

Massachusetts

EPA Sector Aggregation

Emissions (MMTCO2E)	1990	1991	1992	1993	1994	1995	1996	1997
Energy	86.879	85.670	87.575	84.854	85.081	82.183	83.268	89.254
CO2 from Fossil Fuel Comb	83.923	82.653	84.552	81.858	82.080	79.192	80.261	86.506
Stationary Combustion	0.396	0.404	0.418	0.413	0.407	0.394	0.402	0.377
Mobile Combustion	0.971	0.999	1.029	1.023	1.035	1.041	1.070	1.056
Coal Mining	-	-	-	-	-	-	-	-
Natural Gas and Oil System:	1.588	1.614	1.577	1.560	1.558	1.556	1.535	1.314
Industrial Processes	0.637	0.604	0.594	0.815	0.927	1.200	1.467	1.708
Agriculture	0.371	0.357	0.366	0.361	0.352	0.342	0.339	0.338
Enteric Fermentation	0.125	0.122	0.125	0.121	0.117	0.112	0.106	0.104
Manure Management	0.036	0.035	0.034	0.033	0.031	0.030	0.029	0.029
Rice Cultivation	-	-	-	-	-	-	-	-
Agricultural Soil Managemer	0.211	0.200	0.207	0.207	0.203	0.200	0.204	0.205
Burning of Agricultural Crop	-	-	-	-	-	-	-	-
LUCF	-	-	-	-	-	-	-	-
Waste	4.905	4.485	4.295	4.352	4.139	4.108	4.372	3.478
Municipal Solid Waste	4.173	3.750	3.559	3.613	3.389	3.359	3.620	2.720
Wastewater	0.732	0.735	0.735	0.739	0.750	0.749	0.752	0.758
Gross Emissions	92.791	91.116	92.830	90.382	90.498	87.833	89.447	94.778

Source: EPA, EIA, DOER

CO2 from Fossil Fuel Combustion Detail

MMTCO2E	1990	1991	1992	1993	1994	1995	1996	1997
Residential	15.01	14.23	16.31	16.43	16.27	14.69	14.50	14.33
Coal	0.03	0.01	0.03	0.02	0.01	0.01	0.01	0.01
Petroleum	9.12	8.54	9.70	9.73	9.77	8.93	8.27	8.25
Natural Gas	5.86	5.67	6.59	6.69	6.50	5.75	6.22	6.07
Commercial	8.40	9.18	8.93	7.96	8.85	8.94	9.02	9.41
Coal	0.12	0.06	0.11	0.09	0.05	0.06	0.07	0.06
Petroleum	5.50	6.19	5.27	4.26	4.21	4.40	3.72	3.63
Natural Gas	2.78	2.93	3.55	3.61	4.59	4.47	5.23	5.72
Industrial	5.96	5.33	7.15	7.33	6.38	5.61	6.06	6.24
Coal	0.17	0.20	0.36	0.27	0.15	0.10	0.09	0.09
Petroleum	3.41	2.18	2.95	3.22	2.76	2.13	2.68	2.73
Natural Gas	2.38	2.96	3.84	3.85	3.47	3.38	3.29	3.42
Transportation	28.91	27.62	27.42	27.86	28.05	28.46	29.75	30.16
Coal	-	-	-	-	-	-	-	-
Petroleum	28.85	27.54	27.32	27.74	27.95	28.35	29.63	30.02
Natural Gas	0.07	0.08	0.10	0.12	0.10	0.10	0.12	0.13
Electric Power	25.64	26.29	24.75	22.27	22.53	21.50	20.94	26.38
Coal	10.36	10.79	10.01	8.97	9.34	9.71	10.49	11.35
Petroleum	11.90	12.16	10.62	9.05	7.72	4.81	4.85	8.63
Natural Gas	3.38	3.34	4.12	4.24	5.47	6.98	5.60	6.39
International Bunker Fuels	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Petroleum	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	83.92	82.65	84.55	81.86	82.08	79.19	80.26	86.51
Coal	10.68	11.06	10.52	9.35	9.54	9.88	10.66	11.51
Petroleum	58.77	56.61	55.84	54.00	52.40	48.63	49.14	53.26
Natural Gas	14.47	14.98	18.19	18.51	20.13	20.69	20.46	21.74

Source: EPA, EIA, DOER

1998	1999	2000	2001	2002	2003	2004
87.272	84.712	85.720	84.881	85.923	86.865	85.661
84.389	81.880	82.930	82.232	83.320	84.361	83.208
0.349	0.344	0.359	0.330	0.327	0.340	0.376
1.049	0.976	0.950	0.870	0.803	0.741	0.655
-	-	-	-	-	-	-
1.484	1.512	1.481	1.449	1.473	1.422	1.422
1.932	2.174	2.385	2.427	2.616	2.764	2.764
0.324	0.317	0.326	0.308	0.311	0.302	0.311
0.104	0.100	0.099	0.084	0.088	0.083	0.081
0.030	0.029	0.028	0.025	0.025	0.024	0.022
-	-	-	-	-	-	-
0.190	0.188	0.199	0.198	0.198	0.194	0.208
-	-	-	-	-	-	-
-	-	-	-	-	-	-
3.096	3.417	3.023	4.039	4.183	3.420	2.856
2.332	2.642	2.226	3.238	3.382	2.614	2.049
0.764	0.775	0.798	0.801	0.801	0.806	0.807
92.623	90.619	91.454	91.655	93.032	93.350	91.592

1998	1999	2000	2001	2002	2003	2004
13.15	13.96	15.53	15.88	15.88	16.18	14.94
0.01	0.01	0.00	0.00	0.02	0.02	0.01
7.65	8.01	9.21	9.96	9.76	9.16	8.71
5.49	5.94	6.32	5.91	6.09	7.00	6.22
8.02	6.14	6.69	5.67	5.86	7.00	6.54
0.06	0.09	0.04	0.03	0.18	0.11	0.07
3.11	2.39	3.13	2.22	2.07	3.42	3.33
4.85	3.66	3.53	3.42	3.61	3.48	3.14
6.16	6.79	6.54	7.16	7.11	4.81	4.65
0.08	0.08	0.14	0.14	0.11	0.14	0.14
2.78	2.45	2.38	2.66	2.34	2.28	2.17
3.30	4.26	4.02	4.36	4.66	2.39	2.34
30.12	30.94	32.04	31.60	31.72	31.50	33.41
-	-	-	-	-	-	-
30.01	30.79	31.91	31.42	31.48	31.38	33.30
0.11	0.15	0.14	0.18	0.24	0.12	0.11
26.94	24.04	22.12	21.91	22.75	24.87	23.67
9.98	10.30	10.39	9.87	10.59	9.82	9.46
11.34	8.74	6.90	6.76	5.21	5.84	5.53
5.62	5.01	4.83	5.28	6.94	9.22	8.67
0.00	0.00	0.00	0.00	0.00	0.00	-
0.00	0.00	0.00	0.00	0.00	0.00	-
84.39	81.88	82.93	82.23	83.32	84.36	83.21
10.13	10.47	10.57	10.05	10.91	10.08	9.68
54.89	52.38	53.52	53.02	50.86	52.07	53.05
19.37	19.03	18.84	19.16	21.54	22.20	20.47