

TABLE OF CONTENTS

Executive Summary	1
Introduction	
What is the Toxics Release Inventory?	2
Reporting Requirements	2
Limitations of TRI Data	4
Recent Developments in TRI Reporting	5
2013 Data Summary	
Data Summary	6
Types of Data	6
On-Site Releases	
Releases to Air	8
Releases to Water	9
Releases to Land	10
Off-Site Transfers	11
On-Site Waste Management	12
Total Waste	13
2013 Data Detail	
On-Site Releases by County	14
NAICS Industry Groups	15
Releases From Top 15 Facilities	16
Facilities No Longer Reporting to TRI	18
Persistent Bioaccumulative Toxic (PBT) Chemicals 2003-2013	19
Dioxin and Dioxin-Like Compounds	21
Mercury and Mercury Compounds	23
Carcinogenic TRI Chemicals	25
Carcinogen Trends, 2003-2013	25
Trend Analysis, Effect of Chemical and Facility Group Additions, 1990-2013	29
Release and Waste Management Trends, 2003-2013	
On-Site Releases, 2003-2013	32
Off-Site Transfers, 2003-2013	35
On-Site Waste Management, 2003-2013	36
Receiving TRI Chemicals in Wastes	38
Pollution Prevention Programs in Delaware	39
National Perspective	40
Nearby Facilities in Adjacent States	42
TRI and the Economy	45
For Further Information	46



TABLE OF CONTENTS, Continued

Appendices

- Appendix A - What is Community Right-to-Know?
- Appendix B - Facility Information Sheets
- Appendix C - 2013 On-Site Releases by Facility and Chemical
- Appendix D - 2013 Off-Site Transfers and Waste Managed On-Site by Facility
- Appendix E - 2013 On-Site Release Summary by Facility (Ranked by Total On-Site Release)
- Appendix F - 2013 On-Site Releases by Chemical and Facility
- Appendix G - 2013 Off-Site Transfers and Waste Managed On-Site by Chemical
- Appendix H - 2013 On-Site Release Summary by Chemical (Ranked by On-Site Release)
- Appendix I - 2013 PBT Release and Transfer Detail (Alphabetical by Chemical)
- Appendix J - 2013 Carcinogen Release Detail (Alphabetical by Chemical)
- Appendix K - Glossary and Acronyms
- Appendix L - TRI Reporting Form R
- Appendix M - TRI Reporting Form A
- Appendix N - TRI Reporting Forms Dioxin Schedule 1

Tables

Table 1: Covered Industries	3
Table 2: 2013 TRI Data Summary	6
Table 3: TRI Chemicals Released to Water by Water Body in 2013.	9
Table 4: TRI Chemicals Released to Water by Basin	10
Table 5: 2013 TRI Data by Primary NAICS Group	15
Table 6: Top 15 Facilities - 2012 and 2013 Ranking by On-Site Release	17
Table 7: 2013 Delaware PBT Chemicals and Reporting Thresholds	19
Table 8: 2013 TRI PBT Data Summary	20
Table 9: 2013 TRI PBT Release by Chemical	21
Table 10: Dioxin Toxic Equivalent Factors (TEF)	22
Table 11: Facilities Sorted by Dioxin Toxic Equivalent Quantity (TEQ)	22
Table 12: Carcinogens Reported by Delaware Facilities for 2013	25
Table 13: 2003-2013 TRI Carcinogens, On-Site Releases	26
Table 14: Trend of On-Site Releases For Chemical and Facility Additions	30
Table 15: 2003-2013 TRI Data Summary	31
Table 16: Reports of Major Changes in On-Site Releases For 2013.	33
Table 17: Major Changes in Off-Site Transfers for 2013.	36
Table 18: Major Changes in On-Site Waste Management for 2013	37
Table 19: Summary of Transfers to Delaware Facilities From Other TRI Facilities in 2013	38
Table 20: Ranking of On-Site Releases for Select States.	40
Table 21: Select Facility Total On-Site Releases Compared to Delaware	41
Table 22: Comparison of Dioxin Totals For Select Facilities to Delaware Total	41
Table 23: Comparison of Mercury Totals For Select Facilities to Delaware Total	42
Table 24: On-Site Releases From Nearby Facilities in Adjacent States	43

TABLE OF CONTENTS, Continued

Figures

Figure 1: 2013 On-Site Releases	8
Figure 2: Top 15 Chemicals Released to Air	8
Figure 3: Top 15 Chemicals Released to Water	9
Figure 4: Top 15 Chemicals Released to Land	10
Figure 5: 2013 Off-Site Transfers	11
Figure 6: 2013 On-Site Waste Management	12
Figure 7: Total 2013 TRI Chemical Management	13
Figure 8: TRI On-Site Releases Reported by County	14
Figure 9: Top 5 NAICS Industries for 2012, Percent On-site Release	15
Figure 10: On-Site Releases to Media, Top 4 Industry Segments	16
Figure 11: 2013 On-Site Releases, Top 15 Facilities	16
Figure 12: Top 15 Facilities On-Site Release	17
Figure 13: Delaware Mercury Trends, On-Site Release, All Facilities	23
Figure 14: 2013 On-Site Mercury Releases From Delaware Facilities	24
Figure 15: Releases to Air, Water, and Land, All TRI Carcinogens, 2003-2013	26
Figure 16: Total TRI Carcinogen On-Site Release, 2003-2013	27
Figure 17: Effect of Chemical and Facility Group Additions, 1990-2013	30
Figure 18: Trend of Delaware TRI On-Site Releases, 2003-2013	32
Figure 19: On-Site Release Trend, Top 5 TRI chemicals, 2003-2013	33
Figure 20: Trend of TRI On-site Releases 2009-2013	34
Figure 21: Trend of Delaware On-site Releases without Delaware City Refinery 2009-2013	34
Figure 22: Off-Site Transfers, 2003-2013	35
Figure 23: Off-Site Transfers, 2003-2013	35
Figure 24: On-Site Waste Management, 2003-2013	36
Figure 25: Total TRI On-Site Release Trends, Delaware and Nearby States	41
Figure 26: Facilities in Nearby States	44
Figure 27: 2013 Production Index Distribution	45