

# Toxic Release Inventory, Combined On-Site Releases and Transfers 1999 and 2004

	City 1999	City 2004	Percent Change	County 1999	County 2004	City as Percent of County 1999	City as Percent of County 2004	City as Percent of State 1999	City as Percent of State 2004
Ann Arbor	38,000	31,000	-19.4	1,832,000	797,000	2.1	3.8	0.0	0.0
Battle Creek	537,000	494,000	-8.0	7,044,000	12,552,000	7.6	3.9	0.1	0.2
Detroit	65,453,000	52,320,000	-20.1	156,722,000	101,549,000	41.8	51.5	15.4	16.5
Flint	2,324,000	1,082,000	-53.4	4,522,000	2,117,000	51.4	51.1	0.5	0.3
Grand Rapids	7,255,000	2,216,000	-69.5	12,684,000	3,242,000	57.2	68.4	1.7	0.7
Kalamazoo	32,321,000	43,260,000	33.8	33,154,000	43,306,000	97.5	99.9	7.6	13.6
Lansing	4,047,000	5,282,000	30.5	4,316,000	6,789,000	93.8	77.8	1.0	1.7
Muskegon	12,237,000	5,587,000	-54.3	13,426,000	6,352,000	91.1	88.0	2.9	1.8
Pontiac	4,422,000	2,700,000	-38.9	26,183,000	12,289,000	16.9	22.0	1.0	0.9
Saginaw	1,987,000	2,584,000	30.0	2,848,000	2,738,000	69.8	94.4	0.5	0.8
Traverse City	5,482,000	5,785,000	5.5	5,482,000	5,785,000	100.0	100.0	1.3	1.8
Warren	2,060,000	2,162,000	4.9	10,962,000	11,013,000	18.8	19.6	0.5	0.7
Wyoming	137,000	73,000	-46.7	12,684,000	3,242,000	1.1	2.3	0.0	0.0
Total	138,300,000	123,576,000	-10.6	291,859,000	211,771,000	47.4	58.4	32.5	39.0
State	425,242,000	316,937,000	-25.5						

Source: US EPA: Toxic Release Inventory (TRI) Program

Note: The TRI is a database that contains detailed information on nearly 650 chemicals and chemical categories that industrial and other facilities manage through disposal or other releases, recycling, energy recovery, or treatment. The data are collected from industries including manufacturing, metal and coal mining, electric utilities, commercial hazardous waste treatment, and other industrial sectors.

While transfers of toxic chemicals declined by over 10 percent in cities, cities lagged the State decline of 25 percent, and the overall county decline of more than 27 percent.

Grand Rapids had the largest overall decline, almost 70 percent.

Saginaw, Lansing and Kalamazoo increased by more than 30 percent.



MICHIGAN HIGHER EDUCATION LAND POLICY CONSORTIUM