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Appendix A: Glossary of Terms

HIA Glossary¹

Assessment

In relation to HIA, assessment provides a profile of existing health conditions of people and groups affected by a proposed change and estimates the potential health effects if the change were to occur.

Best available evidence

Conclusive evidence of the links between, for example, socio-environmental factors and health or the effectiveness of interventions, is not always available. In such cases, the best available evidence, that which is judged to be most reliable and compelling, can be used but with caution.

Community participation

Involving the community in an activity such as the planning of projects or carrying out a HIA. There are a number of models of community participation, some of which are outlined in the Gothenburg consensus paper on HIA (WHO, 1999). Levels of participation vary (Arnstein, 1969).

Determinants of health

Determinants of health are factors which influence health status and determine health differentials or health inequalities. They include biological factors (e.g. age, gender and ethnicity), behavior and lifestyles (e.g. smoking, alcohol consumption, diet and physical activity), physical and social environment (e.g. housing quality, workplace stressors, and air pollution), and access to health care (Lalonde, 1974; Labonete, 1993).

Disadvantaged / vulnerable / marginalized groups

These terms are applied to groups of people who, due to factors usually considered outside their control, do not have the same opportunities as other, more fortunate groups in society. Examples might include unemployed people, households without access to a personal vehicle, and those who may be more susceptible to disease due to their age.

Evidence base

The evidence base refers to a body of information, drawn from routine statistical analyses, published studies, and "grey" literature, that tells us something about what is already known about factors affecting health. For example, in the field of housing and health, there are a number of studies that demonstrate the links between damp and cold housing and respiratory disease and, increasingly, the links between high quality housing and quality of life (Thomson et al., 2001).

Health impact

A health impact can be positive or negative. A positive health impact is an effect which contributes to good health or to improving health. For example, having a sense of control over one's life and having choices is known to have a beneficial effect on mental health and well-being, making people feel "healthier" (Wilkinson, 1996). A negative health

¹ Modified from the UCLA Health Impact Assessment Clearinghouse: http://www.ph.ucla.edu/hs/health-impact/

impact has the opposite effect, causing or contributing to ill health. For example, working in unhygienic or unsafe conditions or spending a lot of time in an area with poor air quality is likely to have an adverse effect on physical health status.

Health impact assessment

Health impact assessment (HIA) is often defined as "A systematic process that uses an array of data sources and analytic methods and considers input from stakeholders to determine the potential effects of a proposed policy, plan, program or project on the health of a population and the distribution of those effects within the population. HIA provides recommendations on monitoring and managing those effects." (National Research Council of the National Academies, 2011).

Indicator

A health indicator is a characteristic of an individual, population, or environment which is subject to measurement (directly or indirectly) and can be used to describe one or more aspects of the health of an individual or population (quality, quantity and time).

Outcomes

The effect the process has had on the people targeted by it. These might include, for example, changes in their self-perceived health status or changes in the distribution of health determinants, or factors which are known to affect their health, well-being and quality of life.

Population (Affected population)

Groups of individuals defined by locality, biological criteria (e.g. age, gender, health condition, or common exposure), or social criteria (e.g. socio-economic status or cultural affiliation). How a population is defined in an HIA will depend on the proposed project/policy being considered, health issues of most concern, the extent and classification of existing evidence on those health issues, and what information is of most value to the policy-making process.

Project

A project is usually a discrete piece of work addressing a single population group or health determinant, usually with a pre-set time limit. Usually (but not always), the term refers to "bricks and mortar" projects involving construction of a discrete structure or group of structures, such as a power plant, highway, or housing development.

Recommendations

Practical solutions and strategies to manage identified adverse health impacts and maximize benefits to health that can be implemented within the political, economic, or technical limitations of the proposed change.

Reporting

In reference to the HIA, preparing the HIA report and sharing the findings with decision makers, affected communities, and other stakeholders.

Qualitative and quantitative

HIA tries to balance qualitative and quantitative evidence. It involves an evaluation of the quantitative, "scientific" evidence when it exists but also recognizes the importance of

more qualitative information. This may include the opinions, experience and expectations of those people most directly affected by public policies. HIA tries to balance the various types of evidence (Barnes and Scott-Samuel, 1999). Generally speaking, quantitative evidence is based on what can be counted or measured objectively whilst qualitative evidence cannot be measured in the usual ways and may be more subjective. People's perceptions, opinions and views are considered examples of qualitative information.

Scoping

Creating objectives for the HIA, in consultation with stakeholders, and outlining the process to identify potential health risks and benefits.

Screening

In relation to HIA, screening usually refers to an initial step being taken in order to determine whether a policy, program or project should be subject to a HIA. It is a step to understand whether the HIA is likely to add value and influence decision-making.

HIA Glossary References

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Appendix B: Health Data

Pediatric Asthma Prevalence per 100 Students for Males and Females Combined for School Years 2009-2010 to 2016-2017 by Community

Braintree						
School Year	Student Case Count	Student Enrollment Count	Prevalence	95% Confidence Interval	Statistical Significance	Stability
2009-2010	498	4,143	12.0	11.0 - 13.1	Not statistically significantly different	
2010-2011	477	4,200	11.4	10.3 - 12.4	Not statistically significantly different	
2011-2012	499	4,204	11.9	10.8 - 12.9	Not statistically significantly different	
2012-2013	466	4,250	11.0	10.0 - 12.0	Statistically significantly lower	
2013-2014	492	4,294	11.5	10.4 - 12.5	Not statistically significantly different	
2014-2015	463	4,250	10.9	9.9 - 11.9	Statistically significantly lower	
2015-2016	521	4,291	12.1	11.1 - 13.2	Not statistically significantly different	
2016-2017	528	4,277	12.3	11.3 - 13.4	Not statistically significantly different	
Braintree - Annual Average	493	4,239	11.6	11.3 - 12.0	Statistically significantly lower	

Hingham									
School Year	Student Case Count	Student Enrollment Count	Prevalence	95% Confidence Interval	Statistical Significance	Stability			
2009-2010	276	2,873	9.6	8.5 - 10.7	Statistically significantly lower				
2010-2011	307	3,231	9.5	8.4 - 10.6	Statistically significantly lower				
2011-2012	316	3,277	9.6	8.6 - 10.7	Statistically significantly lower				
2012-2013	316	3,287	9.6	8.6 - 10.7	Statistically significantly lower				
2013-2014	325	3,120	10.4	9.3 - 11.5	Statistically significantly lower				
2014-2015	244	3,303	7.4	6.5 - 8.3	Statistically significantly lower				
2015-2016	337	3,337	10.1	9.0 - 11.2	Statistically significantly lower				
2016-2017	313	3,385	9.2	8.2 - 10.3	Statistically significantly lower				
Hingham - Annual Average	304	3,227	9.4	9.1 - 9.8	Statistically significantly lower				

Quincy						
School Year	Student Case Count	Student Enrollment Count	Prevalence	95% Confidence Interval	Statistical Significance	Stability
2009-2010	735	6,740	10.9	10.1 - 11.7	Not statistically significantly different	
2010-2011	726	6,890	10.5	9.8 - 11.3	Statistically significantly lower	
2011-2012	814	6,977	11.7	10.9 - 12.5	Not statistically significantly different	
2012-2013	748	7,040	10.6	9.9 - 11.4	Statistically significantly lower	
2013-2014	745	7,167	10.4	9.6 - 11.1	Statistically significantly lower	
2014-2015	804	7,112	11.3	10.5 - 12.1	Statistically significantly lower	
2015-2016	730	6,988	10.4	9.7 - 11.2	Statistically significantly lower	
2016-2017	584	7,069	8.3	7.6 - 8.9	Statistically significantly lower	

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Weymouth						
School Year	Student Case Count	Student Enrollment Count	Prevalence (%)	95% Confidence Interval	Statistical Significance	Stability
2009-2010	643	5,333	12.1	11.1 - 13.0	Not statistically significantly different	
2010-2011	704	5,383	13.1	12.1 - 14.0	Statistically significantly higher	
2011-2012	752	5,372	14.0	13.0 - 15.0	Statistically significantly higher	
2012-2013	703	5,328	13.2	12.2 - 14.2	Statistically significantly higher	
2013-2014	650	5,317	12.2	11.3 - 13.2	Not statistically significantly different	
2014-2015	641	5,224	12.3	11.3 - 13.2	Not statistically significantly different	
2015-2016	586	5,098	11.5	10.6 - 12.4	Not statistically significantly different	
2016-2017	561	4,933	11.4	10.4 - 12.3	Not statistically significantly different	
Weymouth - Annual Average	655	5,249	12.5	12.1 - 12.8	Statistically significantly higher	

Statewide											
School Year	Student Case Count	Student Enrollment Count	Prevalence	95% Confidence Interval							
2009-2010	80,440	696,904	11.5	11.4 - 11.6							
2010-2011	80,948	693,338	11.7	11.6 - 11.8							
2011-2012	82,548	691,614	11.9	11.8 - 12.0							
2012-2013	83,568	691,060	12.1	12.0 - 12.2							
2013-2014	85,364	689,300	12.4	12.3 - 12.5							
2014-2015	83,854	685,649	12.2	12.1 - 12.3							
2015-2016	84,230	681,295	12.4	12.3 - 12.5							
2016-2017	82,279	679,336	12.1	12.0 - 12.2							
Statewide - Annual Average	82,904	688,562	12.0	12.0 - 12.1							

- · U or Unstable indicates that a rate is unstable, because it has a relative standard error > 30%, and should be interpreted with caution.
- · NS indicates number/prevalence not shown due to small numbers. These data are suppressed for confidentiality reasons.
- · NA indicates insufficient school enrollment data available to calculate prevalence. NA for both student case count and student enrollment may indicate the school location is no longer in use, or prevalence could not be calculated due to a data collection issue
- · School list is based on the current data provided by the Massachusetts Department of Education http://www.doe.mass.edu/
- · Asthma prevalence is only for children enrolled in grades Kindergarten through 8th grade.
- · Community prevalence is based on the residential address of the student.
- · When comparing prevalence across geographic areas, a variety of non-environmental factors can impact asthma prevalence.
- · Statistical significance indicates that prevalence is different from the state prevalence and the difference is unlikely due to chance.
- 95% confidence intervals represent the precision of the estimates shown. When zero cases are observed in a population, the upper 95% confidence limit is calculated using a method known as the "rule of three." This method calls for substituting a three for the number of cases when calculating the upper 95% confidence interval in order to produce a more accurate upper bound when the observed case count is zero.
- · Data source: Bureau of Environmental Health Massachusetts Department of Public Health.
- · Numbers and prevalence may differ slightly from those contained in other publications. These differences may be due to file updates, differences in calculating prevalence and updates in population estimates

Pediatric Asthma Prevalence per 100 Students for Males and Females Combined for School Years 2009-2010 to 2016-2017 by School (within Focus Area)

Quincy - Public - Clifford H Marshall Elementary										
School Year	Student Case Count	Student Enrollment Count	Prevalence	95% Confidence Interval	Statistical Significance	Stability				
2009-2010	35	535	6.5	4.3 - 8.7	Statistically significantly lower					
2010-2011	28	530	5.3	3.3 - 7.3	Statistically significantly lower					
2011-2012	61	563	10.8	8.1 - 13.5	Not statistically significantly different					
2012-2013	63	559	11.3	8.5 - 14.1	Not statistically significantly different					
2013-2014	67	577	11.6	8.8 - 14.4	Not statistically significantly different					
2014-2015	86	575	15	11.8 - 18.2	Not statistically significantly different					
2015-2016	86	577	14.9	11.8 - 18.0	Not statistically significantly different					
2016-2017	93	575	16.2	12.9 - 19.5	Statistically significantly higher					

11.6

10.6 - 12.6

Not statistically significantly different

School Annual Average

65

561

Quincy - Private - Mutanafisun Academy									
School Year	Student Case Count	Student Enrollment Count	Prevalence	95% Confidence Interval	Statistical Significance	Stability			
2009-2010	0	NA	NC	NC	NC				
2010-2011	0	NA	NC	NC	NC				
2011-2012	0	NA	NC	NC	NC				
2012-2013	0	33	0	0 - 19.4	Not statistically significantly different	Unstable			
2013-2014	0	33	0	0 - 19.4	Not statistically significantly different	Unstable			
2014-2015	NS	37	NS	NS	NS				
2015-2016	0	27	0	0 - 23.7	Not statistically significantly different	Unstable			
2016-2017	NS	50	NS	NS	NS				
School Annual Average	0	22	1.1	0.0 - 2.7	Statistically significantly lower				

Quincy - Public - Snug Harbor Community School									
School Year	Student Case Count	Student Enrollment Count	Prevalence	95% Confidence Interval	Statistical Significance	Stability			
2009-2010	30	252	11.9	7.6 - 16.2	Not statistically significantly different				
2010-2011	31	285	10.9	7.1 - 14.7	Not statistically significantly different				
2011-2012	30	288	10.4	6.7 - 14.1	Not statistically significantly different				
2012-2013	25	291	8.6	5.2 - 12.0	Statistically significantly lower				
2013-2014	26	311	8.4	5.2 - 11.6	Statistically significantly lower				
2014-2015	40	300	13.3	9.2 - 17.4	Not statistically significantly different				
2015-2016	46	302	15.2	10.8 - 19.6	Not statistically significantly different				
2016-2017	43	303	14.2	10.0 - 18.4	Not statistically significantly different				
School Annual Average	34	292	11.6	10.2 - 13.0	Not statistically significantly different				

Pediatric Asthma Prevalence per 100 Students for Males and Females Combined for School Years 2009-2010 to 2016-2017 by School (within Focus Area)

Weymouth - Private - St Jerome Elementary									
School Year	Student Case Count	Student Enrollment Count	Prevalence	95% Confidence Interval	Statistical Significance	Stability			
2009-2010	17	184	9.2	4.8 - 13.6	Not statistically significantly different				
2010-2011	15	188	8	4.0 - 12.0	Not statistically significantly different				
2011-2012	15	174	8.6	4.2 - 13.0	Not statistically significantly different				
2012-2013	15	179	8.4	4.1 - 12.7	Not statistically significantly different				
2013-2014	12	159	7.5	3.3 - 11.7	Statistically significantly lower				
2014-2015	13	157	8.3	3.8 - 12.8	Not statistically significantly different				
2015-2016	9	149	6	2.1 - 9.9	Statistically significantly lower	Unstable			
2016-2017	11	145	7.6	3.1 - 12.1	Not statistically significantly different	Unstable			
School Annual Average	13	167	8	6.5 - 9.5	Statistically significantly lower				

Weymouth - Public - Wessagusset									
School Year	Student Case Count	Student Enrollment Count	Prevalence	95% Confidence Interval	Statistical Significance	Stability			
2009-2010	33	405	8.1	5.3 - 10.9	Statistically significantly lower				
2010-2011	46	387	11.9	8.5 - 15.3	Not statistically significantly different				
2011-2012	40	375	10.7	7.4 - 14.0	Not statistically significantly different				
2012-2013	77	361	21.3	16.5 - 26.1	Statistically significantly higher				
2013-2014	50	353	14.2	10.3 - 18.1	Not statistically significantly different				
2014-2015	38	348	10.9	7.4 - 14.4	Not statistically significantly different				
2015-2016	21	330	6.4	3.7 - 9.1	Statistically significantly lower				
2016-2017	21	294	7.1	4.1 - 10.1	Statistically significantly lower				
School Annual Average	41	357	11.4	10.2 - 12.7	Not statistically significantly different				

Statewide

School Year	Student Case Count	Student Enrollment Count	Prevalence	95% Confidence Interval
2009-2010	80,440	696,904	11.5	11.4 - 11.6
2010-2011	80,948	693,338	11.7	11.6 - 11.8
2011-2012	82,548	691,614	11.9	11.8 - 12.0
2012-2013	83,568	691,060	12.1	12.0 - 12.2
2013-2014	85,364	689,300	12.4	12.3 - 12.5
2014-2015	83,854	685,649	12.2	12.1 - 12.3
2015-2016	84,230	681,295	12.4	12.3 - 12.5
2016-2017	82,279	679,336	12.1	12.0 - 12.2

Pediatric Asthma Prevalence per 100 Students for Males and Females Combined for School Years 2009-2010 to 2016-2017 by School (within Focus Area)

Statewide - Annual Average 82,904 688,562 12.0 12.0 - 12.1	Statewide - Annual Average	82,904	688,562	12.0	12.0 - 12.1
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- · U or Unstable indicates that a rate is unstable, because it has a relative standard error > 30%, and should be interpreted with caution.
- · NS indicates number/prevalence not shown due to small numbers. These data are suppressed for confidentiality reasons.
- · NA indicates insufficient school enrollment data available to calculate prevalence. NA for both student case count and student enrollment may indicate the school location is no longer in use, or prevalence could not be calculated due to a data collection issue
- · School list is based on the current data provided by the Massachusetts Department of Education http://www.doe.mass.edu/
- · Asthma prevalence is only for children enrolled in grades Kindergarten through 8th grade.
- · School prevalence is based on the school attended by the student.
- · When comparing prevalence across geographic areas, a variety of non-environmental factors can impact asthma prevalence.
- Statistical significance indicates that prevalence is different from the state prevalence and the difference is unlikely due to chance.
- 95% confidence intervals represent the precision of the estimates shown. When zero cases are observed in a population, the upper 95% confidence limit is calculated using a method known as the "rule of three." This method calls for substituting a three for the number of cases when calculating the upper 95% confidence interval in order to produce a more accurate upper bound when the observed case count is zero.
- · Data source: Bureau of Environmental Health Massachusetts Department of Public Health.
- · Numbers and prevalence may differ slightly from those contained in other publications. These differences may be due to file updates, differences in calculating prevalence and updates in population estimates

Age-Adjusted Rates of Hospital Admission for Asthma per 10,000 People, for Males and Females Combined for 2000 - 2015 by Community

Braintree						
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals	Statistical Difference	Stability
2000	44	13.0	12.1	8.5 - 15.7	Not statistically significantly different	
2001	36	10.6	10.6	7.1 - 14.1	Not statistically significantly different	
2002	39	11.4	10.8	7.4 - 14.2	Not statistically significantly different	
2003	43	12.5	12.7	8.9 - 16.5	Not statistically significantly different	
2004	49	14.2	13.4	9.6 - 17.1	Not statistically significantly different	
2005	32	9.2	8.3	5.4 - 11.2	Statistically significantly lower	
2006	45	12.9	11.7	8.3 - 15.2	Not statistically significantly different	
2007	53	15.1	14.3	10.4 - 18.1	Not statistically significantly different	
2008	46	13.0	12.5	8.9 - 16.1	Not statistically significantly different	
2009	59	16.6	15.2	11.3 - 19.0	Not statistically significantly different	
2010	52	14.6	14.2	10.3 - 18.0	Not statistically significantly different	
2011	70	19.3	19.0	14.6 - 23.5	Not statistically significantly different	
2012	37	10.1	9.4	6.4 - 12.5	Statistically significantly lower	
2013	42	11.3	11.2	7.8 - 14.6	Not statistically significantly different	
2014	42	11.1	11.4	8.0 - 14.9	Not statistically significantly different	
2015	31	8.1	7.8	5.1 - 10.5	Statistically significantly lower	
Braintree - Annual Average	45	12.7	12.2	11.3 - 13.1	Statistically significantly lower	

Hingham						
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals	Statistical Difference	Stability
2000	NS	NS	NS	NS	NS	
2001	21	10.4	9.2	5.3 - 13.1	Not statistically significantly different	
2002	14	6.9	6.6	3.1 - 10.0	Statistically significantly lower	
2003	11	5.4	4.5	1.2 - 7.1	Statistically significantly lower	Unstable
2004	14	6.7	6.3	3.0 - 9.6	Statistically significantly lower	
2005	24	11.4	9.5	5.7 - 13.3	Statistically significantly lower	
2006	11	5.2	4.9	2.0 - 7.7	Statistically significantly lower	Unstable
2007	19	8.9	7.7	4.3 - 11.2	Statistically significantly lower	
2008	22	10.1	8.6	5.0 - 12.2	Statistically significantly lower	
2009	16	7.3	6.1	3.1 - 9.1	Statistically significantly lower	
2010	27	12.2	9.1	5.7 - 12.6	Statistically significantly lower	
2011	22	9.8	9.4	5.5 - 13.4	Statistically significantly lower	
2012	13	5.8	4.9	2.2 - 7.6	Statistically significantly lower	
2013	18	7.9	6.0	3.2 - 8.7	Statistically significantly lower	
2014	NS	NS	NS	NS	NS	

Age-Adjusted Rates of Hospital Admission for Asthma per 10,000 People, for Males and Females Combined for 2000 - 2015 by Community

2015	19	8.2	6.0	3.3 - 8.7	Statistically significantly lower	
Hingham - Annual Average	17	7.7	6.6	5.8 - 7.4	Statistically significantly lower	

Quincy						
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals	Statistical Difference	Stability
2000	111	12.6	12.5	10.2 - 14.8	Not statistically significantly different	
2001	117	13.2	13.4	10.9 - 15.8	Not statistically significantly different	
2002	104	11.7	12.1	9.8 - 14.5	Not statistically significantly different	
2003	136	15.2	15.7	13.0 - 18.3	Not statistically significantly different	
2004	108	12.0	12.1	9.8 - 14.3	Not statistically significantly different	
2005	131	14.5	14.5	12.0 - 17.0	Not statistically significantly different	
2006	141	15.6	16.0	13.3 - 18.6	Not statistically significantly different	
2007	105	11.5	11.4	9.2 - 13.5	Statistically significantly lower	
2008	121	13.2	13.1	10.7 - 15.4	Statistically significantly lower	
2009	123	13.4	13.9	11.4 - 16.3	Not statistically significantly different	
2010	114	12.4	12.4	10.1 - 14.7	Statistically significantly lower	
2011	119	12.7	12.3	10.1 - 14.5	Statistically significantly lower	
2012	89	9.4	9.7	7.7 - 11.8	Statistically significantly lower	
2013	82	8.6	8.5	6.7 - 10.3	Statistically significantly lower	
2014	104	10.7	10.4	8.4 - 12.4	Not statistically significantly different	
2015	78	8.0	8.5	6.6 - 10.4	Statistically significantly lower	
Quincy - Annual Average	111	12.1	12.3	11.7 - 12.8	Statistically significantly lower	

Weymouth						
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals	Statistical Difference	Stability
2000	72	13.3	13.1	10.0 - 16.1	Not statistically significantly different	
2001	67	12.4	12.0	9.2 - 14.9	Not statistically significantly different	
2002	70	13.0	13.1	10.0 - 16.1	Not statistically significantly different	
2003	77	14.3	14.0	10.9 - 17.1	Not statistically significantly different	
2004	71	13.2	12.7	9.7 - 15.6	Not statistically significantly different	
2005	86	16.0	15.6	12.3 - 18.9	Not statistically significantly different	
2006	75	13.9	13.9	10.8 - 17.0	Not statistically significantly different	
2007	70	13.0	13.1	10.1 - 16.2	Not statistically significantly different	
2008	110	20.5	21.1	17.2 - 25.1	Statistically significantly higher	
2009	100	18.6	18.2	14.7 - 21.8	Not statistically significantly different	
2010	101	18.8	19.6	15.8 - 23.4	Not statistically significantly different	
2011	89	16.4	17.3	13.7 - 20.9	Not statistically significantly different	

Age-Adjusted Rates of Hospital Admission for Asthma per 10,000 People, for Males and Females Combined for 2000 - 2015 by Community

2012	89	16.3	16.5	13.1 - 19.9	Not statistically significantly different	
2013	73	13.3	13.0	10.0 - 16.0	Not statistically significantly different	
2014	92	16.7	16.0	12.7 - 19.3	Statistically significantly higher	
2015	81	14.6	13.6	10.6 - 16.6	Not statistically significantly different	
Weymouth - Annual Average	83	15.3	15.2	14.4 - 16.0	Statistically significantly higher	

State Wide				
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals
2000	8,039	12.7	12.6	12.3 - 12.9
2001	8,287	13.0	13.1	12.8 - 13.4
2002	8,084	12.7	12.8	12.5 - 13.1
2003	9,945	15.5	15.7	15.4 - 16.0
2004	8,855	13.8	13.8	13.5 - 14.1
2005	9,062	14.1	14.1	13.8 - 14.4
2006	9,491	14.7	14.7	14.4 - 15.0
2007	9,385	14.5	14.5	14.2 - 14.8
2008	10,311	15.8	15.9	15.6 - 16.2
2009	10,577	16.2	16.0	15.7 - 16.3
2010	10,133	15.5	15.5	15.2 - 15.8
2011	9,928	15.0	15.0	14.7 - 15.3
2012	8,852	13.3	13.4	13.1 - 13.7
2013	7,957	11.8	11.9	11.6 - 12.2
2014	8,172	12.0	11.9	11.6 - 12.2
2015	7,347	10.8	10.7	10.5 - 11.0
Statewide - Annual Average	9,027	13.8	13.9	13.8 - 13.9

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- · 95% confidence intervals are calculated using the age adjusted rate when it is displayed in the report.
- · NS = Not shown. Statistics are suppressed to protect confidentiality when the number of cases is ≤10.
- 95% confidence intervals represent the precision of the estimates shown. When zero cases are observed in a population, the upper 95% confidence limit is calculated using a method known as the "rule of three." This method calls for substituting a three for the number of cases when calculating the upper 95% confidence interval in order to produce a more accurate upper bound when the observed case count is zero.
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- Difference in counts and rates in years prior to 2015 compared to 2015 could be a result of the change from ICD-9CM to ICD-10CM (coding of medical terminology and disease classification) that took place on October 1, 2015.
- · Data source: Center for Health Information and Analysis (CHIA)
- · Population estimates for 2000 and 2010 are from the U.S. Decennial Census. Inter-censal year estimates for 2001 through 2009 were created by linear interpolation of U.S. Decennial Census data. Post-censal year estimates for 2011 to present were created by the UMass Donahue Institute.

Age Adjusted Rates of Hospital Admission for Asthma per 10,000 People, for Males and Females Combined for 2010 - 2015 by Zip Code

Zip Code 02191						
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals	Statistical Difference	Stability
2010	18	21.3	21.6	11.6 - 31.6	Not statistically significantly different	
2011	13	14.9	22.5	10.3 - 34.7	Not statistically significantly different	
2012	NS	NS	NS	NS	NS	
2013	NS	NS	NS	NS	NS	
2014	11	13.2	13.8	5.6 - 22.0	Not statistically significantly different	
2015	NS	NS	NS	NS	NS	
Zip Code - 02191 Annual Average	11	12.4	13.8	5.6 - 22.0	Not statistically significantly different	

State Wide							
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals			
2010	10,133	15.5	15.5	15.2 - 15.8			
2011	9,928	15.0	15.0	14.7 - 15.3			
2012	8,852	13.3	13.4	13.1 - 13.7			
2013	7,957	11.8	11.9	11.6 - 12.2			
2014	8,172	12.0	11.9	11.6 - 12.2			
2015	7,347	10.8	10.7	10.5 - 11.0			
Statewide - Annual Average	8,732	13.1	13.1	12.8 - 13.4			

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- · 95% confidence intervals are calculated using the age adjusted rate when it is displayed in the report.
- · NS = Not shown. Statistics are suppressed to protect confidentiality when the number of cases is ≤10.
- 95% confidence intervals represent the precision of the estimates shown. When zero cases are observed in a population, the upper 95% confidence limit is calculated using a method known as the "rule of three." This method calls for substituting a three for the number of cases when calculating the upper 95% confidence interval in order to produce a more accurate upper bound when the observed case count is zero.
- · Numbers and rates may differ slightly from those contained in other publications. These differences may be due to file updates, differences in calculating rates and updates in population estimates.
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- · Data source: Center for Health Information and Analysis (CHIA)
- · Population estimates for 2000 and 2010 are from the U.S. Decennial Census. Post-censal year estimates for 2011 to 2015 were created by the UMass Donahue Institute and used for statewide rates. Post-censal year estimates for 2011 to 2015 from the American Community Survey by the U.S. Census Bureau were used for zip code rates.

Age-Adjusted Rates of Emergency Department Visits for Asthma per 10,000 People, for Males and Females Combined for 2002 - 2015 by Community

Braintree						
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals	Statistical Difference	Stability
2002	139	40.6	42.6	35.5 - 49.7	Statistically significantly lower	
2003	165	48.0	52.3	44.3 - 60.3	Statistically significantly lower	
2004	176	50.9	54.3	46.3 - 62.4	Statistically significantly lower	
2005	173	49.7	53.1	45.2 - 61.0	Statistically significantly lower	
2006	153	43.7	47.3	39.8 - 54.8	Statistically significantly lower	
2007	132	37.5	39.3	32.6 - 46.0	Statistically significantly lower	
2008	127	35.9	38.4	31.7 - 45.0	Statistically significantly lower	
2009	181	50.9	53.8	45.9 - 61.6	Statistically significantly lower	
2010	134	37.5	39.2	32.6 - 45.9	Statistically significantly lower	
2011	185	51.0	53.0	45.4 - 60.7	Statistically significantly lower	
2012	162	44.0	47.0	39.7 - 54.2	Statistically significantly lower	
2013	169	45.3	49.6	42.1 - 57.0	Statistically significantly lower	
2014	201	53.3	58.3	50.3 - 66.4	Statistically significantly lower	
2015	162	42.5	46.0	38.9 - 53.1	Statistically significantly lower	
Braintree - Annual Average	161	45.1	48.2	46.2 - 50.1	Statistically significantly lower	

Hingham						
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals	Statistical Difference	Stability
2002	49	24.1	24.2	17.4 - 30.9	Statistically significantly lower	
2003	55	26.7	30.3	22.3 - 38.3	Statistically significantly lower	
2004	66	31.7	31.9	24.2 - 39.6	Statistically significantly lower	
2005	71	33.8	33.8	25.9 - 41.7	Statistically significantly lower	
2006	35	16.5	18.7	12.5 - 24.9	Statistically significantly lower	
2007	60	27.9	31.1	23.2 - 39.0	Statistically significantly lower	
2008	50	23.0	23.4	16.9 - 29.9	Statistically significantly lower	
2009	51	23.3	26.5	19.2 - 33.8	Statistically significantly lower	
2010	55	24.8	26.0	19.1 - 32.9	Statistically significantly lower	
2011	49	21.9	23.1	16.6 - 29.5	Statistically significantly lower	
2012	46	20.4	22.3	15.9 - 28.8	Statistically significantly lower	
2013	51	22.4	22.9	16.6 - 29.2	Statistically significantly lower	
2014	41	17.9	18.7	13.00- 24.5	Statistically significantly lower	
2015	54	23.3	21.7	15.9 - 27.5	Statistically significantly lower	
Hingham - Annual Average	52	24.0	25.3	23.5 - 27.2	Statistically significantly lower	

Quincy

Age-Adjusted Rates of Emergency Department Visits for Asthma per 10,000 People, for Males and Females Combined for 2002 - 2015 by Community

Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals	Statistical Difference	Stability
2002	492	55.4	58.3	53.2 - 63.5	Statistically significantly lower	
2003	533	59.7	64.6	59.1 - 70.1	Statistically significantly lower	
2004	529	59.0	63.6	58.2 - 69.0	Statistically significantly lower	
2005	522	57.9	61.9	56.6 - 67.2	Statistically significantly lower	
2006	567	62.6	66.4	61.0 - 71.9	Statistically significantly lower	
2007	500	54.9	57.5	52.5 - 62.5	Statistically significantly lower	
2008	504	55.1	57.8	52.7 - 62.8	Statistically significantly lower	
2009	503	54.8	58.6	53.5 - 63.7	Statistically significantly lower	
2010	472	51.2	54.3	49.4 - 59.2	Statistically significantly lower	
2011	478	51.1	53.9	49.1 - 58.7	Statistically significantly lower	
2012	484	51.1	55.1	50.2 - 60.0	Statistically significantly lower	
2013	458	47.8	50.9	46.3 - 55.6	Statistically significantly lower	
2014	498	51.4	55.8	50.9 - 60.7	Statistically significantly lower	
2015	451	46.2	47.9	43.5 - 52.3	Statistically significantly lower	
Quincy - Annual Average	499	54.0	57.6	56.3 - 59.0	Statistically significantly lower	

Weymouth						
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals	Statistical Difference	Stability
2002	260	48.2	50.4	44.2 - 56.5	Statistically significantly lower	
2003	249	46.2	47.7	41.8 - 53.7	Statistically significantly lower	
2004	299	55.5	58.1	51.5 - 64.7	Statistically significantly lower	
2005	350	65.0	68.8	61.6 - 76.0	Not statistically significantly different	
2006	275	51.1	54.7	48.2 - 61.1	Statistically significantly lower	
2007	265	49.2	53.5	47.0 - 59.9	Statistically significantly lower	
2008	342	63.6	68.5	61.3 - 75.8	Statistically significantly lower	
2009	344	64.0	68.2	61.0 - 75.4	Statistically significantly lower	
2010	341	63.4	69.4	62.0 - 76.7	Not statistically significantly different	
2011	324	59.7	65.7	58.6 - 72.9	Not statistically significantly different	
2012	348	63.7	68.9	61.6 - 76.1	Not statistically significantly different	
2013	354	64.3	70.1	62.8 - 77.4	Not statistically significantly different	
2014	406	73.5	80.1	72.3 - 87.9	Statistically significantly higher	
2015	324	58.5	62.8	56.0 - 69.7	Not statistically significantly different	
Weymouth - Annual Average	320	59.0	63.3	61.5 - 65.2	Statistically significantly lower	

State Wide

Age-Adjusted Rates of Emergency Department Visits for Asthma per 10,000 People, for Males and Females Combined for 2002 - 2015 by Community

Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals
2002	47,478	74.3	75.7	75.0 - 76.4
2003	51,063	79.7	81.6	80.9 - 82.3
2004	45,147	70.2	72.0	71.3 - 72.7
2005	46,020	71.4	73.3	72.6 - 74.0
2006	47,119	72.8	75.2	74.5 - 75.9
2007	45,486	70.1	72.8	72.1 - 73.5
2008	49,066	75.4	78.4	77.7 - 79.1
2009	47,869	73.3	76.3	75.6 - 77.0
2010	43,884	67.0	70.1	69.4 - 70.8
2011	45,152	68.2	71.6	70.9 - 72.3
2012	46,284	69.3	73.0	72.3 - 73.7
2013	43,897	65.2	68.7	68.1 - 69.3
2014	45,371	66.8	70.8	70.1 - 71.5
2015	42,887	62.8	66.5	65.9 - 57.2
Statewide - Annual Average	46,195	70.4	73.3	73.1 - 73.4

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Age Adjusted Rates of Emergency Department Visits for Asthma per 10,000 People, for Males and Females Combined for 2010 - 2015 by Zip Code

Zip Code 02191						
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals	Statistical Difference	Stability
2010	49	57.9	68.3	49.2 - 87.4	Not statistically significantly different	
2011	48	55.3	68.3	60.1 - 107.5	Not statistically significantly different	
2012	41	46.9	59.9	42.4 - 79.8	Not statistically significantly different	
2013	42	50.2	62.6	46.3 - 86.5	Not statistically significantly different	
2014	32	38.2	43.5	30.5 - 62.7	Statistically significantly lower	
2015	27	32.3	36.0	24.8 - 46.0	Statistically significantly lower	
Zip Code - 02191 Annual Average	40	46.8	56.4	38.9 - 73.9	Not statistically significantly different	

State Wide									
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals					
2010	43,884	67.0	70.1	69.4 - 70.8					
2011	45,152	68.2	71.6	70.9 - 72.3					
2012	46,284	69.3	73.0	72.3 - 73.7					
2013	43,897	65.2	68.7	68.1 - 69.3					
2014	45,371	66.8	70.8	70.1 - 71.5					
2015	42,887	62.8	66.5	65.9 - 67.2					
Statewide - Annual Average	44,579	66.5	70.1	69.4 - 70.8					

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Age-Adjusted Rates of Hospital Admission for COPD per 10,000 People, for Males and Females Combined for 2000 - 2015 by Community

Braintree						
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals	Statistical Difference	Stability
2000	98	40.8	32.8	26.3 - 39.3	Not statistically significantly different	
2001	112	46.4	37.2	30.3 - 44.1	Not statistically significantly different	
2002	96	39.5	32.3	25.8 - 38.7	Not statistically significantly different	
2003	109	44.7	35.6	28.9 - 42.2	Not statistically significantly different	
2004	117	47.7	37.8	30.9 - 44.6	Statistically significantly higher	
2005	110	44.6	35.5	28.9 - 42.1	Statistically significantly higher	
2006	90	36.3	28.3	22.5 - 34.2	Not statistically significantly different	
2007	107	43.0	34.5	28.0 - 41.1	Statistically significantly higher	
2008	127	50.8	41.1	33.9 - 48.2	Statistically significantly higher	
2009	130	51.7	40.5	33.5 - 47.4	Statistically significantly higher	
2010	125	49.5	40.4	33.3 - 47.5	Statistically significantly higher	
2011	139	54.3	43.9	36.6 - 51.2	Statistically significantly higher	
2012	123	47.4	36.6	30.1 - 43.1	Not statistically significantly different	
2013	94	35.8	29.0	23.2 - 34.9	Not statistically significantly different	
2014	92	34.7	28.9	23.0 - 34.9	Not statistically significantly different	
2015	107	40.1	32.1	26.0 - 38.2	Not statistically significantly different	
Braintree - Annual Average	111	44.2	35.4	33.8 - 37.1	Statistically significantly higher	

Hingham						
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals	Statistical Difference	Stability
2000	31	22.9	20.5	13.3 - 27.7	Statistically significantly lower	
2001	44	32.2	28.3	19.9 - 36.6	Not statistically significantly different	
2002	36	26.0	22.4	15.1 - 29.7	Not statistically significantly different	
2003	32	22.8	19.1	12.5 - 25.7	Statistically significantly lower	
2004	28	19.7	14.4	9.0 - 19.7	Statistically significantly lower	
2005	41	28.6	20.6	14.3 - 26.9	Statistically significantly lower	
2006	29	20.0	15.8	10.0 - 21.5	Statistically significantly lower	
2007	22	15.0	10.1	5.9 - 14.3	Statistically significantly lower	
2008	53	35.7	19.6	14.3 - 24.8	Statistically significantly lower	
2009	47	31.3	20.0	14.3 - 25.7	Statistically significantly lower	
2010	44	28.9	18.5	13.1 - 24.0	Statistically significantly lower	
2011	49	31.9	19.4	13.9 - 24.8	Statistically significantly lower	
2012	38	24.5	15.4	10.5 - 20.2	Statistically significantly lower	
2013	41	26.1	15.2	10.5 - 19.8	Statistically significantly lower	
2014	33	20.8	12.5	8.2 - 16.7	Statistically significantly lower	

Age-Adjusted Rates of Hospital Admission for COPD per 10,000 People, for Males and Females Combined for 2000 - 2015 by Community

2015	49	30.5	19.4	14.0 - 24.8	Statistically significantly lower
Hingham - Annual Average	39	26.1	18.2	16.8 - 19.6	Statistically significantly lower

Quincy						
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals	Statistical Difference	Stability
2000	303	46.2	44.5	39.4 - 49.5	Statistically significantly higher	
2001	304	46.1	43.5	38.6 - 48.4	Statistically significantly higher	
2002	256	38.7	36.4	32.0 - 40.9	Statistically significantly higher	
2003	302	45.4	42.3	37.5 - 47.0	Statistically significantly higher	
2004	345	51.6	48.6	43.5 - 53.7	Statistically significantly higher	
2005	340	50.6	47.7	42.7 - 52.8	Statistically significantly higher	
2006	282	41.7	40.3	35.6 - 45.0	Statistically significantly higher	
2007	286	42.1	40.1	35.4 - 44.7	Statistically significantly higher	
2008	353	51.7	49.0	43.9 - 54.1	Statistically significantly higher	
2009	352	51.3	48.7	43.7 - 53.8	Statistically significantly higher	
2010	304	44.1	41.3	36.6 - 45.9	Statistically significantly higher	
2011	299	42.7	39.8	35.3 - 44.3	Statistically significantly higher	
2012	259	36.5	34.8	30.6 - 39.1	Statistically significantly higher	
2013	220	30.6	28.4	24.7 - 32.2	Not statistically significantly different	
2014	224	30.8	28.4	24.7 - 32.1	Not statistically significantly different	
2015	236	32.2	29.2	25.5 - 32.0	Not statistically significantly different	
Quincy - Annual Average	292	42.5	40.2	39.0 - 41.3	Statistically significantly higher	

Weymouth						
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals	Statistical Difference	Stability
2000	189	49.0	46.1	39.6 - 52.7	Statistically significantly higher	
2001	176	45.6	42.3	36.1 - 48.6	Statistically significantly higher	
2002	164	42.5	39.5	33.4 - 45.5	Statistically significantly higher	
2003	194	50.2	46.5	40.0 - 53.1	Statistically significantly higher	
2004	166	43.0	39.2	33.2 - 45.1	Statistically significantly higher	
2005	175	45.3	41.4	35.3 - 47.6	Statistically significantly higher	
2006	149	38.6	34.8	29.2 - 40.3	Statistically significantly higher	
2007	157	40.6	37.1	31.3 - 42.9	Statistically significantly higher	
2008	228	58.9	53.0	46.1 - 59.8	Statistically significantly higher	
2009	208	53.8	47.7	41.3 - 54.2	Statistically significantly higher	
2010	216	55.8	49.1	42.5 - 55.6	Statistically significantly higher	
2011	205	52.4	45.3	39.1 - 51.5	Statistically significantly higher	

Age-Adjusted Rates of Hospital Admission for COPD per 10,000 People, for Males and Females Combined for 2000 - 2015 by Community

2012	215	54.5	47.7	41.3 - 54.1	Statistically significantly higher	
2013	226	56.8	48.2	41.9 - 54.5	Statistically significantly higher	
2014	273	68.2	56.0	49.3 - 62.6	Statistically significantly higher	
2015	244	60.9	50.4	44.0 - 56.7	Statistically significantly higher	
Weymouth - Annual Average	199	51.1	45.3	43.7 - 46.8	Statistically significantly higher	

State Wide				
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals
2000	14,325	33.6	33.2	32.7 - 33.7
2001	13,320	31.1	30.4	29.9 - 30.9
2002	13,140	30.5	29.5	29.0 - 30.0
2003	12,983	30.0	28.8	28.3 - 29.3
2004	12,259	28.2	26.8	26.3 - 27.3
2005	12,749	29.2	27.7	27.2 - 28.2
2006	12,615	28.8	27.0	26.5 - 27.5
2007	12,588	28.6	26.9	26.4 - 27.4
2008	15,338	34.7	32.3	31.8 - 32.8
2009	15,821	35.7	32.9	32.4 - 33.4
2010	15,846	35.6	32.8	32.3 - 33.3
2011	16,757	37.1	33.7	33.2 - 34.2
2012	15,218	33.3	29.8	29.3 - 30.3
2013	14,074	30.4	26.9	26.5 - 27.3
2014	13,271	28.4	25.0	24.6 - 25.4
2015	14,319	30.3	26.3	25.9 - 26.7
Statewide - Annual Average	14,039	31.6	29.4	29.3 - 29.5

- · COPD rates are only calculated among people 25 years of age and older.
- · U or Unstable indicates that a rate is unstable, because it has a relative standard error > 30%, and should be interpreted with caution.
- · 95% confidence intervals are calculated using the age adjusted rate when it is displayed in the report.
- · NS = Not shown. Statistics are suppressed to protect confidentiality when the number of cases is ≤10.
- 95% confidence intervals represent the precision of the estimates shown. When zero cases are observed in a population, the upper 95% confidence limit is calculated using a method known as the "rule of three." This method calls for substituting a three for the number of cases when calculating the upper 95% confidence interval in order to produce a more accurate upper bound when the observed case count is zero.
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Age Adjusted Rates of Hospital Admission for COPD per 10,000 People, for Males and Females Combined for 2010 - 2015 by Zip Code

Zip Code 02191						
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals	Statistical Difference	Stability
2010	29	45.9	24.5	15.6 - 33.4	Not statistically significantly different	
2011	26	40.8	21.6	13.3 - 29.9	Statistically significantly lower	
2012	24	37.3	21.6	13.0 - 30.2	Not statistically significantly different	
2013	43	68.7	36.7	25.7 - 47.7	Not statistically significantly different	
2014	45	73.3	38.2	27.0 - 49.4	Statistically significantly higher	
2015	35	56.6	29.5	19.7 - 39.3	Not statistically significantly different	
Zip Code - 02191 Annual Average	34	53.8	28.7	19.1 - 38.3	Not statistically significantly different	

State Wide								
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals				
2010	15,846	35.6	32.8	32.3 - 33.3				
2011	16,757	37.1	33.7	33.2 - 34.2				
2012	15,218	33.3	29.8	29.3 - 30.3				
2013	14,074	30.4	26.9	26.5 - 27.3				
2014	13,271	28.4	25.0	24.6 - 25.4				
2015	14,319	30.3	26.3	25.9 - 26.7				
Statewide - Annual Average	14,914	32.5	29.1	28.6 - 29.6				

- · COPD rates are only calculated among people 25 years of age and older.
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- Difference in counts and rates in years prior to 2015 compared to 2015 could be a result of the change from ICD-9CM to ICD-10CM (coding of medical terminology and disease classification) that took place on October 1, 2015.
- · Data source: Center for Health Information and Analysis (CHIA)
- · Population estimates for 2000 and 2010 are from the U.S. Decennial Census. Post-censal year estimates for 2011 to 2015 were created by the UMass Donahue Institute and used for statewide rates. Post-censal year estimates for 2011 to 2015 from the American Community Survey by the U.S. Census Bureau were used for zip code rates.

Age-Adjusted Rates of Hospital Admission for Myocardial Infarction per 10,000 People Age 35+, for Males and Females Combined for 2000 - 2015 by Community

Braintree						
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals	Statistical Difference	Stability
2000	112	56.9	48.2	39.3 - 57.1	Not statistically significantly different	
2001	145	73.1	61.3	51.3 - 71.3	Not statistically significantly different	
2002	107	53.6	46.4	37.6 - 55.2	Not statistically significantly different	
2003	132	65.6	54.7	45.3 - 64.0	Not statistically significantly different	
2004	114	56.3	47.2	38.5 - 55.9	Not statistically significantly different	
2005	103	50.5	42.0	33.9 - 50.0	Not statistically significantly different	
2006	133	64.8	55.3	45.9 - 64.7	Statistically significantly higher	
2007	102	49.4	41.1	33.1 - 49.1	Not statistically significantly different	
2008	120	57.7	47.6	39.1 - 56.2	Statistically significantly higher	
2009	93	44.4	36.1	28.8 - 43.5	Not statistically significantly different	
2010	88	41.8	34.9	27.6 - 42.1	Not statistically significantly different	
2011	88	41.2	35.8	28.3 - 43.2	Not statistically significantly different	
2012	86	39.8	32.8	25.9 - 39.8	Not statistically significantly different	
2013	76	34.8	28.5	22.1 - 34.9	Not statistically significantly different	
2014	53	24.0	20.5	15.0 - 26.1	Not statistically significantly different	
2015	60	26.9	23.9	17.9 - 30.0	Not statistically significantly different	
Braintree - Annual Average	101	48.3	41.0	39.0 - 43.0	Statistically significantly higher	

Hingham						
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals	Statistical Difference	Stability
2000	62	52.9	52.2	39.2 - 65.2	Not statistically significantly different	
2001	43	36.0	34.3	24.0 - 44.5	Statistically significantly lower	
2002	46	37.8	33.9	24.1 - 43.7	Statistically significantly lower	
2003	61	49.3	44.8	33.6 - 56.1	Not statistically significantly different	
2004	48	38.1	34.6	24.8 - 44.4	Statistically significantly lower	
2005	49	38.3	32.1	23.1 - 41.1	Not statistically significantly different	
2006	49	37.6	30.1	21.6 - 38.5	Statistically significantly lower	
2007	51	38.5	30.7	22.2 - 39.1	Not statistically significantly different	
2008	46	34.2	28.2	20.1 - 36.4	Not statistically significantly different	
2009	52	38.0	28.6	20.9 - 36.4	Not statistically significantly different	
2010	41	29.5	22.5	15.6 - 29.4	Statistically significantly lower	
2011	43	30.6	23.7	16.6 - 30.8	Not statistically significantly different	
2012	36	25.4	15.4	10.4 - 20.4	Statistically significantly lower	
2013	42	29.4	19.3	13.5 - 25.2	Statistically significantly lower	
2014	46	31.9	19.6	14.0 - 25.3	Not statistically significantly different	

Age-Adjusted Rates of Hospital Admission for Myocardial Infarction per 10,000 People Age 35+, for Males and Females Combined for 2000 - 2015 by Community

2015	26	17.8	12.0	7.4 - 16.6	Statistically significantly lower	
Hingham -Annual Average	46	34.9	28.9	26.8 - 31.0	Statistically significantly lower	

Quincy						
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals	Statistical Difference	Stability
2000	302	62.7	54.1	48.0 - 60.2	Not statistically significantly different	
2001	307	63.3	54.4	48.3 - 60.5	Not statistically significantly different	
2002	290	59.3	51.4	45.5 - 57.3	Not statistically significantly different	
2003	306	62.1	54.3	48.2 - 60.4	Not statistically significantly different	
2004	280	56.4	48.9	43.1 - 54.6	Not statistically significantly different	
2005	261	52.2	44.8	39.3 - 50.2	Not statistically significantly different	
2006	283	56.2	49.9	44.0 - 55.7	Statistically significantly higher	
2007	256	50.5	43.7	38.4 - 49.1	Statistically significantly higher	
2008	281	55.0	47.2	41.7 - 52.8	Statistically significantly higher	
2009	236	45.9	40.8	35.6 - 46.0	Statistically significantly higher	
2010	235	45.3	40.5	35.3 - 45.7	Statistically significantly higher	
2011	197	37.5	33.3	28.7 - 38.0	Not statistically significantly different	
2012	190	35.6	30.4	26.1 - 34.7	Not statistically significantly different	
2013	167	30.9	27.9	23.7 - 32.1	Not statistically significantly different	
2014	148	27.1	23.5	19.7 - 27.3	Not statistically significantly different	
2015	144	26.0	22.7	19.0 - 26.4	Not statistically significantly different	
Quincy -Annual Average	243	47.4	41.7	40.4 - 43.0	Statistically significantly higher	

Weymouth						
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals	Statistical Difference	Stability
2000	160	52.8	50.1	42.3 - 57.8	Not statistically significantly different	
2001	175	57.4	54.9	46.8 - 63.0	Not statistically significantly different	
2002	183	59.8	56.1	48.0 - 64.2	Not statistically significantly different	
2003	226	73.5	69.6	60.5 - 78.7	Statistically significantly higher	
2004	185	59.9	56.0	48.0 - 64.1	Statistically significantly higher	
2005	170	54.7	50.5	42.9 - 58.1	Statistically significantly higher	
2006	163	52.3	49.1	41.6 - 56.6	Statistically significantly higher	
2007	150	47.9	44.7	37.6 - 51.9	Not statistically significantly different	
2008	159	50.5	45.7	38.6 - 52.9	Statistically significantly higher	
2009	138	43.6	40.5	33.8 - 47.3	Not statistically significantly different	
2010	111	34.9	32.0	26.0 - 37.9	Not statistically significantly different	
2011	121	37.8	34.4	28.3 - 40.5	Not statistically significantly different	

Age-Adjusted Rates of Hospital Admission for Myocardial Infarction per 10,000 People Age 35+, for Males and Females Combined for 2000 - 2015 by Community

2012	133	41.2	37.4	31.0 - 43.7	Statistically significantly higher	
2013	117	36.0	32.2	26.3 - 38.0	Not statistically significantly different	
2014	97	29.6	26.0	20.8 - 31.2	Not statistically significantly different	
2015	118	35.9	31.0	25.4 - 36.6	Not statistically significantly different	
Weymouth -Annual Average	150	47.7	44.4	42.6 - 46.2	Statistically significantly higher	

State Wide				
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals
2000	17,513	52.4	50.8	50.0 - 51.6
2001	17,817	52.9	50.9	50.2 - 51.6
2002	18,022	53.1	50.7	50.0 - 51.4
2003	18,269	53.4	50.8	50.1 - 51.5
2004	16,392	47.5	45.2	44.5 - 45.9
2005	15,346	44.2	41.5	40.8 - 42.2
2006	14,688	42	39.7	39.1 - 40.3
2007	14,116	40	37.4	36.8 - 38.0
2008	13,647	38.4	35.9	35.3 - 36.5
2009	13,128	36.7	34	33.4 - 34.6
2010	12,900	35.8	32.9	32.3 - 33.5
2011	12,214	33.6	30.7	30.2 - 31.2
2012	12,181	33.2	30.2	29.7 - 30.7
2013	11,090	29.9	26.8	26.3 - 27.3
2014	10,442	27.9	24.7	24.2 - 25.2
2015	11,511	30.5	26.8	26.3 - 27.3
Statewide -Annual Average	14,330	40.4	38.0	37.9 - 38.2

- · U or Unstable indicates that a rate is unstable, because it has a relative standard error > 30%, and should be interpreted with caution.
- 95% confidence intervals are calculated using the age adjusted rate when it is displayed in the report.
- · NS = Not shown. Statistics are suppressed to protect confidentiality when the number of cases is \leq 10.
- 95% confidence intervals represent the precision of the estimates shown. When zero cases are observed in a population, the upper 95% confidence limit is calculated using a method known as the "rule of three." This method calls for substituting a three for the number of cases when calculating the upper 95% confidence interval in order to produce a more accurate upper bound when the observed case count is zero.
- · Numbers and rates may differ slightly from those contained in other publications. These differences may be due to file updates, differences in calculating rates and updates in population estimates.
- · Difference in counts and rates in years prior to 2015 compared to 2015 could be a result of the change from ICD-9CM to ICD-10CM (coding of medical terminology and disease classification) that took place on October 1, 2015.
- · Data source: Center for Health Information and Analysis (CHIA)
- · Population estimates for 2000 and 2010 are from the U.S. Decennial Census. Inter-censal year estimates for 2001 through 2009 were created by linear interpolation of U.S. Decennial Census data. Post-censal year estimates for 2011 to present were created by the UMass Donahue Institute.

Age Adjusted Rates of Hospital Admission for Myocardial Infarction per 10,000 People Age 35+, for Males and Females Combined for 2010 - 2015 by Zip Code

Zip Code 02191						
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals	Statistical Difference	Stability
2010	NS	NS	NS	NS	NS	
2011	19	33.6	16.6	9.2 - 24.3	Statistically significantly lower	
2012	14	24.7	10.4	5.3 - 17.2	Statistically significantly lower	
2013	24	43.7	18.9	12 - 28.1	Not statistically significantly different	
2014	16	30.1	12.3	12 - 28.1	Not statistically significantly different	
2015	20	38.9	18.0	9.4 - 24.2	Statistically significantly lower	
Zip Code - 02191 Annual Average	NS	NS	NS	NS	NS	

State Wide								
Year	Case Count	Crude Rate	Age Adjusted Rate	Confidence Intervals				
2010	12,900	35.8	32.9	32.3 - 33.5				
2011	12,214	33.6	30.7	30.2 - 31.2				
2012	12,181	33.2	30.2	29.7 - 30.7				
2013	11,090	29.9	26.8	26.3 - 27.3				
2014	10,442	27.9	24.7	24.2 - 25.2				
2015	11,511	30.5	26.8	26.3 - 27.3				
Statewide -Annual Average	11,723	31.8	28.7	28.2 - 29.2				

- · U or Unstable indicates that a rate is unstable, because it has a relative standard error > 30%, and should be interpreted with caution.
- · 95% confidence intervals are calculated using the age adjusted rate when it is displayed in the report.
- · NS = Not shown. Statistics are suppressed to protect confidentiality when the number of cases is ≤10.
- 95% confidence intervals represent the precision of the estimates shown. When zero cases are observed in a population, the upper 95% confidence limit is calculated using a method known as the "rule of three." This method calls for substituting a three for the number of cases when calculating the upper 95% confidence interval in order to produce a more accurate upper bound when the observed case count is zero.
- · Numbers and rates may differ slightly from those contained in other publications. These differences may be due to file updates, differences in calculating rates and updates in population estimates.
- · Difference in counts and rates in years prior to 2015 compared to 2015 could be a result of the change from ICD-9CM to ICD-10CM (coding of medical terminology and disease classification) that took place on October 1, 2015.
- · Data source: Center for Health Information and Analysis (CHIA)
- · Population estimates for 2000 and 2010 are from the U.S. Decennial Census. Post-censal year estimates for 2011 to 2015 were created by the UMass Donahue Institute and used for statewide rates. Post-censal year estimates for 2011 to 2015 from the American Community Survey by the U.S. Census Bureau were used for zip code rates.

Braintree									
Year	Case Count	Total Live Singleton Term Births	Percent	Confidence Intervals	Statistical Difference	Stability			
2000	7	365	1.9	0.5 - 3.3	Not statistically significantly different	Unstable			
2001	8	360	2.2	0.7 - 3.7	Not statistically significantly different	Unstable			
2002	8	380	2.1	0.7 - 3.6	Not statistically significantly different	Unstable			
2003	6	370	1.6	0.3 - 2.9	Not statistically significantly different	Unstable			
2004	NS	337	NS	NS	NS	Unstable			
2005	NS	334	NS	NS	NS	Unstable			
2006	9	369	2.4	0.9 - 4.0	Not statistically significantly different	Unstable			
2007	9	372	2.4	0.9 - 4.0	Not statistically significantly different	Unstable			
2008	8	345	2.3	0.7 - 3.9	Not statistically significantly different	Unstable			
2009	5	373	1.3	0.2 - 2.5	Not statistically significantly different	Unstable			
2010	NS	326	NS	NS	NS	Unstable			
2011	5	356	1.4	0.2 - 2.6	Not statistically significantly different	Unstable			
2012	10	357	2.8	1.1 - 4.5	Not statistically significantly different	Unstable			
2013	7	362	1.9	0.5 - 3.4	Not statistically significantly different	Unstable			
2014	6	339	1.8	0.4 - 3.2	Not statistically significantly different	Unstable			
2015	9	373	2.4	0.9 - 4.0	Not statistically significantly different	Unstable			
Braintree- Annual Average	6.5	357.4	1.8	1.5 - 2.2	Not statistically significantly different				

Hingham								
Year	Case Count	Total Live Singleton Term Births	Percent	Confidence Intervals	Statistical Difference	Stability		
2000	NS	259	NS	NS	NS	Unstable		
2001	0	221	0.0	0 - 2.9	Not statistically significantly different	Unstable		
2002	6	247	2.4	0.5 - 4.4	Not statistically significantly different	Unstable		
2003	NS	238	NS	NS	NS	Unstable		
2004	NS	226	NS	NS	NS	Unstable		
2005	NS	226	NS	NS	NS	Unstable		
2006	NS	213	NS	NS	NS	Unstable		
2007	NS	198	NS	NS	NS	Unstable		
2008	0	207	0.0	0 - 3.0	Not statistically significantly different	Unstable		
2009	0	208	0.0	0 - 3.0	Not statistically significantly different	Unstable		
2010	0	177	0.0	0 - 3.6	Not statistically significantly different	Unstable		
2011	NS	212	NS	NS	NS	Unstable		
2012	NS	184	NS	NS	NS	Unstable		

Percent of Low Birthweight (<2500 grams) Live Term Sington Births for 2000 to 2015 by Community

2013	0	214	0.0	0 - 3.0	Not statistically significantly different	Unstable
2014	NS	175	NS	NS	NS	Unstable
2015	NS	206	NS	NS	NS	Unstable
Hingham- Annual Average	1.9	213.2	0.9	0.6 - 1.2	Statistically significantly lower	Unstable

Quincy	Quincy								
Year	Case Count	Total Live Singleton Term Births	Percent	Confidence Intervals	Statistical Difference	Stability			
2000	21	1,016	2.1	1.2 - 2.9	Not statistically significantly different				
2001	17	1,027	1.7	0.9 - 2.4	Not statistically significantly different				
2002	19	1,053	1.8	1.0 - 2.6	Not statistically significantly different				
2003	24	1,077	2.2	1.4 - 3.1	Not statistically significantly different				
2004	18	1,044	1.7	0.9 - 2.5	Not statistically significantly different				
2005	22	1,016	2.2	1.3 - 3.1	Not statistically significantly different				
2006	19	1,033	1.8	1.0 - 2.7	Not statistically significantly different				
2007	18	1,078	1.7	0.9 - 2.4	Not statistically significantly different				
2008	35	1,179	3.0	2.0 - 3.9	Not statistically significantly different				
2009	20	1,135	1.8	1.0 - 2.5	Not statistically significantly different				
2010	20	1,098	1.8	1.0 - 2.6	Not statistically significantly different				
2011	25	1,128	2.2	1.4 - 3.0	Not statistically significantly different				
2012	21	1,119	1.9	1.0 - 2.7	Not statistically significantly different				
2013	20	1,128	1.8	1.0 - 2.5	Not statistically significantly different				
2014	28	1,075	2.6	1.7 - 3.6	Not statistically significantly different				
2015	30	1,100	2.7	1.8 - 3.7	Not statistically significantly different				
Qunicy- Annual Average	22.3	1,082	2.1	1.9 - 2.3	Not statistically significantly different				

Weymouth	Weymouth									
Year	Case Count	Total Live Singleton Term Births	Percent	Confidence Intervals	Statistical Difference	Stability				
2000	16	667	2.4	1.2 - 3.6	Not statistically significantly different					
2001	9	619	1.5	0.5 - 2.4	Not statistically significantly different	Unstable				
2002	19	620	3.1	1.7 - 4.4	Not statistically significantly different					
2003	14	652	2.1	1.0 - 3.3	Not statistically significantly different					
2004	7	625	1.1	0.3 - 2.0	Not statistically significantly different	Unstable				
2005	7	618	1.1	0.3 - 2.0	Not statistically significantly different	Unstable				
2006	12	570	2.1	0.9 - 3.3	Not statistically significantly different					
2007	9	643	1.4	0.5 - 2.3	Not statistically significantly different	Unstable				

Percent of Low Birthweight (<2500 grams) Live Term Sington Births for 2000 to 2015 by Community

2008	8	586	1.4	0.4 - 2.3	Not statistically significantly different	Unstable
2009	7	563	1.2	0.3 - 2.2	Not statistically significantly different	Unstable
2010	11	571	1.9	0.8 - 3.0	Not statistically significantly different	Unstable
2011	14	596	2.3	1.1 - 3.6	Not statistically significantly different	
2012	14	561	2.5	1.2 - 3.8	Not statistically significantly different	
2013	9	554	1.6	0.6 - 2.7	Not statistically significantly different	Unstable
2014	13	591	2.2	1.0 - 3.4	Not statistically significantly different	
2015	12	580	2.1	0.9 - 3.2	Not statistically significantly different	
Weymouth- Annual Average	11.3	601	1.9	1.6 - 2.2	Not statistically significantly different	Unstable

Statewide				
Year	Case Count	Total Live Singleton Term Births	Percent	Confidence Intervals
2000	1,399	71,377	2.0	1.9 - 2.1
2001	1,502	72,311	2.1	2.0 - 2.2
2002	1,491	71,662	2.1	2.0 - 2.2
2003	1,403	70,930	2.0	1.9 - 2.1
2004	1,383	69,382	2.0	1.9 - 2.1
2005	1,430	67,988	2.1	2.0 - 2.2
2006	1,556	68,987	2.3	2.1 - 2.4
2007	1,561	69,362	2.3	2.1 - 2.4
2008	1,466	68,224	2.1	2.0 - 2.3
2009	1,398	66,443	2.1	2.0 - 2.2
2010	1,459	65,024	2.2	2.1 - 2.4
2011	1,407	63,370	2.2	2.1 - 2.3
2012	1,407	63,604	2.2	2.1 - 2.3
2013	1,344	63,691	2.1	2.0 - 2.2
2014	1,364	64,128	2.1	2.0 - 2.2
2015	1,392	64,090	2.2	2.0 - 2.3
Statewide - Annual Average	1,435	67,536	2.1	2.0 - 2.2

[·] Low birthweight means a singleton, term birth <2500 grams.

[•] Full term means a clinical estimate of gestational age >=37 weeks.

[·] U or Unstable indicates that a rate is unstable, because it has a relative standard error > 30%, and should be interpreted with caution.

[·] NS = Not shown. Statistics are suppressed to protect confidentiality when the number of cases is between 1 and 4 and the numerator is <1200

^{• 95%} confidence intervals represent the precision of the estimates shown. When zero cases are observed in a population, the upper 95% confidence limit is calculated using a method known as the "rule of three." This method calls for substituting a three for the number of cases when calculating the upper 95% confidence interval in order to produce a more accurate upper bound when the observed case count is zero.

[·] Numbers and rates may differ slightly from those contained in other publications. These differences may be due to file updates, differences in calculating rates and updates in population estimates.

[·] Data source: Massachusetts Registry of Vital Records and Statistics

		Total Live				
Year	Case Count	Singleton Term Births	Percent	Confidence Intervals	Statistical Difference	Stability
2000	NS	33	NS	NS	NS	Unstable
2001	NS	40	NS	NS	NS	Unstable
2002	0	28	0.0	0 - 22.2	Not statistically significantly different	Unstable
2003	NS	35	NS	NS	NS	Unstable
2004	0	37	0.0	0 - 16.9	Not statistically significantly different	Unstable
2005	0	29	0.0	0 - 21.4	Not statistically significantly different	Unstable
2006	0	24	0.0	0 - 25.7	Not statistically significantly different	Unstable
2007	NS	30	NS	NS	NS	Unstabl
2008	NS	44	NS	NS	NS	Unstabl
2009	NS	41	NS	NS	NS	Unstable
2010	0	22	0.0	0 - 28.0	Not statistically significantly different	Unstabl
2011	NS	39	NS	NS	NS	Unstabl
2012	0	25	0.0	0- 24.7	Not statistically significantly different	Unstabl
2013	0	34	0.0	0 - 18.4	Not statistically significantly different	Unstabl
2014	0	23	0.0	0 - 26.8	Not statistically significantly different	Unstabl
2015	NS	39	NS	NS	NS	Unstabl
1178.02- Annual	0.8	32.7	2.5	0 - 7.8	Not statistically significantly different	Unstabl

Average

32.7

2.5

0 - 7.8

Not statistically significantly different

CT 4179.01 (include	CT 4179.01 (includes Environmental Justice Areas)									
Year	Case Count	Total Live Singleton Term Births	Percent	Confidence Intervals	Statistical Difference	Stability				
2000	NS	69	NS	NS	NS	Unstable				
2001	NS	77	NS	NS	NS	Unstable				
2002	NS	85	NS	NS	NS	Unstable				
2003	5	76	6.6	1 - 12.2	Not statistically significantly different	Unstable				
2004	NS	79	NS	NS	NS	Unstable				
2005	NS	73	NS	NS	NS	Unstable				
2006	0	68	0.0	0 - 9.3	Not statistically significantly different	Unstable				
2007	NS	79	NS	NS	NS	Unstable				
2008	NS	81	NS	NS	NS	Unstable				
2009	NS	77	NS	NS	NS	Unstable				
2010	NS	75	NS	NS	NS	Unstable				
2011	NS	73	NS	NS	NS	Unstable				
2012	NS	64	NS	NS	NS	Unstable				
2013	6	81	7.4	1.7 - 13.1	Not statistically significantly different	Unstable				

Unstable

Percent of Low Birthweight (<2500 grams) Live Term Sington Births for 2010 to 2015 by Census Tract

2014	NS	64	NS	NS	NS	Unstable
2015	NS	74	NS	NS	NS	Unstable
CT 4179.01- Annual Average	2.0	74.7	2.7	0 - 6.3	Not statistically significantly different	Unstable

CT 4194	CT 4194									
Year	Case Count	Total Live Singleton Term Births	Percent	Confidence Intervals	Statistical Difference	Stability				
2000	0	38	0.0	0 - 16.5	Not statistically significantly different	Unstable				
2001	NS	44	NS	NS	NS	Unstable				
2002	0	41	0.0	0 - 15.3	Not statistically significantly different	Unstable				
2003	NS	38	NS	NS	NS	Unstable				
2004	NS	36	NS	NS	NS	Unstable				
2005	0	40	0.0	0 - 15.7	Not statistically significantly different	Unstable				
2006	0	32	0.0	0 - 19.5	Not statistically significantly different	Unstable				
2007	NS	50	NS	NS	NS	Unstable				
2008	0	30	0.0	0 - 20.7	Not statistically significantly different	Unstable				
2009	NS	36	NS	NS	NS	Unstable				
2010	NS	24	NS	NS	NS	Unstable				
2011	0	30	0.0	0 - 20.7	Not statistically significantly different	Unstable				
2012	NS	27	NS	NS	NS	Unstable				
2013	0	28	0.0	0 - 22.2	Not statistically significantly different	Unstable				
2014	0	25	0.0	0 - 24.7	Not statistically significantly different	Unstable				
2015	NS	35	NS	NS	NS	Unstable				
CT 4194- Annual Average	0.6	34.6	1.8	0 - 6.2	Not statistically significantly different	Unstable				

CT 4227								
Year	Case Count	Total Live Singleton Term Births	Percent	Confidence Intervals	Statistical Difference	Stability		
2000	0	42	0.0	0 - 15.0	Not statistically significantly different	Unstable		
2001	NS	32	NS	NS	NS	Unstable		
2002	NS	49	NS	NS	NS	Unstable		
2003	0	47	0.0	0 - 13.4	Not statistically significantly different	Unstable		
2004	NS	51	NS	NS	NS	Unstable		
2005	0	49	0.0	0 - 12.8	Not statistically significantly different	Unstable		
2006	NS	36	NS	NS	NS	Unstable		
2007	NS	47	NS	NS	NS	Unstable		
2008	NS	40	NS	NS	NS	Unstable		
2009	0	40	0.0	0 - 15.7	Not statistically significantly different	Unstable		

Percent of Low Birthweight (<2500 grams) Live Term Sington Births for 2010 to 2015 by Census Tract

2010	0	32	0.0	0 - 19.5	Not statistically significantly different	Unstable
2011	NS	48	NS	NS	NS	Unstable
2012	0	40	0.0	0- 15.7	Not statistically significantly different	Unstable
2013	0	35	0.0	0- 17.9	Not statistically significantly different	Unstable
2014	NS	43	NS	NS	NS	Unstable
2015	5	39	12.8	2.3 - 23.3	Not statistically significantly different	Unstable
CT 4227- Annual Average	0.9	41.9	2.2	0 - 6.7	Not statistically significantly different	Unstable

CT 4228										
Year	Case Count	Total Live Singleton Term Births	Percent	Confidence Intervals	Statistical Difference	Stability				
2000	0	48	0.0	0 - 13.1	Not statistically significantly different	Unstable				
2001	0	44	0.0	0 - 14.3	Not statistically significantly different	Unstable				
2002	NS	39	NS	NS	NS	Unstable				
2003	NS	42	NS	NS	NS	Unstable				
2004	0	38	0.0	0 - 16.5	Not statistically significantly different	Unstable				
2005	0	35	0.0	0 - 17.9	Not statistically significantly different	Unstable				
2006	0	33	0.0	0 - 18.9	Not statistically significantly different	Unstable				
2007	NS	26	NS	NS	NS	Unstable				
2008	NS	39	NS	NS	NS	Unstable				
2009	0	35	0.0	0 - 17.9	Not statistically significantly different	Unstable				
2010	NS	27	NS	NS	NS	Unstable				
2011	NS	38	NS	NS	NS	Unstable				
2012	NS	33	NS	NS	NS	Unstable				
2013	NS	29	NS	NS	NS	Unstable				
2014	0	27	0.0	0 - 23.0	Not statistically significantly different	Unstable				
2015	0	30	0.0	0 - 20.7	Not statistically significantly different	Unstable				
CT 4228- Annual Average	0.8	35.2	2.1	0 - 6.9	Not statistically significantly different	Unstable				

Statewide										
Year	Case Count	Total Live Singleton Term Births	Percent	Confidence Intervals						
2000	1399	71377	2.0	1.9 - 2.1						
2001	1502	72311	2.1	2.0 - 2.2						
2002	1491	71662	2.1	2.0 - 2.2						
2003	1403	70930	2.0	1.9 - 2.1						
2004	1383	69382	2.0	1.9 - 2.1						
2005	1430	67988	2.1	2.0 - 2.2						

Percent of Low Birthweight (<2500 grams) Live Term Sington Births for 2010 to 2015 by Census Tract

2006	1556	68987	2.3	2.1 - 2.4
2007	1561	69362	2.3	2.1 - 2.4
2008	1466	68224	2.1	2.0 - 2.3
2009	1398	66443	2.1	2.0 - 2.2
2010	1,459	65,024	2.2	2.1 - 2.4
2011	1,407	63,370	2.2	2.1 - 2.3
2012	1,407	63,604	2.2	2.1 - 2.3
2013	1,344	63,691	2.1	2.0 - 2.2
2014	1,364	64,128	2.1	2.0 - 2.2
2015	1,392	64,090	2.2	2.0 - 2.3
Statewide - Annual Average	1,435	67,536	2.1	2.0 - 2.2

[·] Low birthweight means a singleton, term birth <2500 grams.

[•] Full term means a clinical estimate of gestational age >=37 weeks.

[·] U or Unstable indicates that a rate is unstable, because it has a relative standard error > 30%, and should be interpreted with caution.

[·] NS = Not shown. Statistics are suppressed to protect confidentiality when the number of cases is between 1 and 4 and the numerator is <1200

^{• 95%} confidence intervals represent the precision of the estimates shown. When zero cases are observed in a population, the upper 95% confidence limit is calculated using a method known as the "rule of three." This method calls for substituting a three for the number of cases when calculating the upper 95% confidence interval in order to produce a more accurate upper bound when the observed case count is zero.

[·] Numbers and rates may differ slightly from those contained in other publications. These differences may be due to file updates, differences in calculating rates and updates in population estimates.

[·] Data source: Massachusetts Registry of Vital Records and Statistics

Statistical Significance of Cancer Incidence Compared to Statewide During 2006 to 2010

	Brair	ntree	Hing	ham	Qui	ncy	Weymouth	
	Males	Females	Males	Females	Males	Females	Males	Females
Bladder, Urinary	No Difference	No Difference	Lower	No Difference				
Brain and Other Nervous System	No Difference							
Breast	No Difference							
Cervix Uteri	N/A	No Difference						
Colon/Rectum	No Difference	No Difference	No Difference	No Difference	Higher	No Difference	No Difference	No Difference
Esophagus	No Difference							
Hodgkin Lymphoma	No Difference							
Kidney & Renal Pelvis	No Difference							
Larynx	No Difference							
Leukemia	No Difference							
Liver & Intrahepatic Bile Duct	No Difference	No Difference	No Difference	No Difference	Higher	No Difference	No Difference	No Difference
Lung & Bronchus	No Difference	Higher	Lower	No Difference	No Difference	Higher	No Difference	Higher
Melanoma of Skin	No Difference	Higher	Higher	Higher	No Difference	No Difference	No Difference	No Difference
Multiple Myeloma	No Difference							
Non-Hodgkin Lymphoma	No Difference	No Difference	No Difference	Higher	No Difference	No Difference	No Difference	No Difference
Oral Cavity & Pharynx	No Difference	No Difference	No Difference	No Difference	Higher	No Difference	No Difference	No Difference
Ovary	N/A	No Difference						
Pancreas	No Difference							
Prostate	No Difference	N/A	No Difference	N/A	Lower	N/A	Lower	N/A
Stomach	No Difference							
Testis	No Difference							
Thyroid	No Difference							
Uteri Corpus and Uterus	N/A	No Difference						
All Sites/Types	Higher	Higher	Lower	No Difference				

Statistical Significance of Cancer Incidence Compared to Statewide During 2011 to 2015

	Brair	ntree	Hing	ham	Qui	ncy	Weyn	nouth
	Males	Females	Males	Females	Males	Females	Males	Females
Bladder, Urinary	No Difference	Higher						
Brain and Other Nervous System	No Difference							
Breast	No Difference							
Cervix Uteri	N/A	No Difference	N/A	No Difference	N/A	Higher	N/A	No Difference
Colon/Rectum	No Difference	Higher	No Difference	No Difference	Higher	No Difference	No Difference	No Difference
Esophagus	No Difference	No Difference	No Difference	Higher	No Difference	No Difference	No Difference	No Difference
Hodgkin Lymphoma	No Difference							
Kidney & Renal Pelvis	No Difference							
Larynx	No Difference	Higher	No Difference					
Leukemia	Lower	No Difference	No Difference	No Difference	Lower	No Difference	No Difference	No Difference
Liver & Intrahepatic Bile Duct	No Difference	No Difference	No Difference	No Difference	Higher	No Difference	No Difference	No Difference
Lung & Bronchus	No Difference	No Difference	Lower	No Difference	Higher	Higher	Higher	No Difference
Melanoma of Skin	No Difference	No Difference	Higher	Higher	No Difference	No Difference	No Difference	Higher
Multiple Myeloma	No Difference							
Non-Hodgkin Lymphoma	No Difference							
Oral Cavity & Pharynx	No Difference	No Difference	No Difference	No Difference	Higher	No Difference	No Difference	No Difference
Ovary	N/A	No Difference						
Pancreas	No Difference							
Prostate	No Difference	N/A						
Stomach	No Difference							
Testis	No Difference							
Thyroid	No Difference							
Uteri Corpus and Uterus	N/A	No Difference						
All Sites/Types	No Difference	No Difference	No Difference	No Difference	Higher	Higher	No Difference	No Difference

Provisional Data: The 2011-2015 Massachusetts cancer incidence data for cities and towns are provisional and subject to revision until they have been thoroughly reviewed for final approval.

Cancer Incidence Observed and Expected Case Counts, with Standardized Incidence Ratios, 2006-2010

Braintree	<u>Obs</u>	Exp	SIR	95% CI		Obs	Exp	SIR	95% C
Bladder, Ur					Melanoma of S				
Male	52	40.1	129.8	(96.9-170.2)	Male	34	25.5	133.4	(92.4-186.4
Female	20	17	117.8	(71.9-182.0)	Female	33	22.6		(100.5-205.1
	Other Nervous			(* 232 2323)	Multiple Myelo				(======
Male	10	7.3	136.4	(65.3-250.8)	Male	8	6.8	117.1	(50.4-230.8
Female	10	7.1	140.5	(67.3-258.4)	Female	9	6.4	140.4	(64.1-266.6
Breast		7.2	2.0.0	(67.10 2001.)	Non-Hodgkin L	vmphoma	U. .		(0.112.200.0
 Male	0	1.2	nc	(nc-nc)	Male	23	22.5	102.1	(64.7-153.2
Female	163	164.3	99.2	(84.6-115.7)	Female	20	21.7	92	(56.1-142.0
Cervix Ute	ri				Oral Cavity &	Pharynx			(
					Male	18	15.8	114	(67.6-180.3
Female	6	5.9	102.5	(37.4-223.0)	Female	9	8.5	105.4	(48.1-200.1
Colon / Red	ctum_			,	Ovary				
Male	53	45.8	115.8	(86.8-151.5)					
Female	66	55.3	119.3	(92.3-151.8)	Female	18	15.3	117.5	(69.6-185.6
Esophagus				,	<u>Pancreas</u>				
Male	16	10.4	153.3	(87.6-249.0)	Male	6	12.9	46.5	(17.0-101.3
Female	3	3.6	nc	(nc-nc)	Female	17	16.8	101	(58.8-161.7
Hodgkin Lymphoma			,	<u>Prostate</u>					
Male	2	2.9	nc	(nc-nc)	Male	149	149.5	99.7	(84.3-117.0
Female	1	2.8	nc	(nc-nc)					,
Kidney & R	enal Pelvis			, ,	Stomach				
Male	21	20.8	100.8	(62.4-154.1)	Male	16	9.2	173.8	(99.3-282.3
Female	16	13.9	114.9	(65.6-186.6)	Female	9	6.7	134.2	(61.2-254.7
Larynx					Testis				
Male	2	6	nc	(nc-nc)	Male	5	4.4	114.8	(37.0-268.0
Female	4	2	nc	(nc-nc)					
<u>Leukemia</u>					Thyroid				
Male	15	14.7	102.3	(57.2-168.7)	Male	8	8.3	96.3	(41.5-189.8
Female	11	12.8	86	(42.9-153.9)	Female	38	27.9	136.2	(96.3-186.9
Liver and I	ntrahepatic B	ile Ducts			Uteri Corpus a	nd Uterus,	NOS		
Male	15	11.8	127.2	(71.2-209.9)					
Female	4	4.8	nc	(nc-nc)	Female	42	37.5	112	(80.7-151.4
Lung and B	ronchus				All Sites / Typ	es			
Male	84	73.3	114.6	(91.4-141.9)	Male	597	529.5	112.7	(103.9-122.2
Female	107	86.7	123.4	(101.1-149.1)	Female	659	587.8	112.1	(103.7-121.0
	· Obs =	observed ca	se count; Ex	κp = expected cas	e count;				
	· SIR =	standardized	incidence ra	atio ((Obs / Exp) 2	X 100);				
	• 95% (CI = 95% cor	fidence inte	rvals, a measure o	of the statistical sign	nificance of th	ne SIR;		
	· Shadir	ng indicates tl	ne statistical	significance of the	e SIR at 95% level o	of probability	;		
	· nc = 7	he SIR and 9	5% CI were	not calculated wh	nen Obs < 5;				

Cancer Incidence Observed and Expected Case Counts, with Standardized Incidence Ratios, 2006-2010

Hingham	Obs	Exp	SIR	95% CI		Obs	Exp	SIR	95% C
Bladder, Ur		ryh	SIK	<u>95 /0 C1</u>	Melanoma of		FVh	SIR	93-70 C.
Male	11	28.7	38.4	(19.1-68.7)	Male	46	17.8	257 0	(188.8-344.0
Female	10	10.8	92.2	(44.1-169.6)	Female	27	14.3		(124.7-275.5)
Brain and O	-		72.2	(11.1 105.0)	Multiple Myel		11.5	105.5	(121.7 275.5)
Male	0	<u> 5 </u>	nc	(nc-nc)	Male	3	4.8	nc	(nc-nc
Female	4	4.6	nc	(nc-nc)	Female	4	4.1	nc	(nc-nc
Breast	7	4.0	IIC	(IIC-IIC)	Non-Hodgkin	•		TIC	(IIC-IIC
Male	0	0.9	nc	(nc-nc)	Male	13	15.8	82.4	(43.9-141.0
Female	104	106.3	97.9	(80.0-118.6)	Female	24	13.9	172.9	(110.7-257.3)
Cervix Uter	-	100.5	37.3	(80.0-118.0)	Oral Cavity &		13.9	1/2.9	(110.7-237.3)
CEI VIX OLEI	<u>.</u>				Male	7	11 2	62	(24 0 127 7)
Female	1	3.7	nc	(nc nc)	Female	8	11.3 5.5	145.3	(24.8-127.7)
Colon / Rec		3.7	nc	(nc-nc)	Ovary	0	5.5	145.3	(62.6-286.4)
Male		22.7	0F 7	(FC 0 122 0)	Ovary				
Female	28 39	32.7 35.8	85.7 109.1	(56.9-123.8)	Female	11	9.9	111.3	/FF F 100 2
Esophagus	39	35.0	109.1	(77.6-149.1)	Pancreas	11	9.9	111.3	(55.5-199.2)
Male	6	7.5	90	(20.2.174.2)		6	0.2	64.0	(22 7 141 4)
Female		7.5	80	(29.2-174.2)	Male	-	9.2	64.9	(23.7-141.4)
Hodgkin Ly	2	2.3	nc	(nc-nc)	Female	12	10.8	111.5	(57.5-194.7)
	-	1.0		(<u>Prostate</u>	114	107.0	105.7	(07.2.127.0
Male	1	1.8	nc	(nc-nc)	Male	114	107.9	105.7	(87.2-127.0)
Female	2	1.6	nc	(nc-nc)	Chamaaah				
Kidney & R		447	74.0	(27.2.122.0)	<u>Stomach</u>				, ,
Male	11	14.7	74.8	(37.3-133.9)	Male	3	6.6	nc	(nc-nc)
Female	13	8.9	146.5	(77.9-250.5)	Female	1	4.3	nc	(nc-nc)
<u>Larynx</u>		4.5			<u>Testis</u>		2.5		, ,
Male	3	4.3	nc	(nc-nc)	Male	3	2.5	nc	(nc-nc)
Female	0	1.3	nc	(nc-nc)					
<u>Leukemia</u>				(<u>Thyroid</u>	_			(
Male .	10	10.4		(45.9-176.2)	Male	7	5.6		(49.8-256.2)
Female	9	8.2	109.6	(50.0-208.1)	Female	25	17.4	144	(93.1-212.5)
<u>Liver and I</u>	-			(12 2 122 2)	Uteri Corpus a	ana Uterus,	NOS		
Male .	5	8.4	59.8	(19.3-139.5)					(22 2 4 2 2 2
Female	. 1	3.1	nc	(nc-nc)	Female	25	24.3	102.9	(66.6-152.0)
Lung and B					All Sites / Typ				
Male	35	51.8	67.5	(47.0-93.9)	Male	336	376.5	89.2	(79.9-99.3)
Female	48	54.6	87.8	(64.8-116.5)	Female	402	376.5	106.8	(96.6-117.7)
				cp = expected cas					
				atio ((Obs / Exp)	-				
					of the statistical sign				
		-		-	e SIR at 95% level o	of probability;	:		
	· nc =	The SIR and	95% CT were	not calculated wi	nen Obs < 5				

Quincy									
	<u>Obs</u>	Exp	SIR	95% CI		<u>Obs</u>	<u>Exp</u>	SIR	95% CI
Bladder, Ur	<u>inary</u>				Melanoma of	<u>Skin</u>			
Male	89	96.2	92.6	(74.3-113.9)	Male	60	64.2	93.4	(71.3-120.2)
Female	42	40.5	103.7	(74.8-140.2)	Female	65	57.1	113.9	(87.9-145.1)
Brain and C	ther Nervous	System			Multiple Myelo	<u>oma</u>			
Male	16	18.6	86	(49.1-139.6)	Male	16	16.7	95.8	(54.7-155.7)
Female	10	17.6	56.9	(27.2-104.6)	Female	10	15.3	65.4	(31.3-120.2)
Breast					Non-Hodgkin I	Lymphoma	<u>.</u>		
Male	2	3	nc	(nc-nc)	Male	45	56	80.3	(58.6-107.4)
Female	360	397.8	90.5	(81.4-100.3)	Female	65	52.6	123.6	(95.4-157.5)
Cervix Uter	<u>i</u>				Oral Cavity &	Pharynx			
					Male	61	39.9	152.7	(116.8-196.2)
Female	19	15.2	124.9	(75.1-195.0)	Female	23	20.7	111	(70.3-166.5)
Colon / Red	tum_				Ovary				
Male	136	111.7	121.8	(102.2-144.0)					
Female	151	132.8	113.7	(96.3-133.4)	Female	41	37.4	109.8	(78.8-148.9)
Esophagus					Pancreas				
Male	32	25.6	125	(85.5-176.5)	Male	32	31.2	102.6	(70.2-144.8)
Female	13	8.5	153.5	(81.7-262.6)	Female	40	40.1	99.7	(71.2-135.8)
Hodgkin Ly	mphoma .				<u>Prostate</u>				
Male	6	8.7	69	(25.2-150.1)	Male	322	366.9	87.8	(78.4-97.9)
Female	7	7.6	92.2	(36.9-190.0)					
Kidney & R	enal Pelvis				Stomach				
Male	59	51.9	113.8	(86.6-146.8)	Male	30	22.4	133.9	(90.3-191.1)
Female	33	33.6	98.4	(67.7-138.1)	Female	14	16.1	86.9	(47.5-145.9)
Larynx					<u>Testis</u>				
Male	19	14.8	128.4	(77.3-200.5)	Male	9	15	59.9	(27.3-113.7)
Female	6	4.9	122.8	(44.8-267.3)					
Leukemia					Thyroid				
Male	28	35.7	78.5	(52.2-113.5)	Male	14	22.3	62.7	(34.2-105.2)
Female	33	30.9	106.8	(73.5-150.0)	Female	80	74	108.1	(85.7-134.6)
	ntrahepatic B			()	Uteri Corpus a				(0011 =0110)
Male	59	29.6	199.7	(152.0-257.5)					
Female	12	11.4	105.5	(54.5-184.3)	Female	100	90.6	110.3	(89.8-134.2)
Lung and B				(0.10 20 110)	All Sites / Typ				(0010 10 110)
Male	200	175.7	113.8	(98.6-130.7)	Male	1335	1304.8	102.3	(96.9-108.0)
Female	250	206		(106.8-137.4)	Female	1495	1426.7	104.8	(99.5-110.2)
· criaic	250	200		(_00.0 20/11)	· ciraic	_ 1,55	2 .2017	200	(55.5 110.2)
	· Ohs =	observed cas	se count: F	kp = expected cas	e count:				
				atio ((Obs / Exp) >					
					of the statistical signi	ficance of th	e STR		
					e SIR at 95% level of				
				e not calculated wh		probability,			
	IIC — I	THE STR ATTU 9	70 CI WEIG	. not calculated WI	lc11 ∪D3 \ J,				

Weymout	h								
	<u>Obs</u>	<u>Exp</u>	<u>SIR</u>	95% CI		<u>Obs</u>	<u>Exp</u>	SIR	95% CI
Bladder, Ur	<u>inary</u>				Melanoma of	<u>Skin</u>			
Male	54	61.9	87.2	(65.5-113.7)	Male	35	40.1	87.3	(60.8-121.5)
Female	28	23.6	118.6	(78.8-171.5)	Female	38	33.6	113	(80.0-155.2)
Brain and C	ther Nervous	s System			Multiple Myel	<u>oma</u>			
Male	16	11.6	138.2	(78.9-224.4)	Male	12	10.7	112	(57.8-195.7)
Female	14	10.5	133.6	(73.0-224.2)	Female	11	9	121.9	(60.8-218.2)
<u>Breast</u>					Non-Hodgkin	Lymphoma			
Male	1	1.9	nc	(nc-nc)	Male	45	35.4	127	(92.6-170.0)
Female	235	243.4	96.5	(84.6-109.7)	Female	32	31	103.2	(70.6-145.7)
Cervix Uter	<u>i</u>				Oral Cavity &	Pharynx			
					Male	34	25.1	135.3	(93.7-189.1)
Female	12	9.1	132.4	(68.3-231.2)	Female	13	12.4	104.8	(55.7-179.2)
Colon / Rec	<u>ctum</u>				Ovary				
Male	69	72.2	95.6	(74.4-121.0)					
Female	88	76.9	114.4	(91.7-140.9)	Female	26	22.4	115.8	(75.6-169.7)
Esophagus					<u>Pancreas</u>				
Male	22	16.2	135.9	(85.1-205.7)	Male	21	19.9	105.3	(65.2-161.0)
Female	2	5	nc	(nc-nc)	Female	23	23.3	98.9	(62.6-148.3)
Hodgkin Ly	mphoma_				<u>Prostate</u>	:			
Male	7	4.9	144.1	(57.7-296.9)	Male	196	231.8	84.5	(73.1-97.2)
Female	3	4.2	nc	(nc-nc)					
Kidney & R	enal Pelvis				Stomach				
Male	38	32.5	116.9	(82.7-160.5)	Male	13	14.4	90.3	(48.0-154.4)
Female	26	20.2	128.5	(83.9-188.3)	Female	4	9.2	nc	(nc-nc)
<u>Larynx</u>					<u>Testis</u>				
Male	10	9.4	106.5	(51.0-195.8)	Male	5	7.7	64.7	(20.8-150.9)
Female	3	3	nc	(nc-nc)					
<u>Leukemia</u>					Thyroid				
Male	21	22.9	91.7	(56.8-140.2)	Male	15	13.3	112.6	(63.0-185.8)
Female	14	18.1	77.2	(42.1-129.5)	Female	52	43.8	118.7	(88.7-155.7)
Liver and I	ntrahepatic E	Bile Ducts			Uteri Corpus a	and Uterus,	NOS		
Male	17	18.8	90.3	(52.6-144.6)					
Female	6	6.8	88.3	(32.3-192.3)	Female	46	55.9	82.3	(60.2-109.7)
Lung and B	ronchus				All Sites / Typ	<u>es</u>			
Male	118	112	105.4	(87.2-126.2)	Male	813	826.5	98.4	(91.7-105.4)
Female	154	123	125.2	(106.2-146.7)	Female	892	852.2	104.7	(97.9-111.8)
	· Obs =	observed cas	se count; Ex	xp = expected case count	;				
	· SIR =	standardized	incidence r	atio ((Obs / Exp) X 100);					
	. 95%	CI = 95% con	fidence inte	rvals, a measure of the s	atistical significance	of the SIR;			
	· Shadii	ng indicates th	ne statistica	significance of the SIR at	95% level of proba	ability;			
	· nc = -	The SIR and 9	5% CI were	not calculated when Obs	< 5;				

Braintree	Obs	Exp	SIR	95% CI			Obs	Exp	SIR	95% C
Bladder, Urina		<u>rvh</u>	SIK	<u> </u>	Mela	noma of S		FVD	JIK	<u> </u>
Male	41	40.5	101.3	(72.7-137.5)	- 1010	Male	26	25.6	101.5	(66.3-148.8
Female	17	17.3	98.5	(57.4-157.8)		Female	23	22.5	101.3	(64.9-153.7
Brain and Othe			30.3	(37.4-137.0)		iple Myelo		22.3	102.4	(07.3-133.7
Male	5	7.5	66.5	(21.4-155.2)	Fraic	Male	7	8.2	85.6	(34.3-176.4
Female	7	7.2	96.8	(38.8-199.5)		Female	3	7.8		(nc-nc
Breast		7.2	90.0	(30.0-199.3)			ymphoma	7.0	nc	(110-110
Male	0	1.4	nc	(nc-nc)	14011-	Male	21	22.7	92.6	(57.3-141.6
Female	194	175.3	110.6	(95.6-127.4)		Female	20	22.9	87.4	(53.4-135.0
Cervix Uteri	194	175.5	110.0	(93.0-127.4)		Cavity & F	-	22.9	07.4	(33.4-135.0
CEI VIX OCEII					Orai	Male	20	18.4	108.6	(66 2 167 7
Female	6	5.7	105.7	(20 6 220 0)		Female	10	9.8	101.6	(66.3-167.7
Colon / Rectur		5.7	105.7	(38.6-230.0)			10	9.0	101.6	(48.6-186.8
Male	<u>11</u> 46	41.8	109.9	(80.5-146.6)	<u>Ovar</u>	<u> </u>				
	64					Cample	1.0	1	104.2	/F0 C 1C0 F
Female Esophagus	04	49.2	130.1	(100.2-166.2)		Female	16	15.3	104.3	(59.6-169.5
	0	0.0	00.7	(41, 4, 172, 2)	Panc		1.4	14.7	05.2	/F2 0 1F0 7
Male	9	9.9	90.7	(41.4-172.2)		Male	14	14.7	95.2	(52.0-159.7
Female	6	3.3	182.3	(66.6-396.8)		Female	19	18.2	104.6	(62.9-163.3
Hodgkin Lymp		2.0	207.7	(75.0.452.0)	Pros		100		105.0	(07.0.405.0
Male	6	2.9	207.7	(75.8-452.0)		Male	120	114.1	105.2	(87.2-125.8
Female	4	2.6	nc	(nc-nc)						
Kidney & Rena		22.5	444.5	(72.0.464.2)	Ston			0.4	06.4	(42.0.402.5
Male	25	22.5	111.3	(72.0-164.3)		Male	9	9.4	96.1	(43.9-182.5
Female	12	14.4	83.6	(43.2-146.1)		Female	7	7	100.5	(40.2-207.0
<u>Larynx</u>					Test	_				
Male	4	5.7	nc	(nc-nc)		Male	6	5.5	109.8	(40.1-239.1
Female	4	2	nc	(nc-nc)						
<u>Leukemia</u>	_			,	Thyr					
Male	8	16.2	49.5	(21.3-97.4)		Male	10	10.1	99.4	(47.6-182.8
Female	17	13.7	124.1	(72.3-198.8)		Female	29	31.2	93	(62.2-133.5
Liver and Intra					Uter	i Corpus a	nd Uterus,	<u>NOS</u>	/	
Male	16	13.8	116.2	(66.4-188.7)						
Female	4	5.5	nc	(nc-nc)		Female	48	38.7	123.9	(91.4-164.3
Lung and Bron					All Si	ites / Type				
Male	66	69.5	95	(73.5-120.9)		Male	500	501.4	99.7	(91.2-108.9
Female	88	86.9	101.3	(81.3-124.8)		Female	651	608	107.1	(99.0-115.6
•				p = expected c						
•				atio ((Obs / Exp	* .					
•				rvals, a measur						
•		*		significance of		el of probab	oility;			
	nc = Tl	he SIR and 9	5% CI were	not calculated	Obs < 5;					

Hingham									
	<u>Obs</u>	<u>Exp</u>	SIR	95% CI		<u>Obs</u>	<u>Exp</u>	SIR	<u>95% CI</u>
<u>Bladder, Ur</u>	<u>inary</u>				Melanoma of S	<u>skin</u>			
Male	32	31.5	101.6	(69.5-143.4)	Male	34	19.1	178.4	(123.5-249.3)
Female	12	11.8	101.6	(52.4-177.5)	Female	31	14.8	208.9	(141.9-296.5)
Brain and C	ther Nervous	s System			Multiple Myelo	<u>ma</u>			
Male	8	5.2	154	(66.3-303.6)	Male	7	6.1	115.5	(46.3-238.0)
Female	5	4.7	105.7	(34.1-246.7)	Female	5	5.4	92.4	(29.8-215.6)
<u>Breast</u>					Non-Hodgkin L	ymphoma			
Male	1	1	nc	(nc-nc)	Male	14	16.7	83.6	(45.7-140.3)
Female	108	119.5	90.4	(74.1-109.1)	Female	21	15.5	135.5	(83.8-207.1)
Cervix Uter	<u>i</u>				Oral Cavity & P	harynx			
					Male	14	13.3	105.4	(57.6-176.9)
Female	3	3.6	nc	(nc-nc)	Female	6	6.8	88.8	(32.4-193.3)
Colon / Rec	<u>ctum</u>				Ovary				
Male	35	31.8	110.2	(76.7-153.2)					
Female	36	33.8	106.6	(74.6-147.5)	Female	9	10.5	85.8	(39.2-163.0)
Esophagus					<u>Pancreas</u>				
Male	2	7.3	nc	(nc-nc)	Male	9	11.2	80.4	(36.7-152.7)
Female	7	2.3	311.1	(124.6-640.9)	Female	14	12.6	111.4	(60.8-186.8)
Hodgkin Ly	mphoma_				<u>Prostate</u>				
Male	2	1.7	nc	(nc-nc)	Male	93	83.8	110.9	(89.5-135.9)
Female	1	1.4	nc	(nc-nc)					
Kidney & R	enal Pelvis				Stomach	·			
Male	16	16.3	97.9	(55.9-159.0)	Male	12	7.1	168.6	(87.0-294.5)
Female	7	9.8	71.5	(28.6-147.3)	Female	1	4.7	nc	(nc-nc)
Larynx					<u>Testis</u>				
Male	2	4.2	nc	(nc-nc)	Male	6	3.1	193.1	(70.5-420.2)
Female	0	1.4	nc	(nc-nc)					
<u>Leukemia</u>					Thyroid	7			
Male	14	12	116.6	(63.7-195.6)	Male	4	6.8	nc	(nc-nc)
Female	14	9.3	151.3	(82.6-253.9)	Female	22	19.4	113.3	(71.0-171.6)
Liver and I	ntrahepatic E	Bile Ducts			Uteri Corpus a	nd Uterus,	NOS		
Male	2	9.9	nc	(nc-nc)					
Female	1	3.8	nc	(nc-nc)	Female	19	26.9	70.6	(42.5-110.2)
Lung and B	ronchus				All Sites / Type	es			,
Male	28	52.9	52.9	(35.2-76.5)	Male	368	372.3	98.8	(89.0-109.5)
Female	46	59.6	77.2	(56.5-103.0)	Female	395	412.8	95.7	(86.5-105.6)
				-					•
	· Obs =	observed ca	se count; Ex	kp = expected case	count;				
				atio ((Obs / Exp) X 1	· ·				
					the statistical significance	of the SIR:			
					SIR at 95% level of probab				
				e not calculated when		-,,			

Quincy							_		
	<u>Obs</u>	<u>Exp</u>	SIR	<u>95% CI</u>		<u>Obs</u>	<u>Exp</u>	SIR	95% CI
Bladder, Ur					Melanoma of S				
Male	100	95.9	104.3	(84.9-126.9)	Male	57	62.1	91.8	(69.6-119.0)
Female	35	36	97.2	(67.7-135.2)	Female	55	50	110	(82.9-143.2)
Brain and O	ther Nervous	System System			Multiple Myelo	<u>oma</u>			
Male	19	18.8	100.8	(60.7-157.4)	Male	14	19.7	71.1	(38.9-119.4)
Female	17	16.2	105	(61.1-168.1)	Female	14	16.6	84.5	(46.1-141.7)
<u>Breast</u>					Non-Hodgkin L	<u>ymphoma</u>	1		
Male	5	3.4	149.1	(48.1-348.0)	Male	50	55.1	90.7	(67.3-119.5)
Female	400	389.7	102.6	(92.8-113.2)	Female	57	49	116.4	(88.2-150.9)
Cervix Uter	<u>i</u>				Oral Cavity & I	<u>Pharynx</u>			
					Male	61	45.2	135	(103.3-173.4)
Female	21	12.8	164.7	(101.9-251.8)	Female	29	21.6	134.2	(89.9-192.7)
Colon / Rec	tum_				<u>Ovary</u>				
Male	125	100.6	124.3	(103.5-148.1)					
Female	103	102.4	100.6	(82.1-122.0)	Female	34	34.3	99	(68.6-138.4)
Esophagus					<u>Pancreas</u>				
Male	23	24	95.9	(60.8-143.9)	Male	30	35.4	84.9	(57.2-121.1)
Female	8	6.9	115.7	(49.8-227.9)	Female	29	37.4	77.5	(51.9-111.3)
Hodgkin Ly	mphoma				Prostate				(
Male	10	8.2	122.5	(58.7-225.4)	Male	257	281.8	91.2	(80.4-103.1)
Female	10	7.1	140.5	(67.3-258.4)					
Kidney & Re				(67.15 256.1)	Stomach				
Male	53	55.1	96.2	(72.1-125.9)	Male	30	22.5	133.5	(90.0-190.5)
Female	34	31.7	107.1	(74.2-149.7)	Female	17	14.3	118.6	(69.0-189.9)
Larynx	31	31.7	107.11	(7 1.2 1 15.7)	Testis	17	11.5	110.0	(03.0 103.3)
Male	18	14	128.4	(76.1-202.9)	Male	17	16.2	105.2	(61.3-168.5)
Female	4	4.4	nc	(nc-nc)	Male	17	10.2	103.2	(01.5-100.5)
<u>Leukemia</u>	Т	т.т	TIC	(ne-ne)	Thyroid				
Male	23	39.2	59.6	(37.1-88.0)	Male	36	25.7	140.2	(98.2-194.2)
Female	30	29.2	102.6	(69.2-146.5)	Female	65	74.2	87.5	(67.6-111.6)
	ntrahepatic B		102.0	(09.2-140.3)	Uteri Corpus a			07.3	(07.0-111.0)
Male	57	33.6	160.6	(128.4-219.7)	Oteri Corpus u	ina Oteras,	<u>, 1105</u>		
Female	17	11.9	142.5	(83.0-228.2)	Female	87	89	07.0	(70.2.120.C)
Lung and B		11.9	142.5	(63.0-226.2)	All Sites / Type		09	97.8	(78.3-120.6)
_		167.4	141 6	(124 1 160 0)			1222	107.7	(102 0 112 7)
Male	237	167.4		(124.1-160.8)	Male	1316	1222		(102.0-113.7)
Female	241	188.2	128	(112.4-145.3)	Female	1406	1330.3	105./	(100.2-111.4)
		, .							
			•	xp = expected case co					
				atio ((Obs / Exp) X 10					
					he statistical significance				
		-		-	R at 95% level of probal	bility;			
	• nc = 7	The SIR and 9	5% CI were	not calculated when	Obs < 5;				

Weymout	h									
	<u>Obs</u>	<u>Exp</u>	SIR	95% CI			<u>Obs</u>	Exp	SIR	95% CI
<u>Bladder, Ur</u>	<u>inary</u>					Melanoma o	f Skin			
Male	68	59.9	113.5	(88.1-143.9)		Male	43	38.7	111	(80.3-149.5)
Female	37	25.1	147.3	(103.7-203.0)		Female	53	34.3	154.7	(115.9-202.4)
Brain and O	ther Nervou	s System				Multiple Mye	eloma			
Male	9	11.4	78.8	(36.0-149.6)		Male	12	12.4	97	(50.1-169.5)
Female	10	11	91.1	(43.6-167.5)		Female	6	11.8	51	(18.6-110.9)
<u>Breast</u>						Non-Hodgkir	<u> Lymphoma</u>	1		
Male	0	2.1	nc	(nc-nc)		Male	40	34.2	116.9	(83.5-159.2)
Female	290	279.3	103.8	(92.2-116.5)		Female	29	34.4	84.3	(56.4-121.0)
Cervix Uter	<u>i</u>	71				Oral Cavity 8	& Pharynx			
						Male	27	28.4	94.9	(62.5-138.1)
Female	1	8.8	nc	(nc-nc)		Female	23	15.2	150.9	(95.6-226.4)
Colon / Rec	tum_					<u>Ovary</u>				
Male	70	62.5	112.1	(87.3-141.6)						
Female	68	70.3	96.7	(75.1-122.6)		Female	22	23.9	91.9	(57.6-139.1)
Esophagus						<u>Pancreas</u>				
Male	19	15.1	125.7	(75.7-196.4)		Male	18	22.2	81.2	(48.1-128.3)
Female	8	5	161.3	(69.4-317.8)		Female	22	26.1	84.1	(52.7-127.4)
Hodgkin Ly	mphoma_					<u>Prostate</u>				
Male	6	4.5	133.9	(48.9-291.5)		Male	162	178.7	90.6	(77.2-105.7)
Female	2	4.1	nc	(nc-nc)						
Kidney & Re	enal Pelvis			, ,		Stomach				
Male	36	34.7	103.7	(72.6-143.5)		Male	14	14.1	99.5	(54.4-167.0)
Female	28	22.4	125.2	(83.2-180.9)		Female	7	10	70.3	(28.2-144.9)
Larynx						<u>Testis</u>				
Male	17	8.8	192.4	(112.0-308.0)		Male	10	8.5	117.6	(56.3-216.4)
Female	3	3.1	nc	(nc-nc)						,
Leukemia				, ,		Thyroid				
Male	18	24.2	74.4	(44.1-117.7)		Male	14	15.6	89.6	(48.9-150.4)
Female	14	19.8	70.7	(38.6-118.6)		Female	44	49.4	89	(64.7-119.5)
Liver and In	ntrahepatic l	Bile Ducts				Uteri Corpus	and Uterus	, NOS		
Male	20	21.2	94.5	(57.7-145.9)						
Female	9	8.4	107	(48.8-203.1)		Female	71	64.9	109.5	(85.5-138.1)
Lung and B	ronchus					All Sites / Ty	pes			,
Male	134	106.1	126.3	(105.9-149.6)		Male	813	764	106.4	(99.2-114.0)
Female	154	133.1	115.7	(98.2-135.5)		Female	959	934.4	102.6	(96.2-109.3)
				, ,						,
	· Obs =	= observed ca	ase count; Ex	kp = expected c	ase count;					
				atio ((Obs / Exp						
				ervals, a measure		istical significand	ce of the SIR:			
				I significance of t						
				not calculated						

CT 4178.02 ((includes E	nvironme	ntal Jus	tice	CT 4227				
Areas)					C1 4227				
	<u>Obs</u>	<u>Exp</u>	SIR	95% CI		<u>Obs</u>	<u>Exp</u>	SIR	95% CI
Acute Myeloid	<u>Leukemia</u>				Acute Myeloid	<u>Leukemia</u>			
Male	1	0.4	nc	(nc-nc)	Male	0	0.5	nc	(nc-nc)
Female	0	0.3	nc	(nc-nc)	Female	0	0.4	nc	(nc-nc)
Lung and Bron	<u>ichus</u>				Lung and Bron	<u>ichus</u>			
Male	14	6.8	205.8	(112.4-345.4)	Male	13	8.4	154.3	(82.1-263.9)
Female	8	6.9	115.4	(49.7-227.5)	Female	7	8.6	81.5	(32.7-167.9)
Nasal/Nasoph	<u>arynx</u>				Nasal/Nasoph	arynx_			
Male	0	0.2	nc	(nc-nc)	Male	0	0.2	nc	(nc-nc)
Female	0	0.1	nc	(nc-nc)	Female	0	0.1	nc	(nc-nc)
CT 4179.01 ((includes E	nvironme	ntal Jus	tice	CT 4228				
Areas)									
	<u>Obs</u>	<u>Exp</u>	SIR	95% CI		<u>Obs</u>	<u>Exp</u>	SIR	95% CI
Acute Myeloid	<u>Leukemia</u>				Acute Myeloid	<u>Leukemia</u>			
Male	1	0.7	nc	(nc-nc)	Male	0	0.6	nc	(nc-nc)
Female	1	0.7	nc	(nc-nc)	Female	0	0.5	nc	(nc-nc)
Lung and Bron	<u>ichus</u>				Lung and Bror	<u>ichus</u>			
Male	15	12.1	123.5	(69.1-203.7)	Male	11	10.2	108.1	(53.9-193.5)
Female	15	16.1	93.0	(52.0-153.5)	Female	16	10.5	152.2	(86.9-247.2)
Nasal/Nasoph	<u>arynx</u>				Nasal/Nasoph	arynx			
Male	0	0.3	nc	(nc-nc)	Male	0	0.3	nc	(nc-nc)
Female	0	0.2	nc	(nc-nc)	Female	0	0.1	nc	(nc-nc)
CT 4194									
	<u>Obs</u>	<u>Exp</u>	SIR	95% CI					
Acute Myeloid	<u>Leukemia</u>								
Male	1	0.3	nc	(nc-nc)					
Female	0	0.3	nc	(nc-nc)					
Lung and Bron	<u>ichus</u>								
Male	10	5.8	173.1	(82.9-318.4)					
Female	7	7.0	99.3	(39.8-204.6)					
Nasal/Nasoph									
Male	0	0.2	nc	(nc-nc)					
Female	0	0.1	nc	(nc-nc)					
•	Obs = o	bserved cas	e count; E	<pre>xp = expected case count;</pre>					
•				atio ((Obs / Exp) X 100);					
				ervals, a measure of the sta					
•	Shading	indicates the	e statistica	I significance of the SIR at	95% level of proba	bility;			
	nc = The	e SIR and 95	% CI were	e not calculated when Obs	< 5;				

nciudes Ei	nvironm	ental Jus	tice		CT 4227				
	_				J. 7227		_		
	<u>Exp</u>	SIR	<u>95% CI</u>					SIR	95% CI
		nc			1 1			nc	(nc-nc)
_	0.4	nc	(nc-nc)		1 1 1	_	0.4	nc	(nc-nc)
					Lung and B	<u>ronchus</u>			
			, ,						(35.6-182.9)
	6.7	119.1	(51.3-234.7)		1 1 1	_	8.4	94.9	(40.9-187.0)
		nc	` ,					nc	(nc-nc
0	0.1	nc	(nc-nc)		Female	0	0.1	nc	(nc-nc
			_						
includes Ei	nvironm	ental Jus	tice		CT 4228				
	<u>Exp</u>	SIR	95% CI					SIR	95% CI
							_		
		nc						nc	(nc-nc)
	1.1	nc	(nc-nc)			_	0.5	nc	(nc-nc)
					-				
					1 1				(29.6-152.5)
	21.7	119.8	(78.3-175.6)			_	10.5	76.3	(32.9-150.4)
									(nc-nc
0	0.2	nc	(nc-nc)		Female	0	0.1	nc	(nc-nc)
-	_								
	Exp	<u>51R</u>	95% CI						
	0.4		(
			, ,						
	0.4	nc	(nc-nc)						
	E 4	111 6	(40 7 242 0)						
	7.1	112.3	(40.4-221.4)						
	0.2	no	(no no)						
1	0.1	TIC	(IIC-IIC)						
Obs – ob	ncarved of	se count: E	yn – eynectad a	a counti					
					istical significa	nce of the ST	Q •		
Silaulilg			e not calculated			obability;			
	Obs Leukemia 2	Obs Exp	Obs	Leukemia	Obs Exp SIR 95% CI Leukemia 2 0.4 nc (nc-nc) 1 0.4 nc (nc-nc) :hus 13 6.6 197.7 (105.2-338.1) 8 6.7 119.1 (51.3-234.7) rynx 3 0.2 nc (nc-nc) 0 0.1 nc (nc-nc) includes Environmental Justice 1 0.1 nc (nc-nc) 1 0.9 nc (nc-nc) 1 1.1 nc (nc-nc) 1 1.1 nc (nc-nc) 1 1.1 nc (nc-nc) 1 1.1 nc (nc-nc) 1 1.1 nc (nc-nc) 1 1.1 nc (nc-nc) 1 1.1 nc (nc-nc) 1 1.1 nc (nc-nc) 1 1.1 nc nc (nc-nc) 1 nc nc nc-nc) 1 nc nc-nc) 1 nc	Cl 4227 Cl 4227 Cl 4227 Cl 4227 Cl 4228 Cl 4227 Cl 4227 Cl 4228 Cl 4228	Obs Exp SIR 95% CI Obs Exp CI Acute Myeloid Leukema Acute Myeloid Leukema Octobrate Octobrat	Clause C	Cl 4227 Obs Exp SIR 95% CT Obs Exp SIR Control Male 0 0.5

Appendix C: MassDEP Release and Clean Up Reporting for Focus Area

RTN	City/Town	Release Address	Site Name Location Aid	Reporting Category	Notification Date	Compliance Status	Date	Phase	RAO Class	Chemical Type
4- 3010013	BRAINTREE	385 QUINCY AVE	NEAR GUARD SHACK	TWO HR	10/03/1993	RAO	11/26/1993		A1	Hazardous Material
4- 3011233	BRAINTREE	385 QUINCY AVE	TANK A8 IN TANK FARM	TWO HR	07/07/1994	RAO	09/06/1994		A1	Oil
4- 3010584	BRAINTREE	385 QUINCY AVE	CITGO TERMINAL	TWO HR	02/14/1994	RAO	11/07/1994		A1	Oil
4- 3012574	BRAINTREE	385 QUINCY AVE	CLEAN HARBORS OF BRAINTREE INC	TWO HR	06/14/1995	RAO	08/01/1995		A1	Hazardous Material
4- 3012656	BRAINTREE	385 QUINCY AVE	CLEAN HARBORS OF BRAINTREE INC	TWO HR	07/06/1995	RAO	09/05/1995		A1	Hazardous Material
4- 3013024	BRAINTREE	385 QUINCY AVE	TANK FARM	TWO HR	10/10/1995	RAO	12/08/1995		A1	Hazardous Material
4- 3012630	BRAINTREE	HILL AVE	ON SIDE OF ROAD	TWO HR	06/27/1995	RAO	03/11/1996			
4- 3013372	BRAINTREE	385 QUINCY AVE	NO LOCATION AID	TWO HR	01/26/1996	RAO	03/21/1996		A1	Hazardous Material
4- 3013502	BRAINTREE	385 QUINCY AVE	CLEAN HARBORS OF BRAINTREE	TWO HR	02/29/1996	RAO	04/22/1996		A1	Hazardous Material
4- 3013443	BRAINTREE	385 QUINCY AVE	NO LOCATION AID	TWO HR	02/12/1996	ADEQUATE REG	06/11/1996			Oil
4- 3013677	BRAINTREE	385 QUINCY AVE	CLEAN HARBORS OF BRAINTREE INC	TWO HR	04/18/1996	RAO	06/20/1996		Al	Oil and Hazardous Material
4- 3013855	BRAINTREE	385 QUINCY AVE	CLEAN HARBORS	TWO HR	06/05/1996	RAO	07/29/1996		Al	Oil
4- 3000529	BRAINTREE	385 QUINCY AVE	CLEAN HARBORS INC	NONE	01/15/1987	ADEQUATE REG	02/12/1997			
4- 3015193	BRAINTREE	175 WEST HOWARD ST	MOOSE POST	72 HR	06/11/1997	DPS	01/12/1998			Oil
4- 3016771	BRAINTREE	385 QUINCY AVE	CLEAN HARBORS	TWO HR	05/07/1998	RAO	06/16/1998		Al	Hazardous Material
4- 3016998	BRAINTREE	385 QUINCY AVE	BLDG 6	TWO HR	07/02/1998	ADEQUATE REG	06/11/1999			Hazardous Material
4- 3019525	BRAINTREE	1 HILL AVE	CLEAN HARBORS OF BRAINTREE INC	TWO HR	05/08/2000	RAO	07/14/2000		A2	Oil
4- 3019811	BRAINTREE	1 HILL AVE	CLEAN HARBORS OF BRAINTREE INC	TWO HR	08/08/2000	RAO	10/11/2000		A2	
4- 3019171	BRAINTREE	385 QUINCY AVE	CITGO PETROLEUM TERMINAL	TWO HR	01/15/2000	RTN CLOSED	12/18/2000			Oil
4-	BRAINTREE	100 POTTER	BRAINTREE ELECTRIC LIGHT	72 HR	12/21/1999	RTN CLOSED	12/20/2000			Oil

RTN	City/Town	Release Address	Site Name Location Aid	Reporting Category	Notification Date	Compliance Status	Date	Phase	RAO Class	Chemical Type
3019109		DR								
4- 3019846	BRAINTREE	385 QUINCY AVE	NO LOCATION AID	TWO HR	08/16/2000	RTN CLOSED	02/14/2001			Oil
4- 3019750	BRAINTREE	1 HILL AVE	NO LOCATION AID	TWO HR	07/21/2000	ADEQUATE REG	04/12/2001			Oil
4- 3020619	BRAINTREE	1 HILL AVE	NO LOCATION AID	TWO HR	04/23/2001	RAO	06/22/2001		A1	Oil
4- 3020975	BRAINTREE	1 HILL AVE	NO LOCATION AID	TWO HR	10/05/2001	RAO	10/05/2001		A1	Oil
4- 3021436	BRAINTREE	1 HILL AVE	CLEAN HARBORS SOUTH OF TANK FARM	TWO HR	01/29/2002	RAO	03/29/2002		A1	Oil and Hazardous Material
4- 3021753	BRAINTREE	1 HILL AVE	WEST OF TANK FARM	TWO HR	05/12/2002	RAO	07/18/2002		A1	Hazardous Material
4- 3022150	BRAINTREE	1 HILL AVE	NO LOCATION AID	TWO HR	09/27/2002	RAO	11/14/2002		A1	Oil and Hazardous Material
4- 3021612	BRAINTREE	100 POTTER DR	BRAINTREE ELECTRIC LIGHT	TWO HR	03/26/2002	RTN CLOSED	12/11/2002			Oil
4- 3022335	BRAINTREE	HILL AVE	REAR OF 503 QUINCY AVE	TWO HR	11/15/2002	RAO	01/21/2003		A2	
4- 3023939	BRAINTREE	385 QUINCY AVE	ON SHORE BY DOCK	TWO HR	06/08/2004	RTN CLOSED	06/07/2005			Oil
4- 3025137	BRAINTREE	385 QUINCY AVE	CITGO PETROLEUM BULK STORAGE TERMINAL	TWO HR	08/14/2005	RAO	12/05/2005		A1	Oil
4- 0021812	BRAINTREE	385 QUINCY AVE	CITGO STORAGE TERMINAL	TWO HR	03/03/2009	RAO	05/05/2009		A1	Oil
4- 0025889	BRAINTREE	385 QUINCY AVE.	CITGO PETROLEUM TERMINAL	TWO HR	11/30/2015	PSNC	01/26/2016		PN	
4- 0026018	BRAINTREE	385 QUINCY AVENUE	CITGO BRAINTREE	TWO HR	03/02/2016	PSNC	04/25/2016		PN	
4- 3022364	BRAINTREE	441R QUINCY AVE	RESIDENCE	TWO HR	12/03/2002	RAO	07/22/2008	PHASE II	B1	Oil
4- 3002059	BRAINTREE	100 POTTER DR	BRAINTREE ELEC POTTER STA	NONE	04/05/1989	RTN CLOSED	08/07/2002	PHASE III		
4- 3025628	BRAINTREE	35 LANCASTER RD	NO LOCATION AID	120 DY	02/01/2006	RAO	03/06/2009	PHASE III	В1	Oil and Hazardous Material
4- 3000260	BRAINTREE	385 QUINCY AVE	CITGO BRAINTREE TERMINAL	NONE	01/15/1987	REMOPS	11/17/2008	PHASE V		
3- 0010363	QUINCY	450 QUINCY AVE	INTERSECTION WITH HOWARD ST	TWO HR	12/28/1993	RAO	02/02/1994		A1	Oil
3- 001 <i>5</i> 782	QUINCY	780 WASHINGTON ST	TWIN RIVERS	TWO HR	12/04/1997	RAO	01/30/1998		A1	Oil
3- 0015304	QUINCY	780 WASHINGTON	TWIN RIVERS	TWO HR	07/16/1997	RTN CLOSED	07/31/1998			Oil

RTN	City/Town	Release Address	Site Name Location Aid	Reporting Category	Notification Date	Compliance Status	Date	Phase	RAO Class	Chemical Type
		ST								
3- 0010266	QUINCY	97 EAST HOWARD ST	FMR GENERAL DYNAMICS SHIPYARD	TWO HR	11/23/1993	RTN CLOSED	04/19/1999			Oil
3- 0019527	QUINCY	115 EAST HOWARD ST	QUINCY SHIPYARD BLDG 57 BRAINTREE	TWO HR	05/08/2000	RAO	09/22/2000		A1	Oil and Hazardous Material
3- 0021469	QUINCY	740 WASHINGTON ST	TRT TERMINAL	TWO HR	02/07/2002	RAO	06/14/2002		A1	Hazardous Material
3- 0022334	QUINCY	EAST HOWARD ST	QUINCY SHIPYARD	TWO HR	11/21/2002	RAO	01/29/2003		A2	Oil
3- 0023109	QUINCY	740 WASHINGTON ST	VEGETABLE OIL SPILL TRT TERMINAL	TWO HR	08/20/2003	RAO	10/20/2003		A1	Oil
3- 0024539	QUINCY	780 WASHINGTON ST	COCONUT FATTY ACID RELEASE	TWO HR	01/06/2005	RAO	03/07/2005		A1	
3- 0024839	QUINCY	780 WASHINGTON ST	ANIMAL FAT RELEASE	TWO HR	05/09/2005	RAO	07/05/2005		A1	
3- 0025087	QUINCY	780 WASHINGTON ST	COCONUT FATTY ACID RELEASE	TWO HR	07/31/2005	RAO	10/06/2005		A2	
3- 0025135	QUINCY	780 WASHINGTON ST	VEGETABLE OIL/ANIMAL FAT RELEASE	TWO HR	08/14/2005	RAO	10/20/2005		A1	
3- 0025274	QUINCY	740 WASHINGTON ST	LOADING RACKS	TWO HR	09/28/2005	RAO	12/05/2005		A1	Hazardous Material
3- 0025920	QUINCY	458 QUINCY AVE	NO LOCATION AID	120 DY	05/22/2006	URAM	05/31/2006			Oil
3- 0026010	QUINCY	451 QUINCY AVE	GASOLINE STATION	TWO HR	06/21/2006	RAO	08/28/2006		A1	Oil
3- 0025565	QUINCY	115 EAST HOWARD ST	FORMER QUINCY SHIPYARD	TWO HR	01/11/2006	DPS	10/27/2006			Oil
3- 0026184	QUINCY	780 WASHINGTON ST	TWIN RIVERS TECHNOLOGIES	TWO HR	08/30/2006	RAO	10/30/2006		A1	
3- 0027214	QUINCY	780 WASHINGTON ST	TWIN RIVERS TECHNOLOGIES	120 DY	10/24/2007	RAO	11/01/2007		B1	Hazardous Material
3- 0027213	QUINCY	780 WASHINGTON ST	TWIN RIVERS TECHNOLOGIES	120 DY	10/24/2007	RAO	11/01/2007		B1	Hazardous Material

RTN	City/Town	Release Address	Site Name Location Aid	Reporting Category	Notification Date	Compliance Status	Date	Phase	RAO Class	Chemical Type
3- 0022272	QUINCY	115 EAST HOWARD ST	FORMER FORE RIVER SHIPYARD	120 DY	11/01/2002	RAO	02/05/2008		A2	Hazardous Material
3- 0027228	QUINCY	780 WASHINGTON ST	TWIN RIVERS TECHNOLOGIES	120 DY	11/01/2007	RAO	03/07/2008		B2	Hazardous Material
3- 0027451	QUINCY	740 WASHINGTON ST	SPRAGUE OIL	TWO HR	01/18/2008	RAO	03/12/2008		A1	Oil
3- 0027642	QUINCY	64 BROADWAY	NO LOCATION AID	TWO HR	04/22/2008	RAO	09/25/2008		A1	Oil
3- 0027955	QUINCY	450 QUINCY AVE	TOWN FAIR TIRE	120 DY	09/05/2008	RAO	11/28/2008		A2	Hazardous Material
3- 0028360	QUINCY	780 WASHINGTON ST	TWIN RIVERS TECHNOLOGIES WEST TANK FARM	TWO HR	03/08/2009	RAO	04/10/2009		A2	
3- 0028668	QUINCY	740 WASHINGTON ST	INDUSTRIAL PROPERTY	TWO HR	08/12/2009	RAO	09/24/2009		A1	Oil
3- 0028828	QUINCY	97 EAST HOWARD ST	QUINCY SHIPYARD	TWO HR	10/24/2009	RAO	02/26/2010		A1	Oil
3- 0029025	QUINCY	740 WASHINGTON ST	TERMINAL RACK	TWO HR	01/21/2010	RAO	03/12/2010		A1	Oil
3- 0029623	QUINCY	703 WASHINGTON STREET	HARBOR EXPRESS COMMUTER BOAT DOCK	TWO HR	11/04/2010	RAO	11/30/2010		A1	Oil
3- 0029686	QUINCY	780 WASHINGTON STREET	NO LOCATION AID	120 DY	12/06/2010	URAM	05/29/2012			Hazardous Material
3- 0031493	QUINCY	150 E HOWARD STREET	RDA DOCK	TWO HR	05/01/2013	RAO	06/19/2013		A1	Oil
3- 0031766	QUINCY	EAST HOWARD STREET	BARGE ADELAIDE @ FORE RIVER SHIPYARD	TWO HR	09/22/2013	RAO	01/14/2014		A1	
3- 0032718	QUINCY	780 WASHINGTON STREET	NO LOCATION AID	TWO HR	02/06/2015	PSNC	06/05/2015		PN	Oil
3- 0033360	QUINCY	740 WASHINGTON STREET	NO LOCATION AID	TWO HR	01/13/2016	PSNC	02/29/2016		PN	Oil
3- 0033719	QUINCY	479 WASHINGTON STREET	COMMERCIAL PROPERTY	72 HR	07/22/2016	PSNC	09/21/2016		PN	Oil and Hazardous Material

RTN	City/Town	Release Address	Site Name Location Aid	Reporting Category	Notification Date	Compliance Status	Date	Phase	RAO Class	Chemical Type
3- 0033944	QUINCY	479 WASHINGTON STREET	FORMER PRIME HYUNDAI	120 DY	11/30/2016	PSNC	05/02/2017		PN	Hazardous Material
3- 0035093	QUINCY	780 WASHINGTON STREET	TWIN RIVERS TECHNOLOGIES MANUFACTURING	TWO HR	07/27/2018	UNCLASSIFIED	07/27/2018			Oil
3- 0012920	QUINCY	780 WASHINGTON ST	WEYMOUTH FORE RIVER	TWO HR	09/13/1995	RTN CLOSED	07/31/1998	PHASE II		Oil
3- 0019092	QUINCY	450 QUINCY AVE	NO LOCATION AID	120 DY	12/20/1999	RAO	04/12/2004	PHASE II	B1	Oil and Hazardous Material
3- 0029469	QUINCY	140 DOANE STREET	QUINCY FIRE DEPARTMENT BUILDING	TWO HR	08/26/2010	RAO	08/27/2012	PHASE II	A2	Oil
3- 0032600	QUINCY	18 SWAN ROAD	RESIDENCE	TWO HR	11/09/2014	PSNC	07/25/2016	PHASE II	PN	Oil
3- 0024568	QUINCY	EAST HOWARD ST	DRYDOCKS 11 AND 12	120 DY	01/17/2005	RAO	06/23/2009	PHASE III	В2	Hazardous Material
3- 0019676	QUINCY	451 QUINCY AVE	NO LOCATION AID	120 DY	10/16/2000	RAO	09/15/2008	PHASE IV	A3	Oil
3- 0000536	QUINCY	97 EAST HOWARD ST	GENERAL DYNAMICS FMR	NONE	01/15/1987	RAO	04/30/2004	PHASE V	C1	
3- 0003804	QUINCY	780 WASHINGTON ST	PROCTER & GAMBLE MFG CO	NONE	05/19/1992	REMOPS	07/31/2006	PHASE V		Oil
4- 3003941	WEYMOUTH	69 NORTON ST	YACHT CLUB FACILITY	NONE	04/15/1992	WCSPRM	05/05/1994			Oil
4- 3010923	WEYMOUTH	252 BRIDGE ST	NO LOCATION AID	120 DY	04/22/1994	RAO	05/13/1994		A3	Oil
4- 3011475	WEYMOUTH	230 BRIDGE ST	AUTO PALACE	TWO HR	08/06/1994	RAO	10/05/1994			Oil
4- 3012715	WEYMOUTH	296-300 BRIDGE ST	ROUTE 3A	120 DY	07/21/1995	RAO	08/16/1996		A3	Oil
4- 3003609	WEYMOUTH	5 BRIDGE ST	CH SPRAGUE & SON CO	NONE	01/24/1989	RAO	07/17/1997		A2	Oil
4- 3015472	WEYMOUTH	BRIDGE ST	MA ELEC	TWO HR	08/26/1997	RAO	10/24/1997		A1	Oil
4- 3016744	WEYMOUTH	BRIDGE ST	NO LOCATION AID	120 DY	05/01/1998	URAM	05/01/1998			Oil
4- 3016796	WEYMOUTH	BRIDGE ST	BECO	72 HR	05/14/1998	RTN CLOSED	12/02/1998			Oil
4- 3015814	WEYMOUTH	BRIDGE ST	FMR ELECTRIC GENERATING FACILITY	120 DY	12/04/1997	RAO	12/18/1998		A2	Oil
4- 3018816	WEYMOUTH	1 BRIDGE ST	FMR GENERATING FACILITY	TWO HR	09/30/1999	RTN CLOSED	12/08/1999			Hazardous Material

RTN	City/Town	Release	Site Name Location Aid	Reporting	Notification	Compliance	Date	Phase	RAO	Chemical Type
		Address		Category	Date	Status	_		Class	
4- 3019358	WEYMOUTH	1 BRIDGE ST	FMR GENERATING FACILITY	TWO HR	03/13/2000	RTN CLOSED	05/12/2000			Oil
4- 3020775	WEYMOUTH	1 BRIDGE ST	FRM EDGAR STATION	TWO HR	06/12/2001	RAO	08/10/2001		A1	
4- 3021150	WEYMOUTH	10 BRIDGE ST	NO LOCATION AID	120 DY	10/11/2001	URAM	10/18/2001			Oil
4- 3019012	WEYMOUTH	1 BRIDGE ST	NO LOCATION AID	TWO HR	11/29/1999	RAO	10/22/2001		A2	Oil and Hazardous Material
4- 3021295	WEYMOUTH	7 RIVERBANK RD	EAST OF MORELL ST	TWO HR	12/01/2001	RAO	05/31/2002		A2	Oil
4- 3021901	WEYMOUTH	EVANS ST	POLE NO 10	TWO HR	06/28/2002	RAO	08/26/2002		A1	Oil
4- 3022694	WEYMOUTH	1 BRIDGE ST	42-14-24N 70-57-53W	TWO HR	03/22/2003	RAO	09/02/2003		A2	Oil
4- 0026243	WEYMOUTH	6 AND 50 BRIDGE STREET	CALPINE FORE RIVER	72 HR	07/29/2016	RTN CLOSED	07/28/2017			
4- 3010636	WEYMOUTH	22 FAIRLAWN RD	PROGRESS ST	TWO HR	03/01/1994	RAO	08/16/1995	PHASE II	A1	Oil
4- 3015813	WEYMOUTH	BRIDGE ST	FMR ELECTRIC GENRTR STATION #2 TRANSFER	120 DY	12/04/1997	RAO	09/29/2000	PHASE II	A2	Oil
4- 3018690	WEYMOUTH	1 BRIDGE ST	SITHE FMR GENERATING FACILITY	TWO HR	08/27/1999	RAO	12/03/2001	PHASE II	A3	Oil and Hazardous Material
4- 0026230	WEYMOUTH	6 & 50 BRIDGE STREET	6 & 50 BRIDGE STREET	120 DY	07/29/2016	TIER 2	07/28/2017	PHASE II		
4- 3004395	WEYMOUTH	291 BRIDGE ST	3A AUTO SERVICES	NONE	05/05/1992	RAO	12/12/2002	PHASE III	A2	Oil
4- 3004720	WEYMOUTH	5 BRIDGE ST	EDGAR STATION PIPELINE	NONE	10/01/1993	RAO	05/26/2000	PHASE IV	A2	

Appendix D. MassDEP Documentation of Air Monitoring Canisters and Station





Quincy - Clement O'Brien Tower

Braintree – Braintree Electric and Light Department





Weymouth 1 – Fore River Energy Center

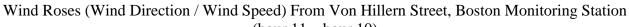
Weymouth 2 – Enbridge Site

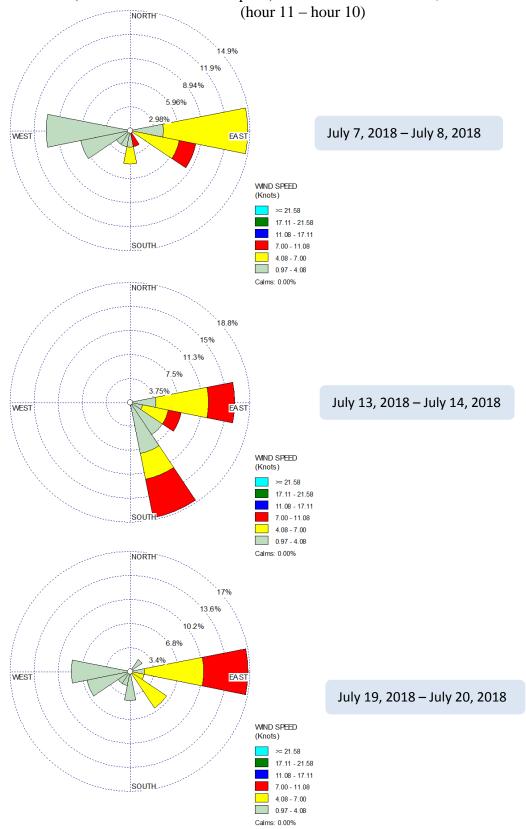


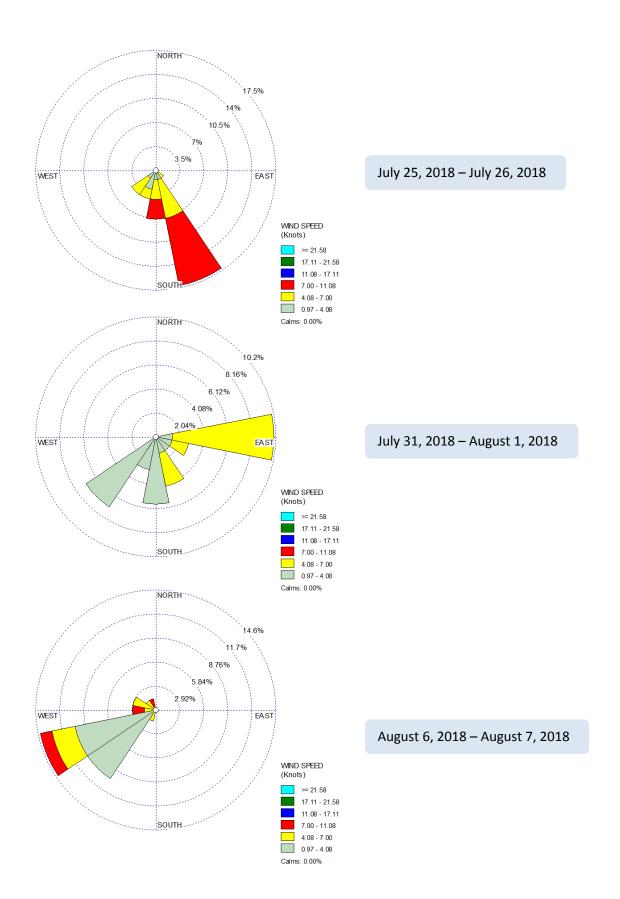


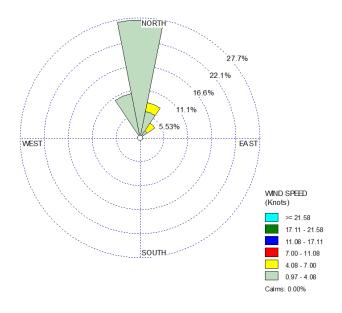
Hingham – MWRA Pumping Station/Stodder's Neck

Mini-station at Weymouth MWRA Pump Station



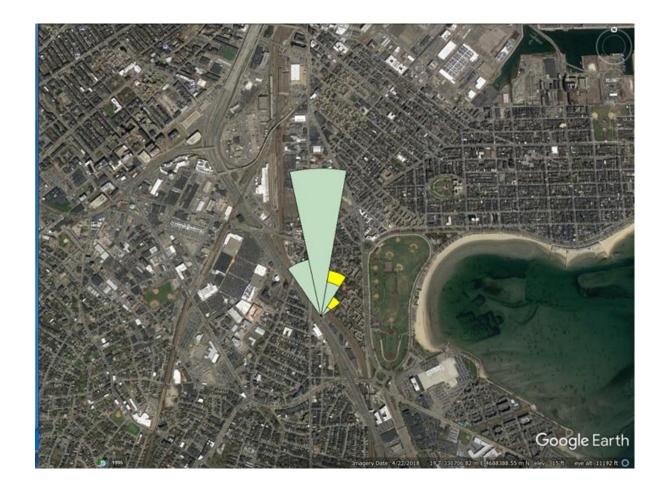






August 12, 2018 – August 13, 2018

Location of Von Hillern monitor station shown below with wind rose for August 12 - 13 superimposed.

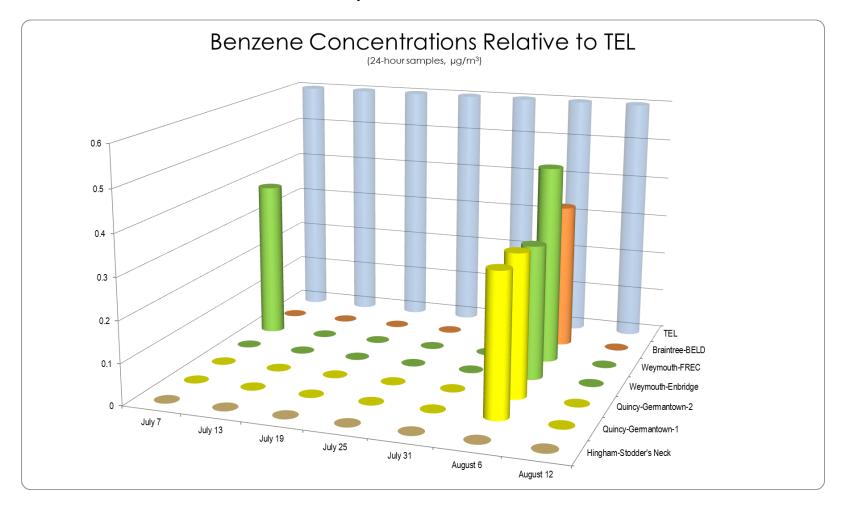


Wind Direction / Wind Speed / Maximum Temperature From Von Hillern Street, Boston Monitoring Station (hour 11 – hour 10)

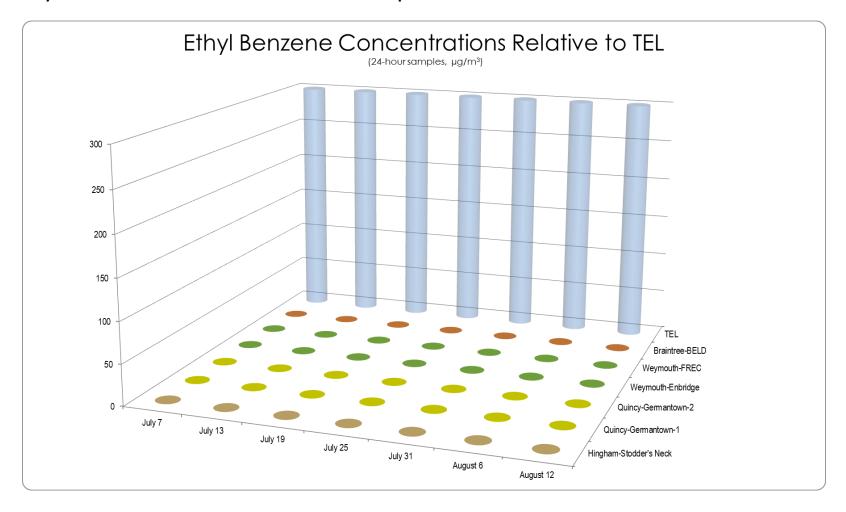
July 7 - 8, 2018	July 13 – 14, 2018
Wind Direction / Wind Speed (hours) E = 9	Wind Direction / Wind Speed (hours) E = 9 > 5 mph = 15 SE = 15 < 5 mph = 9 Max Temp July 13: 77 F
W = 4	Max Temp July 14: 75 F
Max Temp July 7: 73 F Max Temp July 8: 81 F July 19 – 20, 2018	July 25 – 26, 2018
July 19 – 20, 2018	July 25 – 20, 2018
Wind Direction / Wind Speed (hours) NE = 1	$\frac{\text{Wind Direction / Wind Speed (hours)}}{\text{SE} = 14} > 10 \text{ mph} = 3}$ $S = 4 \qquad 5 - 10 \text{ mph} = 17}$ $SW = 6 \qquad < 5 \text{ mph} = 4$
SW = 5 W = 4	Max Temp July 25: 84 F Max Temp July 26: 84 F
Max Temp July 19: 75 F Max Temp July 20: 89 F July 31 – August 1, 2018	August 6 – 7, 2018
Wind Direction / Wind Speed (hours) E = 7 > 5 mph = 9 SE = 6 < 5 mph = 15	Wind Direction / Wind Speed (hours) SW = 18 > 5 mph = 11 W = 1 < 5 mph = 13
Max Temp July 31: 82 F Max Temp August 1: 82 F	Max Temp August 6: 95 F Max Temp August 7: 95 F
August 12 – 13, 2018	
<u>Wind Direction / Wind Speed (hours)</u> NW = 4	
Max Temp August 12: 73 F Max Temp August 13: 73 F	

Appendix E. Figures of MassDEP 2018 Air Monitoring Results

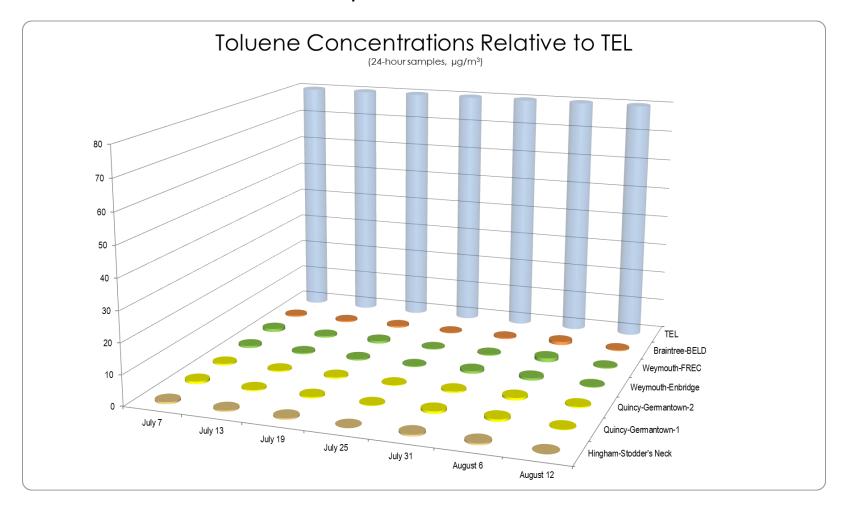
Benzene Concentrations from Canister Samples relative to TEL



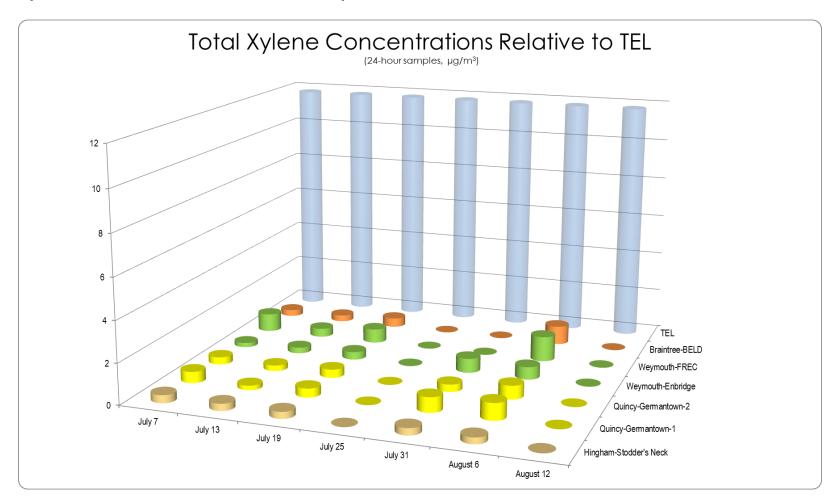
Ethyl Benzene Concentrations from Canister Samples relative to TEL



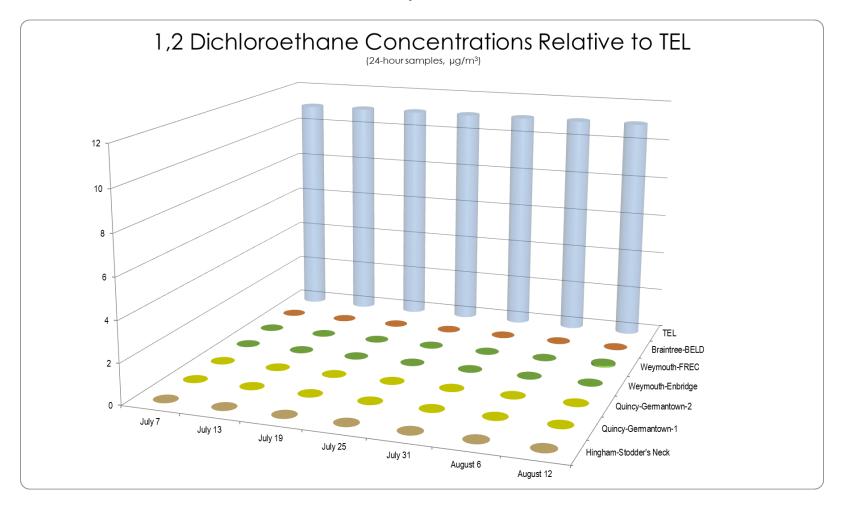
Toluene Concentrations from Canister Samples relative to TEL



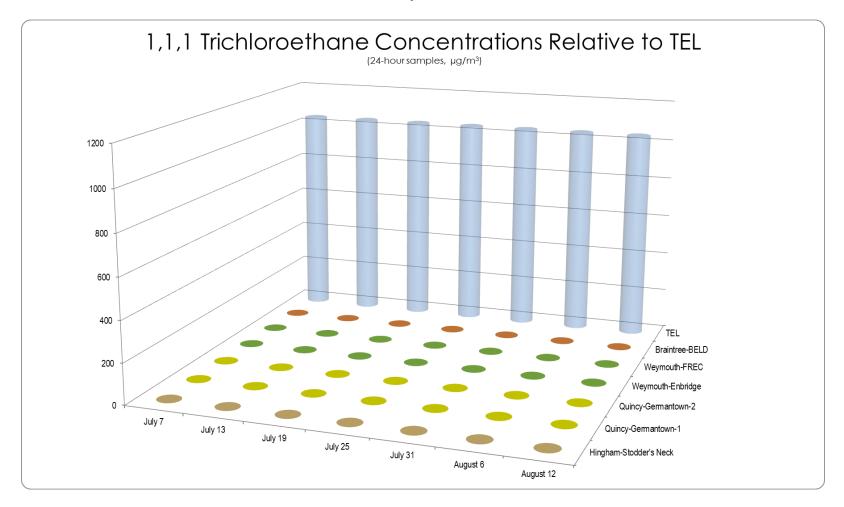
Xylene Concentrations from Canister Samples relative to TEL



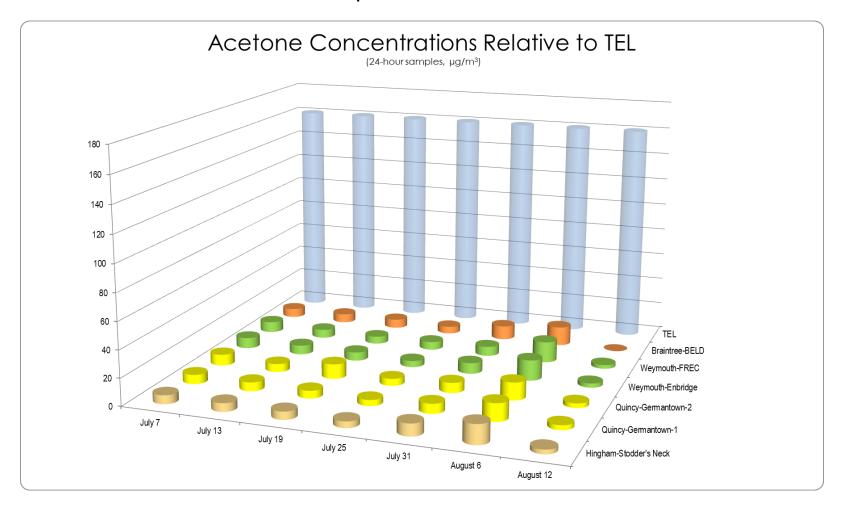
Dichloroethane Concentrations from Canister Samples relative to TEL



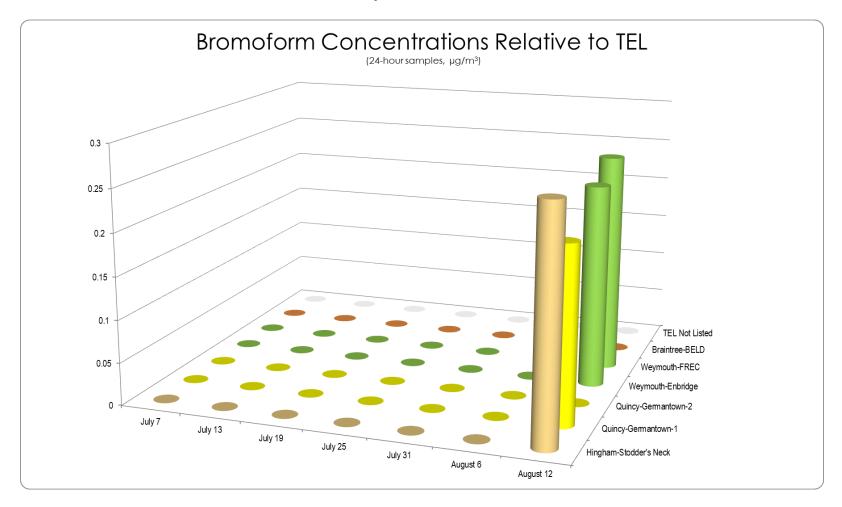
Trichloroethane Concentrations from Canister Samples relative to TEL



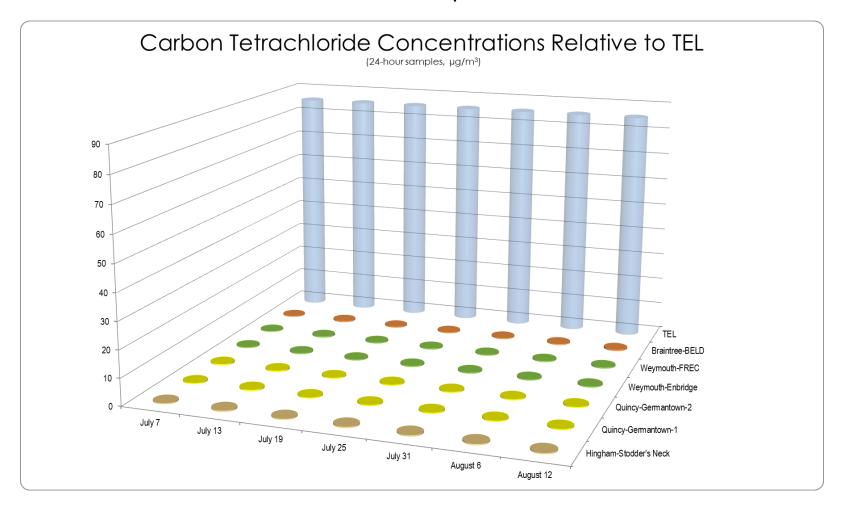
Acetone Concentrations from Canister Samples relative to TEL



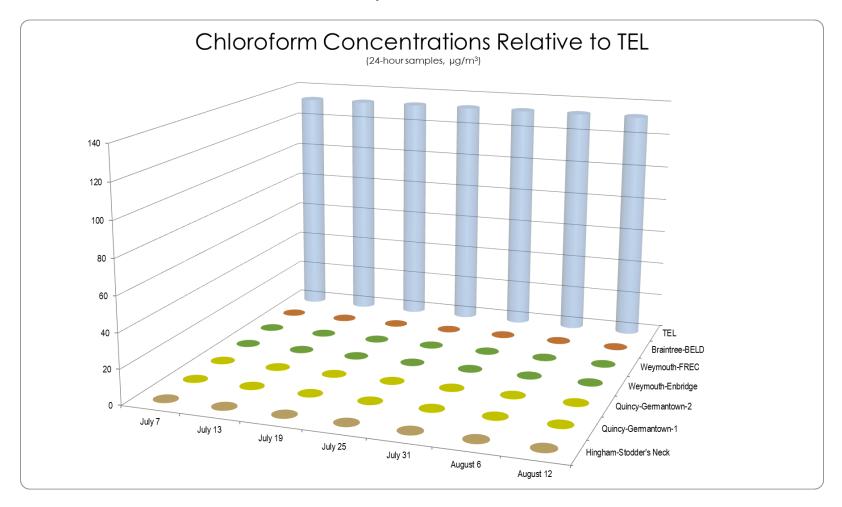
Bromoform Concentrations from Canister Samples relative to TEL



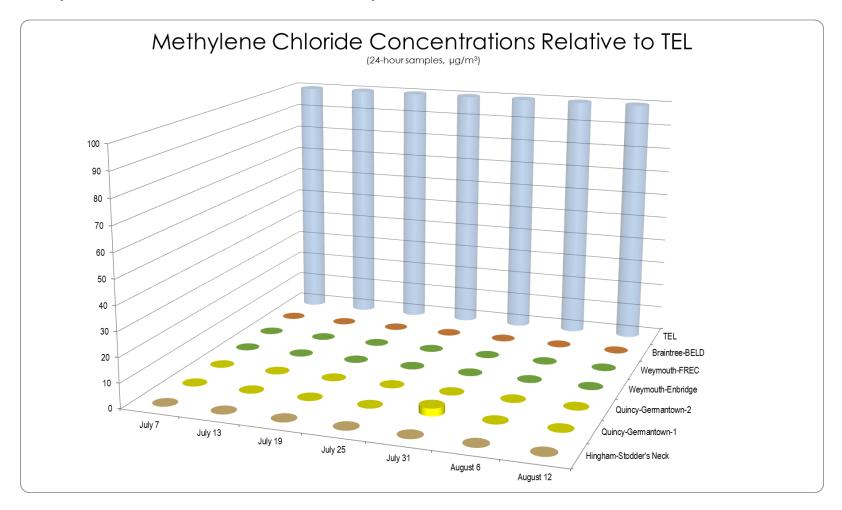
Carbon Tetrachloride Concentrations from Canister Samples relative to TEL



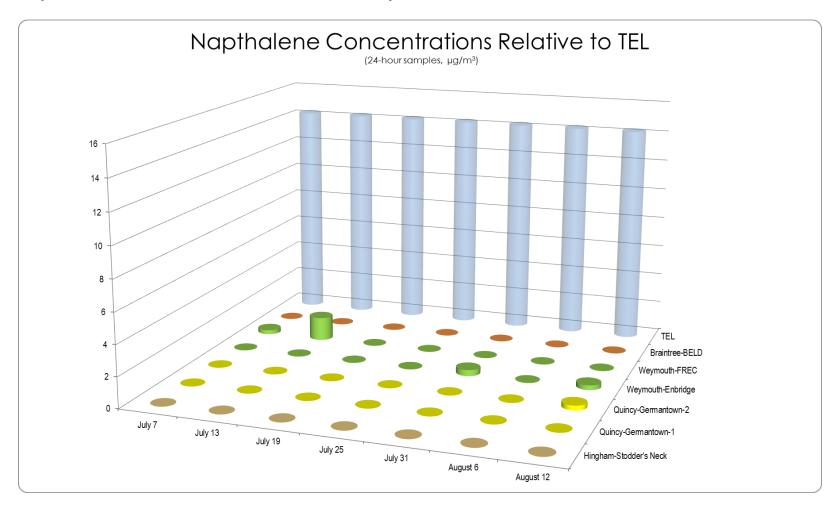
Chloroform Concentrations from Canister Samples relative to TEL



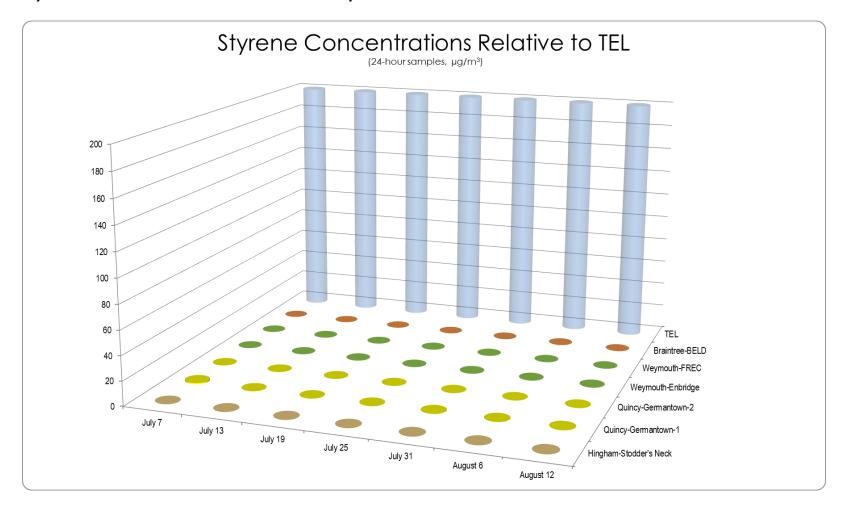
Methylene Concentrations from Canister Samples relative to TEL



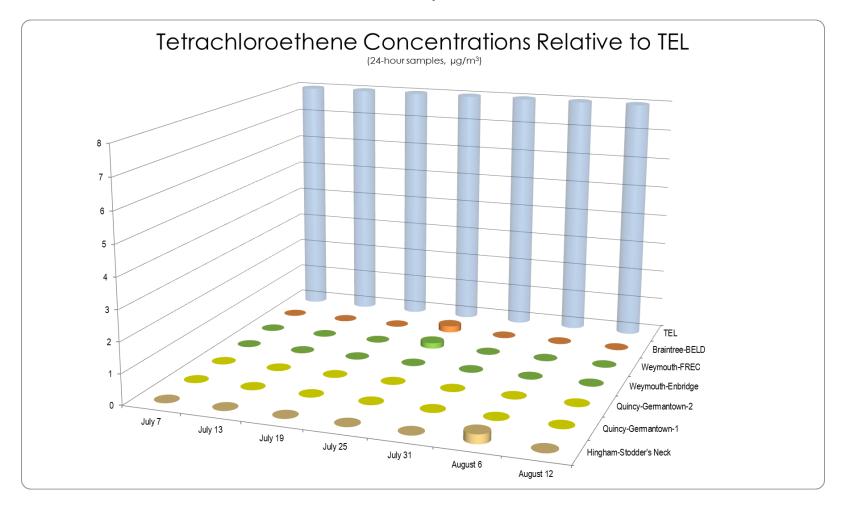
Naphthalene Concentrations from Canister Samples relative to TEL



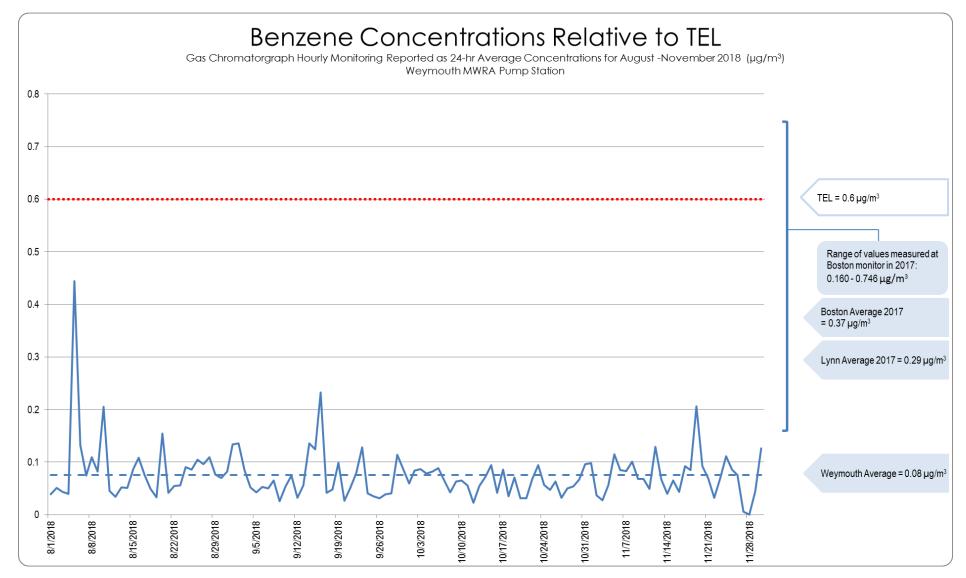
Styrene Concentrations from Canister Samples relative to TEL



Tetrachloroethane Concentrations from Canister Samples relative to TEL

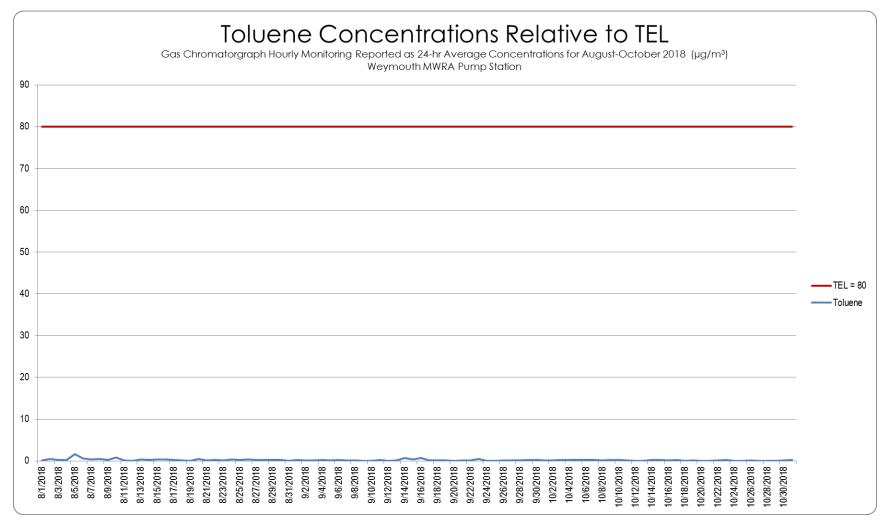


Benzene Concentrations from Air Monitoring at MWRA Pump Station



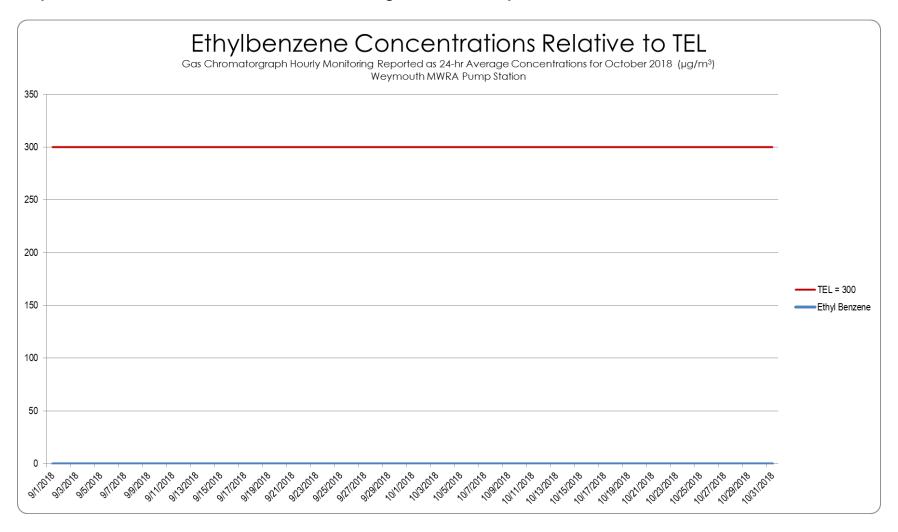
TEL = Threshold Effects Exposure Limit (24-Hour Average) $\mu g/m3 = micrograms per cubic meter$

Toluene Concentrations from Air Monitoring at MWRA Pump Station



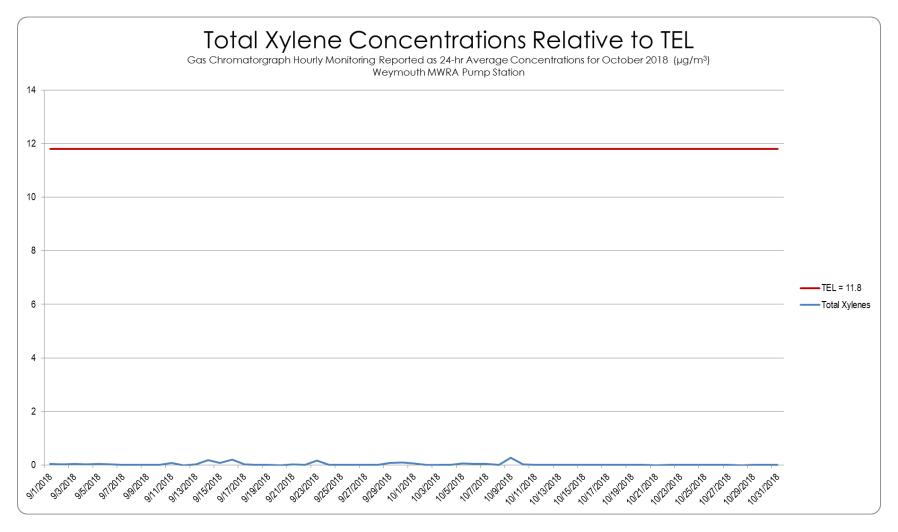
TEL = Threshold Effects Exposure Limit (24-Hour Average) $\mu g/m^3 = micrograms$ per cubic meter

Ethylbenzene Concentrations from Air Monitoring at MWRA Pump Station



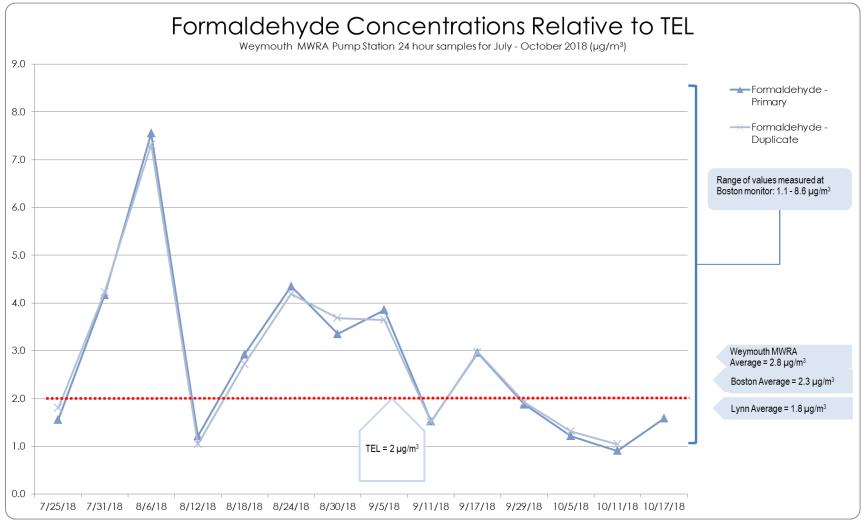
TEL = Threshold Effects Exposure Limit (24-Hour Average) $\mu g/m^3 = micrograms$ per cubic meter

Total Xylene Concentrations from Air Monitoring at MWRA Pump Station



TEL = Threshold Effects Exposure Limit (24-Hour Average) $\mu g/m^3 = micrograms$ per cubic meter

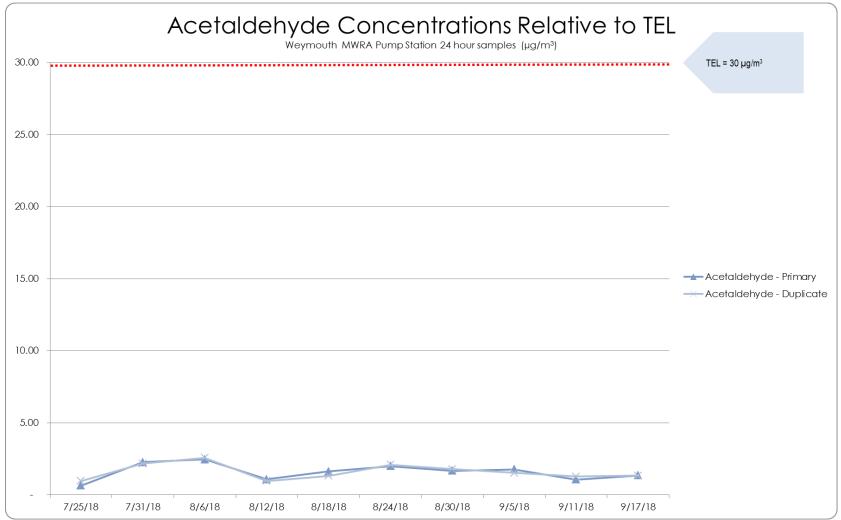
Formaldehyde 24-hr Concentrations from Air Monitoring at MWRA Pump Station



TEL = Threshold Effects Exposure Limit (24-Hour Average)

 $\mu g/m^3 = micrograms per cubic meter$

Acetaldehyde 24-hr Concentrations from Air Monitoring at MWRA Pump Station



TEL = Threshold Effects Exposure Limit (24-Hour Average)

 $\mu g/m^3 = micrograms per cubic meter$

Appendix F. Real Estate Sales Price History 2015-2017 for Municipalities and Focus Area

Municipality	Sale Year	Residential Type	Average Price		Median Price	
Braintree	2015	2 Family Residence	*	1/0 /05 00	*	450,000,00
Braintree	2016	2 Family Residence	\$	469,495.00	\$	452,000.00
braiiiiee	2010	2 I diffilly Residence	\$	487,869.00	\$	490,500.00
Braintree	2017	2 Family Residence	\$	511,667.00	\$	490,000.00
Braintree	2015	3 Family Residence	\$	612,900.00	\$	612,900.00
Braintree	2016	3 Family Residence	\$	543,333.00	\$	500,000.00
Braintree	2017	3 Family Residence	\$	295,000.00	\$	295,000.00
Braintree	2015	Condominium	\$	328,164.00	\$	310,000.00
Braintree	2016	Condominium	\$	312,908.00	\$	295,000.00
Braintree	2017	Condominium	\$	368,318.00	\$	328,450.00
Braintree	2015	Single Family Residence	\$	409,636.00	\$	385,000.00
Braintree	2016	Single Family Residence	\$	457,799.00	\$	424,167.00
Braintree	2017	Single Family Residence	\$	481,868.00	\$	455,000.00
Hingham	2015	2 Family Residence	\$	761,537.00	\$	485,000.00
Hingham	2016	2 Family Residence	\$	542,500.00	\$	529,500.00
Hingham	2017	2 Family Residence	\$	635,000.00	\$	635,000.00
Hingham	2017	3 Family Residence	\$	517,500.00	\$	517,500.00
Hingham	2015	Condominium	\$	643,657.00	\$	643,400.00
Hingham	2016	Condominium	\$	546,955.00	\$	340,000.00
Hingham	2017	Condominium	\$	676,102.00	\$	439,950.00

Municipality	Sale Year	Residential Type	Av	erage Price	Median Price
Hingham	2015	Single Family Residence	\$	812,419.00	\$ 718,500.00
Hingham	2016	Single Family Residence	\$	838,658.00	\$ 732,000.00
Hingham	2017	Single Family Residence	\$	948,407.00	\$ 775,000.00
Quincy	2015	2 Family Residence	\$	489,353.00	\$ 481,750.00
Quincy	2016	2 Family Residence	\$	529,755.00	\$ 540,000.00
Quincy	2017	2 Family Residence	\$	573,938.00	\$ 565,000.00
Quincy	2015	3 Family Residence	\$	617,850.00	\$ 630,000.00
Quincy	2016	3 Family Residence	\$	619,536.00	\$ 626,000.00
Quincy	2017	3 Family Residence	\$	666,424.00	\$ 630,000.00
Quincy	2015	Condominium	\$	1,650,550.00	\$ 306,000.00
Quincy	2016	Condominium	\$	326,183.00	\$ 298,000.00
Quincy	2017	Condominium	\$	335,296.00	\$ 300,000.00
Quincy	2015	Single Family Residence	\$	386,607.00	\$ 382,000.00
Quincy	2016	Single Family Residence	\$	418,554.00	\$ 406,000.00
Quincy	2017	Single Family Residence	\$	447,470.00	\$ 435,800.00
Weymouth	2015	2 Family Residence	\$	369,321.00	\$ 356,500.00
Weymouth	2016	2 Family Residence	\$	407,164.00	\$ 402,000.00
Weymouth	2017	2 Family Residence	\$	675,471.00	\$ 463,500.00
Weymouth	2015	3 Family Residence	\$	412,000.00	\$ 402,000.00
Weymouth	2016	3 Family Residence	\$	393,425.00	\$ 385,000.00
Weymouth	2017	3 Family Residence	\$	490,067.00	\$ 495,000.00
Weymouth	2015	Condominium	\$	216,685.00	\$ 200,000.00
Weymouth	2016	Condominium	\$	215,659.00	\$ 204,950.00

Municipality	Sale	Residential Type	Average Price		Median Price		
	Year						
Weymouth	2017	Condominium					
			\$	238,900.00	\$	220,000.00	
Weymouth	2015	Single Family Residence					
			\$	329,415.00	\$	325,000.00	
Weymouth	2016	Single Family Residence					
			\$	347,863.00	\$	344,475.00	
Weymouth	2017	Single Family Residence					
			\$	387,387.00	\$	377,000.00	

Appendix G. Community Engagement

A listing of meeting held and materials and information shared during the engagement process can be found on the project website: www.foreriverhia.com.







HEALTH IMPACT ASSESSMENT of the PROPOSED COMPRESSOR STATION, WEYMOUTH, MA

Read the meeting presentation here! on the Proposed Fore River Contract Pressor Station

November 15, 2018