



2018

**Annual Report
Office of the
Chief Medical Examiner**

State of Maryland

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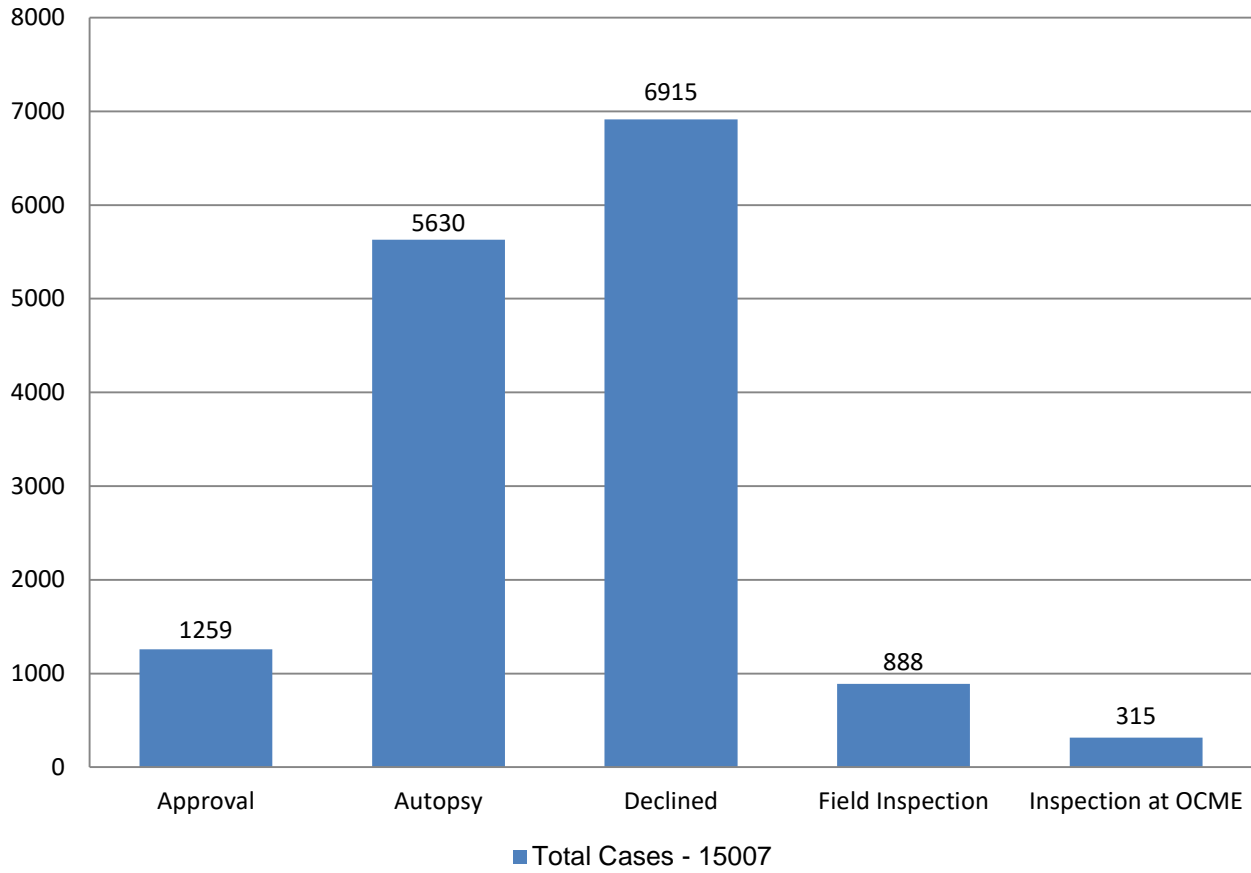
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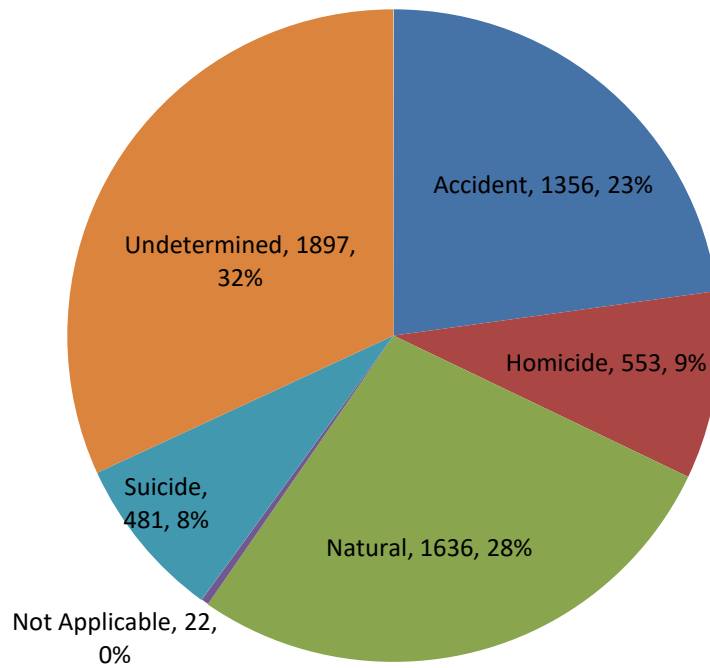
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2018 Cases Reported to OCME - Action Taken



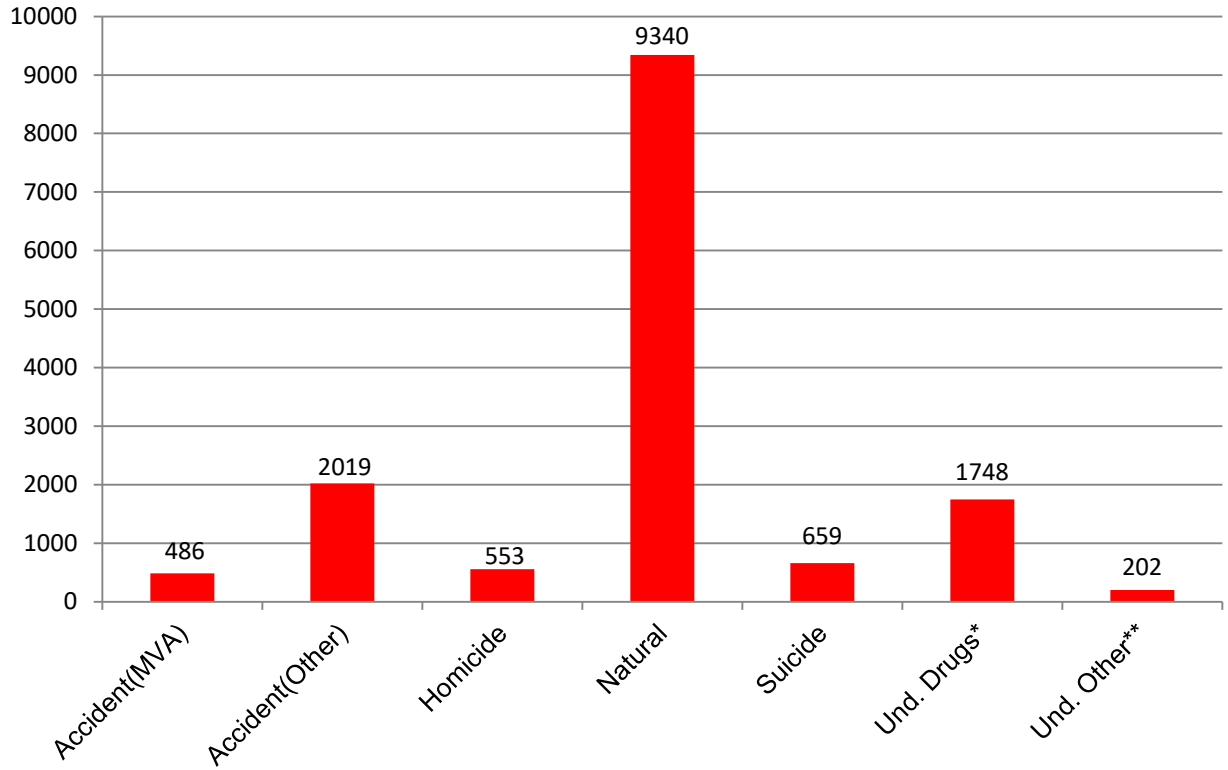
2018 Medical Examiner Cases Autopsied*



Total Cases Autopsied - 5945

*22 cases were classified as "not applicable" (e.g. stillborn & non-human remains).

2018 Cases Reported to OCME Manner of Death



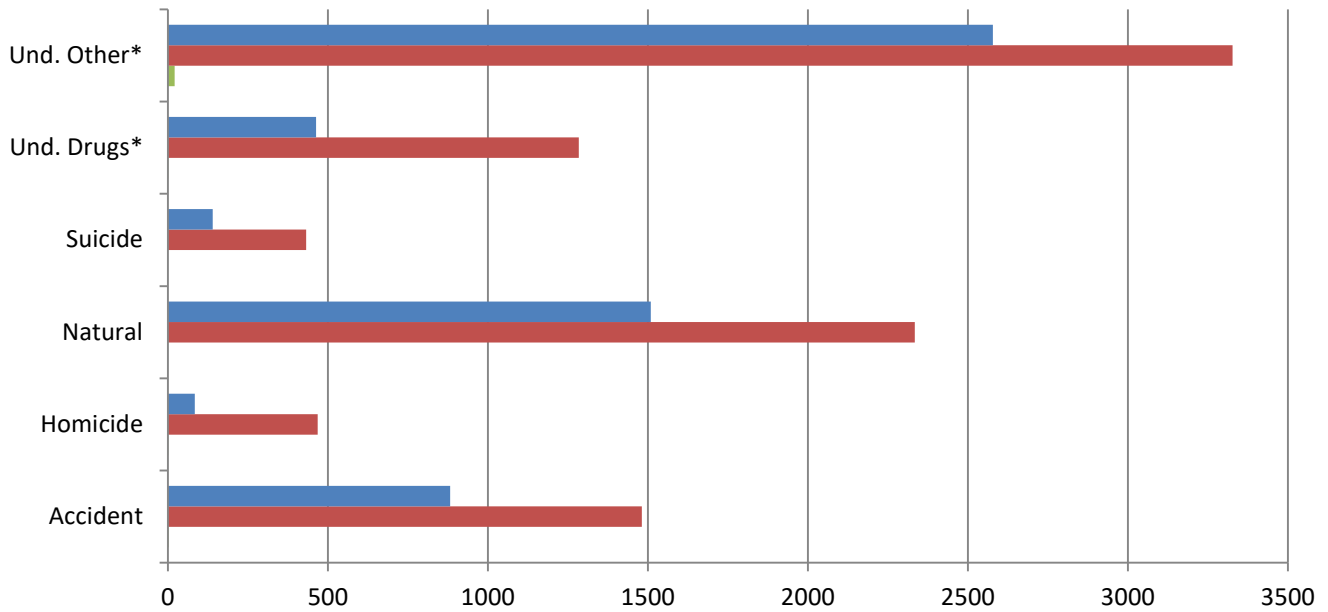
Total Cases – 15007

*Undetermined Manner: Drugs/Narcotics

** Undetermined Manner: Other

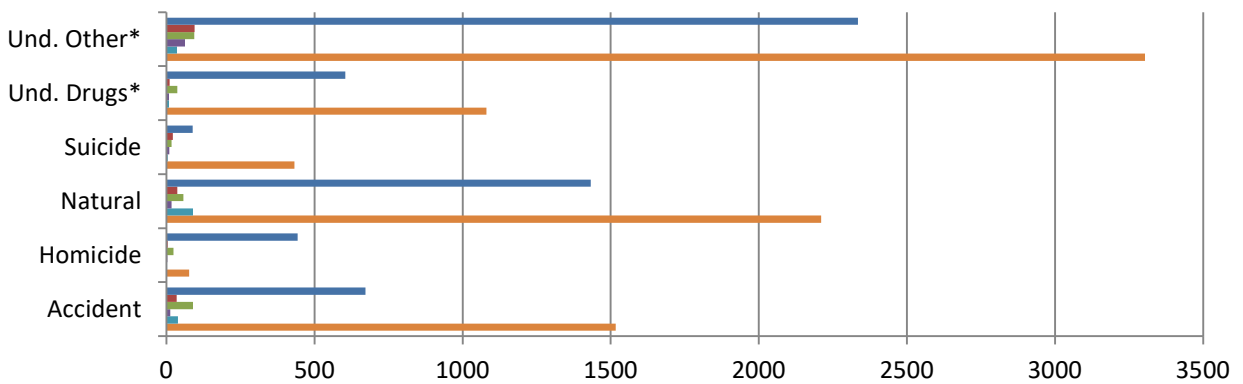
2018 Manner of Death

Classified by Sex



	Accident	Homicide	Natural	Suicide	Und. Drugs*	Und. Other*
Female	882	84	1509	140	463	2578
Male	1481	468	2334	432	1284	3327
Unknown	2	1			1	21

Classified by Race



	Accident	Homicide	Natural	Suicide	Und. Drugs*	Und. Other*
African American	672	443	1432	88	604	2335
Asian	34	4	37	21	11	95
Hispanic	90	24	57	17	37	94
Other	13	3	17	10	8	62
Unknown	39	2	90	4	8	36
White	1517	77	2210	432	1080	3304

*Undetermined Manner: Drugs/Narcotics

** Undetermined Manner: Other

Manner of Death

Cause of Death	Accident	Homicide	Natural	Not Applicable	Suicide	Undetermined	Total
Asphyxiation	114	2	1		139	18	274
Airway obstruction/Aspirated stomach content	4		1				5
Drowning	77				16	15	108
Hanging					102	1	103
Smoke inhalation	14				1	1	16
Strangulation/Asphyxiation	19	2			19	1	41
Suffocation					1		1
Chemical/Drug/Alcohol Intoxication/Abuse/Use	584	7	103		88	1746	2528
Alcohol abuse/use	5		80			1	86
Alcohol and drug intoxication/use	4		3		7	6	20
Alcohol intoxication/use	17					7	24
Carbon monoxide	6				10	2	18
Cocaine and alcohol intoxication/use	13				1	2	16
Cocaine intoxication/use	47	1	5			31	84
Drug intoxication/abuse/use	34		10		43	65	152
Narcotic abuse/use			1				1
Narcotic and alcohol intoxication/use	89		1		5	288	383
Narcotic intoxication/use	369	6	3		22	1344	1744
Circulatory system	36	1	1253			6	1296
Aneurysm			4				4
Cardiac arrhythmia	3		55			1	59
Cardiomyopathy	1		21				22
Cardiovascular disease	11		935			2	948
Cerebrovascular disease	7		41			2	50
Hemorrhage	3		8				11
Other cardiac	4		143			1	148
Pulmonary embolism	7	1	46				54
Congenital / Perinatal			3	5		55	63
Congenital/Perinatal			3	5			8
Sudden Unexplained Death in Infancy (SUDI)						55	55
Digestive system disease	1		45				46
Cirrhosis			8				8
Gastrointestinal hemorrhage			21				21
Liver Disease	1		5				6
Other digestive			11				11
Electrocution	2						2
Endocrine and metabolic disease	2		48			1	51
Diabetes	2		41				43
Other Endocrine and metabolic			7			1	8
Hyperthermia	24						24
Hypothermia	47						47
Infectious disease			8				8
Other infectious disease			7				7
AIDS/HIV			1				1

Manner of Death

Cause of Death	Accident	Homicide	Natural	Not Applicable	Suicide	Undetermined	Total
Malignant neoplasms (Cancer)			22			1	23
Malignant neoplasms (Cancer)			22			1	23
Nervous system disease	4		20			4	28
Meningitis			4			1	5
Other CNS	1		2				3
Seizure disorder	3		14			3	20
Non-human remains				5			5
Non-human remains				5			5
Other natural cause			76				76
Other natural cause			76				76
Other non-natural cause	6	3		12	9		30
Other non-natural cause	6	3		12	9		30
Respiratory system	1		57			2	60
Asthma			6				6
Chronic obstructive pulmonary disease			4				4
Other respiratory	1		12			1	14
Pneumonia			35			1	36
Thermal Injuries (Burns)	30				2	4	36
Thermal Injuries (Burns)	30				2	4	36
Traumatic injury	505	540			243	27	1315
Blunt force	38	12			1	2	53
Fracture	8						8
Gunshot wound	5	437			212	1	655
Head/Chest injuries	70	11			2	11	94
Multiple injuries	371	29			22	12	434
Other trauma	13	1				1	15
Sharp force/cutting		50			6		56
Unknown cause						33	33
Unknown cause						33	33
Grand Total	1356	553	1636	22	481	1897	5945

Manner of Death - 3 Year Comparison

Medical Examiner Cases: Manner of Death, Maryland 2018

Manner of Death	Number	%
Accident	2505	16.7%
Homicide	553	3.7%
Natural	9340	62.2%
Suicide	659	4.4%
Undetermined	1950	13.0%
Total	15007	100%

Medical Examiner Cases: Manner of Death, Maryland 2017

Manner of Death	Number	%
Accident	2469	16.5%
Homicide	620	4.1%
Natural	9356	62.6%
Suicide	642	4.3%
Undetermined	1859	12.4%
Total	14946	100%

Medical Examiner Cases: Manner of Death, Maryland 2016

Manner of Death	Number	%
Accident	2382	16.7%
Homicide	599	4.2%
Natural	9048	63.3%
Suicide	586	4.1%
Undetermined	1686	11.8%
Total	14301	100%

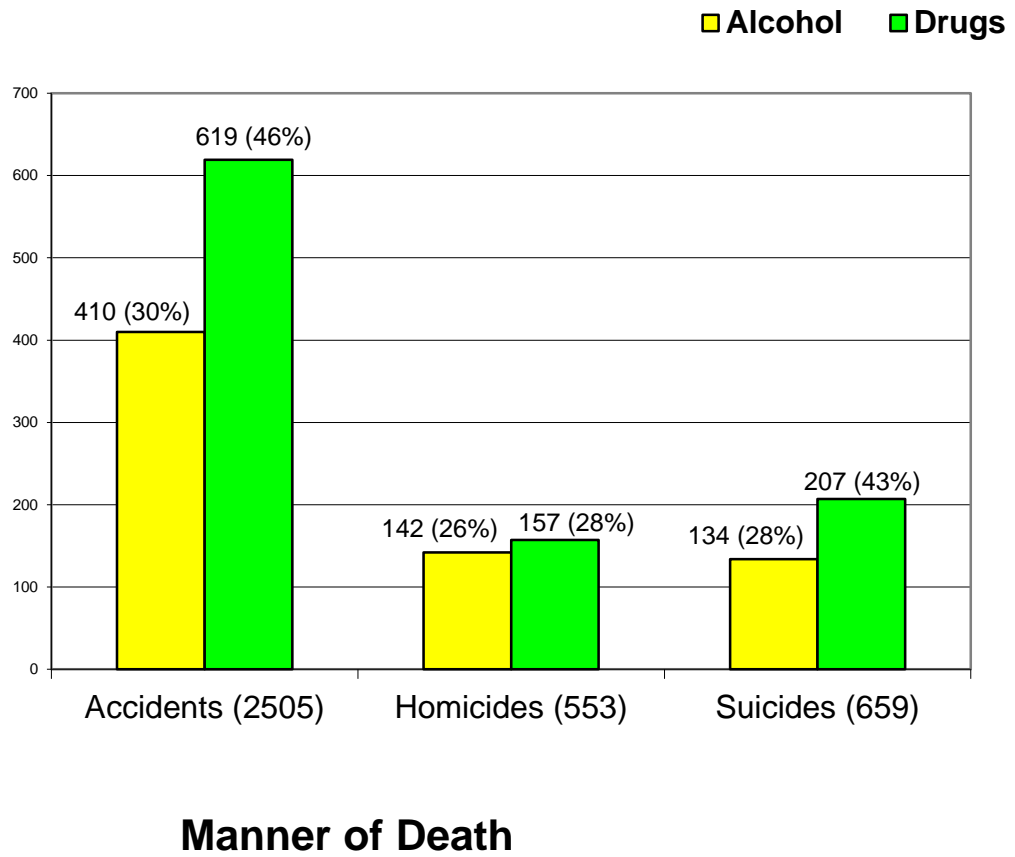
2018 Manner of Death by County

2018 - Manner	Accident	Homicide	Natural	Suicide	Undetermined	Total
Allegany	18	5	47	18	30	118
Anne Arundel	129	22	145	61	176	533
Baltimore City	399	334	397	71	719	1920
Baltimore County	174	20	220	46	273	733
Calvert	16		19	6	22	63
Caroline	8	2	12	2	3	27
Carroll	32	1	28	16	58	135
Cecil	36	4	26	7	49	122
Charles	32	12	35	17	25	121
Dorchester	7	1	14	5	7	34
Frederick	39	4	35	22	61	161
Garrett	7		8	5	2	22
Harford	43	6	65	29	79	222
Howard	35	1	34	18	29	117
Kent	5		11	2	2	20
Montgomery	99	25	140	64	79	407
Prince George's	149	99	213	41	128	630
Queen Anne's	7	1	11	7	14	40
Saint Mary's	25	1	35	9	21	91
Somerset	4	1	4	2	8	19
Talbot	9	2	12	2	14	39
Washington	38	8	65	12	77	200
Wicomico	22	4	36	12	28	102
Worcester	23		24	7	15	69
Grand Total	1356	553	1636	481	1919	5945

2018 - Case Type	Autopsy	OCME Insp.	Total	County	Autopsy	OCME Insp.	Total
Allegany	113	5	118	Washington	191	9	200
Anne Arundel	504	29	533	Wicomico	96	6	102
Baltimore City	1828	92	1920	Worcester	66	3	69
Baltimore County	695	38	733	Grand Total	5630	315	5945
Calvert	58	5	63				
Caroline	27	0	27				
Carroll	126	9	135				
Cecil	119	3	122				
Charles	111	10	121				
Dorchester	32	2	34				
Frederick	147	14	161				
Garrett	18	4	22				
Harford	209	13	222				
Howard	109	8	117				
Kent	19	1	20				
Montgomery	369	38	407				
Prince George's	607	23	630				
Queen Anne's	38	2	40				
Saint Mary's	90	1	91				
Somerset	19	0	19				
Talbot	39	0	39				

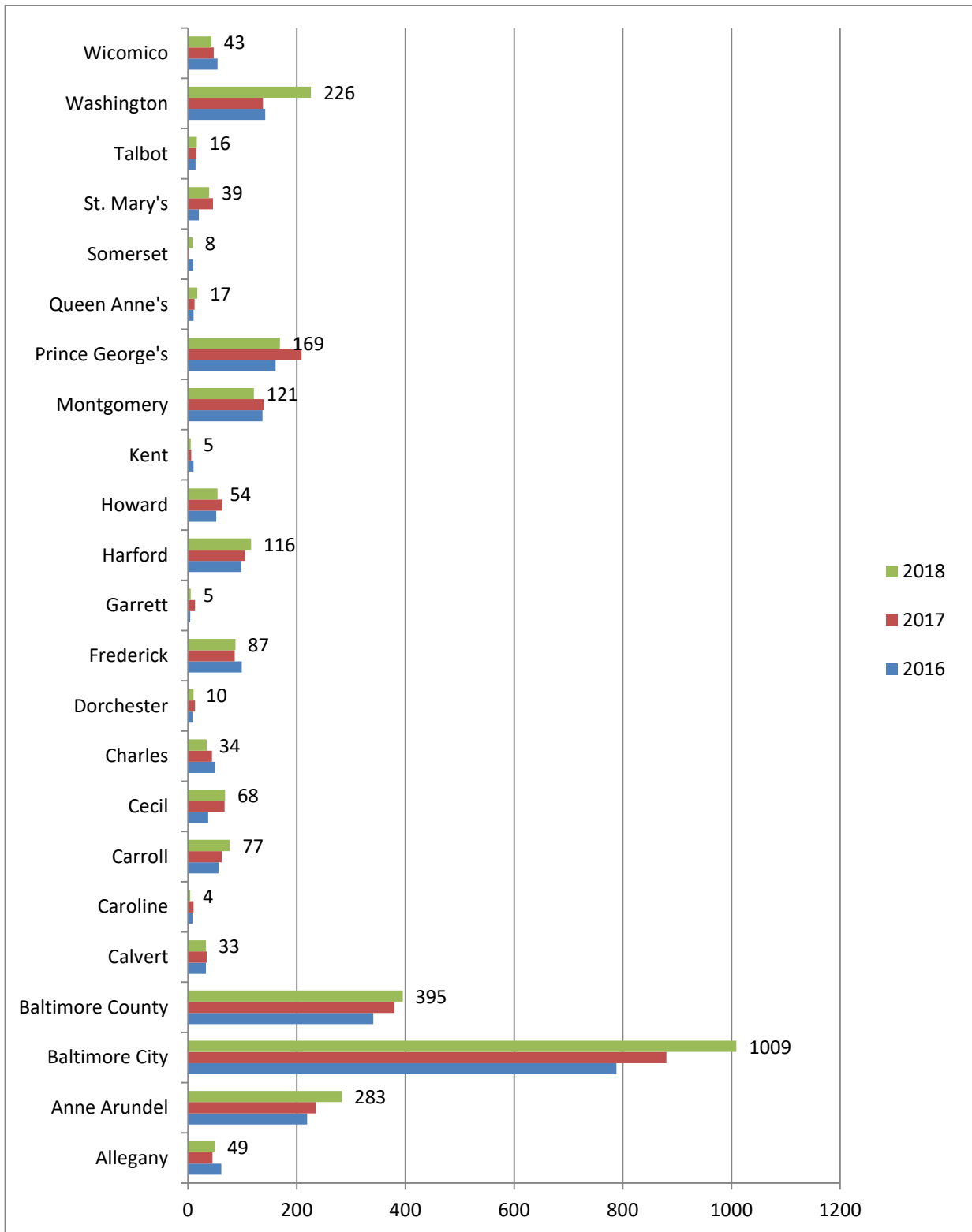
2018 Toxicology Testing

of Cases Positive for Alcohol and/or Drugs (Percentage of the Manner of Death)

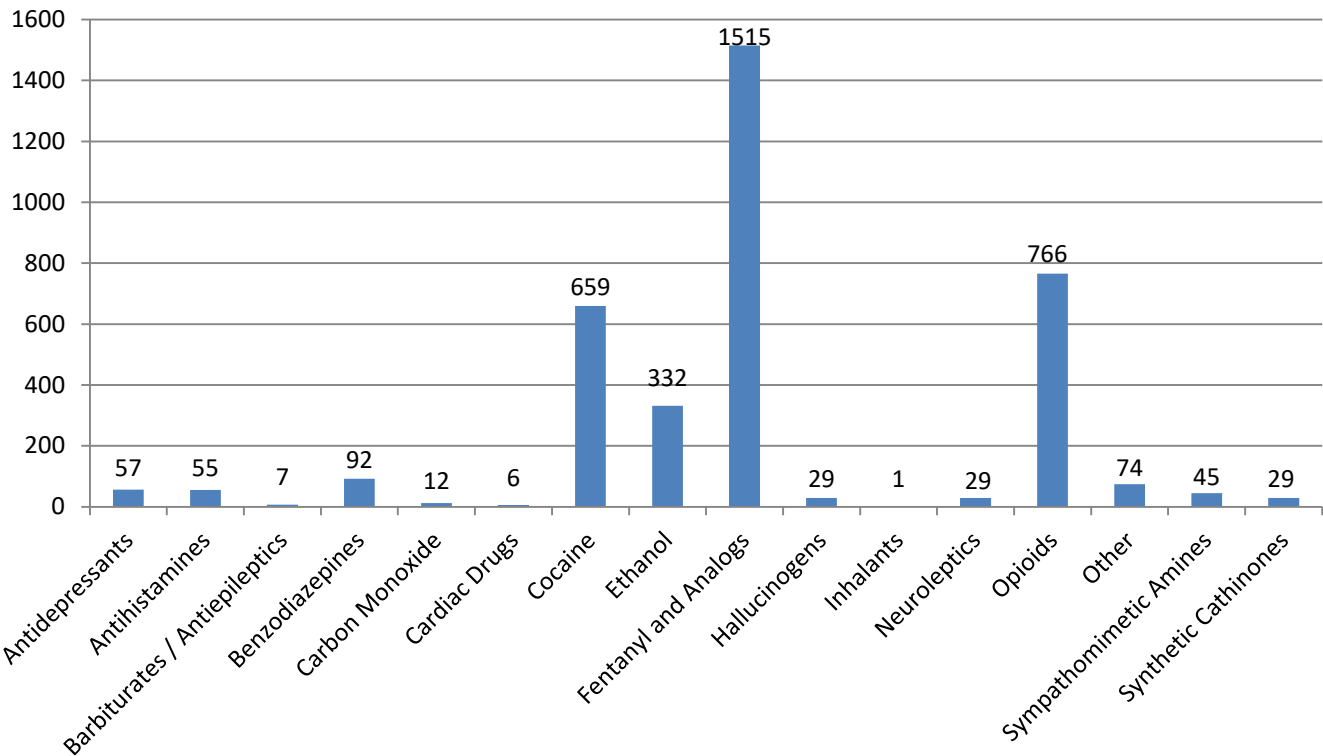


Drug Deaths

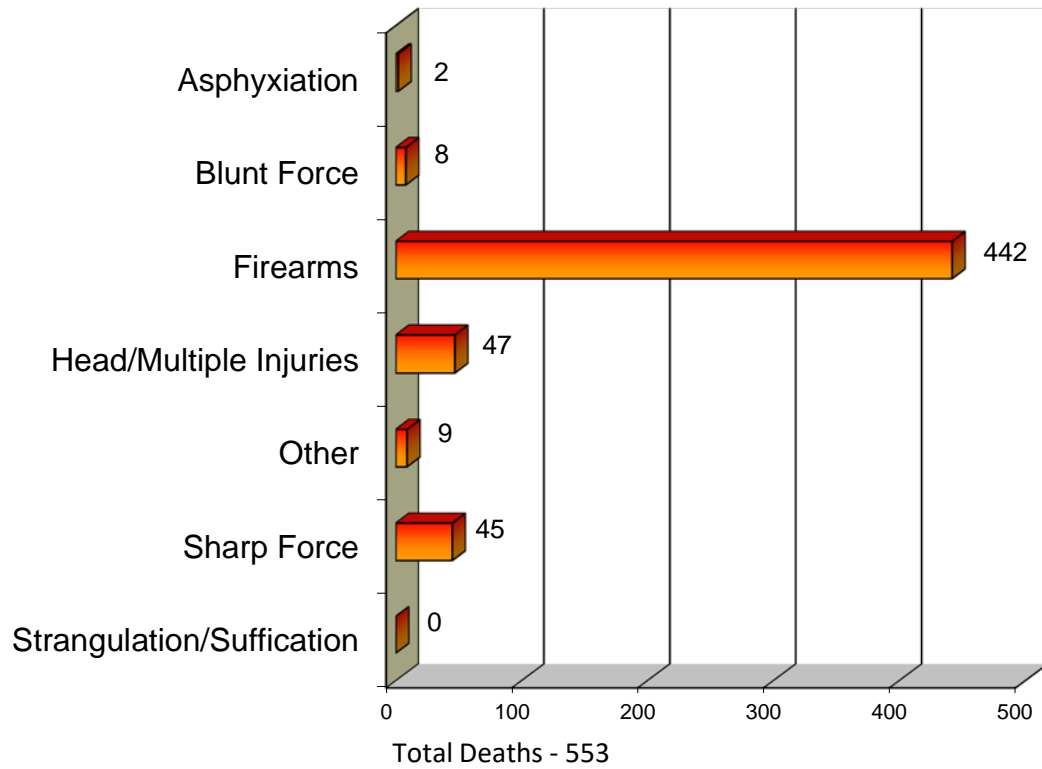
3 Year Comparison by Jurisdiction 2016-2018



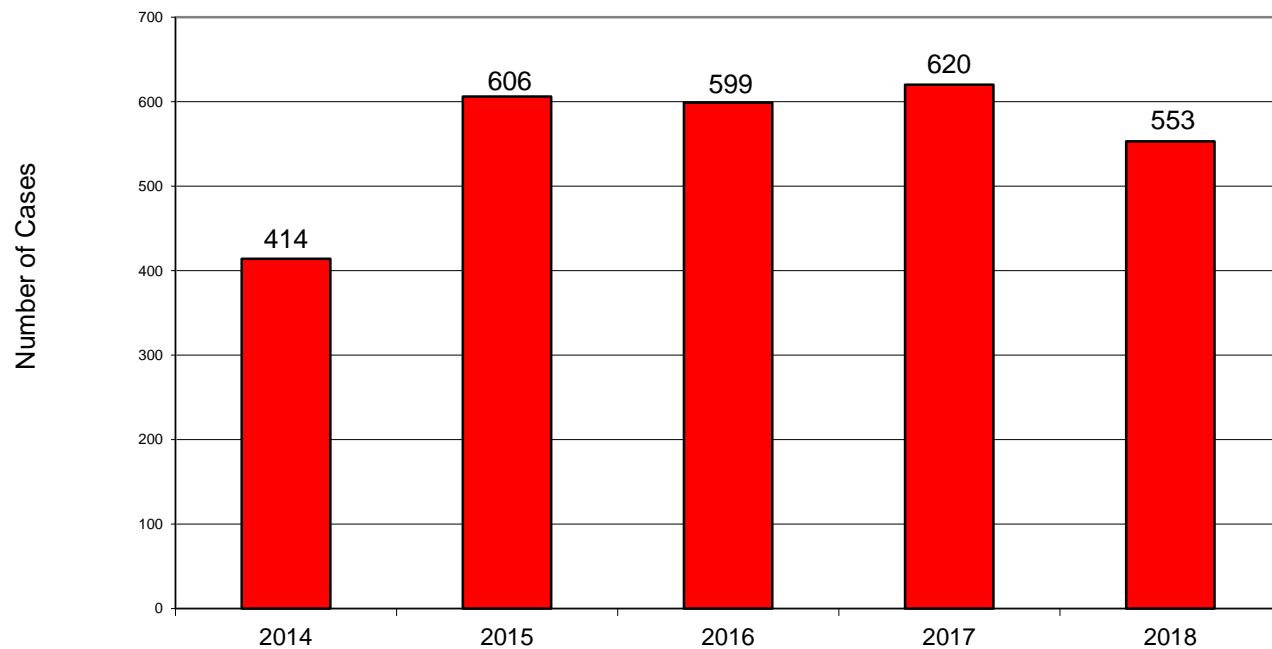
2018 Drug Deaths Undetermined Manner



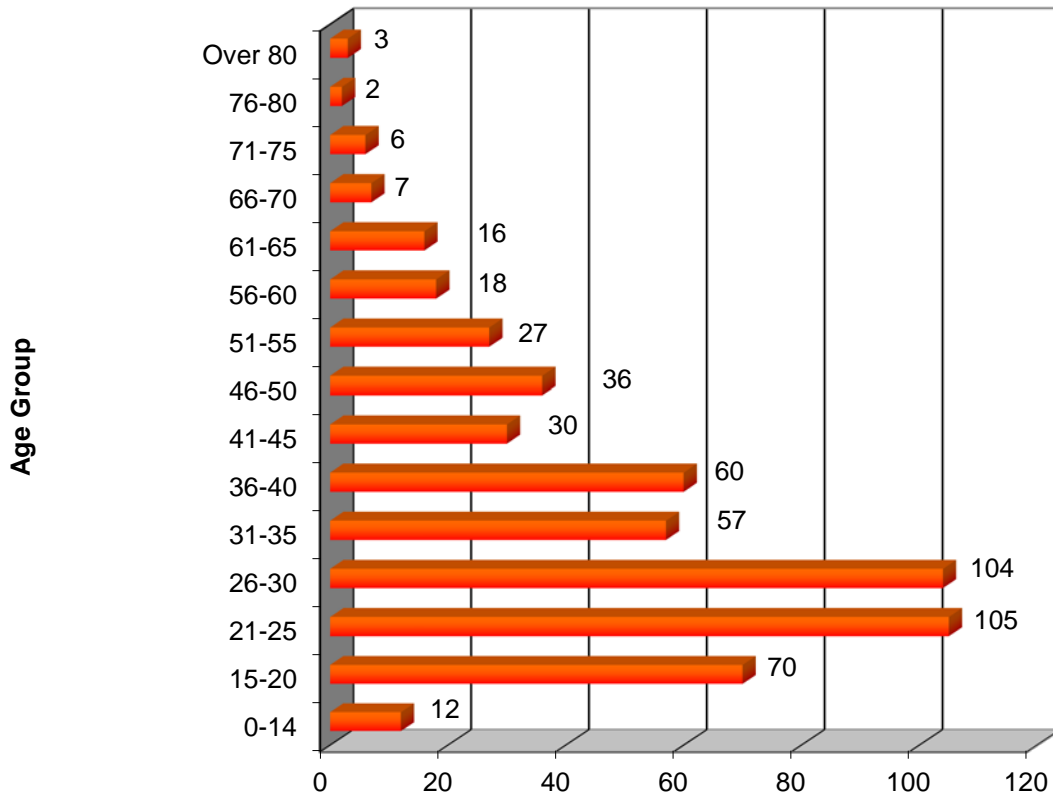
2018 Homicide Deaths Cause of Death



Homicides 5 Year Comparison 2014 - 2018

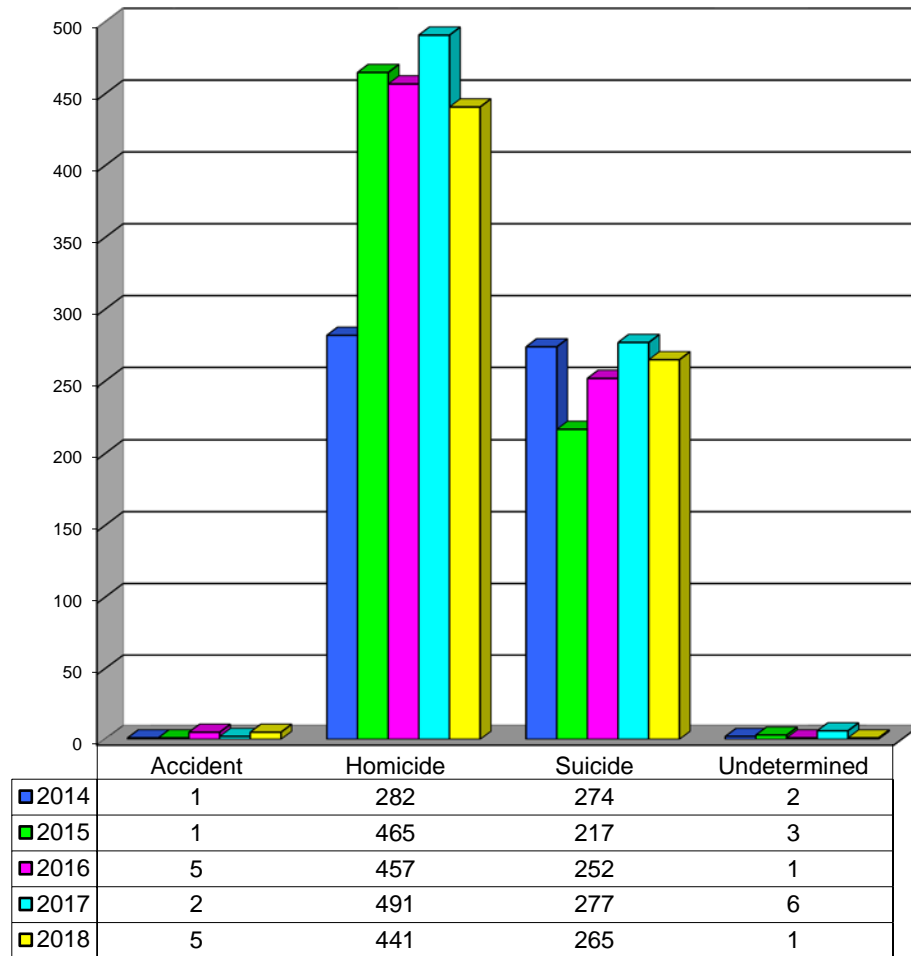


2018 Homicide Deaths by Age

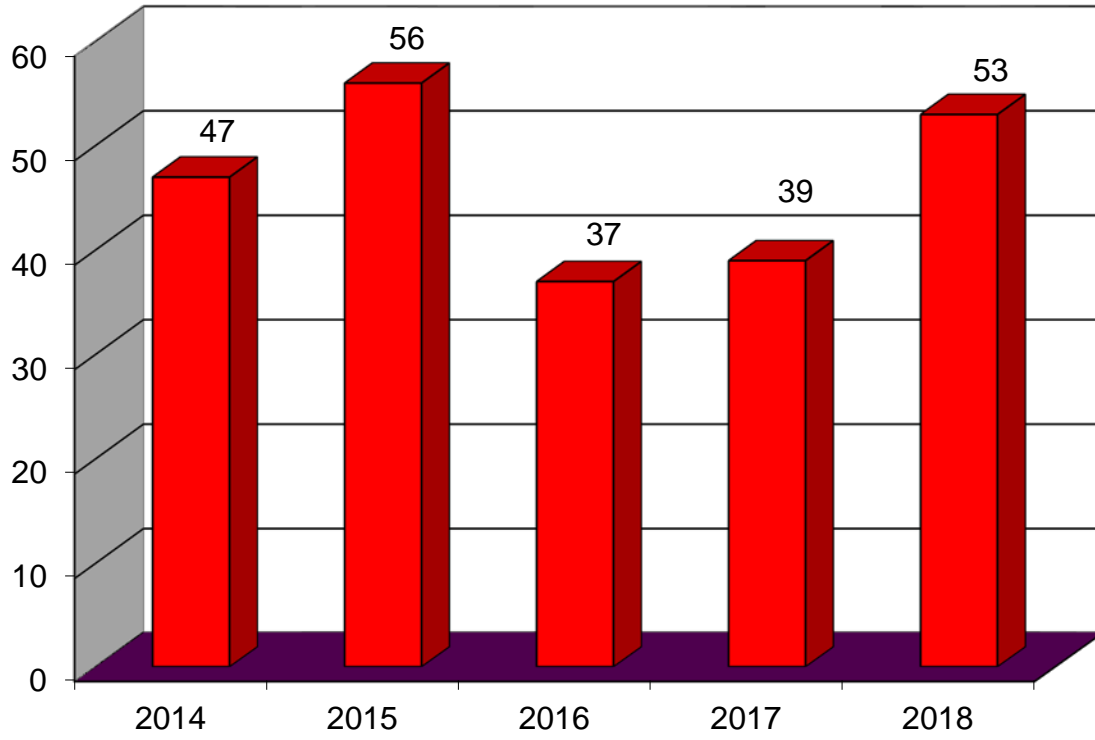


Total Deaths - 553

Firearm Deaths 2014 - 2018

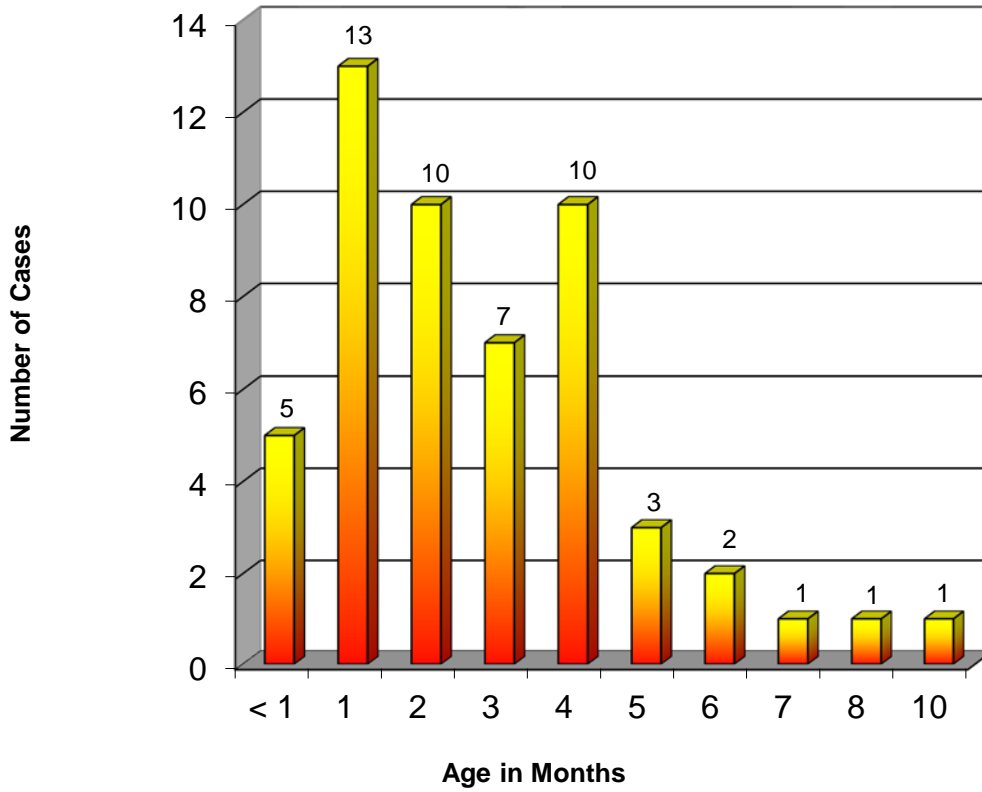


SUDI Deaths 2014 - 2018 Comparison

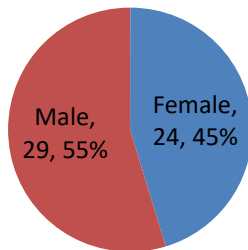


Sudden Unexplained Death in Infancy – 2018

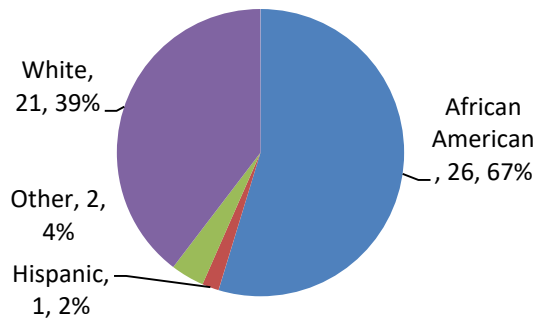
Classified by Age



Classified by Sex

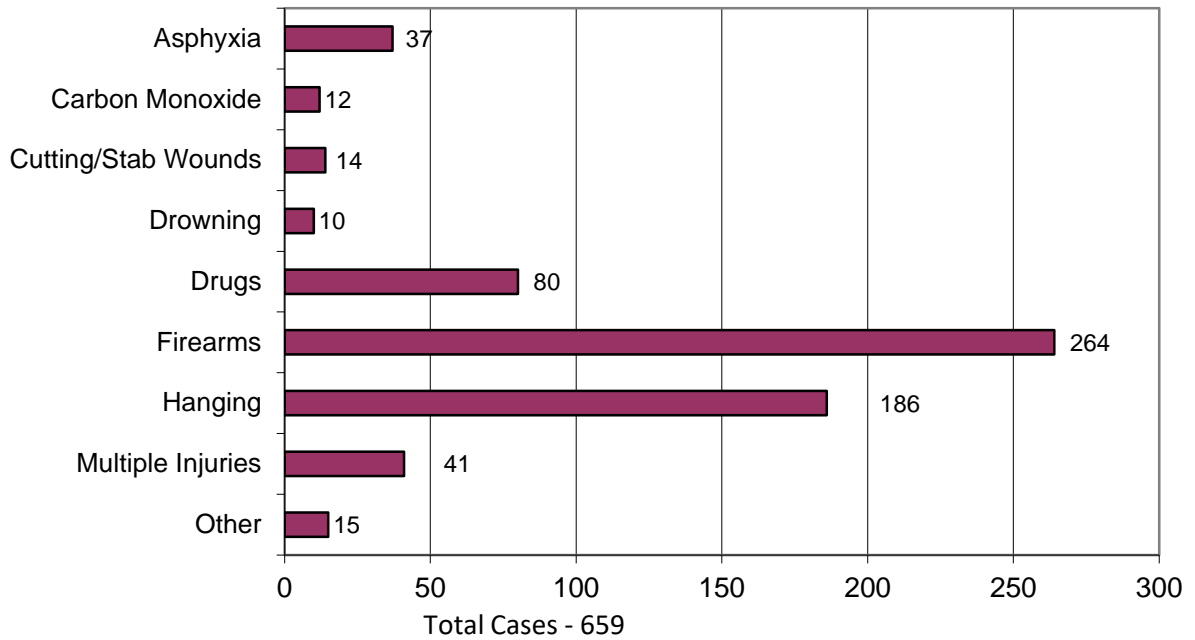


Classified by Race

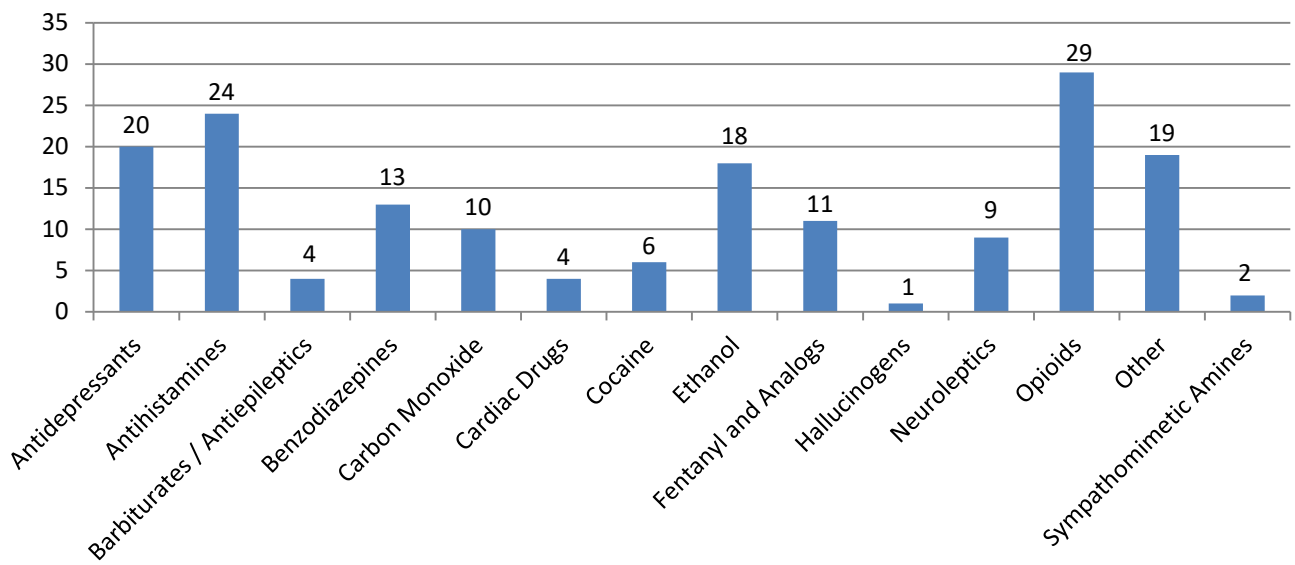


Total of 53 Deaths

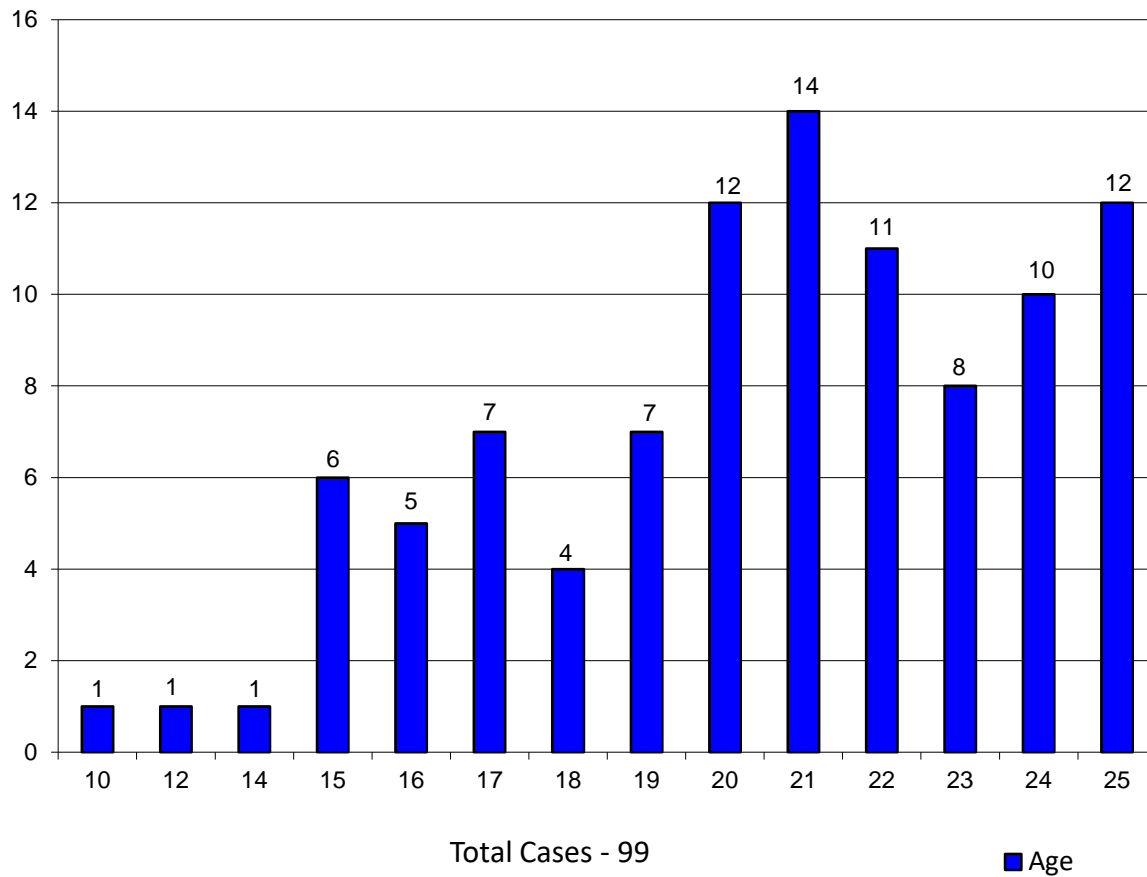
2018 Suicide Deaths Classified by Cause of Death



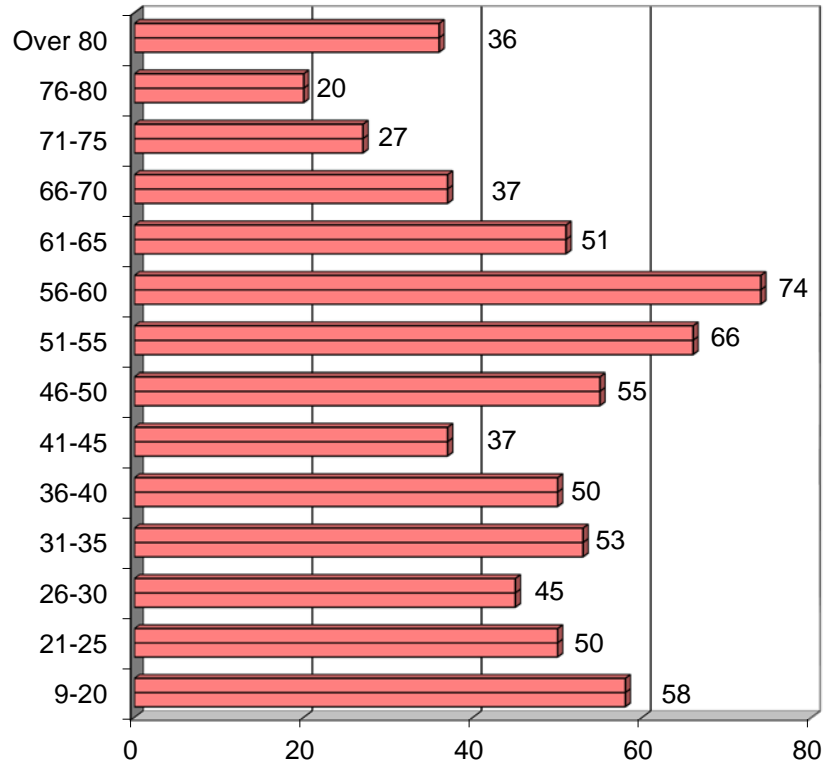
Classified by Drug Category



2018 Youth Suicides 25 Years of Age and Under

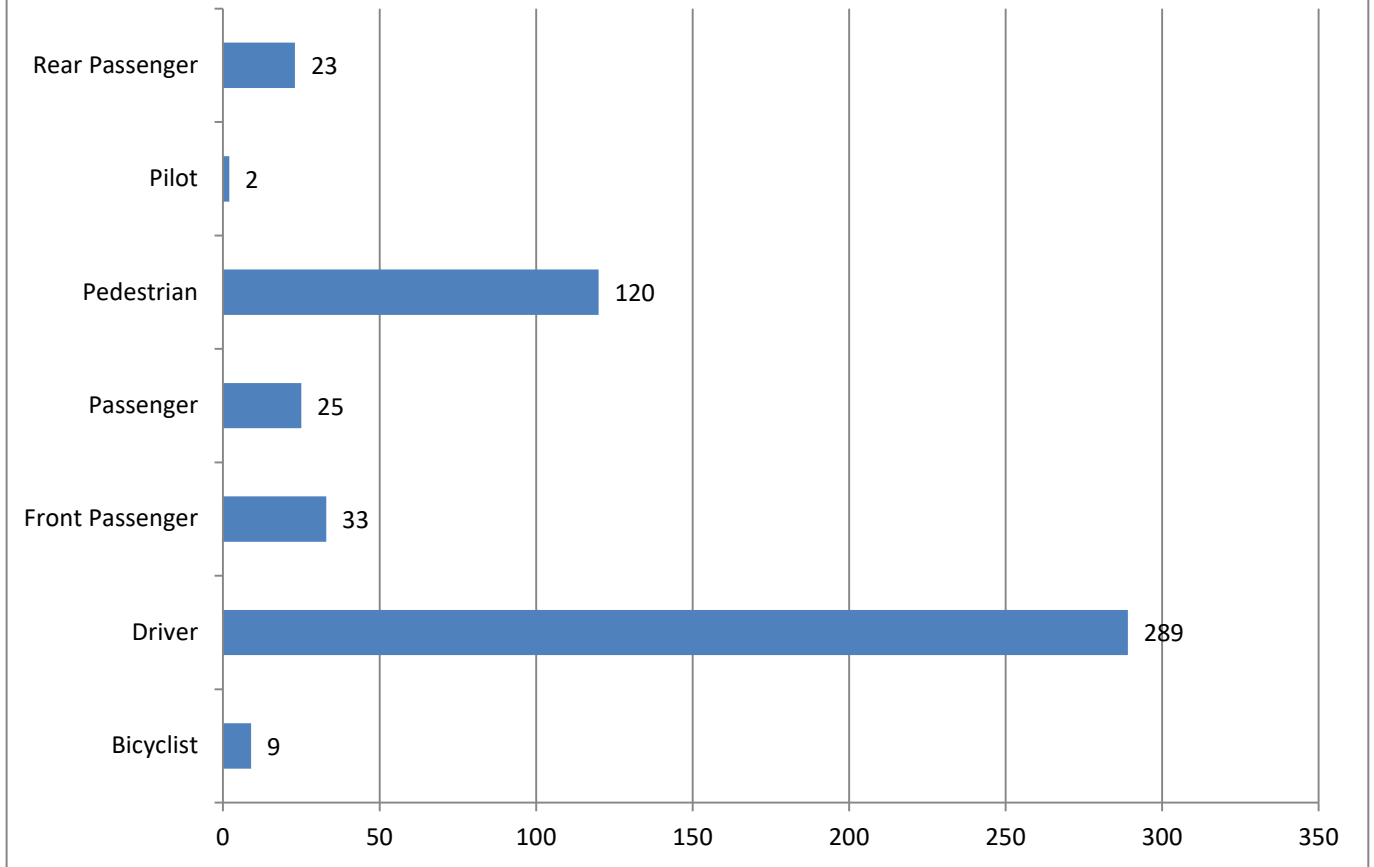


2018 Suicide Deaths by Age



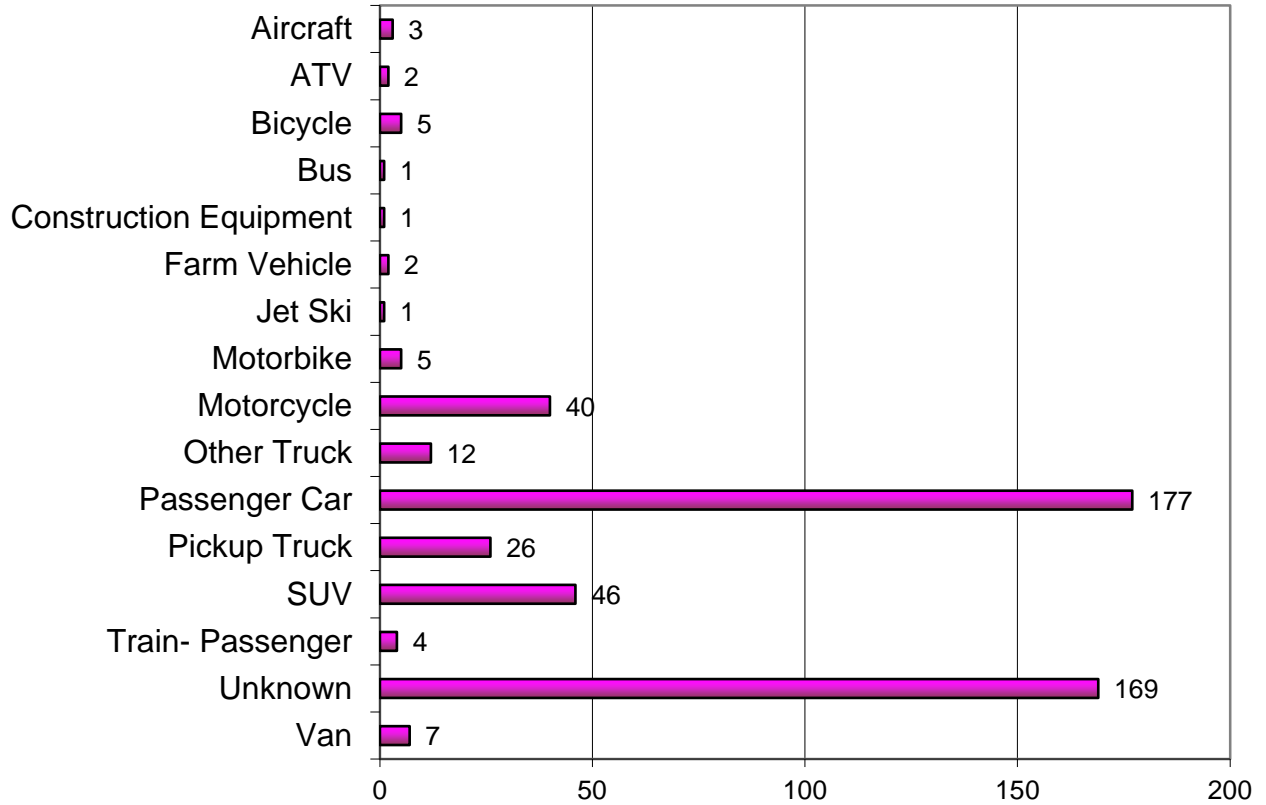
Total Deaths - 659

2018 Transportation Accidents Classified by Activity



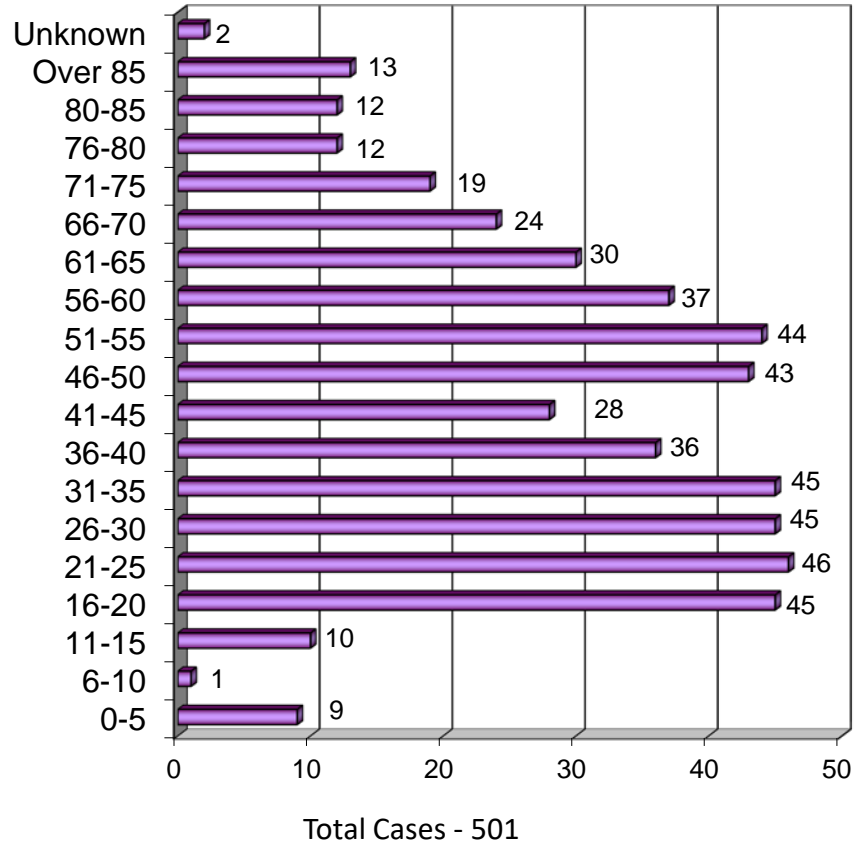
Total Cases – 501

2018 Transportation Deaths Type of Vehicle

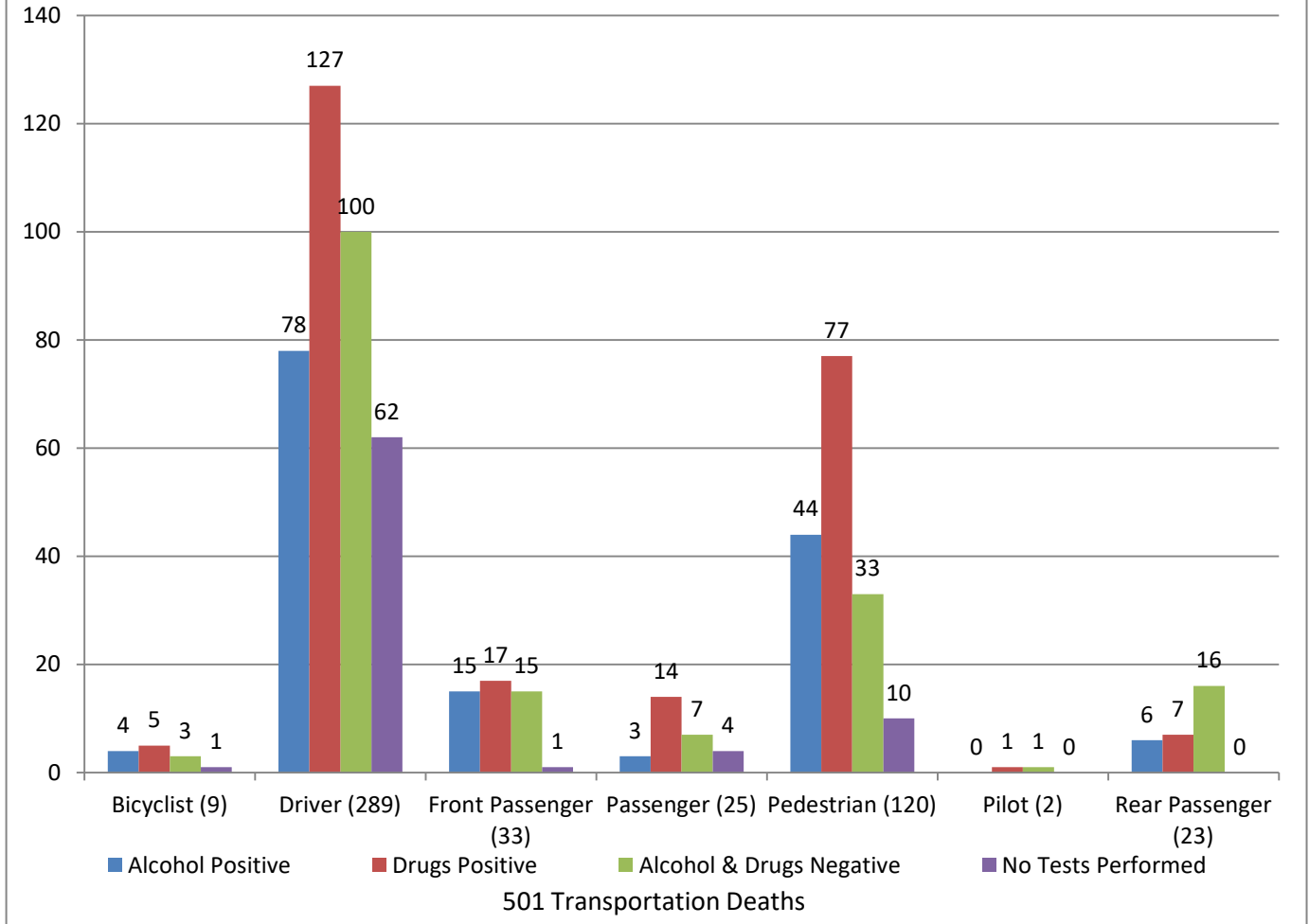


Total Cases - 501

2018 Transportation Deaths by Age

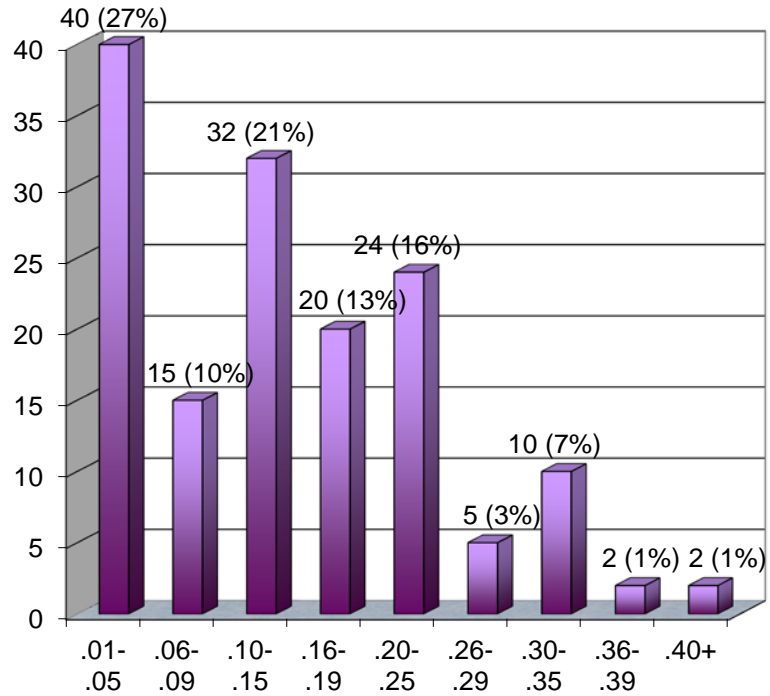


2018 Transportation Accidents Alcohol/Drug Results



The alcohol and drug tests are not mutually exclusive, so the numbers in parentheses may not add up to the numbers on the bar graphs. For example, a bicyclist may be positive for both alcohol and drugs.

**2018 Transportation Deaths
Blood Alcohol Concentration in 150 Cases
35%* Tested Positive**



501 Transportation Deaths
273 Negative for Alcohol
78 No Testing Performed

*Percent based on total cases tested for alcohol

ADDENDUM

Miscellaneous Data

1. Number of Autopsies	3823
Number of Partial Autopsies	1775
Number of CT Autopsies	32
2. Organ donations	123
3. Unclaimed bodies released to State Anatomy Board	385
4. Exhumations	0
5. Bodies transported to the OCME	5938

2018 Drug Classifications

Antidepressants

Amitriptyline
Bupropion
Citalopram
Clomipramine
Desipramine
Desmethylvenlafaxine
Doxepin
Fluoxetine
Fluvoxamine
Imipramine
Mirtazapine
Nardoxepin
Nortriptyline
Nortriptyline
Paroxetine
Sertraline
Trazodone
Venlafaxine

Antihistamines

Brompheniramine
Chlorpheniramine
Diphenhydramine
Doxylamine
Hydroxyzine
Meclizine
Pheniramine

Barbiturates / Antiepileptics

Butalbital
Carbamazepine
Lamotrigine
Levetiracetam
Pentobarbital
Phenobarbital
Phenytoin
Primidone
Topiramate

Benzodiazepines

7-Aminoclonazepam
Alprazolam
Chlordiazepoxide
Clonazepam

Benzodiazepines (continued)

Diazepam
Flurazepam
Lorazepam
Midazolam
Nordiazepam
Oxazepam
Temazepam
Triazolam

Carbon Monoxide

Cardiac Drugs

Amlodipine
Diltiazem
Flecainide
Metoprolol
Procainamide
Propranolol
Verapamil

Cocaine and Metabolites

Benzoyllecgonine

Fentanyl and Analogs

4-Fluoroisobutyryl fentanyl
Acetyl Fentanyl
Acrylfentanyl
Butyryl Fentanyl
Carfentanil
Despropionyl fentanyl
Fentanyl
Furanyl fentanyl
Methoxyacetyl fentanyl
Tetrahydrofuran fentanyl

Hallucinogens

Phencyclidine
Tenocyclidine

Inhalants

1,1-Difluoroethane
Halogenated Hydrocarbons
Nitrous Oxide

Neuroleptics

Amoxapine
Buspirone
Chlorpromazine
Clozapine
Haloperidol
Loxapine
Olanzapine
Prochlorperazine
Promethazine
Quetiapine
Thioridazine

Opioids

6-Monoacetylmorphine
Buprenorphine
Codeine
Free Morphine
Hydrocodone
Hydromorphone
Meperidine
Methadone
Mitragynine
Morphine
Normeperidine
Oxycodone
Oxymorphone
Tapentadol
Tramadol
U-47700

Other

Acetaminophen
Amantadine
Atomoxetine
Atropine
Benzoyllecgonine
Benztropine
Bupivacaine
Carisoprodol
GHB
Ketamine
Meprobamate
Quinine
Synthetic Cannabinoids
Zolpidem

Sympathomimetic Amines

Amphetamine
Ephedrine
Methamphetamine
Methylenedioxyamphetamine
Methylenedioxymethamphetamine
Phentermine
Phenylpropanolamine
Pseudoephedrine

Synthetic Cathinones

4-Chloroethcathinone
alpha-Pyrrolidinovalerophenone
Butylone
Dibutylone
Ethylone
MDPV
N-Ethylpentylone
Pentylone

