## **TABLE OF CONTENTS**

CHAPIER 1	AND THE 1997 PUBLIC DATA RELEASE 1 - 1
Introduction and Back	kground 1 - 1
1997 Public Data Rele	ease
TRI Reporting	
Who Must Re	port? 1 - 3
What Must Be	e Reported?
What Are the	Benefits and Limitations of the Data
Benefi	ts 1 - 4
Limita	tions
TRI In Perspective	
TRI Expansion	n
Chemi	cal Expansion
Facility	y Expansion
Persist	ent, Bioaccumulative Toxic Chemicals
TRI Reporting	g Forms
Form I	R 1 - 9
Form A	A 1 - 9
Future TRI Me	odifications
Polluti	on Prevention Act Reporting
Redesi	gn of TRI Reporting Forms and TRI Stakeholder Dialogue
Airpor	ts Petition and Rulemaking Update
International A	Aspects of TRI



How Can I	Obtain Additional TRI Information
	CHAPTER 1 - EXHIBITS
Box 1-1.	Who Reported Toxic Chemical Release Inventory Reports for the 1997 Reporting Year? 1 - 3
Box 1-2.	Who Will Report to TRI Starting in the 1998 Reporting Year?
Box 1-3.	What Must Be Reported
Box 1-4.	Factors to Consider in Using TRI Data
CHAPTE	R 2 NATIONAL OVERVIEW OF 1997 TOXICS RELEASE INVENTORY
Introductio	n 2 - 1
TRI Releas	es and Waste Management
TRI	Chemicals Managed in Waste
	Waste Management Information Collected
Wh	at to Consider When Using TRI Data
	Toxicity of the Chemical
	Exposure Considerations
1997 Natio	nal Overview
On-	and Off-site Releases
	On-site Releases
	Off-site Releases
Oth	er On-site Waste Management
Tra	nsfers Off-site for Further Waste Management
TRI	Chemicals Managed in Waste



	Differences between Amounts Reported in Sections 5 and 6 and in Section 8 of Form R
1997 TRI Da	ta by State
On- an	nd Off-site Releases by State
	On-site Releases
	Off-site Releases
Transi	fers Within and Among State
	Off-site Releases
	Transfers Off-site for Further Waste Management
Mana	gement of TRI Chemicals in Waste by State
1997 TRI Dat	ta by Chemical
Top 2	20 Chemicals for On- and Off-site Releases
	Use, Toxicity, and Environmental Fate Information
Top 2	20 Chemicals for Quantities Managed in Waste
Metal	s and Metal Compounds
	On- and Off-site Releases of Metals and Metal Compounds
	Quantities of Metals and Metal Compounds Managed in Waste
OSHA	A Carcinogens
	Clarification of the Basis for Carcinogen Listings on the EPCRA Section 313 List of Toxic Chemicals
	On- and Off-site Releases of OSHA Carcinogens
	Quantities of OSHA Carcinogens Managed in Waste
Chem	icals Affecting Children's Health
	Nitrate Compounds and Children's Health



	Mercury and Children's Health
	Ozone and Children's Health
Prevention	of TRI Chemicals in Waste
Sou	rce Reduction
Faci	lity Projections of TRI Chemicals in Waste
	National Overview
	Projected Waste Management Data by State
Chemical-s <sub>l</sub>	pecific Release and Waste Management Data
	CHAPTER 2 - EXHIBITS
Table 2-1.	1997 TRI Facilities and Forms
Table 2-2.	1997 TRI On- site and Off-site Releases, Other On-site Waste  Management, and Transfers Off-site for Further Waste Management
Table 2-3.	1997 TRI Waste Management
Table 2-4.	TRI On-site and Off-site Releases, by State, 1997
Table 2-5.	TRI Off-site Releases (Transfers Off-site to Disposal), 1997
Table 2-6.	TRI Releases in the State and Transferred out of State, 1997
Table 2-7.	TRI Transfers Off-site for Further Waste Management Among and Within States, 1997
Table 2-8.	Quantities of TRI Chemicals in Waste, by State, 1997
Table 2-9.	Top 20 Chemicals with Largest Total On-site and Off-site Releases, 1997
Table 2-10.	Top 20 TRI Chemicals with Largest Quantities in Waste, 1997
Table 2-11.	TRI On-site and Off-site Releases of Metals and Metal Compounds 1997 2 - 35
Table 2-12.	TRI Off-site Releases of Metals and Metal Compound, 1997



Table 2-13.	Quantities of TRI Metals and Metal Compounds in Waste, 1997
Table 2-14.	TRI On-site and Off-site Releases of OSHA Carcinogens, 1997
Table 2-15.	Quantities of OSHA Carcinogens in Waste, 1997
Table 2-16.	TRI On-site and Off-site Releases for Some Developmental Toxins, Added to TRI for 1995 Reporting Year, Top 10 Chemicals for Total Releases, 1997
Table 2-17.	Facilities and Forms Reporting Source Reduction Activity, by Category, 1997
Table 2-18.	Current Year and Projected Quantities of TRI Chemicals in Waste, 1997-1999
Table 2-19.	Actual and Projected Quantities of TRI Chemicals in Waste, by State, 1996-1999
Table 2-20.	TRI On-site and Off-site Releases, by Chemical, 1997
Figure 2-1.	Information Collected Under TRI
Figure 2-2.	Waste Management Hierarchy
Figure 2-3.	1997 TRI On-site Releases
Figure 2-4.	1997 TRI Off-site Releases
Figure 2-5.	1997 TRI Other On-site Waste Management
Figure 2-6.	1997 TRI Transfers Off-site for Further Waste Management
Figure 2-7.	1997 TRI Waste Management
Box 2-1.	An Explanation of On-site Releases
Box 2-2.	An Explanation of Off-site Releases (Transfers Off-site to Disposal)
Box 2-3.	How Metals and Metal Compounds Should be Reported to TRI
Box 2-4.	Use of Data for Metals and Metal Compounds in This Report
Box 2-5.	An Explanation of On-site Waste Management



BOX 2-6.	An Explanation of Transfers Off-site for Furtner waste Management
Box 2-7.	An Explanation of Waste Management Information
Box 2-8.	Basis of OSHA Carcinogen Listing for Individual Chemicals
Box 2-9.	What is Source Reduction
Map 2-1.	Geographic Distribution of TRI On-site Releases
Map 2-2.	Geographic Distribution of Production-related Waste Managed
CHAPTER	3 YEAR-TO-YEAR- COMPARISON OF TOXICS RELEASE INVENTORY DATA 3 - 1
Introduction	3 - 1
"Core	"Chemicals for Year-to-Year Comparisons
	Three-year Comparisons
	Baseline Comparisons
	Reporting of Ammonia, Hydrochloric Acid, and Sulfuric Acid
	Threshold Changes
	Underground Injection and On-site Land Releases
	Waste Management
	New Types of Transfers
	Metals and Metal Compounds
Reaso	ns for Change
1995-1997 Na	ational Overview
On- ar	nd Off-site Releases, 1995-1997
	On-site Releases



	Off-site Releases
Othe	er On-site Waste Management, 1995-1997
Tran	sfers Off-site for Further Waste Management, 1995-1997
Faci	lities and Forms, 1995-1997
TRI	Chemicals Managed in Waste, 1995-1997
1988 and 19	95-1997 National Overview
On-	and Off-site Releases, 1988 and 1995-1997
	On-site Releases
	Off-site Releases
Othe	er On-site Waste Management, 1988 and 1995-1997
Tran	sfers Off-site for Further Waste Management, 1988 and 1995-1997
On- and Off	-site Releases by State
Rele	ases by State, 1995-1997
Rele	ases by State, 1988 and 1995-1997
TRI Chemic	rals Managed in Waste
TRI	Chemicals Managed in Waste, 1991 and 1995-1997
	ected Quantities of TRI Chemicals Managed in Waste, and 1995-1999
Chemical-sp	pecific Release and Waste Management
	CHAPTER 3 – EXHIBITS
Table 3-1.	Comparison of TRI On-site and Off-site and Transfers for Further Waste Management, 1995-1997
Table 3-2.	Quantities of TRI Chemicals in Waste, 1995-1997 3 - 12



Table 3-3.	Comparison of TRI On-site and Off-site Releases, Other On-site Waste Management, and Transfers Off-site for Further Waste Management, 1988 and 1994-1996
Table 3-4.	Change in Total TRI On-site and Off-site Releases, by State, 1995-1997 3 - 18
Table 3-5.	Change in Total TRI On-site and Off-site Releases, by State, 1988 and 1995-1997
Table 3-6.	Quantities of TRI Chemicals in Waste, 1991 and 1995-1997
Table 3-7.	Quantities of TRI Chemicals in Waste, 1991 and 1996-1999
Table 3-8A.	TRI On-site and Off-site Releases, by Chemical, 1988 and 1995-1997
Table 3-8B.	Quantities of TRI Chemicals in Waste, by Chemical, 1988 and 1995-1997
Figure 3-1.	Distributing of TRI On-site and Off-site Releases, 1988-1997
Box 3-1.	An Explanation of the Modification to the Reporting Requirements for Aqueous Ammonia and the Delisting of Ammonium Sulfate (Solution) and Ammonium Nitrate (Solution) 3 - 3
Box 3-2.	An Explanation of the Modification to the Reporting Requirements for Hydrochloric and Sulfuric Acid
Box 3-3.	Reasons Facility Estimates of Releases and Other Waste Management Change 3 - 7
CHAPTER	4 INDUSTRY REPORTING TO THE TOXICS RELEASE INVENTORY
TRI Data by I	Industry, 1997
On- ar	nd Off-site Releases, 1997
	On-site Releases
	Off-site Releases
TRI C	hemicals Managed in Waste, 1997
Econo	omic Overview, by Industry, 1997
Year-by-Year	Comparisons, by Industry



	nd Off-site Releases, 1995-1997
TRI C	Chemicals Managed in Waste, 1991, 1995, 1997-1999
	Projected Quantities of TRI Chemicals Managed in Waste, 1997-1999
	Quantities of TRI Chemicals in Waste, 1995-1997
	Quantities of TRI Chemicals in Waste, 1991 and 1995-1997
Econo	omic Overview, by Industry, Multi-Year Comparisons
	CHAPTER 4 – EXHIBITS
Table 4-1.	TRI Facilities and Forms, by Industry
Table 4-2.	TRI On-site and Off-site Releases, by Industry, 1997
Table 4-3.	TRI Off-site Releases (Transfers Off-site to Disposal), 1997
Table 4-4.	Quantities of TRI Chemicals in Waste Managed, by Industry, 1997
Table 4-5.	Employees, Sales, and Total Production-related Waste, by Industry 1997 4 - 13
Table 4-6.	Changed in Total TRI On-site and Off-site Releases, by Industry, 1995-1997 4 - 15
Table 4-7.	Change in Total TRI On-site and Off-site Releases, by Industry, 1988 and 1995-1997 4 - 16
Table 4-8.	Actual and Projected Total Production-related Waste Managed by Industry, 1997-1999 4 - 17
Table 4-9.	Total Production-related Waste Managed, by Industry, 1995-1997
Table 4-10.	Total Production-related Waste Managed, by Industry, 1991 and 1995-1997 4 - 21
Table 4-11.	Industrial Production Indexes by Industry, 1991-1997
Table 4-12.	Cumulative Change in Manufacturing Production and in TRI Quantities in Waste Managed, 1991-1997
Figure 4-1.	TRI On-site and Off-site Releases, Industries with Largest Totals, 1997
Figure 4-2.	TRI On-site and Off-site Releases, Industries with Largest Totals, 1997 4 - 7



Figure 4-3.	Quantities of TRI Chemicals in Waste Managed, Industries with Largest Totals, 1997 4 - 11
Box 4-1.	Standard Industrial Classification (SIC) Codes
Box 4-2.	An Explanation of SIC Codes and TRI
	APPENDICES
APPENDIX A	EPA REGIONAL OFFICE AND STATE TRI CONTACTS A - 1
	E. PUBLIC ACCESS TO THE TOXICS RELEASE INVENTORY AND FED INFORMATION
	2. ADDITIONAL INFORMATION FOR ASSESSING THE IMPACTS I CHEMICALS
APPENDIX D	D. TRI DATA QUALITY PROGRAM D - 1
APPENDIX E	. TRI FORM R AND FORM A FOR 1997