



# Analysis of the Public Health Impacts of the Regional Greenhouse Gas Initiative, 2009–2014



## Appendix E: State Level Results

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## RGGI States

### Connecticut

Table 1. Avoided Health Effects in CT due to RGGI

Health Endpoint	Cases Avoided due to RGGI						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	11	2	1	2	3	2	<b>22</b>
Adult Mortality	7 - 16	2 - 4	1 - 2	2 - 4	2 - 5	1 - 3	<b>15 - 34</b>
Asthma ER Visits	5	1	<1	1	1	<1	<b>10</b>
Asthma Exacerbations	205	46	28	44	60	38	<b>421</b>
Cardiovascular Hospital Admissions	3	<1	<1	<1	1	<1	<b>7</b>
Infant Mortality	<1	<1	<1	<1	<1	<1	<b>&lt;1</b>
Lower Respiratory Symptoms	137	30	18	29	40	25	<b>281</b>
Minor Restricted Activity Days	5,678	1,272	770	1,246	1,706	1,078	<b>11,750</b>
Non-fatal Heart Attacks	1 - 10	0 - 2	0 - 1	0 - 2	0 - 3	0 - 2	<b>2 - 20</b>
Respiratory Hospital Admissions	3	<1	<1	<1	<1	<1	<b>5</b>
Upper Respiratory Symptoms	196	43	26	42	57	36	<b>402</b>
Work Loss Days	948	212	128	207	284	179	<b>1,958</b>

Table 2. Valuation of Avoided Health Effects in CT due to RGGI

Health Endpoint	Million 2015 dollars, 3% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.01</b>
Adult Mortality	\$74 - \$168	\$16 - \$37	\$10 - \$22	\$15 - \$34	\$21 - \$47	\$13 - \$29	<b>\$149 - \$338</b>
Asthma ER Visits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.01</b>
Asthma Exacerbations	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.03</b>
Cardiovascular Hospital Admissions	\$0.18	\$0.04	\$0.02	\$0.04	\$0.05	\$0.03	<b>\$0.36</b>
Infant Mortality	\$0.11	\$0.02	\$0.01	\$0.02	\$0.03	\$0.02	<b>\$0.21</b>
Lower Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.01</b>
Minor Restricted Activity Days	\$0.49	\$0.11	\$0.06	\$0.10	\$0.13	\$0.08	<b>\$0.97</b>
Non-fatal Heart Attacks	\$0.17 - \$1.59	\$0.04 - \$0.35	\$0.02 - \$0.21	\$0.04 - \$0.33	\$0.05 - \$0.45	\$0.03 - \$0.28	<b>\$0.35 - \$3.21</b>
Respiratory Hospital Admissions	\$0.09	\$0.02	\$0.01	\$0.02	\$0.03	\$0.02	<b>\$0.19</b>
Upper Respiratory Symptoms	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.02</b>
Work Loss Days	\$0.25	\$0.05	\$0.03	\$0.05	\$0.07	\$0.04	<b>\$0.50</b>
<b>Total</b>	<b>\$76 - \$171</b>	<b>\$17 - \$38</b>	<b>\$10 - \$23</b>	<b>\$15 - \$35</b>	<b>\$21 - \$47</b>	<b>\$13 - \$30</b>	<b>\$152 - \$343</b>
Health Endpoint	Million 2015 dollars, 7% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.02</b>
Adult Mortality	\$83 - \$188	\$18 - \$40	\$10 - \$23	\$15 - \$34	\$20 - \$45	\$12 - \$27	<b>\$158 - \$358</b>
Asthma ER Visits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.01</b>
Asthma Exacerbations	\$0.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.03</b>
Cardiovascular Hospital Admissions	\$0.22	\$0.05	\$0.03	\$0.04	\$0.05	\$0.03	<b>\$0.43</b>
Infant Mortality	\$0.14	\$0.03	\$0.02	\$0.02	\$0.03	\$0.02	<b>\$0.25</b>
Lower Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.01</b>
Minor Restricted Activity Days	\$0.61	\$0.13	\$0.07	\$0.11	\$0.14	\$0.08	<b>\$1.15</b>
Non-fatal Heart Attacks	\$0.21 - \$1.95	\$0.04 - \$0.41	\$0.03 - \$0.24	\$0.04 - \$0.36	\$0.05 - \$0.47	\$0.03 - \$0.28	<b>\$0.4 - \$3.71</b>
Respiratory Hospital Admissions	\$0.12	\$0.02	\$0.01	\$0.02	\$0.03	\$0.02	<b>\$0.22</b>
Upper Respiratory Symptoms	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.02</b>
Work Loss Days	\$0.32	\$0.07	\$0.04	\$0.06	\$0.07	\$0.04	<b>\$0.59</b>
<b>Total</b>	<b>\$85 - \$192</b>	<b>\$18 - \$41</b>	<b>\$10 - \$23</b>	<b>\$15 - \$35</b>	<b>\$20 - \$46</b>	<b>\$12 - \$27</b>	<b>\$161 - \$364</b>

Table 3. Avoided Health Effects in DE due to RGGI

Health Endpoint	Cases Avoided due to RGGI						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	7	1	<1	2	3	2	15
Adult Mortality	5 - 12	1 - 2	0 - 1	1 - 3	2 - 5	1 - 3	12 - 26
Asthma ER Visits	2	<1	<1	1	1	1	5
Asthma Exacerbations	138	21	7	32	55	38	290
Cardiovascular Hospital Admissions	2	<1	<1	1	1	1	4
Infant Mortality	<1	<1	<1	<1	<1	<1	<1
Lower Respiratory Symptoms	89	14	4	21	37	26	192
Minor Restricted Activity Days	3,812	606	192	904	1,583	1,073	8,171
Non-fatal Heart Attacks	0.59 - 6	0 - 1	0 - 0	0 - 1	0 - 3	0 - 2	1 - 12
Respiratory Hospital Admissions	1	<1	<1	<1	<1	<1	3
Upper Respiratory Symptoms	127	20	6	30	53	37	274
Work Loss Days	638	101	32	151	264	179	1,364

Table 4. Valuation of Avoided Health Effects in DE due to RGGI

Health Endpoint	Million 2015 dollars, 3% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Adult Mortality	\$54 - \$122	\$9 - \$20	\$3 - \$6	\$13 - \$28	\$22 - \$49	\$14 - \$31	\$114 - \$257
Asthma ER Visits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Asthma Exacerbations	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.02
Cardiovascular Hospital Admissions	\$0.1	\$0.02	\$0.01	\$0.02	\$0.04	\$0.03	\$0.22
Infant Mortality	\$0.15	\$0.02	\$0.01	\$0.03	\$0.05	\$0.03	\$0.29
Lower Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Minor Restricted Activity Days	\$0.33	\$0.05	\$0.02	\$0.07	\$0.12	\$0.08	\$0.67
Non-fatal Heart Attacks	\$0.1 - \$0.92	\$0.02 - \$0.15	\$0 - \$0.05	\$0.02 - \$0.22	\$0.04 - \$0.37	\$0.03 - \$0.23	\$0.21 - \$1.95
Respiratory Hospital Admissions	\$0.05	\$0.01	\$0.00	\$0.01	\$0.02	\$0.01	\$0.12
Upper Respiratory Symptoms	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Work Loss Days	\$0.14	\$0.02	\$0.01	\$0.03	\$0.05	\$0.03	\$0.28
<b>Total</b>	<b>\$55 - \$124</b>	<b>\$9 - \$21</b>	<b>\$3 - \$6</b>	<b>\$13 - \$29</b>	<b>\$22 - \$50</b>	<b>\$14 - \$31</b>	<b>\$115 - \$261</b>
Health Endpoint	Million 2015 dollars, 7% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Adult Mortality	\$60 - \$137	\$10 - \$22	\$3 - \$6	\$13 - \$28	\$21 - \$47	\$13 - \$29	\$119 - \$270
Asthma ER Visits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Asthma Exacerbations	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.02
Cardiovascular Hospital Admissions	\$0.13	\$0.02	\$0.01	\$0.03	\$0.05	\$0.03	\$0.26
Infant Mortality	\$0.18	\$0.03	\$0.01	\$0.03	\$0.06	\$0.04	\$0.35
Lower Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Minor Restricted Activity Days	\$0.41	\$0.06	\$0.02	\$0.08	\$0.13	\$0.08	\$0.79
Non-fatal Heart Attacks	\$0.12 - \$1.13	\$0.02 - \$0.18	\$0.01 - \$0.05	\$0.03 - \$0.24	\$0.04 - \$0.39	\$0.03 - \$0.24	\$0.24 - \$2.23
Respiratory Hospital Admissions	\$0.07	\$0.01	\$0.00	\$0.01	\$0.02	\$0.01	\$0.14
Upper Respiratory Symptoms	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Work Loss Days	\$0.17	\$0.02	\$0.01	\$0.03	\$0.05	\$0.04	\$0.33
<b>Total</b>	<b>\$61 - \$139</b>	<b>\$10 - \$22</b>	<b>\$3 - \$6</b>	<b>\$13 - \$29</b>	<b>\$21 - \$48</b>	<b>\$13 - \$29</b>	<b>\$121 - \$274</b>

Table 5. Avoided Health Effects in ME due to RGGI

Health Endpoint	Cases Avoided due to RGGI						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	3	1	<1	<1	1	<1	<b>8</b>
Adult Mortality	3 - 7	1 - 2	1 - 2	1 - 2	1 - 2	0 - 1	<b>7 - 16</b>
Asthma ER Visits	2	1	<1	<1	1	<1	<b>4</b>
Asthma Exacerbations	64	21	16	16	21	12	<b>150</b>
Cardiovascular Hospital Admissions	<1	<1	<1	<1	<1	<1	<b>2</b>
Infant Mortality	<1	<1	<1	<1	<1	<1	<b>&lt;1</b>
Lower Respiratory Symptoms	42	14	10	11	14	8	<b>99</b>
Minor Restricted Activity Days	1,977	655	485	506	651	378	<b>4,653</b>
Non-fatal Heart Attacks	0 - 5	0 - 2	0 - 1	0 - 1	0 - 2	0 - 1	<b>1 - 11</b>
Respiratory Hospital Admissions	<1	<1	<1	<1	<1	<1	<b>2</b>
Upper Respiratory Symptoms	60	20	15	15	20	12	<b>141</b>
Work Loss Days	327	108	80	83	107	62	<b>769</b>

Table 6. Valuation of Avoided Health Effects in ME due to RGGI

Health Endpoint	Million 2015 dollars, 3% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Adult Mortality	\$30 - \$68	\$10 - \$22	\$7 - \$16	\$7 - \$16	\$9 - \$21	\$5 - \$12	\$69 - \$157
Asthma ER Visits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Asthma Exacerbations	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Cardiovascular Hospital Admissions	\$0.04	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.09
Infant Mortality	\$0.04	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.1
Lower Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Minor Restricted Activity Days	\$0.17	\$0.05	\$0.04	\$0.04	\$0.05	\$0.03	\$0.38
Non-fatal Heart Attacks	\$0.08 - \$0.73	\$0.03 - \$0.24	\$0.02 - \$0.18	\$0.02 - \$0.18	\$0.02 - \$0.23	\$0.01 - \$0.13	\$0.18 - \$1.7
Respiratory Hospital Admissions	\$0.03	\$0.01	\$0.01	\$0.01	\$0.01	\$0.00	\$0.06
Upper Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Work Loss Days	\$0.06	\$0.02	\$0.01	\$0.02	\$0.02	\$0.01	\$0.15
<b>Total</b>	<b>\$31 - \$69</b>	<b>\$10 - \$23</b>	<b>\$7 - \$17</b>	<b>\$7 - \$17</b>	<b>\$9 - \$21</b>	<b>\$6 - \$12</b>	<b>\$70 - \$159</b>
Health Endpoint	Million 2015 dollars, 7% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Adult Mortality	\$34 - \$76	\$11 - \$24	\$8 - \$17	\$7 - \$16	\$9 - \$20	\$5 - \$11	\$73 - \$166
Asthma ER Visits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Asthma Exacerbations	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Cardiovascular Hospital Admissions	\$0.05	\$0.02	\$0.01	\$0.01	\$0.01	\$0.01	\$0.11
Infant Mortality	\$0.05	\$0.02	\$0.01	\$0.01	\$0.01	\$0.01	\$0.11
Lower Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Minor Restricted Activity Days	\$0.21	\$0.07	\$0.05	\$0.04	\$0.05	\$0.03	\$0.45
Non-fatal Heart Attacks	\$0.1 - \$0.9	\$0.03 - \$0.28	\$0.02 - \$0.2	\$0.02 - \$0.2	\$0.03 - \$0.24	\$0.01 - \$0.14	\$0.21 - \$1.96
Respiratory Hospital Admissions	\$0.03	\$0.01	\$0.01	\$0.01	\$0.01	\$0.00	\$0.07
Upper Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Work Loss Days	\$0.08	\$0.03	\$0.02	\$0.02	\$0.02	\$0.01	\$0.17
<b>Total</b>	<b>\$34 - \$78</b>	<b>\$11 - \$25</b>	<b>\$8 - \$17</b>	<b>\$7 - \$17</b>	<b>\$9 - \$21</b>	<b>\$5 - \$12</b>	<b>\$74 - \$169</b>

**Table 7. Avoided Health Effects in MD due to RGGI**

Health Endpoint	Cases Avoided due to RGGI						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	24	3	1	7	12	7	<b>54</b>
Adult Mortality	16 - 36	2 - 4	1 - 2	5 - 10	8 - 17	5 - 11	<b>36 - 81</b>
Asthma ER Visits	10	1	<1	3	5	3	<b>23</b>
Asthma Exacerbations	469	55	26	132	220	134	<b>1,036</b>
Cardiovascular Hospital Admissions	5	1	<1	2	3	2	<b>12</b>
Infant Mortality	<1	<1	<1	<1	<1	<1	<b>&lt;1</b>
Lower Respiratory Symptoms	310	36	18	89	148	91	<b>692</b>
Minor Restricted Activity Days	13,196	1,560	759	3,815	6,347	3,862	<b>29,538</b>
Non-fatal Heart Attacks	1.6 - 15	0 - 2	0 - 1	0 - 4	1 - 8	1 - 5	<b>4 - 34</b>
Respiratory Hospital Admissions	4	<1	<1	1	2	1	<b>9</b>
Upper Respiratory Symptoms	443	52	25	127	212	130	<b>987</b>
Work Loss Days	2,213	261	127	639	1,063	647	<b>4,950</b>



Table 8. Valuation of Avoided Health Effects in MD due to RGGI

Health Endpoint	Million 2015 dollars, 3% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.01	\$0.00	\$0.00	\$0.00	\$0.01	\$0.00	\$0.03
Adult Mortality	\$162 - \$368	\$19 - \$43	\$9 - \$21	\$43 - \$98	\$72 - \$164	\$44 - \$100	\$349 - \$793
Asthma ER Visits	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Asthma Exacerbations	\$0.03	\$0.00	\$0.00	\$0.01	\$0.01	\$0.01	\$0.07
Cardiovascular Hospital Admissions	\$0.28	\$0.03	\$0.02	\$0.08	\$0.13	\$0.08	\$0.61
Infant Mortality	\$0.42	\$0.05	\$0.02	\$0.11	\$0.18	\$0.11	\$0.88
Lower Respiratory Symptoms	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.02
Minor Restricted Activity Days	\$1.13	\$0.13	\$0.06	\$0.30	\$0.49	\$0.29	\$2.40
Non-fatal Heart Attacks	\$0.27 - \$2.5	\$0.03 - \$0.29	\$0.01 - \$0.14	\$0.07 - \$0.68	\$0.12 - \$1.12	\$0.07 - \$0.68	\$0.58 - \$5.41
Respiratory Hospital Admissions	\$0.14	\$0.02	\$0.01	\$0.04	\$0.07	\$0.04	\$0.31
Upper Respiratory Symptoms	\$0.02	\$0.00	\$0.00	\$0.00	\$0.01	\$0.00	\$0.04
Work Loss Days	\$0.58	\$0.07	\$0.03	\$0.16	\$0.25	\$0.15	\$1.24
<b>Total</b>	<b>\$165 - \$373</b>	<b>\$19 - \$44</b>	<b>\$9 - \$21</b>	<b>\$44 - \$100</b>	<b>\$73 - \$166</b>	<b>\$45 - \$101</b>	<b>\$355 - \$804</b>
Health Endpoint	Million 2015 dollars, 7% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.02	\$0.00	\$0.00	\$0.00	\$0.01	\$0.00	\$0.04
Adult Mortality	\$181 - \$411	\$21 - \$47	\$9 - \$21	\$43 - \$98	\$69 - \$157	\$41 - \$92	\$364 - \$827
Asthma ER Visits	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Asthma Exacerbations	\$0.04	\$0.00	\$0.00	\$0.01	\$0.02	\$0.01	\$0.08
Cardiovascular Hospital Admissions	\$0.36	\$0.04	\$0.02	\$0.09	\$0.14	\$0.08	\$0.72
Infant Mortality	\$0.53	\$0.06	\$0.03	\$0.12	\$0.19	\$0.11	\$1.04
Lower Respiratory Symptoms	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.02
Minor Restricted Activity Days	\$1.42	\$0.16	\$0.07	\$0.34	\$0.53	\$0.30	\$2.82
Non-fatal Heart Attacks	\$0.33 - \$3.06	\$0.04 - \$0.34	\$0.02 - \$0.16	\$0.08 - \$0.74	\$0.13 - \$1.18	\$0.07 - \$0.68	\$0.66 - \$6.15
Respiratory Hospital Admissions	\$0.18	\$0.02	\$0.01	\$0.04	\$0.07	\$0.04	\$0.37
Upper Respiratory Symptoms	\$0.02	\$0.00	\$0.00	\$0.01	\$0.01	\$0.00	\$0.05
Work Loss Days	\$0.73	\$0.08	\$0.04	\$0.17	\$0.27	\$0.15	\$1.45
<b>Total</b>	<b>\$185 - \$418</b>	<b>\$21 - \$47</b>	<b>\$10 - \$22</b>	<b>\$44 - \$100</b>	<b>\$71 - \$160</b>	<b>\$41 - \$94</b>	<b>\$372 - \$840</b>

**Table 9. Avoided Health Effects in MA due to RGGI**

Health Endpoint	Cases Avoided due to RGGI						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	19	7	4	7	7	3	<b>47</b>
Adult Mortality	14 - 32	5 - 12	3 - 8	5 - 11	6 - 13	2 - 5	<b>35 - 80</b>
Asthma ER Visits	9	3	2	3	4	1	<b>22</b>
Asthma Exacerbations	367	133	84	125	140	54	<b>904</b>
Cardiovascular Hospital Admissions	4	2	1	2	2	1	<b>10</b>
Infant Mortality	<1	<1	<1	<1	<1	<1	<b>&lt;1</b>
Lower Respiratory Symptoms	240	87	56	83	93	36	<b>595</b>
Minor Restricted Activity Days	10,679	3,928	2,511	3,788	4,313	1,645	<b>26,863</b>
Non-fatal Heart Attacks	1.72 - 16	1 - 6	0 - 4	1 - 6	1 - 7	0 - 3	<b>4 - 41</b>
Respiratory Hospital Admissions	4	2	1	1	2	1	<b>10</b>
Upper Respiratory Symptoms	342	124	80	119	134	51	<b>850</b>
Work Loss Days	1,789	656	419	632	720	275	<b>4,491</b>

Table 10. Valuation of Avoided Health Effects in MA due to RGGI

Health Endpoint	Million 2015 dollars, 3% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.03
Adult Mortality	\$143 - \$324	\$52 - \$119	\$33 - \$75	\$47 - \$107	\$52 - \$118	\$20 - \$44	\$348 - \$787
Asthma ER Visits	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Asthma Exacerbations	\$0.03	\$0.01	\$0.01	\$0.01	\$0.01	\$0.00	\$0.06
Cardiovascular Hospital Admissions	\$0.22	\$0.08	\$0.05	\$0.07	\$0.08	\$0.03	\$0.53
Infant Mortality	\$0.18	\$0.07	\$0.04	\$0.06	\$0.06	\$0.02	\$0.44
Lower Respiratory Symptoms	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.02
Minor Restricted Activity Days	\$0.92	\$0.33	\$0.20	\$0.30	\$0.33	\$0.12	\$2.20
Non-fatal Heart Attacks	\$0.28 - \$2.62	\$0.1 - \$0.96	\$0.06 - \$0.59	\$0.1 - \$0.89	\$0.11 - \$0.98	\$0.04 - \$0.37	\$0.69 - \$6.42
Respiratory Hospital Admissions	\$0.15	\$0.06	\$0.03	\$0.05	\$0.06	\$0.02	\$0.36
Upper Respiratory Symptoms	\$0.01	\$0.01	\$0.00	\$0.00	\$0.01	\$0.00	\$0.03
Work Loss Days	\$0.46	\$0.16	\$0.10	\$0.15	\$0.16	\$0.06	\$1.10
<b>Total</b>	<b>\$145 - \$328</b>	<b>\$53 - \$120</b>	<b>\$34 - \$76</b>	<b>\$48 - \$108</b>	<b>\$53 - \$120</b>	<b>\$20 - \$45</b>	<b>\$353 - \$798</b>
Health Endpoint	Million 2015 dollars, 7% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.03
Adult Mortality	\$160 - \$363	\$57 - \$128	\$34 - \$78	\$47 - \$107	\$50 - \$114	\$18 - \$41	\$367 - \$829
Asthma ER Visits	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Asthma Exacerbations	\$0.03	\$0.01	\$0.01	\$0.01	\$0.01	\$0.00	\$0.07
Cardiovascular Hospital Admissions	\$0.27	\$0.1	\$0.06	\$0.08	\$0.09	\$0.03	\$0.62
Infant Mortality	\$0.23	\$0.08	\$0.05	\$0.07	\$0.07	\$0.02	\$0.52
Lower Respiratory Symptoms	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.02
Minor Restricted Activity Days	\$1.15	\$0.4	\$0.24	\$0.34	\$0.36	\$0.13	\$2.61
Non-fatal Heart Attacks	\$0.35 - \$3.21	\$0.12 - \$1.13	\$0.07 - \$0.67	\$0.11 - \$0.98	\$0.11 - \$1.03	\$0.04 - \$0.37	\$0.8 - \$7.39
Respiratory Hospital Admissions	\$0.18	\$0.07	\$0.04	\$0.06	\$0.06	\$0.02	\$0.43
Upper Respiratory Symptoms	\$0.02	\$0.01	\$0.00	\$0.01	\$0.01	\$0.00	\$0.04
Work Loss Days	\$0.58	\$0.20	\$0.12	\$0.16	\$0.18	\$0.06	\$1.30
<b>Total</b>	<b>\$163 - \$368</b>	<b>\$58 - \$130</b>	<b>\$35 - \$79</b>	<b>\$48 - \$108</b>	<b>\$51 - \$115</b>	<b>\$18 - \$42</b>	<b>\$373 - \$842</b>

Table 11. Avoided Health Effects in NH due to RGGI

Health Endpoint	Cases Avoided due to RGGI						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	4	1	1	1	1	1	9
Adult Mortality	3 - 7	1 - 2	1 - 2	1 - 1	1 - 2	1 - 1	7 - 15
Asthma ER Visits	1	<1	<1	<1	<1	<1	3
Asthma Exacerbations	81	27	19	17	21	13	178
Cardiovascular Hospital Admissions	1	<1	<1	<1	<1	<1	2
Infant Mortality	<1	<1	<1	<1	<1	<1	<1
Lower Respiratory Symptoms	53	18	12	11	14	9	117
Minor Restricted Activity Days	2,355	797	565	500	653	397	5,267
Non-fatal Heart Attacks	0.39 - 4	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	1 - 8
Respiratory Hospital Admissions	1	<1	<1	<1	<1	<1	1
Upper Respiratory Symptoms	76	25	18	16	20	12	168
Work Loss Days	391	132	93	82	108	65	872

Table 12. Valuation of Avoided Health Effects in NH due to RGGI

Health Endpoint	Million 2015 dollars, 3% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Adult Mortality	\$29 - \$67	\$10 - \$22	\$7 - \$16	\$6 - \$13	\$8 - \$17	\$5 - \$11	\$65 - \$146
Asthma ER Visits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Asthma Exacerbations	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Cardiovascular Hospital Admissions	\$0.04	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.08
Infant Mortality	\$0.04	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.08
Lower Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Minor Restricted Activity Days	\$0.20	\$0.07	\$0.05	\$0.04	\$0.05	\$0.03	\$0.43
Non-fatal Heart Attacks	\$0.07 - \$0.61	\$0.02 - \$0.21	\$0.02 - \$0.14	\$0.01 - \$0.13	\$0.02 - \$0.16	\$0.01 - \$0.1	\$0.15 - \$1.35
Respiratory Hospital Admissions	\$0.02	\$0.01	\$0.01	\$0.01	\$0.01	\$0.00	\$0.05
Upper Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Work Loss Days	\$0.09	\$0.03	\$0.02	\$0.02	\$0.02	\$0.01	\$0.19
<b>Total</b>	<b>\$30 - \$68</b>	<b>\$10 - \$23</b>	<b>\$7 - \$16</b>	<b>\$6 - \$13</b>	<b>\$8 - \$18</b>	<b>\$5 - \$11</b>	<b>\$66 - \$148</b>
Health Endpoint	Million 2015 dollars, 7% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Adult Mortality	\$33 - \$74	\$11 - \$24	\$7 - \$16	\$6 - \$13	\$7 - \$17	\$4 - \$10	\$68 - \$155
Asthma ER Visits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Asthma Exacerbations	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Cardiovascular Hospital Admissions	\$0.05	\$0.02	\$0.01	\$0.01	\$0.01	\$0.01	\$0.10
Infant Mortality	\$0.05	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.09
Lower Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Minor Restricted Activity Days	\$0.25	\$0.08	\$0.05	\$0.04	\$0.05	\$0.03	\$0.52
Non-fatal Heart Attacks	\$0.08 - \$0.75	\$0.03 - \$0.24	\$0.02 - \$0.16	\$0.01 - \$0.14	\$0.02 - \$0.17	\$0.01 - \$0.1	\$0.17 - \$1.56
Respiratory Hospital Admissions	\$0.03	\$0.01	\$0.01	\$0.01	\$0.01	\$0.00	\$0.06
Upper Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Work Loss Days	\$0.11	\$0.04	\$0.02	\$0.02	\$0.02	\$0.01	\$0.23
<b>Total</b>	<b>\$34 - \$76</b>	<b>\$11 - \$25</b>	<b>\$7 - \$17</b>	<b>\$6 - \$13</b>	<b>\$8 - \$17</b>	<b>\$4 - \$10</b>	<b>\$70 - \$157</b>

**Table 13. Avoided Health Effects in NY due to RGGI**

Health Endpoint	Cases Avoided due to RGGI						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	57	11	5	12	16	11	<b>113</b>
Adult Mortality	38 - 86	8 - 18	4 - 8	9 - 20	12 - 26	8 - 18	<b>78 - 177</b>
Asthma ER Visits	34	7	3	6	9	6	<b>64</b>
Asthma Exacerbations	1,115	224	99	232	311	211	<b>2,193</b>
Cardiovascular Hospital Admissions	13	3	1	3	4	3	<b>26</b>
Infant Mortality	<1	<1	<1	<1	<1	<1	<b>&lt;1</b>
Lower Respiratory Symptoms	729	145	65	153	207	141	<b>1,439</b>
Minor Restricted Activity Days	31,949	6,528	2,887	6,859	9,231	6,275	<b>63,729</b>
Non-fatal Heart Attacks	4.01 - 37	1 - 8	0 - 4	1 - 9	1 - 12	1 - 8	<b>8 - 78</b>
Respiratory Hospital Admissions	11	2	1	2	3	2	<b>21</b>
Upper Respiratory Symptoms	1,040	208	93	218	295	201	<b>2,055</b>
Work Loss Days	5,378	1,096	483	1,147	1,545	1,050	<b>10,698</b>

Table 14. Valuation of Avoided Health Effects in NY due to RGGI

Health Endpoint	Million 2015 dollars, 3% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.03	\$0.01	\$0.00	\$0.01	\$0.01	\$0.01	\$0.07
Adult Mortality	\$388 - \$880	\$80 - \$181	\$37 - \$83	\$83 - \$187	\$108 - \$245	\$73 - \$166	\$769 - \$1742
Asthma ER Visits	\$0.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.04
Asthma Exacerbations	\$0.08	\$0.02	\$0.01	\$0.02	\$0.02	\$0.01	\$0.15
Cardiovascular Hospital Admissions	\$0.70	\$0.14	\$0.06	\$0.14	\$0.19	\$0.12	\$1.35
Infant Mortality	\$0.87	\$0.17	\$0.07	\$0.15	\$0.2	\$0.13	\$1.60
Lower Respiratory Symptoms	\$0.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.04
Minor Restricted Activity Days	\$2.74	\$0.54	\$0.23	\$0.54	\$0.71	\$0.47	\$5.24
Non-fatal Heart Attacks	\$0.67 - \$6.19	\$0.14 - \$1.26	\$0.06 - \$0.57	\$0.15 - \$1.35	\$0.19 - \$1.76	\$0.13 - \$1.18	\$1.33 - \$12.32
Respiratory Hospital Admissions	\$0.37	\$0.07	\$0.03	\$0.08	\$0.10	\$0.07	\$0.73
Upper Respiratory Symptoms	\$0.04	\$0.01	\$0.00	\$0.01	\$0.01	\$0.01	\$0.08
Work Loss Days	\$1.29	\$0.25	\$0.11	\$0.25	\$0.32	\$0.21	\$2.43
<b>Total</b>	<b>\$395 - \$892</b>	<b>\$81 - \$183</b>	<b>\$37 - \$84</b>	<b>\$84 - \$190</b>	<b>\$110 - \$249</b>	<b>\$75 - \$169</b>	<b>\$782 - \$1766</b>
Health Endpoint	Million 2015 dollars, 7% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.04	\$0.01	\$0.00	\$0.01	\$0.01	\$0.01	\$0.08
Adult Mortality	\$435 - \$985	\$86 - \$195	\$38 - \$86	\$82 - \$187	\$104 - \$236	\$68 - \$154	\$813 - \$1842
Asthma ER Visits	\$0.03	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.04
Asthma Exacerbations	\$0.1	\$0.02	\$0.01	\$0.02	\$0.02	\$0.01	\$0.18
Cardiovascular Hospital Admissions	\$0.88	\$0.17	\$0.07	\$0.16	\$0.20	\$0.13	\$1.61
Infant Mortality	\$1.09	\$0.20	\$0.08	\$0.17	\$0.22	\$0.14	\$1.91
Lower Respiratory Symptoms	\$0.02	\$0.00	\$0.00	\$0.00	\$0.01	\$0.00	\$0.04
Minor Restricted Activity Days	\$3.44	\$0.66	\$0.27	\$0.61	\$0.77	\$0.49	\$6.24
Non-fatal Heart Attacks	\$0.81 - \$7.57	\$0.16 - \$1.48	\$0.07 - \$0.65	\$0.16 - \$1.48	\$0.2 - \$1.85	\$0.13 - \$1.19	\$1.53 - \$14.22
Respiratory Hospital Admissions	\$0.47	\$0.09	\$0.04	\$0.09	\$0.11	\$0.07	\$0.86
Upper Respiratory Symptoms	\$0.05	\$0.01	\$0.00	\$0.01	\$0.01	\$0.01	\$0.10
Work Loss Days	\$1.62	\$0.31	\$0.12	\$0.28	\$0.35	\$0.22	\$2.90
<b>Total</b>	<b>\$443 - \$1000</b>	<b>\$88 - \$197</b>	<b>\$39 - \$87</b>	<b>\$84 - \$190</b>	<b>\$106 - \$239</b>	<b>\$69 - \$156</b>	<b>\$829 - \$1870</b>

**Table 15. Avoided Health Effects in NJ due to RGGI**

Health Endpoint	Cases Avoided due to RGGI						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	48	7	3	8	12	8	<b>86</b>
Adult Mortality	32 - 73	5 - 11	2 - 4	6 - 12	9 - 20	6 - 13	<b>59 - 134</b>
Asthma ER Visits	21	3	1	3	5	3	<b>37</b>
Asthma Exacerbations	905	137	49	153	235	151	<b>1,629</b>
Cardiovascular Hospital Admissions	12	2	1	2	3	2	<b>22</b>
Infant Mortality	<1	<1	<1	<1	<1	<1	<b>&lt;1</b>
Lower Respiratory Symptoms	609	92	33	102	159	102	<b>1,097</b>
Minor Restricted Activity Days	25,435	3,909	1,367	4,243	6,583	4,234	<b>45,770</b>
Non-fatal Heart Attacks	3.68 - 34	1 - 5	0 - 2	1 - 6	1 - 9	1 - 6	<b>7 - 63</b>
Respiratory Hospital Admissions	9	1	<1	1	2	2	<b>16</b>
Upper Respiratory Symptoms	869	131	47	146	227	146	<b>1,566</b>
Work Loss Days	4,276	656	229	709	1,099	706	<b>7,676</b>

<sup>1</sup> New Jersey participated in RGGI from 2009-2011. The public health benefits reported here are from 2009-2014.



Table 16. Valuation of Avoided Health Effects in NJ due to RGGI

Health Endpoint	Million 2015 dollars, 3% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.03	\$0.00	\$0.00	\$0.00	\$0.01	\$0.00	<b>\$0.05</b>
Adult Mortality	\$329 - \$745	\$50 - \$114	\$18 - \$40	\$53 - \$119	\$82 - \$185	\$52 - \$117	<b>\$583 - \$1321</b>
Asthma ER Visits	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.02</b>
Asthma Exacerbations	\$0.07	\$0.01	\$0.00	\$0.01	\$0.02	\$0.01	<b>\$0.11</b>
Cardiovascular Hospital Admissions	\$0.64	\$0.09	\$0.03	\$0.10	\$0.15	\$0.10	<b>\$1.11</b>
Infant Mortality	\$0.64	\$0.09	\$0.03	\$0.09	\$0.13	\$0.08	<b>\$1.07</b>
Lower Respiratory Symptoms	\$0.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.03</b>
Minor Restricted Activity Days	\$2.18	\$0.33	\$0.11	\$0.34	\$0.51	\$0.32	<b>\$3.78</b>
Non-fatal Heart Attacks	\$0.61 - \$5.71	\$0.09 - \$0.86	\$0.03 - \$0.3	\$0.1 - \$0.92	\$0.15 - \$1.41	\$0.1 - \$0.89	<b>\$1.08 - \$10.08</b>
Respiratory Hospital Admissions	\$0.32	\$0.05	\$0.02	\$0.05	\$0.08	\$0.05	<b>\$0.56</b>
Upper Respiratory Symptoms	\$0.04	\$0.01	\$0.00	\$0.01	\$0.01	\$0.01	<b>\$0.06</b>
Work Loss Days	\$1.12	\$0.17	\$0.06	\$0.17	\$0.26	\$0.16	<b>\$1.93</b>
<b>Total</b>	<b>\$334 - \$756</b>	<b>\$51 - \$115</b>	<b>\$18 - \$41</b>	<b>\$54 - \$121</b>	<b>\$83 - \$187</b>	<b>\$53 - \$119</b>	<b>\$593 - \$1340</b>
Health Endpoint	Million 2015 dollars, 7% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.04	\$0.01	\$0.00	\$0.01	\$0.01	\$0.00	<b>\$0.06</b>
Adult Mortality	\$368 - \$834	\$54 - \$123	\$18 - \$42	\$53 - \$119	\$78 - \$178	\$48 - \$109	<b>\$620 - \$1404</b>
Asthma ER Visits	\$0.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.02</b>
Asthma Exacerbations	\$0.08	\$0.01	\$0.00	\$0.01	\$0.02	\$0.01	<b>\$0.14</b>
Cardiovascular Hospital Admissions	\$0.8	\$0.11	\$0.04	\$0.11	\$0.16	\$0.10	<b>\$1.33</b>
Infant Mortality	\$0.81	\$0.11	\$0.04	\$0.10	\$0.14	\$0.09	<b>\$1.28</b>
Lower Respiratory Symptoms	\$0.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.03</b>
Minor Restricted Activity Days	\$2.74	\$0.39	\$0.13	\$0.38	\$0.55	\$0.33	<b>\$4.52</b>
Non-fatal Heart Attacks	\$0.75 - \$6.97	\$0.11 - \$1.01	\$0.04 - \$0.34	\$0.11 - \$1	\$0.16 - \$1.48	\$0.1 - \$0.9	<b>\$1.26 - \$11.7</b>
Respiratory Hospital Admissions	\$0.41	\$0.06	\$0.02	\$0.06	\$0.08	\$0.05	<b>\$0.67</b>
Upper Respiratory Symptoms	\$0.05	\$0.01	\$0.00	\$0.01	\$0.01	\$0.01	<b>\$0.08</b>
Work Loss Days	\$1.41	\$0.20	\$0.07	\$0.19	\$0.28	\$0.17	<b>\$2.31</b>
<b>Total</b>	<b>\$375 - \$847</b>	<b>\$55 - \$125</b>	<b>\$19 - \$42</b>	<b>\$54 - \$121</b>	<b>\$80 - \$180</b>	<b>\$49 - \$110</b>	<b>\$631 - \$1426</b>

Table 17. Avoided Health Effects in RI due to RGGI

Health Endpoint	Cases Avoided due to RGGI						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	3	1	1	1	1	1	7
Adult Mortality	3 - 6	1 - 2	0 - 1	1 - 2	1 - 2	0 - 1	6 - 14
Asthma ER Visits	2	1	<1	<1	1	<1	4
Asthma Exacerbations	65	21	11	19	22	10	149
Cardiovascular Hospital Admissions	1	<1	<1	<1	<1	<1	2
Infant Mortality	<1	<1	<1	<1	<1	<1	<1
Lower Respiratory Symptoms	41	13	7	13	14	6	95
Minor Restricted Activity Days	1,862	613	341	594	670	299	4,380
Non-fatal Heart Attacks	0.29 - 3	0 - 1	0 - 0	0 - 1	0 - 1	0 - 0	1 - 6
Respiratory Hospital Admissions	1	<1	<1	<1	<1	<1	2
Upper Respiratory Symptoms	58	19	10	18	21	9	135
Work Loss Days	311	102	57	99	111	50	729

Table 18. Valuation of Avoided Health Effects in RI due to RGGI

Health Endpoint	Million 2015 dollars, 3% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Adult Mortality	\$27 - \$61	\$9 - \$20	\$5 - \$11	\$8 - \$18	\$9 - \$20	\$4 - \$9	\$61 - \$138
Asthma ER Visits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Asthma Exacerbations	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Cardiovascular Hospital Admissions	\$0.04	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.09
Infant Mortality	\$0.03	\$0.01	\$0.01	\$0.01	\$0.01	\$0.00	\$0.07
Lower Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Minor Restricted Activity Days	\$0.16	\$0.05	\$0.03	\$0.05	\$0.05	\$0.02	\$0.36
Non-fatal Heart Attacks	\$0.05 - \$0.44	\$0.02 - \$0.14	\$0.01 - \$0.08	\$0.01 - \$0.13	\$0.02 - \$0.15	\$0.01 - \$0.06	\$0.11 - \$1
Respiratory Hospital Admissions	\$0.03	\$0.01	\$0.00	\$0.01	\$0.01	\$0.00	\$0.06
Upper Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Work Loss Days	\$0.07	\$0.02	\$0.01	\$0.02	\$0.02	\$0.01	\$0.16
<b>Total</b>	<b>\$27 - \$62</b>	<b>\$9 - \$20</b>	<b>\$5 - \$11</b>	<b>\$8 - \$18</b>	<b>\$9 - \$20</b>	<b>\$4 - \$9</b>	<b>\$62 - \$140</b>
Health Endpoint	Million 2015 dollars, 7% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Adult Mortality	\$30 - \$68	\$9 - \$21	\$5 - \$11	\$8 - \$18	\$8 - \$19	\$4 - \$8	\$64 - \$146
Asthma ER Visits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Asthma Exacerbations	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Cardiovascular Hospital Admissions	\$0.05	\$0.02	\$0.01	\$0.01	\$0.01	\$0.01	\$0.11
Infant Mortality	\$0.04	\$0.01	\$0.01	\$0.01	\$0.01	\$0.00	\$0.08
Lower Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Minor Restricted Activity Days	\$0.2	\$0.06	\$0.03	\$0.05	\$0.06	\$0.02	\$0.43
Non-fatal Heart Attacks	\$0.06 - \$0.53	\$0.02 - \$0.17	\$0.01 - \$0.09	\$0.02 - \$0.14	\$0.02 - \$0.15	\$0.01 - \$0.06	\$0.12 - \$1.15
Respiratory Hospital Admissions	\$0.03	\$0.01	\$0.01	\$0.01	\$0.01	\$0.00	\$0.07
Upper Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Work Loss Days	\$0.09	\$0.03	\$0.01	\$0.02	\$0.02	\$0.01	\$0.19
<b>Total</b>	<b>\$31 - \$69</b>	<b>\$10 - \$22</b>	<b>\$5 - \$11</b>	<b>\$8 - \$18</b>	<b>\$9 - \$19</b>	<b>\$4 - \$8</b>	<b>\$65 - \$148</b>

Table 19. Avoided Health Effects in VT due to RGGI

Health Endpoint	Cases Avoided due to RGGI						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	2	<1	<1	<1	1	<1	4
Adult Mortality	1 - 3	0 - 1	0 - 0	0 - 1	1 - 1	0 - 1	3 - 7
Asthma ER Visits	<1	<1	<1	<1	<1	<1	1
Asthma Exacerbations	33	9	5	9	12	8	77
Cardiovascular Hospital Admissions	<1	<1	<1	<1	<1	<1	1
Infant Mortality	<1	<1	<1	<1	<1	<1	<1
Lower Respiratory Symptoms	21	6	3	6	8	5	49
Minor Restricted Activity Days	986	266	166	285	393	260	2,356
Non-fatal Heart Attacks	0.12 - 1	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 3
Respiratory Hospital Admissions	<1	<1	<1	<1	<1	<1	1
Upper Respiratory Symptoms	30	8	5	8	12	8	71
Work Loss Days	163	44	27	47	65	43	389

Table 20. Valuation of Avoided Health Effects in VT due to RGGI

Health Endpoint	Million 2015 dollars, 3% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Adult Mortality	\$13 - \$29	\$3 - \$8	\$2 - \$5	\$3 - \$8	\$5 - \$11	\$3 - \$7	\$30 - \$67
Asthma ER Visits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Asthma Exacerbations	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Cardiovascular Hospital Admissions	\$0.01	\$0.00	\$0.00	\$0.00	\$0.01	\$0.00	\$0.03
Infant Mortality	\$0.02	\$0.01	\$0.00	\$0.01	\$0.01	\$0.01	\$0.05
Lower Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Minor Restricted Activity Days	\$0.08	\$0.02	\$0.01	\$0.02	\$0.03	\$0.02	\$0.19
Non-fatal Heart Attacks	\$0.02 - \$0.19	\$0.01 - \$0.05	\$0 - \$0.03	\$0.01 - \$0.05	\$0.01 - \$0.07	\$0.01 - \$0.05	\$0.05 - \$0.44
Respiratory Hospital Admissions	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.02
Upper Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Work Loss Days	\$0.03	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.08
<b>Total</b>	<b>\$13 - \$29</b>	<b>\$3 - \$8</b>	<b>\$2 - \$5</b>	<b>\$3 - \$8</b>	<b>\$5 - \$11</b>	<b>\$3 - \$7</b>	<b>\$30 - \$68</b>
Health Endpoint	Million 2015 dollars, 7% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Adult Mortality	\$14 - \$32	\$4 - \$8	\$2 - \$5	\$3 - \$8	\$5 - \$10	\$3 - \$7	\$31 - \$70
Asthma ER Visits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Asthma Exacerbations	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Cardiovascular Hospital Admissions	\$0.02	\$0.00	\$0.00	\$0.00	\$0.01	\$0.00	\$0.04
Infant Mortality	\$0.03	\$0.01	\$0.00	\$0.01	\$0.01	\$0.01	\$0.06
Lower Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Minor Restricted Activity Days	\$0.11	\$0.03	\$0.02	\$0.03	\$0.03	\$0.02	\$0.23
Non-fatal Heart Attacks	\$0.02 - \$0.23	\$0.01 - \$0.06	\$0 - \$0.03	\$0.01 - \$0.06	\$0.01 - \$0.08	\$0.01 - \$0.05	\$0.05 - \$0.50
Respiratory Hospital Admissions	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.03
Upper Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Work Loss Days	\$0.04	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.09
<b>Total</b>	<b>\$15 - \$33</b>	<b>\$4 - \$8</b>	<b>\$2 - \$5</b>	<b>\$4 - \$8</b>	<b>\$5 - \$11</b>	<b>\$3 - \$7</b>	<b>\$32 - \$71</b>

## Neighboring Northeast States

DC

Table 21. Avoided Health Effects in DC due to RGGI

Health Endpoint	Cases Avoided due to RGGI						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	1	<1	<1	<1	<1	<1	<b>2</b>
Adult Mortality	1 - 2	0 - 0	0 - 0	0 - 0	0 - 1	0 - 0	<b>2 - 4</b>
Asthma ER Visits	<1	<1	<1	<1	<1	<1	<b>1</b>
Asthma Exacerbations	19	3	1	3	6	4	<b>35</b>
Cardiovascular Hospital Admissions	<1	<1	<1	<1	<1	<1	<b>1</b>
Infant Mortality	<1	<1	<1	<1	<1	<1	<b>&lt;1</b>
Lower Respiratory Symptoms	11	1	1	2	4	2	<b>21</b>
Minor Restricted Activity Days	719	106	45	158	266	165	<b>1,458</b>
Non-fatal Heart Attacks	0.09 - 1	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	<b>0 - 2</b>
Respiratory Hospital Admissions	<1	<1	<1	<1	<1	<1	<b>&lt;1</b>
Upper Respiratory Symptoms	15	2	1	3	5	3	<b>30</b>
Work Loss Days	123	18	8	27	46	29	<b>251</b>

Table 22. Valuation of Avoided Health Effects in DC due to RGGI

Health Endpoint	Million 2015 dollars, 3% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
Adult Mortality	\$9 - \$21	\$1 - \$3	\$1 - \$1	\$2 - \$4	\$3 - \$7	\$2 - \$4	<b>\$17 - \$39</b>
Asthma ER Visits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
Asthma Exacerbations	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
Cardiovascular Hospital Admissions	\$0.02	\$0.00	\$0.00	\$0.00	\$0.01	\$0.00	<b>\$0.03</b>
Infant Mortality	\$0.04	\$0.01	\$0.00	\$0.01	\$0.01	\$0.01	<b>\$0.09</b>
Lower Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
Minor Restricted Activity Days	\$0.06	\$0.01	\$0.00	\$0.01	\$0.02	\$0.01	<b>\$0.12</b>
Non-fatal Heart Attacks	\$0.01 - \$0.13	\$0 - \$0.02	\$0 - \$0.01	\$0 - \$0.03	\$0 - \$0.04	\$0 - \$0.03	<b>\$0.03 - \$0.26</b>
Respiratory Hospital Admissions	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.01</b>
Upper Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
Work Loss Days	\$0.04	\$0.01	\$0.00	\$0.01	\$0.01	\$0.01	<b>\$0.07</b>
<b>Total</b>	<b>\$9 - \$21</b>	<b>\$1 - \$3</b>	<b>\$1 - \$1</b>	<b>\$2 - \$4</b>	<b>\$3 - \$7</b>	<b>\$2 - \$4</b>	<b>\$17 - \$40</b>
Health Endpoint	Million 2015 dollars, 7% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
Adult Mortality	\$10 - \$23	\$1 - \$3	\$1 - \$1	\$2 - \$4	\$3 - \$6	\$2 - \$4	<b>\$18 - \$41</b>
Asthma ER Visits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
Asthma Exacerbations	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
Cardiovascular Hospital Admissions	\$0.02	\$0.00	\$0.00	\$0.00	\$0.01	\$0.00	<b>\$0.04</b>
Infant Mortality	\$0.06	\$0.01	\$0.00	\$0.01	\$0.02	\$0.01	<b>\$0.1</b>
Lower Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
Minor Restricted Activity Days	\$0.08	\$0.01	\$0.00	\$0.01	\$0.02	\$0.01	<b>\$0.14</b>
Non-fatal Heart Attacks	\$0.02 - \$0.16	\$0 - \$0.02	\$0 - \$0.01	\$0 - \$0.03	\$0 - \$0.05	\$0 - \$0.03	<b>\$0.03 - \$0.3</b>
Respiratory Hospital Admissions	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.02</b>
Upper Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
Work Loss Days	\$0.05	\$0.01	\$0.00	\$0.01	\$0.01	\$0.01	<b>\$0.08</b>
<b>Total</b>	<b>\$10 - \$23</b>	<b>\$1 - \$3</b>	<b>\$1 - \$1</b>	<b>\$2 - \$4</b>	<b>\$3 - \$6</b>	<b>\$2 - \$4</b>	<b>\$18 - \$42</b>

Table 23. Avoided Health Effects in PA due to RGGI

Health Endpoint	Cases Avoided due to RGGI						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	51	6	3	11	18	12	<b>101</b>
Adult Mortality	41 - 93	5 - 12	3 - 6	9 - 20	14 - 32	10 - 23	<b>82 - 185</b>
Asthma ER Visits	24	3	1	5	8	6	<b>47</b>
Asthma Exacerbations	997	127	58	206	333	236	<b>1,958</b>
Cardiovascular Hospital Admissions	12	2	1	3	4	3	<b>25</b>
Infant Mortality	<1	<1	<1	<1	<1	<1	<b>&lt;1</b>
Lower Respiratory Symptoms	651	83	38	137	223	159	<b>1,292</b>
Minor Restricted Activity Days	27,647	3,576	1,665	5,890	9,500	6,720	<b>54,999</b>
Non-fatal Heart Attacks	4.13 - 38	1 - 5	0 - 2	1 - 8	1 - 14	1 - 10	<b>8 - 78</b>
Respiratory Hospital Admissions	9	1	1	2	3	2	<b>18</b>
Upper Respiratory Symptoms	929	118	55	196	319	227	<b>1,845</b>
Work Loss Days	4,620	596	277	981	1,582	1,120	<b>9,177</b>



Table 24. Valuation of Avoided Health Effects in PA due to RGGI

Health Endpoint	Million 2015 dollars, 3% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.03	\$0.00	\$0.00	\$0.01	\$0.01	\$0.01	<b>\$0.06</b>
Adult Mortality	\$420 - \$951	\$54 - \$123	\$25 - \$57	\$83 - \$187	\$132 - \$298	\$92 - \$209	<b>\$805 - \$1825</b>
Asthma ER Visits	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.03</b>
Asthma Exacerbations	\$0.07	\$0.01	\$0.00	\$0.01	\$0.02	\$0.02	<b>\$0.14</b>
Cardiovascular Hospital Admissions	\$0.67	\$0.09	\$0.04	\$0.13	\$0.21	\$0.15	<b>\$1.28</b>
Infant Mortality	\$0.88	\$0.11	\$0.05	\$0.16	\$0.26	\$0.18	<b>\$1.63</b>
Lower Respiratory Symptoms	\$0.02	\$0.00	\$0.00	\$0.00	\$0.01	\$0.00	<b>\$0.03</b>
Minor Restricted Activity Days	\$2.37	\$0.30	\$0.14	\$0.47	\$0.73	\$0.50	<b>\$4.51</b>
Non-fatal Heart Attacks	\$0.69 - \$6.38	\$0.09 - \$0.83	\$0.04 - \$0.38	\$0.14 - \$1.3	\$0.22 - \$2.05	\$0.15 - \$1.43	<b>\$1.33 - \$12.37</b>
Respiratory Hospital Admissions	\$0.31	\$0.04	\$0.02	\$0.06	\$0.10	\$0.07	<b>\$0.59</b>
Upper Respiratory Symptoms	\$0.04	\$0.00	\$0.00	\$0.01	\$0.01	\$0.01	<b>\$0.07</b>
Work Loss Days	\$1.04	\$0.13	\$0.06	\$0.20	\$0.31	\$0.22	<b>\$1.96</b>
<b>Total</b>	<b>\$426 - \$963</b>	<b>\$55 - \$124</b>	<b>\$25 - \$57</b>	<b>\$84 - \$189</b>	<b>\$134 - \$302</b>	<b>\$94 - \$212</b>	<b>\$817 - \$1848</b>
Health Endpoint	Million 2015 dollars, 7% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.04	\$0.00	\$0.00	\$0.01	\$0.01	\$0.01	<b>\$0.07</b>
Adult Mortality	\$470 - \$1065	\$58 - \$132	\$26 - \$59	\$82 - \$187	\$127 - \$287	\$85 - \$193	<b>\$849 - \$1923</b>
Asthma ER Visits	\$0.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.03</b>
Asthma Exacerbations	\$0.09	\$0.01	\$0.00	\$0.02	\$0.02	\$0.02	<b>\$0.16</b>
Cardiovascular Hospital Admissions	\$0.84	\$0.10	\$0.05	\$0.15	\$0.23	\$0.15	<b>\$1.51</b>
Infant Mortality	\$1.11	\$0.13	\$0.06	\$0.18	\$0.28	\$0.18	<b>\$1.94</b>
Lower Respiratory Symptoms	\$0.02	\$0.00	\$0.00	\$0.00	\$0.01	\$0.00	<b>\$0.04</b>
Minor Restricted Activity Days	\$2.98	\$0.36	\$0.16	\$0.52	\$0.79	\$0.52	<b>\$5.34</b>
Non-fatal Heart Attacks	\$0.84 - \$7.81	\$0.1 - \$0.97	\$0.05 - \$0.43	\$0.15 - \$1.42	\$0.23 - \$2.15	\$0.15 - \$1.44	<b>\$1.53 - \$14.22</b>
Respiratory Hospital Admissions	\$0.39	\$0.05	\$0.02	\$0.07	\$0.10	\$0.07	<b>\$0.70</b>
Upper Respiratory Symptoms	\$0.05	\$0.01	\$0.00	\$0.01	\$0.01	\$0.01	<b>\$0.09</b>
Work Loss Days	\$1.31	\$0.16	\$0.07	\$0.22	\$0.34	\$0.22	<b>\$2.32</b>
<b>Total</b>	<b>\$478 - \$1080</b>	<b>\$59 - \$134</b>	<b>\$26 - \$60</b>	<b>\$84 - \$189</b>	<b>\$129 - \$291</b>	<b>\$87 - \$196</b>	<b>\$862 - \$1949</b>

Table 25. Avoided Health Effects in VA due to RGGI

Health Endpoint	Cases Avoided due to RGGI						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	20	3	1	4	7	5	<b>40</b>
Adult Mortality	12 - 27	1 - 3	1 - 1	2 - 6	4 - 9	3 - 6	<b>23 - 53</b>
Asthma ER Visits	6	1	<1	1	2	1	<b>12</b>
Asthma Exacerbations	384	48	21	81	136	92	<b>761</b>
Cardiovascular Hospital Admissions	5	1	<1	1	2	1	<b>10</b>
Infant Mortality	<1	<1	<1	<1	<1	<1	<b>&lt;1</b>
Lower Respiratory Symptoms	256	32	14	54	92	62	<b>511</b>
Minor Restricted Activity Days	10,825	1,368	599	2,298	3,841	2,583	<b>21,514</b>
Non-fatal Heart Attacks	1.43 - 13	0 - 2	0 - 1	0 - 3	1 - 5	0 - 3	<b>3 - 27</b>
Respiratory Hospital Admissions	4	<1	<1	1	1	1	<b>7</b>
Upper Respiratory Symptoms	365	46	20	78	131	89	<b>729</b>
Work Loss Days	1,823	230	101	386	646	434	<b>3,621</b>

Table 26. Valuation of Avoided Health Effects in VA due to RGGI

Health Endpoint	Million 2015 dollars, 3% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.02
Adult Mortality	\$120 - \$272	\$15 - \$33	\$6 - \$15	\$23 - \$53	\$39 - \$88	\$26 - \$60	\$229 - \$520
Asthma ER Visits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Asthma Exacerbations	\$0.03	\$0.00	\$0.00	\$0.01	\$0.01	\$0.01	\$0.05
Cardiovascular Hospital Admissions	\$0.26	\$0.03	\$0.01	\$0.05	\$0.09	\$0.06	\$0.50
Infant Mortality	\$0.39	\$0.05	\$0.02	\$0.07	\$0.12	\$0.08	\$0.72
Lower Respiratory Symptoms	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Minor Restricted Activity Days	\$0.93	\$0.11	\$0.05	\$0.18	\$0.3	\$0.19	\$1.76
Non-fatal Heart Attacks	\$0.24 - \$2.25	\$0.03 - \$0.28	\$0.01 - \$0.12	\$0.05 - \$0.46	\$0.08 - \$0.75	\$0.05 - \$0.5	\$0.47 - \$4.36
Respiratory Hospital Admissions	\$0.13	\$0.02	\$0.01	\$0.03	\$0.04	\$0.03	\$0.25
Upper Respiratory Symptoms	\$0.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.03
Work Loss Days	\$0.47	\$0.06	\$0.02	\$0.09	\$0.15	\$0.10	\$0.89
<b>Total</b>	<b>\$122 - \$276</b>	<b>\$15 - \$34</b>	<b>\$7 - \$15</b>	<b>\$24 - \$54</b>	<b>\$40 - \$90</b>	<b>\$27 - \$60</b>	<b>\$234 - \$529</b>
Health Endpoint	Million 2015 dollars, 7% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.03
Adult Mortality	\$134 - \$304	\$16 - \$36	\$7 - \$15	\$23 - \$53	\$37 - \$85	\$24 - \$55	\$242 - \$548
Asthma ER Visits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01
Asthma Exacerbations	\$0.04	\$0.00	\$0.00	\$0.01	\$0.01	\$0.01	\$0.06
Cardiovascular Hospital Admissions	\$0.32	\$0.04	\$0.02	\$0.06	\$0.09	\$0.06	\$0.59
Infant Mortality	\$0.49	\$0.06	\$0.02	\$0.08	\$0.13	\$0.08	\$0.85
Lower Respiratory Symptoms	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.02
Minor Restricted Activity Days	\$1.17	\$0.14	\$0.06	\$0.20	\$0.32	\$0.20	\$2.09
Non-fatal Heart Attacks	\$0.3 - \$2.75	\$0.04 - \$0.33	\$0.01 - \$0.14	\$0.05 - \$0.5	\$0.08 - \$0.79	\$0.05 - \$0.5	\$0.54 - \$5
Respiratory Hospital Admissions	\$0.16	\$0.02	\$0.01	\$0.03	\$0.05	\$0.03	\$0.29
Upper Respiratory Symptoms	\$0.02	\$0.00	\$0.00	\$0.00	\$0.01	\$0.00	\$0.03
Work Loss Days	\$0.59	\$0.07	\$0.03	\$0.10	\$0.16	\$0.10	\$1.05
<b>Total</b>	<b>\$137 - \$310</b>	<b>\$16 - \$37</b>	<b>\$7 - \$15</b>	<b>\$24 - \$54</b>	<b>\$38 - \$86</b>	<b>\$25 - \$56</b>	<b>\$247 - \$558</b>

Table 27. Avoided Health Effects in WV due to RGGI

Health Endpoint	Cases Avoided due to RGGI						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	2	<1	<1	<1	1	<1	4
Adult Mortality	2 - 4	0 - 0	0 - 0	0 - 1	1 - 1	0 - 1	3 - 8
Asthma ER Visits	1	<1	<1	<1	<1	<1	1
Asthma Exacerbations	37	4	2	8	12	9	72
Cardiovascular Hospital Admissions	1	<1	<1	<1	<1	<1	1
Infant Mortality	<1	<1	<1	<1	<1	<1	<1
Lower Respiratory Symptoms	24	3	2	5	8	6	48
Minor Restricted Activity Days	1,100	133	73	234	359	257	2,154
Non-fatal Heart Attacks	0.25 - 2	0 - 0	0 - 0	0 - 0	0 - 1	0 - 1	0 - 5
Respiratory Hospital Admissions	1	<1	<1	<1	<1	<1	1
Upper Respiratory Symptoms	34	4	2	7	12	8	68
Work Loss Days	183	22	12	39	60	43	359

Table 28. Valuation of Avoided Health Effects in WV due to RGGI

Health Endpoint	Million 2015 dollars, 3% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
Adult Mortality	\$18 - \$41	\$2 - \$5	\$1 - \$3	\$3 - \$8	\$5 - \$12	\$4 - \$9	<b>\$34 - \$77</b>
Asthma ER Visits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
Asthma Exacerbations	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
Cardiovascular Hospital Admissions	\$0.03	\$0.00	\$0.00	\$0.01	\$0.01	\$0.01	<b>\$0.06</b>
Infant Mortality	\$0.04	\$0.01	\$0.00	\$0.01	\$0.01	\$0.01	<b>\$0.08</b>
Lower Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
Minor Restricted Activity Days	\$0.09	\$0.01	\$0.01	\$0.02	\$0.03	\$0.02	<b>\$0.18</b>
Non-fatal Heart Attacks	\$0.04 - \$0.38	\$0 - \$0.05	\$0 - \$0.02	\$0.01 - \$0.08	\$0.01 - \$0.12	\$0.01 - \$0.08	<b>\$0.08 - \$0.73</b>
Respiratory Hospital Admissions	\$0.02	\$0.00	\$0.00	\$0.00	\$0.01	\$0.00	<b>\$0.04</b>
Upper Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
Work Loss Days	\$0.04	\$0.00	\$0.00	\$0.01	\$0.01	\$0.01	<b>\$0.07</b>
<b>Total</b>	<b>\$18 - \$42</b>	<b>\$2 - \$5</b>	<b>\$1 - \$3</b>	<b>\$4 - \$8</b>	<b>\$5 - \$12</b>	<b>\$4 - \$9</b>	<b>\$35 - \$78</b>
Health Endpoint	Million 2015 dollars, 7% discount rate						
	2009	2010	2011	2012	2013	2014	Total
Acute Bronchitis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
Adult Mortality	\$20 - \$46	\$2 - \$5	\$1 - \$3	\$3 - \$8	\$5 - \$12	\$4 - \$8	<b>\$36 - \$81</b>
Asthma ER Visits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
Asthma Exacerbations	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.01</b>
Cardiovascular Hospital Admissions	\$0.04	\$0.00	\$0.00	\$0.01	\$0.01	\$0.01	<b>\$0.07</b>
Infant Mortality	\$0.05	\$0.01	\$0.00	\$0.01	\$0.01	\$0.01	<b>\$0.10</b>
Lower Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
Minor Restricted Activity Days	\$0.12	\$0.01	\$0.01	\$0.02	\$0.03	\$0.02	<b>\$0.21</b>
Non-fatal Heart Attacks	\$0.05 - \$0.47	\$0.01 - \$0.05	\$0 - \$0.03	\$0.01 - \$0.08	\$0.01 - \$0.12	\$0.01 - \$0.08	<b>\$0.09 - \$0.84</b>
Respiratory Hospital Admissions	\$0.03	\$0.00	\$0.00	\$0.01	\$0.01	\$0.01	<b>\$0.05</b>
Upper Respiratory Symptoms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
Work Loss Days	\$0.04	\$0.00	\$0.00	\$0.01	\$0.01	\$0.01	<b>\$0.08</b>
<b>Total</b>	<b>\$21 - \$47</b>	<b>\$2 - \$5</b>	<b>\$1 - \$3</b>	<b>\$4 - \$8</b>	<b>\$5 - \$12</b>	<b>\$4 - \$8</b>	<b>\$37 - \$83</b>