

# Wyeth Environmental, Health, and Safety Performance Metrics

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	Change from 2000 Baseline
<b>Safety</b>															
Lost Time Incident Rate (per 100 employees)	5.4	4.4	3.8	1.6	1.4	1.0	1.1	0.9	1.1	1.2	1.3	1.1	0.9	0.5	-56%
Total Incident Rate (per 100 employees)	9.9	8.6	7.1	3.3	2.7	2.1	2.2	1.6	2.1	2.0	2.3	1.8	1.4	1.1	-45%

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	Change from 2000 Baseline
<b>SARA 313</b>												
Chemicals Used (million kg)	75.67	121.1	99.2	102.7	102.05	92.60	3.93	3.23	2.07	1.44	1.53	-61%
Chemicals Used (million kg/billion \$)	12.81	15.61	11.93	12.41	12.86	11.70	0.296	0.228	0.142	0.091	0.088	-70%
Releases (million kg)	0.50	0.80	0.60	0.50	0.41	0.29	0.037	0.031	0.010	0.013	0.011	-69%
Releases (million kg/billion \$)	0.09	0.104	0.076	0.065	0.05	0.04	0.0028	0.0022	0.0007	0.0008	0.0007	-76%
Transfers (million kg)	1.81	2.08	1.65	1.41	1.84	1.28	1.44	1.34	1.12	1.16	1.06	-27%
Transfers (million kg/billion \$)	0.31	0.27	0.20	0.17	0.23	0.16	0.109	0.095	0.077	0.073	0.061	-44%

	1997	1998	1999	2000	2001	2002	2003	2004	Change from 2000 Baseline
<b>Energy Use</b>									
Total Energy Use (million gigajoules)	16.3	14.3	13.5	13.7	13.6	13.9	14.7	15.1	10%
- indirect use	-	-	-	4.0	3.8	4.0	4.6	4.6	14%
- direct use	-	-	-	9.6	9.8	9.9	10.0	10.5	8%
Total Energy Use (million joules/thousand \$)	1,150	1,064	998	1032	962	956	926	868	-16%
<b>CO<sub>2</sub> Emissions from Energy Use</b>									
CO <sub>2</sub> Emissions (million kg)	1,147	1,313	1,284	1,127	1,110	1,158	1,202	1,209	7%
- indirect use	-	-	-	601	569	616	647	635	6%
- direct use	-	-	-	526	541	542	555	574	9%
CO <sub>2</sub> Emissions (million kg/billion \$)	102	98	95	85	79	79	76	70	-18%

	1998	1999	2000	2001	2002	2003	2004	Change from 2000 Baseline
<b>Water Use</b>								
Global Water Use (million L)	15,363	15,468	12,974	13,048	12,833	13,512	14,055	8%
Global Water Use (million L/billion \$)	1,384	1,322	978	924	880	852	810	-17%
<b>Solid Waste</b>								
Solid Waste Generation (million kg)	84	91.5	90.7	102.0	98.6	69.0	51.5	-43%
Solid Waste Generation (million kg/billion \$)	6.2	6.8	6.8	7.2	6.8	4.4	3.0	-57%
Solid Waste Disposed (million kg)	34.7	29.5	36.5	30.7	31.6	31.6	31.1	-15%
Solid Waste Disposed (million kg/billion \$)	2.6	2.2	2.8	2.2	2.2	2.0	1.8	-35%
Solid Waste Reused/Recycled (million kg)	49.3	62.0	54.2	71.3	67.0	37.5	20.5	-62%
Solid Waste Reused/Recycled (million kg/billion \$)	3.7	4.6	4.1	5.0	4.6	2.4	1.2	-71%
<b>Hazardous Waste</b>								
Hazardous Waste Generation (million kg)	219.2	193.7	29.8	33.6	31.5	21.1	12.8	-57%
Hazardous Waste Generation (million kg/billion \$)	16.3	14.3	2.2	2.4	2.2	1.3	0.7	-67%
Hazardous Waste Disposed (million kg)	198.6	176.7	14.0	16.1	13.5	10.0	9.3	-33%
Hazardous Waste Disposed (million kg/billion \$)	14.8	13.0	1.1	1.1	0.9	0.6	0.5	-49%
Hazardous Waste Reused/Recycled (million kg)	20.6	17.0	15.8	17.4	17.9	11.1	3.4	-78%
Hazardous Waste Reused/Recycled (million kg/billion \$)	1.5	1.3	1.2	1.2	1.2	0.7	0.2	-83%

	2000	2001	2002	2003	2004	Change from 2000 Baseline
<b>Ozone Depleting Substances</b>						
Class I ODS Emissions (kg)	2,078	1,698	2,177	2,220	2,158	4%
Class II ODS Emissions (kg)	7,857	17,070	11,224	7,814	8,950	14%
Total (kg)	9,935	18,768	13,401	10,034	11,108	12%
Total (kg/billion \$)	749	1,328	919	633	640	-15%
<b>Air Emissions<sup>3</sup></b>						
Dust/Particulate (1,000 kg)	125.0	109.8	99.4	90.7	67.5	-46%
Dust/Particulate (1,000 kg/billion \$)	9.4	7.8	6.8	5.7	3.9	-59%
VOC (1,000 kg)	166.3	191.9	199.9	194.4	102.8	-38%
VOC (1,000 kg/billion \$)	12.5	13.6	13.7	12.3	5.9	-53%
SO <sub>x</sub> (1,000 kg)	485.6	512.0	750.6	897.6	136.8	-72%
SO <sub>x</sub> (1,000 kg/billion \$)	36.6	36.2	51.5	56.6	7.9	-78%
NO <sub>x</sub> (1,000 kg)	541.3	595.0	789.8	864.8	626.2	16%
NO <sub>x</sub> (1,000 kg/billion \$)	40.8	42.1	54.2	54.6	36.1	-12%
CO (1,000 kg)	171.8	216.5	256.5	233.1	231.4	35%

	2000	2001	2002	2003	2004	Change from 2000 Baseline
CO (1,000 kg/billion \$)	13.0	15.3	17.6	14.7	13.3	3%
Lead (kg)	0	0	0	0	0	0%
Lead (kg/billion \$)	0	0	0	0	0	0%
Total (1,000 kg)	1.49	1.63	2.10	2.28	1.16	-22%
Total (1,000 kg/billion \$)	0.11	0.12	0.14	0.14	0.07	-40%

**Wastewater Discharges<sup>3</sup>**

Wastewater Direct Discharge (million L)	1,826	2,239	2,059	1579	1,202	-34%
Wastewater Direct Discharge (million L/billion \$)	138	158	141	100	69	-50%
BOD Direct (kg)	27,585	57,137	37,382	20,634	32,394	17%
BOD Direct (kg/billion \$)	2,080	4,044	2,563	1,302	1,866	-10%
COD Direct (kg)	101,875	104,994	73,399	57,414	82,491	-19%
COD Direct (kg/billion \$)	7,681	7,431	5,033	3,622	4,752	-38%
Ammonia Nitrogen as Nitrogen Direct(kg)	5,383	6,261	8,529	3,282	2,705	-50%
Ammonia Nitrogen as Nitrogen Direct(kg/billion \$)	406	443	585	207	155	-62%
Total Phosphorus Direct (kg)	1,778	2,256	2,091	1,178	954	-46%

	2000	2001	2002	2003	2004	Change from 2000 Baseline
Total Phosphorus Direct (kg/billion \$)	134	160	143	74	55	-59%
Total Suspended Solids Direct (kg)	35,879	123,272	65,264	140,048	41,978	17%
Total Suspended Solids Direct (kg/billion \$)	2,705	8,725	4,475	8,835	2,418	-11%
Metals Direct (kg)	29	91	54	44	60	107%
Metals Direct (kg/billion \$)	2.2	6.4	3.7	2.8	3.4	58%
Wastewater Indirect Discharge (million L)	6,873	6,274	5,691	6,258	6,829	-1%
Wastewater Indirect Discharge (million L/billion \$)	518	444	390	395	393	-24%
BOD Indirect(kg)	1,143,867	897,531	758,497	825,954	407,631	-64%
BOD Indirect (kg/billion \$)	86,247	63,526	52,009	52,109	23,483	-73%
COD Indirect (kg)	1,480,838	959,873	702,945	742,108	668,982	-55%
COD Indirect (kg/billion \$)	111,654	67,939	48,200	46,819	38,540	-65%
Ammonia Nitrogen as Nitrogen Indirect (kg)	52,696	39,545	37,157	39,043	22,272	-58%
Ammonia Nitrogen as Nitrogen Indirect (kg/billion \$)	3,973	2,799	2,548	2,463	1,283	-68%
Total Phosphorus Indirect (kg)	12,943	19,311	14,487	10963	8,335	-36%
Total Phosphorus Indirect (kg/billion \$)	976	1,367	993	692	480	-51%
Total Suspended Solids Indirect (kg)	469,033	427,429	367,221	403,368	272,145	-42%

	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>Change from 2000 Baseline</b>
Total Suspended Solids Indirect (kg/billion \$)	35,365	30,253	25,180	25,448	15,678	-56%
Metals Indirect (kg)	1,141	818	1,937	880	786	-31%
Metals Indirect (kg/billion \$)	86.0	57.9	132.8	55.5	45	-47%
Total Wastewater Discharge (million L)	8,699	8,513	7,750	7,838	8,030	-8%
Total Wastewater Discharge (million L/\$Billion)	656	603	531	494	463	-29%

*Notes*

1. The above chart includes data from the first year that Wyeth collected reliable data globally in each category (except SARA 313 data, which is U.S. only).
2. Dashes indicate years in which no data were gathered.
3. Air emissions and wastewater discharges include only those data that were required to be monitored under permits.
4. Billion \$ refers to billion dollars in sales.

*Baseline Year    Category*

1991	Worldwide Safety
1997	Worldwide Energy Use, CO <sub>2</sub> Emissions
1998	Worldwide Water Use, Solid Waste, Hazardous Waste
2000	Worldwide Ozone Depleting Substances, Air Emissions, Wastewater Discharges

*Basis for Conversion of Metrics*

We used the following factors for converting from non-metric to metric units:

1 British thermal unit	=	1,054 joules
1 gallon	=	3.78 liters (L)
1 pound	=	0.454 kilograms (kg)
2,200 pounds	=	1,000 kilograms or 1 metric ton