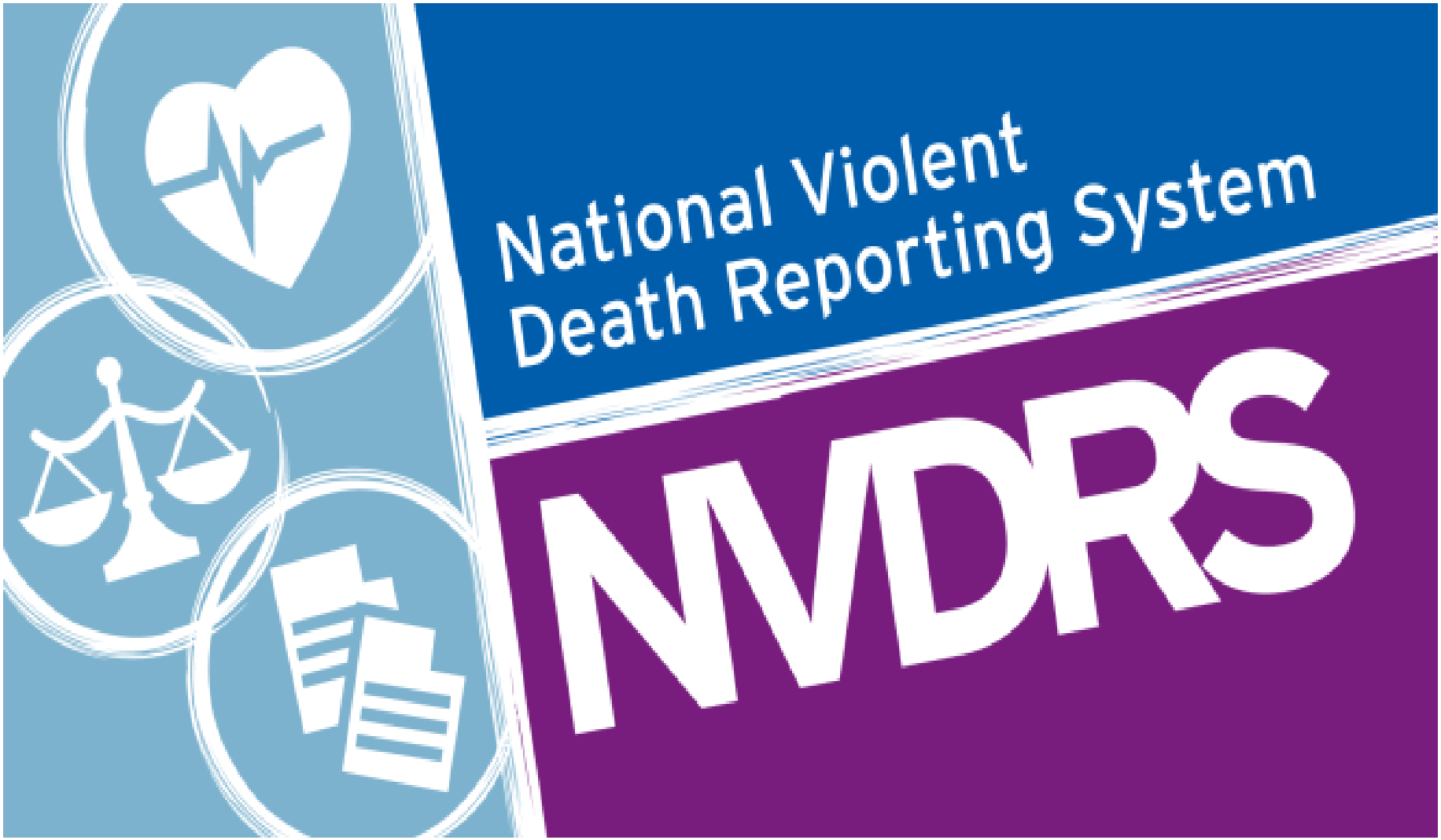
Ohio Violent Death Reporting System (OH-VDRS)

A New Source of Suicide Data From the Ohio Department of Health

Dr. Lisa Mills, Ph.D.

And

Luke Werhan

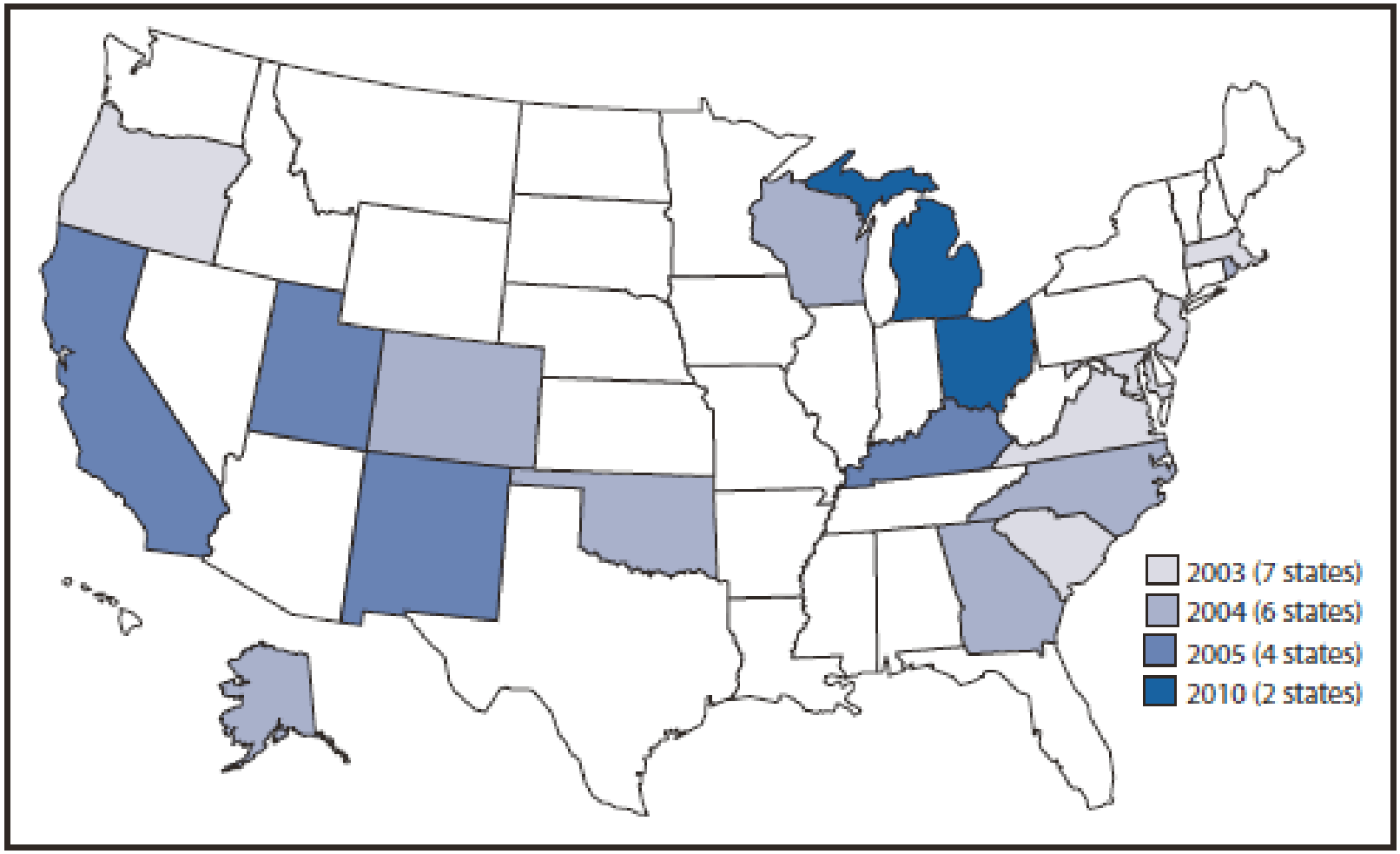


OHIO

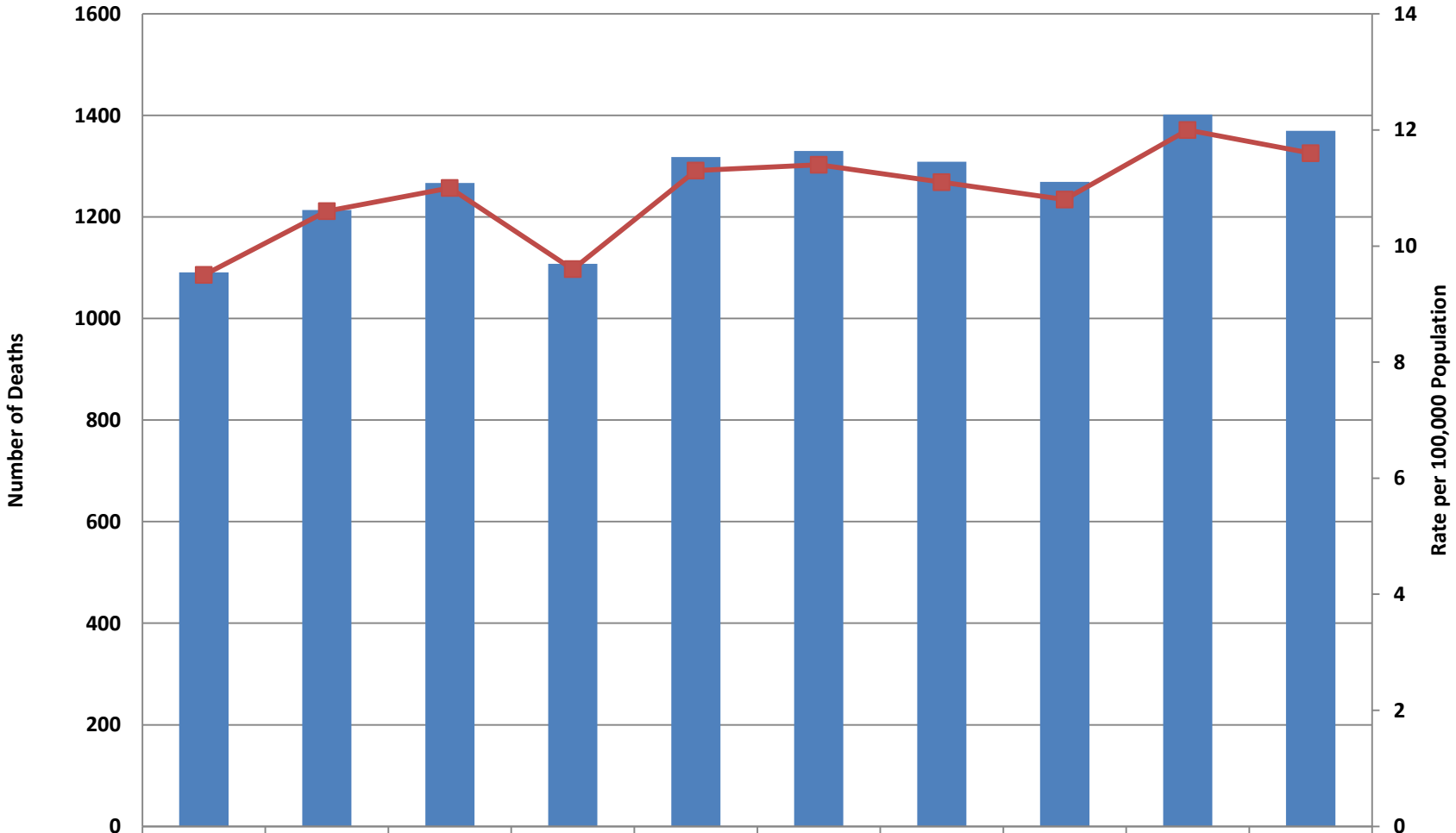
Purpose of NVDRS

- According to CDC, more than 50,000 people die from acts of violence, each year in the US
- Of those 50,000 deaths, 32,000 are suicides and 18,000 are homicides
- In 2002, CDC implemented the National Violent Death Reporting System (NVDRS)
- NVDRS collects risk factors on all deaths from violence, specifically suicides, homicides and unintentional firearm, legal intervention, terrorism and undetermined intent
- Data from 3 Primary Sources: Death Certificates, Coroner Reports and Police Reports
- CDC has time deadlines for entry of Primary Sources

Current NVDRS States



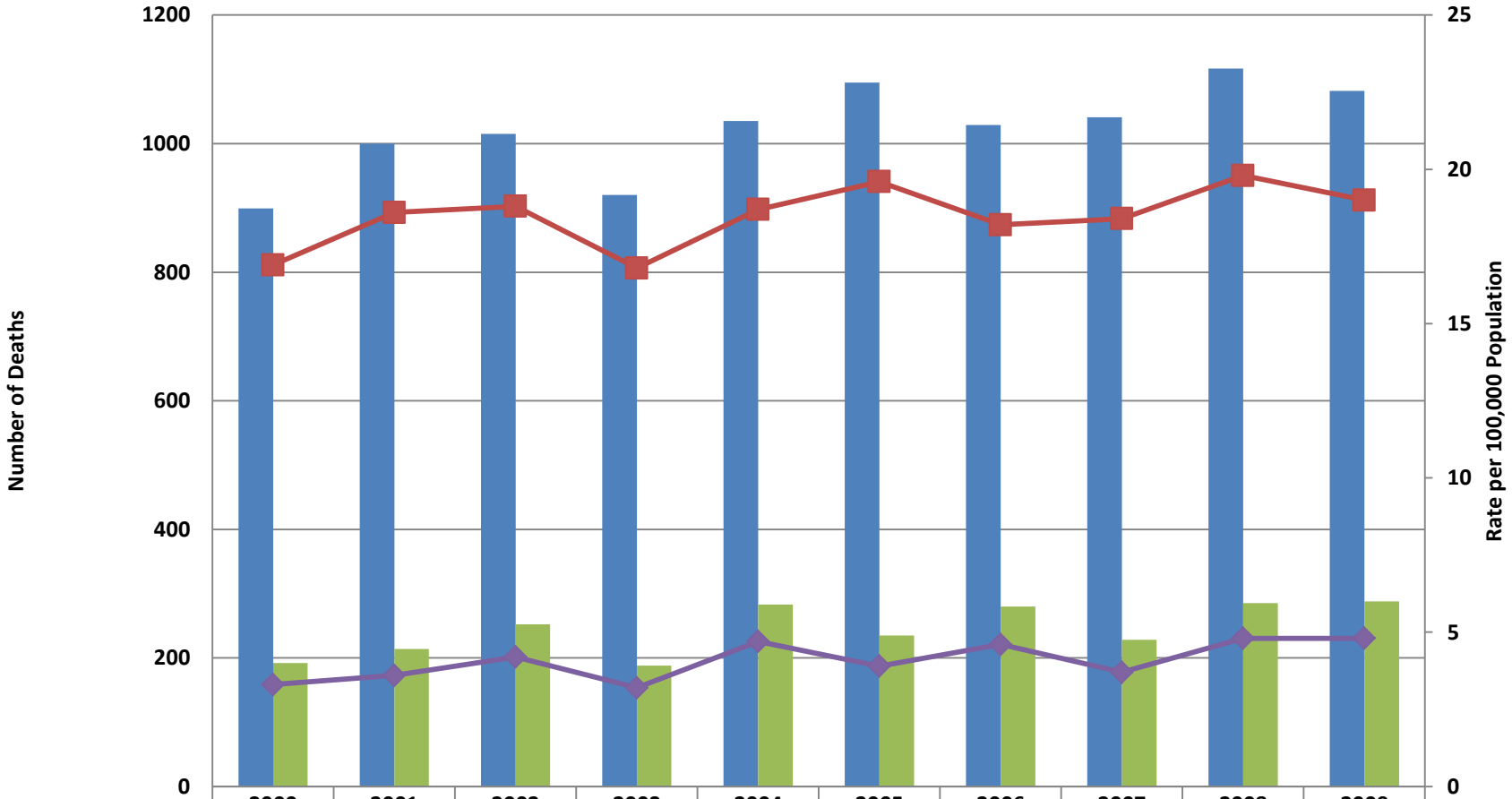
Number and Age Adjusted Rate of Suicide Deaths* by Year of Ohio Residents, 2000-2009



	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
COUNT	1091	1214	1267	1108	1318	1330	1309	1269	1402	1370
RATE	9.5	10.6	11	9.6	11.3	11.4	11.1	10.8	12	11.6

*ODH, Center for Public Health Statistics and Informatics, Vital Statistics as of 02/03/12

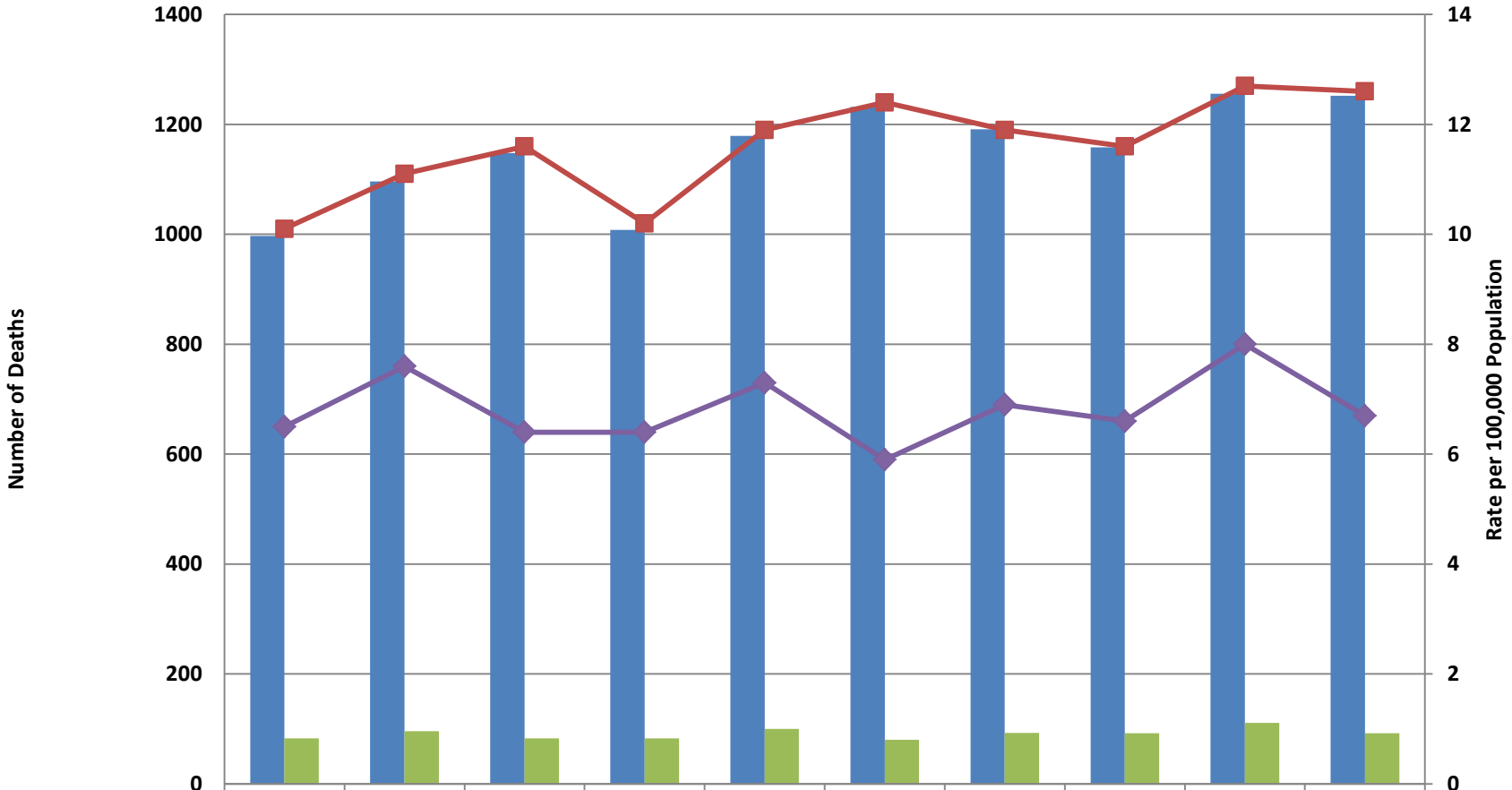
Number and Age Adjusted Rate of Suicide Deaths* by Sex of Ohio Residents, 2000-2009



	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
MALES	899	1,000	1,015	920	1,035	1,095	1,029	1,041	1,117	1,082
FEMALES	192	214	252	188	283	235	280	228	285	288
MALE RATE	16.9	18.6	18.8	16.8	18.7	19.6	18.2	18.4	19.8	19
FEMALE RATE	3.3	3.6	4.2	3.2	4.7	3.9	4.6	3.7	4.8	4.8

*ODH ,Center for Public Health Statistics and Informatics, Vital Statistics, as of 02/03/12

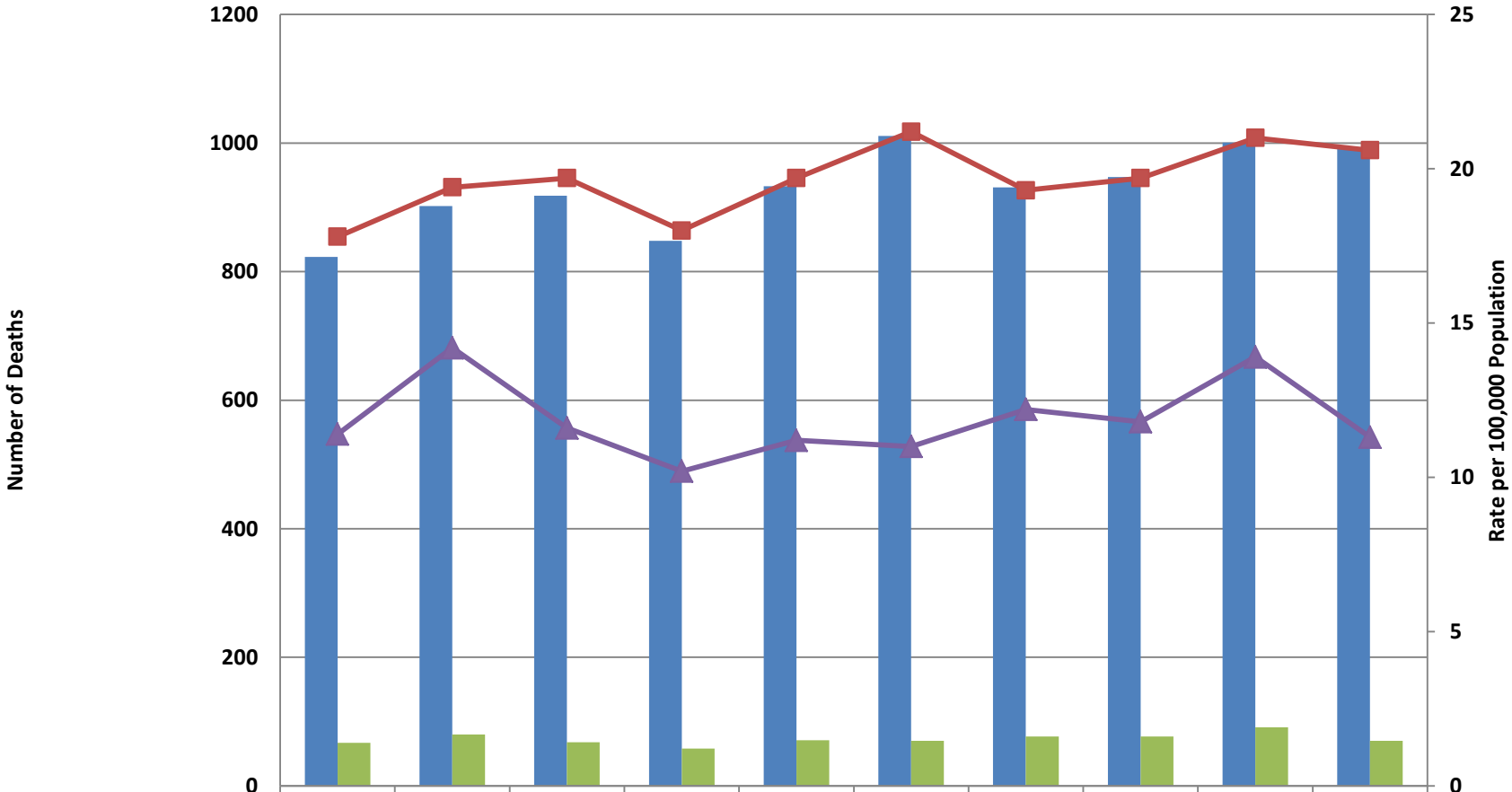
Number and Age Adjusted Rate of Suicide Deaths* by Race and Ethnicity of Ohio Residents, 2000-2009



	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
White,NH	997	1,096	1,148	1,008	1,179	1,232	1,191	1,158	1,256	1,252
Black,NH	83	96	83	83	100	80	93	92	111	92
White,NH Rate	10.1	11.1	11.6	10.2	11.9	12.4	11.9	11.6	12.7	12.6
Black,NH Rate	6.5	7.6	6.4	6.4	7.3	5.9	6.9	6.6	8	6.7

*ODH, Center for Public Health Statistics and Informatics, Vital Statistics, as of 02/03/12

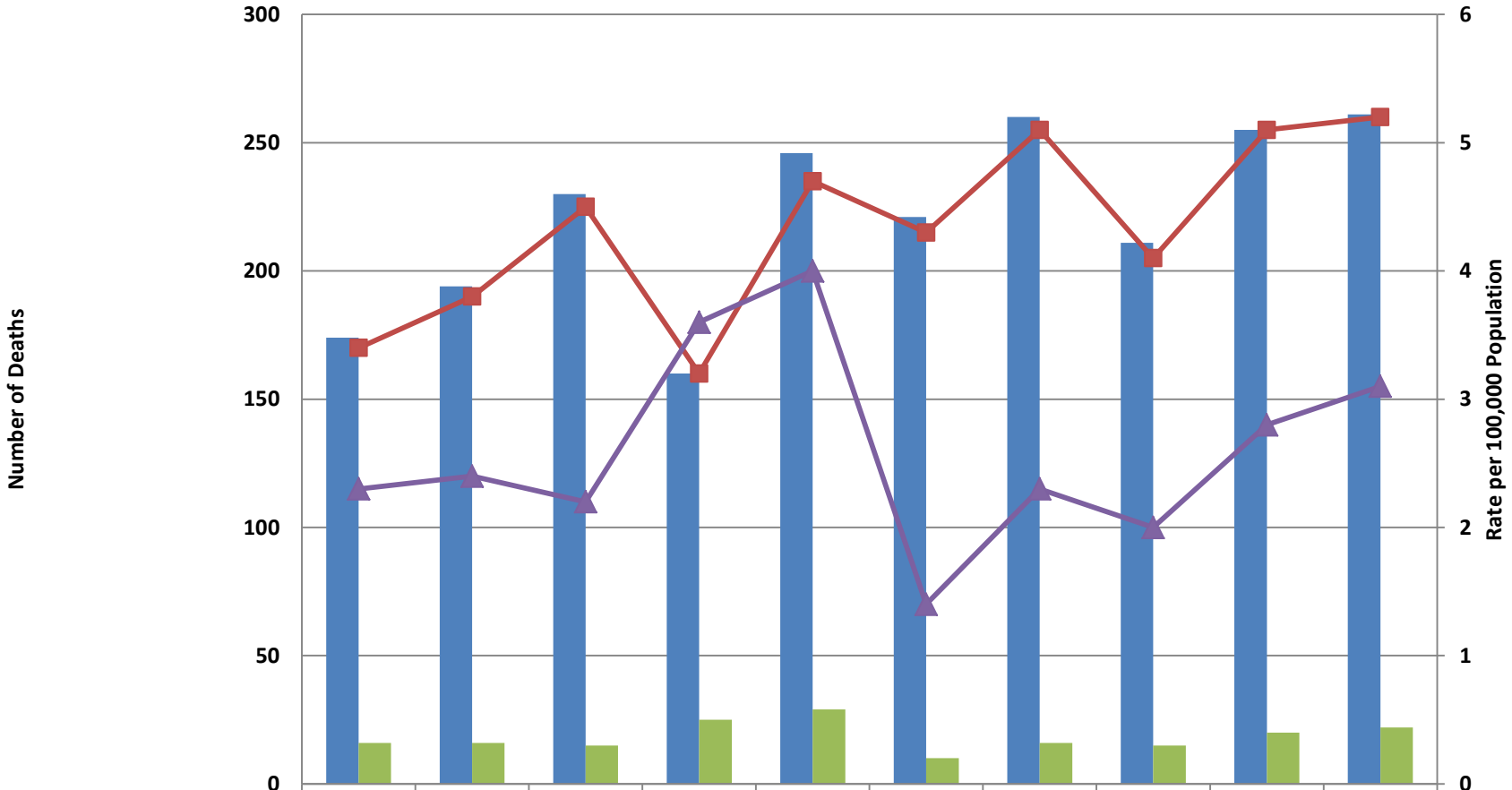
Number and Age Adjusted Rate of Male Suicide Deaths* by Race and Ethnicity of Ohio Residents, 2000-2009



	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
White,NH Males	823	902	918	848	933	1,011	931	947	1,001	991
Black,NH Male	67	80	68	58	71	70	77	77	91	70
White,NH Male Rate	17.8	19.4	19.7	18	19.7	21.2	19.3	19.7	21	20.6
Black,NH Male Rate	11.4	14.2	11.6	10.2	11.2	11	12.2	11.8	13.9	11.3

*ODH, Center for Public Health Statistics and Informatics, Vital Statistics, as of 02/03/12

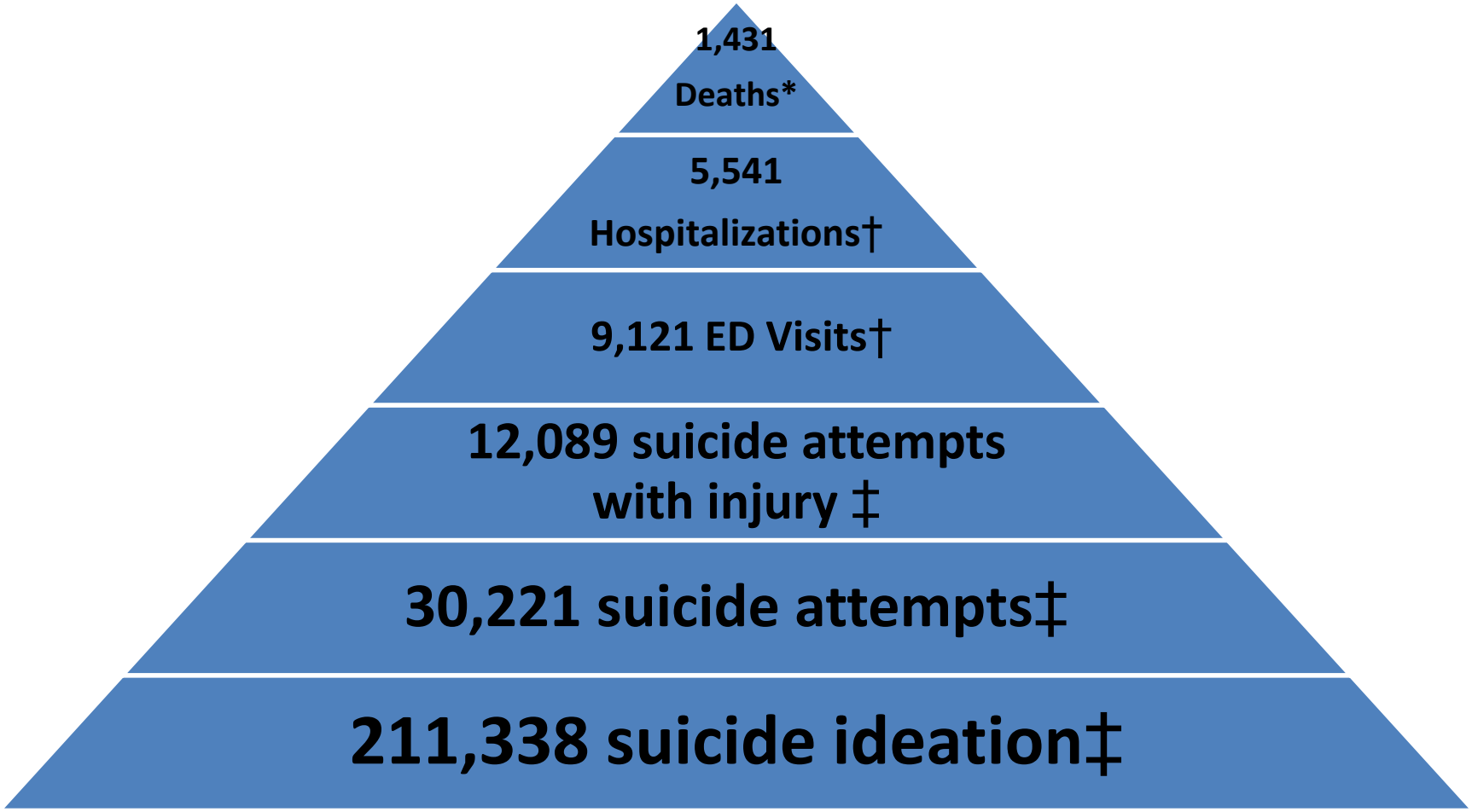
Number and Age Adjusted Rate of Female Suicide Deaths* by Race and Ethnicity of Ohio Residents, 2000-2009



	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
White,NH Females	174	194	230	160	246	221	260	211	255	261
Black,NH Females	16	16	15	25	29	10	16	15	20	22
White,NH Female Rate	3.4	3.8	4.5	3.2	4.7	4.3	5.1	4.1	5.1	5.2
Black,NH Female Rate	2.3	2.4	2.2	3.6	4	1.4	2.3	2	2.8	3.1

*ODH, Center for Public Health Statistics and Informatics, Vital Statistics, as of 02/03/12

Suicide Pyramid in Ohio, 2010



Sources: *Preliminary OH-VDRS data as of 02/02/12,ODH
†Ohio Hospital Association
‡Behavioral Risk Factor Surveillance System (adults only), ODH

Preliminary Classification of Ohio Deaths From OH-VDRS for 2010

Characteristics	No.	(%)
Incident		
Suicide, single	1413	(63.4)
Homicide, single	513	(23.0)
Undetermined	253	(11.4)
Multiple homicide	19	(0.9)
Homicide, followed by suicide	24	(1.1)
Unintentional firearm death	6	(0.3)
Total	2228	(100.0)
Manner of Death		
Homicide/Legal intervention	586	(25.7)
Suicide	1431	(62.7)
Pending	20	(0.9)
Could not be determined	247	(10.8)
Total	2284	(100.0)

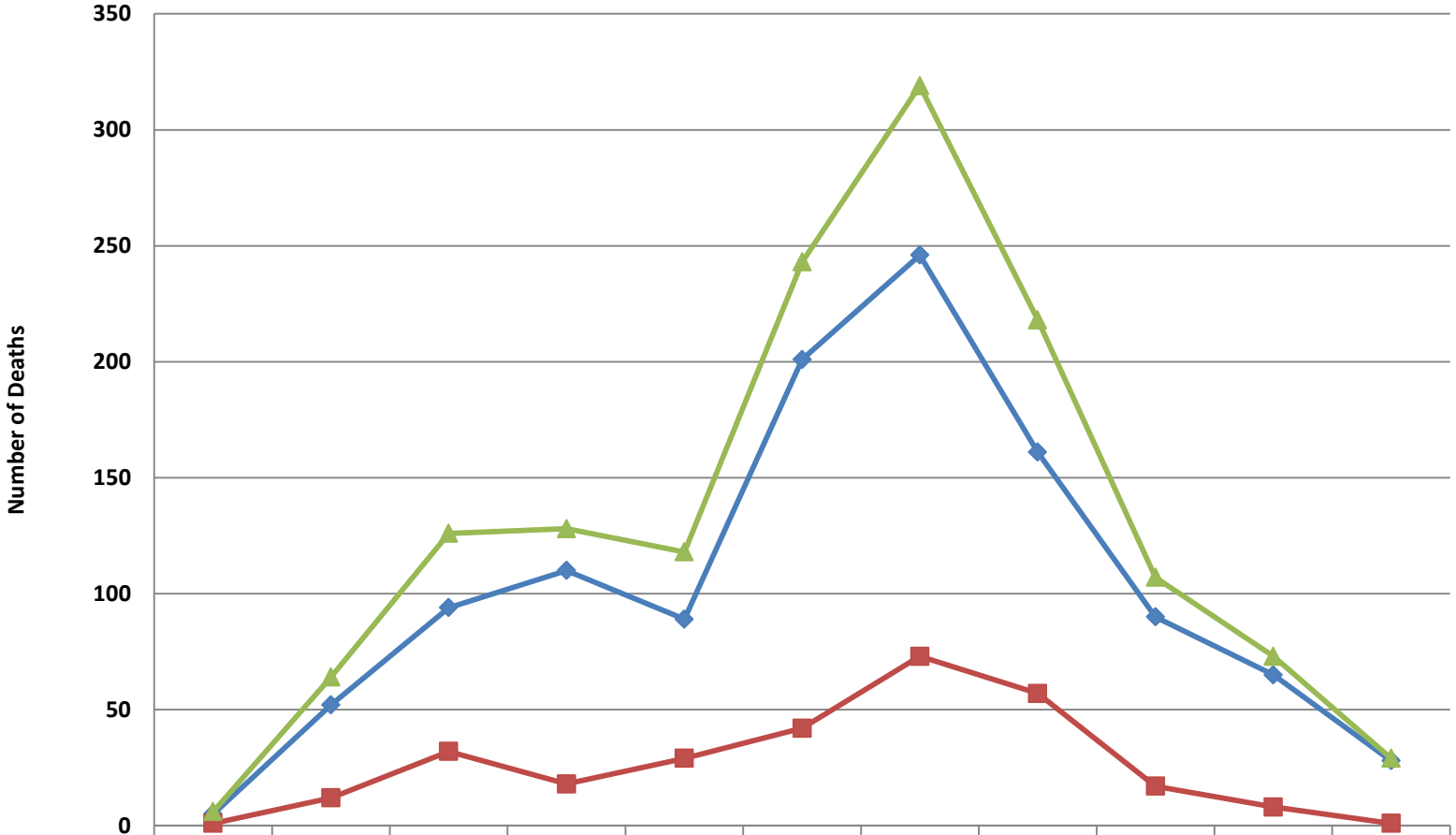
* Preliminary OH-VDRS data as of 02/02/12

Suicide Demographics of Ohio Deaths From OH-VDRS for 2010

Characteristics	Male		Female		Total	
	No.	(%)	No.	(%)	No.	(%)
Age group (yrs)						
10-14	5	(0.4)	1	(0.3)	6	(0.4)
15-19	52	(4.6)	12	(4.1)	64	(4.5)
20-24	94	(8.2)	32	(11.0)	126	(8.8)
25-29	110	(9.6)	18	(6.2)	128	(8.9)
30-34	89	(7.8)	29	(10.0)	118	(8.2)
35-44	201	(17.6)	42	(14.5)	243	(17.0)
45-54	246	(21.6)	73	(25.2)	319	(22.3)
55-64	161	(14.1)	57	(19.7)	218	(15.2)
65-74	90	(7.9)	17	(5.9)	107	(7.5)
74-84	65	(5.7)	8	(2.8)	73	(5.1)
≥85	28	(2.5)	1	(0.3)	29	(2.0)
Total	1141	(100.0)	290	(100.0)	1431	(100.0)
Race/Ethnicity						
White, non-Hispanic	1052	(92.2)	259	(89.3)	1311	(91.6)
Black, non-Hispanic	62	(5.4)	19	(6.6)	81	(5.7)
A/PI	5	(0.4)	5	(1.7)	10	(0.7)
AI/AN	2	(0.2)	0	(0.0)	2	(0.1)
Hispanic	17	(1.5)	5	(1.7)	22	(1.5)
Other	3	(0.3)	2	(0.7)	5	(0.3)
Unknown	0	(0.0)	0	(0.0)	0	0.0
Total	1141	(100.0)	290	(100.0)	1431	(100.0)
Marital status						
Married	403	(35.3)	92	(31.7)	495	(34.6)
Never married	411	(36.0)	96	(33.1)	507	(35.4)
Widowed	61	(5.3)	20	(6.9)	81	(5.7)
Divorced	260	(22.8)	80	(27.6)	340	(23.8)
Married, but separated	2	(0.2)	1	(0.3)	3	(0.2)
Unknown	4	(0.4)	1	(0.3)	5	(0.3)
Total	1141	(100.0)	290	(100.0)	1431	(100.0)

* Preliminary OH-VDRS data as of 02/02/12.

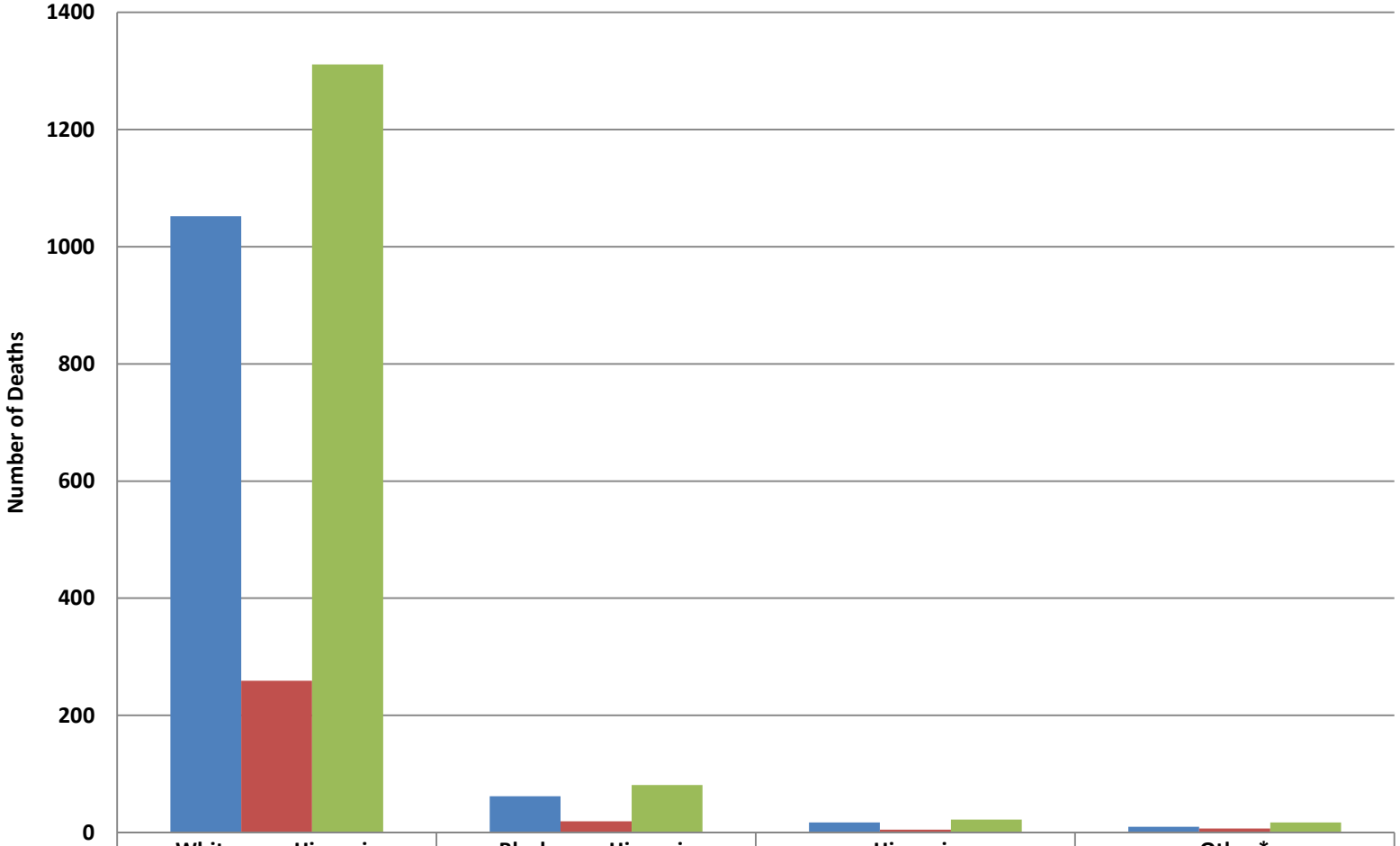
Number of 2010 Suicide Deaths in Ohio from OH-VDRS* by Age and Sex



	10-14	15-19	20-24	25-29	30-34	35-44	45-54	55-64	65-74	74-84	≥85
Male	5	52	94	110	89	201	246	161	90	65	28
Female	1	12	32	18	29	42	73	57	17	8	1
Total	6	64	126	128	118	243	319	218	107	73	29

* Preliminary OH-VDRS data as of 02/02/12

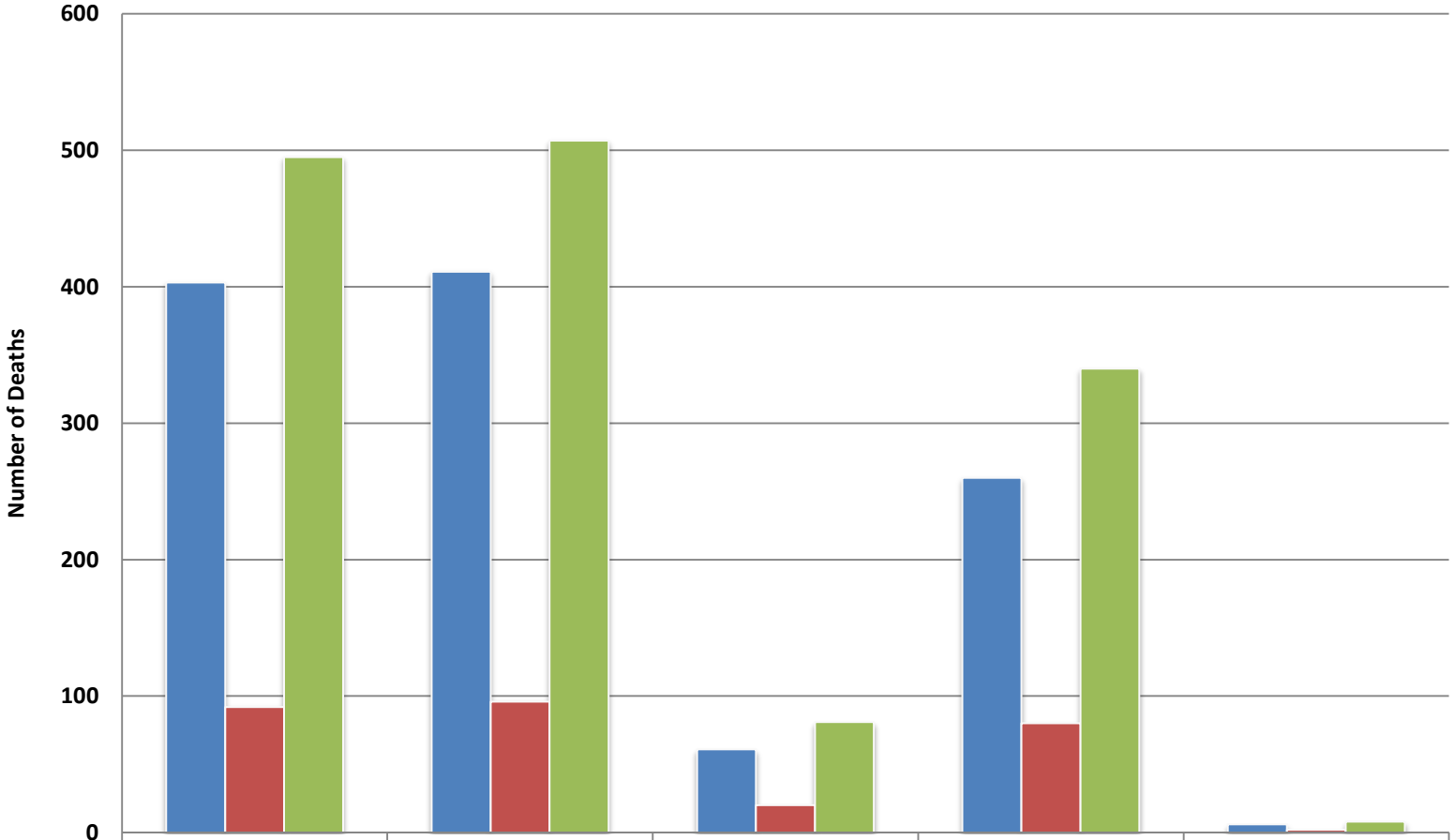
Number of 2010 Suicide Deaths in Ohio from OH-VDRS** by Sex , Race and Ethnicity



	White, non-Hispanic	Black, non-Hispanic	Hispanic	Other*
Male	1052	62	17	10
Female	259	19	5	7
Total	1311	81	22	17

** Preliminary OH-VDRS data as of 02/02/12

Number of 2010 Suicide Deaths in Ohio from OH-VDRS* by Sex and Marital Status



	Married	Never married	Widowed	Divorced	Other*
Male	403	411	61	260	6
Female	92	96	20	80	2
Total	495	507	81	340	8

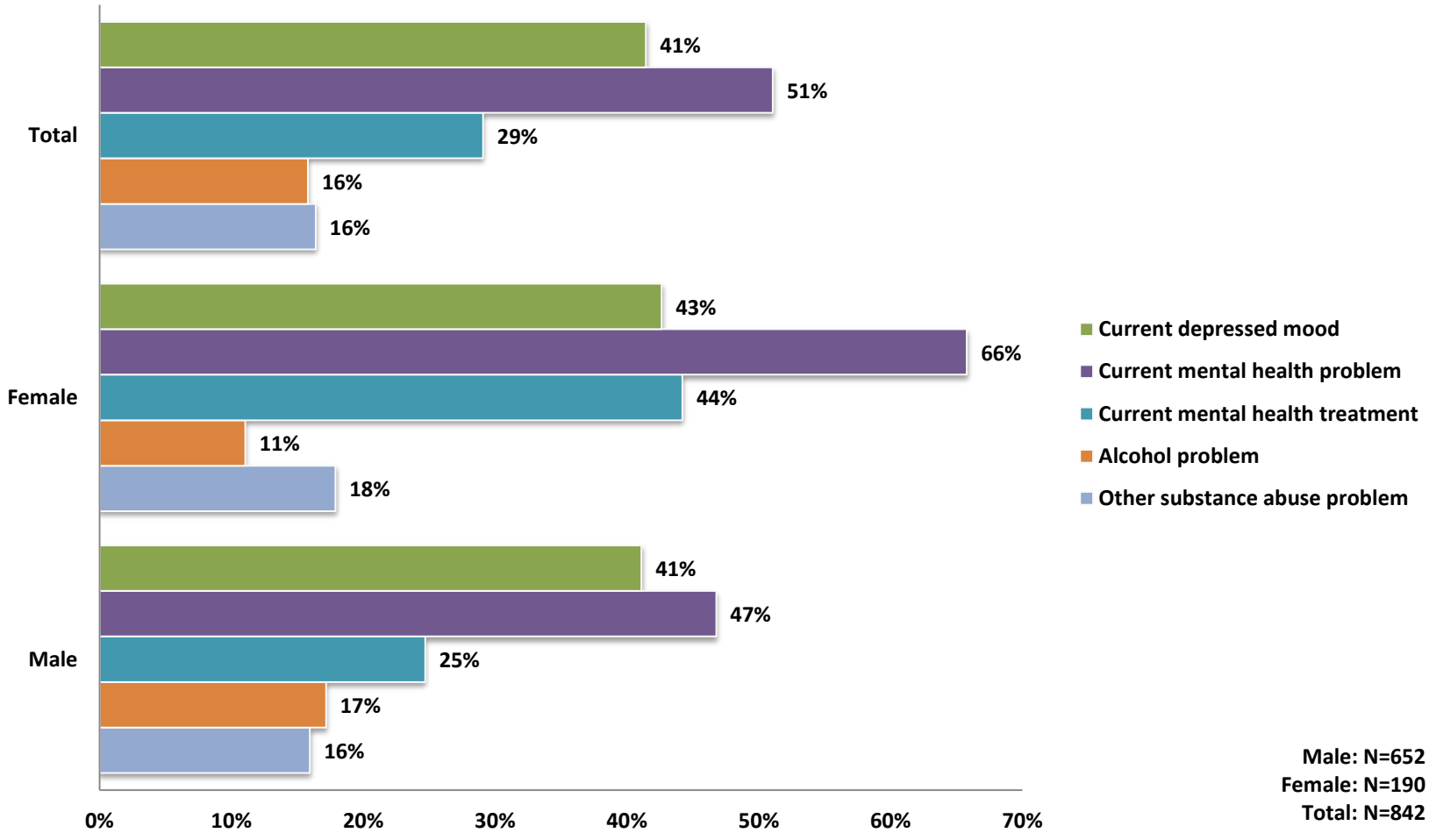
* Preliminary OH-VDRS data as of 02/02/12

Percentage of 2010 Suicide Deaths in Ohio from OH-VDRS* by Associated Circumstances

Associated circumstances	Male		Female		Total	
	No.	(%)	No.	(%)	No.	(%)
Mental health/Substance abuse						
Current depressed mood	268	(41.1)	81	(42.6)	349	(41.4)
Current mental health problem	305	(46.8)	125	(65.8)	430	(51.1)
Current mental health treatment	161	(24.7)	84	(44.2)	245	(29.1)
Alcohol problem	112	(17.2)	21	(11.1)	133	(15.8)
Other substance abuse problem	104	(16.0)	34	(17.9)	138	(16.4)
Interpersonal						
Intimate partner problem	203	(31.1)	47	(24.7)	250	(29.7)
Other relationship problem (non-intimate)	57	(8.7)	22	(11.6)	79	(9.4)
Suicide of family member or friend during preceding 5 years	7	(1.1)	4	(2.1)	11	(1.3)
Other death of family member or friend during preceding 5 years	47	(7.2)	11	(5.8)	58	(6.9)
Perpetrator of interpersonal violence during preceding month	18	(2.8)	3	(1.6)	21	(2.5)
Victim of interpersonal violence during preceding month	1	(0.2)	5	(2.6)	6	(0.7)
Life stressor						
Crisis in past 2 weeks	170	(26.1)	39	(20.5)	209	(24.8)
Physical health problem	101	(15.5)	18	(9.5)	119	(14.1)
Job problem	90	(13.8)	15	(7.9)	105	(12.5)
Recent criminal legal problem	50	(7.7)	6	(3.2)	56	(6.7)
Noncriminal legal problem	49	(7.5)	8	(4.2)	57	(6.8)
Financial problem	75	(11.5)	13	(6.8)	88	(10.5)
School problem	9	(1.4)	1	(0.5)	10	(1.2)
Suicide event						
Left a suicide note	231	(35.4)	75	(39.5)	306	(36.3)
Disclosed intent to commit suicide	201	(30.8)	45	(23.7)	246	(29.2)
History of suicide attempt(s)	114	(17.5)	61	(32.1)	175	(20.8)
	N=652		N=190		N=842	

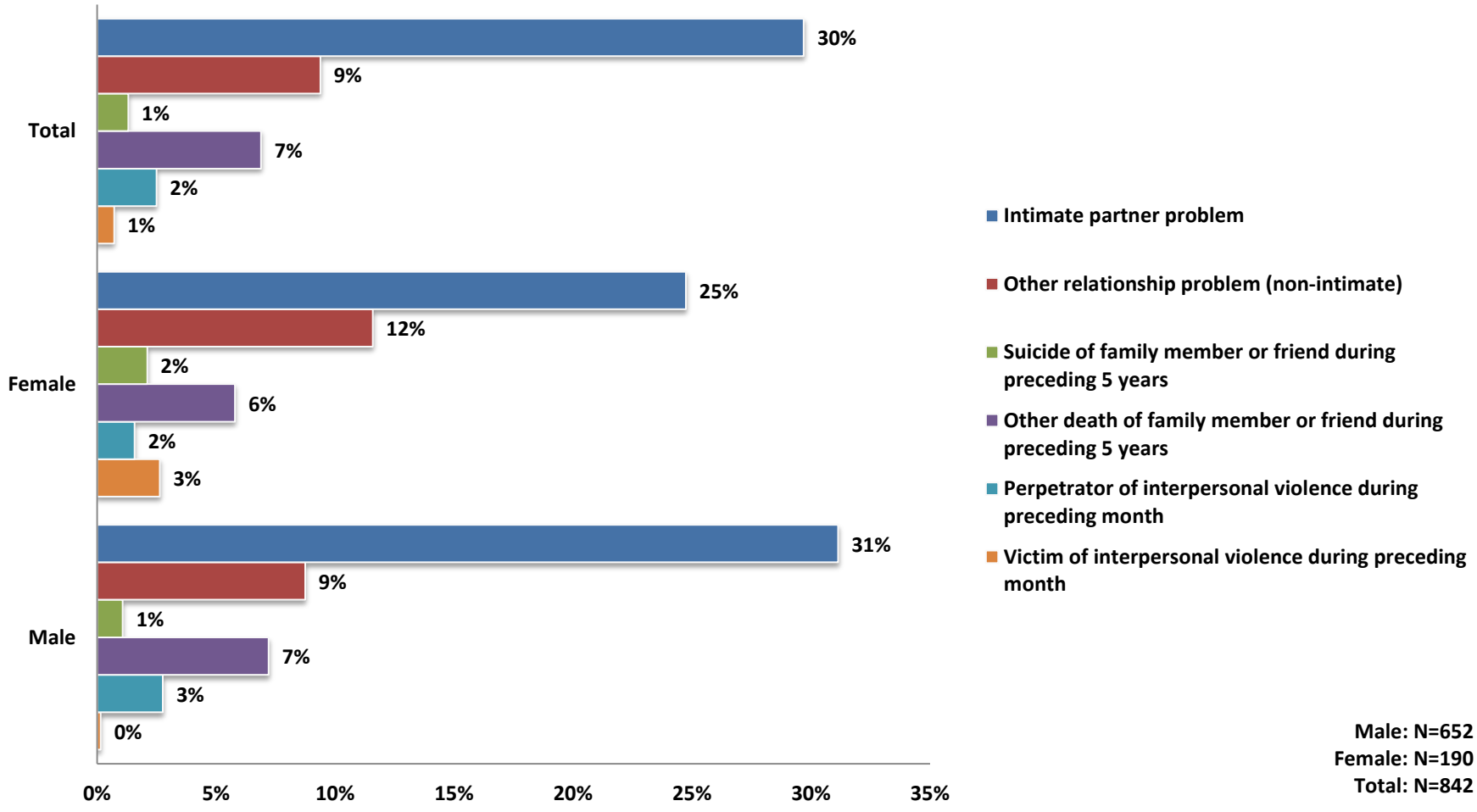
* Preliminary OH-VDRS data as of 02/02/12

Percentage of 2010 Suicide Deaths in Ohio from OH-VDRS* with Mental Health/Substance Abuse Circumstances



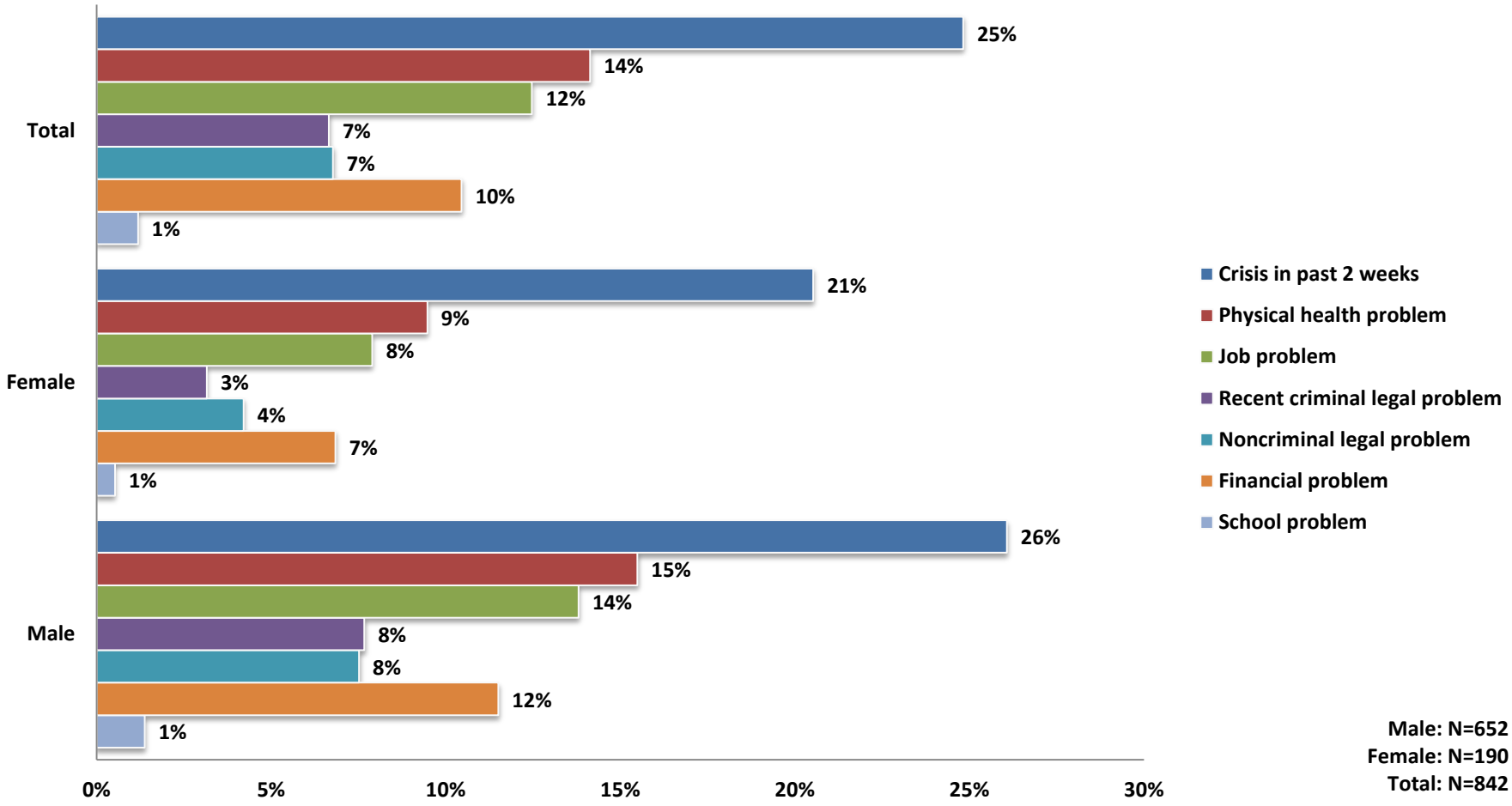
* Preliminary OH-VDRS data as of 02/02/12.

Percentage of 2010 Suicide Deaths in Ohio from OH-VDRS* with Interpersonal Relationship Circumstances



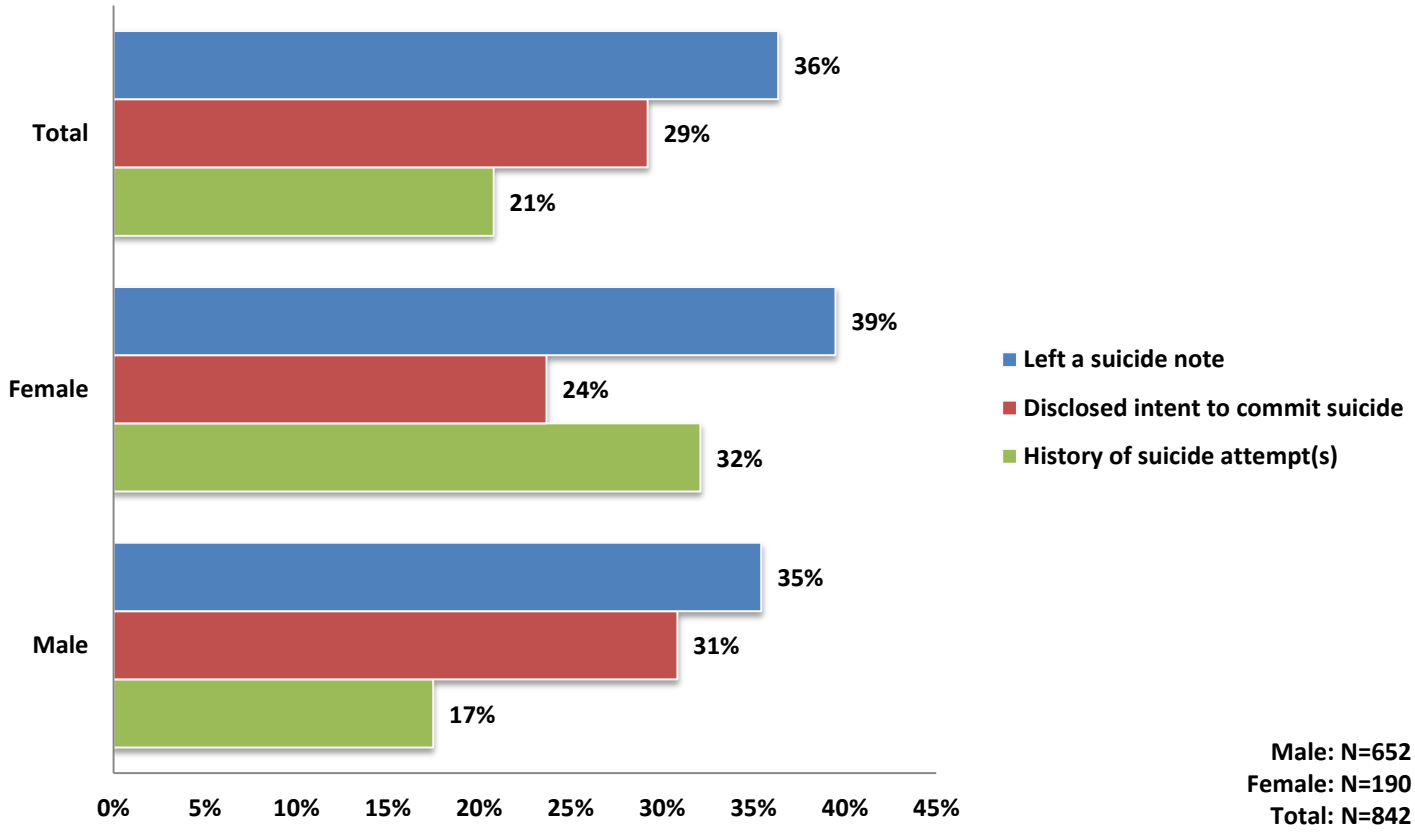
* Preliminary OH-VDRS data as of 02/02/12.

Percentage of 2010 Suicide Deaths in Ohio from OH-VDRS* with Life Stressing Circumstances



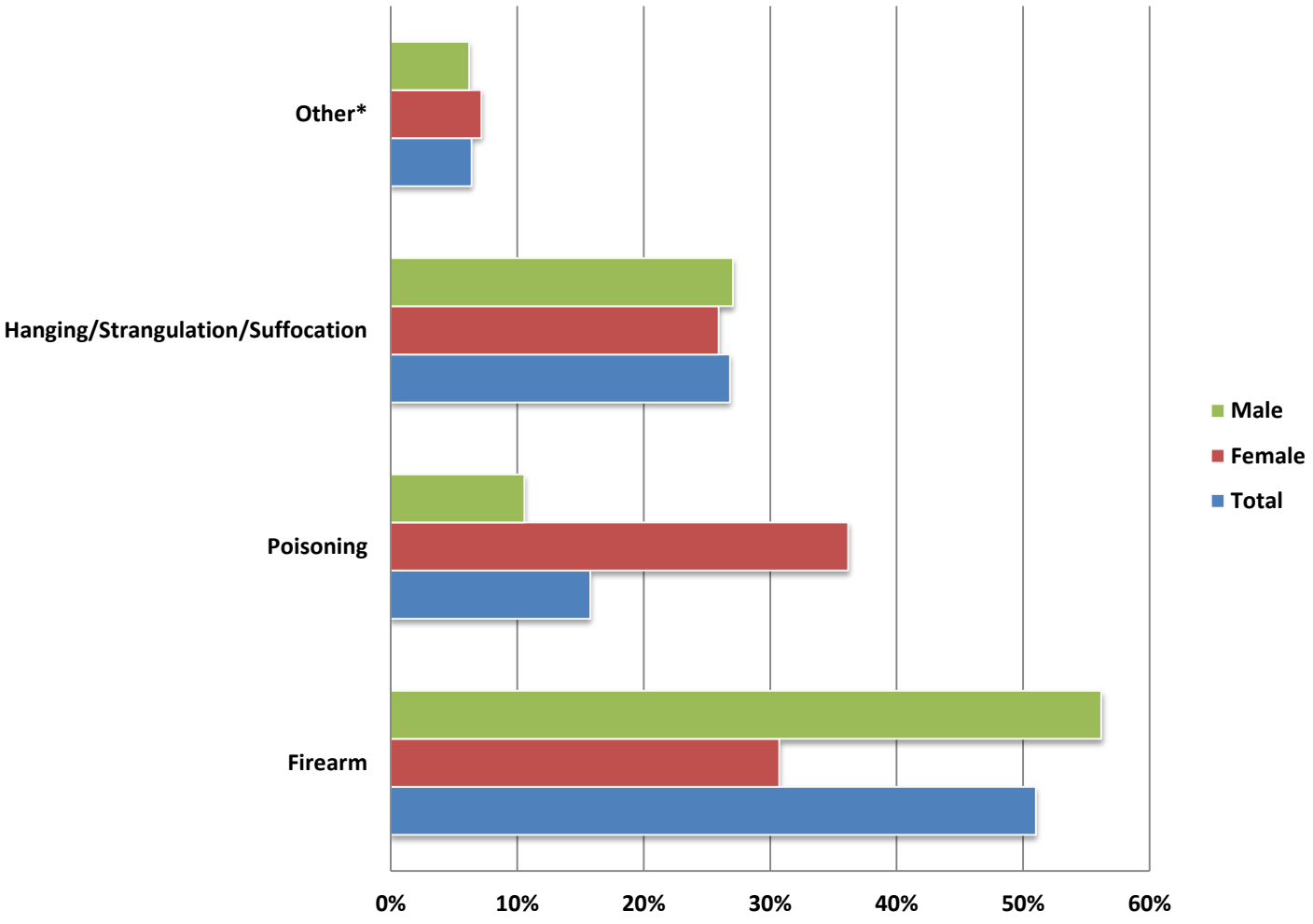
* Preliminary OH-VDRS data as of 02/02/12.

Percentage of 2010 Suicide Deaths in Ohio from OH-VDRS* with Suicidal Event Circumstances



* Preliminary OH-VDRS data as of 02/02/12.

Method of Ohio Suicides from OH-VDRS** for 2010, by Sex



** Preliminary OH-VDRS data as of 02/02/12

Current Usage of NVDRS Data By Other States

- Oregon Draws on NVDRS Data to Create Elder/Youth Suicide Prevention Plans
- Virginia Data Reveals that Veterans are at Risk
- Massachusetts Tracks Children at Risk
- Alaska Tackles Highest Suicide Rate in the Nation
- Colorado Data Finds High Risk for Construction Workers and Arrestees
- South Carolina Integrates Suicide Prevention Plan and Mental Health Care
- Push Towards NVDRS in all 50 states
- For more information, go to www.PreventViolence.net or www.cdc.gov/ViolencePrevention/NVDRS/index.html

Future of OH-VDRS

- Complete Data Cleaning, especially Could Not Be Determined Cases
- Work towards June 2012 CDC deadline for case completion.
- In the state of Ohio, we have about 925 Law enforcement agencies
- Continue working on Second Year data
- Start working on Third Year data

Any Questions?

Data Contacts

Dr. Lisa Mills, Ph.D.
Lisa.Mills@odh.ohio.gov
614-728-0878

Luke Werhan
Luke.Werhan@odh.ohio.gov
614-644-8816