

Appendix
Air Quality Awareness and Behaviors of U.S. Adolescents With and Without Asthma
Lynch and Mirabelli

Appendix Table 1. Air Quality Awareness and Perceptions Among U.S. Youth With and Without Asthma, by Demographic Characteristics

Survey questions	All respondents		With asthma		Without asthma	
	n ^a	Weighted % (95% CI)	n ^a	Weighted % (95% CI)	n ^a	Weighted % (95% CI)
Do you think air pollution can impact a person's health in any way?						
Age, years						
12–13	246	83.3 (78.2, 88.3)	28	90.2 (79.5, 100.0)	218	82.5 (77.0, 87.9)
14–15	232	85.1 (79.6, 90.7)	27	86.4 (73.6, 99.1)	205	84.9 (78.8, 91.0)
16–17	235	90.6 (86.3, 94.9)	18	78.9 (56.0, 100.0)	217	91.9 (88.0, 95.8)
Sex						
Female	362	87.1 (83.0, 91.3)	38	87.1 (72.5, 100.0)	324	87.1 (82.9, 91.4)
Male	351	85.7 (81.7, 89.7)	35	83.4 (71.4, 95.3)	316	86.0 (81.8, 90.3)
Race/ethnicity						
White, non-Hispanic	445	85.3 (81.6, 89.0)	36	88.9 (80.1, 97.8)	409	84.9 (80.9, 88.9)
Black, non-Hispanic	49	77.7 (66.4, 89.0)	6	55.0 (19.7, 90.3)	43	82.0 (71.1, 93.0)
Other, non-Hispanic	52	91.9 (83.7, 100.0)	5	100.0 (100.0, 100.0)	47	91.0 (82.1, 100.0)
Hispanic	124	91.0 (85.6, 96.4)	16	93.1 (83.5, 100.0)	108	90.7 (84.7, 96.7)
≥2 races, non-Hispanic	43	93.7 (87.8, 99.6)	10	100.0 (100.0, 100.0)	33	91.4 (83.5, 99.3)
Parental educational attainment						
High school or less	132	77.5 (69.9, 85.2)	18	71.4 (50.9, 92.0)	114	78.8 (70.5, 87.0)
Some college	229	89.4 (85.2, 93.6)	24	94.5 (86.9, 100.0)	205	88.8 (84.3, 93.4)
Bachelor's or higher	352	90.0 (86.7, 93.2)	31	94.2 (86.4, 100.0)	321	89.6 (86.1, 93.0)
Region						
Northeast	130	83.4 (75.2, 91.7)	16	100.0 (100.0, 100.0)	114	80.8 (71.6, 90.1)
Midwest	167	86.3 (80.9, 91.7)	13	80.1 (61.7, 98.5)	154	86.9 (81.2, 92.5)
South	248	84.6 (79.5, 89.6)	26	74.3 (55.1, 93.4)	222	86.1 (81.1, 91.1)
West	168	91.3 (86.6, 96.1)	18	96.0 (88.3, 100.0)	150	90.7 (85.5, 96.0)
Metropolitan status						
Metropolitan area	614	86.9 (83.8, 90.0)	61	86.8 (76.4, 97.2)	553	86.9 (83.7, 90.1)
Non-metropolitan area	99	83.2 (75.3, 91.2)	12	79.2 (57.6, 100.0)	87	84.1 (75.6, 92.6)
Do you think there are things you can do to limit your or your family's exposure to air pollution?						
Age, years						
12–13	172	55.9 (49.0, 62.7)	14	45.8 (27.0, 64.6)	158	57.0 (49.7, 64.3)
14–15	170	61.5 (54.4, 68.7)	21	61.3 (40.4, 82.1)	149	61.6 (54.0, 69.2)
16–17	177	68.6 (62.0, 75.2)	14	57.4 (32.0, 82.7)	163	69.9 (63.2, 76.5)
Sex						
Female	265	60.9 (55.1, 66.8)	30	67.3 (49.4, 85.2)	235	60.1 (54.0, 66.2)
Male	254	63.3 (57.8, 68.7)	19	43.9 (26.6, 61.3)	235	65.7 (60.1, 71.4)

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Race/ethnicity							
White, non-Hispanic	318	60.1 (55.2, 65.0)	23	54.8 (37.5, 72.1)	295	60.6 (55.5, 65.7)	
Black, non-Hispanic	33	50.5 (36.9, 64.2)	6	55.0 (19.7, 90.3)	27	49.7 (34.9, 64.5)	
Other, non-Hispanic	39	61.5 (46.5, 76.6)	3	46.3 (0.0, 96.3)	36	63.1 (47.5, 78.8)	
Hispanic	100	73.9 (65.5, 82.3)	12	65.2 (39.4, 91.1)	88	75.1 (66.3, 84.0)	
≥2 Races, non-Hispanic	29	55.8 (38.8, 72.9)	5	36.7 (2.7, 70.8)	24	62.5 (44.7, 80.3)	
Parental educational attainment							
High school or less	100	57.1 (48.2, 66.0)	9	30.6 (10.4, 50.8)	91	62.5 (53.0, 71.9)	
Some college	162	61.3 (54.4, 68.3)	17	67.4 (47.7, 87.1)	145	60.7 (53.3, 68.0)	
Bachelor's or higher	257	66.3 (60.9, 71.7)	23	76.4 (61.9, 90.9)	234	65.2 (59.5, 71.0)	
Region							
Northeast	101	63.8 (54.3, 73.3)	13	88.8 (75.5, 100.0)	88	59.8 (49.6, 70.0)	
Midwest	118	59.2 (51.2, 67.2)	9	54.3 (29.1, 79.5)	109	59.6 (51.2, 68.0)	
South	188	63.8 (57.2, 70.5)	16	41.4 (21.9, 60.9)	172	67.1 (60.3, 74.0)	
West	112	61.1 (52.7, 69.6)	11	55.3 (28.3, 82.2)	101	61.9 (53.0, 70.7)	
Metropolitan status							
Metropolitan area	452	63.8 (59.6, 68.1)	44	63.2 (49.3, 77.0)	408	63.9 (59.4, 68.4)	
Non-metropolitan area	67	51.1 (40.5, 61.8)	5	26.2 (3.5, 48.9)	62	56.4 (45.0, 67.8)	

^aUnweighted frequency.