

10 Year Data Overview



VIOLENT DEATH REPORTING SYSTEM
10th
Anniversary
UTAH

Data Quality Analysis

- Evaluate Utah's Performance
 - Are we meeting our goals, objectives, activities?
 - Is the system operating accordingly?
- Determine points for process improvement
- Two Benchmarks
 - Timeliness
 - Completeness

Why is Timeliness Important?

- Early detection of trends
- Evaluation of intervention and prevention efforts
- CDC 2014 Surveillance Strategy
 - Goal 2: Accelerate the utilization of emerging tools and approaches to improve the availability, quality, and timeliness of surveillance

Timeliness Varies

- Death Certificates are often available first, followed closely by Medical Examiner records
 - Cases initiated with DC data
- Law Enforcement records come later
 - Requests not made until 3 months after DOD
 - Data sharing limited across agencies
 - Open cases typically have protocols that limit data sharing

Timeliness Measures

- Cases must be initiated with 180 days of death (6 months)
 - Moving to 120 day (4 months) in 2017
- Cases must be complete within 18 months of the calendar year of death
 - Moving to 16 months in 2017

Timeliness Measures

Data Year	Months to Initiation	% Initiated within 180 days (6 months)	Months to Completion (18 months)
2005	2.4	97%	--
2006	2.6	97%	--
2007	3.0	97%	13
2008	3.1	98%	9
2009	3.0	98%	10
2010	3.7	93%	9
2011	5.2	63%	18
2012	3.5	89%	16
2013	8.8	44%	7
2014	4.6	71%	--
2015	2.0	96%	--

Why is Completeness Important?

- Most comprehensive data possible
- Representative data
- Multiple data sources

Completeness Varies

- Medical Examiner records are easier to obtain
- Although more difficult to obtain, law enforcement records play an important role

Completeness Of Variables

- Demographics are consistently complete
- Opportunity to increase completeness of other variables
 - Circumstances (narratives)
 - Firearms
 - Sexual Orientation

Completeness Requirements

Suicide	
90% or greater	Excellent
80% to 89%	Good
70% to 79%	Fair
Less than 70%	Poor

Homicide	
80% or greater	Excellent
65% to 79%	Good
50% to 65%	Fair
Less than 50%	Poor

Completeness of Suicide Circumstances

Year	ME Circumstances		LE Circumstances	
2005	93%	Excellent	89%	Good
2006	91%	Excellent	88%	Good
2007	93%	Excellent	87%	Good
2008	89%	Good	92%	Excellent
2009	94%	Excellent	93%	Excellent
2010	96%	Excellent	90%	Excellent
2011	96%	Excellent	93%	Excellent
2012	96%	Excellent	91%	Excellent
2013	97%	Excellent	82%	Good
2014	99%	Excellent	15%	N/A
2015	99%	Excellent	.31%	N/A

Completeness of Homicide Circumstances

Year	ME Circumstances		LE Circumstances	
2005	72%	Good	71%	Good
2006	83%	Excellent	79%	Good
2007	77%	Good	80%	Excellent
2008	67%	Good	80%	Excellent
2009	82%	Excellent	83%	Excellent
2010	93%	Excellent	79%	Good
2011	90%	Excellent	82%	Excellent
2012	84%	Excellent	70%	Good
2013	75%	Good	73%	Good
2014	81%	Excellent	3%	N/A
2015	82%	Excellent	3%	N/A

Homicide and Suicide Circumstances by Source

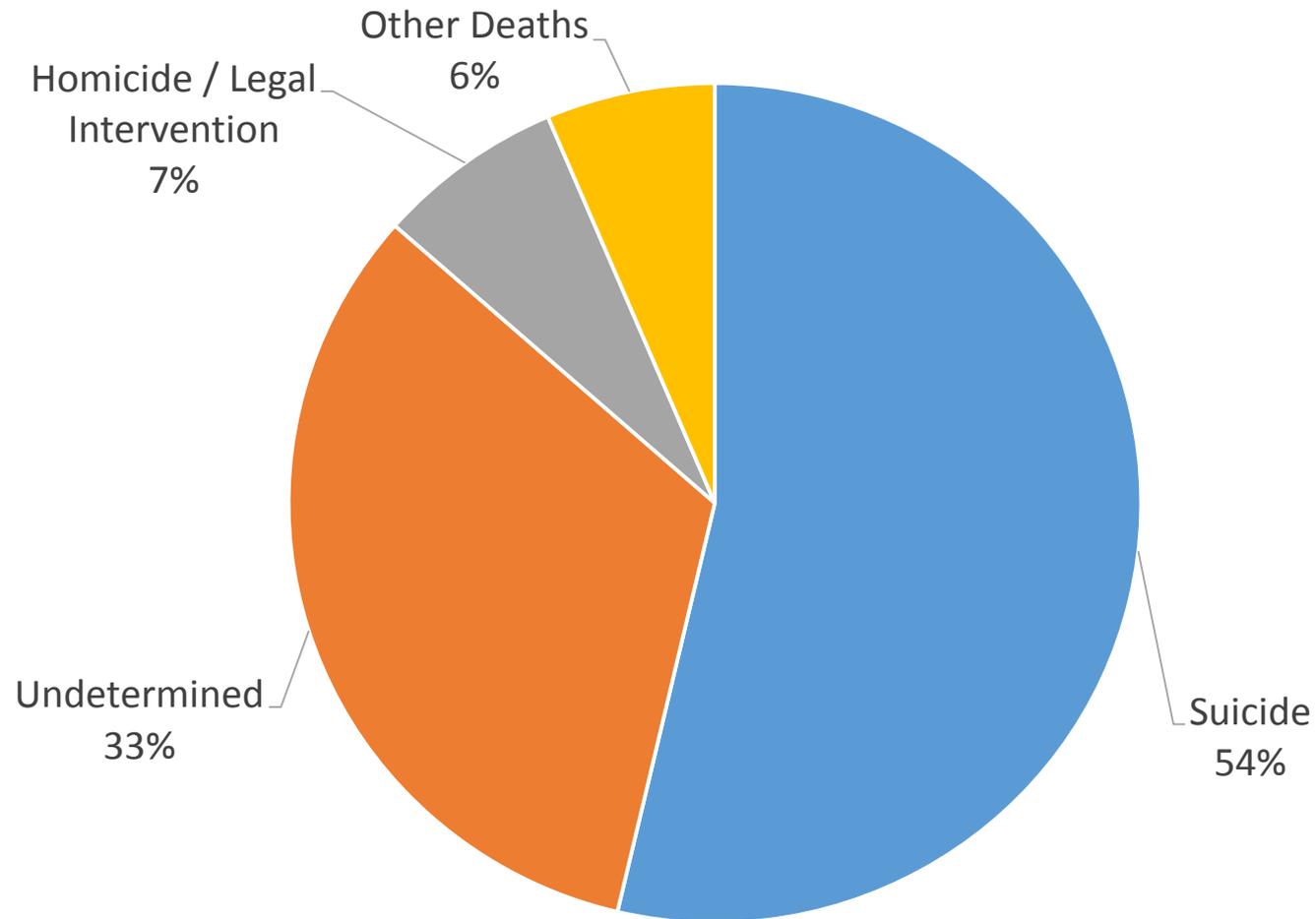
Circumstance	ME	LE
Current Mental Health Problem (Suicide)	43%	26%
Relationship Problem Other (Homicide)	4%	11%

Number of Incidents in System by Type, 2005-2015

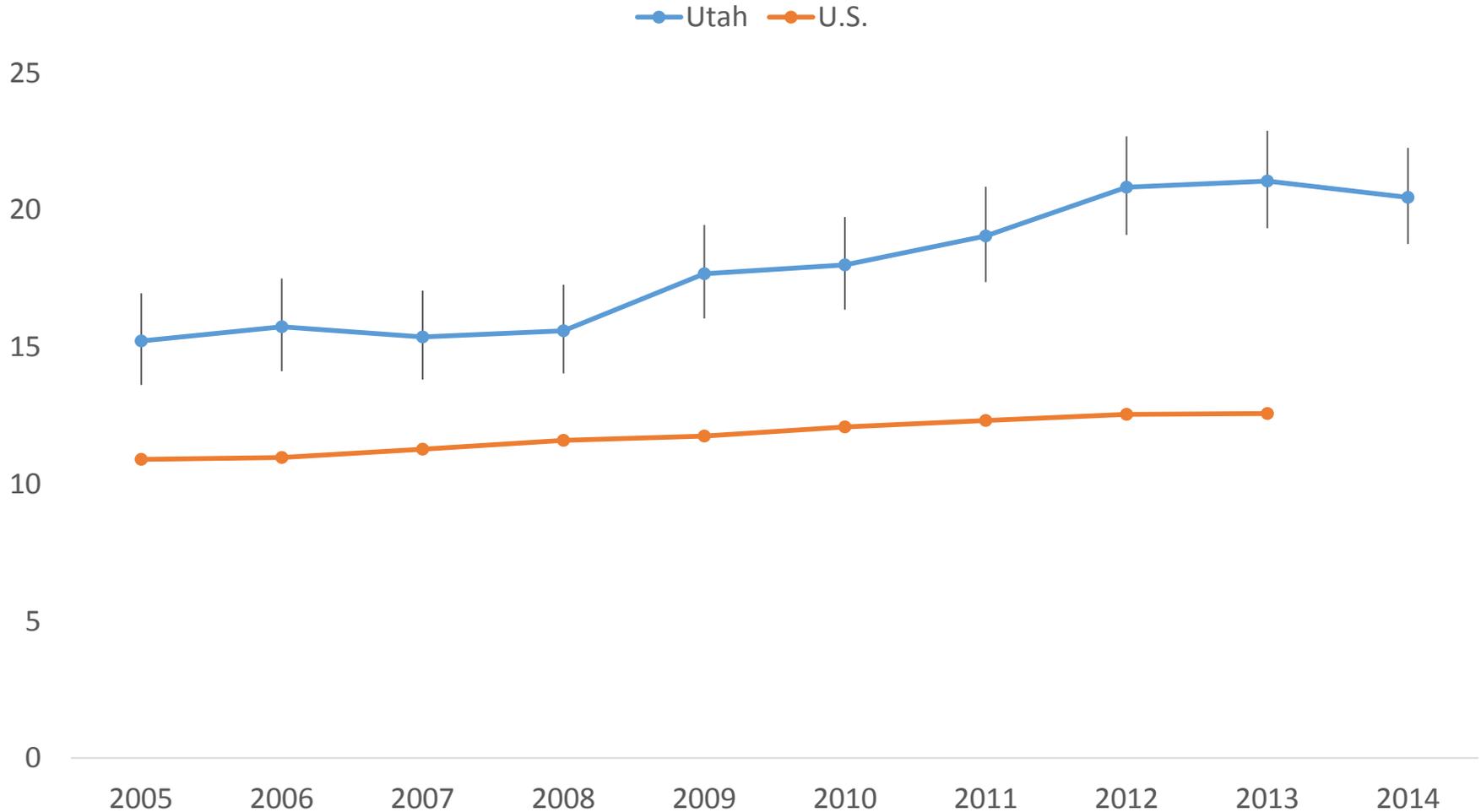
Incident Year	Suicide	Undetermined	Homicide / Legal Intervention
2005	351	383	65
2006	367	422	58
2007	383	444	81
2008	397	335	54
2009	462	297	60
2010	479	220	58
2011	525	266	68
2012	563	234	56
2013	583	217	56
2014*	496	160	58
2015*	319	33	38

*Data preliminary

Percentage of Incidents in System by Manner of Death, 2005-2015

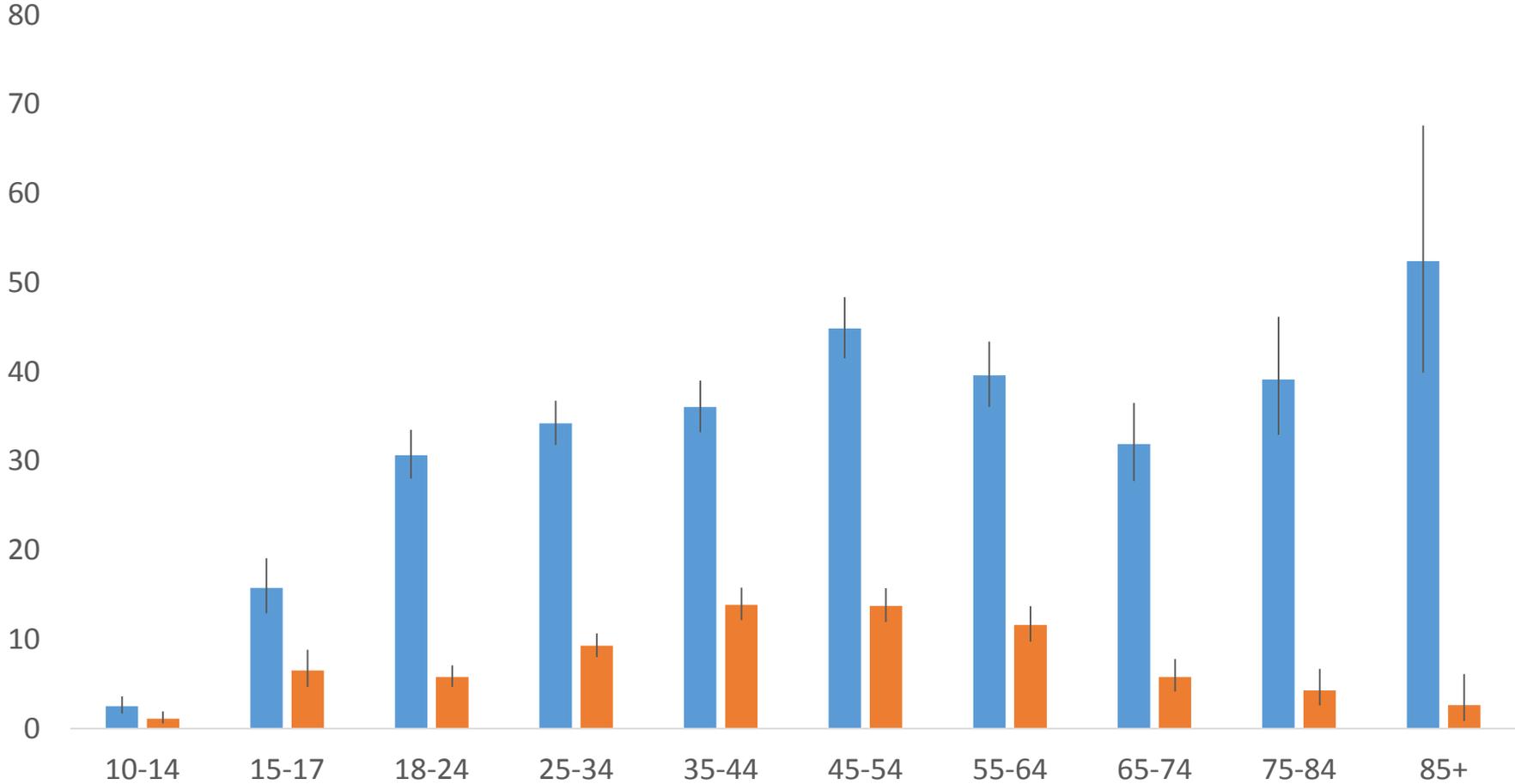


Age-adjusted rate of suicides per 100,000 population by Utah and U.S., 2005-2014

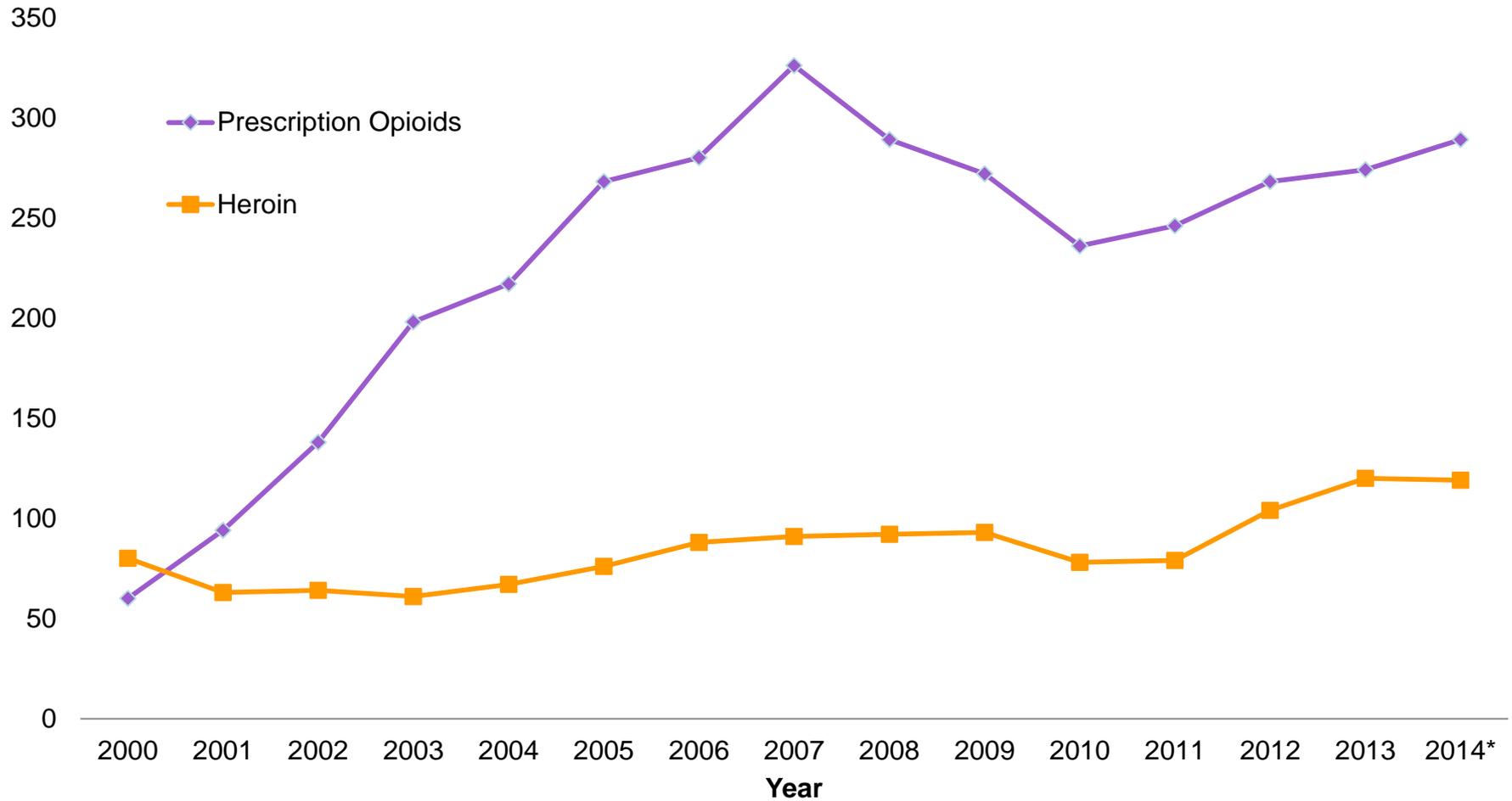


Rate of suicides per 100,000 population by age group and sex, Utah 2005-2014

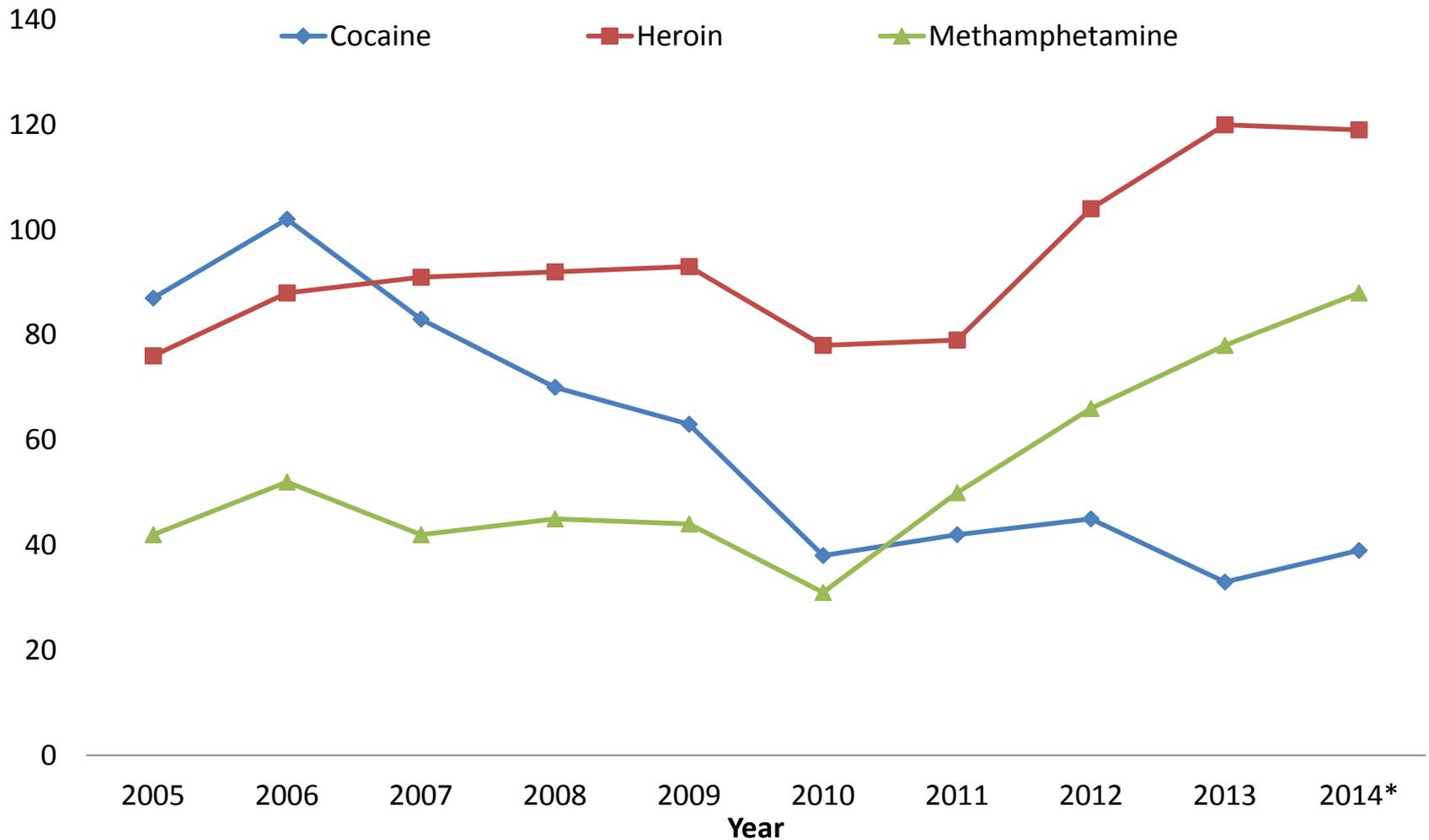
■ Males ■ Females



Number of Unintentional and Undetermined Opioid Deaths by Select Categories, Utah 2000-2014



Unintentional and Undetermined Illicit Drug Overdose Deaths, Utah 2005-2014



Suicide Circumstances

Suicide Specific Circumstances	Percent
History of Suicide Attempts	39.5%
Disclosed Intent	24.2%
Left a Suicide Note	60.1%

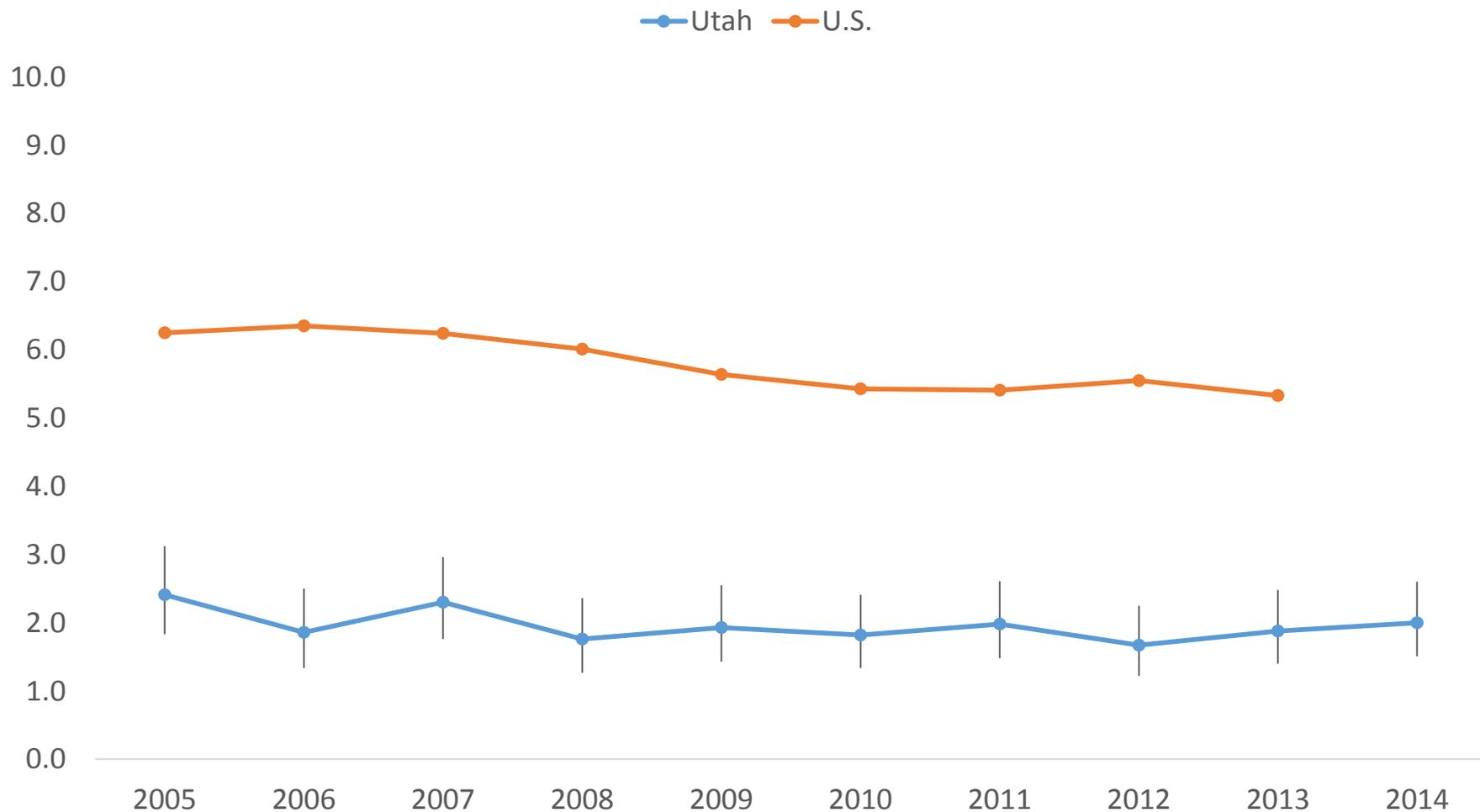
Suicide Circumstances

Mental Health, Substance Abuse, and Other Addictions	Percent
Current Mental Health Problem Suicide Undetermined	50.1% 36.7%
Current Depressed Mood Suicide Undetermined	37.6% 12.3%
Current Mental Health/Substance Abuse Treatment Suicide Undetermined	35.5% 45.8%
Alcohol Problem Suicide Undetermined	16.6% 18.4%
Other Substance Abuse Problem Suicide Undetermined	20.9% 70.1%

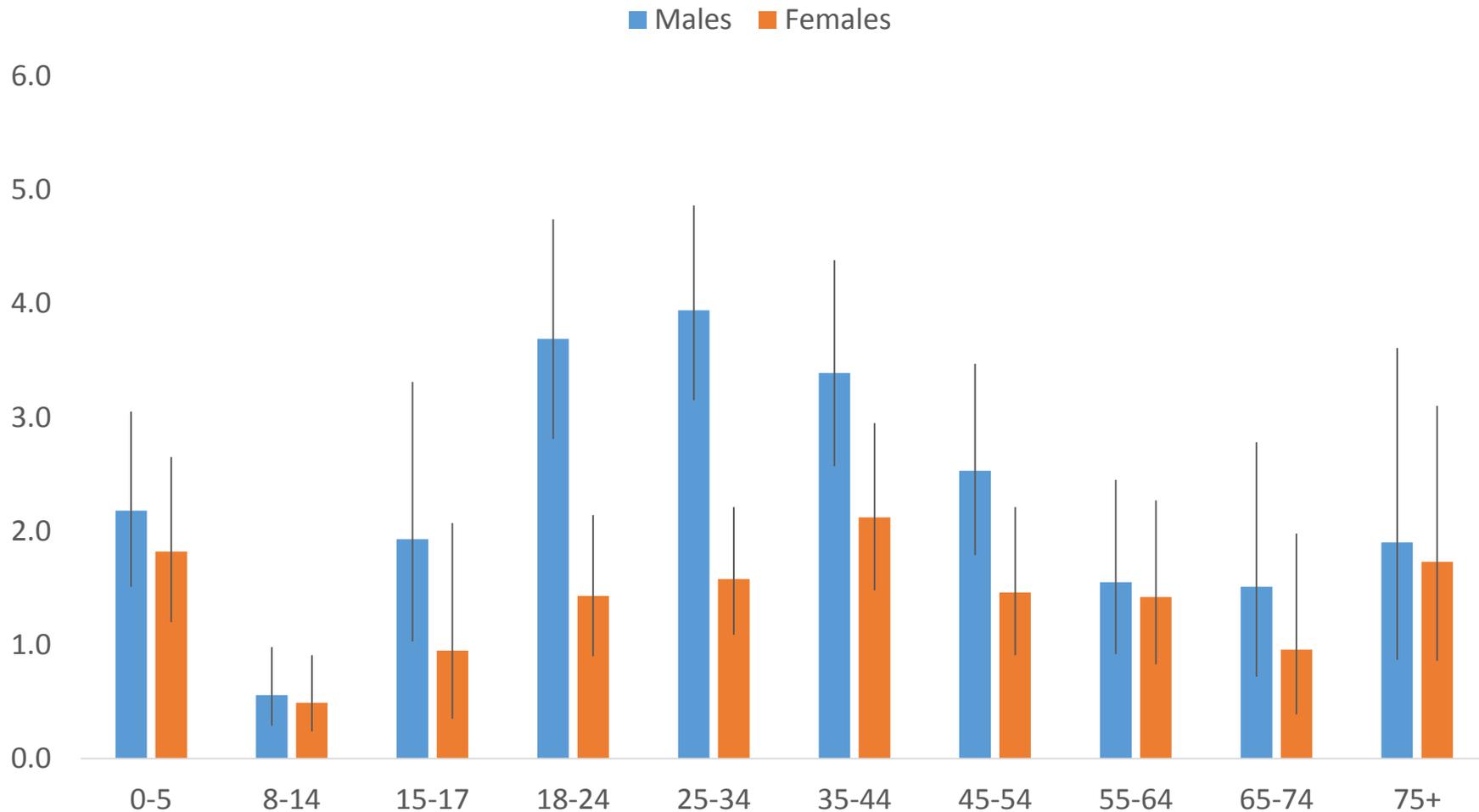
Suicide Circumstances

Relationship and Life Stressors	Percent
Intimate Partner Problem Suicide Undetermined	40.5% 13.1%
Other Relationship Problem Suicide Undetermined	15.1% 6.6%
Job Problem Suicide Undetermined	14.9% 5.2%
Financial Problem Suicide Undetermined	8.4% 2.4%
Physical Health Problem Suicide Undetermined	23.6% 51.2%

Age-adjusted rate of homicides per 100,000 population by Utah and U.S., 2005-2014



Rate of homicides per 100,000 population by age group and sex, Utah 2005-2014



Homicides

- Law enforcement and Supplemental Homicide reports provide information on suspects
 - 11.4% are Homicide/Suicides
 - 82.4% have one suspect
 - 46 homicides had multiple victims (7%)

Homicide Suspects

Suspect Information	Percent
Males	80.3%
Females	12.2%

Victim's relationship to Suspect	Percent
Law Enforcement	15.5%
Other person, known to victim	11.6%
Intimate Partner (Spouse, boyfriend, girlfriend)	13.1%
Stranger	9.8%
Child	10.7%

Homicide Circumstances

Suicide Specific Circumstances	Percent
Justifiable Self Defense	15.5%
Intimate Partner Violence	24.0%
Drug Involvement	10.0%

Query Systems

- [NVDRS WISQARS](#)
- [UTVDRS IBIS](#)

Data To Action

- Discussion
 - Opportunities to disseminate data
 - Topic-specific
 - Annual Reports
 - Fact Sheets
- How will this inform prevention and intervention efforts?