

Alignment of Current (Year 3) and Planned (Year 4) Maine Asthma Program Activities and Maine Asthma Burden (Maine Counties with Significantly Higher Asthma Emergency Department (ED) Visit Rates and/or Adult Current Asthma Prevalence Rates Compared to Overall State Rates)

Table 1: Locations of Year 3 (Actual) and Year 4 (Planned) Interventions

Intervention/Program/Activity	Strategy Type	Active during Year 3				Planned for Year 4			
		Area 1	Area 2	Area 3	Statewide	Area 1	Area 2	Area 3	Statewide
Self Management Education	Service Strategy	X	X	X			X	X	
Home Visits	Service Strategy	X	X	X			X	X	
Health Systems Quality Improvement	Health Systems	X							X
Team Based Care	Health Systems	X					X	X	
Linkages to Care	Services Strategy	X					X	X	
System Level Linkages	Health Systems						X	X	

Geography Descriptions:

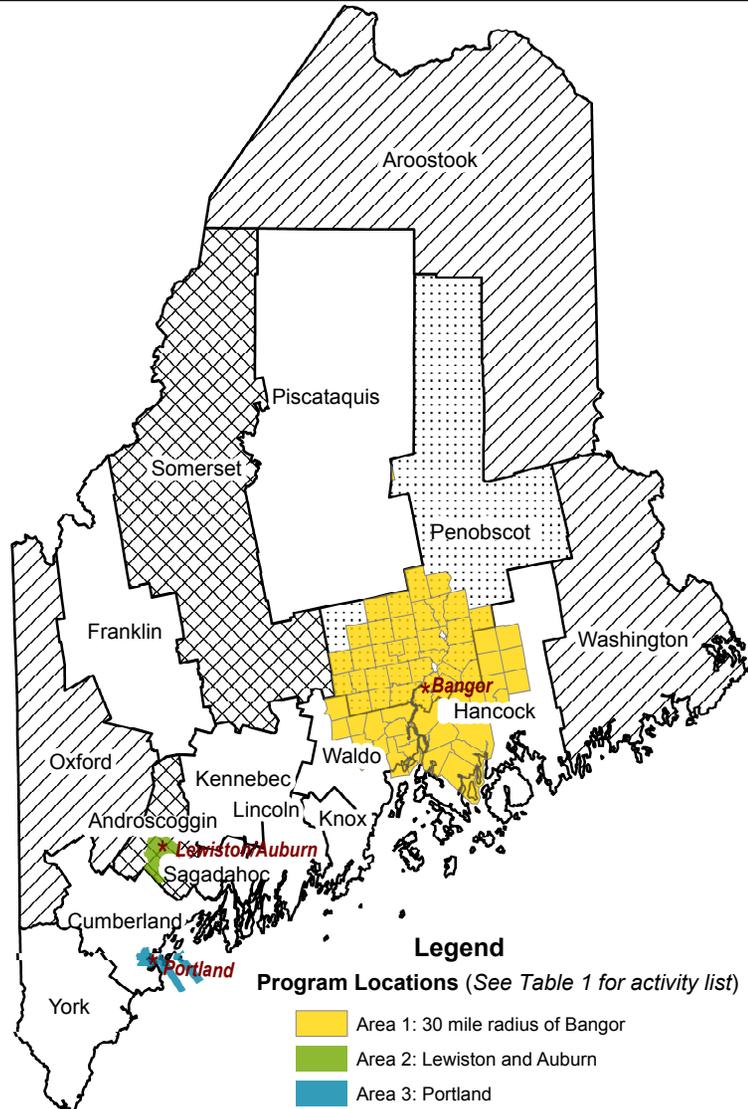
Area 1 = 60+ towns or cities within 30 mile radius of Bangor (approximate population 163,875)
Area 2 = Lewiston and Auburn (town/city) (population 59,065)
Area 3 = Portland City including islands (population 67,219)
Statewide = Maine (population 1,329,328)

Table 2: Burden Indicator Data

County	Asthma Emergency Department Visit Rate, 2012-2014		ED Trend	Current Adult Asthma Prevalence, BRFSS, 2012-2015		Comparison to State Summary	Active/Planned Local Activity
	Age-Adjusted Rate per 10,000 Population (95% CI)	Average Annual Number of Visits		ED Visit Trend: 2007-2014	Percent (95% CI)		
Maine	52.6 (51.8 - 53.3)	6,985		11.6 (11.1 - 12.0)	117,483	--	
Androscoggin	81.0 (77.8 - 84.4)	803		14.3 (12.5 - 16.1)	11,672	ED and Prevalence > State	Area 2
Aroostook	93.5 (89.1 - 98.1)	611		13.0 (11.0 - 15.1)	7,154	ED > State	
Cumberland	47.1 (45.6 - 48.7)	1255		10.5 (9.4 - 11.6)	22,112	Neither ED nor Prevalence > State	Area 3
Franklin	48.3 (43.5 - 53.5)	130		11.6 (9.0 - 14.2)	3,020	Neither ED nor Prevalence > State	
Hancock	51.1 (47.2 - 55.1)	238		10.2 (8.3 - 12.1)	4,327	Neither ED nor Prevalence > State	Area 1
Kennebec	51.0 (48.6 - 53.6)	559		10.9 (9.6 - 12.3)	10,312	Neither ED nor Prevalence > State	
Knox	62.3 (57.4 - 67.5)	217		9.9 (7.8 - 12.0)	3,078	Neither ED nor Prevalence > State	
Lincoln	48.0 (43.2 - 53.1)	140		7.5 (5.6 - 9.4)	2,140	Neither ED nor Prevalence > State	
Oxford	73.5 (69.0 - 78.1)	357		9.3 (7.4 - 11.1)	4,294	ED > State	
Penobscot	45.3 (43.2 - 47.4)	653		13.7 (12.1 - 15.2)	15,731	Adult Current Prevalence > State	Area 1
Piscataquis	60.5 (52.8 - 68.8)	84		12.9 (9.5 - 16.4)	2,011	Neither ED nor Prevalence > State	
Sagadahoc	43.7 (39.4 - 48.3)	133		11.1 (8.5 - 13.7)	2,807	Neither ED nor Prevalence > State	
Somerset	88.7 (83.7 - 94.0)	404		14.7 (12.2 - 17.3)	5,922	ED and Prevalence > State	
Waldo	49.7 (45.4 - 54.2)	177		10.9 (8.8 - 13.0)	3,251	Neither ED nor Prevalence > State	Area 1
Washington	87.0 (80.7 - 93.7)	257		10.1 (8.0 - 12.3)	2,633	ED > State	
York	53.7 (51.7 - 55.8)	965		11.6 (10.2 - 13.0)	17,020	Neither ED nor Prevalence > State	

Shading represents counties where current rate is statistically significantly higher than state rate. ED trend sparkline for 3 periods (2007-2009; 2010-2012; 2012-2014)

Summary findings: During 2012-2014, the rate of asthma ED visits among Maine residents was significantly higher than the state in five of sixteen counties; only one of these counties (Androscoggin) had asthma program activities planned or currently active. During 2012-2015, the adult current asthma prevalence rate in three of Maine's counties was significantly higher than the state; two of these counties (Androscoggin and Penobscot) had asthma program activities planned or currently active. In 2015, the median U.S. adult current asthma prevalence rate was 9.2%. During 2012-2015, ten of sixteen Maine counties had prevalence rates greater than the U.S. rate including Androscoggin and Penobscot counties. Asthma program activities were selected in earlier years in part due to high adult asthma prevalence and ED visit rates in several areas during earlier analyses. Because of the rural nature of the state, many of our activities are town or city-based, and the towns and cities selected for asthma program activities are the larger population centers in the state. The three areas selected for current and planned activities represent approximately 22% of Maine's population. In addition, Portland was selected as a site for multiple program activities for several reasons including having a rate of asthma emergency department visits greater than the state rate (92.0 per 100,000 vs. 60.9 per 100,000 in 2007-2011.) Portland and the Lewiston/Auburn area demonstrate other disparities in health care access that may be related to asthma control such as the proportion of the population with health literacy and language barriers.



Program Locations (See Table 1 for activity list)

- Area 1: 30 mile radius of Bangor
- Area 2: Lewiston and Auburn
- Area 3: Portland

Asthma Burden by County (See Table 2 for data)

- ED and Adult Current Prevalence > State
- Adult Current Prevalence > State
- ED > State
- Neither ED nor Adult Current Prevalence > State