

# CONTENTS

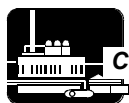
## CHAPTER 1 TOXICS RELEASE INVENTORY REPORTING AND THE 1996 PUBLIC DATA RELEASE .....

1

Introduction .....	1
TRI Background .....	2
1996 Public Data Release .....	2
Expanded Analysis of 1996 Industry Data .....	3
Revised Presentation of TRI Data .....	3
Additions to 1996 TRI Public Data Release .....	4
Availability of Screening Information Data Set (SIDS) Testing .....	4
Screening Information System/LAN (SIS/L) .....	4
<i>Act Locally</i> Catalogue .....	5
Diffuse Sources .....	5
TRI Reporting .....	5
Who Must Report? .....	6
What Must Be Reported? .....	6
What Are the Benefits and Limitations of the Data? .....	8
Benefits .....	8
Limitations .....	9
TRI In Perspective .....	10
TRI Expansion .....	10
Phase 1: Chemical Expansion .....	11
Phase 2: Facility Expansion .....	11
Phase 3: Chemical Use Reporting .....	12
TRI Reporting Forms .....	13
Form A .....	13
Revisions to Form R .....	13
Future TRI Modifications .....	13
Pollution Prevention Act Reporting .....	13
Redesign of TRI Reporting Forms and TRI Stakeholder Dialogue .....	14
Persistent Bioaccumulators .....	15
Airports Petition .....	15
Oil and Gas Expansion .....	16
International Aspects of TRI .....	16
How Can I Obtain Additional TRI Information? .....	17

## CHAPTER 1 EXHIBITS

Box 1-1.	A Roadmap to the 1996 TRI Public Data Release .....	1
Box 1-2.	Who Reported Toxic Chemical Release Inventory Reports for the 1996 Reporting Year? .....	6
Box 1-3.	Who Will Report to TRI Starting in the 1998 Reporting Year? .....	7
Box 1-4.	What Must Be Reported to TRI? .....	7



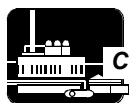
Box 1-5.	Factors to Consider in Using TRI Data .....	9
Box 1-6.	Some Toxic Persistent Bioaccumulators Listed on the Toxics Release Inventory .....	15

## **CHAPTER 2     NATIONAL OVERVIEW OF 1996 TOXICS RELEASE INVENTORY ..... 19**

Introduction .....	19
TRI Releases and Waste Management .....	19
What to Consider When Using TRI Data .....	19
Toxicity of the Chemical .....	19
Exposure Considerations .....	23
1996 National Overview .....	24
On- and Off-site Releases .....	25
Other On-site Waste Management .....	25
Transfers Off-site for Further Waste Management .....	26
1996 TRI Data by State .....	27
On- and Off-site Releases .....	27
Other On-site Waste Management .....	32
Transfers Off-site for Further Waste Management .....	32
1996 TRI Data by Chemical .....	32
Top 20 Chemicals for On- and Off-site Releases .....	33
Use, Toxicity, and Environmental Fate Information .....	33
Metals and Metal Compounds .....	36
OSHA Carcinogens .....	39
Clarification of the Basis for Carcinogen Listings on the EPCRA	
Section 313 List of Toxic Chemicals .....	40
Chemicals Affecting Children's Health .....	47
Nitrate Compounds and Children's Health .....	47
Mercury and Children's Health .....	49
Ozone and Children's Health .....	49
Diffuse Sources .....	49
Fertilizer Use .....	50
Pesticide Use .....	51
Volatile Organic Compounds .....	52
1996 Data for All TRI Chemicals .....	52
Prevention and Management of TRI Chemicals in Waste .....	52
Waste Management Information Collected .....	54
Source Reduction Activities .....	54
Quantities of TRI Chemicals in Waste .....	56
National Overview .....	56
Waste Management Data by State .....	58
Chemical-Specific Waste Management Data .....	64
Chemical-Specific Data Table Information .....	65

## CHAPTER 2 EXHIBITS

Table 2-1.	1996 TRI Facilities and Forms .....	24
Table 2-2.	1996 TRI On-site and Off-site Releases .....	25
Table 2-3.	1996 Other On-site Waste Management .....	26
Table 2-4.	1996 TRI Transfers Off-site for Further Waste Management .....	26
Table 2-5.	TRI On-site and Off-site Releases by State, 1996 .....	28
Table 2-6.	Off-site Transfers for Disposal Sent Out of State, Within States and Received into State, 1996 .....	29
Table 2-7.	TRI Other On-site Waste Management by State, 1996 .....	30
Table 2-8.	TRI Transfers Off-site for Further Waste Management by State, 1996 .....	31
Table 2-9.	Top 20 Chemicals with Largest Total On-site and Off-site Releases, 1996 ....	34
Table 2-10.	TRI On-site and Off-site Releases of Metals and Metal Compounds, 1996 ...	37
Table 2-11.	TRI Other On-site Waste Management and Transfers Off-site for Further Waste Management of Metals and Metal Compounds, 1996 .....	39
Table 2-12.	TRI On-site and Off-site Releases of OSHA Carcinogens, 1996 .....	43
Table 2-13.	TRI On-site and Off-site Releases for Developmental Toxins Added to TRI for 1995 Reporting Year, Top 10 Chemicals for Total Releases, 1996 .....	48
Table 2-14.	Pesticide Use in Agricultural Crop Production, 1995, and TRI Releases and Transfers of Selected Pesticides, 1996 .....	51
Table 2-15.	TRI Air Emissions for Top 20 Volatile Organic Chemicals with Largest Total Air Emissions, 1996 .....	53
Table 2-16.	Facilities and Forms Reporting Source Reduction Activity, by Category, 1996 .....	57
Table 2-17.	Current Year, and Projected Quantities of TRI Chemicals in Waste, 1996-1998 .....	57
Table 2-18.	Quantities of TRI Chemicals in Waste , by State, 1996 .....	59
Table 2-19.	Actual and Projected Quantities of TRI Chemicals in Waste, by State, 1995-1998 .....	60
Table 2-20.	Top 20 Chemicals with the Largest Total Production-related Waste, 1996 .....	65
Table 2-21A.	TRI On-site and Off-site Releases, by Chemical, 1996 .....	66
Table 2-21B.	TRI Other On-site Waste Management and Transfers Off-site for Further Waste Management, by Chemical, 1996 .....	67
Figure 2-1	Information Collected under TRI .....	20
Figure 2-2.	Distribution of TRI On-site and Off-site Releases, 1996 .....	25
Figure 2-3.	Distribution of TRI Other On-site Waste Management, 1996 .....	26
Figure 2-4.	Distribution of TRI Transfers Off-site for Further Waste Management, 1996 .....	26
Figure 2-5.	Waste Management Hierarchy .....	54
Box 2-1.	An Explanation of On- and Off-site Releases .....	21
Box 2-2.	An Explanation of On-site Waste Management .....	22



Box 2-3.	An Explanation of Transfers Off-site for Further Waste Management .....	22
Box 2-4.	Basis of OSHA Carcinogen Listing for Individual Chemicals .....	41
Box 2-5.	An Explanation of Waste Management Information .....	55
Box 2-6.	What is Source Reduction? .....	56

## **CHAPTER 3    YEAR-TO-YEAR COMPARISON OF TOXICS RELEASE INVENTORY DATA..... 87**

Introduction .....	87
“Core” Chemicals for Year-to-Year Comparisons .....	88
1995-1996 Comparisons .....	88
Multi-Year Comparisons .....	88
Reporting of Ammonia, Hydrochloric Acid, and Sulfuric Acid .....	88
Threshold Changes .....	90
Underground Injection and On-site Land Releases .....	91
On- and Off-site Waste Management .....	91
New Types of Off-site Transfers .....	91
Reasons for Change .....	91
TRI Data for 1995-1996 and for 1988, 1994-1996 .....	91
National Overview .....	91
On- and Off-site Releases .....	91
Other On-site Waste Management .....	94
Transfers Off-site for Further Waste Management .....	94
Facilities and Forms .....	94
TRI Data by State for 1995-1996 and for 1988, 1994-1996 .....	96
On- and Off-site Releases .....	96
TRI Data by Chemical for 1995-1996 and for 1988, 1994-1996 .....	98
33/50 Program Chemicals, 1988-1996 .....	100
Waste Management Data, 1991-1995 .....	100
Chemical-Specific Data .....	103

## **CHAPTER 3    EXHIBITS**

Table 3-1.	Comparison of TRI On-site and Off-site Releases, Other On-site Waste Management, and Transfers Off-site for Further Waste Management, 1995-1996 .....	93
Table 3-2.	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 .....	95
Table 3-3.	Change in Total TRI On-site and Off-site Releases, by State, 1995-1996 .....	97
Table 3-4.	Change in Total TRI On-site and Off-site Releases, by State, 1998 and 1994-1996 .....	99
Table 3-5.	Change in Total On- and Off-site Releases and Transfers Off-site to Treatment and Disposal of 33/50 Chemicals, 1988-1996 .....	101

Table 3-6.	Total On-site Releases and Transfers Off-site to Treatment and Disposal of 33/50 Program Chemicals Compared to Other TRI Chemicals, 1988, 1990, 1995, and 1996 .....	101
Table 3-7.	Quantities of TRI Chemicals in Waste, 1991 and 1994-1996. ....	102
Table 3-8.	Actual and Projected Quantities of TRI Chemicals in Waste, 1991 and 1995-1998 .....	103
Table 3-9.	TRI On-site and Off-site Releases, by Chemical, 1988 and 1994-1996 .....	104
Table 3-9.	TRI Other On-site Waste Management, Transfers Off-site for Further Waste Management, and Total Production-related Waste, 1988 and 1994-1996 .....	105
Figure 3-1.	Distribution of TRI On-site and Off-site Releases, 1988-1996 .....	96
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) .....	89
Box 3-2.	An Explanation of the Modification to the Reporting Requirements for Hydrochloric and Sulfuric Acid .....	90
Box 3-3.	Reasons Facility Release and Other Waste Management Estimates Change .....	92
<b>CHAPTER 4</b>	<b>INDUSTRY REPORTING TO THE TOXICS RELEASE INVENTORY: OVERVIEW .....</b>	<b>155</b>
TRI Data by Industry, 1996 .....		155
On- and Off-site Releases .....		155
Other On-site Waste Management .....		160
Transfers Off-site for Further Waste Management .....		161
Economic Overview, by Industry, 1996 .....		162
Year-by-Year Comparisons, by Industry .....		164
On- and Off-site Releases, 1995-1996 .....		164
On- and Off-site Releases, 1988 and 1994-1996 .....		166
Actual and Projected Quantities of TRI Chemicals in Waste, 1995-1998 .....		166
Waste Management Data, 1991 and 1995-1996 .....		168
Economic Overview, by Industry, Multi-Year Comparisons .....		169
<b>CHAPTER 4</b>	<b>EXHIBITS</b>	
Table 4-1.	TRI Facilities and Forms, by Industry, 1996 .....	159
Table 4-2.	TRI On-site and Off-site Releases, by Industry, 1996 .....	159
Table 4-3.	TRI Other On-site Waste Management, by Industry, 1996 .....	161
Table 4-4.	TRI Transfers Off-site for Further Waste Management, by Industry, 1996 .....	163

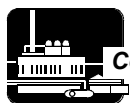


Table 4-5.	Employees, Value of Shipments, and Total Production-related Waste, by Industry, 1996 .....	165
Table 4-6.	Change in Total TRI On-site and Off-site Releases, by Industry, 1995-1996 .....	165
Table 4-7.	Change in Total On-site and Off-site Releases, by Industry, 1988 and 1994-1996 .....	167
Table 4-8.	Actual and Projected Total Production-related Waste, by Industry, 1996-1998 .....	167
Table 4-9.	Total Production-related Waste, by Industry, 1991 and 1994-1996 .....	168
Table 4-10.	Industrial Production Indexes by Industry, 1989-1996 .....	169
Table 4-11.	Cumulative Change in Manufacturing Production and in TRI Releases and Transfers Off-site to Treatment and Disposal, 1989-1996 .....	170
Figure 4-1.	TRI On-site and Off-site Releases, Industries with Largest Totals, 1996 .....	160
Figure 4-2.	TRI Other On-site Waste Management, Industries with Largest Totals, 1996 .....	162
Figure 4-3.	TRI Transfers Off-site for Further Waste Management, Industries with Largest Totals, 1996 .....	164
Box 4-1.	Standard Industrial Classification (SIC) Codes .....	156
Box 4-2.	An Explanation of SIC Codes and TRI .....	158

## **CHAPTER 5 TOXICS RELEASE INVENTORY DATA FOR PULP AND PAPER (SIC CODE 26) ..... 171**

A Look at the Paper and Allied Products Industry (SIC Code 26) .....	171
Pulp, Paper, and Paperboard .....	171
Products Made from Paper and Paperboard .....	173
Other Environmental Developments .....	174
1996 TRI Data for Pulp and Paper .....	175
On- and Off-site Releases .....	176
Other On-site Waste Management .....	177
Transfers Off-site for Further Waste Management .....	179
1996 TRI Data by State for Pulp and Paper .....	180
1996 TRI Data by Chemical for Pulp and Paper .....	181
OSHA Carcinogens .....	184
1996 TRI Chemicals in Waste for Pulp and Paper .....	186
Projected Quantities of TRI Chemicals in Waste .....	186
Source Reduction Activity .....	187
Year-to-Year Comparisons for Pulp and Paper .....	190
1995-1996 TRI Data for Pulp and Paper .....	190
On- and Off-site Releases .....	190
Other On-site Waste Management .....	190

Transfers Off-site for Further Waste Management .....	190
1988-1996 TRI Data for Pulp and Paper .....	190
Changes in SIC Codes .....	192
1988-1996 Data for Four-Digit Industries in Pulp and Paper .....	194
Facilities with Large Increases and Decreases in Releases, 1988-1996 .....	201
1991-1996 Waste Management Data for Pulp and Paper .....	202
Facilities with Large Increases and Decreases in Waste Management, 1991-1996 .....	202
Sources .....	206

## CHAPTER 5    EXHIBITS

Table 5-1.	Summary of TRI Information by 4-digit SIC Code, 1996: Pulp and Paper, SIC Code 26 .....	174
Table 5-2.	Multiple SIC Codes, 1996: Pulp and Paper, SIC Code 26 .....	176
Table 5-3.	TRI On-site and Off-site Releases, 1996: Pulp and Paper, SIC Code 26 (in Rank Order) .....	177
Table 5-4.	TRI Other On-site Waste Management, 1996: Pulp and Paper, SIC Code 26 (in Rank Order) .....	178
Table 5-5.	TRI Transfers Off-site for Further Waste Management, 1996: Pulp and Paper, SIC Code 26 (in Rank Order) .....	180
Table 5-6.	Summary of TRI Information by State, 1996: Pulp and Paper, SIC Code 26 .....	182
Table 5-7.	The 15 Chemicals with the Largest Total On-site and Off-site Releases, 1996: Pulp and Paper, SIC Code 26 (in Rank Order) .....	184
Table 5-8.	TRI On-site and Off-site Releases of OSHA Carcinogens by 4-digit SIC Code, 1996: Pulp and Paper, SIC Code 26 (in Rank Order) .....	185
Table 5-9.	Quantities of TRI Chemicals in Waste by 4-digit SIC Code, 1996: Pulp and Paper, SIC Code 26 (in Rank Order) .....	186
Table 5-10.	Current Year and Projected Quantities of TRI Chemicals in Waste, 1996-1998: Pulp and Paper, SIC Code 26 .....	188
Table 5-11.	Number of Forms Reporting Source Reduction Activity, 1996: Pulp and Paper, SIC Code 26 .....	189
Table 5-12.	Comparison of TRI On-site and Off-site Releases, Other On-site Waste Management, and Transfers Off-site for Further Waste Management, 1995-1996: Pulp and Paper, SIC Code 26 .....	191
Table 5-13.	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: Pulp and Paper, SIC Code 26 .....	193
Table 5-14.	TRI On-site and Off-site Releases by 4-digit SIC Code, 1988 and 1994-1996: Pulp and Paper, SIC Code 26 .....	195
Table 5-15.	TRI Other On-site Waste Management by 4-digit SIC Code, 1988 and 1994-1996: Pulp and Paper, SIC Code 26 .....	197

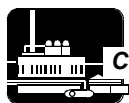


Table 5-16.	TRI Transfers Off-site for Further Waste Management by 4-digit SIC Code, 1988 and 1994-1996: Pulp and Paper, SIC Code 26.....	199
Table 5-17.	TRI Waste Management Data, 1991, 1994-1996: Pulp and Paper, SIC Code 26 .....	203
Figure 5-1.	Distribution of TRI On-site and Off-site Releases, 1996: Pulp and Paper (SIC Code 26).....	177
Figure 5-2.	TRI On-site and Off-site Releases, SIC Codes with Largest Releases, 1996: Pulp and Paper (SIC Code 26) .....	178
Figure 5-3.	Distribution of TRI Other On-site Waste Management, 1996: Pulp and Paper (SIC Code 26).....	179
Figure 5-4.	TRI Other On-site Waste Management, SIC Codes with Largest Totals, 1996: Pulp and Paper (SIC Code 26) .....	179
Figure 5-5.	Distribution of TRI Transfers Off-site for Further Waste Management, 1996: Pulp and Paper (SIC Code 26) .....	180
Figure 5-6.	TRI Transfers Off-site for Further Waste Management, SIC Codes with Largest Totals, 1996: Pulp and Paper (SIC Code 26) .....	181
Figure 5-7.	TRI On-site and Off-site Releases of OSHA Carcinogens, SIC Codes with Largest Totals, 1996: Pulp and Paper (SIC Code 26) .....	185
Figure 5-8.	Distribution of TRI Production-related Waste, 1996: Pulp and Paper (SIC Code 26).....	187
Figure 5-9.	Distribution of Production-related Waste, 1996: Pulp and Paper (SIC Code 26).....	187
Figure 5-10.	Projected Changes in Quantities of TRI Chemicals in Waste, 1996-1998: Pulp and Paper (SIC Code 26) .....	189
Figure 5-11.	Percentage Change in On-site and Off-site Releases, 1995-1996: Pulp and Paper (SIC Code 26).....	192
Figure 5-12.	Percentage Change in On-site and Off-site Releases, 1988-1996: Pulp and Paper (SIC Code 26).....	194
Figure 5-13.	Percentage Change in Quantities of TRI Chemicals in Waste, 1991-1996: Pulp and Paper (SIC Code 26) .....	204
Box 5-1.	SIC Code 26, Paper and Allied Products: Codes and Classifications.....	172
Map 5-1.	Total On- and Off-site Releases, 1996: Pulp and Paper, SIC Code 26 .....	183

## **CHAPTER 6    TOXICS RELEASE INVENTORY DATA FOR CHEMICAL MANUFACTURING (SIC CODE 28) ..... 207**

A Look at the Chemicals and Allied Products Industry (SIC Code 28) .....	207
Industrial Organic Chemicals .....	210
Plastics Materials and Synthetics .....	211
Drugs and Pharmaceuticals .....	211
1996 TRI Data for Chemical Manufacturing.....	211



Multiple Codes within SIC Code 28 .....	215
On- and Off-site Releases .....	216
Other On-site Waste Management .....	217
Transfers Off-site for Further Waste Management .....	218
1996 TRI Data by State for Chemical Manufacturing .....	218
1996 TRI Data by Chemical for Chemical Manufacturing .....	222
OSHA Carcinogens .....	225
1996 TRI Chemicals in Waste for Chemical Manufacturing .....	226
Projected Quantities of TRI Chemicals in Waste .....	229
Source Reduction Activity .....	230
Year-to-Year Comparisons for Chemical Manufacturing .....	231
1995-1996 TRI Data for Chemical Manufacturing .....	231
On- and Off-site Releases .....	231
Other On-site Waste Management .....	233
Transfers Off-site for Further Waste Management .....	233
1988-1996 TRI Data for Chemical Manufacturing .....	233
Changes in SIC Codes .....	234
1988-1996 Data for Four-Digit Industries in Chemical Manufacturing .....	234
On- and Off-site Releases .....	236
Other On-site Waste Management .....	236
Transfers Off-site for Further Waste Management .....	245
Facilities with Large Increases and Decreases in Releases, 1988-1996 .....	246
1991-1996 Waste Management Data for Chemical Manufacturing .....	247
Facilities with Large Increases and Decreases in Waste Management, 1991-1996 .....	249
Sources .....	252

## CHAPTER 6 EXHIBITS

Table 6-1.	Summary of TRI Information by 4-digit SIC Code, 1996: Chemical Manufacturing, SIC Code 28 .....	212
Table 6-2.	Multiple SIC Codes, 1996: Chemical Manufacturing, SIC Code 28 .....	214
Table 6-3.	TRI On-site and Off-site Releases, 1996: Chemical Manufacturing, SIC Code 28 (in Rank Order) .....	216
Table 6-4.	TRI Other On-site Waste Management, 1996: Chemical Manufacturing, SIC Code 28 (in Rank Order) .....	219
Table 6-5.	TRI Transfers Off-site for Further Waste Management, 1996: Chemical Manufacturing, SIC Code 28 (in Rank Order) .....	221
Table 6-6.	Summary of TRI Information by State, 1996: Chemical Manufacturing, SIC Code 28 .....	223
Table 6-7.	The 15 Chemicals with the Largest Total On-site and Off-site Releases, 1996: Chemical Manufacturing, SIC Code 28 (in Rank Order) ...	225

Table 6-8.	TRI On-site and Off-site Releases of OSHA Carcinogens by 4-digit SIC Code, 1996: Chemical Manufacturing, SIC Code 28 (in Rank Order) .....	226
Table 6-9.	Quantities of TRI Chemicals in Waste by 4-digit SIC Code, 1996: Chemical Manufacturing, SIC Code 28 (in Rank Order) .....	227
Table 6-10.	Current Year and Projected Quantities of TRI Chemicals in Waste, 1996-1998: Chemical Manufacturing, SIC Code 28 .....	229
Table 6-11.	Number of Forms Reporting Source Reduction Activity, 1996: Chemical Manufacturing, SIC Code 28 .....	231
Table 6-12.	Comparison of TRI On-site and Off-site Releases, Other On-site Waste Management, and Transfers Off-site for Further Waste Management, 1995-1996: Chemical Manufacturing, SIC Code 28 .....	232
Table 6-13.	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: Chemical Manufacturing, SIC Code 28 .....	235
Table 6-14.	TRI On-site and Off-site Releases by 4-digit SIC Code, 1988 and 1994-1996: Chemical Manufacturing, SIC Code 28 .....	237
Table 6-15.	TRI Other On-site Waste Management by 4-digit SIC Code, 1988 and 1994-1996: Chemical Manufacturing, SIC Code 28 .....	240
Table 6-16.	TRI Transfers Off-site for Further Waste Management by 4-digit SIC Code, 1988 and 1994-1996: Chemical Manufacturing, SIC Code 28 .....	243
Table 6-17.	TRI Waste Management Data, 1991, 1994-1996: Chemical Manufacturing, SIC Code 28 .....	248
Figure 6-1.	Distribution of TRI On-site and Off-site Releases, 1996: Chemical Manufacturing (SIC Code 28) .....	217
Figure 6-2.	TRI On-site and Off-site Releases, SIC Codes with Largest Releases, 1996: Chemical Manufacturing (SIC Code 28) .....	218
Figure 6-3.	Distribution of TRI Other On-site Waste Management, 1996: Chemical Manufacturing (SIC Code 28) .....	220
Figure 6-4.	TRI Other On-site Waste Management, SIC Codes with Largest Totals, 1996: Chemical Manufacturing (SIC Code 28) .....	220
Figure 6-5.	Distribution of TRI Transfers Off-site for Further Waste Management, 1996: Chemical Manufacturing (SIC Code 28) .....	222
Figure 6-6.	TRI Transfer Off-site for Further Waste Management, SIC Codes with Largest Totals, 1996: Chemical Manufacturing (SIC Code 28) .....	222
Figure 6-7.	TRI On-site and Off-site Releases of OSHA Carcinogens, SIC Codes with Largest Totals, 1996: Chemical Manufacturing (SIC Code 28) .....	227
Figure 6-8.	Distribution of TRI Production-related Waste, 1996: Chemical Manufacturing (SIC Code 28) .....	228

Figure 6-9.	Distribution of Production-related Waste, 1996: Chemical Manufacturing (SIC Code 28) .....	228
Figure 6-10.	Projected Percentage Changes in Quantities of TRI Chemicals in Waste, 1996–1998: Chemical Manufacturing (SIC Code 28) .....	230
Figure 6-11.	Percentage Change in On-site and Off-site Releases, 1995-1996: Chemical Manufacturing (SIC Code 28) .....	233
Figure 6-12.	Percentage Change in On-site and Off-site Releases, 1988-1996: Chemical Manufacturing (SIC Code 28) .....	236
Figure 6-13.	Percentage Change in Quantities of TRI Chemicals in Waste, 1991-1996: Chemical Manufacturing (SIC Code 28) .....	249
Box 6-1.	SIC Code 28, Chemicals and Allied Products: Codes and Classifications ...	208
Map 6-1.	Total On- and Off-site Releases, 1996: Chemical Manufacturing, SIC Code 28 .....	224

## **CHAPTER 7    TOXICS RELEASE INVENTORY DATA FOR PETROLEUM REFINING (SIC CODE 29) ..... 253**

A Look at the Petroleum Refining and Related Industries (SIC Code 29) .....	253
1996 TRI Data for Petroleum Refining .....	255
On- and Off-site Releases .....	255
Other On-site Waste Management .....	257
Transfers Off-site for Further Waste Management .....	259
1996 TRI Data by State for Petroleum Refining .....	260
1996 TRI Data by Chemical for Petroleum Refining .....	261
OSHA Carcinogens .....	264
1996 TRI Chemicals in Waste for Petroleum Refining .....	266
Projected Quantities of TRI Chemicals in Waste .....	267
Source Reduction Activity .....	270
Year-to-Year Comparisons for Petroleum Refining .....	270
1995-1996 TRI Data for Petroleum Refining .....	270
On- and Off-site Releases .....	270
Other On-site Waste Management .....	270
Transfers Off-site for Further Waste Management .....	272
1988-1996 TRI Data for Petroleum Refining .....	272
1988-1996 Data for Four-Digit Industries in Petroleum Refining .....	275
1991-1996 Waste Management Data for Petroleum Refining .....	279
Facilities with Large Increases and Decreases in Waste Management, 1991-1996 .....	279
Sources .....	283

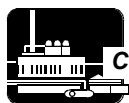
## CHAPTER 7    EXHIBITS

Table 7-1.	Summary of TRI Information by 4-digit SIC Code, 1996: Petroleum Refining, SIC Code 29 .....	256
Table 7-2.	Multiple SIC Codes, 1996: Petroleum Refining, SIC Code 29 .....	256
Table 7-3.	TRI On-site and Off-site Releases, 1996: Petroleum Refining, SIC Code 29 (in Rank Order) .....	256
Table 7-4.	TRI Other On-site Waste Management, 1996: Petroleum Refining, SIC Code 29 (in Rank Order) .....	258
Table 7-5.	TRI Transfers Off-site for Further Waste Management, 1996: Petroleum Refining, SIC Code 29 (in Rank Order) .....	260
Table 7-6.	Summary of TRI Information by State, 1996: Petroleum Refining, SIC Code 29 .....	262
Table 7-7.	The 15 Chemicals with the Largest Total On-site and Off-site Releases, 1996: Petroleum Refining, SIC Code 29 (in Rank Order) .....	264
Table 7-8.	TRI On-site and Off-site Releases of OSHA Carcinogens by 4-digit SIC Code, 1996: Petroleum Refining, SIC Code 29 (in Rank Order) .....	265
Table 7-9.	Quantities of TRI Chemicals in Waste by 4-digit SIC Code, 1996: Petroleum Refining, SIC Code 29 (in Rank Order) .....	266
Table 7-10.	Current Year and Projected Quantities of TRI Chemicals in Waste, 1996-1998: Petroleum Refining, SIC Code 29 .....	268
Table 7-11.	Number of Forms Reporting Source Reduction Activity, 1996: Petroleum Refining. SIC Code 29 .....	269
Table 7-12.	Comparison of TRI On-site and Off-site Releases, Other On-site Waste Management, and Transfers Off-site for Further Waste Management, 1995-1996: Petroleum Refining, SIC Code 29 .....	271
Table 7-13.	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: Petroleum Refining, SIC Code 29 .....	273
Table 7-14.	TRI On-site and Off-site Releases by 4-digit SIC Code, 1988 and 1994-1996: Petroleum Refining, SIC Code 29 .....	275
Table 7-15.	TRI Other On-site Waste Management by 4-digit SIC Code, 1988 and 1994-1996: Petroleum Refining, SIC Code 29 .....	276
Table 7-16.	TRI Transfers Off-site for Further Waste Management by 4-digit SIC Code, 1988 and 1994-1996: Petroleum Refining, SIC Code 29 .....	277
Table 7-17.	TRI Waste Management Data, 1991, 1994-1996: Petroleum Refining, SIC Code 29 .....	280
Figure 7-1.	Distribution of TRI On-site and Off-site Releases 1996: Petroleum Refining (SIC Code 29) .....	257
Figure 7-2.	TRI On-site and Off-site Releases, SIC Codes with Largest Releases, 1996: Petroleum Refining (SIC Code 29) .....	258
Figure 7-3.	Distribution of TRI Other On-site Waste Management, 1996: Petroleum Refining (SIC Code 29) .....	259

Figure 7-4.	TRI Other On-site Waste Management, SIC Codes with Largest Totals, 1996: Petroleum Refining (SIC Code 29).....	259
Figure 7-5.	Distribution of TRI Transfers Off-site for Further Waste Management, 1996: Petroleum Refining (SIC Code 29) .....	260
Figure 7-6.	TRI Transfers Off-site for Further Waste Management, SIC Codes with Largest Totals, 1996: Petroleum Refining (SIC Code 29) .....	261
Figure 7-7.	TRI On-site and Off-site Releases of OSHA Carcinogens, SIC Codes with Largest Releases, 1996: Petroleum Refining (SIC Code 29) .....	265
Figure 7-8.	Distribution of TRI Production-Related Waste, 1996: Petroleum Refining (SIC Code 29) .....	266
Figure 7-9.	Distribution of TRI Production-Related Waste, 1996: Petroleum Refining (SIC Code 29) .....	267
Figure 7-10.	Projected Percentage Changes in Quantities of TRI Chemicals in Waste, 1996-1998: Petroleum Refining (SIC Code 29) .....	269
Figure 7-11.	Percentage Change in On-site and Off-site Releases, 1995-1996: Petroleum Refining (SIC Code 29) .....	272
Figure 7-12.	Percentage Change in On-site and Off-site Releases, 1988-1996: Petroleum Refining (SIC Code 29) .....	274
Figure 7-13.	Percentage Change in Quantities of TRI Chemicals in Waste, 1991-1996: Petroleum Refining (SIC Code 29) .....	281
Box 7-1.	SIC Code 29, Petroleum Refining and Related Industries: Codes and Classifications .....	254
Map 7-1.	Total On- and Off-site Releases, 1996: Petroleum Refining, SIC Code 29 .....	263

## **CHAPTER 8    TOXICS RELEASE INVENTORY DATA FOR PRIMARY METALS (SIC CODE 33) ..... 285**

A Look at the Primary Metal Industries (SIC Code 33) .....	285
Steel .....	285
Aluminum, Copper, Lead, Zinc, and Other Nonferrous Metals .....	289
Other Environmental Issues .....	290
1996 TRI Data for Primary Metals .....	290
Multiple Codes within SIC Code 33 .....	291
On- and Off-site Releases .....	293
Other On-site Waste Management.....	293
Transfers Off-site for Further Waste Management .....	294
1996 TRI Data by State for Primary Metals .....	297
1996 TRI Data by Chemical for Primary Metals .....	298
OSHA Carcinogens .....	300
1996 TRI Chemicals in Waste for Primary Metals .....	302



Projected Quantities of TRI Chemicals in Waste .....	304
Source Reduction Activity .....	305
Year-to-Year Comparisons for Primary Metals .....	306
1995-1996 TRI Data for Primary Metals .....	306
On- and Off-site Releases .....	307
Other On-site Waste Management .....	308
Transfers Off-site for Further Waste Management .....	308
1988-1996 TRI Data for Primary Metals .....	309
1988-1996 Data for Four-Digit Industries in Primary Metals .....	313
Facilities with Large Increases and Decreases in Releases, 1988-1996 .....	319
1991-1996 Waste Management Data for Primary Metals .....	323
Facilities with Large Increases and Decreases in Waste Management, 1991-1996 .....	324
Sources .....	328

## CHAPTER 8 EXHIBITS

Table 8-1.	Summary of TRI Information by 4-digit SIC Code, 1996: Primary Metals, SIC Code 33 .....	288
Table 8-2.	Multiple SIC Codes, 1996: Primary Metals, SIC Code 33 .....	291
Table 8-3.	TRI On-site and Off-site Releases, 1996: Primary Metals, SIC Code 33 (in Rank Order) .....	292
Table 8-4.	TRI Other On-site Waste Management, 1996: Primary Metals, SIC Code 33 (in Rank Order) .....	295
Table 8-5.	TRI Transfers Off-site for Further Waste Management, 1996: Primary Metals, SIC Code 33 (in Rank Order) .....	297
Table 8-6.	Summary of TRI Information by State, 1996: Primary Metals, SIC Code 33 .....	300
Table 8-7.	The 15 Chemicals with the Largest Total On-site and Off-site Releases, 1996: Primary Metals, SIC Code 33 (in Rank Order) .....	302
Table 8-8.	TRI On-site and Off-site Releases of OSHA Carcinogens by 4-digit SIC Code, 1996: Primary Metals, SIC Codes 33 (in Rank Order) .....	303
Table 8-9.	Quantities of TRI Chemicals in Waste by 4-digit SIC Code, 1996: Primary Metals, SIC Code 33 (in Rank Order) .....	305
Table 8-10.	Current Year and Projected Quantities of TRI Chemicals in Waste, 1996-1998: Primary Metals, SIC Code 33 .....	307
Table 5-10.	Current Year and Projected Quantities of TRI Chemicals in Waste, 1996-1998: Pulp and Paper, SIC Code 26 .....	308
Table 8-11.	Number of Forms Reporting Source Reduction Activity, 1996: Primary Metals, SIC Code 33 .....	309
Table 8-12.	Comparison of TRI On-site and Off-site Releases, Other On-site Waste Management, and Transfers Off-site for Further Waste Management, 1995-1996: Primary Metals, SIC Code 33 .....	310

Table 8-13.	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: Primary Metals, SIC Code 33 .....	312
Table 8-14.	TRI On-site and Off-site Releases by 4-digit SIC Code, 1988 and 1994-1996: Primary Metals, SIC Code 33 .....	314
Table 8-15.	TRI Other On-site Waste Management by 4-digit SIC Code, 1988 and 1994-1996: Primary Metals, SIC Code 33 .....	317
Table 8-16.	TRI Transfers Off-site for Further Waste Management by 4-digit SIC Code, 1988 and 1994-1996: Primary Metals, SIC Code 33 .....	320
Table 8-17.	TRI Waste Management Data, 1991, 1994-1996: Primary Metals, SIC Code 33 .....	325
Figure 8-1.	Distribution of TRI On-site and Off-site Releases, 1996: Primary Metals (SIC Code 33) .....	293
Figure 8-2.	TRI On-site and Off-site Releases, SIC Codes with Largest Releases, 1996: Primary Metals (SIC Code 33) .....	294
Figure 8-3.	Distribution of TRI Other On-site Waste Management, 1996: Primary Metals (SIC Code 33) .....	296
Figure 8-4.	TRI Other On-site Waste Management, SIC Codes with Largest Totals, 1996: Primary Metals (SIC Code 33) .....	296
Figure 8-5.	Distribution of TRI Transfers Off-site for Further Waste Management, 1996: Primary Metals (SIC Code 33) .....	298
Figure 8-6.	TRI Transfers Off-site for Further Waste Management, SIC Codes with Largest Totals, 1996: Primary Metals (SIC Code 33) .....	299
Figure 8-7.	TRI On-site and Off-site Releases of OHSA Carcinogens, SIC Codes with Largest Totals, 1996: Primary Metals (SIC Code 33) .....	304
Figure 8-8.	Distribution of TRI Production-related Waste, 1996: Primary Metals (SIC Code 33) .....	305
Figure 8-9.	Distribution of Production-related Waste, 1996: Primary Metals (SIC Code 33) .....	306
Figure 8-10.	Projected Percentage Changes in Quantities of TRI Chemicals in Waste, 1996-1998: Primary Metals (SIC Code 33) .....	308
Figure 8-11.	Percentage Change in On-site and Off-site Releases Quantities, 1995-1996: Primary Metals (SIC Code 33) .....	311
Figure 8-12.	Percentage Change in On-site and Off-site Releases, 1988-1996: Primary Metals (SIC Code 33) .....	316
Figure 8-13.	Percentage Change in Quantities of TRI Chemicals in Waste, 1991-1996: Primary Metals (SIC Code 33) .....	326
Box 8-1.	SIC Code 33, Primary Metal Industries: Codes and Classifications .....	286
Map 8-1.	Total On- and Off-site Releases, 1996: Primary Metals, SIC Code 33 .....	301

## **CHAPTER 9    TOXICS RELEASE INVENTORY DATA FOR ELECTRICAL EQUIPMENT (SIC CODE 36) ..... 329**

A Look at Electronic and Other Electrical Equipment and Components, Except Computer Equipment (SIC Code 36) .....	329
1996 TRI Data for Electrical Equipment .....	334
On- and Off-site Releases .....	335
Other On-site Waste Management .....	336
Transfers Off-site for Further Waste Management .....	337
1996 TRI Data by State for Electrical Equipment .....	339
1996 TRI Data by Chemical for Electrical Equipment .....	344
OSHA Carcinogens .....	344
1996 TRI Chemicals in Waste for Electrical Equipment .....	346
Transfers Off-site to Disposal .....	346
Projected Quantities of TRI Chemicals in Waste .....	347
Source Reduction Activity .....	349
Year-to-Year Comparisons for Electrical Equipment .....	350
1995-1996 TRI Data for Electrical Equipment .....	350
On- and Off-site Releases .....	351
Other On-site Waste Management .....	353
Transfers Off-site for Further Waste Management .....	353
1988-1996 TRI Data for Electrical Equipment .....	354
1988-1996 Data for Four-Digit Industries in Electrical Equipment .....	356
Facilities with Large Increases and Decreases in Releases, 1988-1996 .....	360
1991-1996 Waste Management Data for Electrical Equipment .....	369
Facilities with Large Increases and Decreases in Waste Management, 1991-1996 .....	369
Sources .....	373

## **CHAPTER 9    EXHIBITS**

Table 9-1.	Summary of TRI Information by 4-digit SIC Code, 1996: Electrical Equipment, SIC Code 36 .....	332
Table 9-2.	Multiple SIC Codes, 1996: Electrical Equipment, SIC Code 36 .....	335
Table 9-3.	TRI On-site and Off-site Releases, 1996: Electrical Equipment, SIC Code 36 (in Rank Order) .....	336
Table 9-4.	TRI Other On-site Waste Management, 1996: Electrical Equipment, SIC Code 36 (in Rank Order) .....	338
Figure 9-3.	Distribution of TRI Other On-site Waste Management, 1996: Electrical Equipment (SIC Code 36) .....	338
Table 9-5.	TRI Transfers Off-site for Further Waste Management, 1996: Electrical Equipment, SIC Code 36 (in Rank Order) .....	340
Table 9-6.	Summary of TRI Information by State, 1996: Electrical Equipment, SIC Code 36 .....	342



Table 9-7.	The 15 Chemicals with the Largest Total On-site and Off-site Releases, 1996: Electrical Equipment, SIC Code 36 (in Rank Order) .....	344
Table 9-8.	TRI On-site and Off-site Releases of OSHA Carcinogens by 4-digit SIC Code, 1996: Electrical Equipment, SIC Code 36 (in Rank Order) .....	345
Table 9-9.	Quantities of TRI Chemicals in Waste by 4-digit SIC Code, 1996: Electrical Equipment, SIC Code 36 (in Rank Order) .....	347
Table 9-10.	Current Year and Projected Quantities of TRI Chemicals in Waste, 1996-1998: Electrical Equipment, SIC Code 26 .....	349
Table 9-11.	Number of Forms Reporting Source Reduction Activity, 1996: Electrical Equipment, SIC Code 36 .....	351
Table 9-12.	Comparison of TRI On-site and Off-site Releases, Other On-site Waste Management, and Transfers Off-site for Further Waste Management, 1995-1996: Electrical Equipment, SIC Code 36 .....	352
Table 9-13.	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: Electrical Equipment, SIC Code 36 .....	355
Table 9-14.	TRI On-site and Off-site Releases by 4-digit SIC Code, 1988 and 1994-1996: Electrical Equipment, SIC Code 36 .....	357
Table 9-15.	TRI Other On-site Waste Management by 4-digit SIC Code, 1988 and 1994-1996: Electrical Equipment, SIC Code 36 .....	361
Table 9-16.	TRI Transfers Off-site for Further Waste Management by 4-digit SIC Code, 1988 and 1994-1996: Electrical Equipment, SIC Code 36 .....	365
Table 9-17.	TRI Waste Management Data, 1991, 1994-1996: Electrical Equipment, SIC Code 36 .....	370
Figure 9-1.	Distribution of TRI On-site and Off-site Releases, 1996: Electrical Equipment (SIC Code 36) .....	337
Figure 9-2.	TRI On-site and Off-site Releases, SIC Codes with Largest Releases, 1996: Electrical Equipment (SIC Code 36) .....	337
Figure 9-3.	Distribution of TRI Other On-site Waste Management, 1996: Electrical Equipment (SIC Code 36) .....	339
Figure 9-4.	TRI Other On-site Waste Management, SIC Codes with Largest Totals, 1996: Electrical Equipment (SIC Code 36) .....	339
Figure 9-5.	Distribution of TRI Transfers Off-site for Further Waste Management, 1996: Electrical Equipment (SIC Code 36) .....	341
Figure 9-6.	TRI Transfers Off-site for Further Waste Management, SIC Codes with Largest Totals, 1996: Electrical Equipment (SIC Code 36) .....	341
Figure 9-7.	TRI On-site and Off-site Releases of OSHA Carcinogens, SIC Codes with Largest Totals, 1996: Electrical Equipment (SIC Code 36) .....	346

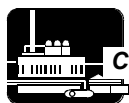


Figure 9-8.	Distribution of TRI Production-related Waste, 1996: Electrical Equipment (SIC Code 36) .....	348
Figure 9-9.	Distribution of Production-related Waste, 1966 Electrical Equipment (SIC Code 36) .....	348
Figure 9-10.	Projected Percentage Changes in Quantities of TRI Chemicals in Waste, 1996-1998: Electrical Equipment (SIC Code 36) .....	350
Figure 9-11.	Percentage Change in On-site and Off-site Releases, 1995-1996: Electrical Equipment (SIC Code 36) .....	353
Figure 9-12.	Percentage Change in On-site and Off-site Releases, 1988-1996: Electrical Equipment (SIC Code 36) .....	354
Figure 9-13.	Percentage Changes in Quantities of TRI Chemicals in Waste, 1991-1996: Electrical Equipment (SIC Code 36) .....	371
Box 9-1.	SIC Code 36, Electronic and Other Electrical Equipment and Components, Except Computer Equipment: Codes and Classifications .....	330
Map 9-1.	Total On- and Off-site Releases, 1996: Electrical Equipment, SIC Code 36 .....	343

## **CHAPTER 10    TOXICS RELEASE INVENTORY DATA FOR FEDERAL FACILITIES ..... 375**

A Look at the Federal Facilities Reporting to TRI .....	375
1996 TRI Data for Federal Facilities .....	375
On- and Off-site Releases .....	377
Other On-site Waste Management .....	378
Transfers Off-site for Further Waste Management .....	379
1996 TRI Data by State for Federal Facilities .....	380
1996 TRI Data by Chemical for Federal Facilities .....	381
OSHA Carcinogens .....	382
1996 TRI Chemicals in Waste for Federal Facilities .....	385
Projected Quantities of TRI Chemicals in Waste .....	387
Source Reduction Activity .....	388
Year-to-Year Comparisons for Federal Facilities .....	389
1995-1996 TRI Data for Federal Facilities .....	389
On- and Off-site Releases .....	389
Other On-site Waste Management .....	390
Transfers Off-site for Further Waste Management .....	391
1995-1996 Waste Management Data for Federal Facilities .....	396
Facilities with Large Increases and Decreases in Waste Management, 1995-1996 .....	396
1994-1996 TRI Data for Federal Facilities .....	397
On- and Off-site Releases .....	397
Transfers Off-site for Further Waste Management .....	400

Facilities with Large Increases and Decreases in Releases, 1994-1996 .....	400
1994-1996 Waste Management Data for Federal Facilities .....	402
Facilities with Large Increases and Decreases in Waste Management, 1994-1996 .....	405

## **CHAPTER 10    EXHIBITS**

Table 10-1.	Summary of TRI Information by Agency, 1996: Federal Facilities .....	376
Table 10-2.	TRI On-site and Off-site Releases, 1996: Federal Facilities .....	377
Table 10-3.	TRI Other On-site Waste Management, 1996: Federal Facilities .....	379
Table 10-4.	TRI Transfers Off-site for Further Waste Management, 1996: Federal Facilities .....	380
Table 10-5.	Summary of TRI Information by State, 1996: Federal Facilities .....	382
Table 10-6.	The 15 Chemicals with the Largest Total On-site and Off-site Releases, 1996: Federal Facilities (in Rank Order) .....	383
Table 10-7.	TRI On-site and Off-site Releases of OSHA Carcinogens, 1996: Federal Facilities (in Rank Order) .....	385
Table 10-8.	Quantities of TRI Chemicals in Waste, 1996: Federal Facilities .....	386
Table 10-9.	Current Year and Projected Quantities of TRI Chemicals in Waste, 1996-1998: Federal Facilities .....	388
Table 10-10.	Number of Forms Reporting Source Reduction Activity, 1996: Federal Facilities .....	389
Table 10-12.	TRI On-site and Off-site Releases, 1995-1996: Federal Facilities .....	393
Table 10-11.	Comparison of TRI On-site and Off-site Releases, Other On-site Waste Management, and Transfers Off-site for Further Waste Management, 1995-1996: Federal Facilities .....	391
Table 10-13.	TRI Other On-site Waste Management, 1995-1996: Federal Facilities .....	394
Table 10-14.	TRI Transfers Off-site for Further Waste Management, 1995-1996: Federal Facilities .....	395
Table 10-15.	TRI Waste Management Data, 1995-1996: Federal Facilities .....	398
Table 10-16.	Comparison of TRI On-site and Off-site Releases, Other On-site Waste Management, and Transfers for Further Waste Management, 1994-1996: Federal Facilities .....	399
Table 10-17.	TRI On-site and Off-site Releases, by Agency, 1994-1996: Federal Facilities .....	401
Table 10-18.	TRI Other On-site Waste Management by Agency, 1994-1996: Federal Facilities .....	404
Table 10-19.	TRI Transfers Off-site for Further Waste Management, by Agency, 1994-1996: Federal Facilities .....	406
Table 10-20.	TRI Waste Management Data, 1994-1996: Federal Facilities .....	407
Figure 10-1.	Distribution of TRI On-site and Off-site Releases, 1996: Federal Facilities .....	377

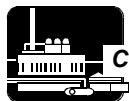


Figure 10-2.	TRI On-site and Off-site Releases, 1996: Federal Facilities (Agencies with Largest Totals) .....	378
Figure 10-3.	Distribution of TRI Other On-site Waste Management, 1996: Federal Facilities .....	379
Figure 10-4.	TRI Other On-site Waste Management, 1996: Federal Facilities (Agencies with Largest Totals) .....	381
Figure 10-5.	Distribution of TRI Transfers Off-site for Further Waste Management, 1996: Federal Facilities .....	381
Figure 10-6.	TRI Transfers Off-site for Further Waste Management, 1996: Federal Facilities (Agencies with Largest Totals) .....	383
Figure 10-7.	TRI On-site and Off-site Releases of OHSA Carcinogens, 1996: Federal Facilities (Agencies with Largest Totals) .....	386
Figure 10-8.	Distribution of TRI Production-related Waste, 1996: Federal Facilities .....	387
Figure 10-9.	Distribution of Production-related Waste, 1996: Federal Facilities .....	387
Figure 10-10.	Percentage Changes in On-site and Off-site Releases, 1995-1996: Federal Facilities .....	390
Figure 10-11.	Percentage Change in On-site and Off-site Releases, 1994-1996: Federal Facilities .....	400
Box 10-1.	Federal Agencies Reporting to TRI .....	376
Box 10-2.	Correction to TRI Other On-site Waste Management Data, 1995-1996: Federal Facilities .....	392
Box 10-3.	Corrected On-site Waste Management Quantities, 1994-1996: Federal Facilities .....	403
Map 10-1.	Total On- and Off-site Releases, 1996: Federal Facilities .....	384

## **APPENDICES**

### **APPENDIX A EPA REGIONAL OFFICE AND STATE TRI CONTACTS ..... A-1**

EPA Regional Section 313 Coordinators .....	A-1
State TRI Public Contacts .....	A-3

### **APPENDIX B PUBLIC ACCESS TO THE TOXICS RELEASE INVENTORY AND RELATED INFORMATION ..... B-1**

Accessing Toxics Release Inventory (TRI) Products and Services .....	B-2
Products .....	B-2
Assistance Services .....	B-5
Online Services .....	B-6

**APPENDIX C    ADDITIONAL INFORMATION FOR ASSESSING THE  
IMPACTS OF TRI CHEMICALS ..... C-1**

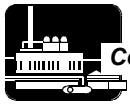
Hazard Data Availability on High Production Volume (HPV) TRI Chemicals .....	C-1
Screening Information System/LAN (SIS/L) .....	C-7
SIS/L Information Lists .....	C-8

**APPENDIX C    EXHIBITS**

Table A.	Hazard Data Availability of U.S. High Production Volume TRI Chemicals .....	C-2
Table B.	Hazard Data Availability for U.S. High Production Volume (HPV) TRI Chemicals .....	C-5
Table C.	Hazard Data Availability for U.S. High Production Volume (HPV) TRI Chemicals: Total On-and Off-site Releases in Excess of 1 Million Pounds.....	C-6
Table D.	Screening Information System/LAN .....	C-9
Figure A.	Hazard Data Availability for U.S. High Production Volume (HPV) TRI Chemical.....	C-6
Figure B.	Hazard Data Availability for U.S. High Production Volume (HPV) TRI Chemicals: Total On-and Off-site Releases in Excess of 1 Million Pounds.....	C-7

**APPENDIX D    TRI FORM R AND FORM A FOR 1996 ..... D-1**

Form R .....	D-1
Form A Certification Statement .....	D-1



## ***Contents***