



## Number of Opioid<sup>1</sup>-Related Overdose Deaths, All Intent by County, MA Residents: 2000-2016<sup>2</sup>

Massachusetts Department of Public Health

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County <sup>3</sup>	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Total 2000-2016
Barnstable	12	19	21	15	17	20	24	31	22	21	20	19	24	43	53	70	80	511
Berkshire	2	3	1	2	6	9	1	8	3	8	4	9	18	22	29	32	38	195
Bristol	38	58	66	84	72	78	85	64	84	70	79	82	95	116	145	171	247	1,634
Dukes	1	0	1	0	1	2	0	3	1	2	0	0	0	1	5	7	3	27
Essex	51	65	55	81	68	80	87	89	65	74	51	57	94	119	207	241	280	1,764
Franklin	5	2	1	5	3	4	6	4	2	2	6	6	8	10	10	18	15	107
Hampden	32	37	42	46	32	36	46	38	48	46	48	45	59	69	63	99	131	917
Hampshire	5	5	5	12	8	3	10	14	11	10	12	10	11	30	26	16	36	224
Middlesex	64	86	92	115	105	122	118	110	112	124	94	130	122	155	271	346	412	2,578
Nantucket	0	1	0	0	0	0	0	1	0	1	1	0	0	1	1	1	2	9
Norfolk	29	42	44	43	40	53	49	54	73	65	60	64	71	83	126	165	214	1,275
Plymouth	23	25	29	47	28	38	49	52	48	53	41	67	57	86	109	173	191	1,116
Suffolk	49	87	98	106	83	66	107	103	74	95	64	85	91	111	144	205	246	1,814
Worcester	68	75	71	58	51	63	74	71	78	67	80	82	91	115	162	224	260	1,690
<b>TOTAL DEATHS<sup>4</sup></b>	<b>379</b>	<b>506</b>	<b>526</b>	<b>614</b>	<b>514</b>	<b>575</b>	<b>660</b>	<b>642</b>	<b>622</b>	<b>638</b>	<b>560</b>	<b>656</b>	<b>742</b>	<b>961</b>	<b>1,352</b>	<b>1,768</b>	<b>2,155</b>	<b>13,870</b>

<sup>1</sup> Opioids include heroin, opioid-based prescription painkillers, and other unspecified opioids.

<sup>2</sup> Data for 2015-2016 deaths are preliminary and subject to updates. Case reviews of deaths are evaluated and updated on an ongoing basis. A large number of death certificates have yet to be assigned final cause-of-death codes. 2015-2016 counts are based on the estimates rather than confirmed cases. Data updated on 1/25/2018.

<sup>3</sup> Numbers and calculations based on values less than 5 are suppressed for years in which the death file is not yet closed if they are based on pending cases.

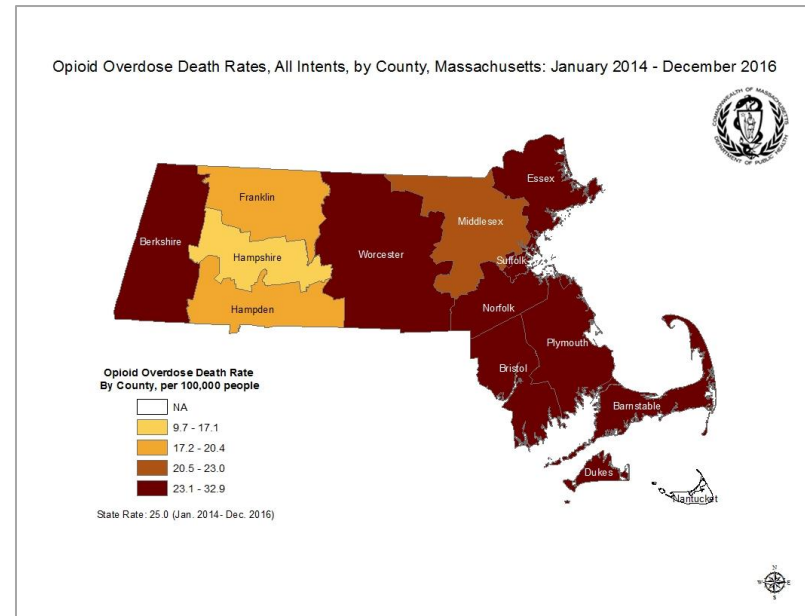
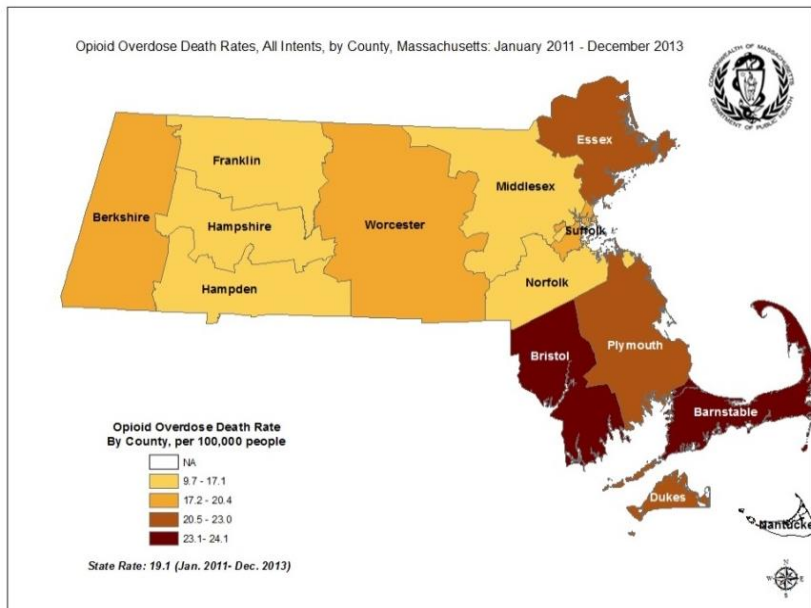
<sup>4</sup> Please note that some totals may not add up due to deaths with unknown city/town of residence and the rounding of counts for 2015-2016.

**Technical Notes:**

Cases were defined using the International Classification of Disease (ICD-10) codes for mortality. The following codes were selected from the underlying cause of death field to identify poisonings/overdoses: X40-X49, X60-X69, X85-X90, Y10-Y19, and Y35.2. All multiple cause of death fields were then used to identify an opioid-related death: T40.0, T40.1, T40.2, T40.3, T40.4, and T40.6. This report tracks all opioid-related overdoses due to difficulties in reporting heroin-associated overdoses separately. Many deaths related to heroin are not specifically coded as such due to the fast metabolism of heroin into morphine. To maintain consistency with NCHS reporting, DPH does not include the ICD-10 code F11.1, which may include opioid-related overdose death. Beginning with the May 2017 report, DPH started reporting opioid-related deaths for all intents, which includes unintentional/undetermined and suicide.

**Source: Registry of Vital Records and Statistics, MDPH.**

## Opioid Overdose Death Rates, All Intents, by County Massachusetts: January 2011- December 2013 (reference time period) vs. January 2014 - December 2016 (current time period)



**Notes:**

1. All data updated on 1/25/18. Cases were defined using the International Classification of Disease (ICD-10) codes for mortality using the following codes in the underlying cause of death field: X40-X49, X60-X69, X85-X90, Y10-Y19, Y35.2. All multiple cause of death fields were then used to identify an opioid-related death, using the following ICD-10 codes: T40.0, T40.1, T40.2, T40.3, T40.4, and T40.6. Opioids include heroin, opioid-based prescription painkillers, and other unspecified opioids.
3. Please note that 2015-2016 death data are preliminary and subject to updates.
4. Rates computed for smaller counties (populations <10,000) are likely to vary significantly from year to year.
5. Low rates of opioid overdose deaths in a county should not be taken as an indication that there is no opioid abuse problem in that community.
6. County level opioid overdose death rates are computed by averaging the number of opioid-related deaths between January 2011 and December 2016 by the estimated population in the community in that same time period. County is based on county of residence for the decedent.
7. The rate is expressed as a value per 100,000 residents.
8. Beginning with the May 2017 report, DPH started reporting opioid-related deaths for all intents, which includes unintentional/undetermined and suicide