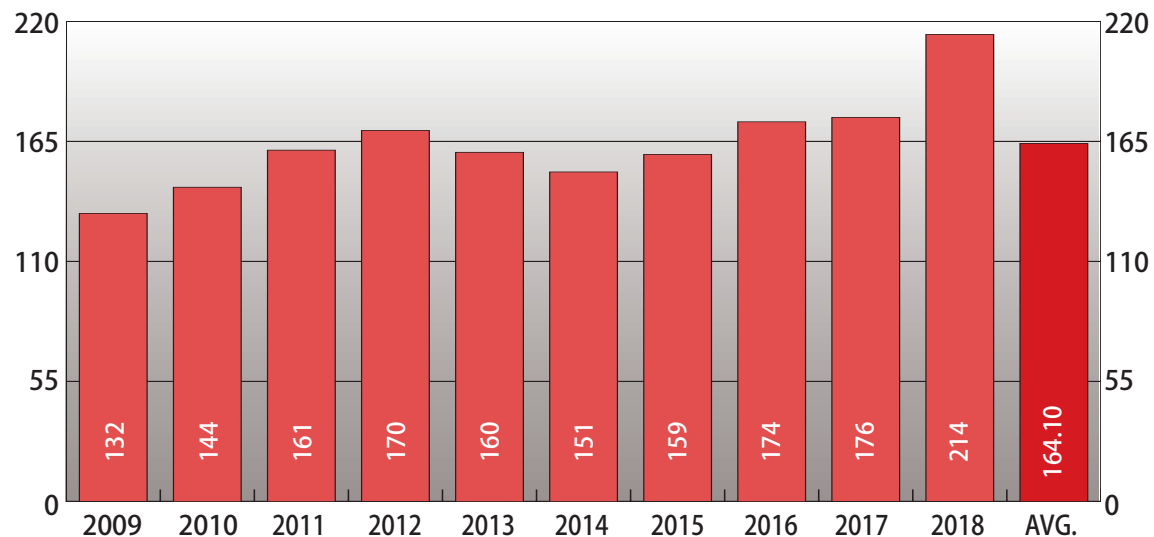
TABLE 58

HOMICIDES IN CUYAHOGA COUNTY FOR THE PAST 25 YEARS

Year	Total Homicides	Firearms	Firearm Percentage of Total	Blunt Violence (Manual, Pedal, and Instrumental Assault)	Edged and Pointed Weapons	Strangulation (Manual and Ligature)	All Others
1994	179	135	75.42	9	15	15	5
1995	166	108	65.06	21	23	5	9
1996	144	93	64.58	22	15	5	9
1997	120	70	58.33	24	11	7	8
1998	123	76	61.79	23	7	5	12
1999	106	72	67.92	20	7	4	3
2000	100	56	56.00	15	16	3	10
2001	110	69	62.73	24	9	4	4
2002	117	65	55.56	18	20	4	10
2003	113	60	53.10	18	21	3	11
2004	108	71	65.74	13	11	4	9
2005	147	92	62.59	23	12	4	16
2006	146	101	69.18	19	15	2	9
2007	174	121	69.54	23	22	0	8
2008	124	85	68.55	18	10	2	9
2009	147	88	59.86	22	15	9	13
2010	98	67	68.37	9	8	7	7
2011	120	89	74.17	9	13	0	9
2012	143	100	69.93	24	9	7	3
2013	137	95	69.34	12	12	7	11
2014	140	105	75.00	14	12	2	7
2015	163	132	80.98	16	10	2	3
2016	189	150	79.37	25	8	2	4
2017	189	150	79.37	25	8	2	4
2018	188	132	70.21	33	14	2	7

2018 SUICIDES

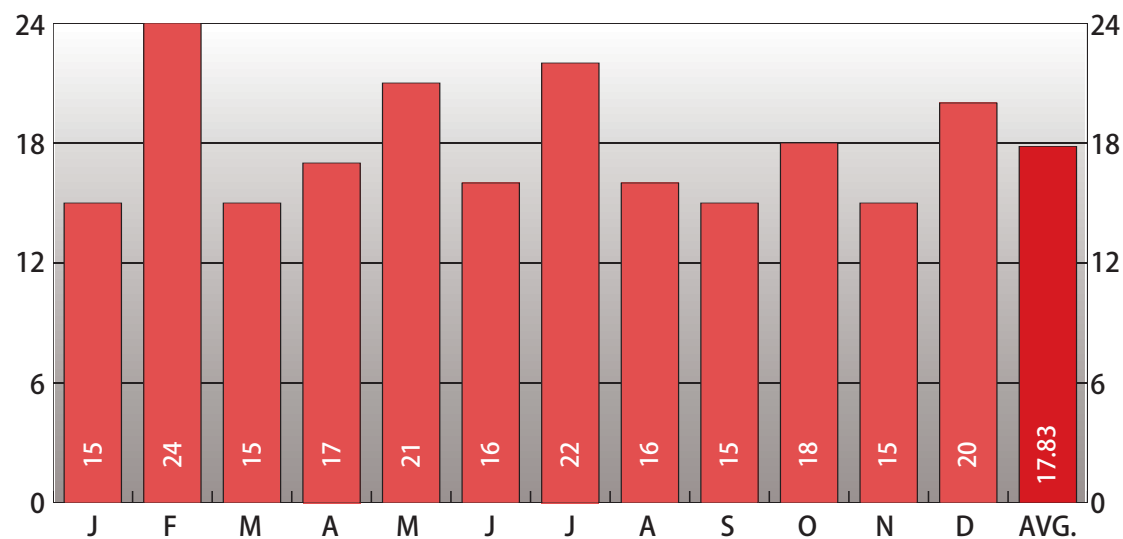
FOR A PERIOD OF TEN YEARS



2018
TOTAL CASES
214

2018 SUICIDES

BY MONTH FOR THE YEAR 2018



		Number	Percent
Gender	Male	161	75.23%
	Female	53	24.77%
Race	White	181	84.58%
	Black	33	15.42%
Ethnicity	Hispanic	7	3.27%
	Non-Hispanic	207	96.73%
Ethanol	Tested	182	85.05%
	Positive	67	31.31%
Autopsied		176	82.24%

DISTRIBUTION OF SUICIDES BY CITY*



***18 cases are from outside of Cuyahoga County.**

Cities			
Cleveland	65	Maple Heights	2
Bay Village	1	Mayfield Heights	3
Beachwood	1	Middleburg Heights	4
Bedford	2	North Olmsted	4
Bedford Heights	1	North Royalton	7
Berea	4	Olmsted Falls	3
Brecksville	1	Parma	15
Broadview Heights	3	Parma Heights	1
Brooklyn	1	Pepper Pike	1
Brook Park	2	Richmond Heights	1
Cleveland Heights	6	Rocky River	2
East Cleveland	3	Seven Hills	1
Euclid	11	Shaker Heights	4
Fairview Park	6	Solon	0
Garfield Heights	5	South Euclid	5
Highland Heights	2	Strongsville	8
Independence	2	University Heights	1
Lakewood	8	Warrensville Heights	0
Lyndhurst	0	Westlake	3
Villages			
Bentleyville	0	Mayfield Village	1
Bratenahl	0	Moreland Hills	0
Brooklyn Heights	0	Newburgh Heights	0
Cuyahoga Heights	0	North Randall	0
Gates Mills	0	Oakwood Village	2
Glenwillow	0	Orange Village	0
Highland Hills	0	Valley View	0
Hunting Valley	1	Walton Hills	0
Linndale	0	Woodmere	0
Townships			
Chagrin Falls	0	Olmsted Township	3

TABLE 59

MONTHLY ETHANOL INCIDENCE

												Not Tested		Tested						Stages													
																				Total		Cleveland		County		Out of County		Unknown		Total		Negative	
Month	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Jan.	15	10	5	4	1	6	3	0	1	0	0	1	1	9	4	5	2	4	2	0	0	1	1	2	1	1	0	0	0	0	0	0	
Feb.	24	21	3	5	1	13	1	3	1	0	0	5	1	16	2	8	0	8	2	2	0	3	0	0	0	0	2	1	0	1	0	1	0
Mar.	15	13	2	3	1	8	1	2	0	0	0	3	1	10	1	7	1	3	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0
Apr.	17	11	6	5	2	6	3	0	1	0	0	1	0	10	6	6	4	4	2	1	1	2	1	0	0	0	0	0	0	0	0	1	0
May	21	13	8	2	3	11	5	0	0	0	0	0	3	13	5	8	3	5	2	2	0	1	0	1	0	1	1	0	1	0	0	0	0
Jun.	16	15	1	4	0	11	0	0	1	0	0	1	1	14	0	9	0	5	0	2	0	0	0	1	0	1	0	1	0	0	0	0	0
July	22	18	4	6	1	11	3	1	0	0	0	3	0	15	4	12	1	3	3	1	2	1	0	0	0	0	0	1	0	0	0	0	1
Aug.	16	11	5	4	0	7	4	0	1	0	0	1	0	10	5	7	4	3	1	1	0	1	0	0	0	1	1	0	0	0	0	0	0
Sept.	15	11	4	3	2	5	2	3	0	0	0	2	1	9	3	5	1	4	2	2	0	2	0	0	0	0	2	0	0	0	0	0	0
Oct.	18	15	3	3	1	11	1	1	1	0	0	1	1	14	2	10	2	4	0	1	0	0	0	0	0	1	0	1	0	0	0	1	0
Nov.	15	9	6	1	2	8	4	0	0	0	0	1	1	8	5	7	5	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec.	20	14	6	9	2	4	3	1	1	0	0	2	1	12	5	7	1	5	4	0	1	0	0	2	0	0	1	2	1	1	1	0	0
Total	214	161	53	49	16	101	30	11	7	0	0	21	11	140	42	91	24	49	18	14	4	11	2	6	1	6	7	7	2	2	1	3	1

2018 SUICIDES

AGE - RACE - ETHNICITY - ETHANOL INCIDENCE

TABLE 60

					Not Tested		Tested						Stages													
							Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Age	Race	Total	Hispanic	Non-Hispanic	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9 and Under	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 - 14	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 - 19	White	7	0	7	2	1	3	1	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	4	0	4	1	0	2	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
20 - 24	White	9	0	9	1	1	7	0	4	0	3	0	0	0	2	0	0	0	0	0	0	1	0	0	1	0
	Black	6	0	6	1	1	3	1	3	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
25 - 29	White	19	2	17	2	0	12	5	6	2	6	3	2	0	2	1	1	0	0	1	1	0	0	0	0	1
	Black	2	0	2	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 - 34	White	15	1	14	2	0	11	2	6	0	5	2	1	0	2	0	2	1	0	0	0	0	0	1	0	0
	Black	2	0	2	0	0	2	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
35 - 39	White	13	1	12	0	0	10	3	7	0	3	3	0	0	0	0	1	0	0	3	1	0	0	0	1	0
	Black	5	0	5	0	1	4	0	3	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
40 - 44	White	17	1	16	0	1	14	2	7	1	7	1	2	0	2	0	0	0	2	0	0	1	0	0	1	0
	Black	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 - 49	White	8	0	8	0	0	7	1	5	1	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
	Black	4	0	4	0	0	3	1	2	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 60

AGE - RACE - ETHNICITY - ETHANOL INCIDENCE (continued)

					Not Tested		Tested						Stages													
							Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Age	Race	Total	Hispanic	Non-Hispanic	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
50 - 54	White	15	0	15	1	1	8	5	2	3	6	2	0	2	0	0	1	0	1	0	3	0	1	0	0	0
	Black	1	0	1	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
55 - 59	White	18	2	16	3	2	10	3	8	2	2	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0
	Black	1	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60 - 64	White	17	0	17	1	0	10	6	7	4	3	2	2	1	0	0	0	0	0	1	1	0	0	0	0	0
	Black	3	0	3	0	0	1	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65 - 69	White	19	0	19	1	3	11	4	8	3	3	1	2	0	0	0	0	0	1	1	0	0	0	0	0	0
	Black	2	0	2	0	0	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
70 - 74	White	8	0	8	1	0	4	3	4	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 - 79	White	11	0	11	3	0	6	2	4	2	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 and Over	White	4	0	4	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	White	180	7	173	17	9	117	37	75	20	42	17	13	3	8	2	5	1	5	7	7	2	1	1	3	1
	Black	33	0	33	4	2	22	5	15	4	7	1	1	1	3	0	1	0	1	0	0	0	1	0	0	0
Grand Total		213	7	206	21	11	139	42	90	24	49	18	14	4	11	2	6	1	6	7	7	2	2	1	3	1

2018 SUICIDES

MODE - ETHANOL INCIDENCE

TABLE 61

												Not Tested		Tested								Stages															
																						Total		Cleveland		County		Out of County		Unknown		Total		Negative		Positive	
Mode	Total	M	F	M	F	M	F	M	F	M	F			M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
Asphyxia	67	50	17	18	7	29	8	3	2	0	0	5	4	45	13	28	4	17	9	5	1	4	1	3	1	2	5	2	0	0	1	1	0				
Carbon Monoxide	2	2	0	0	0	1	0	1	0	0	0	0	0	2	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0				
Cutting and Stabbing	3	2	1	0	0	2	1	0	0	0	0	0	0	2	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0				
Jumping	11	10	1	3	0	5	1	2	0	0	0	0	0	10	1	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Others*	4	3	1	0	1	3	0	0	0	0	0	0	0	3	1	1	0	2	1	0	0	1	0	0	0	0	0	1	1	0	0	0	0				
Poisoning	27	6	21	1	5	4	13	1	3	0	0	2	4	4	17	3	12	1	5	0	2	0	1	1	0	0	1	0	1	0	0	0	0				
Shooting	100	88	12	27	3	57	7	4	2	0	0	14	3	74	9	47	6	27	3	8	1	6	0	2	0	4	1	3	0	2	0	2	1				
Total	214	161	53	49	16	101	30	11	7	0	0	21	11	140	42	91	24	49	18	14	4	11	2	6	1	6	7	7	2	2	1	3	1				

* Includes: Burning; and Train-Pedestrian

TABLE 62

MODE* - ETHANOL INCIDENCE

												Not Tested		Tested						Stages													
																				Total		Cleveland		County		Out of County		Unknown		0.01% - 0.04%		0.05% - 0.08%	
Mode	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Asphyxia:																																	
Drowning	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Hanging	64	48	16	17	7	28	7	3	2	0	0	5	3	43	13	27	4	16	9	4	1	4	1	3	1	2	5	2	0	0	1	1	0
Plastic Bag	1	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	66	49	17	18	7	28	8	3	2	0	0	5	4	44	13	28	4	16	9	4	1	4	1	3	1	2	5	2	0	0	1	1	0
Carbon Monoxide:																																	
Auto Exhaust	2	2	0	0	0	1	0	1	0	0	0	0	0	2	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Charcoal Grill	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	3	3	0	0	0	2	0	1	0	0	0	0	0	3	0	1	0	2	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
Jumping:																																	
Bridge	5	4	1	1	0	3	1	0	0	0	0	0	0	4	1	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Building	5	5	0	1	0	2	0	2	0	0	0	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Window	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	11	10	1	3	0	5	1	2	0	0	0	0	0	10	1	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

* Does not include Cutting and Stabbing, Poisoning, and Shooting deaths.

												Not Tested		Tested						Stages													
														Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Poisoning	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Single Chemical Agent: Cyanide	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Diphenhydramine	2	0	2	0	0	0	2	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Methanol	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Opiate	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Oxycodone	2	0	2	0	0	0	2	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Potassium Hydroxide	1	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Unspecified Drug	1	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Two or More Chemical Agents: Acetaminophen, Clonazepam, Hydrocodone, Hydroxyzine, Oxycodone, Tizanidine, Trazodone, Zolpidem	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Acetaminophen, Cyclobenzaprine, Hydrocodone, Metaxalone, Nordiazepam, Zolpidem	1	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Alprazolam, Amlodipine, Metoprolol, Mirtazapine, Propranolol, Trazodone	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Alprazolam, Fentanyl, Hydroxyzine, Methadone	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Alprazolam, Morphine	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0		
Amitriptyline, Clonazepam, Cyclobenzaprine, Nortriptyline	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Amitriptyline, Diazepam, Oxazepam, Temazepam	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0		
Benzodiazepines, Opiate	1	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Cocaine, Venlafaxine	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0		
Codeine, Oxycodone	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Cyclobenzaprine, Hydrocodone	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Doxepin, Haloperidol, Hydroxyzine, Lamotrigine, Levetiracetam	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Lithium, Metoprolol	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Tramadol, Trazodone	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Combined Effects of Ethanol & Single/Multiple Chemical Agents: 3, 4-Methylenedioxymethamphetamine, Alprazolam, Cocaine, Oxycodone	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0		
Alprazolam	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0		
Citalopram	1	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Diphenhydramine	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0		
Total	27	6	21	1	5	4	13	1	3	0	0	2	4	4	17	3	12	1	5	0	2	0	1	1	0	0	1	0	1	0	0		

TABLE 64

MODE - AGE GROUPS

Mode	9 and Under		10-14		15-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80 and Over		Total		Grand Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
Asphyxia	0	0	0	0	2	1	1	3	6	3	3	2	7	3	6	0	6	1	4	0	4	2	7	0	3	2	0	0	1	0	0	0	50	17	67
Carbon Monoxide	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0	2	
Cutting and Stabbing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	0	2	1	3
Jumping	0	0	0	0	0	0	1	0	0	0	1	0	1	0	1	0	1	0	0	0	1	0	1	0	2	0	0	0	0	1	1	0	10	1	11
Others*	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	4
Poisoning	0	0	0	0	0	2	0	0	0	0	1	0	1	0	0	1	1	1	1	6	0	3	2	3	0	2	0	2	0	1	0	0	6	21	27
Shooting	0	0	1	0	6	0	10	0	9	2	9	0	5	1	7	1	3	0	5	0	8	0	0	4	9	3	5	1	7	0	4	0	88	12	100
Total	0	0	1	0	8	3	12	3	16	5	15	2	14	4	15	3	11	2	10	6	14	5	12	8	14	7	5	3	9	2	5	0	161	53	214

* Includes: Burning; and Train-Pedestrian

2018 SUICIDES

MODE, GEOGRAPHICAL LOCATION AND MARITAL STATUS

TABLE 65

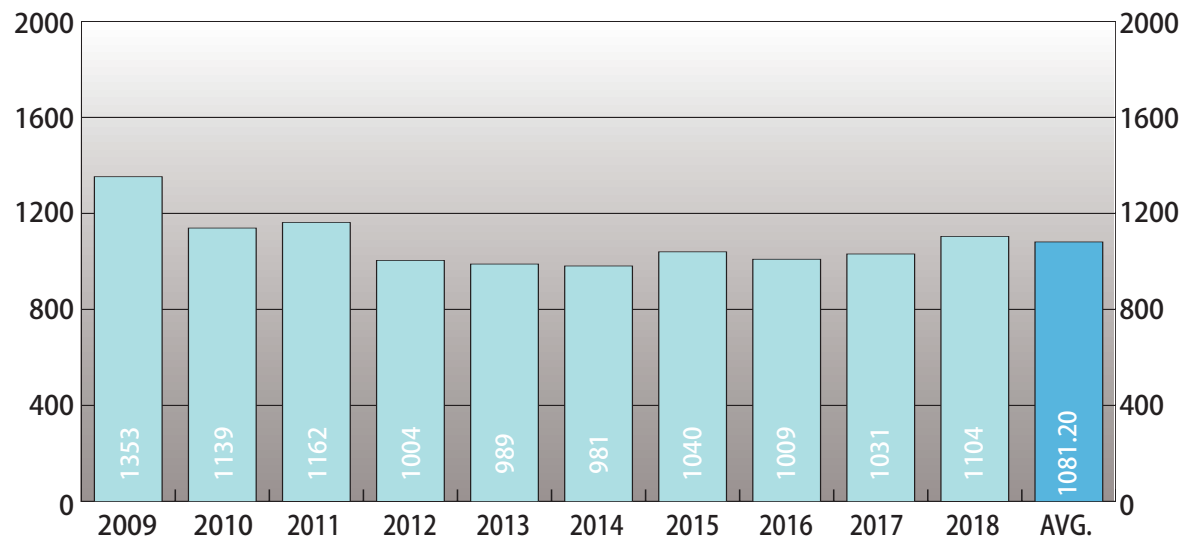
	Cleveland												County												Out of County												Unknown														Grand Total
	Married		Single		Widowed		Divorced		Unknown		Total		Married		Single		Widowed		Divorced		Unknown		Total		Married		Single		Widowed		Divorced		Unknown		Total		Total														
Mode	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F													
Asphyxia	2	1	11	5	1	0	4	1	0	0	18	7	10	4	13	4	0	0	6	0	0	0	29	8	1	1	2	1	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0							
Carbon Monoxide	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Cutting and Stabbing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
Jumping	0	0	3	0	0	0	0	0	0	0	3	0	1	0	3	0	0	1	1	0	0	0	5	1	0	0	1	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0						
Other*	0	1	0	0	0	0	0	0	0	0	0	1	0	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
Poisoning	1	1	0	1	0	1	0	2	0	0	1	5	1	4	3	4	0	0	0	5	0	0	4	13	0	1	0	1	0	0	1	1	0	0	1	3	0	0	0	0	0	0	0	0	0	0					
Shooting	3	1	15	1	3	0	6	1	0	0	27	3	18	1	25	4	4	2	10	0	0	0	57	7	0	1	3	0	0	0	1	1	0	0	4	2	0	0	0	0	0	0	0	0	0	0					
Total	6	4	29	7	4	1	10	4	0	0	49	16	30	9	50	13	4	3	17	5	0	0	101	30	2	3	6	2	0	0	3	2	0	0	11	7	0	0	0	0	0	0	0	0	0	0					

* Includes: Burning; and Train-Pedestrian



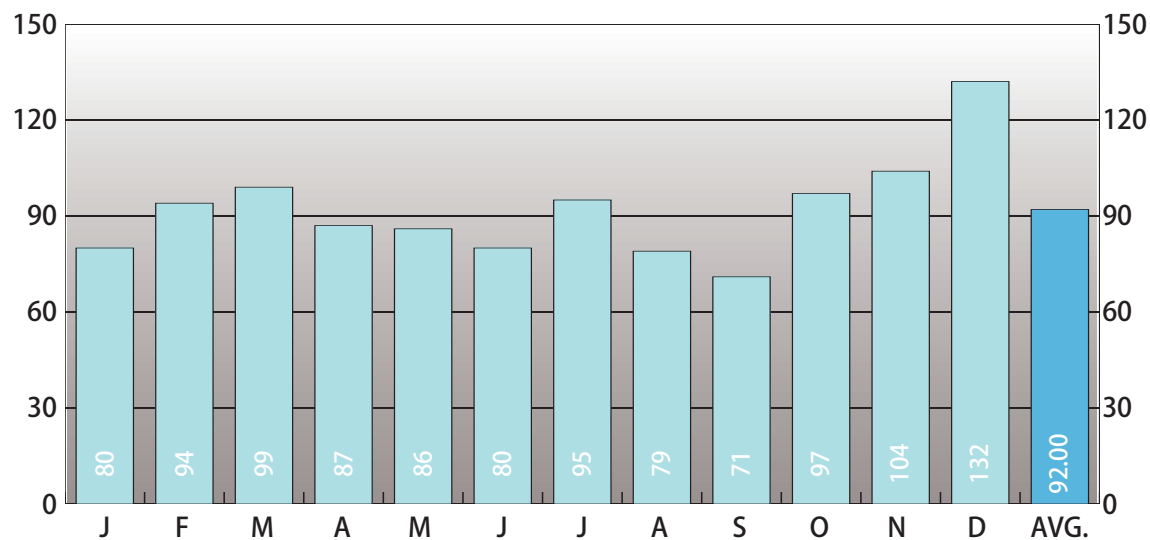
Photograph by J. Bielinski

2018 DEATHS FROM NATURAL CAUSES FOR A PERIOD OF TEN YEARS



2018
TOTAL CASES
1,104

2018 DEATHS FROM NATURAL CAUSES BY MONTH FOR THE YEAR 2018



		Number	Percent
Gender	Male	687	62.23%
	Female	417	37.77%
Race	White	739	66.94%
	Black	356	32.25%
	American Indian or Alaskan Native	1	0.09%
	Asian	4	0.36%
	Asian Indian	4	0.36%
	Hispanic	20	1.81%
Ethnicity	Non-Hispanic	1084	98.19%
	Tested	490	44.38%
Ethanol	Positive	148	13.41%
Autopsied		431	39.04%

2018 DEATHS FROM NATURAL CAUSES
MONTHLY ETHANOL INCIDENCE

TABLE 66

Month	Total	Total		Not Tested		Tested						Stages													
						Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Jan.	80	56	24	29	15	27	9	20	6	7	3	2	2	0	0	1	1	3	0	1	0	0	0	0	0
Feb.	94	62	32	25	23	37	9	25	7	12	2	3	2	5	0	1	0	2	0	0	0	0	0	1	0
Mar.	99	64	35	36	23	28	12	18	11	10	1	4	0	2	0	1	1	0	0	1	0	1	0	1	0
Apr.	87	51	36	23	21	28	15	18	11	10	4	2	1	2	1	2	0	1	1	0	0	0	0	3	1
May	86	53	33	28	19	25	14	15	14	10	0	7	0	1	0	1	0	1	0	0	0	0	0	0	0
Jun.	80	56	24	25	16	31	8	20	8	11	0	5	0	1	0	1	0	3	0	1	0	0	0	0	0
July	95	55	40	26	26	29	14	22	9	7	5	5	4	1	0	0	1	0	0	1	0	0	0	0	0
Aug.	79	54	25	26	16	28	9	17	6	11	3	5	2	1	1	4	0	0	0	0	0	0	0	1	0
Sept.	71	37	34	20	23	17	11	12	10	5	1	2	0	1	0	0	0	0	1	1	0	1	0	0	0
Oct.	97	57	40	25	26	32	14	23	13	9	1	3	0	2	1	1	0	1	0	1	0	1	0	0	0
Nov.	104	55	49	35	33	20	16	11	13	9	3	5	3	2	0	1	0	0	0	0	0	1	0	0	0
Dec.	132	87	45	45	30	42	15	23	10	19	5	7	3	4	1	3	0	0	0	2	1	2	0	1	0
Total	1104	687	417	343	271	344	146	224	118	120	28	50	17	22	4	16	3	11	2	8	1	6	0	7	1

2018 DEATHS FROM NATURAL CAUSES

AGE - RACE - ETHNICITY - ETHANOL INCIDENCE

TABLE 67

					Not Tested		Tested						Stages													
			Ethnicity				Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Age	Race	Total	Hispanic	Non-Hispanic	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Under 1 Year	White	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	6	0	6	1	0	4	1	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 - 4	White	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	3	0	3	0	0	1	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 - 9	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 - 14	White	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 - 19	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 - 24	White	4	0	4	0	1	2	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	4	0	4	1	0	2	1	0	1	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 67

AGE - RACE - ETHNICITY - ETHANOL INCIDENCE (continued)

Age	Race	Total	Ethnicity		Not Tested		Tested						Stages													
							Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
			Hispanic	Non-Hispanic	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
25 - 29	White	5	0	5	1	0	2	2	1	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	8	0	8	0	2	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 - 34	White	11	1	10	3	1	2	5	1	4	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
	Black	8	0	8	0	0	6	2	5	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 - 39	White	14	0	14	2	2	8	2	2	1	6	1	2	1	1	0	0	0	1	0	1	0	1	0	0	0
	Black	13	0	13	2	0	7	4	6	2	1	2	0	1	0	0	1	1	0	0	0	0	0	0	0	0
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 - 44	White	25	1	24	4	4	10	7	5	5	5	2	1	1	1	0	0	0	0	1	1	0	0	0	2	0
	Black	12	0	12	0	1	9	2	6	2	3	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 - 49	White	36	3	33	6	3	17	10	10	7	7	3	2	3	2	0	1	0	0	0	0	0	1	0	1	0
	Black	20	0	20	2	3	8	7	4	6	4	1	2	1	0	0	1	0	0	0	0	0	1	0	0	0
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 - 54	White	54	2	52	14	8	29	3	19	2	10	1	4	0	1	1	1	0	2	0	2	0	0	0	0	0
	Black	38	0	38	9	7	17	5	11	3	6	2	5	1	0	0	0	0	1	1	0	0	0	0	0	0
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

2018 DEATHS FROM NATURAL CAUSES

AGE - RACE - ETHNICITY - ETHANOL INCIDENCE (continued)

TABLE 67

Age	Race	Total	Ethnicity		Not Tested		Tested						Stages													
							Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
			Hispanic	Non-Hispanic	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
55 - 59	White	87	3	84	20	10	44	13	27	9	17	4	3	3	6	0	0	1	5	0	1	0	1	0	1	0
	Black	49	0	49	6	12	22	9	17	8	5	1	3	1	1	0	1	0	0	0	0	0	0	0	0	0
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	2	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60 - 64	White	112	1	111	43	9	42	18	29	13	13	5	4	2	3	1	4	1	1	0	1	1	0	0	0	0
	Black	55	0	55	19	8	20	8	12	6	8	2	2	2	1	0	2	0	1	0	0	0	1	0	1	0
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	2	0	2	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65 - 69	White	92	2	90	32	25	25	10	11	9	14	1	6	1	3	0	2	0	0	0	1	0	1	0	1	0
	Black	45	0	45	18	9	14	4	11	4	3	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 - 74	White	74	1	73	31	20	16	7	10	6	6	1	5	0	1	1	0	0	0	0	0	0	0	0	0	0
	Black	31	1	30	16	8	5	2	3	2	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 - 79	White	59	1	58	19	28	7	5	5	5	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	26	0	26	12	6	6	2	5	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	American Indian or Alaskan Native	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 and Over	White	162	1	161	62	82	9	9	8	9	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	35	0	35	11	17	5	2	4	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0
	American Indian or Alaskan Native	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	2	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 67

AGE - RACE - ETHNICITY - ETHANOL INCIDENCE (continued)

Age	Race	Total	Ethnicity		Not Tested		Tested						Stages													
							Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
			Hispanic	Non-Hispanic	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Total	White	739	18	721	239	195	213	92	130	73	83	19	31	11	19	3	8	2	9	1	7	1	4	0	5	0
	Black	356	2	354	98	74	130	54	93	45	37	9	19	6	3	1	8	1	2	1	1	0	2	0	2	0
	American Indian or Alaskan Native	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian	4	0	4	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Asian Indian	4	0	4	3	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total		1,104	20	1,084	343	271	344	146	224	118	120	28	50	17	22	4	16	3	11	2	8	1	6	0	7	0

2018 DEATHS FROM NATURAL CAUSES

INTERNATIONAL CODE OF CAUSES OF DEATH LISTED BY MONTH

TABLE 68

Classification of Disease by Code	Jan.		Feb.		Mar.		Apr.		May		Jun.		Jul.		Aug.		Sept.		Oct.		Nov.		Dec.		Total		Grand Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Certain Conditions Originating in the Perinatal Period	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	1	2	3
Complications of Pregnancy, Childbirth and the Puerperium	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Congenital Anomalies	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3	0	3
Diseases of the Blood and Blood-Forming Organs	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2	2	4
Diseases of the Circulatory System	45	13	44	23	47	24	38	28	45	23	42	15	42	32	44	16	26	28	49	30	40	37	64	31	526	300	826
Diseases of the Digestive System	0	0	0	1	0	1	2	0	1	0	2	0	0	0	0	1	1	0	2	0	0	0	2	1	10	4	14
Diseases of the Genitourinary System	0	0	0	1	0	0	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	0	1	4	5
Diseases of the Musculoskeletal System and Connective Tissue	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
Diseases of the Nervous System and Sense Organs	0	0	1	0	1	2	0	1	0	1	0	0	1	0	0	0	1	1	0	1	0	2	1	0	5	8	13
Diseases of the Respiratory System	4	2	4	2	4	4	2	1	3	1	1	2	1	3	1	0	3	2	1	2	4	1	5	2	33	22	55
Diseases of the Skin and Subcutaneous Tissue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1
Endocrine, Nutritional and Metabolic Diseases and Immunity Disorders	0	1	2	2	1	1	1	0	0	1	0	2	0	0	4	1	1	0	3	2	2	2	3	0	17	12	29
Infectious and Parasitic Diseases	0	0	0	1	1	0	0	1	1	1	0	0	2	0	0	0	0	0	0	0	1	2	0	0	5	5	10
Mental Disorders*	5	1	8	1	8	1	4	2	2	4	6	1	5	2	3	4	2	1	1	3	3	1	5	6	52	27	79
Neoplasms	1	4	2	1	1	0	1	2	0	0	4	1	2	1	1	2	2	1	1	0	2	1	3	4	20	17	37
Symptoms, Signs and Ill-Defined Conditions	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	2	1	4	6	10
Therapeutic Complications	0	1	0	0	0	0	1	1	1	1	0	1	0	0	0	1	0	0	0	1	2	0	2	0	6	6	12
Total	56	24	62	32	64	35	51	36	53	33	56	24	55	40	54	25	37	34	57	40	55	49	87	45	687	417	1,104

* In Mental Disorders 66 were due to alcoholism. (Alcoholism with associated physical disease totaled 54).

2018 AUTOPSIES - DEATHS FROM NATURAL CAUSES

TABLE 69

INTERNATIONAL CODE OF CAUSES OF DEATH LISTED BY MONTH

Classification of Disease by Code	Jan.		Feb.		Mar.		Apr.		May		Jun.		Jul.		Aug.		Sept.		Oct.		Nov.		Dec.		Total		Grand Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Certain Conditions Originating in the Perinatal Period	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	1	2	3
Complications of Pregnancy, Childbirth and the Puerperium	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Congenital Anomalies	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
Diseases of the Blood and Blood-Forming Organs	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2	1	3
Diseases of the Circulatory System	17	3	17	6	22	8	14	8	14	6	18	3	16	7	17	5	12	7	19	6	10	9	22	8	198	76	274
Diseases of the Digestive System	0	0	0	0	0	1	2	0	1	0	2	0	0	0	0	1	1	0	2	0	0	0	1	1	9	3	12
Diseases of the Genitourinary System	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	2	2
Diseases of the Nervous System and Sense Organs	0	0	1	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	3	2	5
Diseases of the Respiratory System	1	2	3	0	2	1	1	1	2	1	1	1	1	2	0	0	2	1	0	2	3	0	3	1	19	12	31
Endocrine, Nutritional and Metabolic Diseases and Immunity Disorders	0	1	1	1	1	0	1	0	0	1	0	1	0	0	2	1	1	0	0	2	2	1	2	0	10	8	18
Infectious and Parasitic Diseases	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2	3
Mental Disorders*	3	1	7	1	7	1	3	2	1	4	5	0	3	1	2	3	1	1	0	2	2	1	5	4	39	21	60
Neoplasms	0	1	2	0	0	0	0	1	0	0	1	0	1	0	0	1	0	0	1	0	0	0	1	1	6	4	10
Symptoms, Signs and Ill-Defined Conditions	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	2	4
Therapeutic Complications	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3
Total	22	9	32	8	33	12	24	13	18	15	28	7	24	12	22	11	17	10	22	12	18	13	34	15	294	137	431

* In Mental Disorders 54 were due to alcoholism. (Alcoholism with associated physical disease totaled 42).

2018 DEATHS FROM NATURAL CAUSES

MONTH AND AGE GROUPS

TABLE 70

Age	Jan.		Feb.		Mar.		Apr.		May		Jun.		Jul.		Aug.		Sept.		Oct.		Nov.		Dec.		Total		Grand Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Under 1 Year	1	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	2	0	0	0	0	0	1	0	5	2	7
1-4	0	1	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	2	3	5
5-9	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
10-14	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
15-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1
20-24	0	0	1	0	0	0	0	1	1	0	0	1	0	0	1	0	1	0	0	0	1	1	0	0	5	3	8
25-29	1	0	0	1	0	1	1	0	0	1	0	1	1	1	0	2	0	0	0	0	1	0	2	0	6	7	13
30-34	1	0	1	1	1	0	2	1	0	2	1	0	0	0	2	1	1	0	0	2	1	1	1	0	11	8	19
35-39	2	1	2	0	2	0	3	0	0	0	2	0	1	4	2	0	1	1	2	0	2	2	1	0	20	8	28
40-44	0	0	3	3	3	3	1	2	3	0	2	2	1	1	3	0	1	1	4	1	1	1	1	0	23	14	37
45-49	0	0	5	0	2	1	3	3	0	2	5	0	4	5	3	2	4	2	2	3	2	2	3	3	33	23	56
50-54	6	0	5	0	7	1	5	3	7	6	4	0	9	0	4	4	2	3	5	3	9	2	6	1	69	23	92
55-59	7	3	13	4	7	5	3	3	8	4	9	2	9	4	6	1	5	3	7	3	5	8	15	4	94	44	138
60-64	11	4	13	6	15	4	12	4	9	4	9	2	6	0	9	3	3	1	9	2	10	6	20	7	126	43	169
65-69	7	4	7	3	4	4	10	2	12	3	8	5	7	5	7	2	7	7	7	7	4	4	9	2	89	48	137
70-74	8	3	4	6	5	3	6	2	4	2	6	2	8	2	4	1	3	0	7	4	8	5	5	7	68	37	105
75-79	3	2	3	2	7	6	2	2	1	4	3	1	5	5	3	2	3	2	1	4	6	6	7	5	44	41	85
80 and Over	9	5	4	6	10	6	3	12	8	5	6	8	3	11	9	7	4	14	12	11	6	11	15	16	89	112	201
Total	56	24	62	32	64	35	51	36	53	33	56	24	55	40	54	25	37	34	57	40	55	49	87	45	687	417	1104

2018 AUTOPSIES - DEATHS FROM NATURAL CAUSES

TABLE 71

MONTH AND AGE GROUPS

Age	Jan.		Feb.		Mar.		Apr.		May		Jun.		Jul.		Aug.		Sept.		Oct.		Nov.		Dec.		Total		Grand Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Under 1 Year	1	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	2	0	0	0	0	0	1	0	5	2	7
1-4	0	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	3	4
5-9	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
10-14	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
15-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1
20-24	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	4	2	6
25-29	1	0	0	1	0	1	1	0	0	1	0	0	1	1	0	2	0	0	0	0	1	0	1	0	5	6	11
30-34	1	0	1	1	1	0	2	1	0	2	1	0	0	0	2	1	1	0	0	1	1	0	0	0	10	6	16
35-39	2	1	2	0	2	0	2	0	0	0	2	0	0	2	2	0	1	1	2	0	1	1	0	0	16	5	21
40-44	0	0	3	2	3	2	1	2	2	0	2	1	1	1	3	0	1	1	1	1	0	1	1	0	18	11	29
45-49	0	0	4	0	1	0	2	3	0	2	2	0	3	4	2	1	2	1	1	2	2	2	3	3	22	18	40
50-54	5	0	3	0	5	1	1	0	3	2	3	0	5	0	3	2	2	2	3	1	4	1	3	0	40	9	49
55-59	3	1	7	2	3	2	2	1	4	3	5	1	5	1	5	0	3	1	4	2	2	1	7	2	50	17	67
60-64	4	2	3	1	7	1	5	1	3	3	4	1	1	0	2	2	1	1	3	2	3	2	8	4	44	20	64
65-69	1	2	4	0	1	1	4	0	3	0	4	1	3	1	1	1	1	2	2	1	2	1	6	1	32	11	43
70-74	2	0	1	0	3	1	2	0	2	1	2	0	3	0	1	0	2	0	2	0	1	3	1	3	22	8	30
75-79	0	0	1	0	4	2	1	1	0	1	0	1	1	0	1	1	0	0	0	0	1	0	2	1	11	7	18
80 and Over	2	1	1	1	2	0	1	2	0	0	2	2	0	0	0	1	0	1	3	2	0	0	0	1	11	11	22
Total	22	9	32	8	33	12	24	13	18	15	28	7	24	12	22	11	17	10	22	12	18	13	34	15	294	137	431

2018 DEATHS FROM NATURAL CAUSES

INTERNATIONAL CODE OF CAUSES OF DEATH LISTED BY AGE GROUPS

TABLE 72

Classification of Diseases by Code	Under 1 Year		1-4		5-9		10-14		15-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80 and Over		Total		Grand Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
Certain Conditions Originating in the Perinatal Period	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3
Complications of Pregnancy, Childbirth and the Puerperium	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Congenital Anomalies	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	3	0	3	
Diseases of the Blood and Blood-Forming Organs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	2	2	4	
Diseases of the Circulatory System	0	0	1	0	0	0	0	0	0	0	2	0	2	3	4	2	11	1	15	8	23	13	49	18	67	27	100	32	74	40	61	31	38	33	79	92	526	300	826
Diseases of the Digestive System	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	2	0	1	1	2	0	0	1	0	0	1	1	10	4	14
Diseases of the Genitourinary System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1	1	4	5	
Diseases of the Musculoskeletal System and Connective Tissue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	1	2
Diseases of the Nervous System and Sense Organs	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	1	1	1	0	1	0	1	0	1	0	0	0	3	5	8	13
Diseases of the Respiratory System	4	1	0	1	0	1	1	0	0	0	1	0	0	1	0	0	1	2	1	0	1	3	7	0	4	4	7	4	2	1	1	1	2	1	1	2	33	22	55
Diseases of the Skin and Subcutaneous Tissue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Endocrine, Nutritional and Metabolic Diseases and Immunity Disorders	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	1	1	1	4	3	1	1	0	3	2	3	1	1	1	1	0	0	0	1	0	17	12	29
Infectious and Parasitic Diseases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	3	0	1	0	0	2	0	1	0	0	0	5	5	10
Mental Disorders*	0	0	0	1	0	0	0	0	0	0	0	2	1	1	0	4	4	2	6	1	5	5	6	1	13	2	8	3	4	1	2	0	0	2	3	2	52	27	79
Neoplasms	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	2	1	1	4	5	0	4	1	1	1	2	2	3	7	20	17	37
Symptoms, Signs and Ill-Defined Conditions	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	1	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	2	4	6	10
Therapeutic Complications	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0	1	1	0	1	0	2	1	2	6	6	12
Total	5	2	2	3	0	1	2	0	1	0	5	3	6	7	11	8	20	8	23	14	33	23	69	23	94	44	126	43	89	48	68	37	44	41	89	112	687	417	1,104

* In Mental Disorders 66 were due to alcoholism. (Alcoholism with associated physical disease totaled 54)

TABLE 73

INTERNATIONAL CODE OF CAUSES OF DEATH LISTED BY AGE GROUPS

Classification of Diseases by Code	Under 1 Year		1-4		5-9		10-14		15-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80 and Over		Total		Grand Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
Certain Conditions Originating in the Perinatal Period	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	
Complications of Pregnancy, Childbirth and the Puerperium	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
Congenital Anomalies	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	2	
Diseases of the Blood and Blood-Forming Organs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2	1	3
Diseases of the Circulatory System	0	0	0	0	0	0	0	0	0	0	2	0	2	2	4	2	10	1	12	6	14	11	27	6	31	10	34	14	24	6	19	6	9	4	10	8	198	76	274
Diseases of the Digestive System	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	1	0	0	1	0	2	0	1	0	2	0	0	1	0	0	0	1	9	3	12	
Diseases of the Genitourinary System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	2	
Diseases of the Nervous System and Sense Organs	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0	0	3	2	5	
Diseases of the Respiratory System	4	1	0	1	0	1	1	0	0	0	1	0	0	1	0	0	1	1	1	0	1	1	4	0	2	3	4	2	0	1	0	0	0	0	0	0	19	12	31
Endocrine, Nutritional and Metabolic Diseases and Immunity Disorders	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	1	1	0	3	2	1	1	0	1	0	1	0	1	1	1	0	0	0	0	10	8	18	
Infectious and Parasitic Diseases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	1	2	3	
Mental Disorders*	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	4	3	1	5	1	5	4	5	1	11	2	3	3	4	1	2	0	0	1	0	0	39	21	60
Neoplasms	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	1	0	1	0	1	0	0	0	0	1	1	2	6	4	10	
Symptoms, Signs and Ill-Defined Conditions	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	2	4	
Therapeutic Complications	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	2	3	
Total	5	2	1	3	0	1	2	0	1	0	4	2	5	6	10	6	16	5	18	11	22	18	40	9	50	17	44	20	32	11	22	8	11	7	11	11	294	137	431

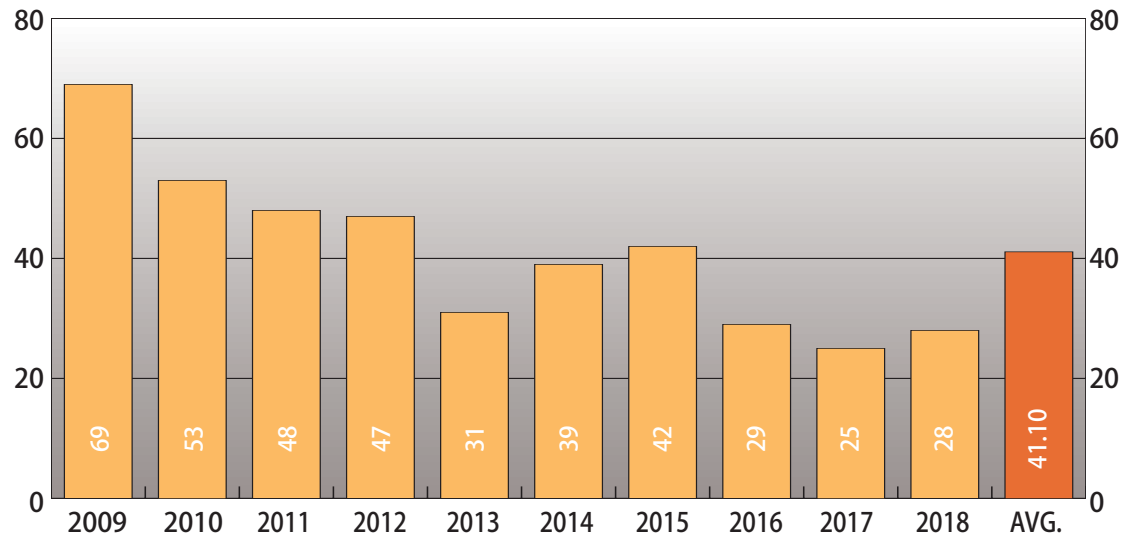
* In Mental Disorders 54 were due to alcoholism. (Alcoholism with associated physical disease totaled 42).

CUYAHOGA RIVER, INDEPENDENCE



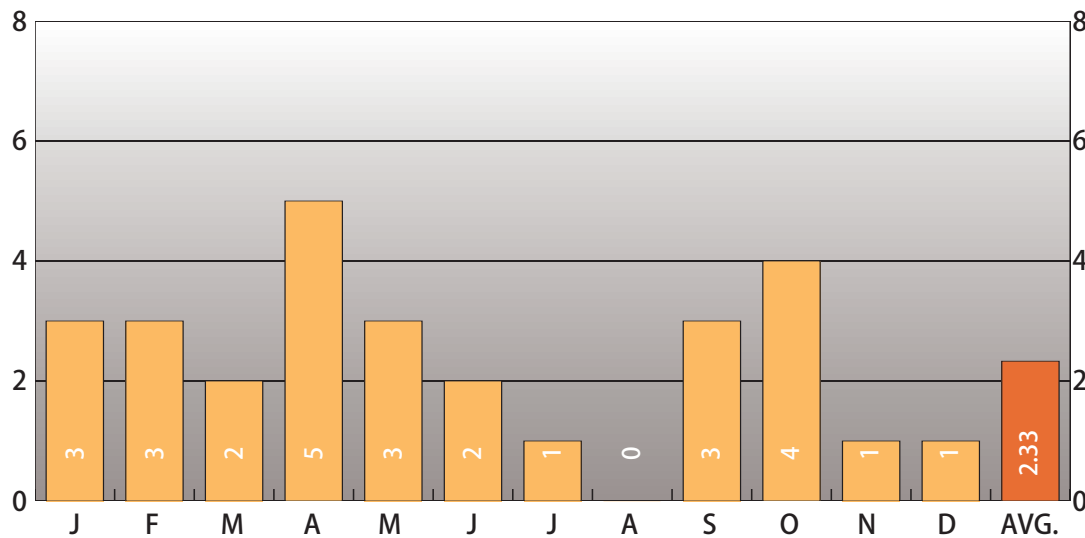
Photograph by J. Bielinski

2018 UNDETERMINED MANNER FOR A PERIOD OF TEN YEARS



2018
TOTAL CASES
28

2018 UNDETERMINED MANNER BY MONTH FOR THE YEAR 2018



		Number	Percent
Gender	Male	16	57.14%
	Female	12	42.86%
Race	White	15	53.57%
	Black	13	46.43%
Ethnicity	Hispanic	1	3.57%
	Non-Hispanic	27	96.43%
Ethanol	Tested	18	64.29%
	Positive	2	7.14%
Autopsied		26	92.86%

2018 UNDETERMINED MANNER
MONTHLY ETHANOL INCIDENCE

TABLE 74

				Not Tested		Tested						Stages													
						Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Month	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Jan.	3	3	0	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Feb.	3	1	2	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Mar.	2	2	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Apr.	5	1	4	1	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
May	3	2	1	0	1	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Jun.	2	2	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
July	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aug.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sept.	3	2	1	0	0	2	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0		
Oct.	4	1	3	1	1	0	2	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0		
Nov.	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Dec.	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total	28	16	12	6	4	10	8	9	7	1	1	0	1	0	0	0	0	0	0	1	0	0	0		

TABLE 75

AGE - RACE - ETHNICITY - ETHANOL INCIDENCE

					Not Tested		Tested						Stages													
			Ethnicity				Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Age	Race	Total	Hispanic	Non-Hispanic	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Under 1 Year	White	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	8	0	8	0	2	0	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 - 4	White	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	1	0	1	0	0	3	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 - 9	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 - 14	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	2	0	2	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 - 19	White	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 - 24	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 - 29	White	2	1	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 - 34	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 - 39	White	2	0	2	0	0	1	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	Black	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 - 44	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

2018 UNDETERMINED MANNER

AGE - RACE - ETHNICITY - ETHANOL INCIDENCE (continued)

TABLE 75

Age	Race	Total	Ethnicity		Not Tested		Tested						Stages													
							Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
			Hispanic	Non-Hispanic	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
45 - 49	White	1	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 - 54	White	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 - 59	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60 - 64	White	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65 - 69	White	3	0	3	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 - 74	White	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 - 79	White	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 and Over	White	2	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	White	15	1	14	3	2	6	4	5	3	1	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0
	Black	13	0	13	3	2	4	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total		28	1	27	6	4	10	8	9	7	1	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0

TABLE 76

MODE - ETHANOL INCIDENCE

				Not Tested		Tested						Stages													
						Total		Negative		Positive		0.01% - 0.04%		0.05% - 0.08%		0.09% - 0.14%		0.15% - 0.19%		0.20% - 0.24%		0.25% - 0.29%		0.30% or Over	
Mode	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Undetermined Cause	8	6	2	2	0	4	2	4	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Undetermined Non-Violence	9	3	6	1	2	2	4	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Undetermined Violence	11	7	4	3	2	4	2	3	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Total	28	16	12	6	4	10	8	9	7	1	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0

2018 UNDETERMINED MANNER

MODE - AGE GROUPS

TABLE 77

Mode	Under 1 Year		1-4		5-9		10-14		15-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80 and Over		Total		Grand Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
Undetermined Cause	2	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	8
Undetermined Non-Violence	2	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	6	9	
Undetermined Violence	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	2	1	0	1	0	0	1	1	7	4	11
Total	4	5	0	1	0	0	2	0	0	1	0	0	2	0	0	0	2	1	0	0	1	0	0	1	1	0	1	0	2	1	0	1	0	0	1	1	16	12	28

STEAMSHIP WILLIAM G. MATHER, VOINOVICH BICENTENNIAL PARK



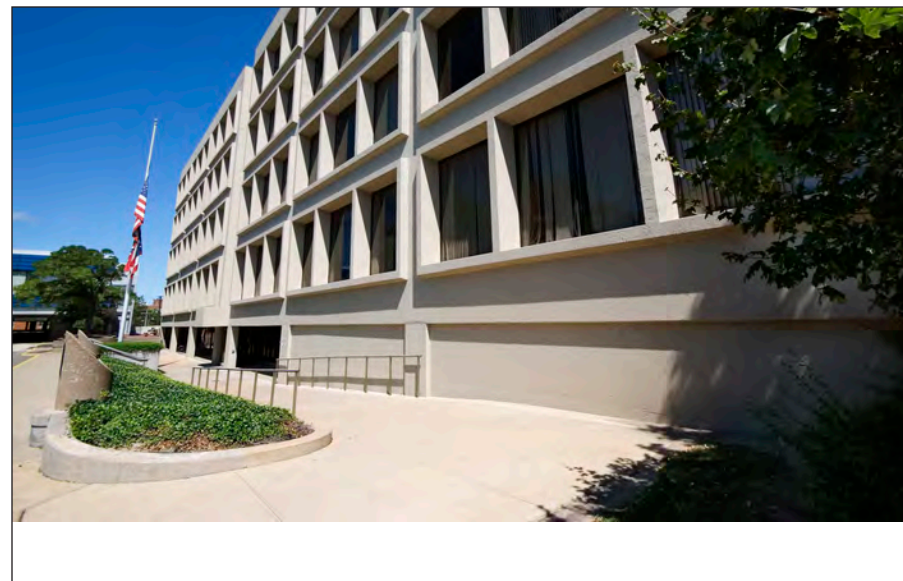
Photograph by J. Bielinski

2018 CUYAHOGA COUNTY MEDICAL EXAMINER'S ADMINISTRATION REPORT

The Cuyahoga County Medical Examiner's Office and Regional Forensic Science Laboratory is a unique working environment within county government and requires responsive and efficient administration to make it work properly. The highly scientific nature of the work provides a number of challenges. These are addressed by a hard working staff of dedicated professionals who prepare public and legal documents, procure supplies, address communications and technology issues, administrate fiscal and budgeting matters, human resource needs and building maintenance, security and cleanup.

Office of the Administrator

- Building Operations – Works with various vendors to maintain building, provide security and routine and specialized clean up needs.
- Community Relations & Training – Provides tours to interested medical and justice oriented students and professionals and training in death scene investigations for law enforcement and other justice oriented professionals.
- Fiscal & Budgeting Liaison – Work with assigned liaisons to develop biennial budget and monitor fiscal expenditures and revenues to assure adequate resources for the office and laboratory and maintaining responsible controls to protect taxpayer dollars.
- General Office / Records & Statistics – Works with Medical Secretaries and forensic pathologists to complete verdicts and with State of Ohio, funeral homes and Vital Statistics to complete death certificates. All records held on site and case statistics calculated and provided to public through reports. Several thousand public records requests are received and processed annually.
- Human Resources Liaison – Work with assigned liaisons to provide safe working environment for employees as well address any other workplace needs.



- Procurement – Works with specialized vendors to provide equipment and supplies for the scientific labs and medical work stations, as well as day-to-day supplies for the offices.
- Public Information & Media Relations – Provides media and general public with timely responses to public records requests. Over 1,500 media requests are received and processed annually.

Mission Statement

The Cuyahoga County Medical Examiner's Office is a public service agency responsible for the investigation of violent, suspicious and sudden and unexpected deaths and the provision of laboratory services. The agency is committed to the dignified and compassionate performance of these duties with impartiality and the highest professional levels of quality and timeliness in the service of the general public, medical and legal communities and the overall public health of the citizens of Cuyahoga County.

2018 CUYAHOGA COUNTY MEDICAL EXAMINER'S ADMINISTRATION REPORT

Goals

- Goal 1:** To complete fair and impartial death investigations in a manner consistent with the highest standards of excellence with increasing faster turn-around times for death certificates, autopsy reports and testing in the Regional Crime Laboratory.
- Goal 2:** Increase capacity of the Regional Crime Laboratory and add the most advanced scientific techniques and equipment to serve all Cuyahoga County justice and law enforcement agencies.



- Goal 3:** Become the most highly accredited Medical Examiner's office and public crime laboratory in the United States.
- Goal 4:** Provide the largest historical database of public health information in the United States for public research and scientific and epidemiological advancement.
- Goal 5:** Retain and recruit experienced, accredited and professionally licensed staff in all the various departments.

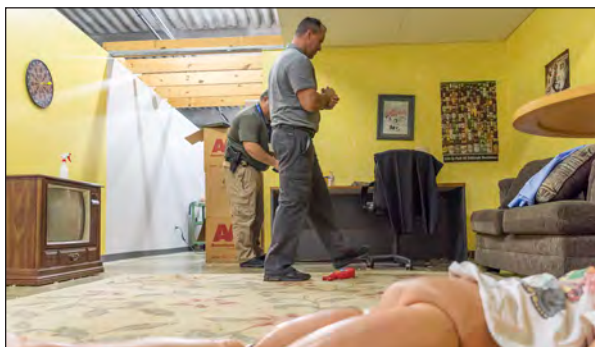
2018 Accomplishments

- Approached to provide drug chemistry services for the State of Ohio, State Highway Patrol. Pending approvals in 2019 to process up to 3,000 cases.
- ABFT and ACGME re-accreditation and NDIS approval. NAME restores full accreditation.
- Continued participation in opioid partnerships leads to first reduction in drug deaths in nearly a decade.
- Firearms lab work, supporting the crime gun initiative, sees a reduction in gun related deaths for second straight year (2%) and significant reductions in African American gun related deaths and gun related homicides (20+%).

2018 MEDICOLEGAL DEATH SCENE INVESTIGATION TRAINING PROGRAM

The Cuyahoga County Medical Examiner's Office and our educational partner, Case Western Reserve University School of Medicine, are proud to host a Medicolegal Death Scene Investigation program which provides basic training for Medicolegal Death Investigators, Coroners, Medical Examiners, Detectives, Crime Scene Investigators, Emergency Medical Service providers, and Firefighters.

This unique 3-day course covers fundamental topics of forensic pathology; examination and documentation of death scenes, evidence recognition, preservation and collection; and decedent identification. Participants enhance their knowledge by investigating dynamic mock scenes. The mock scenes are interactive and require participants to role play.



After attending this course, participants are able to...

- Define types of death that must be reported to the Coroner or Medical Examiner in Ohio.
- Distinguish types of trauma and explain the mechanisms of injury.
- Understand basic concepts used to distinguish entrance from exit gunshot wounds and determine range of fire.
- Describe investigative information that is important to the determination of cause and manner of death in cases of asphyxia, drowning, environmental exposure, in-cus-

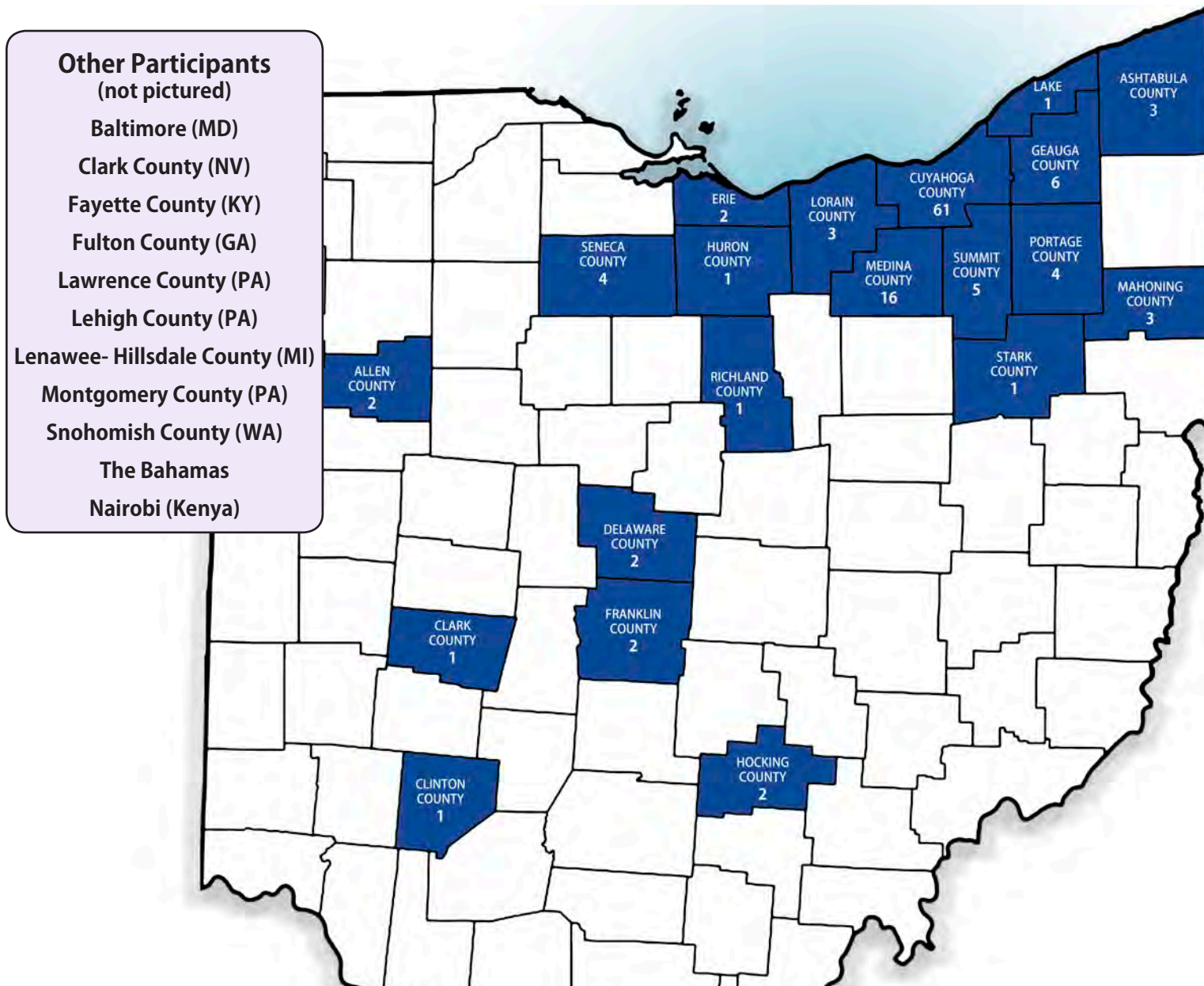
tody, sudden unexpected infant deaths, and intoxication.

- Recognize natural disease processes that present as violent or suspicious deaths.
- Distinguish early and late phase postmortem changes and identify variables used in the assessment of postmortem interval including limitations.
- List categories of decedent identification and describe methods and limitations.
- Recognize trace evidence that may be present on a body and apply procedures to preserve or collect evidence.
- Formulate a proper methodology for photographing a decedent and a death scene.
- Investigate a simulated death scene in accordance with national guidelines.



In 2018, 137 medical, law enforcement, and legal professionals attended training at the Cuyahoga County Medical Examiner's Office.

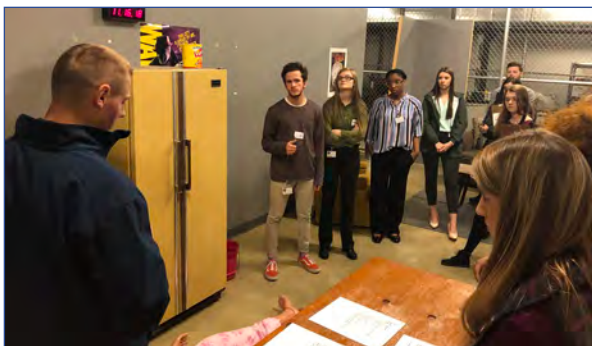
2018 DISTRIBUTION OF MEDICOLEGAL DEATH SCENE INVESTIGATION TRAINING PARTICIPANTS BY COUNTY*



2018 COMMUNITY OUTREACH PROGRAMS

The Medical Examiner's Office's Public and Community Relations Officer currently offers several educational opportunities that include guided tours and student shadow programs.

Educational tours consist of an introductory lecture and a directed tour of the 200,000+ square foot facility that houses both the Cuyahoga County Medical Examiner's Office and the Cuyahoga County Regional Forensic Science Laboratory. Tours are currently offered in April, May, September and October of each school year and are only available to eligible and approved educational programs.



The Cuyahoga County Medical Examiner's Student Shadow Program consists of small classes of 12 participants for a day-long concentrated program. There are separate shadow experiences for high school or college-level students and the programs are only available to Juniors and Seniors.

Both programs are a mix of education-based lectures and hands-on learning. The objective of each program is to provide students with greater exposure to the associated fields of forensic science in order to help direct students toward educational and career goals in these fields. The shadow courses include:

- An introduction to the Medical Examiner's Office
- A guided facility tour

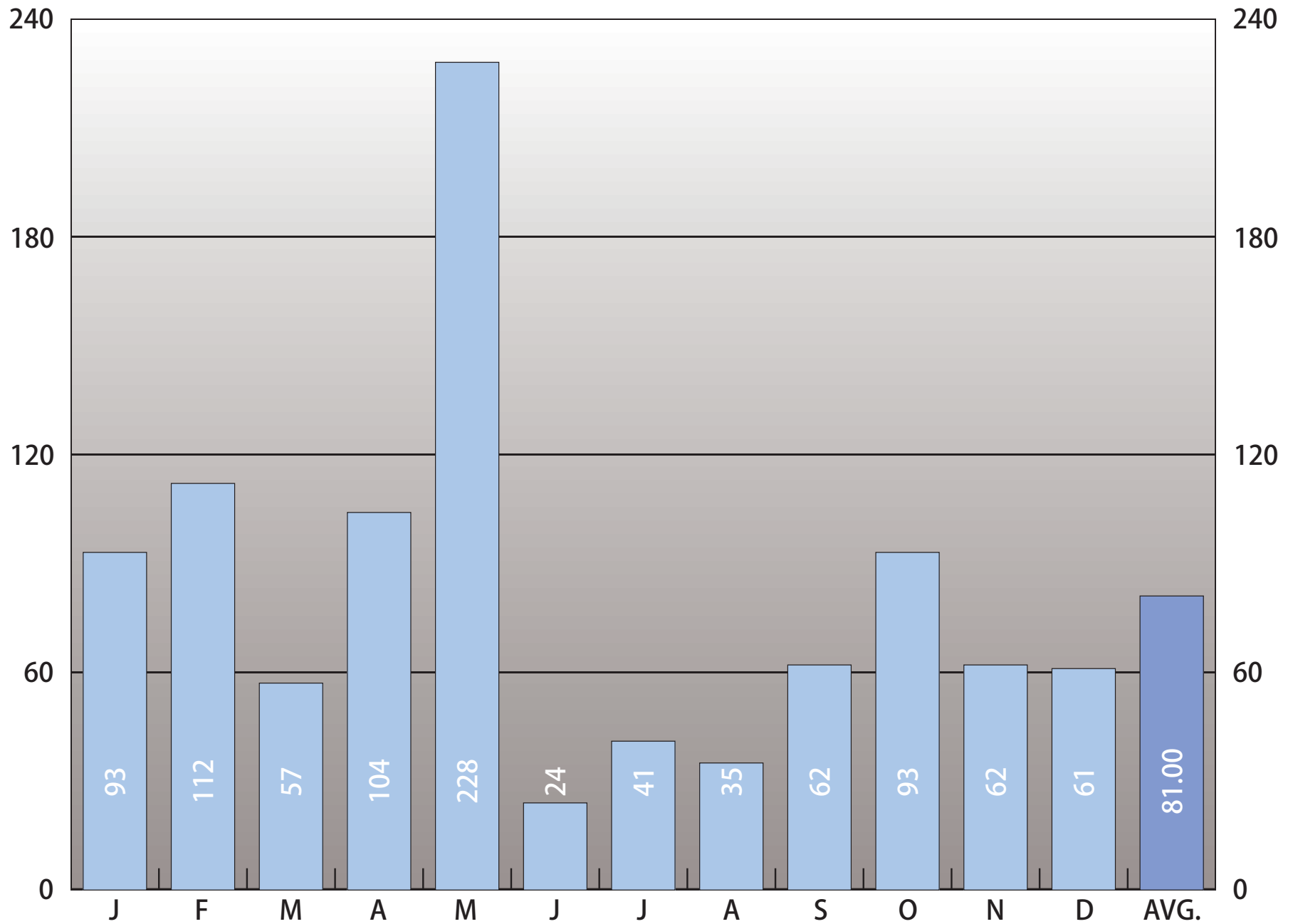
- A Death Scene Investigation lecture
- Hands-on mock death scene investigations
- Attendance of the formal daily 'Viewing' (college only)
- An educational demonstration autopsy (adults only)

In 2018, 972 guests participated in educational tours and training at the Cuyahoga County Medical Examiner's Office.

Visitors were from the following organizations; Case Western Reserve University, Cuyahoga Community College, Cuyahoga County Prosecutor's Grand Jury Unit, Cuyahoga Valley Career Center, Cuyahoga Valley Christian Academy, East Technical High School, Future Connections, Gilmour Academy, Glennville High School, Hawken School, Holy Name High School, Hospice of the Western Reserve, John Marshall High School, Kent State University, Lincoln West High School, MLK High School, Normandy High School, Ohio University, Padua Franciscan, Saint Edwards High School, Saint Ignatius High School, Solon Police Department (Citizens Police Academy), University of Akron, U.S. Marshals Service, Warrensville Heights High School, and West Geauga High School.



2018 COMMUNITY OUTREACH VISITORS TO THE MEDICAL EXAMINER'S OFFICE BY MONTH



2018 GENERAL OFFICE REPORT



General Office

The responsibilities of the General Office is to aid the Cuyahoga County Medical Examiner's Office (CCMEO), in obtaining and creating the needed records and documents to accurately complete any and all Medical Examiner's Office cases (2,810 cases in 2018 alone). This office will assist health and law enforcement organizations, decedent's family members, and the community in obtaining the information needed for closure, legal, educational, and statistical purposes in a respectful and professional manner.

The functions of the General Office are multi-faceted. There are 3 General Office Case Managers that obtain information from hospitals, nursing homes, and law enforcement organizations, needed by the forensic pathologists to accurately determine cause and manner of death. Case Managers also work with funeral directors and decedent's family members to accurately create and complete death certificates and the official Medical Examiner's Report, and to distribute these documents to the appropriate recipients.

The portion of the Medical Examiner's Report prepared by Case Managers is called the Medical Examiner's Verdict and is part of a group of public records that is obtained through this office. A public record request can include any combination of the Verdict, Autopsy Protocol, and Toxicology Report. Photographs and Microscopic slides can only be obtained by certain agencies and family members. **In 2018 the Medical Examiner's Office provided records for 4,295 requests.** That's more than 80 requests per week!

Case Managers also serve in an important reporting role. They routinely provide information to local Vital Statistics departments, Children and Family Services, the Board of Health, and many hospitals and law enforcement agencies.

Record Management and Statistics

When all initial orders are completed and sent, the cases are stored in a file room until they can be scanned to disc. After scanning, the hard copy cases are stored in the Medical Examiner's Office archives (in a separate building). The case records and reports are to be held or stored in a secure and confidential manner that allows ready access as needed, recognizing that most inquiries involve recent cases, but that even cases which are many years old need to be archived appropriately for retrieval.

Information from cases is retrieved and compiled into specific categories for statistical purposes. This information is provided to many professional agencies on a weekly, monthly, or yearly basis. The Records Management and Statistics Department also plays a large part in creating the Statistics book that you are currently reading.



Photograph by J. Bielinski

2018 HISTOLOGY LABORATORY REPORT

The Histology Laboratory at the Cuyahoga County Medical Examiner's Office is responsible for preparing and staining microscopic slides of smears and tissue samples taken from decedents at the time of autopsy. The Histology Technologist processes the tissue samples through formalin, alcohol, and paraffin wax in order to cut thin sections of tissue, place them on glass slides, and stain them with hematoxylin and eosin (H&E). The stained tissue on the slide is covered with mounting media and a glass coverslip. When the slide dries the tissue is essentially protected and preserved indefinitely.

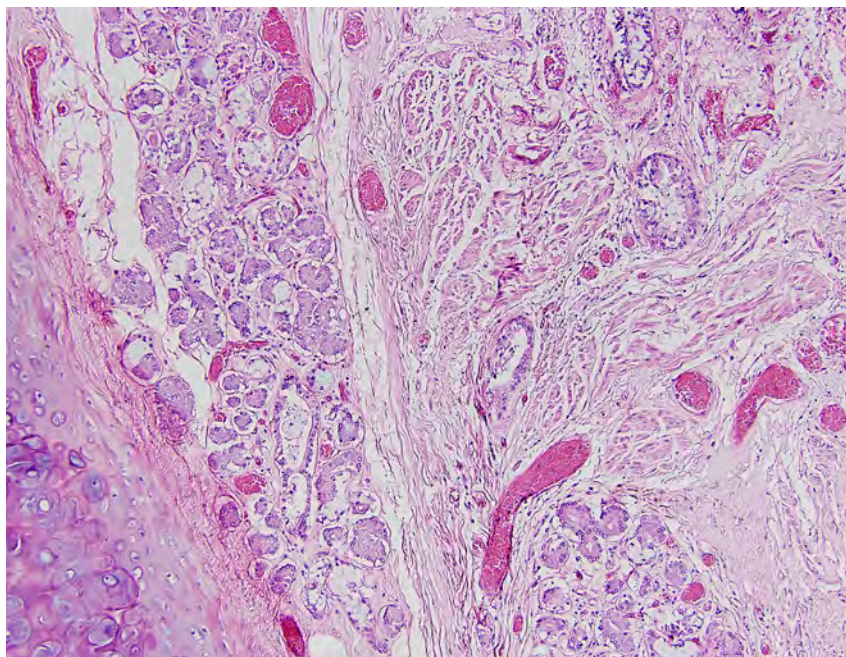
The slides produced are used primarily as a diagnostic tool by the Forensic Pathologist to aid in determining cause and manner of death. Generally, histologic slides are viewed in combination with all evidence collected to make a ruling. However, there are some diagnoses, such as myocarditis, made only by microscopic examination of tissue.

Approximately 10,000 to 16,000 slides are prepared annually in the lab. After each case is signed out by the Pathologist, all slides are returned to Histology. They are then filed and permanently kept in a secure location in our Archives.

Histology slides also serve as an investigative tool helping to solve cold cases when no other DNA evidence is available. Oral, vaginal and rectal (OVR) swabs are taken in cases of suspected homicide and sexual assault. Slides are made after the swabs are rubbed on glass slides and stained for the Pathologist to view.

Rape, assault, abuse, and paternity are all areas in which OVR smears are a part of physical evidence that can help prove the guilt or innocence of a defendant. Upon request the OVR smears taken at autopsy are transferred to the DNA department for further processing. The extracted DNA from the smears has resulted in DNA profiles which were later entered into CODIS. This work has led to DNA "hits" that contributed greatly to cold case investigation.

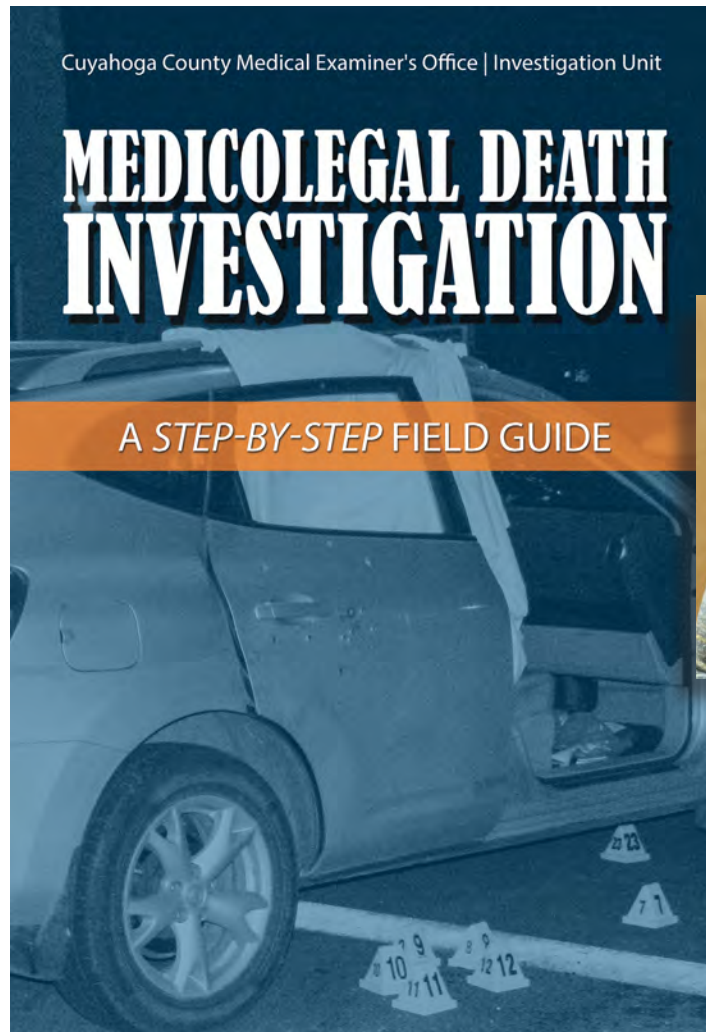
The Histology Laboratory also works with Civil, Prosecuting, and Defense Attorneys by supplying them with Legal Case Recuts from the original case blocks kept on file for 25 years. These slides are purchased by the lawyers and used by independent agencies to reexamine the evidence and give a second opinion regarding the case, mostly in civil suits.



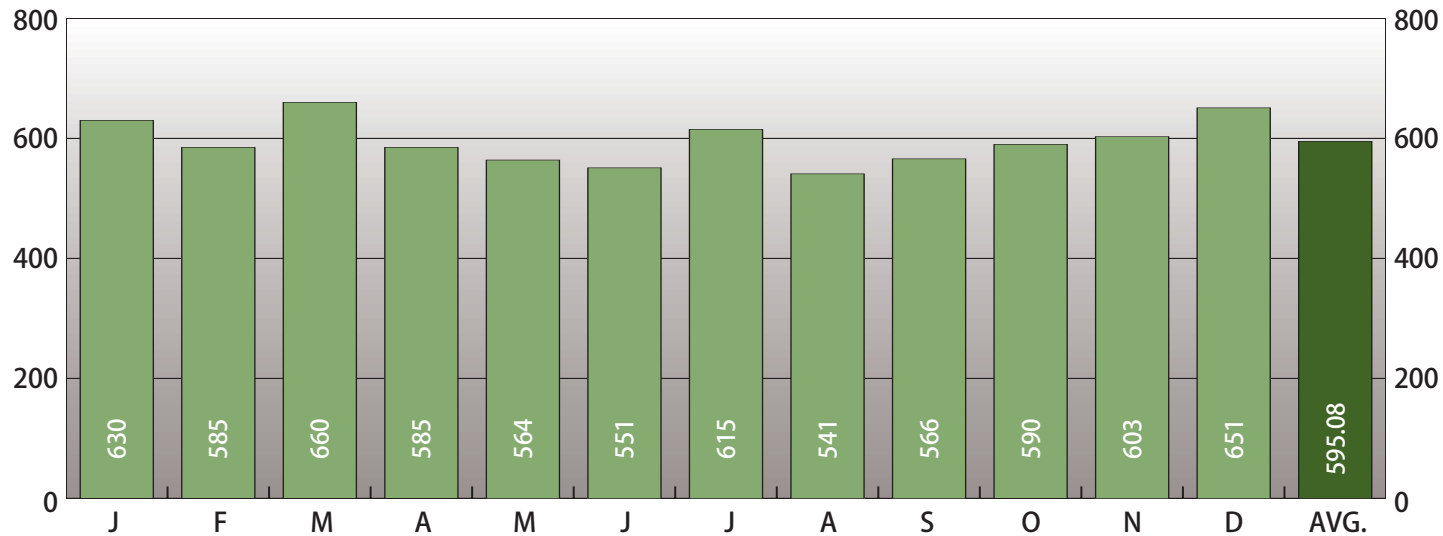
	Cuyahoga County	Outside Cuyahoga County	Total
Total Number of Autopsied Cases	2,317	439	2,756
Sections Received	15,183	4,922	20,105
Blocks Prepared	10,716	3,483	14,199
Slides Prepared and Stained			
Smears (Oral, Rectal, Vaginal)	83	57	140
Standard Staining (Routine Hematoxlin - Eosin)	10,716	3,483	14,199
Special Stains			
Acid Fast Bacteria	6	2	8
Amyloid	9	0	9
Bielschowsky (Silver)	2	0	2
Gomori Methenamine Silver	10	9	19
Gram	2	0	2
Immunohistochemistry	11	0	11
Iron	137	44	181
Movat Pentachrome	9	0	9
Wright Giemsa	2	0	2
Rectus Prepared			
Diagnostic Recut	21	6	27
Educational Recut	13	7	20
Legal Case Recut	141	43	184
Total Slides Prepared	11,162	3,651	14,813

2018 INVESTIGATIVE UNIT REPORT

One of the primary responsibilities of the unit is to collect enough information from the initial death report to determine if the Cuyahoga County Medical Examiner's Office accepts jurisdiction or releases jurisdiction. Once a death is determined to be a medical examiner's case, the investigations unit determines whether or not a scene visit is required. Once established Investigators gather data to help the pathologists formulate the cause and manner of death. Investigative information includes the Investigator's report, scene photographs, medical records, police records, trace evidence findings, consultant's findings, special test results, etc.

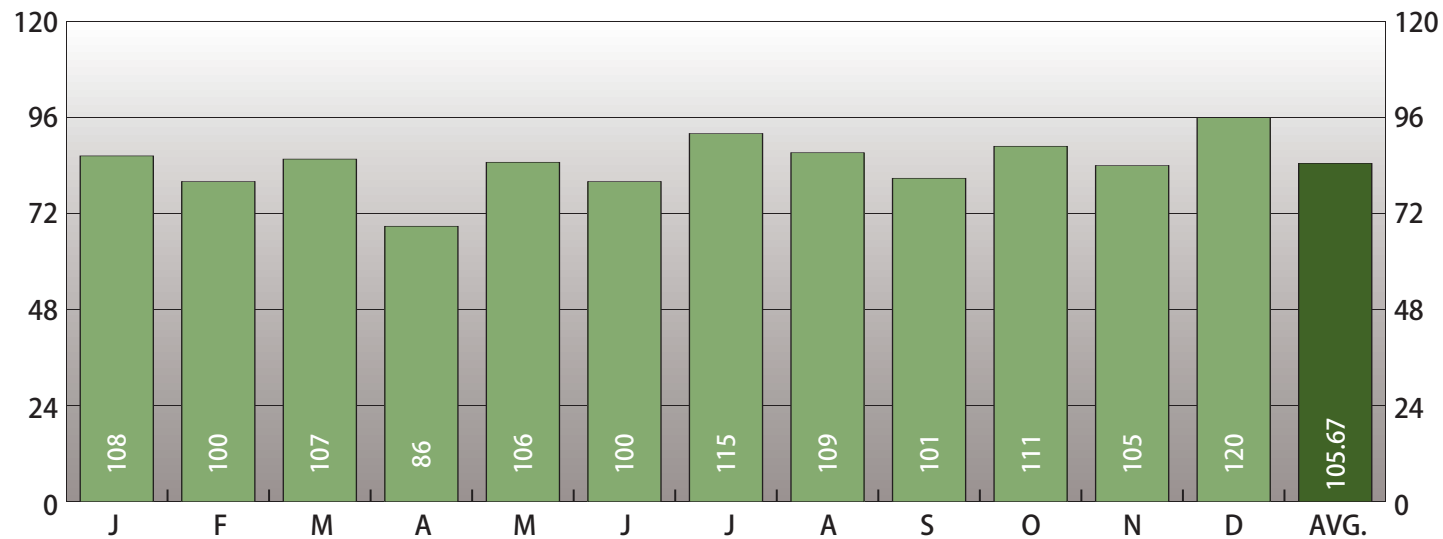


TOTAL NUMBER OF HANDLED CASES BY MONTH FOR THE YEAR 2018



2018
TOTAL CASES
7,141

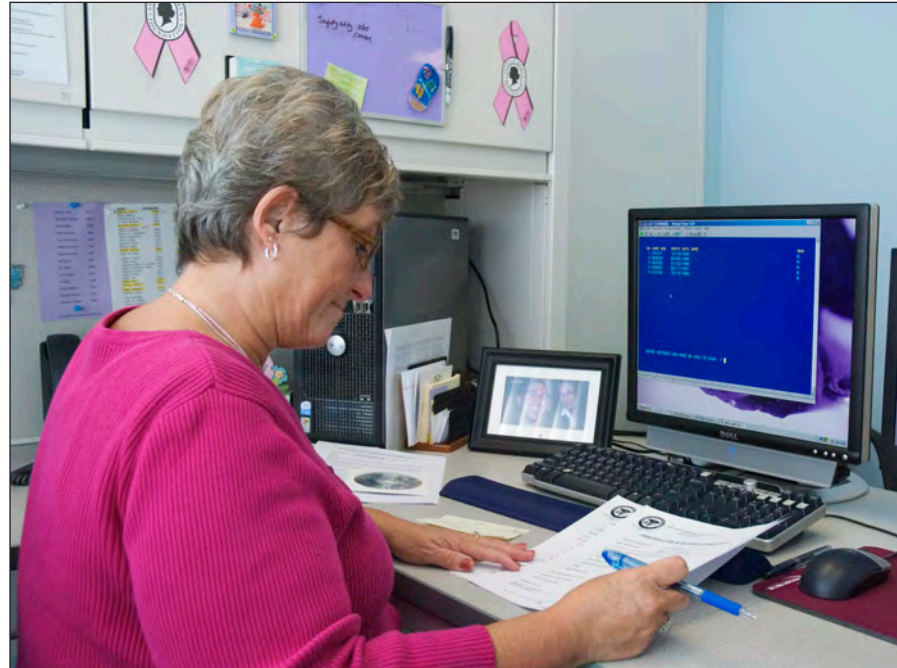
TOTAL NUMBER OF SCENE INVESTIGATIONS BY MONTH FOR THE YEAR 2018



2018
TOTAL SCENES
1,268

2018 MEDICAL SECRETARIES REPORT

The Medical Secretaries work with the Pathologists to complete the Final Pathological Diagnosis and Report of Autopsy for both Cuyahoga County and several surrounding counties. Medical Secretaries, like Case Managers obtain information from agencies to assist the Pathologists in their determination of cause and manner of death. They also report deaths to the Ohio SIDS Network (deaths of children under 2 years of age), and to Children and Family Services or KIDS Network (children 17 years of age and under). The Medical Secretaries maintain schedules for the visiting medical students and resident doctor's rotations. The department answers telephone calls and takes messages for the Pathologists, prepares bills for out of county autopsies, does file management, and maintains departmental records and logs. **The Medical Secretaries completed 1,414 Final Pathological Diagnosis and Reports of Autopsy for Cuyahoga County cases and 431 for surrounding county cases in 2018.**





Photograph by J. Biellinski

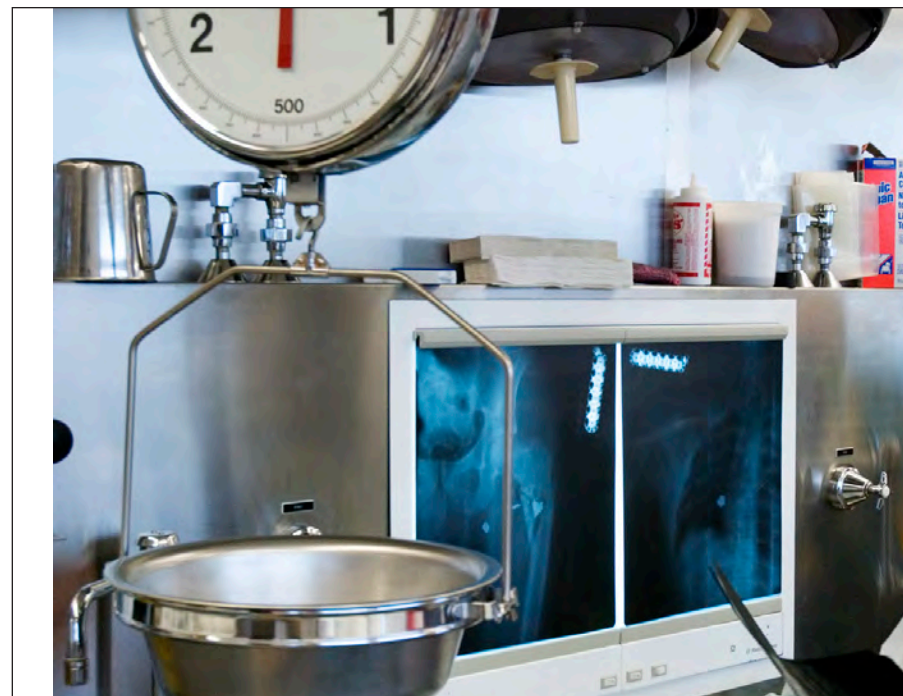
2018 PATHOLOGY DEPARTMENT REPORT

The Department of Pathology is staffed by 8 full time physicians who are Board Certified Forensic Pathologists (or have extensive experience) and 1 – 2 physicians that are training in forensic pathology (fellows). All of the physicians are appointed as Deputy Medical Examiners and assist the Medical Examiner in his medical duties.

Pathology is a medical specialty that concerns the diagnosis of disease through examination of body tissue and fluids. There are two main branches of pathology – anatomic and clinical. Anatomic pathology involves examination of body tissues removed from the body. Surgical pathology and cytology are the two most familiar areas since they deal with biopsy or surgical specimens and/or cell examinations like the PAP smear. Clinical pathology evaluates body fluids. Areas of clinical pathology include chemistry, microbiology, hematology, and blood banking. Forensic pathology is a subspecialty of pathology that applies the techniques of anatomic and clinical pathology to legal issues.

The primary duty of the Deputy Medical Examiner is to perform autopsies to determine the cause and manner of death. Additional duties include testifying in court in both criminal and civil cases, teaching medical students, hospital pathology residents, and other groups, and occasional examination of death scenes.

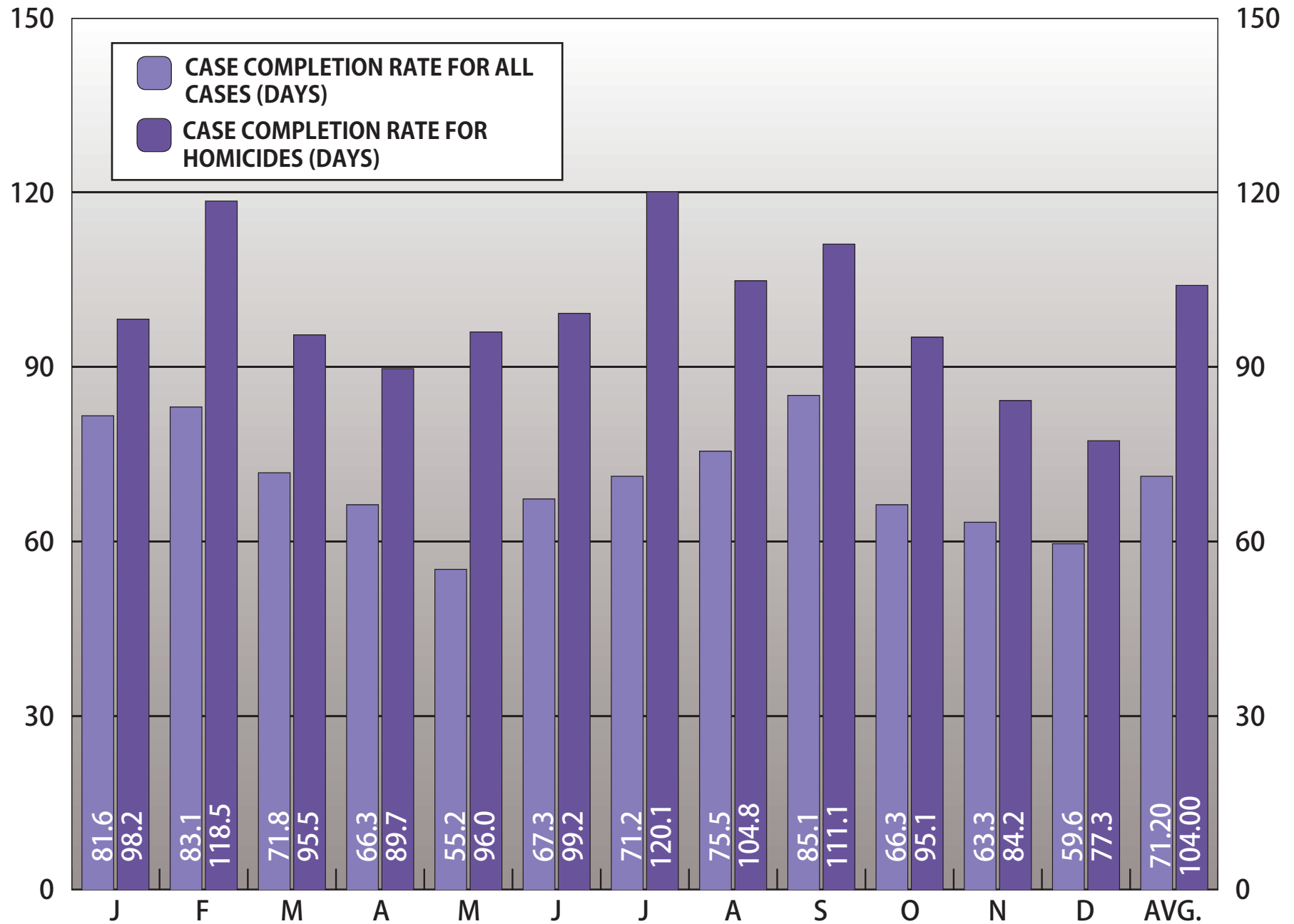
Determination of cause and manner of death is an involved process that can take anywhere from a few days to months, depending on how complicated the case. Most bodies that come to the Medical Examiner's Office do not require an autopsy. These bodies are examined externally only. Those cases that meet certain criteria are autopsied the same or next day. The autopsy consists of three main components – gross examination of the body (looking at the body and organs with the naked eye), microscopic examination (examining tissue biopsies under the microscope), and toxicological examination (testing body fluids for prescription and over-the-counter medications as well as street drugs). To formulate the cause and manner of



death, the pathologist will combine the findings of the autopsy with investigative information. Investigative information includes the Medical Examiner's Investigator report, scene photographs, medical records, police records, trace evidence findings, consultant's findings, special test results, etc. The manner of death consists of five categories – natural, accidental, suicide, homicide, and undetermined.

The Cuyahoga County Medical Examiner's Office's Deputy Medical Examiners work closely with families, police, prosecutors, defense attorneys, and other county Coroners to provide accurate death certification.

2018 PATHOLOGY DEPARTMENT REPORT
2018 PATHOLOGY CASE COMPLETION RATES



2018 RADIOLOGY REPORT

The utilization of radiologic investigation in the Cuyahoga County Medical Examiner's Office can be grouped under the following general broad headings:

- Foreign body identification and localization.
- Documentation of the type and extent of traumatic injuries.
- The identification of congenital anomalies affecting the skeleton.
- Demonstration of underlying diseases which may or may not be related to the cause of death.
- Investigative uses in conjunction with studying specific details.
- Identification of persons in mass catastrophes or a single unknown victim.

Foreign body identification and localization constitutes the major use of the X-ray equipment. The extent, number, and position of the bullets or radiopaque materials can be documented rapidly, with a great saving in time of examination and with high accuracy. If a bullet is not present, a search need not be conducted. Conversely, if a bullet is present, it must be recovered.

Radiographs give an accurate documentation of the fractures and traumatic effects of the soft tissue organs unobtainable in other ways.

Radiology plays an important role in establishing a record of either the normal or abnormal features of the part of the body in question. The use of X-rays to discern multiple pre-existing injuries of specific type and recognizable pattern in a child, living or dead is now well known in establishing "The Battered Child Syndrome."

In 2009 the victims from the Imperial Avenue tragedy all received thorough radiologic examinations. This procedure assisted with establishing the identities of the deceased. In instances where visual recognition is dubious or impossible, radiographs may pro-

vide identifying information. Studies of postmortem radiographs and comparable radiographs taken during life may serve to confirm or exclude a tentative identification.

Radiographs are utilized in the examination of soil samples as an aid to locate skeletal remains and other items of interest. Mattresses, box springs, charred material, various automobile parts and even a tennis shoe have been X-rayed to locate foreign bodies.

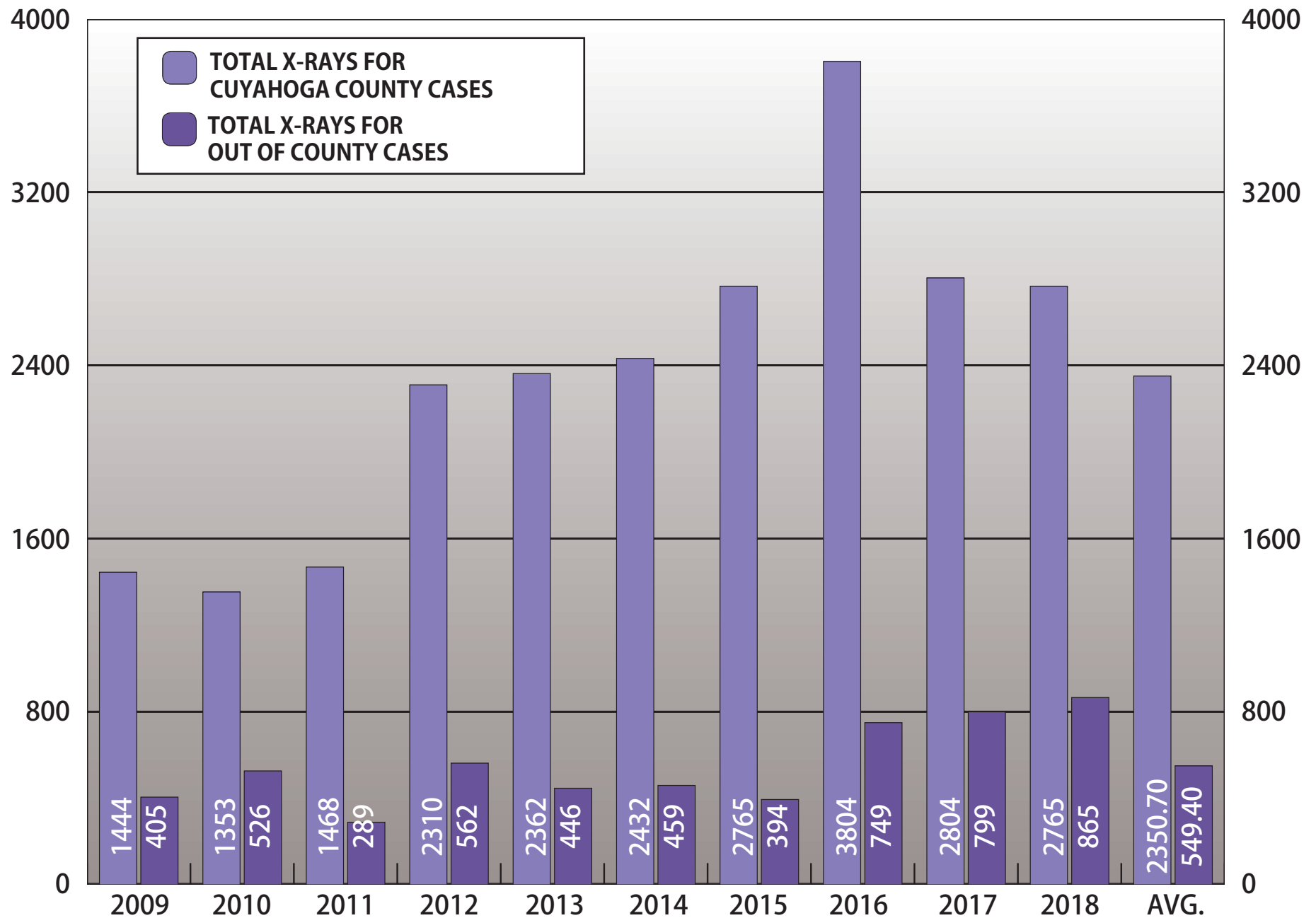
The Cuyahoga County Medical Examiner's Office converted from film radiographs to a Digital Computerized Radiograph (CR) system in July (2011). The quality of images and the versatility provided by the system has significantly enhanced the information provided to the Forensic Pathologists. The ability to enlarge an image to key in on a specific aspect of an examination or vary the contrast and brightness to identify skeletal deformities has been of great value.

In the event of a plane crash or other mass casualty event, the Digital Computerized Radiograph (CR) system in conjunction with the portable X-ray unit can be transported and set up promptly on site. This allows for the ability to perform and deliver quality radiographs from a remote location.

The immediate availability of diagnostic radiographic equipment in the Cuyahoga County Medical Examiner's Office offers the Forensic Pathologist an invaluable tool which aids in performing the autopsy, saving time, as well as accurately documenting pathologic changes.

**2,765 radiographs were made in 2018 of inside cases.
867 radiographs were made in 2018 of outside cases.**

X-RAYS FOR A PERIOD OF TEN YEARS



2018 PHOTOGRAPHY UNIT REPORT

Since 1951, forensic photography tools and techniques have changed dramatically at the Cuyahoga County Medical Examiner's Office, but its primary purpose remains unchanged: to provide a credible, accurate, objective visual record of medical/legal evidence. Scenes of death or bodily injury, associated evidence, wounds, organ specimens and recognizable features of identification on a body are available for examination for only a short time. Therefore, all these subjects (a facial I.D. photo, autopsies, gross specimens, clothing, or trace evidence) are routinely documented by the photography staff. Afterwards, any image processing or printing is done in house. This is discreet, maintains the uninterrupted chain of possession of evidence, and facilitates the availability of image files, negatives, and prints. The Photography Unit also processes and archives images from other sources including Receiving, the Investigation Unit, hospitals, and law enforcement agencies.

Photography, as part of a case report, provides visual support to the written notes and observations of the pathologist during viewing or autopsy, the forensic scientist's examination of clothing or evidence, and the findings of other staff members. It is a teaching aid in lectures and a visual aid in court presentations and published research. It can also stand alone, conveying information that words cannot, and be an investigative tool in itself. Besides recording what can be seen with the human eye, photography surpasses that through a variety of special techniques, making the small large, the invisible visible, or otherwise enhancing all or some aspect of the subject. Infrared light can be isolated and photo-documented to reveal gunshot residue, while ultraviolet light assists in identifying marks on a decedent's skin. Transparent overlays of impressions reproduced in a 1:1 fashion illustrate patterns that can be matched to fabric, a tool, or a tire tread, and photomicrography shows pathology of disease or the presence of foreign matter on the finest scale.

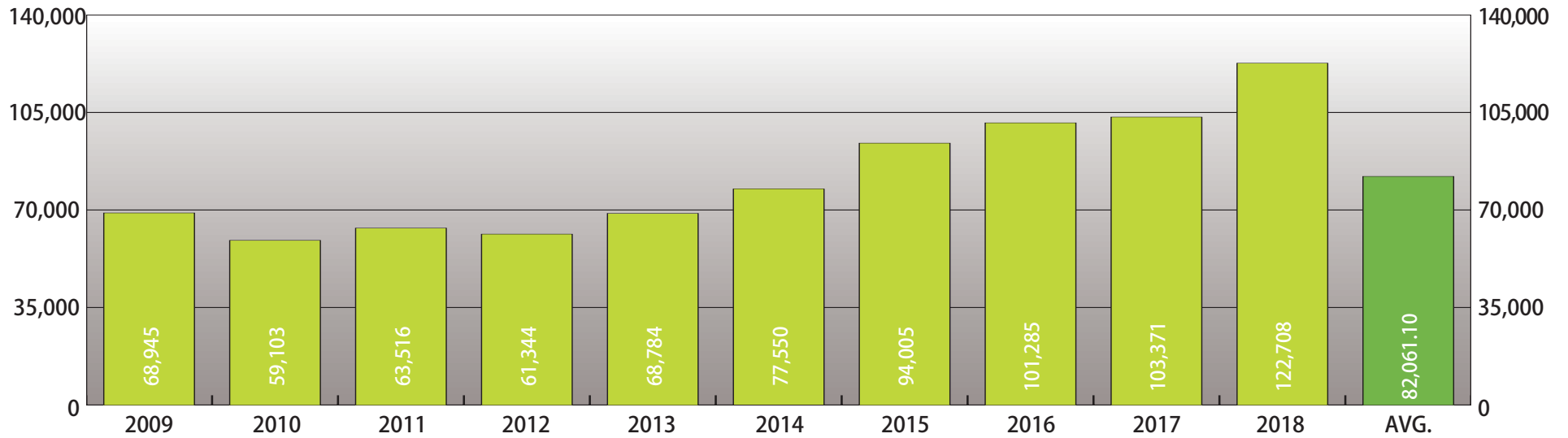
Since 1989, the Photography Unit has made use of computer hardware, software, and digital imaging technology to improve its investigative potential, resolve spatial relation questions encountered in crime and accident scenes, and complete graphic assignments more quickly and efficiently. In 2000 the Photography Unit successfully made the transition from film to digital technology. Presently all services previously performed with film are accomplished using digital equipment, with the highest priorities placed upon image security, image quality (resolution and color), and image file authentication and archiving. Mindful of the ever-increasing emphasis on quality assurance, the Photography Unit continues to advance standards and practices consistent with guidelines established by SWGIT and other respected authorities.

Historically, the Photography Unit at the Medical Examiner's Office has also had the responsibility and the resources to produce three-dimensional constructs and graphics (including this report). Charts, graphs, illustrations, crime scene reconstructions or other scale models are utilized in court, classrooms or publications as effective ways to make investigative, scientific, or technical points more accessible to jurors, students, or law enforcement personnel in a way that verbal description cannot.

As the demand for products and services offered by the Photography Unit increases, the dedicated staff continues to improve themselves with targeted training and instruction. Through sustained learning, forensic photographers are exposed to new skills, techniques, and emerging technologies. This emphasis on education will allow the Photography Unit to better serve the office's forensic pathologists and scientists, Northeast Ohio's law enforcement community, and the citizens of Cuyahoga County.

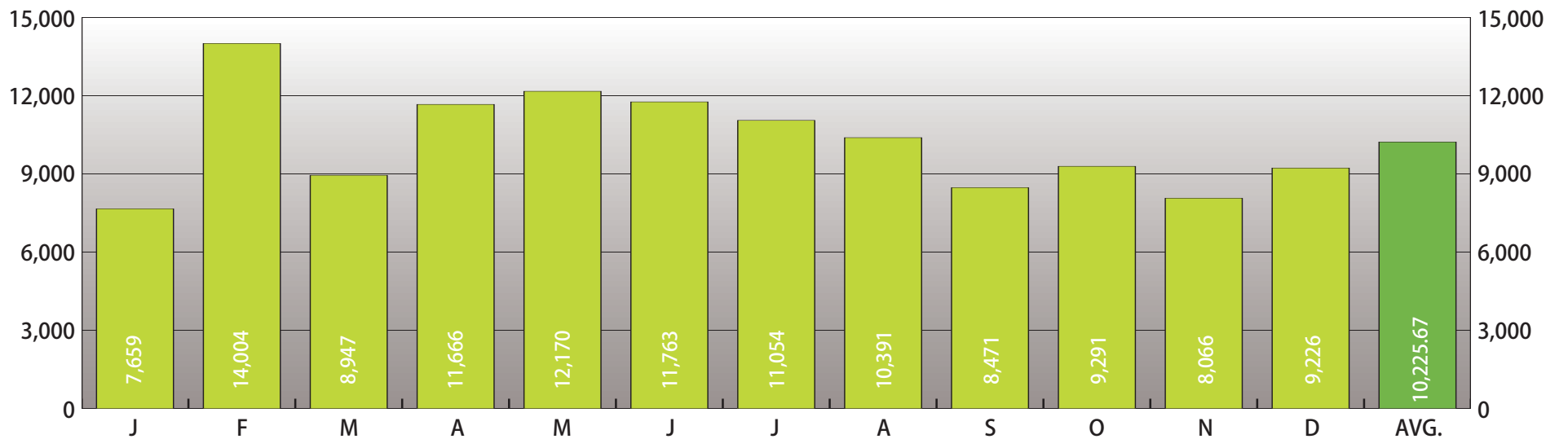
2018 PHOTOGRAPHY UNIT REPORT

TOTAL NUMBER OF RECORDED IMAGES FOR A PERIOD OF TEN YEARS

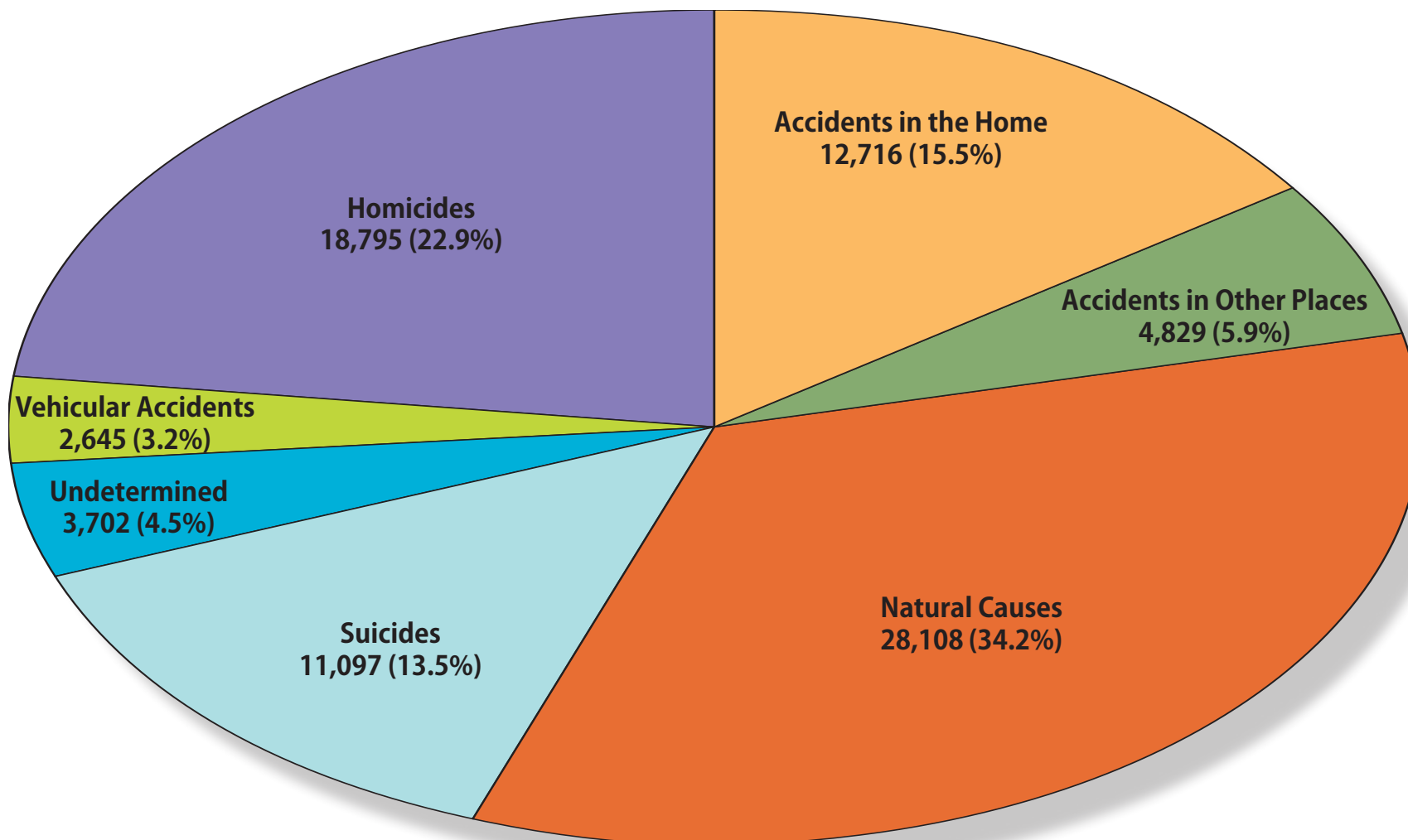


2018 PHOTOGRAPHY UNIT REPORT

TOTAL NUMBER OF RECORDED IMAGES BY MONTH FOR THE YEAR 2018



82,070 Digital Photographs

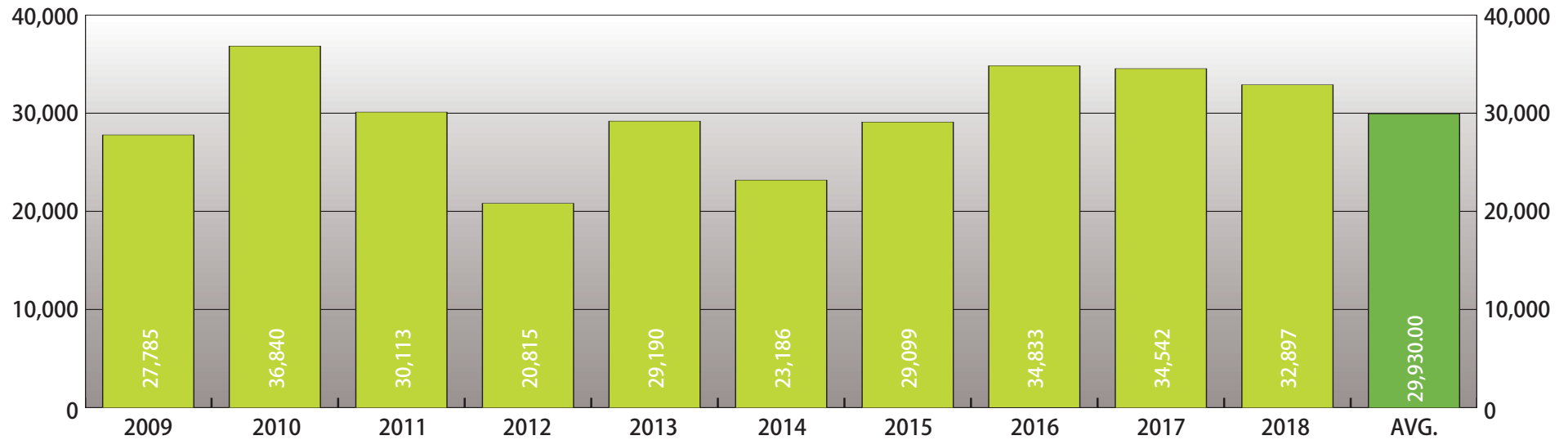


*Only the 81,892 digital images of 2018 Medical Examiner's cases taken in the calendar year 2018 were tabulated for this chart.

**Not included on this chart: Accidents While at Work (103) and No Manner Issued (75)

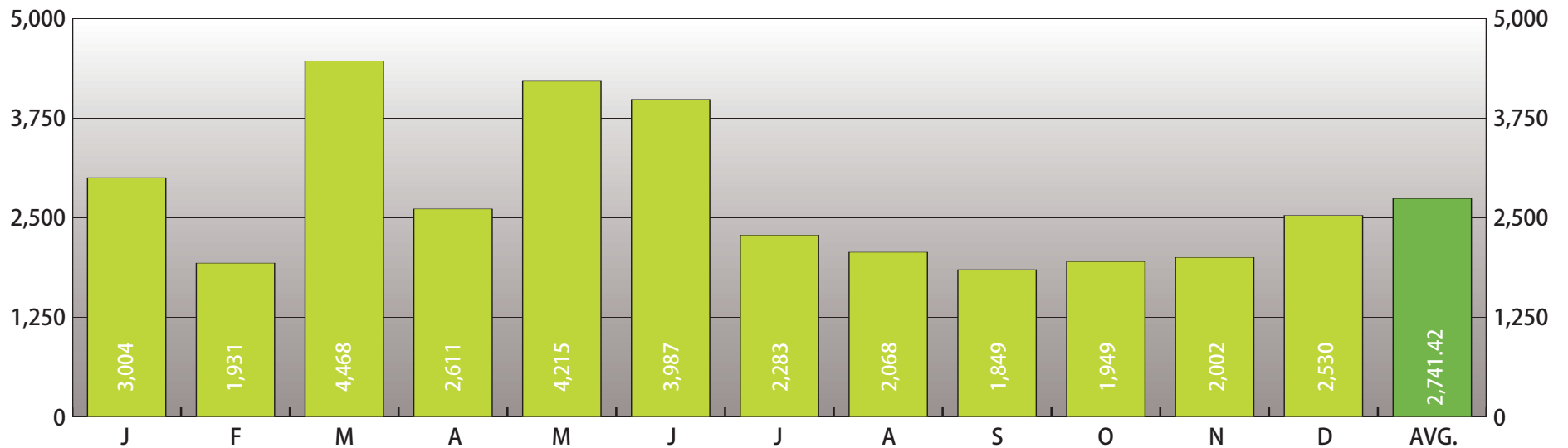
2018 PHOTOGRAPHY UNIT REPORT

TOTAL NUMBER OF RELEASED IMAGES (PRINTED AND DIGITAL) FOR A PERIOD OF TEN YEARS



2017 PHOTOGRAPHY UNIT REPORT

TOTAL NUMBER OF RELEASED IMAGES (PRINTED AND DIGITAL) BY MONTH FOR THE YEAR 2018



2018 CUYAHOGA COUNTY REGIONAL FORENSIC SCIENCE LABORATORY REPORT

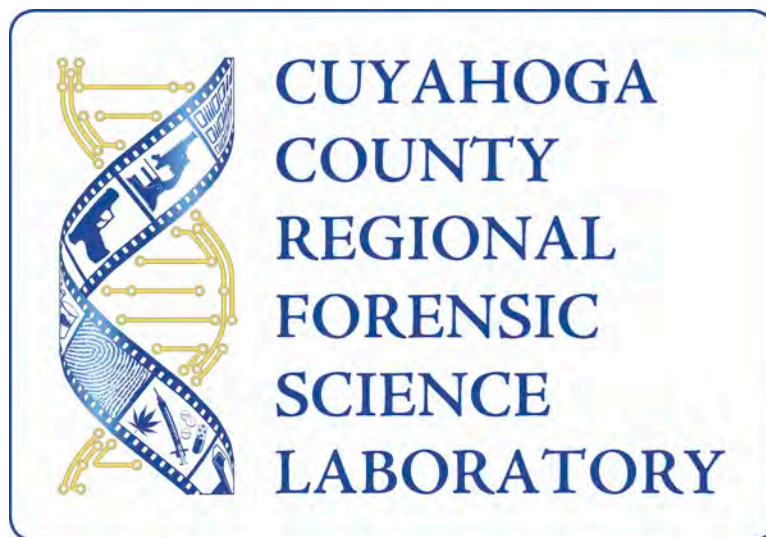
While in the planning for over a decade, “The Lab” has been in operation for only a brief time. However, it is built upon the foundation of one of the oldest and longest continuously running coroner labs in the nation. Now under a new government, Cuyahoga County appoints a professional forensic pathologist to serve as the Medical Examiner. Dr. Thomas P. Gilson was named as Cuyahoga County’s first medical examiner in 2011. Dr. Gilson stands firmly behind the concept of creating a forensic lab to serve the justice needs of the region.

Dozens of scientists populate several accredited laboratories, all working for one goal - “Truth and justice through science.” These capabilities are not inexpensive but are being made available to every justice or law enforcement agency who wishes to take advantage of them.

The Cuyahoga County Medical Examiner’s Office Regional Forensic Science Laboratory is accredited as a whole by ASCLD/LAB-International and maintains compliance with the guidelines set forth by ISO/IEC 17025 and ASCLD/LAB-International Supplemental Requirements for Forensic Science Testing Laboratories. In addition, the DNA unit also maintains compliance with the FBI Quality Assurance Standards for Forensic DNA Testing Laboratories. The Parentage and Identification lab maintains accred-

itation from the American Association of Blood Banks (AABB). The Toxicology Lab will have secured, as of publication, separate accreditation from the American Board of Forensic Toxicology (ABFT).

These accreditations verify the reliability of various aspects of the testing including laboratory equipment, the qualifications of our laboratory staff, and the soundness of our testing methods and standard operating procedures. Further, it makes the CCRFSL the most highly accredited public forensic laboratory in the United States.





Photograph by G. Wilson

2018 DRUG CHEMISTRY SECTION REPORT

The Drug Chemistry Section started in 2008 as plans for a regional crime lab began to take shape. The Coroner's Drug Chemistry Section became more of a reality when an agreement was reached with the Cuyahoga County Sheriff for the Coroner's office to be the sole provider of controlled substance testing for that agency. Late in 2009 this service was finally made available. The section has expanded greatly with the formation of agreements with CMHA and the City of Cleveland to provide this service in exchange for personnel to help perform regional testing, as well as a dozen or so other agencies on an annual contract or on a fee-per-case basis.

The Drug Chemistry Section has streamlined its reporting process by producing and delivering all reports electronically. Doing so has allowed the new Cuyahoga County Regional Forensic Science Lab to deliver controlled substance testing results much more quickly and efficiently than was being done previously. By combining this with very low turnaround times, the Drug Chemistry Section is providing controlled substance results faster than any other lab in the state and well below the national average. The accepted industry standard for the time needed to complete a drug chemistry case is 14 days while some labs consider 30 days to be satisfactory performance. Cases older than 30 days are considered to be backlogged cases.

Our Drug Chemistry Section averaged 4.5 days to complete a case in 2018. We have no cases older than 30 days and no overtime is required to complete our casework. All of this has benefited the citizens of Cuyahoga County by reducing the cost of housing inmates in the county jail while they await arraignment on drug related offenses. Future plans include a completely paperless operation as well as an Internet based infor-

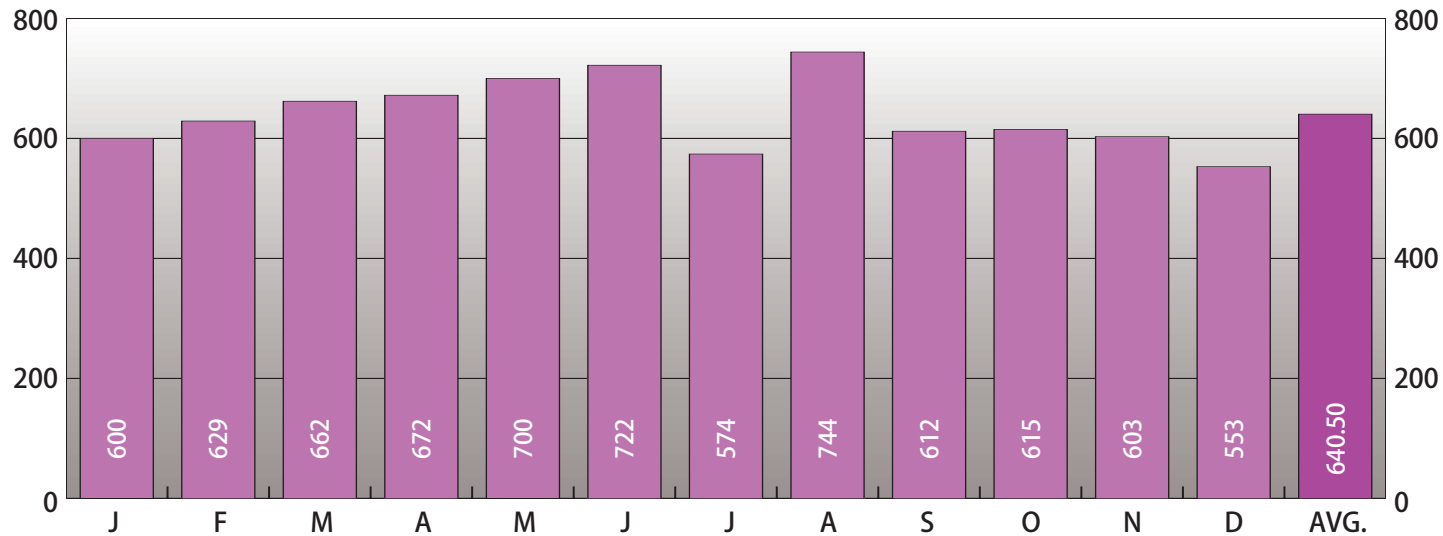


mation system whereby all submitting agencies can search for and print their reports from any location 24 hours a day.

The Drug Chemistry Section provides controlled substance testing to law enforcement. It is the purpose of this section to weigh and identify any controlled substance that might be present in suspected drug evidence. It is also important for this section to be able to determine if a sample does not contain a controlled substance to prevent erroneous prosecution. The section is fully equipped to handle this task without having to rely on reference labs or some other source of external testing.

2018 DRUG CHEMISTRY SECTION REPORT

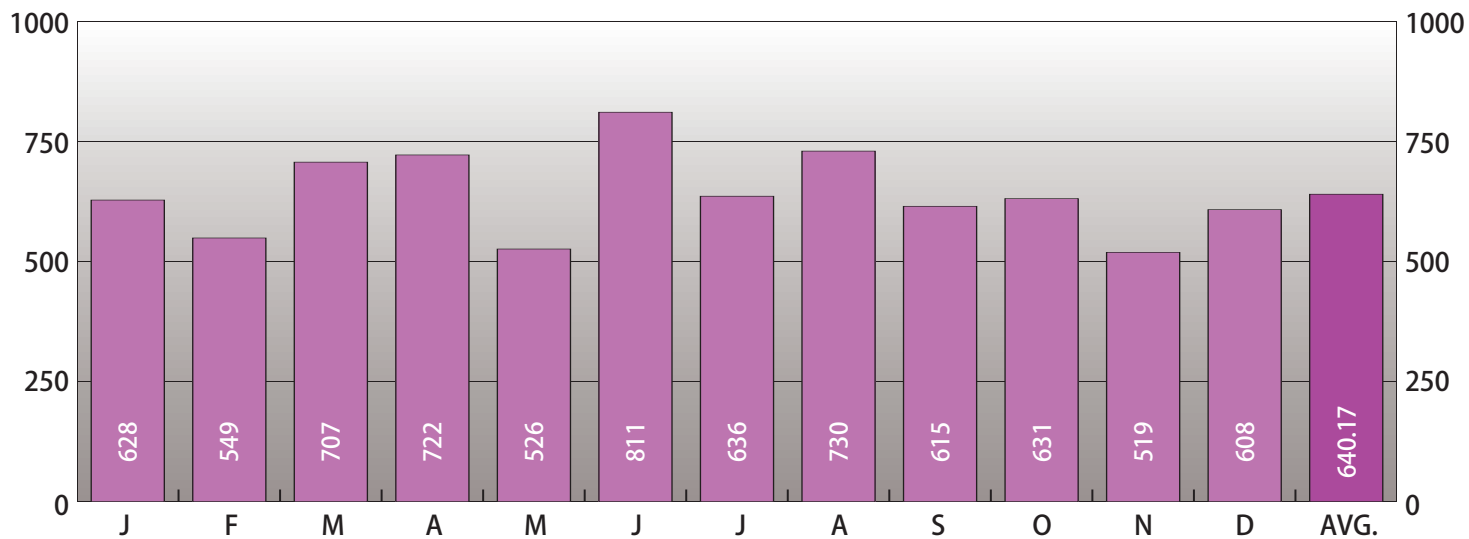
CASES SUBMITTED BY MONTH FOR THE YEAR 2018



2018
TOTAL CASES
7,686

2018 DRUG CHEMISTRY SECTION REPORT

CASES COMPLETED BY MONTH FOR THE YEAR 2018



2018 DRUG CHEMISTRY SECTION REPORT

2018 CASELOAD BY SUBMITTING AGENCY

TABLE 79

Submitting Agency	Total	Submitting Agency	Total	Submitting Agency	Total
Cleveland Police Department - 2nd District	842	North Olmsted Police Department	37	CPD Sex Crimes Unit	4
Cleveland Police Department - 4th District	652	Shaker Heights Police Department	36	Cuyahoga Heights Police Department	4
CMHA Police Department	615	Bay Village Police Department	32	Lyndhurst Police Department	4
Cleveland Police Department - 3rd District	516	Bratenahl Village Police Department	31	Seven Hills Police Department	4
Cleveland Police Department - 5th District	496	East Cleveland Police Department	28	U.S. Pretrial Services and Probation Office	4
RTA Transit Police	442	Linndale Police Department	27	Adult Parole Authority	3
Parma Police Department	441	Middleburg Heights Police Department	27	Bedford Heights Police Department	3
Cuyahoga County Sheriff Office	356	US Postal Inspection Service	26	Moreland Hills Police Department	3
Cleveland Police Department - 1st District	351	Cleveland Clinic Police Department	23	Warrensville Heights Police Department	3
CPD Gang Impact Unit	237	CPD Cleveland-Hopkins Airport Authority	22	Cleveland State University Police	2
Cleveland Police Department Narcotics	224	Mayfield Heights Police Department	20	Collaborative Testing Services	2
Euclid Police Department	214	Olmsted Township Police Department	19	CPD Internal Affairs	2
CPD NICE Unit	148	Maple Heights Police Department	18	North Randall Police Department	2
Lakewood Police Department	139	Parma Heights Police Department	18	Olmsted Falls Police Department	2
Westlake Police Department	130	University Hospitals Police Department	17	South Euclid Police Department	2
North Royalton Police Department	118	Garfield Heights Police Department	16	CPD Domestic Violence Unit	1
SPAN Drug Enforcement Unit - SDEU	90	Highland Heights Police Department	16	Gates Mills Police Department	1
Southeast Area Law Enforcement - SEALE	85	University Circle Police Department	16	Pepper Pike Police Department	1
Cleveland Heights Police Department	71	Cleveland Police Department Homicide	14	Solon Police Department	1
Cleveland MetroPark Ranger Department	71	Mayfield Village Police Department	12	Strongsville Police Department	1
Brookpark Police Department	62	DEA Cleveland	11		
Homeland Security Investigations	52	Oakwood Village Police Department	11		
Berea Police Department	45	University Heights Police Department	8		
Bedford Police Department	41	Chester Township Police Department	7		
Brooklyn Police Department	40	Orange Village Police Department	7		
Cuyahoga County Medical Examiners Office	40	Walton Hills Police Department	7		
Beachwood Police Department	39	ATF Alcohol Tobacco and Firearms	5		
Newburgh Heights Police Department	39	Richmond Heights Police Department	5		
Westshore Enforcement Bureau	38	Cleveland Police Department Traffic Enforcement	4		

TABLE 80

2018 CONTROLLED SUBSTANCE RESULT FREQUENCY*

Controlled Substance	Total	Controlled Substance	Total	Controlled Substance	Total
Cocaine	5513	Clonazepam	55	Buprenorphine	12
Marihuana	5273	N-Benzylpiperazine (BZP)	51	Carisoprodol	12
Fentanyl	2299	Hordeine	41	Codeine and Acetaminophen	12
Heroin	2160	Monoacetylmorphine	37	Hydromorphone	12
THC/Hashish	2031	Diazepam	33	Dextromethorphan	10
Fentanyl Analogs (Carfentanil 106)	1771	Lysergic Acid Diethylamide	33	Oxandrolone	10
Methamphetamine	758	MDMA	30	Tadalafil	10
Substituted Cathinones	361	Lisdexamphetamine	27	Zolpidem	10
Non-Scheduled Medication	293	Lorazepam	24	Flualprazolam	9
Synthetic Cannabinoids	207	Psilocyn	24	Naloxone	9
Alprazolam	204	Promethazine	21	3-MeO-PCP	8
Tramadol	204	Sildenafil	21	Melatonin	8
Oxycodone and Acetaminophen	195	Gabapentin	20	Phentermine	8
Amphetamine	169	Etizolam	19	Clonazepam	7
Phencyclidine	160	Aspirin	18	Codeine Syrup	7
Oxycodone	143	Hydrocodone	18	Methadone	7
Buprenorphine and Naloxone	115	Stanozolol	18	Modafinil	6
CBD	93	Ketamine	17	Tapentadol	6
Hydrocodone and Acetaminophen	74	Morphine	16	Trazodone	6
Mitragynine (Kratom)	65	Methylphenidate	14	Pentylone	5

2018 DRUG CHEMISTRY SECTION REPORT

2018 CONTROLLED SUBSTANCE RESULT FREQUENCY* (continued)

TABLE 80

Controlled Substance	Total	Controlled Substance	Total	Controlled Substance	Total
Zopiclone/Eszopiclone	5	Diphenoxylate and Atropine	1		
1,4-Butanediol	4	Dronabinol	1		
Bupropion	4	Ephedrine/Pseudoephedrine	1		
Phenobarbital	4	Ethylphenidate	1		
Flubromazepam	3	Letrozole	1		
Nordiazepam	3	Meperidine	1		
Pregabalin	3	Meprobamate	1		
Promethazine and Dextromethorphan	3	O-Desmethyl-Tramadol	1		
TFMPP	3	Phendimetrazine	1		
2-CB	2	Phenibut	1		
4-Chloro-alpha-PVP	2	Primobolan	1		
Codeine	2	Propoxyphene and Acetaminophen	1		
Diclazepam	2	Temazepam	1		
Lidocaine	2	Tenocyclidine	1		
N,N-Dimethylamphetamine	2				
N,N-Dimethyltryptamine (DMT)	2				
Tianeptine	2				
2C-D	1				
4-Acetoxy-DMT	1				
Butalbital and Acetaminophen and Caffeine	1				

*X,XXX total cases were processed in 2018.

TABLE 81

2018 CONTROLLED SUBSTANCE AMOUNTS REPORTED

Controlled Substance	Grams	Items	Unit Dose	Controlled Substance	Grams	Items	Unit Dose	Controlled Substance	Grams	Items	Unit Dose
1,4-Butanediol	194.5			Clonazepam	0.19			Flualprazolam Residue		2	
2-CB	0.09			Clonazepam			269.5	Flualprazolam	685.81		
2C-D	0.19			Clonazolam	140.69			Flubromazolam	0.72		
3-MeO-PCP Residue		2		Clonazolam			7	Gabapentin	13.71		
3-MeO-PCP	210.01			Cocaine Base	2460.36			Gabapentin			4
4-Acetoxy-DMT	0.55			Cocaine Hydrochloride	5201.44			Hashish/THC Residue		918	
Acetaminophen Residue		10		Cocaine Residue		2507		Hashish/THC	45061.58		
Acetaminophen	6093.7			Cocaine	15453.81			Heroin Residue		766	
Acetaminophen			90	Codeine and Acetaminophen	4.56			Heroin	4534.47		
Alprazolam Residue		6		Codeine and Acetaminophen			38	Heroin			830
Alprazolam	344.7			Codeine Residue		2		Hordenine	548.07		
Alprazolam			8271	Codeine Syrup	1471.33			Hydrocodone & Acetaminophen Residue		1	
Amphetamine Residue	15			Codeine	7.05			Hydrocodone and Acetaminophen	3.26		
Amphetamine	73.54			Dextromethorphan	1944.58			Hydrocodone and Acetaminophen			423.5
Amphetamine			834	Diazepam Residue		2		Hydrocodone Residue		9	
Aspirin	20.37			Diazepam	1.82			Hydrocodone	1.71		
Aspirin			37	Diazepam			234.75	Hydromorphone Residue		2	
Buprenorphine and Naloxone Residue		7		Diclazepam	2.28			Hydromorphone	0.45		
Buprenorphine and Naloxone	19.29			Diphenhydramine	375.81			Hydromorphone			64
Buprenorphine and Naloxone			610	Diphenhydramine			11	Ketamine Residue		5	
Buprenorphine	2.45			Diphenoxylate and Atropine	0.13			Ketamine	15.41		
Buprenorphine			3.5	Ephedrine/Pseudoephedrine	0.22			Ketamine			1
Bupropion Residue		2		Ethylphenidate	2.84			Letrozole	148.17		
Bupropion			50	Etizolam Residue		1		Lidocaine	109.67		
Bupropion	0.35			Etizolam	61.88			Lisdexamphetamine Residue		1	
Butalbital and Acetaminophen and Caffeine			4	Etizolam			250	Lisdexamphetamine	1.59		
CBD	4075.92			Fentanyl Residue		799		Lisdexamphetamine			83
CBD Residue		6		Fentanyl	7099.79			Lorazepam	0.13		
Carisoprodol Residue		2		Fentanyl Analogs Residue		330		Lorazepam			129
Carisoprodol			983	Fentanyl Analogs	7584.03			Lysergic Acid Diethylamide Residue		1	

2018 DRUG CHEMISTRY SECTION REPORT

2018 CONTROLLED SUBSTANCE AMOUNTS REPORTED (continued)

TABLE 81

Controlled Substance	Grams	Items	Unit Dose	Controlled Substance	Grams	Items	Unit Dose	Controlled Substance	Grams	Items	Unit Dose
Lysergic Acid Diethylamide	0.97			Nicotine Residue		8		Quinine	122.31		
Lysergic Acid Diethylamide			295	Nicotine	459.72			Sildenafil	10.52		
Marihuana Residue		276		Nicotine			13	Sildenafil			16
Marihuana	761310.81			Non-Scheduled Medication			3823	Substituted Cathinones Residue		72	
MDMA Residue		3		Nordiazepam	105.61			Substituted Cathinones	10525.18		
MDMA	6084.4			Nordiazepam			16	Steroids Residue		4	
Melatonin			26	O-Desmethyl-Tramadol	0.87			Steroids			47
Melatonin	26.6			Oxycodone and Acetaminophen Residue		21		Steroids	72702.34		
Meperidine	0.12			Oxycodone and Acetaminophen	5.04			Synthetic Cannabinoids Residue		17	
Meprobamate Residue		1		Oxycodone and Acetaminophen			1306	Synthetic Cannabinoids	1884.75		
Methadone Residue		2		Oxycodone Residue		18		Tadalafil	1455.97		
Methadone			9	Oxycodone	3626.07			Temazepam			455
Methadone	0.27			Oxycodone			1032	Tenocyclidine Residue		1	
Methamphetamine Residue		224		PCP Residue		51		Tianeptine	10.57		
Methamphetamine	7956.59			Phencyclidine (PCP)	1054.97			Tramadol Residue		41	
Methylphenidate Residue		3		Phencyclidine (PCP)			36	Tramadol	241.64		
Methylphenidate	0.03			Phendimetrazine			84	Tramadol			2006.5
Methylphenidate			67	Phenibut	0.33			Trazodone	1.8		
Mitragynine (Kratom)	2459.64			Phenobarbital	3025.98			TFMPP	1.12		
Modafinil			255	Phentermine			209	Zolpidem Residue		1	
Monoacetylmorphine Residue		31		Pregabalin			6	Zolpidem			41.5
Monoacetylmorphine	3.47			Primobolan	9.07			Zopiclone/Eszopiclone			155
Morphine Residue		2		Promethazine and Dextromethorphan	321.12						
Morphine	1.42			Promethazine Residue		9					
Morphine			181	Promethazine	2098.9						
N,N-Dimethylamphetamine Residue		2		Propoxyphene and Acetaminophen			12.5				
N,N-Dimethyltryptamine (DMT) residue		1		Psilocyn	26.63						
N,N-Dimethyltryptamine (DMT)	0.26			Quetiapine			3.5				
Naloxone	1.1			Quetiapine	0.38						
N-Benzylpiperazine (BZP)	113.9			Quinine Residue		1					

Forensic Scientists within the Fingerprint Laboratory will develop and recover latent prints from items of evidence, analyze any latent impressions that are detected, and may compare these impressions with the known prints of individuals or may search them through the automated database.

An additional service provided by the Fingerprint Lab is the identification of deceased individuals. Fingerprints may be recorded from deceased individuals which can be compared to known exemplars of individuals in order to identify the decedent.

Development techniques routinely utilized by the Fingerprint Lab include:

Visual Examination

Alternated Light Source Examinations (used to visualize fluorescent techniques or inherent luminescence)

Cyanoacrylate Fuming (superglue fuming which adheres to moisture in latent print residue on non-porous surfaces)

Cyanoacrylate Dye Stains (fluorescent dye stain used after cyanoacrylate fuming)

Powders (adheres oils, moisture and contaminants in latent print residue)

Ninhydrin (reacts with amino acids present in sweat, used on porous surfaces)

DFO (reacts with amino acids present in sweat producing a fluorescent reaction, used on porous surfaces)

1,2-Indanedione(reacts with amino acids present in sweat producing a fluorescent reaction, used on porous surfaces)

Physical Developer (reacts with non-soluble components of latent print residue, can be used to process porous items exposed to moisture)

Amido Black (protein enhancer for blood prints)

Small Particle Reagents (powder suspension that can be used to process non-porous items exposed to moisture)

Adhesive Processing Techniques (powder suspensions such as wetpowder and dial soap formulations that can be used to develop latent prints on adhesive surfaces)

Latent print examinations are conducted utilizing the ACE-V methodology. This is a sequential process which consists of four phases; Analysis, Comparison, Evaluation and when appropriate, Verification.

Analysis—the assessment of an impression to determine suitability for comparison

Comparison—the observation of two or more impressions to determine the existence of discrepancies, dissimilarities or similarities

Evaluation—decision making step in which an examiner reaches a conclusion based upon the information observed in Analysis and Comparison

Verification—a second latent print examiner will conduct an independent ACE examination of the latent print to either support or refute the conclusion of the first examiner.

901 decedents were fingerprinted in 2018.

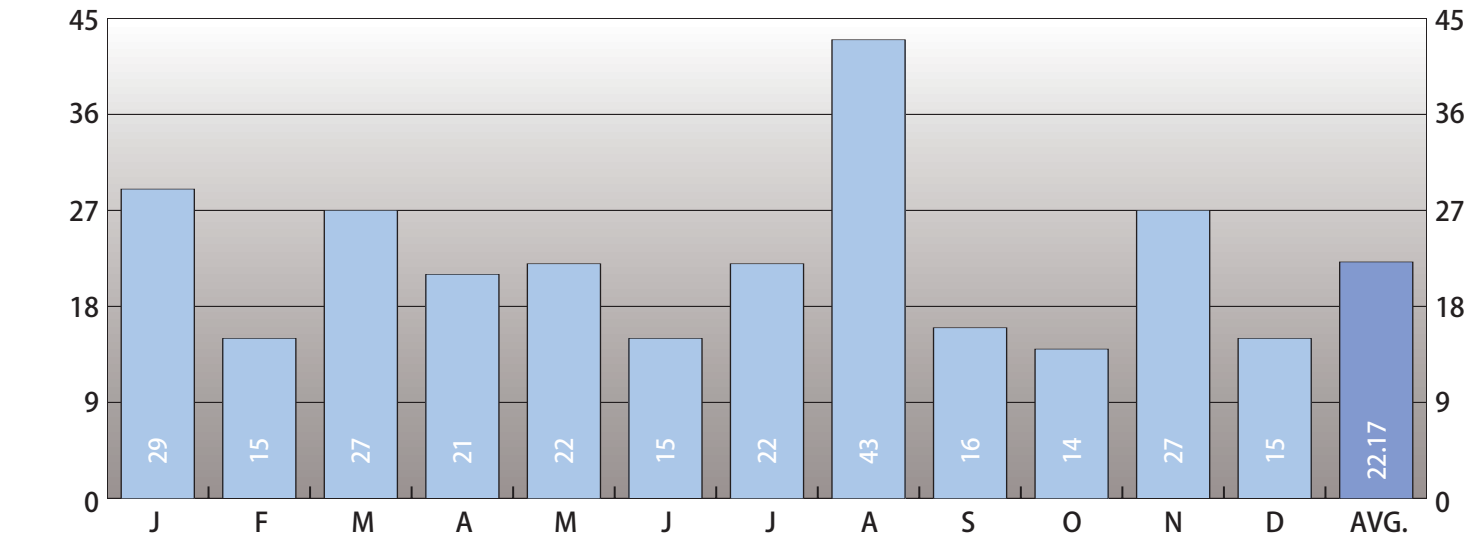
160 tentative/unknown decedents were fingerprinted in 2018.

124 tentative/unknown decedents were identified by fingerprints in 2018.



2018 FINGERPRINTS UNIT REPORT

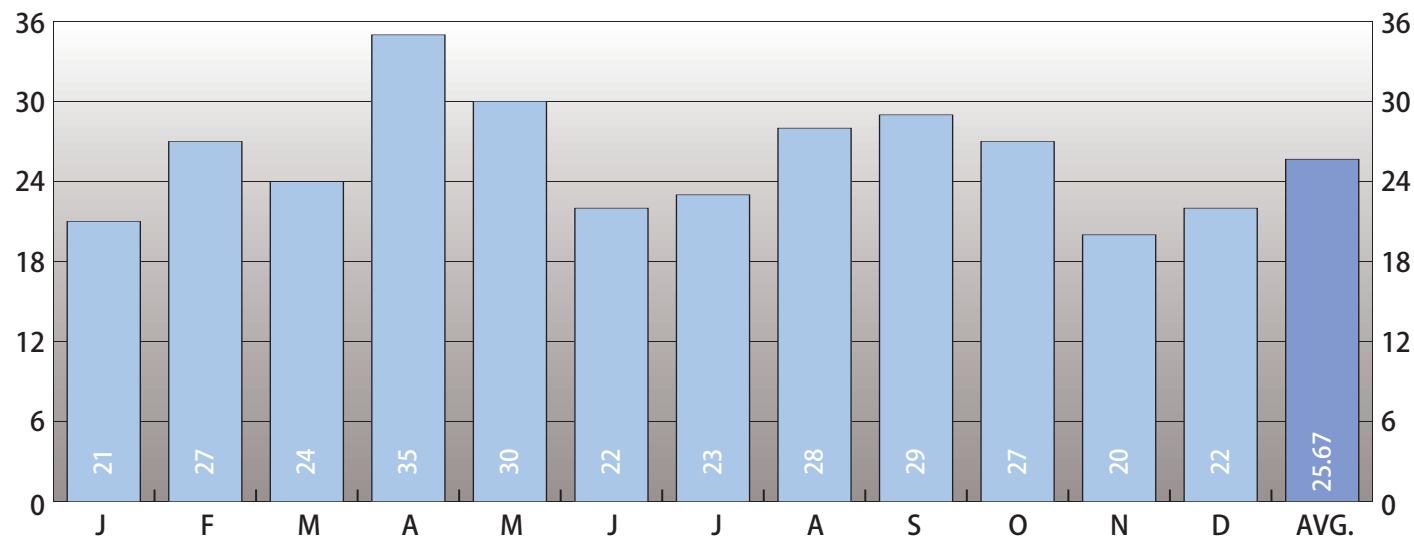
CASES SUBMITTED BY MONTH FOR THE YEAR 2018



2018
TOTAL CASES
266

2018 FINGERPRINTS UNIT REPORT

CASES COMPLETED BY MONTH FOR THE YEAR 2018



In 2017, the Firearms & Toolmarks Unit began to accept casework in two phases. Phase I transitioned casework from the Cleveland Police Department, where the laboratory was previously housed, to the new unit. Phase II expanded evidence submissions to local law enforcement agencies throughout Cuyahoga County. Our staff is comprised of veteran firearms experts who specialize in forensic science disciplines, such as firearms identification.

Forensic Firearms Identification deals primarily with the examination and comparison of fired ammunition components with known firearms. Evidence collected from crime scenes is examined and microscopically compared with test samples collected from test fired firearms in the laboratory. This process determines whether a particular firearm was used in an incident. It can also determine how many different firearms were used in an incident. Firearms examiners use a comparison microscope to analyze the unique striations, or markings, left behind on fired bullets and fired cartridge cases.

In addition to comparative examinations, the Firearms & Toolmarks Unit performs functionality determinations on firearms submitted in violent crime cases. The laboratory utilizes an indoor firing range which contains a water tank, cotton box, and a remote firing stand (used for test firing damaged or unsafe weapons). Known standards are collected from submitted firearms and can be later compared to fired bullets and fired cartridge cases collected at crime scenes.

Occasionally, firearms are submitted with obliterated se-

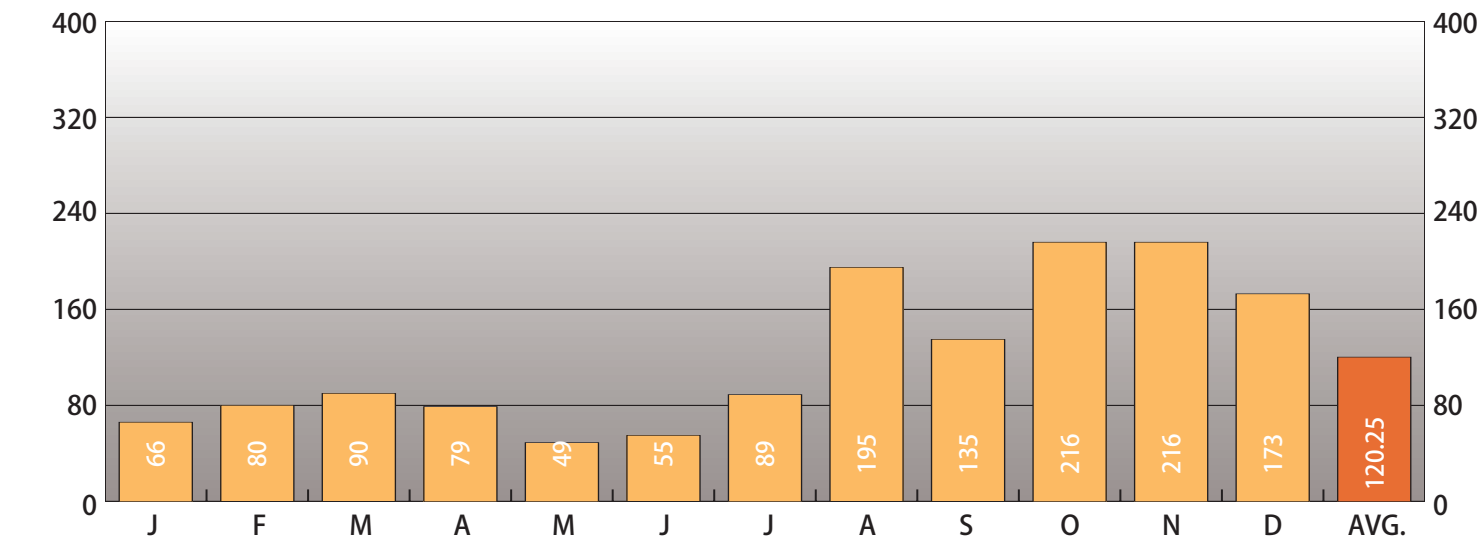


rial numbers. The Firearms unit performs serial number restorations using a series of acids. This can lead to the possible discovery that a firearm was stolen or trace the firearm back to its owner.

Furthermore, the firearms unit is partnered with the Bureau of Alcohol, Tobacco, and Firearms (ATF) in the usage of the National Integrated Ballistic Information Network (NIBIN). Specialized equipment known as the Integrated Ballistics Identification System (IBIS) is used to digitally capture images of fired cartridge cases which are then uploaded into the NIBIN database. NIBIN then performs a computer-based comparison of the image against previously entered cartridge cases in the database. The primary goal of the program is to link fired crime scene cartridge cases back to a firearm and to link previously unassociated cases.

2018 FIREARMS & TOOLMARKS UNIT REPORT

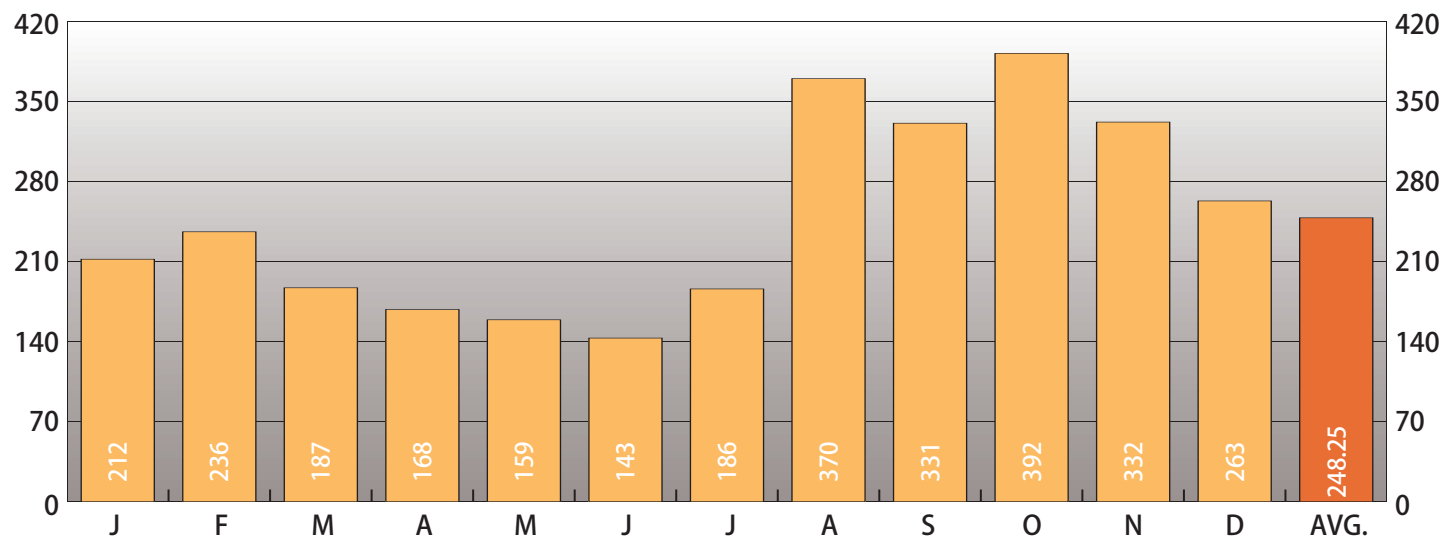
CASES SUBMITTED BY MONTH FOR THE YEAR 2018



2018
TOTAL CASES
1,446

2018 FIREARMS & TOOLMARKS UNIT REPORT

CASES COMPLETED BY MONTH FOR THE YEAR 2018





Photograph by J. Bielinski

2018 FORENSIC DNA UNIT REPORT

The Forensic DNA Unit helps to determine the possible identity, cause and circumstances in a criminal case through DNA analysis on the biological evidence in the case. DNA, or deoxyribonucleic acid, is a large molecule located within cells that contains the genetic instructions or blueprints needed to construct other components of cells and are used in the development and functioning of life forms. DNA analysis is a powerful tool because each person's DNA is unique (with the exception of identical twins).

The DNA unit maintains compliance with the FBI Quality Assurance Standards for Forensic DNA Testing Laboratories along with the Regional Forensic Science Lab overall ANSI National Accreditation Board. These accreditations verify the reliability of various aspects of the testing including laboratory equipment, the qualifications of our laboratory staff, and the soundness of our testing methods and standard operating procedures.

The Forensic DNA Unit consists of two components: Casework and CODIS.

The Casework element involves performing scientific analysis of biological samples recovered from crime scenes. DNA collection and analysis give the criminal justice field a powerful tool for convicting the guilty and exonerating the innocent.

The unit assists law enforcement in resolving homicide cases through identification of any foreign DNA on the victim and through identification of DNA on the evidence collected from the crime scene and potential suspects. The unit also performs DNA analysis on biological evidence collected in sexual assault cases. In addition, the unit also performs DNA analysis on numerous evidentiary items such as guns, trigger, spent shell casings, knives, door knobs/handles, steering wheels, drug pouches and plastic baggies, which can successfully link the perpetrator to the item to

help the law enforcement agencies in solving various other crimes.

“Touch DNA” refers to the DNA that is left behind from skin cells when a person touches or comes into contact with an item. By using Touch DNA techniques, the Forensic DNA Unit can work on the evidence from breaking and entering cases and examine guns and other weapons for possible DNA.

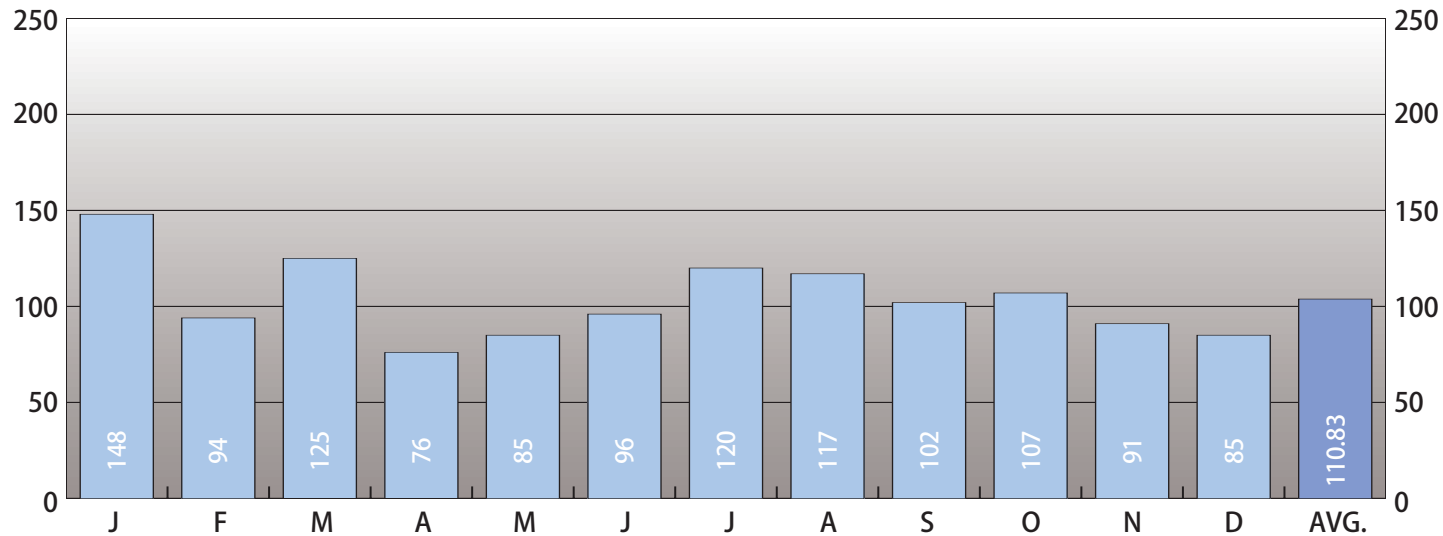
The Forensic DNA Unit also performs DNA analysis in “Cold Cases” using the latest DNA technologies.

The CODIS component makes use of the Combined DNA Index System, which blends computer and DNA technologies into an effective tool for fighting violent crime. CODIS can generate investigative leads through different database searches, in crimes where biological evidence is recovered from the crime scene. It enables federal, state, and local forensic laboratories to exchange and compare DNA profiles electronically, thereby linking serial violent crimes to each other and to known offenders.



2018 FORENSIC DNA UNIT REPORT

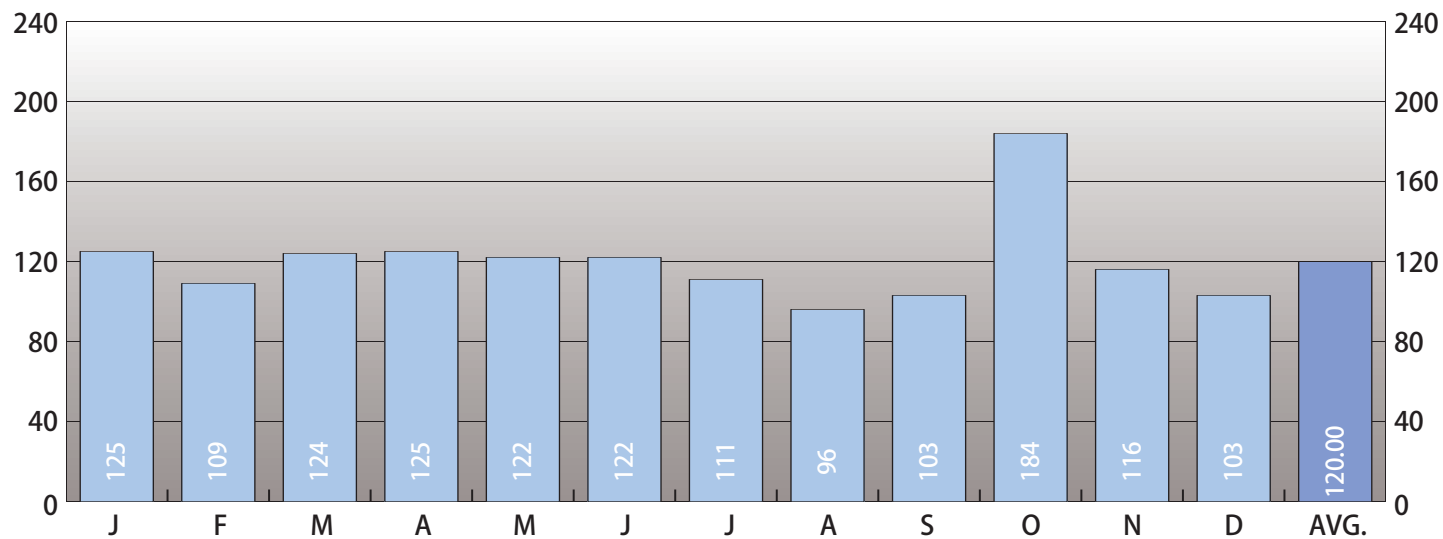
CASES SUBMITTED BY MONTH FOR THE YEAR 2018



2018
TOTAL CASES
1,246

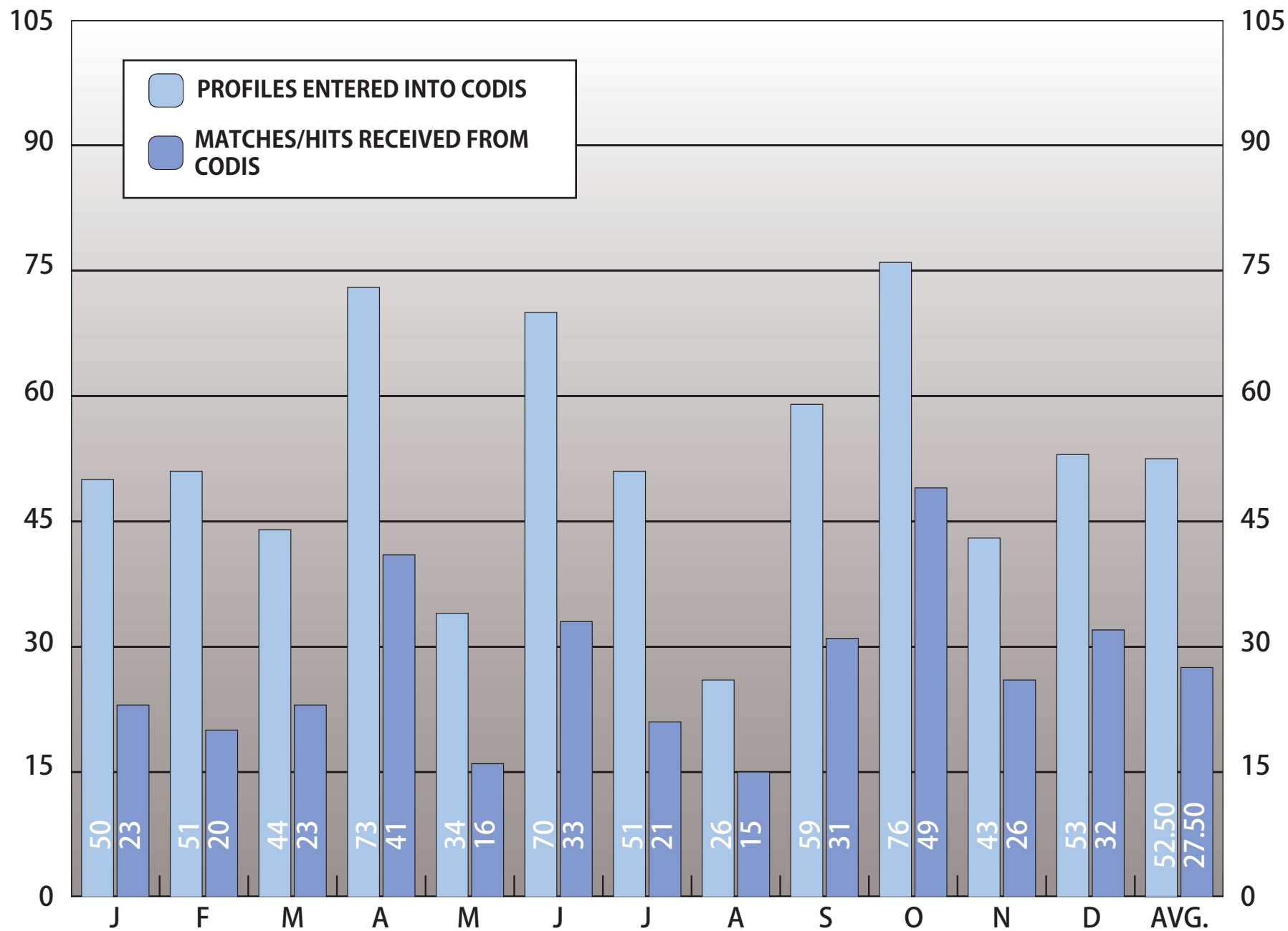
2018 FORENSIC DNA UNIT REPORT

CASES COMPLETED BY MONTH FOR THE YEAR 2018



2018 FORENSIC DNA UNIT REPORT

2018 COMBINED DNA INDEX SYSTEM (CODIS)





Photograph by J. Bielinski

2018 PARENTAGE AND IDENTIFICATION DEPARTMENT REPORT



The Parentage & ID unit is accredited by AABB (American Association of Blood Banks). The Unit performs DNA relationship testing to identify decedents or human remains which cannot be visually identified due to decomposition, burning and/or mutilation. Efficient identification of such decedents/remains is required so that they can be released to the relatives, a correct death certificate may be issued, and law enforcement investigations may proceed.

Relationship DNA analysis is also used in resolving missing person cases. The unit also provides DNA relationship analysis in criminal paternity cases where it is believed that a woman has become pregnant as a result of a sexual assault. In such cases DNA paternity analysis can be carried out to establish the identity of the father of the baby, or in other situations such as rape or incest where there are products of conception. The unit also provides DNA relationship testing in child support, divorce, custody issues and immigration cases etc.

The Parentage & ID unit offers following types of DNA tests:

- Paternity test
- Maternity test
- Sibship test
- Grandparents test
- Twin Zygoty
- DNA ID profiling
- Immigration DNA test

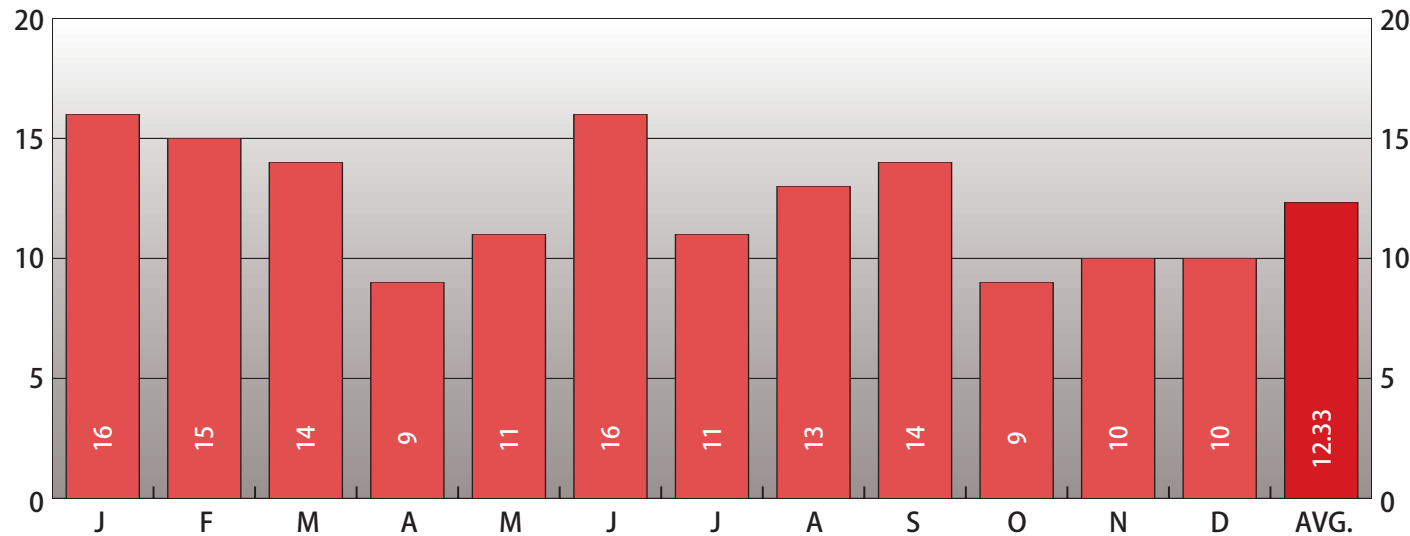
The Parentage & Identification Unit of the Cuyahoga County Regional Forensic Science Laboratory also provides DNA relationship services to the general public for the following legal purposes.

The DNA relationship testing is usually performed in following types of cases:

- Identification
- Criminal Paternity Cases
- Child Support
- Child Custody/Visitation Rights
- Immigration
- Adoption
- Insurance/Inheritance Claims
- Welfare and Social Security Cases

2018 PARENTAGE AND IDENTIFICATION DEPARTMENT REPORT

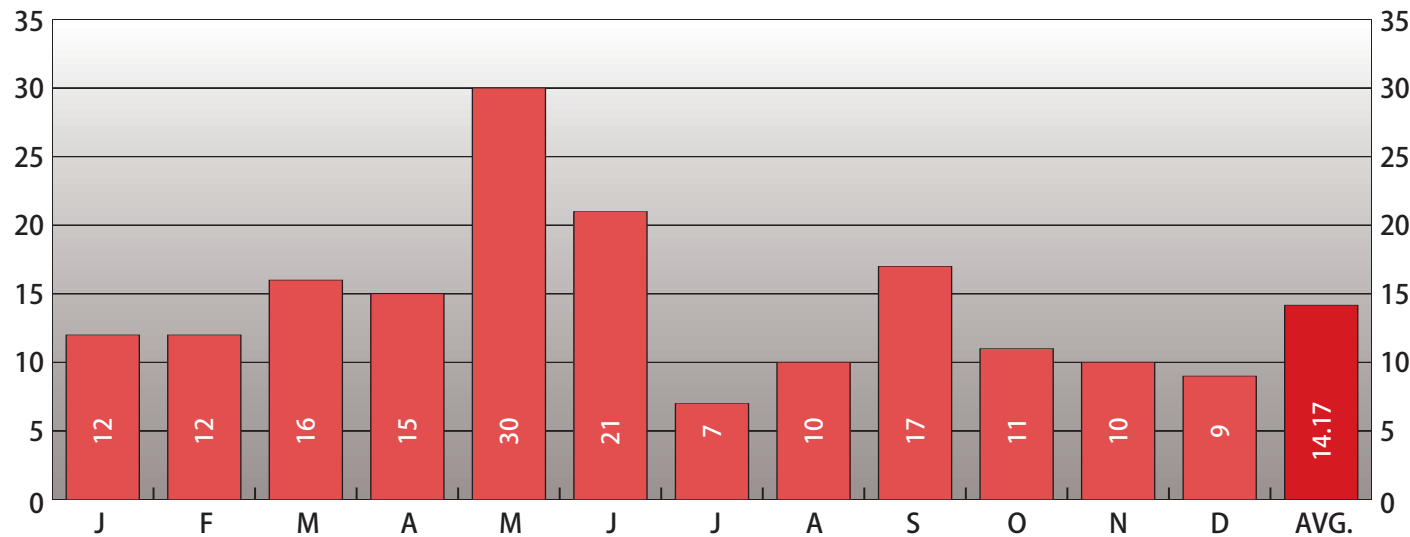
CASES SUBMITTED BY MONTH FOR THE YEAR 2018



2018
TOTAL CASES
150

2018 PARENTAGE AND IDENTIFICATION DEPARTMENT REPORT

CASES COMPLETED BY MONTH FOR THE YEAR 2018



2018 TOXICOLOGY LABORATORY REPORT



Accurately determining the cause and manner of death is essential for the protection of public health and safety. Many disciplines are required to work together as a team to ensure that correct determinations are made. A critical part of the process in determining cause and manner of death is a forensically reliable Toxicology Unit. Toxicology as a scientific discipline is the study of how chemicals and drugs adversely affect living organisms. The sub-discipline of Forensic Toxicology is concerned with toxicity to humans and the medico-legal consequences, where the results are likely to be used in court. Forensic Toxicologists may be involved with postmortem toxicology, behavioral or human performance toxicology, and/or forensic drug testing. The Toxicology Laboratory at the Cuyahoga County Medical Examiner's Office (CCMEO) performs all of these types of testing with a primary emphasis on postmortem toxicology.

Postmortem toxicology is performed to assist pathologists, coroners or medical examiners determine whether drugs, alcohol or chemicals played a role in causing the death of an individual. The Toxicologist identifies and quantifies the drugs present in postmortem fluids and tissues and provides interpretation of the results as to

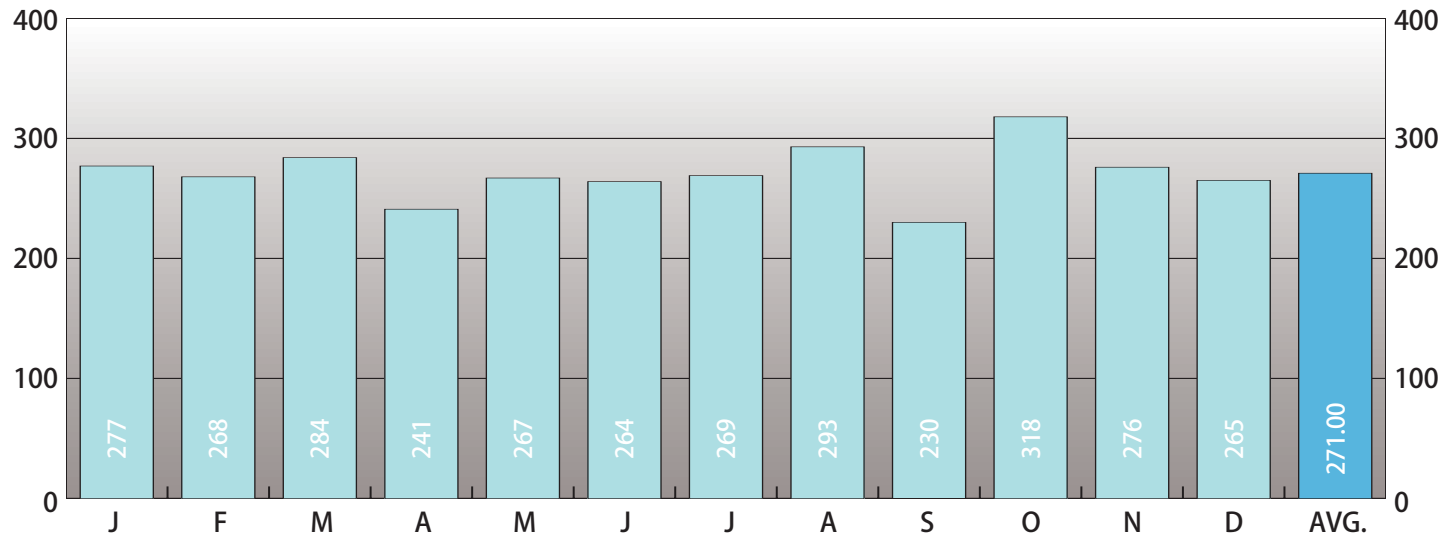
whether the level represents a therapeutic, toxic or lethal concentration. During this process the Pathologists need to have the ability to interact with the Toxicology staff to discuss cases. Toxicologists consult on pharmacology, specimen selection, drug metabolism and elimination kinetics, drug-drug interactions, drug stability, tolerance, postmortem artifacts and provide expert witness testimony in court.

Human performance toxicology deals with living subjects who may have been stopped for impaired driving or the victim of a crime, such as drug facilitated sexual assault. Probation testing, similar to work place drug testing, detects the use of controlled substances by individuals who are being monitored by the courts.

Recently, the Toxicology Laboratory joined an elite group of laboratories by becoming accredited by several national accrediting agencies. In 2004, the CCMEO Toxicology Laboratory was the 13th laboratory to become accredited by the American Board of Forensic Toxicology (ABFT). In 2006, the laboratory received accreditation by the American Society of Crime Lab Directors/Laboratory Accreditation Board (ASCLD LAB). In 2012, the Toxicology Laboratory was included as part of the CCMEO accreditation by the National Association of Medical Examiners (NAME). Very few offices have Toxicology laboratories which possess multiple accreditations; this accomplishment demonstrates the continued focus on promoting scientific excellence.

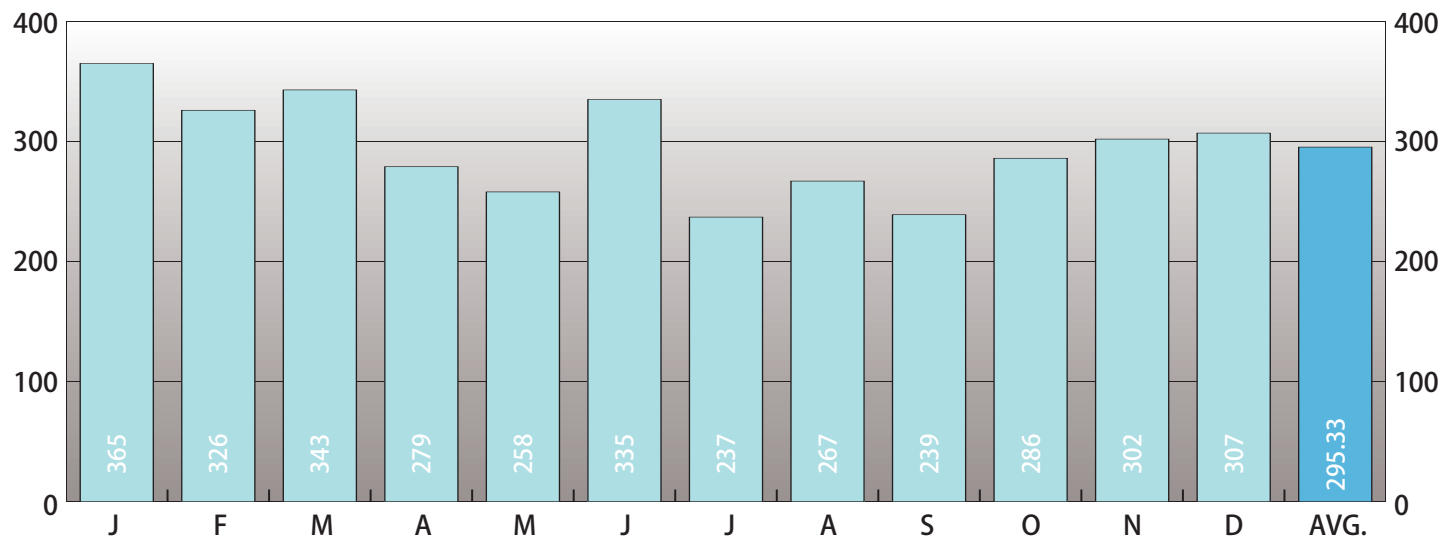
Within the newly realigned Cuyahoga County Regional Forensic Science Laboratory (CCRFSL), the Toxicology Department is a full service laboratory providing postmortem toxicology, human performance toxicology, forensic drug testing, and interpretation and consultation for Cuyahoga County and over 100 surrounding law enforcement, judicial and forensic agencies. More than 3,500 cases are processed each year involving over 50,000 specific analytical assays.

2018 TOXICOLOGY LABORATORY REPORT CASES SUBMITTED BY MONTH FOR THE YEAR 2018



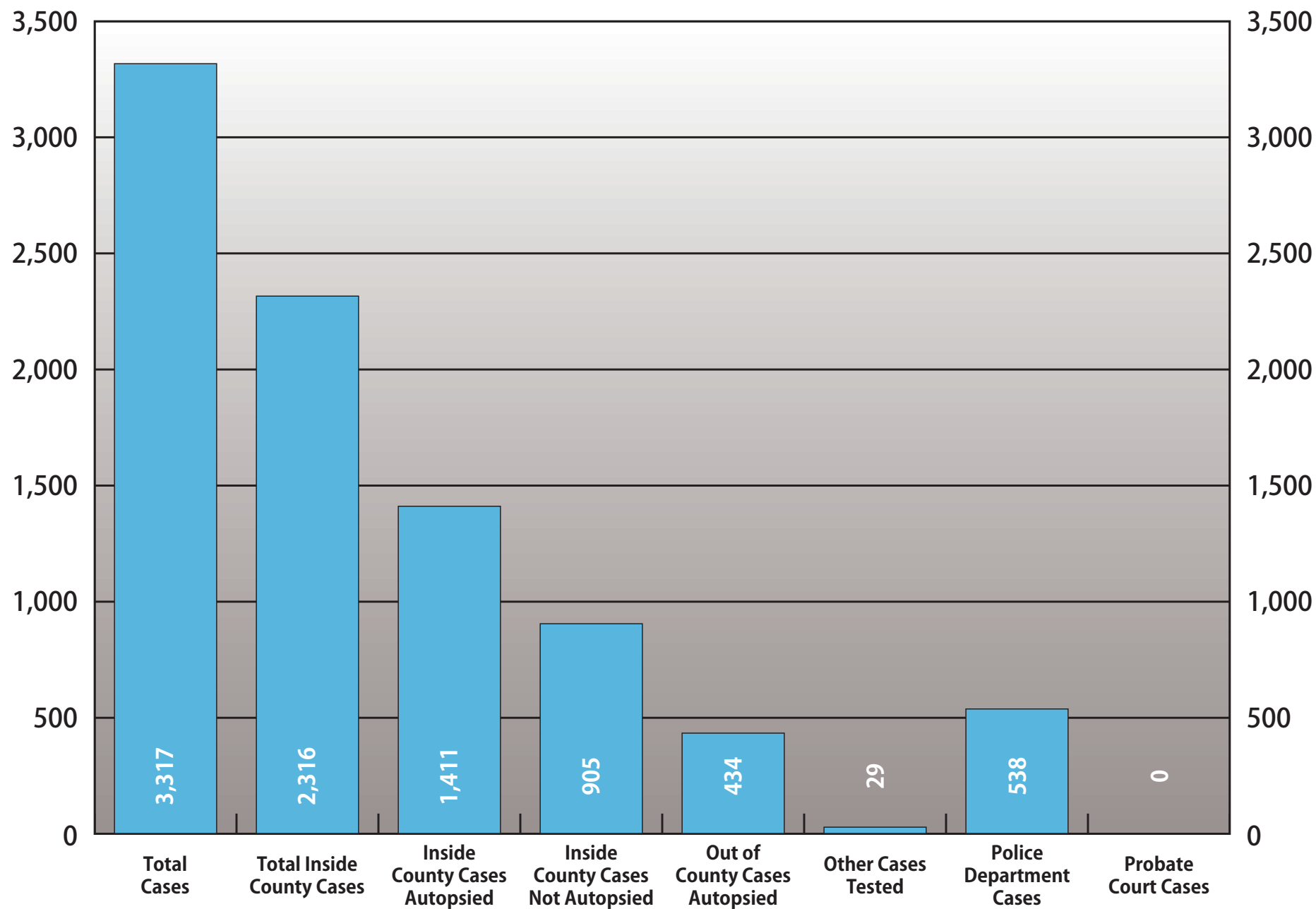
2018
TOTAL CASES
3,252

2018 TOXICOLOGY LABORATORY REPORT CASES COMPLETED BY MONTH FOR THE YEAR 2018



2018 TOXICOLOGY LABORATORY REPORT

2018 CASES SUBMITTED BY TYPE (BASED ON TESTING PERFORMED)



*Includes 12 hospital autopsies.

INCIDENCE OF POISONING (%) IN TESTED INDIVIDUALS

TABLE 82

	Cuyahoga County Medical Examiner's Office Cases			
	Number of Decedents		Number of Fatal Posionings	
Autopsied Cases*	1,411	(60.92%)	458	(82.37%)
Non-Autopsied Cases	905	(39.08%)	98	(17.63%)
Total	2,316	(100.00%)	556	(100.00%)

*Includes 12 hospital autopsies.

NOTE: This table does NOT reflect Coroner's Amended cases.

SAMPLES RECEIVED FROM OUTSIDE REFERRING AGENCIES

TABLE 83

Source	Cases	Number of Samples	% Cases
Cases from Other Coroner's Jurisdictions and Forensic Agencies	29	106	(2.87%)
Decedents Received from Other Coroner's Jurisdictions	434	4,560	(43.01%)
Proficiency Surveys	8	38	(0.79%)
Law Enforcement Agency Cases	538	1,745	(53.32%)
Total	1,009	6,449	(100.00%)

2018 TOXICOLOGY LABORATORY REPORT

INCIDENCE AND FREQUENCY OF POSITIVE FINDINGS*

TABLE 84

Substances	Cuyahoga County Medical Examiner's Laboratory Cases					
	Positive Cases			Fatal Poisonings		
	Number Positive	Total Cases Tested	% Total Cases Tested	Number Positive	Total Poisoning Fatalities Tested	% Total Poisoning Fatalities Tested
(±)-cis-3-Methylfentanyl	1	1572	0.06	1	528	0.19
1,1-Difluoroethane	1	1507	0.07	1	505	0.20
10-Hydroxycarbazepine	3	1572	0.19	1	528	0.19
11-OH-delta-9-THC	112	1572	7.12	24	528	4.55
3,4-Methylenedioxyamphetamine	1	1572	0.06	1	528	0.19
3,4-Methylenedioxymethamphetamine	2	1572	0.13	2	528	0.38
4-ANPP	122	1572	7.76	117	528	22.16
6-Acetylmorphine	200	1572	12.72	191	528	36.17
7-Aminoclonazepam	37	1572	2.35	16	528	3.03
9-Hydroxyrisperidone	4	1118	0.36	1	483	0.21
Acetaminophen	7	118	5.93	4	468	0.85
Acetone	52	1507	3.45	10	505	1.98
Acetyl fentanyl	129	1572	8.21	127	528	24.05
Alpha-Hydroxyalprazolam	4	1572	0.25	3	528	0.57
Alpha-Hydroxymidazolam	10	1572	0.64	4	528	0.76
Alprazolam	63	1572	4.01	50	528	9.47
Amantadine	1	1118	0.09	1	483	0.21
Amiodarone	1	1118	0.09	1	483	0.21
Amitriptyline	24	1118	2.15	14	483	2.90
Amlodipine	2	1118	0.18	2	483	0.41
Amphetamine	75	1572	4.77	43	528	8.14
Anhydroecgonine Methyl Ester	212	1118	18.96	176	483	36.44
Aripiprazole	5	1118	0.45	2	483	0.41
Atenolol	3	1118	0.27	0	483	0.00
Baclofen	1	1118	0.09	0	483	0.00
Benzoyllecgonine	362	1572	23.03	274	528	51.89
Benztropine	1	1118	0.09	1	483	0.21
Brompheniramine	1	1118	0.09	1	483	0.21
Bupropion	17	1118	1.52	9	483	1.86
Bupropion Metabolite(s)	29	1118	2.59	14	483	2.90

TABLE 84

INCIDENCE AND FREQUENCY OF POSITIVE FINDINGS* (continued)

Substances	Cuyahoga County Medical Examiner's Laboratory Cases					
	Positive Cases			Fatal Poisonings		
	Number Positive	Total Cases Tested	% Total Cases Tested	Number Positive	Total Poisoning Fatalities Tested	% Total Poisoning Fatalities Tested
Buspirone	2	1118	0.18	0	483	0.00
Butalbital	3	1572	0.19	1	528	0.19
Butyryl fentanyl	1	1572	0.06	1	528	0.19
Caffeine	234	1572	14.89	98	528	18.56
Carbamazepine	3	1572	0.19	0	528	0.00
Carbamazepine-10,11-epoxide	2	1572	0.13	0	528	0.00
Carbon Monoxide	18	63	28.57	13	21	61.90
Carfentanil	30	1572	1.91	27	528	5.11
Carisoprodol	1	1572	0.06	1	528	0.19
Chlorpheniramine	13	1118	1.16	6	483	1.24
cis/trans-3-Methylfentanyl	3	1572	0.19	3	528	0.57
Citalopram/Escitalopram	36	1118	3.22	13	483	2.69
Clonazepam	14	1572	0.89	9	528	1.70
Clonidine	2	1118	0.18	2	483	0.41
Clozapine	3	1118	0.27	1	483	0.21
Cocaethylene	108	1572	6.87	78	528	14.77
Cocaine	292	1572	18.58	231	528	43.75
Codeine	143	1572	9.10	125	528	23.67
Cotinine	735	1118	65.74	385	483	79.71
Cyanide	1	1	100.00	1	1	100.00
Cyclobenzaprine	28	1118	2.50	19	483	3.93
Cyclopropyl fentanyl	49	1572	3.12	47	528	8.90
Delorazepam	1	1572	0.06	0	528	0.00
Delta-9-THC	253	1572	16.09	70	528	13.26
Delta-9-THC-COOH	280	1572	17.81	84	528	15.91
Desmethyl Clozapine	2	1118	0.18	1	483	0.21
Desmethyloperamide	4	1118	0.36	4	483	0.83
Desmethylertraline	26	1118	2.33	12	483	2.48
Dextromethorphan	26	1118	2.33	15	483	3.11

2018 TOXICOLOGY LABORATORY REPORT

INCIDENCE AND FREQUENCY OF POSITIVE FINDINGS* (continued)

TABLE 84

Substances	Cuyahoga County Medical Examiner's Laboratory Cases					
	Positive Cases			Fatal Poisonings		
	Number Positive	Total Cases Tested	% Total Cases Tested	Number Positive	Total Poisoning Fatalities Tested	% Total Poisoning Fatalities Tested
Dextrorphan/Levorphanol	23	1118	2.06	10	483	2.07
Diazepam	33	1572	2.10	20	528	3.79
Diclazepam	1	1572	0.06	0	528	0.00
Dicyclomine	1	1118	0.09	0	483	0.00
Dihydrocodeine	23	1572	1.46	16	528	3.03
Diltiazem	10	1118	0.89	2	483	0.41
Diphenhydramine	149	1118	13.33	107	483	22.15
Doxepin	17	1118	1.52	11	483	2.28
Doxylamine	17	1118	1.52	7	483	1.45
Duloxetine	4	1118	0.36	1	483	0.21
Ecgonine Methyl Ester	255	1118	22.81	208	483	43.06
Ephedrine/Pseudoephedrine	6	1118	0.54	2	483	0.41
Ethanol	506	1507	33.58	161	505	31.88
Etizolam	1	1118	0.09	0	483	0.00
Fentanyl	427	1572	27.16	377	528	71.40
Flecainide	1	1118	0.09	0	483	0.00
Fluconazole	11	1118	0.98	6	483	1.24
Fluoxetine	27	1118	2.42	14	483	2.90
Furanyl fentanyl	3	1572	0.19	3	528	0.57
Gabapentin	44	1118	3.94	24	483	4.97
Gabapentin breakdown	119	1118	10.64	79	483	16.36
Haloperidol	5	1118	0.45	1	483	0.21
Hydrocodone	37	1572	2.35	20	528	3.79
Hydromorphone	15	1572	0.95	5	528	0.95
Hydroxyzine	16	1118	1.43	13	483	2.69
Ibuprofen	8	1572	0.51	2	528	0.38
Isopropanol	12	1507	0.80	2	505	0.40
Ketamine	4	1118	0.36	0	483	0.00
Lamotrigine	27	1118	2.42	15	483	3.11

TABLE 84

INCIDENCE AND FREQUENCY OF POSITIVE FINDINGS* (continued)

Substances	Cuyahoga County Medical Examiner's Laboratory Cases					
	Positive Cases			Fatal Poisonings		
	Number Positive	Total Cases Tested	% Total Cases Tested	Number Positive	Total Poisoning Fatalities Tested	% Total Poisoning Fatalities Tested
Levamisole	115	1118	10.29	92	483	19.05
Levetiracetam	18	1572	1.15	6	528	1.14
Lidocaine	59	1118	5.28	27	483	5.59
Lidocaine Mtb. (MEGX)	24	1118	2.15	13	483	2.69
Loperamide	2	1118	0.18	2	483	0.41
Lorazepam	37	1572	2.35	12	528	2.27
m-Chlorophenylpiperazine	42	1118	3.76	27	483	5.59
Memantine	1	1118	0.09	0	483	0.00
Meperidine	2	1118	0.18	2	483	0.41
Meprobamate	3	1572	0.19	3	528	0.57
Metaxalone	2	1572	0.13	2	528	0.38
Methadone	13	1118	1.16	4	483	0.83
Methadone Mtb. (EDDP)	9	1118	0.81	4	483	0.83
Methadone Mtb. (EMDP)	2	1118	0.18	0	483	0.00
Methamphetamine	56	1572	3.56	37	528	7.01
Methanol	3	1507	0.20	0	505	0.00
Methocarbamol	1	1572	0.06	0	528	0.00
Methoxyacetyl fentanyl	20	1572	1.27	20	528	3.79
Metoclopramide	3	1118	0.27	2	483	0.41
Metoprolol	34	1118	3.04	19	483	3.93
Midazolam	13	1572	0.83	4	528	0.76
Mirtazapine	29	1118	2.59	20	483	4.14
Mitragynine	1	1118	0.09	1	483	0.21
Morphine	266	1572	16.92	214	528	40.53
Naloxone	22	1572	1.40	14	528	2.65
Naproxen	4	1572	0.25	2	528	0.38
N-Ethyl Pentylone	2	2	100.00	0	0	0.00
Nicotine	555	1118	49.64	314	483	65.01
Nifedipine	1	1118	0.09	0	483	0.00
N-methyl norfentanyl	15	1572	0.95	14	528	2.65
Norcitalopram	27	1118	2.42	11	483	2.28

2018 TOXICOLOGY LABORATORY REPORT

INCIDENCE AND FREQUENCY OF POSITIVE FINDINGS* (continued)

TABLE 84

Substances	Cuyahoga County Medical Examiner's Laboratory Cases					
	Positive Cases			Fatal Poisonings		
	Number Positive	Total Cases Tested	% Total Cases Tested	Number Positive	Total Poisoning Fatalities Tested	% Total Poisoning Fatalities Tested
Norclozapine	2	1118	0.18	1	483	0.21
Norcocaine	123	1118	11.00	104	483	21.53
Nordiazepam	49	1572	3.12	29	528	5.49
Nordoxepin	13	1118	1.16	8	483	1.66
Norfentanyl	371	1572	23.60	336	528	63.64
Norfluoxetine	17	1118	1.52	10	483	2.07
Norketamine	1	1118	0.09	0	483	0.00
Norpseudoephedrine	2	1572	0.13	0	528	0.00
Norsertaline	34	1118	3.04	18	483	3.73
Nortramadol	32	1118	2.86	20	483	4.14
Nortriptyline	24	1118	2.15	12	483	2.48
Norvenlafaxine	7	1118	0.63	5	483	1.04
o/m/p-Fluoroisobutyl fentanyl	1	1572	0.06	1	528	0.19
O-Desmethyltramadol	36	1118	3.22	20	483	4.14
O-Desmethylvenlafaxine	14	1118	1.25	9	483	1.86
Olanzapine	12	1118	1.07	7	483	1.45
Oxazepam	21	1572	1.34	11	528	2.08
Oxcarbazepine	2	1572	0.13	0	528	0.00
Oxycodone	70	1572	4.45	37	528	7.01
Oxymorphone	13	1572	0.83	7	528	1.33
Paroxetine	10	1118	0.89	7	483	1.45
Phencyclidine	20	1118	1.79	7	483	1.45
Phenobarbital	13	1572	0.83	5	528	0.95
Phentermine	2	1572	0.13	1	528	0.19
Phenytoin	10	1572	0.64	1	528	0.19
Pregabalin	10	1118	0.89	5	483	1.04
Prochlorperazine	1	1118	0.09	0	483	0.00
Promethazine	9	1118	0.81	7	483	1.45
Propranolol	4	1118	0.36	4	483	0.83
Propylene Glycol	2	4	50.00	1	2	50.00
Pseudoephedrine	5	1572	0.32	1	528	0.19
Quetiapine	20	1118	1.79	11	483	2.28

TABLE 84

INCIDENCE AND FREQUENCY OF POSITIVE FINDINGS* (continued)

Cuyahoga County Medical Examiner's Laboratory Cases						
Substances	Positive Cases			Fatal Poisonings		
	Number Positive	Total Cases Tested	% Total Cases Tested	Number Positive	Total Poisoning Fatalities Tested	% Total Poisoning Fatalities Tested
Quetiapine Metabolite	38	1118	3.40	23	483	4.76
Risperidone	2	1118	0.18	0	483	0.00
Salicylate	1	118	0.85	0	468	0.00
Sertraline	43	1118	3.85	19	483	3.93
Sildenafil	1	1118	0.09	1	483	0.21
β-hydroxy fentanyl	100	1572	6.36	95	528	17.99
Temazepam	20	1572	1.27	9	528	1.70
Ticlopidine	1	1118	0.09	1	483	0.21
Tizanidine	1	1118	0.09	1	483	0.21
Topiramate	5	1572	0.32	3	528	0.57
TOTAL delta-9-THC-COOH	33	1572	2.10	18	528	3.41
Tramadol	52	1118	4.65	34	483	7.04
Trazodone	61	1118	5.46	38	483	7.87
Urine Glucose	78	727	10.73	36	354	10.17
Urine Ketone Bodies	30	727	4.13	9	354	2.54
Valproic Acid	2	1572	0.13	1	528	0.19
Venlafaxine	14	1118	1.25	10	483	2.07
Ziprasidone	3	1118	0.27	3	483	0.62
Zolpidem	15	1118	1.34	10	483	2.07
Zonisamide	3	1572	0.19	0	528	0.00

*To compare data from year to year one must use the Toxicology Laboratory Report legends, since the analytical approach (i.e. the components of the groups) changes slightly from year to year.

2018 TOXICOLOGY LABORATORY REPORT

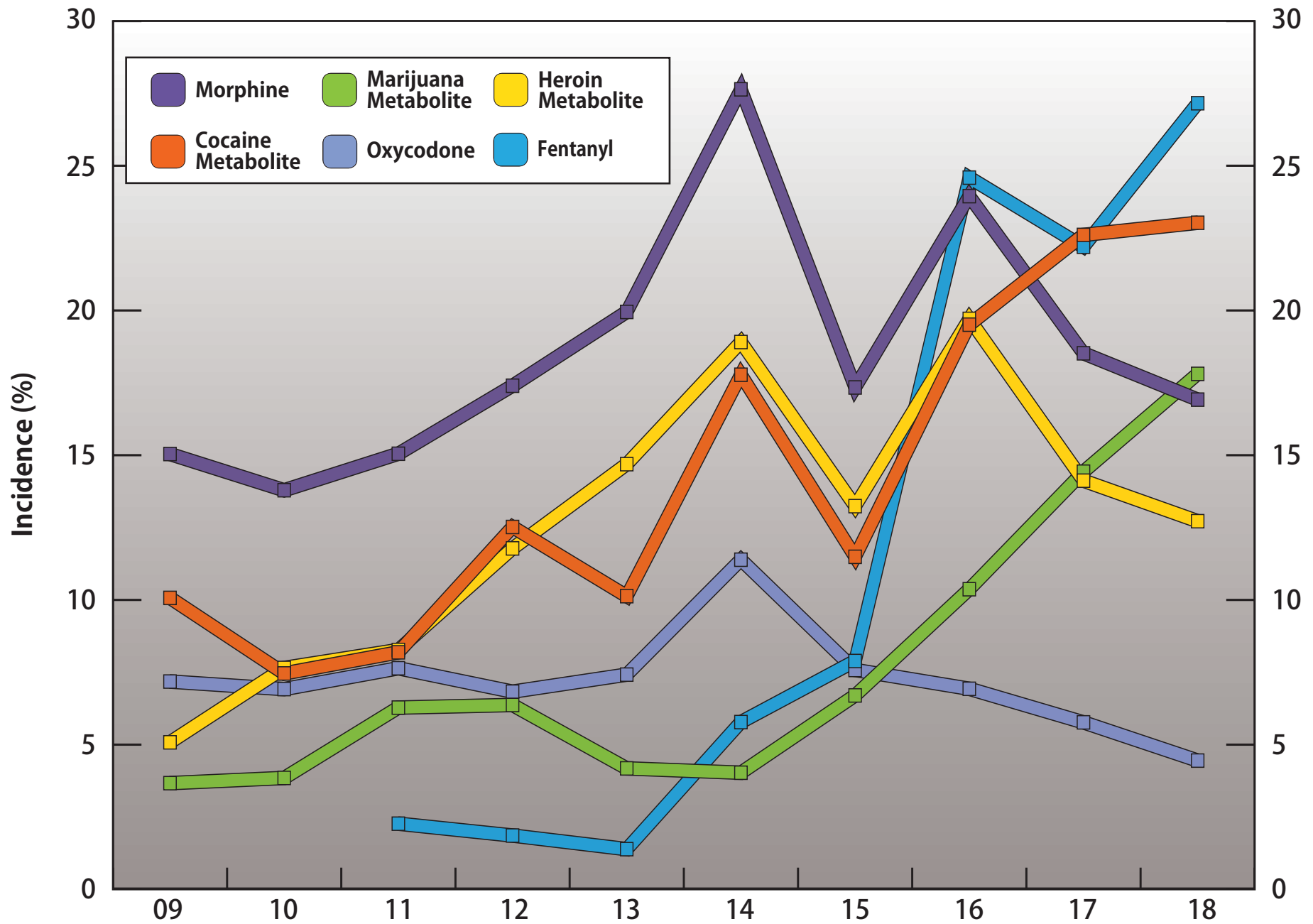
2016 - 2018 INCIDENCE OF ANALYTES IN POSITIVE CASES*

TABLE 85

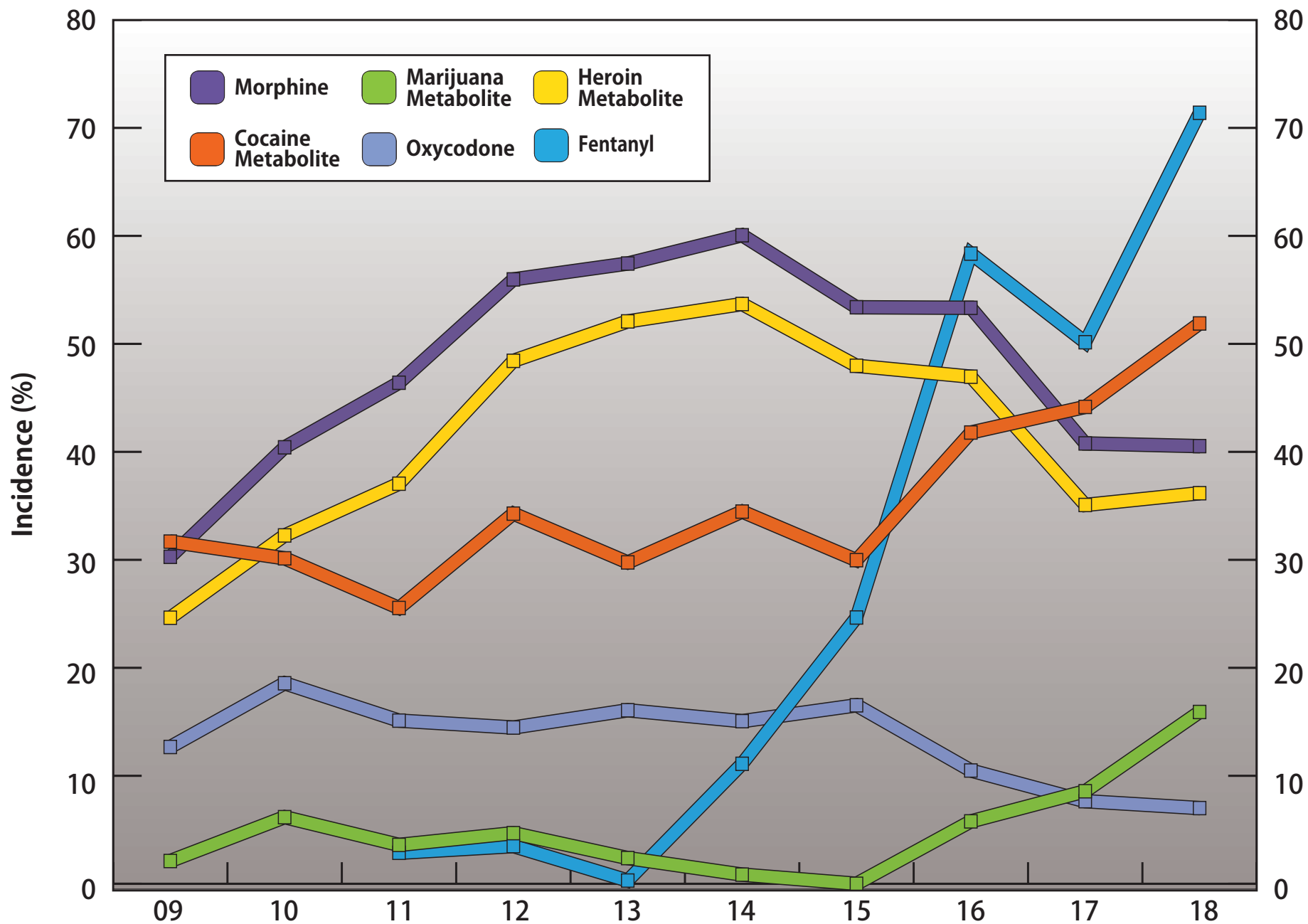
Medical Examiner's Laboratory Cases											
2016				2017				2018			
All Cases	(%)	Fatal Poisonings	(%)	All Cases	(%)	Fatal Poisonings	(%)	All Cases	(%)	Fatal Poisonings	(%)
Ethanol	28.61	Carbon Monoxide	64.71	Ethanol	32.11	Carbon Monoxide	62.07	Ethanol	33.58	Fentanyl	71.40
Fentanyl	24.59	Fentanyl	58.36	Carbon Monoxide	29.33	Fentanyl	50.15	Carbon Monoxide	28.57	Carbon Monoxide	61.90
Carbon Monoxide	24.03	Morphine	53.34	Benzoyllecgonine	22.61	Benzoyllecgonine	44.16	Fentanyl	27.16	Benzoyllecgonine	51.89
Morphine	23.95	6-Acetylmorphine	46.96	Fentanyl	22.20	Morphine	40.78	Benzoyllecgonine	23.03	Cocaine	43.75
Benzoyllecgonine	19.51	Benzoyllecgonine	41.79	Morphine	18.52	Norfentanyl	37.99	Ecgonine Methyl Ester	22.81	Ecgonine Methyl Ester	43.06
6-Acetylmorphine	19.17	Codeine	38.75	Cocaine	17.73	Cocaine	37.28	Anhydroecgonine Methyl Ester	18.96	Morphine	40.53
Codeine	16.13	Ethanol	32.61	Ecgonine Methyl Ester	17.12	6-Acetylmorphine	35.08	Cocaine	18.58	Anhydroecgonine Methyl Ester	36.44
Diphenhydramine	14.25	Cocaine	31.61	Norfentanyl	16.53	Ethanol	33.44	Delta-9-THC-COOH	17.81	6-Acetylmorphine	36.17
Cocaine	13.98	Diphenhydramine	23.1	Delta-9-THC-COOH	14.43	Ecgonine Methyl Ester	32.44	Morphine	16.92	Ethanol	31.88
delta-9-THC-COOH	10.37	Anhydroecgonine Methyl Ester	17.17	Delta-9-THC	14.32	Carfentanil	28.68	Delta-9-THC	16.09	Acetyl fentanyl	24.05
Delta-9-THC	10.26	Cocaethylene	13.07	6-Acetylmorphine	14.12	Anhydroecgonine Methyl Ester	25.42	Diphenhydramine	13.33	Codeine	23.67
Anhydroecgonine Methyl Ester	7.05	Phenytoin	11.11	Diphenhydramine	13.61	Codeine	24.74	6-Acetylmorphine	12.72	4-ANPP	22.16
Oxycodone	6.93	Alprazolam	11.09	Anhydroecgonine Methyl Ester	12.66	Diphenhydramine	22.58	Norcocaine	11.00	Diphenhydramine	22.15
Cocaethylene	5.82	Oxycodone	10.49	Levamisole	11.63	Levamisole	22.41	Gabapentin breakdown	10.64	Norcocaine	21.53
Alprazolam	5.59	Nordiazepam	8.81	Carfentanil	11.38	Norcocaine	16.05	Levamisole	10.29	Levamisole	19.05
Nordiazepam	5.19	Acetyl Fentanyl	8.51	Codeine	10.41	Quinine/Quinidine	15.89	Codeine	9.10	β-hydroxy fentanyl	17.99
Phenytoin	5.07	Carfentanil	8.05	Norcocaine	7.97	Cocaethylene	15.87	Acetyl fentanyl	8.21	Gabapentin breakdown	16.36
Lidocaine	4.95	Diazepam	6.53	Cocaethylene	7.71	Gabapentin breakdown	12.54	4-ANPP	7.76	Delta-9-THC-COOH	15.91
11-OH-delta-9-THC	4.55	Tramadol	6.46	Quinine/Quinidine	7.53	Quetiapine Metabolite	9.03	11-OH-delta-9-THC	7.12	Cocaethylene	14.77
Tramadol	4.43	delta-9-THC-COOH	5.78	Gabapentin breakdown	7.24	Alprazolam	9.02	Cocaethylene	6.87	Delta-9-THC	13.26
Trazodone	4.20	Hydrocodone	5.78	11-OH-delta-9-THC	6.13	Delta-9-THC-COOH	8.57	β-hydroxy fentanyl	6.36	Alprazolam	9.47
Citalopram/Escitalopram	4.13	Delta-9-THC	5.02	Oxycodone	5.77	Oxycodone	7.65	Acetaminophen	5.93	Cyclopropyl fentanyl	8.90
Acetyl Fentanyl	4.08	Trazodone	4.85	Quetiapine Metabolite	5.34	Trazodone	6.86	Trazodone	5.46	Amphetamine	8.14

*A "Positive Case" is one wherein a chemical substance was detected from Table 84. Percentages are based on the total number of cases tested in each category.

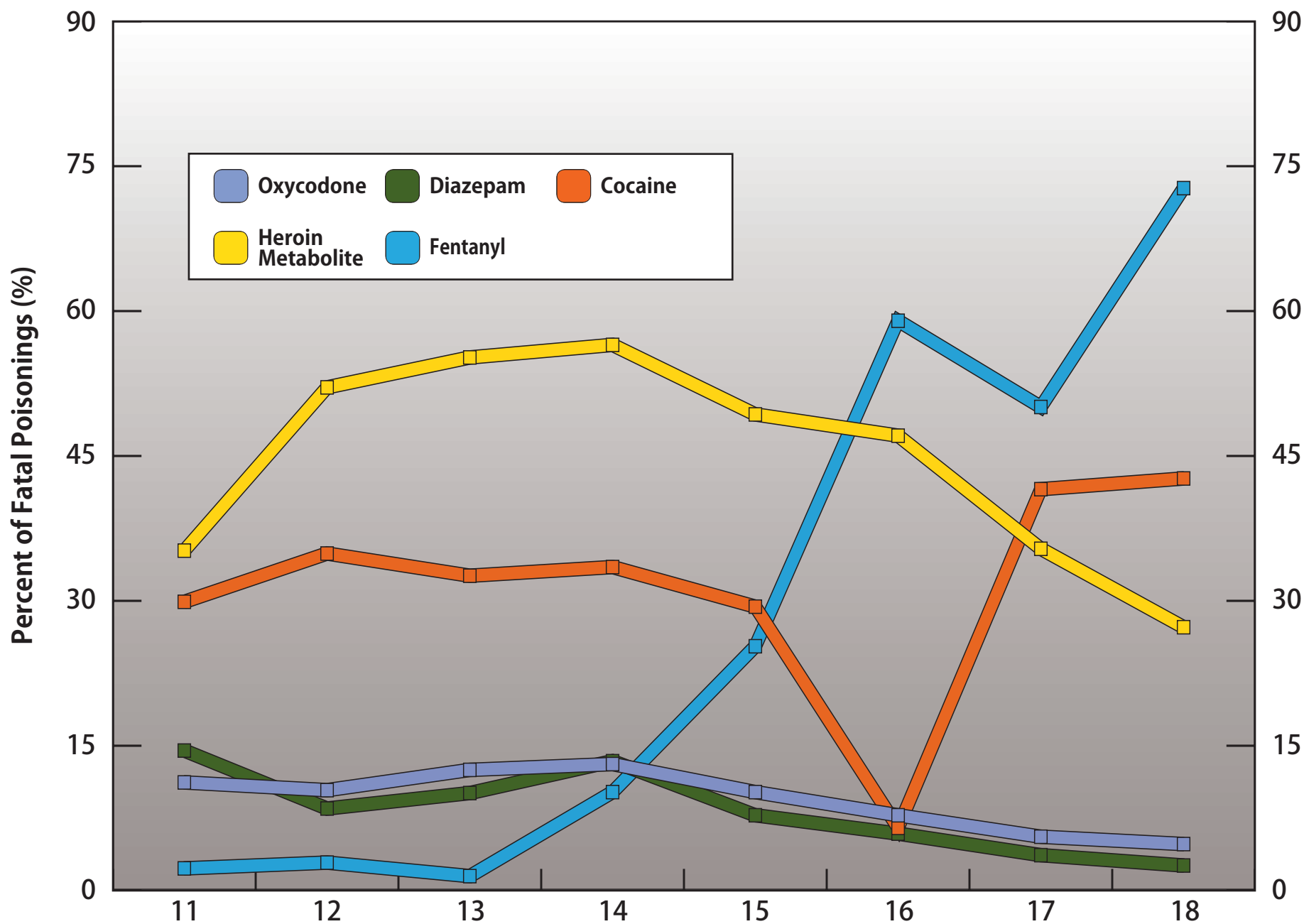
INCIDENCE OF POSITIVE FINDINGS FROM ALL CUYAHOGA COUNTY MEDICAL EXAMINER'S CASES



INCIDENCE OF POSITIVE FINDINGS FROM POISONING FATALITIES



2018 TOXICOLOGY LABORATORY REPORT
MOST COMMON SUBSTANCES INVOLVED IN FATAL POISONINGS



2018 TOXICOLOGY LABORATORY REPORT

TESTING FREQUENCY BY DRUG GROUPS

TABLE 86

Drug Group	Medical Examiner's Specimens Tested	Out of County Autopsy Cases	Police Cases	Other Cases	Special C.C.M.E.O. Cases	Totals
Volatile Screen & Confirmation	2247	527	568	15	0	3357
Methanol Confirm.	3	0	0	0	0	3
Formaldehyde Confirm.	3	0	0	0	0	3
Acidic Neutral Drugs	71	18	131	3	0	223
Carbon Monoxide	74	30	0	0	0	104
CO Confirmation	19	13	0	0	0	32
Glycols Screen & Confirm	8	0	0	0	0	8
EMIT: Amine Class	14	1	272	1	0	288
EMIT: Benzodiazepines	14	1	272	1	0	288
EMIT: Cannabinoids	14	1	272	1	0	288
EMIT: Cocaine Metb.	15	1	272	1	0	289
EMIT: Fentanyl	14	2	272	1	0	289
EMIT: Opiates	14	1	272	1	0	288
EMIT: Phencyclidine	14	1	271	1	0	287
Basic Drugs by GC/MS	1145	261	257	7	0	1670
Acetaminophen Screen	1045	227	0	4	0	1276
Salicylate Screen	1042	227	0	4	0	1273
Salicylate Confirm.	1	0	0	0	0	1
Xanthines	5	0	0	0	0	5
Clinical Chemistry	489	136	0	2	0	627
Glucose/Ketone bodies	728	165	1	0	0	894
Phencyclidine by GC/MS	0	0	9	0	0	9
Opiate Hydrolysis GC/MS	4	0	1	0	0	5
Cocaine/Mtb GC/MS	504	61	103	11	0	679
Cannabinoids GC/MS	35	3	144	1	0	183
Opiates by GC/MS	672	105	85	5	0	867
Acidic Neutral Drugs by GC/MS	66	13	105	3	0	187
Basic Drugs by GC/MS	759	172	244	4	0	1179
Benzo. Confirmation GC/MS	292	73	193	7	0	565
Amines Confirmation by LC-MS/MS	259	84	62	1	0	406
Volatiles by GC/MS	1	0	0	2	0	3
Gaba/Pregab by LC-MS/MS	38	4	2	1	0	45
Cannabinoids by LC-MS/MS	335	71	117	1	0	524
Fentanyl and Analogs by LC-MS/MS	715	107	130	14	0	966
Amphetamine ELISA	1630	423	320	15	0	2388
Barbiturates ELISA Screen	1630	423	320	15	0	2388
Benzodiazepines ELISA Screen	1630	423	320	15	0	2388
Cannabinoids ELISA Screen	1630	423	320	15	0	2388
Carisoprodol ELISA Screen	1630	423	320	15	0	2388
Cocaine Mtb. ELISA Screen	1630	423	320	15	0	2388
Fentanyl ELISA Screen	1630	423	320	15	0	2388
Methamphetamine ELISA Screen	1630	423	320	15	0	2388
Opiate ELISA Screen	1630	423	320	15	0	2388
Oxycodone ELISA Screen	1630	423	320	15	0	2388
Phencyclidine ELISA Screen	1630	423	320	15	0	2388
Tricyclic Antidepressants ELISA Screen	1630	423	320	15	0	2388
Methadone ELISA Screen	1630	423	320	15	0	2388
Zolpidem ELISA Screen	1630	423	320	15	0	2388
Buprenorphine ELISA Screen	1630	423	320	15	0	2388
Sent to Reference Lab	434	146	70	8	0	658
Total Tests Performed	35543	8796	8925	325	0	53589

2018 TOXICOLOGY LABORATORY REPORT

AGENTS INCLUDED IN DRUG GROUPS

- 1) **VOLATILES:** Acetaldehyde, Acetone, Acetonitrile*, Butane, Chloroform*, Dichloromethane*, Ethanol, Ethyl Acetate*, Formaldehyde, Isopropanol, Methane, Methanol, Paraldehyde*, Propane, Toluene*. **ETHANOL, ACETONE, ISOPROPANOL, and METHANOL CONFIRMATION(s) by alternative GC column and/or alternative specimens. METHANOL is differentiated from FORMALDEHYDE by Colorimetry (Qualitative)**
- 2) **Sedatives, Hypnotics, Anti-Epileptic and Other Acidic/Neutral Drugs:** Amobarbital, Butalbital, Caffeine, Carbamazepine, Carisoprodol, Glutethimide, Ibuprofen, Levetiracetam, Mephenytoin, Meprobamate, Metaxalone, Naproxen, Pentobarbital, Pentoxifylline, Phenobarbital, Phenytoin, Primidone, Secobarbital, Theophylline, Topiramate
- 3) **CARBON MONOXIDE*(Carboxyhemoglobin) by CO-Oximetry:** Carbon Monoxide, Methemoglobin, Hemoglobin; **CARBON MONOXIDE CONFIRMATION by Spectrophotometry and/or Microdiffusion**
- 4) **GLYCOLS*:** Ethylene Glycol, Propylene Glycol **Screened and Confirmed by GC/MS**
- 5) **Gabapentin/Pregabalin by LC-MS/MS (mg/L)**
- 6) **EMIT*SCREEN: SYMPATHOMIMETIC AMINES (SMAs)** (target = d-Amphetamine); **BENZODIAZEPINES** (Target= Oxazepam); **COCAINE** (Target= Benzoyllecgonine (a cocaine metabolite)); **CANNABINOIDS** (Target= 11-nor-Δ-9-THC-COOH (a marijuana metabolite)); **OPIATES** (Target= Morphine); **PHENCYCLIDINE** (Target= Phencyclidine); **FENTANYL (Target= Fentanyl)**
- 7) **ELISA (Enzyme-Linked ImmunoSorbent Assay) SCREEN: SMAs** (Target = d-Amphetamine); **Barbiturates** (Target = Pentobarbital); **Benzodiazepines** (Target = Alprazolam); **Cannabinoids** (Target = 11-nor-Δ-9-THC-COOH (a marijuana metabolite)); **Carisoprodol** (Target = Carisoprodol); **Cocaine Metabolite** (Target = Benzoyllecgonine); **Fentanyl** (Target = Fentanyl); **Methamphetamine** (Target = d-Methamphetamine); **Oxycodone** (Target = Oxycodone); **Phencyclidine** (Target = Phencyclidine); **Tricyclic Antidepressants** (Target = Nortriptyline); **Methadone** (Target = Methadone); **Opiates** (Target = Morphine); **Zolpidem** (Target = Zolpidem); **Buprenorphine** (Target = Buprenorphine)
- 8) **BASIC DRUGS by GC/MS (Quantitation and Confirmation):** Amantadine, Amitriptyline, Amoxapine, Amphetamine, Atropine, Benzotropine, Brompheniramine, Bupivacaine, Bupropion, Bupropion Metabolites, Buspirone, Caffeine, Carbinoxamine, Chlorphenylpiperazine, Chlorpheniramine, Chlorpromazine, Citalopram, Clomipramine, Clozapine, Cocaethylene, Cocaine, Codeine, Cocaine and metabolites, Cotinine, Cyclizine, Cyclobenzaprine, Desalkylflurazepam, Desipramine, Desmethyl Chlordiazepoxide, Desmethyl Clomipramine, Desmethyl Clozapine, Desmethylsertraline, Desmethylvenlafaxine, Dextromethorphan, Diazepam, Diethylpropion, Diphenhydramine, Disopyramide, Diltiazem, Doxepin, Doxylamine, Ecgonine methyl ester, Ephedrine/Pseudoephedrine, Fenfluramine, Fentanyl, Fluoxetine, Fluvoxamine, Guaifenesin, Haloperidol, Hydrocodone, Hydroxyzine, Imipramine, Ketamine, Laudanosine, Lidocaine, Lidocaine mb (MEGX), Loxapine, Maprotiline, Meclizine, Meperidine, Mephentermine, Mesoridazine, Methadone, Methadone primary mb (EDDP), Methadone secondary mb (EMDP), Methamphetamine, Methylene-dioxyamphetamine (MDA), Methylenedioxyamphetamine (MDMA), Methylenedioxypropylvalerone (MDPV), Methylphenidate, Metoprolol, Mexiletine, Midazolam, Mirtazapine, Nefazodone, Nicotine, Nordiazepam, Nordoxepin, Norfluoxetine, Normeperidine, Norpropoxyphene, Nortriptyline, Norverapamil, Olanzapine, Orphenadrine, Oxycodone, Papaverine, Paroxetine, Pentazocine, Pentoxifylline, Perphenazine, Phencyclidine, beta-Phenethylamine, Pheniramine, Phendimetrazine, Phenmetrazine, Phentermine, Phenylpropanolamine, Phentoloxamine, Procaine, Promethazine, Propoxyphene, Propranolol, Protriptyline, Pseudoephedrine, Pyrilamine, Quetiapine, Quinidine, Quinine, Sertraline, Thioridazine, Tramadol, Tranylcypromine, Trazodone, Trihexylphenidyl, Trimipramine, Venlafaxine, Verapamil, Zolpidem
- 9) **ACETAMINOPHEN SCREEN:** Acetaminophen **by Colorimetry (Qualitative).**
- 10) **SALICYLATE SCREEN:** Salicylate (Aspirin) **by Colorimetry (Qualitative), SALICYLATE CONFIRMATION by Gas Chromatography.**
- 11) **XANTHINES by GC/MS:** Acetaminophen, Caffeine.
- 12) **CLINICAL CHEMISTRIES (CHEM7):** Ketones, pH, Specific Gravity, and Electrolytes (Sodium, Potassium, Chloride, TCO₂, Glucose, Urea, Creatinine)
- 13) **COCAINE CONFIRMATION by GC/MS:** Anhydroecgonine methyl ester, Benzoyllecgonine, Cocaine, Cocaethylene, Ecgonine ethyl ester*, Ecgonine methyl ester
- 14) **CANNABINOIDS by GC/MS:** TOTAL 11-nor-Δ-9-THC-COOH (a marijuana metabolite); **CANNABINOIDS by LC/MS/MS:** Cannabinoids (ng/mL; mcg/L): Δ-9-THC, 11-OH-Δ-9-THC (a marijuana metabolite), 11-nor-Δ-9-THC-COOH (a marijuana metabolite)
- 15) **OPIATES by GC/MS** (ng/mL): Morphine, 6-Acetylmorphine (heroin metabolite), Codeine, Hydrocodone, Dihydrocodeine, Hydromorphone, Norcodeine*, Oxycodone; Oxymorphone. **TOTAL OPIATES by GC/MS-Hydrolysis followed by OPIATES by GC/MS**
- 16) **BENZODIAZEPINE CONFIRMATION by GC/MS:** Alprazolam/ metabolite, Diazepam/ metabolites, Clonazepam, Lorazepam, Midazolam/metabolite
- 17) **SYMPATHOMIMETIC AMINES CONFIRMATION by GC/MS analysis** (ng/mL): Amantadine, Amphetamine, beta-Phenethylamine, MDEA, Methamphetamine, Methylenedioxyamphetamine (MDA), Methylenedioxyamphetamine (MDMA), Phentermine, Ephedrine/Pseudoephedrine
- 18) **GHB by GC/MS** (mg/L): Gamma-hydroxybutyric acid (gamma hydroxybutyrate)
- 19) **FENTANYL and ANALOGS by LC/MS/MS** (ng/mL): N-methyl norfentanyl, Norfentanyl, Norcarfentanil, Methoxyacetyl fentanyl, Acetyl fentanyl, Beta-hydroxy fentanyl, Benzyl fentanyl, 4-ANPP, p-Methoxyacetyl fentanyl, Acryl fentanyl, Alfentanil, Fentanyl, Fluoro Acryl fentanyl, Fluoro fentanyl, Cyclopropyl fentanyl, 2-Furanyl fentanyl, Fentanyl carbamate, trans-3-Methylfentanyl, Crotonyl fentanyl, Carfentanil, cis-3-Methylfentanyl, Butyryl fentanyl, FIBF, Sufentanil, Phenyl fentanyl, Cyclopentenyl fentanyl
- 20) **SENT OUT TO REFERENCE LABS:** Synthetic Cannabinoids and Synthetic Cathinones, Cyanide, 7-amino Flunitrazepam, Flunitrazepam, LSD, Psilocin, Valproic Acid, **HEAVY METAL SCREEN:** (Antimony, Arsenic, Lead, Barium, Cadmium, Bismuth, Mercury, Selenium) or any other drugs not listed above

***BY REQUEST ONLY; ABBREVIATIONS:** POS=Positive; NEG=Negative; UNS=Specimen unsuitable for testing; NTD=Not Done; QNS=Quantity insufficient for analysis; CHEM7=Clinical Chemistry; <=less than; >=greater than; LRL= Lower reporting limit; C.L. = Confidence Level. **UNITS FOR VOLATILES:** 100 mg/dL ≡ 0.100 g/dL ≡ 0.100 g/%. **UNITS:** 1 mg/L = 1000 μg/L = 1000 ng/mL

2018 TOXICOLOGY LABORATORY REPORT

PROFICIENCY STUDIES

TABLE 87

Agency	Survey Type	Number of Surveys	Number of Samples	
			Blood	Urine
College of American Pathologists	Toxicology	3	12	3
College of American Pathologists	Blood Volatiles	3	15	0
College of American Pathologists	Forensic Toxicology	2	6	2
Total		8	33	5

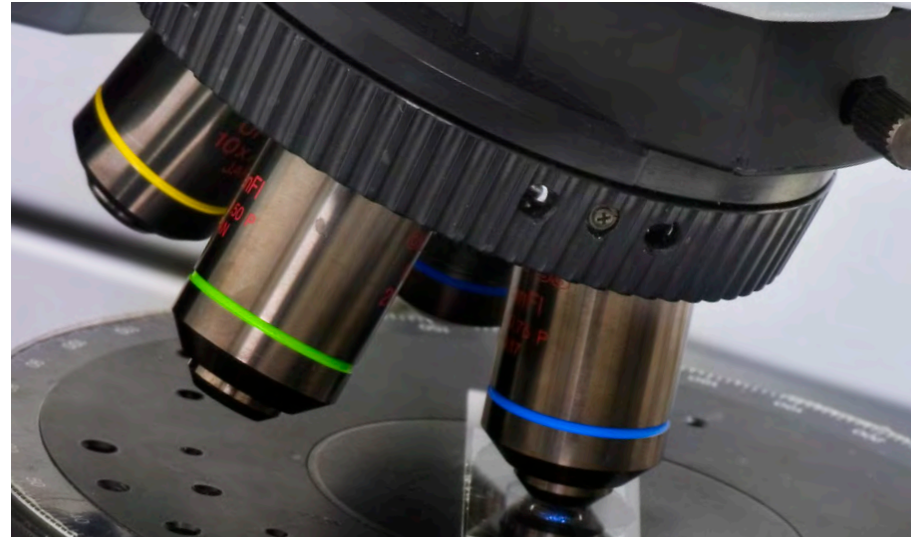
In 2018 the Cuyahoga County Medical Examiner's Office Toxicology Laboratory participated in 8 proficiency surveys.

The Trace Evidence Unit was formed from within the Cuyahoga County Coroner's Office in the early 1950's as a response to the burgeoning field of Forensic Science. It was realized early that reliable and accurate scientific analysis of evidentiary materials would not only compliment the determination of cause and manner of death but would serve the judicial needs of the Court System and by extension, the citizens of Cuyahoga County.

Initially tasked with the chemical and immunological detection of biological fluids, the Trace Evidence Unit soon branched into the microscopic examination of trace evidence materials such as hairs, fibers, paint, and soil.

The 1970's through the 1990's brought about an explosion of compact and affordable scientific instrumentation. The Trace Evidence Unit, realizing the usefulness of augmenting chemical, immunological, and microscopic forensic examination with scientific instrumentation embarked on a process of acquiring instrumentation that would allow for the identification, individualization, and/or discrimination of trace evidence materials.

The Trace Evidence Unit currently employs three Forensic Scientists. The responsibilities of the Trace Evidence Unit include the examination and sample collection from the hands and bodies of victims of violent death as well as the examination of clothing items received with the victims. A clothing examination may include the determination of bullet / sharp instrument damage, the determination of range of fire, and the collection of trace evidence materials such as fibers, paint, or other debris. The Trace Evidence Unit is also responsible for the examination and comparison of materials such as hairs, fibers, paint, imprints/impressions, pressure sensitive tape, gunshot residue, polymers, and unknown materials.



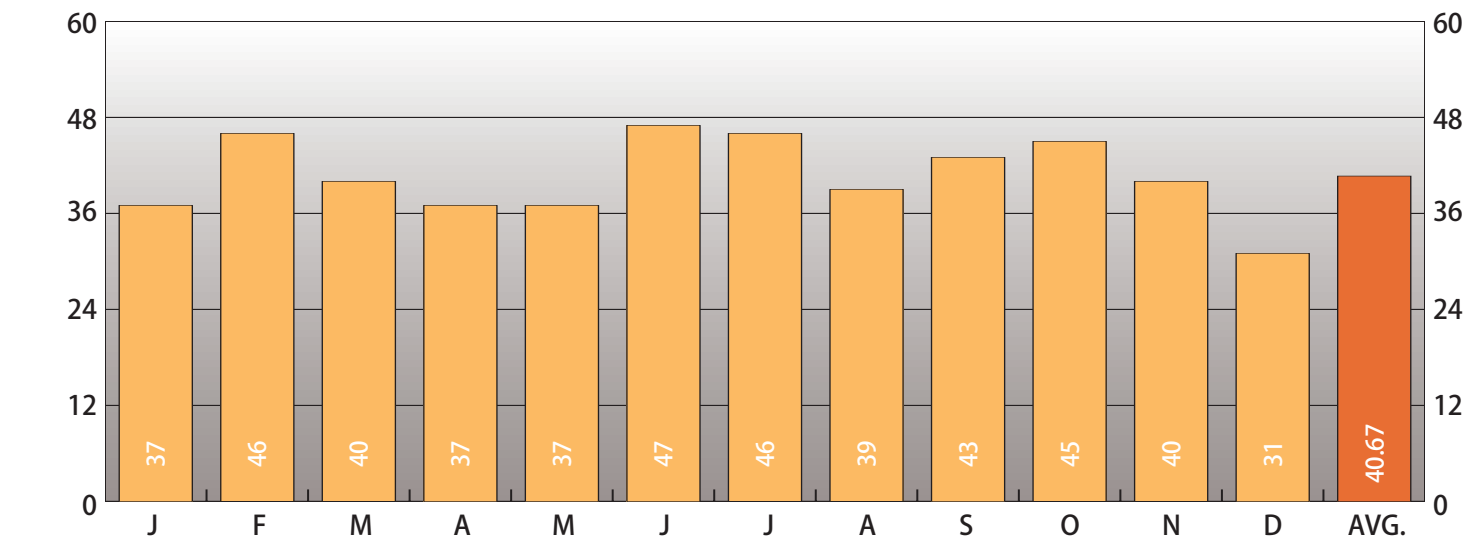
The Trace Evidence Unit is equipped with research grade stereo, compound, comparison, and polarized light microscopic equipment as well as cutting edge scientific instrumentation such as a Fourier Transform Infrared Spectrometer, a Raman Spectrometer, a UV/VIS/NIR Microspectrophotometer, a Scanning Electron Microscope, and an Energy Dispersive X-ray Spectrometer.

Outside of the laboratory, the Trace Evidence Unit may assist Law Enforcement Agencies with the collection and processing of complex crime scenes. The Trace Evidence Unit also engages in training for Law Enforcement Agencies. Training on crime scene documentation and processing as well as the value of Trace Evidence are some of the topics provided.

The Trace Evidence Unit, as part of the Cuyahoga County Regional Forensic Science Laboratory, has been accredited by ANSI-ASQ National Accreditation Board, (ANAB), formerly the American Society of Crime Lab Directors, Laboratory Accreditation Board, (ASCLD-LAB) since 2006.

2018 TRACE EVIDENCE UNIT REPORT

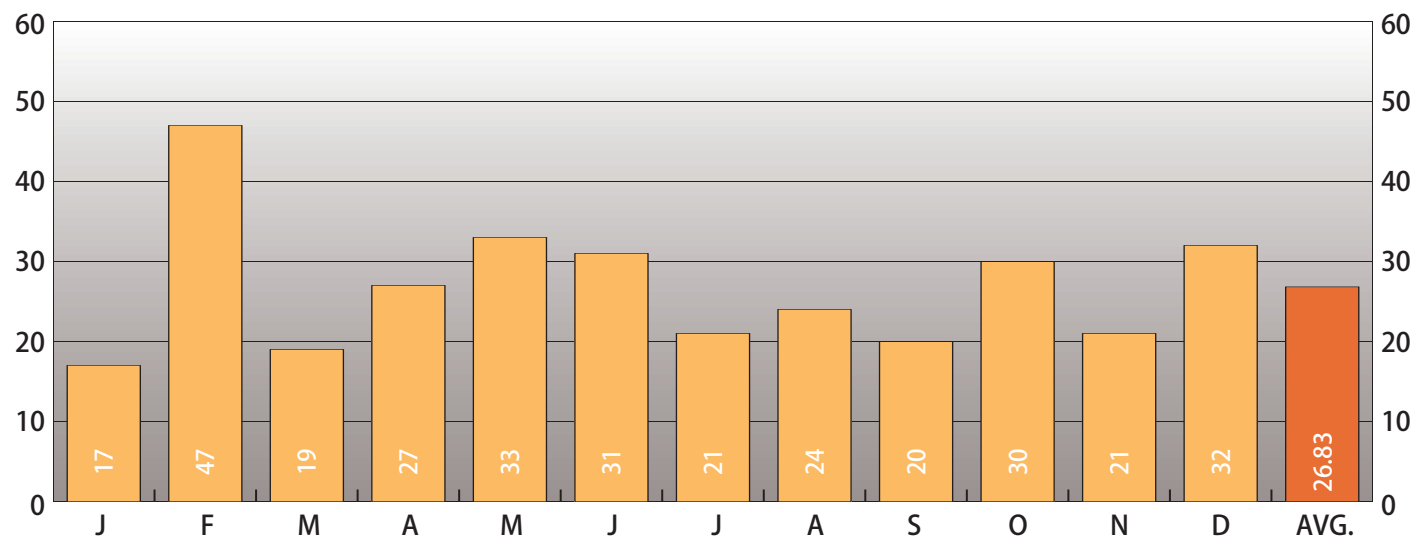
CASES SUBMITTED BY MONTH FOR THE YEAR 2018



2018
TOTAL CASES
488

2018 TRACE EVIDENCE UNIT REPORT

CASES COMPLETED BY MONTH FOR THE YEAR 2018



Lifebanc is the federally mandated Organ Procurement Organization (OPO) assigned to the 20 counties of Northeast Ohio including Cuyahoga County. The mission of Lifebanc is to save lives through organ and tissue donation and transplantation. Though an overall complex process with many different organizations involved, Lifebanc serves as the starting point of the process to identify donors, determine which organs or tissues may be suitable for donation, put together the recovery teams, and finally find the appropriate recipients for those organs. Since over 80% of suitable donors fall under the jurisdiction of a Medical Examiner or Coroner, it has been imperative that Lifebanc work diligently with their respective Medical Examiner/Coroner offices.

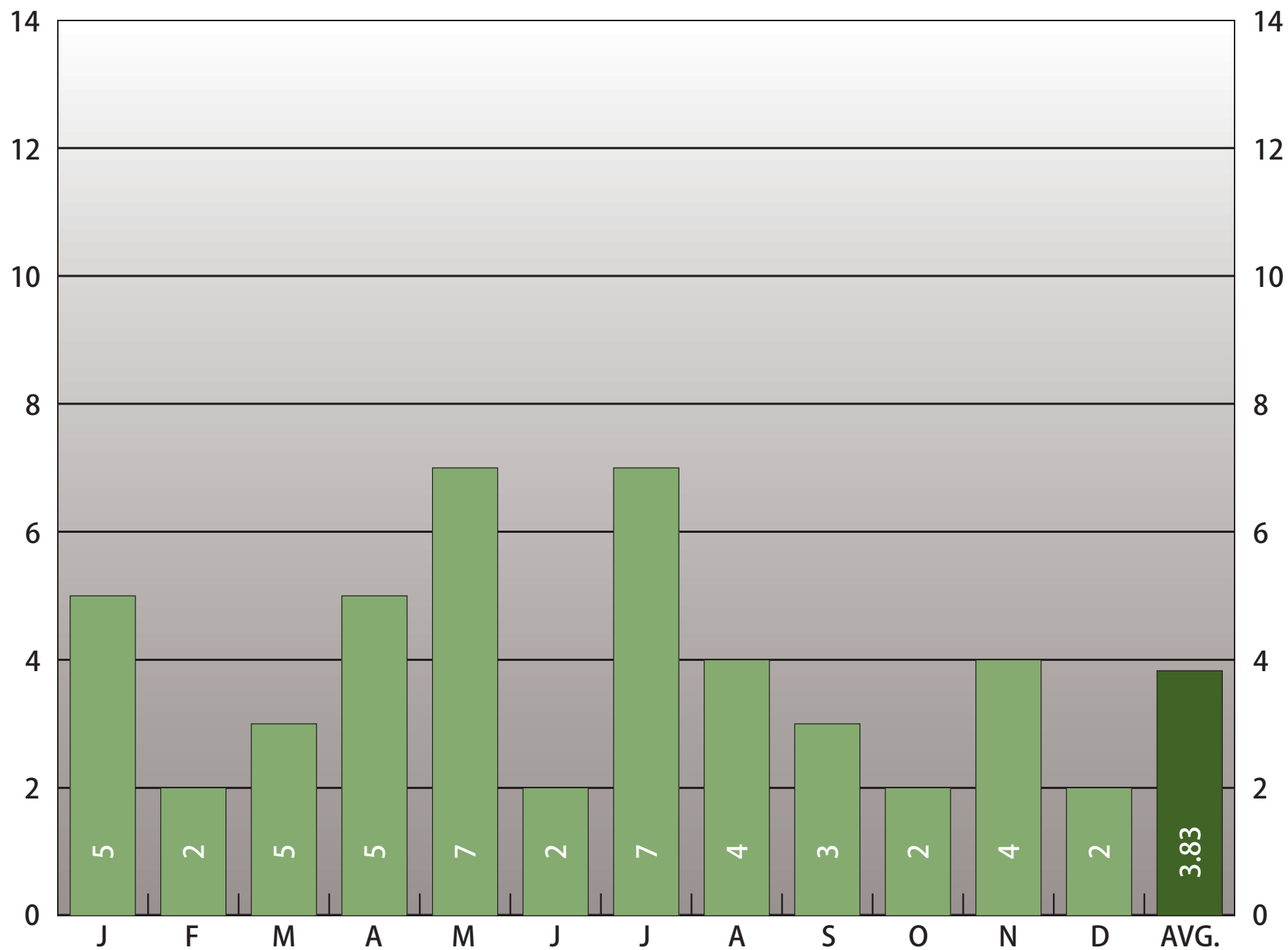
Lifebanc and the Cuyahoga County Medical Examiner's Office (CCMEO) have worked collaboratively for many years to create a "one of a kind" program not seen anywhere in the entire United States. Lifebanc has a full-time staff member housed at CCMEO to serve as a conduit of communication and information which helps to facilitate a seamless process from the time a death is declared through recovery of organs or tissues; all the while ensuring that the Medical Examiner has complete and thorough information so that they can, without compromise, release organs or tissues and still determine cause and manner of death. Lifebanc has a dedicated tissue recovery suite at CCMEO which is maintained at the same high level that a hospital operating room is. Lifebanc has contracted with CCMEO for other clinical areas and appreciates the cooperation and effort put forth by the Medical Examiner and the staff at CCMEO. Through another "first of its kind" referral program here in Cleveland, CCMEO is amongst the top 10 providers of tissue for transplantation, something that no other Coroner or Medical Examiner's office has ever accomplished.

With over 100,000 names on the national organ waiting list, Lifebanc is pleased to work hand in hand with the County Medical Examiner's Office to save many precious lives. For additional information on organ and tissue donation, log on to the Lifebanc website at www.Lifebanc.org.

Lifebanc



LIFEBOANC TISSUE DONORS BY MONTH FOR THE YEAR 2018





Photograph by J. Bielinski

MEDICAID FUNDING PRESS CONFERENCE



Photograph by Senator Brown Staff

2018 LECTURES GIVEN BY MEMBERS OF THE STAFF

Thomas P. Gilson, M.D., Medical Examiner

- February:** "The Medical Examiner's Role in Criminology". Cleveland State University, Cleveland, Ohio.
- March:** "Opioids: Facing the Crisis Together", Advent Lutheran Church in Association with Solon Police Department DARE Program, Solon, Ohio.
- "The Opioid Crisis: What Parents and the Community Need to Know, Social and Emotional Speaker Series". Cleveland Heights High School, Cleveland Heights, Ohio.
- "Cause and Manner of Death, Identification, Time of Death, Natural Deaths, Injuries by Firearms". Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.
- "Forensic Pathology and the Crime Laboratory". 16th Annual Forensic Science Symposium, Cedarcrest College, Allentown, Pennsylvania.
- April:** "Blunt Force Trauma". Pathology Residents Lecture Series, Case Western Reserve University, Cleveland, Ohio.
- "The Opioid Crisis". Northeast Ohio HEAL Kick-off, Beachwood, Ohio.
- May:** "Injuries by Firearms". Pathology Residents Lecture Series, MetroHealth Medical Center, Cleveland, Ohio.
- June:** "Public Health and Wellness - The Opioid Crisis and Gun Violence in the African-American Community". International Urban, Peace, Justice and Empowerment Summit, Cleveland State University, Cleveland, Ohio.
- "The Evolution of the Opioid Epidemic in Ohio". Buckeye State Funeral Directors and Embalmers Association, Cleveland, Ohio.
- July:** "Drowning and Swim Safety". Ideastream Television Show, Cleveland, Ohio.
- "Evolution of the Opioid Epidemic Nationally and Locally". Lake Health System Continuing Medical Education Series, Eastlake, Ohio.
- "Suicide: Review and Update; Opioids, Fentanyl Analogues and the Burrage Decision". 45th Annual New England Seminar in Forensic Sciences, Colby College, Waterville, Maine.
- August:** "Prescription Drug Monitoring Programs and the Medical Examiner". Institute for Intergovernmental Research - PDMP/TTAC Meeting, Washington D.C.
- September:** "Update on the Opioid Crisis". United States Attorney for the Northern District of Ohio Opioid Summit, Cleveland, Ohio.
- "Cause and Manner of Death, Identification, Time of Death, Natural Deaths, Injuries by Firearms". Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.
- "Interesting Cases". Euclid Medical Examiner's Series, Cleveland, Ohio.
- "The Opioid Crisis". START Providers Fair, Cleveland, Ohio.
- "Opioid Crisis Update". University Hospital Department of Psychiatry Grand Rounds, Cleveland, Ohio.
- "The Cuyahoga County Opioid Epidemic". Irish American Law Society Annual Meeting, Cleveland, Ohio.
- October:** "Opioid Crisis and the Medical Examiner". United States Attorney for Maine Annual Retreat, Northport, Maine.

2018 LECTURES GIVEN BY MEMBERS OF THE STAFF (continued)

Thomas P. Gilson, M.D., Medical Examiner (continued)

"Investigation of Deaths in the Workplace". Ohio State Coroners Association Northeast Regional Meeting, Cleveland, Ohio.

November: "Novel Psychoactive Substances in Cuyahoga County, 2016 - 2018". National Medical Services Symposium on New and Emerging Drugs, Philadelphia, Pennsylvania.

"Cause and Manner of Death, Identification, Time of Death, Natural Deaths, Injuries by Firearms". Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.

"Emerging Trends in Drug Overdose Mortality, Cuyahoga County". Heroin Response Symposium , High Intensity Drug Trafficking Areas Third Annual Meeting, Cleveland, Ohio.

December: "The Cuyahoga County Medical Examiner's Office". Meet the Leaders County Orientation Program, Cleveland, Ohio.

"The Cuyahoga County Opioid Epidemic". United States Federal Courthouse, Cleveland, Ohio.

Erica J. Armstrong, M.D., Deputy Medical Examiner

January: Demonstration Autopsy, Cuyahoga County Medical Examiner's Office.

February: Demonstration Autopsy, Cuyahoga County Medical Examiner's Office.

"Postmortem Forensic Toxicology". University Hospitals Case Medical Center, Cleveland, Ohio.

"Too Much, Too Little, Too Late: Postmortem Discovery of a Postpartum Endocrinomaly". American Academy of Forensic Sciences Annual Meeting, New Orleans, Louisiana.

Demonstration Autopsy, Cuyahoga County Medical Examiner's Office.

March: "Water-Related Deaths-Applications in Forensic Pathology". Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.

"Death Reporting and Death Certification-Applications for Medicolegal Death Investigation". Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.

"Cause of Death, Manner of Death, and Postmortem Toxicology". Pathology Resident Lecture Series, MetroHealth Medical Center Department of Pathology , Cleveland, Ohio.

April: "Water-Related Deaths-Applications in Forensic Pathology". Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.

"Death Reporting and Death Certification-Applications for Medicolegal Death Investigation". Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.

Demonstration Autopsy, Cuyahoga County Medical Examiner's Office.

May: "Forensic Toxicology". Pathology Resident Lecture Series, MetroHealth Medical Center Department of Pathology , Cleveland, Ohio.

Demonstration Autopsy, Cuyahoga County Medical Examiner's Office.

2018 LECTURES GIVEN BY MEMBERS OF THE STAFF (continued)

Erica J. Armstrong, M.D., Deputy Medical Examiner (continued)

- June:** Demonstration Autopsy, Cuyahoga County Medical Examiner's Office.
- July:** Demonstration Autopsy, Cuyahoga County Medical Examiner's Office.
- September:** "Water-Related Deaths-Applications in Forensic Pathology". Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.
"Death Reporting and Death Certification-Applications for Medicolegal Death Investigation". Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.
Demonstration Autopsy, Cuyahoga County Medical Examiner's Office.
- October:** Demonstration Autopsy, Cuyahoga County Medical Examiner's Office.
- November:** "Water-Related Deaths-Applications in Forensic Pathology". Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.
"Death Reporting and Death Certification-Applications for Medicolegal Death Investigation". Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.

Joseph A. Felo, D.O., Deputy Medical Examiner

- January:** "Male Genitourinary Disease". Ohio College of Podiatric Medicine, Independence, Ohio.
"Gastrointestinal Disease, Part I". Ohio College of Podiatric Medicine, Independence, Ohio.
"Gastrointestinal Disease, Part II". Ohio College of Podiatric Medicine, Independence, Ohio.
- February:** "Introduction to Forensic Pathology". Case Western Reserve Law School, Cleveland, Ohio.
Demonstration Autopsy, Cuyahoga County Medical Examiner's Office.
- March:** "Forensic Pathology as a Career". Strongsville Middle School Medical Detectives Class, Strongsville, Ohio.
Demonstration Autopsy, Cuyahoga County Medical Examiner's Office.
- April:** "Forensic Case Studies". Euclid Hospital Medical Examiner's Lecture Series, Cleveland, Ohio.
Demonstration Autopsy, Cuyahoga County Medical Examiner's Office. (2)
- May:** Demonstration Autopsy, Cuyahoga County Medical Examiner's Office. (2)
- June:** "Time of Death & Postmortem Changes". Cleveland Emergency Medical Service, Cleveland, Ohio.
"Forensic Pathology & Death Investigation". Cleveland Emergency Medical Service, Cleveland, Ohio.

2018 LECTURES GIVEN BY MEMBERS OF THE STAFF (continued)

Joseph A. Felo, D.O., Deputy Medical Examiner (continued)

- September:** Demonstration Autopsy, Cuyahoga County Medical Examiner's Office.
- October:** Demonstration Autopsy, Cuyahoga County Medical Examiner's Office.
"Forensic Pathology as a Career". Mayfield High School, Mayfield, Ohio.
- November:** "Application of Cytopathology Principles and Techniques in Forensic Medicine". American Society of Cytopathology, Washington D.C.
- December:** Demonstration Autopsy, Cuyahoga County Medical Examiner's Office.

Elizabeth Mooney, D.O., Deputy Medical Examiner

- March:** "Blunt and Sharp Force Injuries and Asphyxia and Environmental Deaths". Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.
- April:** "Electrical and Thermal injuries". University Hospitals and Case Western Reserve University Pathology Resident Lecture , Cleveland, Ohio.
"Electrocution". Euclid Hospital Medical Examiner's Lecture Series, Cleveland, Ohio.
"Back to the Basics: Forensics 101". Cleveland Clinic Health System Education Conference, Cleveland, Ohio.
- September:** "Loperamide Abuse". Euclid Hospital Medical Examiner's Lecture Series, Cleveland, Ohio.
"Blunt and Sharp Force Injuries and Asphyxia and Environmental Deaths". Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.
- October:** "Fatal Dog Attacks and Seizure Disorders: A Case Series". National Association of Medical Examiners Annual Conference, West Palm Beach, Florida.
- November:** "Blunt and Sharp Force Injuries and Asphyxia and Environmental Deaths". Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.

Luigino Apollonio PhD, Chief Toxicologist

- June:** "Forensic Toxicology". Medicolegal Death Investigation Course (Advanced 5-day), Cleveland, Ohio.

Cassandra Clyde, Forensic Scientist II, Toxicology

- April:** "Fentanyl Epidemic in Northeast Ohio; LC-MS/MS Method Development and 2016-2017 Statistics from Postmortem and Impaired Driving Cases". 2018 Midwest Association for Toxicology & Therapeutic Drug Monitoring Meeting, Indianapolis, Indiana.

2018 LECTURES GIVEN BY MEMBERS OF THE STAFF (continued)

Mallory Foran, Forensic Scientist I, Firearms and Tool Marks

October: "Understanding the Black Oxide Chemical Conversion Process as it is Applied to Bullets, and How it Translates to Microscopic Comparisons". Midwest Firearms Training Seminar, Indianapolis, Indiana.

Szabolcs Sofalvi, Toxicology Quality Assurance Officer

October: "Unique Structural/Stereo-Isomer and Similar-Mass Interference Analysis of Novel Fentanyl Analogues in Postmortem and DUID Whole Blood by LC—MS-MS". 2018 Society of Forensic Toxicologists Annual Meeting, Minneapolis, Minnesota.

Joseph Stopak, Manager of Investigation and Morgue Operations

March: Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.

April: Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.

June: Medicolegal Death Investigation Course (Advanced 5-day), Cleveland, Ohio.

September: Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.

October: "Imperial Avenue, Recovery of Human Remains". Lifebanc, Cleveland, Ohio.

November: Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.

Anjanette Fischer-Alexander, Parentage and Identification Technician

June: Medicolegal Death Investigation Course (Advanced 5-day), Cleveland, Ohio.

Jeffrey Oblock, Forensic Scientist II - DNA

September: "Application of TrueAllele® Technology's Databasing Feature in DNA Casework". 29th International Symposium on Human Identification, Phoenix, Arizona.

Dawn Schilens, Fingerprints Lab Supervisor

March: Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.

April: Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.

2018 LECTURES GIVEN BY MEMBERS OF THE STAFF (continued)

Dawn Schilens, Fingerprints Lab Supervisor (continued)

September: Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.

November: Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.

Felicia Ruffin, Forensic Scientist II, Fingerprints

March: Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.

April: Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.

September: Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.

November: Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.

Scott Flynn, Forensic Scientist II, Fingerprints

March: Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.

April: Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.

September: Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.

November: Medicolegal Death Investigation Course (Basic 3-day), Cleveland, Ohio.

2018 PUBLICATIONS BY MEMBERS AND ASSOCIATES OF THE STAFF

Armstrong, EJ¹, Erskine, KL². (2018): "Investigation of Drowning Deaths: A Practical Review." Academic Forensic Pathology. 8(1); 8-43. doi: 10.23907/2018.002.

Morrow JB, Roper-Miller JD, Catlin ML, Winokur AD, Cadwallader AB, Staymates JL, Williams SR, McGrath JG, Logan BK, McCormick MM, Nolte KB, **Gilson TP**, Menendez MJ, Goldberger BA, (2018): "The Opioid Epidemic: Moving Toward an Integrated, Holistic Analytical Response." Journal of Analytical Toxicology. 43(1); 1-9. doi:10.1093/jat/bky049.

Regoez WC, **Gilson T**. (2018): "Homicide-Suicide in Cuyahoga County, Ohio, 1991-2016." Journal of Forensic Sciences. 63(5); 1539-1544.

Gilson T. (2018): "The Medical Examiner's Role in Addressing the Opioid Crisis." United States Attorneys' Bulletin. 66(4);47-54.

Gilson T. (2018): "Notes from the Field: Opioid Crisis- Medical Examiner's Office as a Focal Point." National Institute of Justice Notes from the Field Series. 14, Jun.

ABOUT THE 2018 MEDICAL EXAMINER'S STATISTICAL REPORT

- Unless otherwise noted, all data is tabulated based on initial injury location. If the injury location is unknown, then the place of death is utilized. For this reason, tables may have numbers that do not exactly match.
- Numbers, as reported in previous editions of the Coroner's Statistical Report, may not exactly match the same data in this publication given the numerous revisions to tables over the years.
- All tables that summarize autopsied cases also include hospital autopsy data.
- Per the Medical Examiner's protocol, no partial autopsies are performed.

The 2018 Medical Examiner's Statistical Report has been prepared, collectively by:

William Alexy	Database Administration
Jason Bielinski	Photographs
Christopher Harris	Graphic Design, Photographs, Project Coordination, and Cover
Amy Koons	Photographs
Eric Lavins	Toxicology Data
Jan Mannion	Project Coordination and Proofreading
Bhavna Patel	Database Administration
Rindi Rico	Toxicology Data
Jodie Schneider	Database Administration
Kate Snyder	Photographs
Paula Wallace	Data Coding, Data Entry, Database Maintenance, Statistical Data, and Statistical Table Development
Greg Wilson	Photographs



Medical Examiner's Office Vehicle

The cover image is one of the vehicles used by our Medicolegal Death Investigators to respond to scenes. In 2018, our 13 investigators responded to a total of 1,268 scenes. Investigators serve as the first pair of eyes and ears for our forensic pathologists.

Medicolegal Death Investigators are responsible for answering incoming phone calls, photographing and documenting scenes, identifying and notifying next-of-kin, and training first responders.