

**ENVIRONMENTAL EXTERNALITY VALUES
UPDATED THROUGH 2007**

URBAN

	Original (1995 \$/ton)		Inflation Adjusted Values GDPI (2007 \$/ton)	
	Range of Values		Range of Values	
	Low	High	Low	High
SO2	112	189	0	0
PM10	4462	6423	5800.6	8349.9
CO	1.06	2.27	1.378	2.951
NO _x	371	978	482.3	1271.4
Pb	3131	3875	4070.3	5037.5
CO ₂	.3	3.11	0.39	4.03

METROPOLITAN FRINGE

	Original (1995 \$/ton)		Inflation Adjusted Values GDPI (2007 \$/ton)	
	Range of Values		Range of Values	
	Low	High	Low	High
SO2	46	110	0	0
PM10	1987	2886	2583.1	3752
CO	.76	1.34	0.988	1.74
NO _x	140	266	182	346
Pb	1652	1995	2147.6	2594
CO ₂	0.3	3.1	0.39	4.03

RURAL

	Original (1995 \$/ton)		Inflation Adjusted Values GDPI (2007 \$/ton)	
	Range of Values		Range of Values	
	Low	High	Low	High
SO2	10	25	0	0
PM10	562.00	855.00	730.60	1111.50
CO	0.21	0.41	0.27	0.53
NO _x	18	102	23.40	132.60
Pb	402.00	448.00	522.60	582.40
CO ₂	0.3	3.1	0.39	4.03

WITHIN 200 MILES OF MINNESOTA

Original (1995 \$/ton)

**Inflation Adjusted Values
GDPI (2007 \$/ton)**

Range of Values

Range of Values

Low

High

Low

High

	Low	High	Low	High
SO ₂	10	25	0	0
PM ₁₀	562	855	730.60	1111.50
CO	0.21	0.41	0.27	0.53
NO _x	18.00	102.00	23.40	132.60
Pb	402.00	448.00	522.60	582.40
CO ₂	0	0	0	0

NOTE REGARDING THE USE OF SO₂ VALUES: In the January 3, 1997 Order Establishing Environmental Cost Values the Commission found that SO₂ damages would be internalized after 2000 and applying externality costs would be unwarranted.

NOTE REGARDING THE USE OF CARBON DIOXIDE VALUES: In its December 21, 2007 Order Establishing Estimate of Future Carbon Dioxide Regulation Costs, pursuant to Minn. Stat. §216H.06, the Commission established an estimate of the likely range of costs of future carbon dioxide regulation on electricity generation of \$4/ton to \$30/ton for CO₂ emitted in 2012 and thereafter. This range of values will be updated annually. A utility need not apply the CO₂ externality values in the above tables established pursuant to Minn. Stat. §216B.2422, subd. 3, in any year to which the utility applies the CO₂ costs derived pursuant to Minn. Stat. §216H.06.