# Suicides Involving Veterans: *A Be Connected Arizona* Special Report

Arizona Violent Death Reporting System

January 1, 2015 – December 31, 2018

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January 1, 2015 - December 31, 2018

By David E. Choate

Center for Violence Prevention and Community Safety

A special report prepared by the Center for Violence Prevention and Community Safety, on behalf of Be Connected Arizona, July 2020.

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## Suicides Involving Veterans: A Be Connected Arizona Special Report

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The Arizona Violent Death Reporting System (AZ-VDRS) collects violent death data from multiple sources: death certificates issued by the Arizona Department of Health Services (ADHS), police reports obtained from investigating agencies, and autopsy reports from medical examiner offices. The purpose of this project is to assist stakeholders with strategic planning and prevention efforts aimed towards reducing the number of violent deaths that occur each year in Arizona. The data used for this report – *Suicides Involving Veterans* – were drawn from the compilation and analysis of three years of AZ-VDRS data, from January 1, 2015 through December 31, 2018.

AZ-VDRS recorded a total of 7,599 violent deaths for this period. From these, we excluded 1,447 (19.0%) homicides and 916 (12.1%) violent deaths of undetermined, unintentional, or other manners, leaving 5,236 (68.9%) suicides for analysis. We further excluded cases for individual analyses, based on available data limitations (e.g. missing injury or residence address information, age, veteran status, circumstances of the violent incident, etc.). There will also be some limitations to reporting a "low N" cell count. For example, if there are fewer than six decedents for a given analysis category (e.g. female veterans per residential zip code), we present the results as "<5". Instances of actual "zero" outcomes are reported as "0". This reporting practice is in keeping with our obligations to the Centers for Disease Control and Prevention (CDC), the AZ-VDRS sponsor.

We determined veteran status using the indicator for military veteran on the official death certificate; we did not seek external validation, and thus, our data may overcount non-veterans as veterans. Use of this definition is consistent with NVDRS standards and with prior research. Note that the term *veteran* may be defined differently elsewhere; for example, individuals who are ineligible for benefits based on discharge status may be excluded in other contexts. AZ-VDRS data analyses and rate calculations also may differ from those of other sources such as the ADHS when our respective analytic processes differ; for example, AZ-VDRS counts *occurrent* deaths (those occurring within the State, regardless of legal residency) rather than *resident* deaths (those of Arizona residents, regardless of location where death occurs). AZ-VDRS analyses include all decedents for whom we have sufficient data from the sources noted above, including but not limited to official death certificates. As a result, AZ-VDRS and ADHS reports overlap; at the same time, these organizations can each offer unique insights reflecting their respective analytic strategies. For this report, there are no known systematic errors in the AZ-VDRS veteran status counts.

For population estimates, we relied on the American Community Survey (US Census) 5-year estimates for 2015, 2016, 2017, and 2018 to compute crude rates where rates are presented. Note that in all the exhibits below, data and analyses represented are for the State of Arizona, 2015–2018, unless otherwise indicated.

#### Violent deaths

AZ-VDRS routinely examines suicides involving veterans, using a four-category standard unit of analysis:
1) non-veteran males; 2) non-veteran females; 3) veteran males; and 4) veteran females. The AZ-VDRS collects data on violent deaths that occur within Arizona, broadly defined as suicides and homicides, as well as undetermined deaths, unintentional firearm deaths, and legal interventions. Exhibit 1 below shows the distribution of the manners of death by veteran/sex category. It should be noted that where a cell's value equals five or less, the entry reads "<5" to protect anonymity, unless the cell is actually "0".

<b>Exhibit 1: Manner of Death</b>	y Sex and Veteran Status	2015-2018 (N=7599)
Exhibit 1. Wallice Of Death	y Jek alia veterali Jtatas	, 2013-2010 (14-7333)

	Veteran sex					
	Non- Veteran Male	Non- Veteran Female	Veteran Male	Veteran Female	Total	
	n	n	n	n	n	
Suicide	3058	1131	1008	39	5236	
Homicide	1038	314	88	7	1447	
Unintentional Firearm - Self-Inflicted	19	<5	6	0	>25	
Unintentional Firearm - Inflicted by other	16	10	<5	0	>26	
Unintentional Firearm - Unknown inflictor	<5	<5	0	0	>1	
Legal Intervention	167	14	26	0	207	
Undetermined Intent	319	266	61	<5	>646	
Other unintentional death	<5	0	0	0	>1	
Unintentional poisoning	<5	0	0	0	>1	
Total	4621	1738	>1189	>46	7599	

#### Statewide suicide rates

Population estimates were calculated using U.S. Census data derived from its American Community Survey (ACS). Using estimates generated with their 5-year estimates provided in ACS Table S2101. Rates are calculated for sex, age group, race/ethnicity, and county of residence. Rates are presented by reporting the number of suicide victims for a given category, per 100,000 population. The next four exhibits compare veterans and non-veterans, to provide a broad context of how the two groups compare on key demographics.

Exhibit 2 shows the suicide rate per 100,000 population by sex and veteran status of the victim. Veterans were at significantly greater risk than their non-veteran counterparts, by more than double the rates among males (73.8 vs. 35.2), and about three times more among female victims (31.4 vs. 10.6).

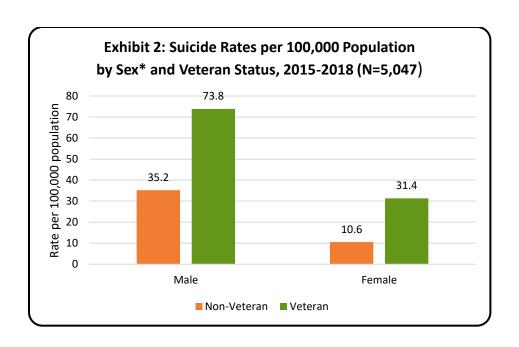


Exhibit 3 compares the race/ethnicity of suicide victims by veteran status. For White, Black, Latinx, and Other suicide victims, veterans were significantly at greater risk than non-veterans. For Native American victims, the rates were very similar, but were slightly higher for Native American non-veterans.

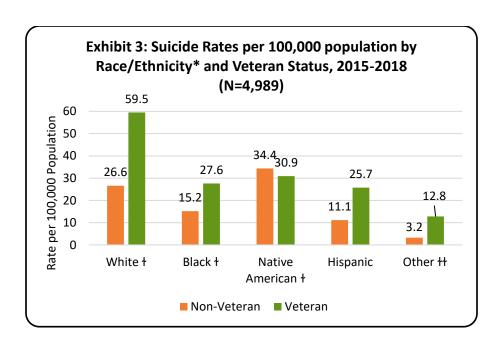


Exhibit 4 compares veteran and non-veteran suicide victims by adult age group. There are significant differences between veteran and non-veterans. While considering that overall, veterans have higher suicide rates than non-veterans, the notably differences in the shape of the respective distribution presents important information. Older veterans are at much greater risk than non-veterans, as can be seen in the chart, as the rate lines diverge as age increases. Conversely, young veterans (age 18-34) are at substantially higher risk than all other ages, regardless of veteran status. This distribution suggests that while veterans are at greater risk overall, there are vulnerabilities for younger (18-34) and older (64 and older) veterans that exaggerate their suicide risk.

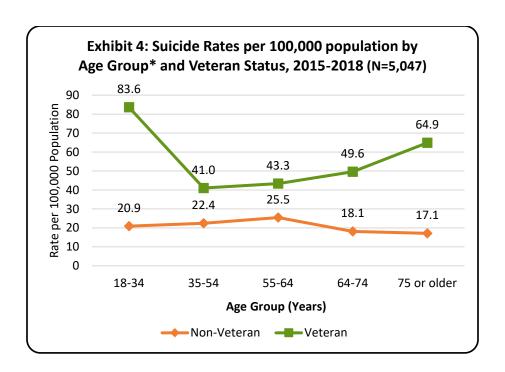
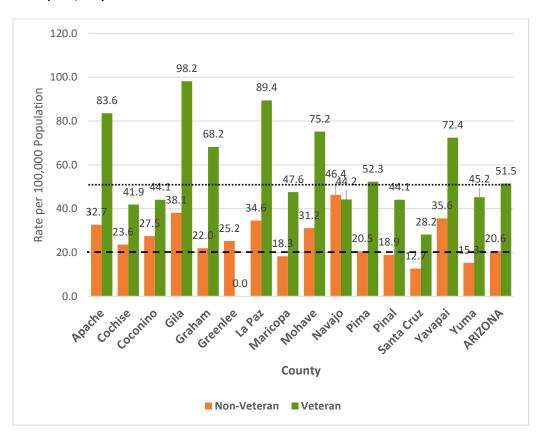


Exhibit 5 shows the suicide rate per 100,000 population by county of residence and veteran status. In all but two counties, Greenlee and Navajo, veterans had higher suicide rates than non-veterans. In Greenlee County, there were no veteran suicides reported in the data. In Navajo County, the rate among non-veterans was 46.4 per 100,000, and 44.2 among veterans. The population demographics of Navajo County, as it is largely comprised of Navajo Nation reservation lands, combined with the findings of the race/ethnicity distribution between veterans and non-veterans presented in Exhibit 3 above, potentially explains the distinction in Navajo County.

Exhibit 5 below displays two horizontal lines across the chart. The dotted line marks the veteran suicide rate for Arizona among all known counties of residence (51.5), and the dashed line marks the rate for non-veterans (20.6). These statewide rates are based on those decedents for whom the data had a valid entry for the county of residence.

Six counties had significantly higher than statewide suicide rates among veterans: Apache (83.6); Gila (98.2); La Paz (89.4); Mohave (75.2); and Yavapai (72.4). Each of those counties also had significantly higher suicide rates for non-veterans than the statewide rate. Respectively, Apache (32.7), Gila (38.1), La Paz (34.6), Mohave (31.2), and Yavapai (35.6) counties were each more than 50% higher than Arizona as a whole (20.6).

Exhibit 5: Suicide Rates per 100,000 population by County of Residence\* and Veteran Status, 2015-2018 (N=5,047)



### Suicides by residence

Exhibit 6 shows the distribution of suicides by the county of the decedent's residence, by veteran/sex category.

Exhibit 6: Residence County by Sex and Veteran Status, 2015-2018 (N=5,236)

			Vetera	an sex		
		Non- Veteran Male	Non- Veteran Female	Veteran Male	Veteran Female	Total
		n	n	n	n	n
Residence	Apache	56	11	10	0	77
County	Cochise	59	20	29	<5	>108
	Coconino	92	28	12	<5	>132
	Gila	50	12	22	0	84
	Graham	23	<5	6	0	>29
	Greenlee	6	0	0	0	(
	La Paz	14	6	9	0	29
	Maricopa	1553	613	466	23	265
	Mohave	143	44	72	<5	>259
	Navajo	103	36	13	0	152
	Pima	428	168	173	7	770
	Pinal	163	55	60	<5	>278
	Santa Cruz	13	<5	<5	0	>13
	Yavapai	157	69	77	0	303
	Yuma	66	19	26	<5	>11:
	Unknown Arizona County	10	<5	<5	0	>10
	Outside Arizona	116	41	30	<5	>18
	Missing or Unknown	6	0	0	0	
Total		3058	1131	1008	39	523

Exhibit 7 lists the number of decedents by zip code across the entirety of Arizona. The zip codes where the total number of suicides was less than six, are excluded from the table. The table does not show a column for female veterans. This because there were no female veteran victims attributed to any single zip code that had a total of six or more suicides. There were 378 zip codes with at least 1 suicide in Arizona from 2015-2018. After excluding those with less than six total suicides, there were 212 unique zip codes, which are presented in Exhibit 3 below. The exclusion of these low-incidence zip codes left 4,102 suicides for analyses.

Exhibit 7: Residence Zip Code by Veteran sex, 2015-2018
(N=4102)

(N=4102)		,	Veteran sex	<	
		Non- Veteran Male	Non- Veteran Female	Veteran Male	Total
Residence	85003	7	0	0	7
Zip Code	85004	6	0	0	6
	85006	7	<5	0	>7
	85007	5	0	0	5
	85008	19	7	0	26
	85009	9	0	0	9
	85012	8	0	0	8
	85013	11	<5	0	>11
	85014	14	5	5	24
	85015	11	5	0	16
	85016	15	8	0	23
	85017	12	5	6	23
	85018	17	10	6	33
	85019	<5	0	0	>1
	85020	25	12	5	42
	85021	15	9	0	24
	85022	31	10	13	54
	85023	12	5	0	17
	85024	8	<5	0	>8
	85027	21	<5	0	>21
	85028	5	7	0	12
	85029	20	8	9	37
	85031	13	0	0	13
	85032	34	14	11	59
	85033	20	9	6	35
	85035	10	<5	0	>10
	85037	14	5	0	19
	85040	10	0	0	10

85041	11	5	0	16
85042	15	<5	0	>15
85043	13	<5	0	>13
85044	14	7	0	21
85045	6	0	0	6
85048	0	7	0	7
85050	7	6	0	13
85051	25	10	0	35
85053	19	5	0	24
85083	6	5	0	11
85085	9	0	0	9
85086	15	14	8	37
85119	5	7	10	22
85120	15	8	8	31
85122	27	9	8	44
85123	5	0	0	5
85128	9	0	0	9
85132	18	0	7	25
85138	12	<5	<5	>12
85139	9	0	0	9
85140	13	<5	0	>13
85142	23	0	7	30
85143	10	9	7	26
85147	5	0	0	5
85201	27	9	7	43
85202	20	8	0	28
85203	15	7	0	22
85204	33	13	6	52
85205	17	17	8	42
85206	17	0	0	17
85207	16	8	7	31
85208	18	8	6	32
85209	15	7	8	30
85210	21	<5	0	>21
85212	6	0	0	6
85213	8	0	0	8
85215	6	6	0	12
85224	10	<5	6	>16
85225	23	8	0	31
85226	10	<5	0	>10
85233	18	5	0	23

85234	12	0	0	12
85248	21	0	10	31
85249	17	5	0	22
85250	10	0	0	10
85251	17	6	6	29
85253	7	0	0	7
85254	24	14	6	44
85255	19	10	0	29
85256	7	0	0	7
85257	19	7	0	26
85258	15	9	0	24
85259	5	0	0	5
85260	5	<5	0	>5
85268	13	<5	5	>18
85281	28	5	0	33
85282	17	12	11	40
85283	21	7	7	35
85286	9	5	6	20
85295	17	0	7	24
85296	11	0	6	17
85297	11	0	0	11
85298	7	5	0	12
85301	21	10	0	31
85302	10	7	0	17
85303	7	0	0	7
85304	14	<5	5	>19
85305	7	0	0	7
85306	6	<5	0	>6
85308	30	10	7	47
85323	17	<5	0	>17
85326	25	6	6	37
85331	13	6	0	19
85335	8	5	0	13
85338	17	0	0	17
85339	15	7	0	22
85340	12	<5	5	>17
85345	13	11	8	32
85349	5	0	0	5
85351	15	8	10	33
85353	11	0	0	11
85354	5	0	0	5

85355	5	0	0	5
85364	31	5	8	44
85365	16	9	10	35
85367	8	0	6	14
85373	0	0	6	6
85374	22	7	11	40
85375	15	0	16	31
85379	14	5	5	24
85381	9	8	<5	>17
85382	11	10	7	28
85383	10	0	0	10
85388	12	<5	0	>12
85390	7	6	0	13
85392	5	<5	0	>5
85395	6	0	0	6
85501	12	0	0	12
85541	21	8	16	45
85546	15	0	0	15
85550	6	0	0	6
85602	5	0	0	5
85603	9	0	0	9
85614	11	6	11	28
85615	5	0	0	5
85622	6	0	7	13
85629	7	0	0	7
85634	9	0	0	9
85635	14	5	9	28
85641	15	<5	6	>21
85648	7	0	0	7
85650	0	0	6	6
85653	11	5	0	16
85704	20	7	6	33
85705	33	7	11	51
85706	17	0	0	17
85710	19	16	10	45
85711	20	5	0	25
85712	19	11	8	38
85713	14	7	0	21
85714	6	0	0	6
85715	8	6	0	14
85716	16	10	0	26

85718	5	5	6	16
85719	22	6	0	28
85730	17	5	11	33
85735	<5	0	<5	>5
85736	6	0	0	6
85737	9	0	0	9
85739	11	0	9	20
85741	13	0	0	13
85742	11	0	0	11
85743	12	5	6	23
85745	9	8	0	17
85746	14	5	0	19
85747	9	0	0	9
85748	7	0	7	14
85750	8	0	6	14
85755	5	0	6	11
85756	18	6	0	24
85901	18	7	0	25
85911	8	0	0	8
85929	8	<5	0	>8
85935	6	0	0	6
85937	<5	<5	0	>5
85941	10	9	0	19
86001	19	0	0	19
86004	19	12	0	31
86005	7	0	0	7
86033	8	0	0	8
86040	8	0	0	8
86045	11	<5	0	>11
86046	6	0	0	6
86047	16	<5	0	>16
86301	12	7	11	30
86303	20	9	7	36
86305	9	5	7	21
86314	19	9	11	39
86315	7	0	0	7
86322	9	7	0	16
86323	7	6	0	13
86324	6	0	0	6
86325	9	0	0	9
86326	17	5	6	28

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8	6327	8	0	0	8
8	6333	5	0	6	11
8	6336	6	0	0	6
8	6351	6	5	0	11
8	6401	16	<5	16	>32
8	6403	14	<5	6	>20
8	6404	14	9	0	23
8	6406	12	6	6	24
8	6409	23	6	11	40
8	6413	6	0	0	6
8	6426	12	0	0	12
8	6429	7	0	0	7
8	6440	5	<5	0	>5
8	6442	20	<5	8	>28
8	6503	9	0	0	9
8	6505	6	0	0	6
8	6510	8	0	0	8
8	6520	5	0	0	5
8	8888	7	0	0	7
9	9999	25	7	<5	>32
		2669	844	589	4102

Total

Exhibit 8 shows the percentage of veterans of the total suicides for a given zip code that were veterans. Population estimates for Arizona place veterans at about 12% of the overall Arizona population. Given this measure as a guidance, any zip code with a percentage value greater than 12% has an elevated risk.

Exhibit 8: Percentage of Veteran Suicides of Total Suicides by Zip Code, 2015-2018								
Residence ZIP Code	%Veteran Suicide	Residence ZIP Code	%Veteran Suicide	Residence ZIP Code	%Veteran Suicide			
85001	0.0	85303	16.7	85724	100.0			
85003	11.1	85304	21.7	85730	31.4			
85004	0.0	85305	0.0	85732	0.0			
85005	0.0	85306	33.3	85734	0.0			
85006	15.4	85307	0.0	85735	33.3			
85007	0.0	85308	14.9	85736	12.5			
85008	13.3	85309	100.0	85737	27.8			
85009	16.7	85310	11.1	85739	42.9			
85012	11.1	85312	0.0	85740	0.0			
85013	25.0	85320	0.0	85741	26.3			
85014	20.8	85321	40.0	85742	16.7			

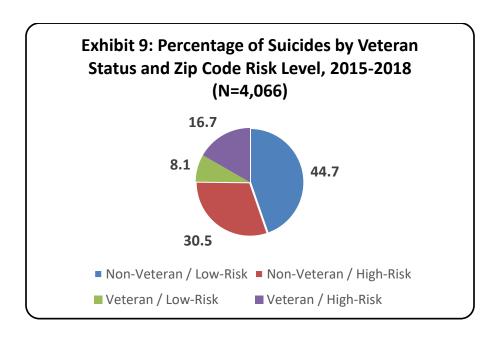
85015	19.0	85322	0.0	85743	29.2
85016	14.8	85323	9.1	85745	10.0
85017	29.2	85324	28.6	85746	13.6
85018	18.2	85325	40.0	85747	27.8
85019	16.7	85326	17.9	85748	38.9
85020	13.6	85328	0.0	85749	46.2
85021	7.7	85331	13.6	85750	31.6
85022	24.1	85332	20.0	85755	50.0
85023	10.5	85334	0.0	85756	17.2
85024	16.7	85335	13.3	85757	0.0
85027	4.0	85337	0.0	85901	7.1
85028	25.0	85338	13.0	85911	0.0
85029	24.3	85339	15.4	85912	50.0
85031	6.7	85340	23.8	85920	0.0
85032	18.6	85342	0.0	85924	25.0
85033	17.1	85343	0.0	85925	0.0
85034	100.0	85344	30.0	85926	0.0
85035	12.5	85345	27.3	85928	0.0
85037	5.0	85346	36.4	85929	7.7
85038	0.0	85348	0.0	85932	100.0
85040	9.1	85349	0.0	85933	50.0
85041	19.0	85350	33.3	85935	0.0
85042	10.0	85351	29.4	85936	28.6
85043	0.0	85352	0.0	85937	30.0
85044	15.4	85353	0.0	85938	0.0
85045	0.0	85354	0.0	85939	0.0
85048	28.6	85355	16.7	85940	100.0
85050	12.5	85356	33.3	85941	0.0
85051	7.7	85361	50.0	86001	15.4
85053	16.7	85362	33.3	86004	11.1
85054	22.2	85363	50.0	86005	0.0
85063	0.0	85364	18.2	86017	33.3
85083	8.3	85365	28.6	86018	0.0
85085	23.1	85367	35.0	86020	0.0
85086	21.1	85373	46.2	86021	0.0
85087	20.0	85374	27.5	86022	50.0
85091	0.0	85375	44.4	86023	0.0
85103	0.0	85377	40.0	86025	0.0
85118	33.3	85378	42.9	86029	0.0
85119	45.5	85379	24.0	86030	0.0
85120	25.8	85381	19.0	86031	0.0
85121	0.0	85382	25.0	86033	0.0
85122	17.8	85383	17.6	86034	0.0

85123	28.6	85387	33.3	86035	0.0
85128	7.7	85388	11.8	86039	0.0
85131	0.0	85390	7.1	86040	8.3
85132	26.9	85392	33.3	86042	0.0
85133	0.0	85395	33.3	86043	0.0
85137	50.0	85396	33.3	86044	0.0
85138	25.0	85413	50.0	86045	0.0
85139	0.0	85501	7.1	86046	8.3
85140	5.9	85502	100.0	86047	17.4
85142	21.2	85530	0.0	86053	0.0
85143	25.9	85532	50.0	86054	0.0
85145	0.0	85533	0.0	86237	100.0
85147	0.0	85534	0.0	86301	35.5
85172	0.0	85539	0.0	86303	19.4
85173	0.0	85541	34.0	86305	33.3
85175	0.0	85542	0.0	86314	26.8
85193	0.0	85543	100.0	86315	9.1
85194	0.0	85544	50.0	86320	33.3
85201	15.9	85545	100.0	86322	15.8
85202	17.1	85546	20.0	86323	23.5
85203	0.0	85550	0.0	86324	14.3
85204	11.5	85552	25.0	86325	18.2
85205	20.5	85553	0.0	86326	20.7
85206	20.8	85554	100.0	86327	25.0
85207	22.6	85601	0.0	86332	33.3
85208	18.8	85602	12.5	86333	42.9
85209	26.7	85603	0.0	86334	40.0
85210	4.0	85606	0.0	86335	33.3
85212	20.0	85607	0.0	86336	30.8
85213	25.0	85609	0.0	86337	0.0
85215	25.0	85610	0.0	86338	0.0
85216	0.0	85613	100.0	86351	8.3
85219	0.0	85614	39.3	86367	0.0
85224	33.3	85615	22.2	86401	41.0
85225	8.6	85616	40.0	86403	29.2
85226	6.7	85617	0.0	86404	11.5
85228	0.0	85620	100.0	86406	25.0
85231	0.0	85621	0.0	86409	26.8
85233	20.0	85622	53.8	86413	33.3
85234	6.7	85623	0.0	86415	0.0
85238	0.0	85625	33.3	86426	16.7
85242	0.0	85627	0.0	86429	33.3
85248	27.8	85629	28.6	86431	100.0

		Ī		ı	
85249	8.3	85630	0.0	86432	0.0
85250	7.1	85631	100.0	86434	0.0
85251	23.3	85632	0.0	86435	0.0
85253	10.0	85634	0.0	86436	50.0
85254	15.6	85635	33.3	86438	0.0
85255	6.3	85637	100.0	86440	21.4
85256	11.1	85638	40.0	86441	50.0
85257	16.1	85641	27.3	86442	26.5
85258	10.7	85643	57.1	86444	0.0
85259	0.0	85645	0.0	86502	0.0
85260	35.7	85646	0.0	86503	0.0
85262	33.3	85648	9.1	86504	0.0
85263	100.0	85650	54.5	86505	22.2
85264	100.0	85653	5.6	86507	0.0
85266	50.0	85658	22.2	86510	0.0
85268	22.7	85701	0.0	86511	0.0
85269	0.0	85702	0.0	86512	0.0
85281	10.8	85704	17.1	86514	0.0
85282	27.5	85705	22.6	86515	20.0
85283	21.6	85706	4.5	86520	0.0
85284	0.0	85707	100.0	86538	33.3
85286	28.6	85710	22.9	86540	0.0
85294	100.0	85711	11.8	86544	100.0
85295	25.0	85712	23.1	86547	0.0
85296	30.0	85713	15.4	86556	0.0
85297	6.7	85714	0.0	99977	
85298	29.4	85715	17.6	Unknown	12.5
85298	29.4	85716	9.7	Arizona Zip	
85301	8.3	85718	41.2	99988 Outside	
85302	15.0	85719	12.1	Arizona	17.4
				00000	
				99999	F 0
				Unknown or Missing	5.0
				INIISSIIIR	

#### Suicides involving male victims

The next set of analyses depend solely on comparing male suicide victims. The analyses use the residence zip code proportions reported above to identify zip codes of comparatively "low" and "high" risk level. These two levels are defined for our purposes as a zip code with a proportion of veteran suicides that approximate the overall population distribution (i.e. "low risk"), and a those zip codes with a proportion of suicides that are more than one standard deviation of the mean above the overall proportion (i.e. "high-risk"; veteran proportion = 18.2%). As described above, there were too few female veteran suicides to permit a zip-code level of analysis, and the findings in the following sections are for males only. We used four analysis categories defined as: 1) non-veteran male living in a low-risk zip code; 2) non-veteran male living in a high-risk zip code; 3) veteran male living in a low-risk zip code; and 4) veteran male living in a high-risk zip code. Exhibit 9 shows the distribution of suicides based on these categorizations.



Significant differences were observed in the veteran/zip-code status of decedents when comparing race/ethnicity. There were differences among Native American and Hispanic/Latinx victims, where a higher proportion of non-veterans in both low- and high-risk zip codes were present. See Exhibit 10 below.

Exhibit 10: Race and Ethnicity by Veteran/Zip-Code Status*, 2015-2018 (N=4019)											
			Vet	eran an	d Zip Sta	itus					
	/ Lov	eteran / Risk ip	Non-Veteran / High Risk Zip		Veteran / Low Risk Zip		Veteran / High Risk Zip		Total		
	n	%						n	%		
White, Non- Hispanic	1136	63.5	994	80.9	284	86.1	620	92.3	3034	75.5	
Black	63	3.5	33	2.7	10	3.0	14	2.1	120	3.0	
Native American	206	11.5	22	1.8	6	1.8	<5	0.6	>234	5.9	
Hispanic, Any Race Asian or Pacific	350	19.6	164	13.3	24	7.3	29	4.3	567	14.1	
Islander, and Other	31	1.7	16	1.3	6	1.8	5	0.7	60	1.5	

Exhibit 11 shows the suicides by age group. The differences were both significant and substantial, with both veteran groups (low and high-risk residence zip codes) were much older than non-veteran suicide victims. Notably, more than half (60.5%) of veteran/high-risk decedents were age 65 or older, compared to 50.3% of veteran/low-risk victims, and just 16.9% and 10.2% of non-veterans from high- and low-risk zip codes, respectively.

330 100.0

672 100.0

4019 | 100.0

1788 | 100.0 | 1229 | 100.0 |

Total

Exhibit 11: Age Group by Veteran/Zip-Code Status*, 2015-2018 (N=3924)												
	Non-Veteran / Low Risk Zip		Non-Veteran / High Risk Zip		Veteran / Low Risk Zip		Veteran / High Risk Zip		Total			
	n	%	n	%	n	%	n	%	n	%		
8-34 years	677	37.9	322	26.2	57	17.3	68	10.1	1124	28.6		
35-54 years	590	33.0	436	35.5	64	19.4	100	14.9	1190	30.3		
55-64 years	287	16.1	214	17.4	44	13.3	102	15.2	647	16.5		
65-74 years	113	6.3	112	9.1	82	24.8	175	26.0	482	12.3		
75 or older	69	3.9	96	7.8	84	25.5	232	34.5	481	12.3		
Total	1788	100.0	1229	100.0	330	100.0	672	100.0	3924	100.0		

Exhibit 12 shows the results of selected demographic characteristics by their veteran/zip-code status. For completed education, marital status, and birthplace, there were significant differences across the groups in all three areas. For example, a completed college degree was most common among veterans from high-risk zip codes, with 36.2% having an associate degree or higher. This compared to 26.8% of veterans from low-risk zip codes, and 22.9% and 20.5% of non-veterans from high- and low-risk zip codes, respectively.

For marital status, there was a substantial difference between veterans and non-veterans and whether that had never been married. Veterans from low- and high-risk zip codes had never been married just 10.2% and 12.1% of the time, compared to 51.4% and 41.4% of their non-veteran neighbors. Veterans from all areas were less likely than non-veterans to have been born in Arizona, or a foreign country.

Exhibit 12: Completed Education, Marital Status, Veteran Status and Birthplace among Suicide Victims Aged 18 or Older by Veteran/Zip-Code Status, 2015-2018 (N=4,066)

	Non- Veteran / Low Risk Zip		Non- Veteran / High Risk Zip		Veteran / Low Risk Zip		Veteran / High Risk Zip		Total	
	N	%	N	%	N	%	N	%	N	
Completed Education*										
<= 8th grade	89	4.9	42	3.4	8	2.4	5	0.7	144	3.5
9th - 12th grade	320	17.6	186	15.0	11	3.3	32	4.7	549	13.5
High school or GED grad	640	35.2	453	36.5	128	38.7	222	32.8	1443	35.5
Some college credit	353	19.4	252	20.3	87	26.3	160	23.6	852	21.0
Associate or bachelor's degree	288	15.8	214	17.3	69	20.8	173	25.6	744	18.3
Advanced Degree	86	4.7	69	5.6	20	6.0	72	10.6	247	6.1
Unknown	42	2.3	24	1.9	8	2.4	13	1.9	87	2.1
Marital Status*										
Never Married	934	51.4	513	41.4	69	10.2	82	12.1	1598	39.3
Married	396	21.8	332	26.8	107	32.3	281	41.5	1116	27.4
Married, but Separated	87	4.8	51	4.1	18	5.4	20	3.0	176	4.3
Divorced	327	18.0	289	23.3	97	29.3	194	28.7	907	22.3
Widowed	51	2.8	44	3.5	38	11.5	94	13.9	227	5.6
Single, unspecified	<5	0.2	<5	0.2	0	0.0	<5	0.1	>3	>0.2
Unknown	19	1.0	7	0.6	<5	0.6	5	0.7	>31	>0.8
Birthplace*										
Arizona	663	36.5	331	26.7	56	17.2	73	11.0	1123	27.7
Other US state or territory	953	52.4	795	64.1	258	79.4	579	86.9	2585	63.8
Foreign Country	164	9.0	95	7.7	11	3.4	14	2.1	284	7.0
Unknown	38	2.1	19	1.5	6	1.8	11	0.3	74	1.8

<sup>\*</sup> Statistically significant at p < .05

Exhibit 13 details the type of location where the fatal injury occurred, by veteran/zip-code status. There were no significant differences across the veteran/zip-code categories. Notably, for all suicide victims, nearly three-quarters suffered their fatal injuries at home.

Exhibit 13: Location of Injury by Veteran/Zip Status, 2015-2018 (N=4,066)

	/ Lov	eteran v Risk ip	/ Hig	eteran h Risk ip	Lov	eran / v Risk Zip	Higl	eran / n Risk Zip	To	tal
Location of Injury	N	%	N	%	N	%	N	%	N	%
House or Apartment	1215	66.8	883	71.2	248	76.3	531	79.4	2877	73.4
Street/road, sidewalk, alley	83	4.6	53	4.3	12	3.7	21	3.1	169	4.3
Motor vehicle (excluding school bus, and public transportation)	113	6.2	80	6.5	18	5.5	35	5.2	246	6.3
Commercial establishment (bar, store, service station, etc.)	17	0.9	11	0.9	<5	0.6	<5	0.3	>28	0.8
Parking lot/public parking garage	36	2.0	25	2.0	7	2.2	16	2.4	84	2.1
Jail, prison, group home, shelter, other supervised residential facility	39	2.1	31	2.5	<5	0.9	<5	0.4	>70	1.9
Park, playground, public use area	26	1.4	20	1.6	5	1.5	10	1.5	61	1.6
Natural area (e.g., field, river, beaches, woods)	141	7.8	54	4.4	15	4.6	35	5.2	245	6.3
Hotel/motel	48	2.6	29	2.3	12	3.7	12	1.8	101	2.6
Other	76	4.2	42	3.4	8	2.5	9	1.3	135	3.4
Unknown	24	1.3	12	1.0	<5	0.3	<5	0.4	>36	1.0
Total	1818	100.0	1240	100.0	325	100.0	669	100.0	3918	100.0

<sup>\*</sup> Statistically significant at  $p \le .05$ 

Exhibit 14 displays the results examining the method of injury used in the suicide. Veterans of both zipcode groups were significantly more likely to have used a firearm in the suicide, compared to nonveterans (81.4% and 86.3% compared to 53.7 and 63.0%, respectively). Also, of note, veterans who lived in low-risk communities died from poisoning 6.2% of the time, which was nearly eight times the percentage (0.8%) of veterans from high-risk zip codes.

Exhibit 14: Method of	Exhibit 14: Method of Death by Veteran/Zip-Code Status, 2015-2017 (N=3,812)											
	/ Lov	eteran v Risk ip	/ Hig	eteran h Risk ip	Lov	eran / v Risk Zip	Hig	eran / h Risk Zip	Тс	tal		
Method	N	%	N	%	N	%	N	%	N	%		
Firearm	977	53.7	781	63.0	263	81.4	544	86.3	2565	67.3		
Sharp Instrument	31	1.7	14	1.1	<5	1.2	9	1.4	>54	1.4		
Blunt Instrument	67	3.7	25	2.0	<5	0.6	<5	0.3	>96	2.4		
Hanging, strangulation, suffocation	564	31.0	290	23.4	40	12.4	67	10.6	961	25.2		
Poisoning	151	8.3	110	8.9	20	6.2	5	0.8	286	7.5		
Other †	28	1.5	20	1.6	<5	0.6	5	0.8	>53	1.4		
Total	1818	100.0	1240	100.0	323	100.0	630	100.3	3812	100.0		

<sup>†</sup> Including, but not limited to falls, fire/burns, motor vehicles and drowning.

Exhibit 15 below summarizes circumstance characteristics of the suicide victims, by veteran / zip-code status. The table summarizes 24 different measures, organized into five different dimensions: 1) mental health and illness; 2) substance abuse/addiction; 3) interpersonal problems; 4) life stressors; and 5) suicidal history. The individual measures are mutually exclusive, and the table reports the number (and percent) of decedents for whom the circumstance was true. Additionally, each of the five dimensions are scaled with a measure (i.e. "Any...") indicating the number of decedents who had at least one individual measure in its category coded as true.

Most of the mental health measures saw significant differences across the veteran / zip-code groups. The general tendency was for non-veterans, regardless of neighborhood, to report higher rates of current depressed mood, current or past mental health treatment, or for any one or more mental health measure. This same pattern was seen with the alcohol and substance abuse measures.

Analyzing interpersonal problem measures, non-veterans were more likely to have had intimate partner problems, and family and other relationship problems than veteran suicide victims. There were several life stressor measures with significant differences. Job, financial, school, and recent criminal problems were all more likely for non-veterans. Physical health problems were about twice as common among veterans. Veterans in high-risk zip-codes had 42.9% of the time, compared to 23.2 non-veterans from the same neighborhoods. Veterans in low-risk zip-codes had 36.9% of the time, compared to 15.5 non-veterans from the same neighborhoods.

A history of suicidal thoughts and attempts were more common among non-veterans than veterans, regardless of where they lived.

<sup>\*</sup> Statistically significant at p < .05

Exhibit 15: Circumstances of Suicide Victims in Arizona by Veteran and Zip-Code Status, 2015-2018 (N=3,814)										
	Vete Low- (n=1	ran / -Risk	Vete High	on- eran / i-Risk 1182)	Veteran / Low-Risk (n=317)		Veteran / High-Risk (n=645)		Total (N=3814)	
Mental Health	N	%	N	%	N	%	N	%	N	%
Current Mental Health Problem	693	41.5	509	43.1	125	39.4	275	42.6	1602	42.0
Current Depressed Mood*	612	36.7	464	39.3	95	30.0	221	34.3	1392	36.5
Ever Treated for Mental Illness or	479	28.7	354	29.9	60	18.9	147	22.8	1040	27.3
Substance Misuse*	473	20.7	334	23.3	00	10.5	147	22.0	1040	27.5
Current Treatment for Mental Illness	323	19.4	261	22.1	45	14.2	119	18.4	748	19.6
or Substance Misuse*										
Any Mental Health Problem*	1003	60.1	746	63.1	177	55.8	380	58.9	2306	60.5
Substance Abuse / Addiction	240	20.4	1 222	40.7	۱ ۵-	440	1.00	46.4	726	40.0
Alcohol Problem*	340	20.4	233	19.7	47	14.8	106	16.4	726	19.0
Other Substance Problem*	382	22.9	227	19.2	26	8.2	46	7.1	681	17.9
Other Addiction (gambling, sexual, etc.)	8	0.5	9	0.8	<5	NA	<5	NA	>17	0.6
Any Addiction Problem*	602	36.1	398	33.7	61	19.2	136	21.1	1197	31.4
Interpersonal	002	30.1	336	55.7	01	13.2	130	21.1	1157	31.4
Family Relationship Problem*	168	10.1	119	10.1	19	6.0	31	4.8	337	8.8
Intimate Partner Problem*	518	31.1	328	27.7	61	19.2	124	19.2	1031	27.0
Other Relationship Problem*	40	2.4	25	2.1	<5	NA	9	1.4	>74	2.0
Perpetrator of Interpersonal Violence										
in Past Month	52	3.1	41	3.5	10	3.2	18	2.8	121	3.2
Victim of Interpersonal Violence in	C	0.4	_	0.4	_	0.0	, F	NIA	.11	0.2
Past Month	6	0.4	5	0.4	0	0.0	<5	NA	>11	0.3
Suicide of Friend/Family in Past 5	33	2.0	20	1.7	5	1.6	8	1.2	66	1.7
Years	33	2.0	20		)	1.0	0	1.2	00	1.7
Other Death of Friend/Family	115	6.9	65	5.5	17	5.4	50	7.8	247	6.5
Any Interpersonal Problem*	756	45.3	496	42.0	100	31.5	201	31.2	1553	40.7
Life Stressor					1		1			
Physical Health Problem*	258	15.5	274	23.2	117	36.9	277	42.9	926	24.3
Job Problem*	197	11.8	148	12.5	19	6.0	37	5.7	401	10.5
Recent Criminal Related Legal	139	8.3	115	9.7	19	6.0	34	5.3	307	8.0
Problem*										
Other Legal Problems	45	2.7	40	3.4	7	2.2	14	2.2	106	2.8
Financial Problem*	160	9.6	137	11.6	17	5.4	47	7.3	361	9.5
School Problem* Eviction or loss of home	34	2.0	18 50	1.5 4.2	<5	NA 2 0	<5	NA 2.4	>52 138	1.4
Any Life Stressor*	<5 684	NA 41.0	597	4.2 50.5	9 167	2.8 52.7	22 366	3.4 56.7	1814	3.6 47.6
Suicide Event	004	41.0	ופנן	50.5	10/	J2.1	300	30.7	1014	47.0
History of Suicide Attempts*	363	21.8	238	20.1	51	16.1	95	14.7	747	19.6
Disclosed Intent to Complete Suicide	517	31.0	361	30.5	81	25.6	194	30.1	1153	30.2
History of Suicidal Thoughts*	840	50.4	836	70.7	132	41.6	295	45.7	2103	55.1
Any Indication of Suicide*	1005	60.3	648	54.8	160	50.5	344	53.3	2103	56.6
* Statistically significant at n < OF	1003	00.5	040	J+.U	100	50.5	J-7-T	JJ.J	2137	50.0

<sup>\*</sup> Statistically significant at p < .05

Note: Circumstance characteristics are not mutually exclusive, and any victim may have any number of circumstances present.

#### Suicides involving female victims

The final set of analyses focus on female victims of suicide. Men outpace women by more than a two-to-one ratio, and the number of female veteran suicide victims is sufficiently low as to prohibit the same level of geospatial analyses as was available to male victims. Given this limitation, we restricted the analyses to just those women who reside in Maricopa County.

There were a total of 1,198 suicides in the data, but after excluding those for whom we did not known the veteran status (N=9), and those living outside Maricopa County (N=534), there were 636 cases for analyses. See Exhibit 16 below.

Exhibit 16: Residence County among Female Suicide Victims by Veteran Status, 2015-2018 (N=1,198)

	Non-Veteran		Veteran		Unkr	nown	Total		
	n	% n % n %		%	n	%			
Maricopa	613	54.2	23	59.0	9	32.1	645	53.8	
Pima	168	14.9	7	17.9	5	17.9	180	15.0	
All Other Arizona Counties	313	27.7	6	15.4	15	53.6	334	27.9	
Outside Arizona	41	3.6	3	7.7	1	3.6	45	3.8	
Total	1131	100.0	39	100.0	28	100.0	1198	100.0	

Exhibit 17 shows the race/ethnicity distribution for female suicide victims residing in Maricopa County. There were no significant differences between veteran and non-veteran victims.

Exhibit 17: Race and Ethnicity among Female Maricopa County Residents by Veteran Status\*, 2015-2018 (N=632)

		Veterar	То	+ol			
	Non-V	eteran	Vete	eran	Total		
	n	%	n	%	n	%	
White, Non-Hispanic	482	79.1	20	87.0	502	79.4	
Black	18	3.0	0	0.0	18	2.8	
Native American	15	2.5	0	0.0	15	2.4	
Hispanic, Any Race	23	3.8	<5	NA	>23	>3.8	
Asian or Pacific Islander, and Other	71	11.7	<5	NA	>71	>11.6	
Total	609	100.0	23	100.0	632	100.0	

Exhibit 18 shows the distribution by age group of female Maricopa County suicide victims. There were no significant differences between the veterans and non-veterans.

Exhibit 18: Age Group among Female Maricopa County Residents by Veteran Status, 2015-2018 (N=613)

	To	+-1					
	Non-V	eteran	Vete	eran	Total		
	n	%	n	%	n	%	
18-34 years	151	25.6	7	30.4	158	25.8	
35-54 years	221 37.5		10	43.5	231	37.7	
55-64 years	117	19.8	<5	NA	>117	>19.6	
65-74 years	74	12.5	<5	NA	>74	>12.4	
75 or older	27 4.6		<5	NA	>27	>4.6	
Total	590	100.0	23	100.0	613	100.0	

Comparing veterans and non-veterans on selected demographic characteristics (i.e. completed education, marital status, and birthplace), there were no significant differences. This is inconsistent with previous comparisons shown above. It is unclear if this finding (or lack of significant differences) is due to the specific nature of female suicide victims in Maricopa County, or that there were only 23 female veterans in the analysis data. See Exhibit 19 below.

Exhibit 19: Completed Education, Marital Status and Birthplace among Female Maricopa County Suicide Victims Aged 18 or Older by Veteran Status, 2015-2017 (N=613)

	Non- Veteran		Veteran		Total	
	N	%	N	%	N	%
Completed Education						
<= 8th grade	10	1.7	0	0.0	10	1.6
9th - 12th grade	28	4.7	<5	NA	29	4.7
High school or GED grad	167	28.3	<5	NA	169	27.6
Some college credit	136	23.1	10	43.5	146	23.8
Associate or bachelor's degree	189	32.0	5	21.7	194	31.6
Advanced Degree	52	8.8	5	21.7	57	9.3
Unknown	8	1.4	0	0.0	8	1.3
Marital Status						
Never Married	161	27.3	5	21.7	166	27.1
Married	172	29.2	5	21.7	177	28.9
Married, but Separated	30	5.1	<5	NA	>30	5.1
Divorced	178	30.2	11	47.8	189	30.8
Widowed	45	7.6	1	4.3	46	7.5

Single, unspecified	<5	NA	0	0.0	<5	NA
Unknown	<5	NA	0	0.0	<5	NA
Birthplace						
Arizona	143	24.2	7	30.4	150	24.5
Other US state or territory	382	64.7	16	69.6	398	64.9
Foreign Country	58	9.8	0	0.0	58	9.5
Unknown	7	1.2	0	0.0	7	1.1

<sup>\*</sup> Statistically significant at p  $\leq$  .05

There were no significant differences between veterans and non-veterans regarding the type of location of the fatal injury. See Exhibit 20 below.

Exhibit 20: Type of Location of Fatal Injury among Female Maricopa County Suicide Victims by Veteran Status, 2015-2018 (N=635)

	Non- Veteran		Veteran		Total	
Location of Injury	N	%	N	%	N	%
House or Apartment	494	80.7	18	78.3	512	80.6
Street/road, sidewalk, alley	10	1.6	0	0.0	10	1.6
Motor vehicle (excluding school bus and public transportation)	35	5.7	<5	NA	>35	5.7
Commercial establishment (bar, store, service station, etc.)	<5	NA	0	0.0	<5	NA
Parking lot/public parking garage	7	1.1	0	0.0	7	1.1
Jail, prison, group home, shelter, other supervised residential facility	<5	NA	0	0.0	<5	NA
Park, playground, public use area	5	0.8	0	0.0	5	0.8
Natural area (e.g., field, river, beach, woods)	17	2.8	<5	NA	>17	3.0
Hotel/motel	20	3.3	<5	NA	>20	3.3
Other	12	2.0	<5	NA	>12	2.0
Unknown	5	0.8	0	0.0	5	8.0
Total	612	100.0	23	100.0	635	100.0

<sup>\*</sup> Statistically significant at p  $\leq$  .05

Exhibit 21 displays the results of the method of death employed in the suicide. Although the percentage of veterans using a firearm appears much higher than non-veterans, it was not a statistically significant difference.

Exhibit 21: Method of Death among Female Maricopa Suicide Victims by Veteran Status, 2015-2018 (N=636)

		lon- teran	Ve	teran	To	otal	
Method	N	%	N	%	N	%	
Firearm	221	36.1	14	60.9	235	36.9	
Sharp Instrument	6	1.0	0	0.0	6	0.9	
Blunt Instrument	13	2.1	0	0.0	13	2.0	
Hanging, strangulation, suffocation	165	26.9	5	21.7	170	26.7	
Poisoning	198	32.3	<5	NA	>198	31.8	
Other †	10	1.6	0	0.0	10	1.6	
Unknown	0	0.0	0	0.0	0	0.0	
Total	613	100.0	>19	100.0	636	100.0	

<sup>†</sup> Including, but not limited to falls, fire/burns, motor vehicles and drowning.

Exhibit 22 below summarizes circumstance characteristics of Maricopa County female suicide victims, by veteran status. The table summarizes 24 different measures, organized into five different dimensions: 1) mental health and illness; 2) substance abuse/addiction; 3) interpersonal problems; 4) life stressors; and 5) suicidal history. The individual measures are not mutually exclusive, and the table reports those descents for whom the circumstance was true. Additionally, each of the five dimensions are scaled with a measure indicating the number of decedents who had at least one individual component for that dimension coded as "true."

There were no significant differences between veterans and non-veterans across each measure and dimension. While this is consistent with previously presented of female suicide victims living in Maricopa County, it is inconsistent with previous AZ-VDRS findings examining these measures with various combinations of subpopulations and analysis groups. This lack of significant differences in the findings, may be due to sample size.

<sup>\*</sup> Statistically significant at  $p \le .05$ 

Exhibit 22: Circumstances of Female Suicide Victims in Maricopa County by Veteran Status, 2015-2018 (N=632)

		Non- Veteran		Veteran		Total	
	N	%	N	%	N	%	
Mental Health							
Current Mental Health Problem	393	14.4	16	1.7	409	11.1	
Current Depressed Mood	283	10.3	7	0.7	290	7.9	
Ever Treated for Mental Illness or Substance Misuse	282	10.3	13	1.4	295	8.0	
Current Treatment for Mental Illness or Substance	232	8.5	10	1.1	242	6.6	
Misuse	232	0.5	10	1.1	242	0.0	
Any Mental Health Problem	157	5.7	6	0.6	163	4.4	
Substance Abuse / Addiction							
Alcohol Problem	113	4.1	4	0.4	117	3.2	
Other Substance Problem	136	5.0	3	0.3	139	3.8	
Other Addiction (gambling, sexual, etc.)	7	0.3	0	0.0	7	0.2	
Any Addiction Problem	206	7.5	7	0.7	213	5.8	
Interpersonal							
Family Relationship Problem	79	2.9	1	0.1	80	2.2	
Intimate Partner Problem	170	6.2	4	0.4	174	4.7	
Other Relationship Problem	16	0.6	0	0.0	16	0.4	
Perpetrator of Interpersonal Violence in Past Month	7	0.3	1	0.1	8	0.2	
Victim of Interpersonal Violence in Past Month	7	0.3	0	0.0	7	0.2	
Suicide of Friend/Family in Past 5 Years	23	8.0	3	0.3	26	0.7	
Other Death of Friend/Family	45	1.6	3	0.3	48	1.3	
Any Interpersonal Problem	308	11.3	10	1.1	318	8.6	
Life Stressor							
Physical Health Problem	167	6.1	4	0.4	171	4.6	
Job Problem	48	1.8	2	0.2	50	1.4	
Recent Criminal Related Legal Problem	29	1.1	2	0.2	31	0.8	
Other Legal Problems	20	0.7	0	0.0	20	0.5	
Financial Problem	71	2.6	0	0.0	71	1.9	
School Problem	11	0.4	0	0.0	11	0.3	
Eviction or Loss of Home	34	1.2	1	0.1	35	1.0	
Any Life Stressor	296	10.8	9	1.0	305	8.3	
Suicide Event							
History of Suicide Attempts	248	9.1	10	1.1	258	7.0	
Disclosed Intent to Complete Suicide	194	7.1	10	1.1	204	5.5	
History of Suicidal Thoughts	354	12.9	14	1.5	368	10.0	
Any Indication of Suicide	443	16.2	19	2.0	462	12.6	

<sup>\*</sup> Statistically significant at p < .05

Note: Circumstance characteristics are not mutually exclusive, and any victim may have any number of circumstances present.

#### **Endnotes**

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<sup>&</sup>lt;sup>1</sup> Huguet, N., Kaplan, M. S., & McFarland, B. H. (2014). The effects of misclassification biases on veteran suicide rate estimates. *American journal of public health*, 104(1), 151-155.