

Section 2 – The GPRA Analysis (1991-2001)

What Progress is being made toward the 2005 GPRA Goal?

Exhibit 14 shows the quantities of the 17 NPEP Priority Chemicals that have been reported to the TRI since 1991 for each year from 1991 to 2001. These 17 NPEP Priority Chemicals are listed below and are the chemicals that EPA tracks for the purpose of measuring progress toward the GPRA goal. This chapter discusses the progress made toward the GPRA goal of a 50 percent-reduction of the NPEP Priority Chemicals in hazardous waste by the year 2005, compared to the quantities generated in 1991.

- Anthracene
- Mercury and Mercury Compounds
- Cadmium and Cadmium Compounds
- Methoxychlor
- Dibenzofuran
- Naphthalene
- Heptachlor
- Pentachlorophenol
- Hexachloro-1, 3-butadiene
- Quintozene
- Hexachlorobenzene
- 1,2,4-Trichlorobenzene
- Hexachloroethane
- 2,4,5-Trichlorophenol
- Lead and Lead Compounds
- Trifluralin
- Lindane

Exhibit 14. National GPRA Quantity (pounds) of NPEP Priority Chemicals

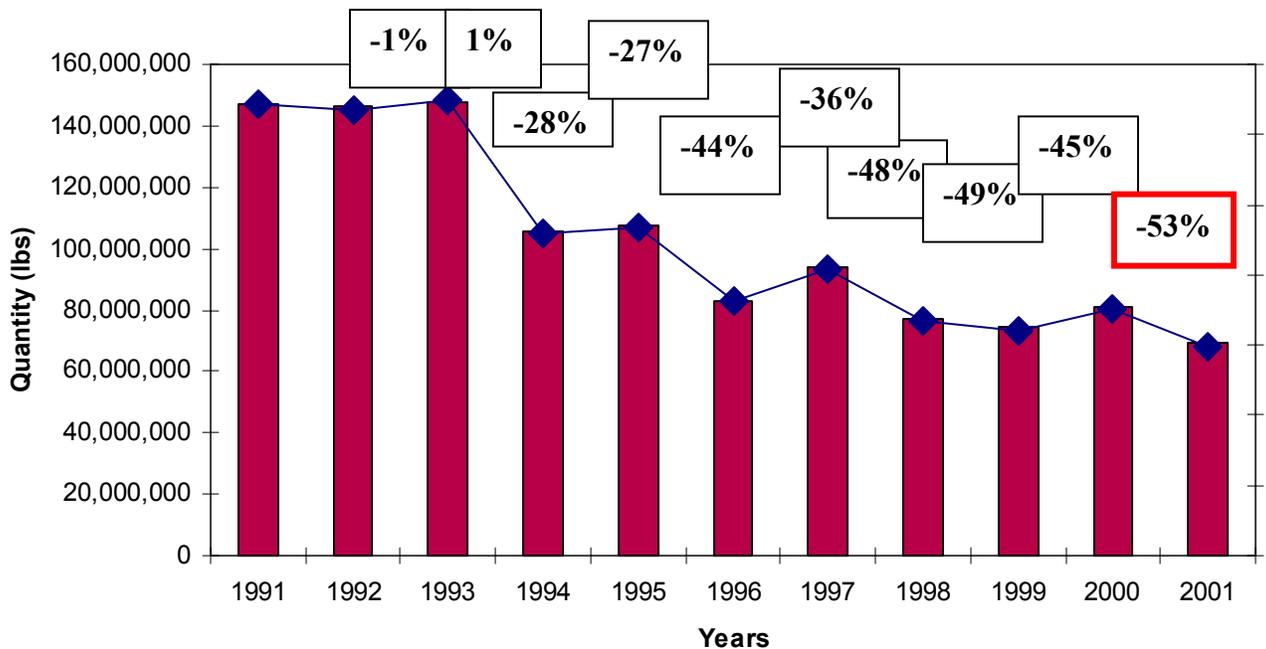
CHEMICAL NAME	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	% of GPRA Qty in 2001
Lead and Lead Compounds	78,385,105	74,328,781	80,250,019	65,857,698	66,642,214	44,151,744	53,963,143	45,783,874	38,406,926	41,359,328	36,742,444	53.2
Naphthalene	26,872,979	36,604,036	29,489,132	14,052,871	15,946,399	19,418,423	12,970,428	14,437,458	13,813,983	14,320,007	9,918,049	14.4
Hexachloro-1,3-butadiene	11,490,810	7,776,137	5,514,269	4,676,020	7,077,108	6,453,638	8,411,397	4,471,095	8,768,775	9,036,216	6,482,741	9.4
Hexachloroethane	5,274,360	2,695,169	3,144,528	11,816,766	6,304,499	5,733,673	4,253,357	4,892,537	3,629,017	4,894,157	4,153,811	6.0
Hexachlorobenzene	5,196,864	3,795,442	4,873,040	3,157,120	3,305,327	2,441,298	1,852,298	1,764,080	5,405,847	5,927,107	5,008,984	7.3
Cadmium and Cadmium Compounds	2,583,408	2,070,058	4,711,076	3,165,818	2,844,824	2,313,941	8,986,943	3,504,288	1,913,008	2,861,342	3,636,610	5.3
Anthracene	10,821,191	11,628,086	8,058,449	551,601	2,073,010	466,157	449,257	389,836	473,257	558,159	370,586	0.5
1,2,4-trichlorobenzene	1,137,181	2,001,334	5,960,179	1,255,983	1,576,310	928,246	767,818	854,013	1,377,130	1,166,039	2,126,359	3.1
Dibenzofuran	5,104,604	5,073,535	5,059,712	90,841	425,242	61,493	109,433	154,766	150,835	118,158	91,620	0.1
Quintozene	62,715	3,507	522,861	543,831	759,919	620,725	334,769	355,970	222,901	311,193	216,293	0.3
Trifluralin	82,759	82,363	36,321	124,842	207,157	200,534	1,539,671	103,803	91,103	84,754	81,653	0.1
Pentachlorophenol	111,508	250,529	193,335	169,425	135,567	305,526	150,708	160,170	218,317	73,610	62,748	0.1
Mercury and Mercury Compounds	186,718	265,661	84,555	53,170	48,029	47,654	47,426	31,670	47,224	116,039	105,769	0.2
Heptachlor	4	108,000	79,519	8,300	4,701	18,311	0	0	0	0	0	0.0
2,4,5-trichlorophenol	28,000	0	0	0	0	0	0	23,226	26,098	32,443	20,657	<0.1
Lindane	1,862	1,580	159	685	3,226	1,197	2,800	8,272	2,728	64	49	<0.1
Methoxychlor	158	252	1	6	0	807	0	0	0	19	0	0.0
	147,340,226	146,684,470	147,977,155	105,524,977	107,353,532	83,163,367	93,839,448	76,935,058	74,547,149	80,858,634	69,018,373	

National NPEP Priority Chemical quantities analyzed in this report declined by 53 percent between 1991 and 2001, as shown in Exhibits 15 and 16. An overall gradual decline in the quantities of NPEP Priority Chemicals is evident for much of this time period. However, in 1997, GPRA quantity of NPEP Priority Chemicals increased by 13 percent from the previous year, 1996. Again, in 2000 the total increased 8 percent from 1999. However, the overall trend has been a steady reduction of the 1991 NPEP Priority Chemical quantity over time, and as of 2001, the 2005 goal of a 50 percent reduction has been more than met.

Exhibit 15. GPRA Quantity (lbs) and Percent (%) Change of NPEP Priority Chemicals (1991-2001)

Reporting Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Total 1991 GPRA Quantity (pounds)	147,340,226	146,684,470	147,977,155	105,524,977	107,353,532	83,163,367	93,839,448	76,935,058	74,547,149	80,858,634	69,018,373
Percent Change in 1991 GPRA Qty from 1991		-1%	1%	-28%	-27%	-44%	-36%	-48%	-49%	-45%	-53%

Exhibit 16. GPRA Quantity (lbs) by Year and the Percentage Changes in the NPEP Priority Chemicals (1991-2001)



Three NPEP Priority Chemicals, lead and lead compounds, naphthalene, and hexachloro-1,3-butadiene, make up approximately 77 percent of the 2001 NPEP Priority Chemical total. However, all of these chemicals have decreased significantly since 1991. All 17 GPRA quantities of NPEP Priority Chemicals decreased from 2000 to 2001, with the exception of cadmium and cadmium compounds (increased from 2,861,342 to 3,636,610) and 1,2,4-trichlorobenzene (increased from 1,166,039 to 2,126,359). The NPEP Priority Chemicals with the most significant decreases are listed in Exhibit 17.

Exhibit 17. NPEP Priority Chemicals with the Most Significant Decreases (1991-2001)

Percent Decrease (1991-2001)	NPEP PRIORITY CHEMICAL
-100.0	Methoxychlor
-36.3	2,4,5-Trichlorophenol
-33.6	Anthracene
-30.7	Naphthalene
-30.5	Quintozene
-28.3	Hexachloro-1,3-Butadiene
-23.4	Lindane
-22.5	Dibenzofuran

A more detailed discussion of the trends for all of the NPEP Priority Chemicals, from 1998 through 2001, is found in Section 3.