



Chemicals in Washington State Summary Report 2001

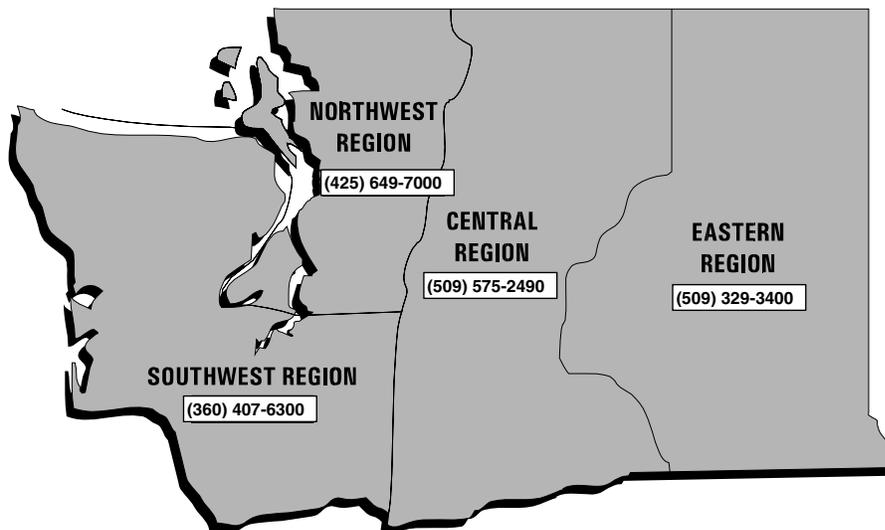


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Chemicals in Washington State Summary Report 2001

Toxics Release Inventory and Tier Two - Emergency and Hazardous Chemical Inventory

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Executive Summary

Statewide Summary of Hazardous Chemical Inventory in Washington State, 2001

About 3,000 facilities in the state of Washington reported storage of one or more hazardous chemicals at reportable levels during 2001. Under the Emergency Planning and Community Right-to-Know Act Section 312, Tier Two reporting requirements, the reportable threshold for all hazardous substances is 10,000 pounds stored at any one time and much lower thresholds for extremely hazardous substances (EHS).

In 1998, reporting thresholds for retail gas stations were increased to 75,000 gallons for gasoline and 100,000 gallons for diesel. Since then, the number of reporting facilities has dropped from nearly 4,000 sites to about 3,000 sites, which decreased the volume of diesel fuels and gasoline reported. Still, two of the three most commonly reported hazardous chemicals for 2001 were diesel fuel and gasoline.

Top Three Hazardous Substances Reported in Storage

	Chemical	Times Reported
1	Diesel Fuel	1091
2	Gasoline	779
3	Propane	491

Extremely hazardous substances have significantly lower thresholds for reporting due to their acute risk to employees, the public and the environment. The most commonly reported EHSs were sulfuric acid, ammonia, and chlorine.

Top Three Extremely Hazardous Substances Reported in Storage

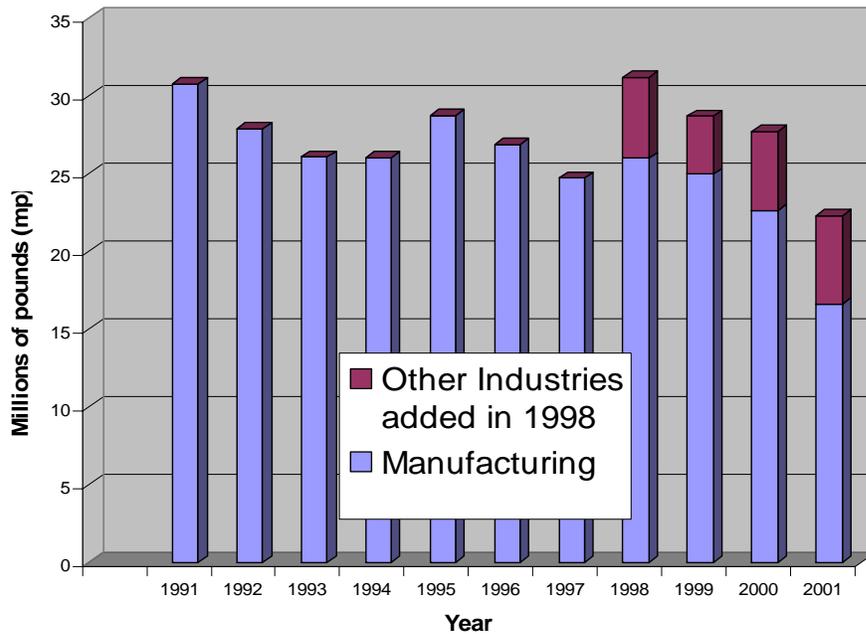
	Chemical	Times Reported
1	Sulfuric Acid	819
2	Ammonia	445
3	Chlorine	290

Statewide Summary of Toxics Release Inventory in Washington State, 2001

In the year 2001, 349 facilities reported releases of 22.3 million pounds of toxic chemicals to the air, land and water in Washington State. This was a decrease of 5.4 million pounds compared to reported releases in 2000.

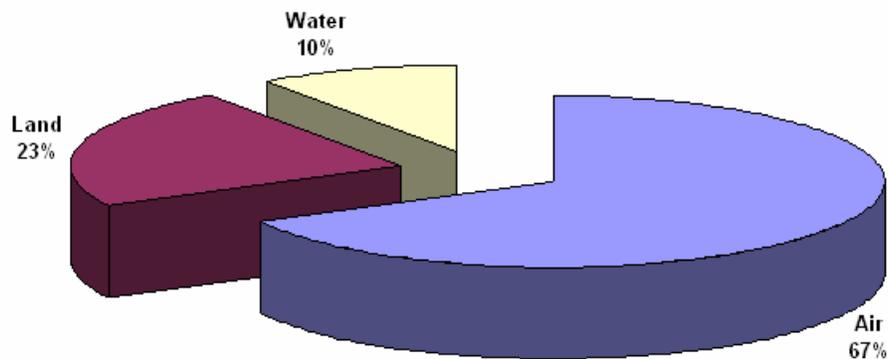
Since 1991, total releases of all reported chemicals by manufacturing sectors decreased by over 46%.

Washington State TRI Releases, 1991-2001



Releases to Air, Water and Land, 2001

The relative percentage of releases to land increased with the 1998 addition of the mining and electric utilities industry categories. However, the greatest percentage of releases consistently continues to be to air.



Top Releases, 2001

Top Three Industries Reporting Releases

<u>Industry</u>	Releases ^{mp}	
1 Paper and Allied Products	8.4	Paper & Allied Products, decreased their total reported releases by about 1.7 million pounds from 2000.
2 Electric Services	5.1	
3 Petroleum Refining	2.4	

Top Three Facilities Reporting Releases

<u>Facility</u>	Releases ^{mp}	
1 Transalta Central Generation/Mining	4.9	Transalta Central Generation/ Mining, in the electric services industry category, reported increased releases by 615,000 pounds from 2000.
2 Weyerhaeuser Co., Longview	2.3	
3 Tesoro Refining & Marketing	1.4	

Top Three Chemical Releases

<u>Chemical</u>	Releases ^{mp}	
1 Methanol	3.6	Methanol had the highest amount of reported releases – about 800,000 pounds less than in 2000.
2 Barium Compounds	2.4	
3 Sulfuric Acid (acid aerosols only)	1.8	

Top Three Carcinogen Reporting Releases

<u>Carcinogen</u>	Releases ^{mp}	
1 Styrene	1.1	Releases of carcinogens (known or suspected cancer-causing chemicals as defined by OSHA) decreased about 900,000 pounds from 2000.
2 Acetaldehyde	0.60	
3 Lead Compounds	0.22	

Top Three Counties Reporting Releases

<u>Counties</u>	Releases ^{mp}	
1 Lewis	4.9	Facilities located in Lewis County reported releases of more than 4 million pounds.
2 Cowlitz	3.2	
3 Skagit	1.8	

mp = millions of pounds

TRI Persistent, Bioaccumulative Toxic Chemical (PBT) Reporting

Reporting year 2001 was the second year that certain persistent, bioaccumulative, toxic (PBT) chemicals had lower thresholds for reporting under TRI. Thresholds were 10 pounds (chemicals like mercury) or 100 pounds (polycyclic aromatic compounds) or 0.1 grams (dioxin and dioxin-like compounds category). It was the first year that lead and lead compounds had thresholds of 100 pounds for reporting. The greatest percentage of PBT chemicals reported was in the lead and lead compounds category. Eighty-six (86) grams of the dioxin and dioxin-like compounds were reported released.

Top Three PBT Chemicals

<u>Chemical</u>	Releases ^p	Mercury and mercury compound releases decreased by 1,479 pounds from 2000 to 2001.
1 Lead and lead compounds	256,000	
2 Polycyclic Aromatic Compounds	20,000	
3 Dibutyl phthalate	6,600	

p = pounds

Uses of Hazardous Chemical Inventory (Tier Two) and Toxics Release Inventory (TRI) Data

The Hazardous Chemical Inventory (Tier Two) data is used for emergency planning activities. Local Emergency Planning Committees (LEPCs) use the information for emergency preparedness, disaster planning, and counter-terrorism planning. Local fire departments use the information for incident responses at or near reporting facilities.

The Department of Ecology (Ecology) uses TRI data as one of several environmental indicators for the state. The data also serve as a valuable tool for monitoring the progress of pollution-prevention efforts and for measuring the effectiveness of pollution-prevention programs underway in Washington State. TRI data is also widely used by communities, public health and other government agencies and other groups.

For More Information

Additional information on reporting under the Community Right-to-Know regulation is available on our web site at <http://www.ecy.wa.gov/programs/hwtr/epcra>. The Toxics Release Inventory Display System (TRIDS), a free graphic computer program for viewing TRI data is available for downloading at this site. Ecology developed TRIDS under a grant from EPA.

Introduction

Congress enacted the Emergency Planning and Community Right-to-Know Act (EPCRA) into federal law on October 17, 1986. EPCRA helps communities deal safely and effectively with hazardous chemicals. The law includes a number of requirements for businesses and government. It is intended to improve emergency planning for hazardous chemicals at the local level. EPCRA has a number of provisions, but its primary objectives are to:

- Enhance emergency response capabilities for chemical incidents;
- Expand emergency planning for hazardous chemical incidents;
- Identify storage, use and release of hazardous chemicals in communities; and
- Promote communication between facilities that handle hazardous chemicals, the community and local planners.

EPCRA contains five sections that deal with the various reporting requirements of businesses. A facility may be subject to one or all of the sections depending on the type of chemicals it uses and the quantities stored or released. This summary focuses on two of the EPCRA reporting requirements: Tier Two - Emergency & Hazardous Chemical Inventory Reporting (Section 312) and Toxic Chemical Release Reporting (Section 313).

Tier Two – Hazardous Chemical Inventory Reporting

Any facility in Washington State that stores a certain amount of a hazardous chemical must report this once a year. Under Section 312, the facility must file a Tier Two - Emergency and Hazardous Chemical Inventory report by March 1st, for any hazardous chemicals present in amounts at or above the threshold level at any time during the previous calendar year. The Tier Two reports are filed with Ecology, representing the State Emergency Response Commission (SERC). The reports are also filed with the Local Emergency Planning Committee (LEPC) and local fire department. The information required on the Tier Two reports include facility identification, chemical name, health hazards, codes representing maximum and average amounts on-site, and storage and location descriptions. Ecology enters this information into a tracking system for sharing with the public, LEPCs, fire departments and other interested parties.

In addition to tracking the hazardous chemicals, Tier Two data includes the number of facilities storing extremely hazardous substances (EHS). Approximately 350 chemical compounds classified as EHS chemicals are listed by the Environmental Protection Agency (EPA).

Tier Two reports tell us what chemicals are stored in our communities. LEPCs and local fire departments use the information for emergency preparedness, counter-terrorism planning and emergency response to incidents at or near reporting facilities.

Toxic Chemical Release Reporting

Toxic Chemical Release Reporting is tracked through an annual summary called the Toxics Release Inventory (TRI). The TRI tracks the amount of toxic chemicals released into the air, land and water by certain facilities. Over 600 chemical compounds and/or chemical categories listed under Section 313 of EPCRA are reported under the TRI.

TRI reports are filed every year with EPA and the Department of Ecology. Forms submitted by facilities are due on July 1st, for the preceding calendar year's releases. For 2001 reporting, the due date for filing was July 1, 2002. After completing data entry and data quality checks, EPA and Ecology compile a TRI database. Each agency publishes an annual summary report. EPA reports from a national perspective, while Ecology focuses on Washington State.

Ecology uses TRI data as one of several environmental indicators for the state. The data also serve as a valuable tool for monitoring the progress of pollution-prevention efforts and for measuring the effectiveness of pollution-prevention programs underway in Washington. Under a grant from EPA, Ecology developed the Toxics Release Inventory Display System (TRIDS), a free graphic computer program for viewing TRI data. This display program is available for downloading (copying) on Ecology's website at <http://www.ecy.wa.gov>.

Tier Two – Emergency & Hazardous Chemical Inventory Reporting

Tier Two reporting is this country's response to toxic chemical releases in Bhopal, India and Institute, Virginia in the mid-eighties. Thousands of people were killed in Bhopal because of an industrial accident that sent a deadly cloud of toxic gas over the city. In 1986, in order to help facilities and communities in the United States prevent such a catastrophe from happening, Congress passed the Emergency Planning and Community Right-to-Know Act (EPCRA). EPCRA is also known as Title III of the Superfund Amendments and Reauthorization Act (SARA Title III).

Washington Administrative Code Chapter 118-40 was established in 1987. This regulation established Washington's State Emergency Response Commission (SERC), the 48 Local Emergency Planning Committees (LEPCs), and adopted the federal Community Right-to-Know reporting thresholds and requirements. Ecology is a member of SERC and has additional responsibilities under this regulation. Ecology's Community Right-to-Know Unit, on behalf of the SERC, tracks facilities' compliance history and manages the chemical data submitted by businesses in accordance with this regulation. One of SERC's primary goals is to assemble and disseminate information that will help the citizens, government, and industry better prepare for emergency response. Facilities that are required to report their stored chemicals send reports describing their chemical inventories to the SERC, their local fire department, and their LEPC. LEPCs use the information to prepare for possible incidents at or near each reporting facility. Ecology is designated by WAC Chapter 118-40 to receive and manage EPCRA reports for the SERC.

Facilities covered under the federal Community Right-to-Know laws are required by Section 312 of EPCRA to submit a Tier Two report each March 1st. This report is an inventory of the hazardous substances or chemicals stored on-site during the previous year. Businesses are required to report their inventories if quantities of hazardous substances exceed the federal reporting thresholds. Reporting thresholds are 10,000 pounds of a hazardous substance at any one time, and 500 pounds or less of an extremely hazardous substance (EHS) depending on the chemical. The report lists maximum quantities, average quantities, number of days on-site, storage methods and storage locations for hazardous chemicals and extremely hazardous substances (EHS).

Tier Two Reporting Facilities

The data summarized in this report was received in 2002 and represents chemicals on-site during calendar year 2001. Figure 1 below, shows that 2,955 facilities stored hazardous chemicals during 2001. These facilities reported 14,566 chemicals in nearly 25,000 different storage locations at their business sites. More than 3,200 extremely hazardous substances were reported. The number of facilities reporting has shown annual increases through the 1998-reporting year. This trend was due to outreach efforts and increased awareness of reporting requirements. Beginning with the 1998 reporting year, most retail gas stations were no longer required to report due to federal changes in reporting requirements for gasoline and diesel. While many gas stations reported voluntarily for 1998 and 1999, there has been a significant decrease from this sector. Some facilities become inactive when they reduce their inventories of chemicals below reporting thresholds and several new businesses join the reporting community each year.

Figure 1: Number of Tier Two Reporting Facilities

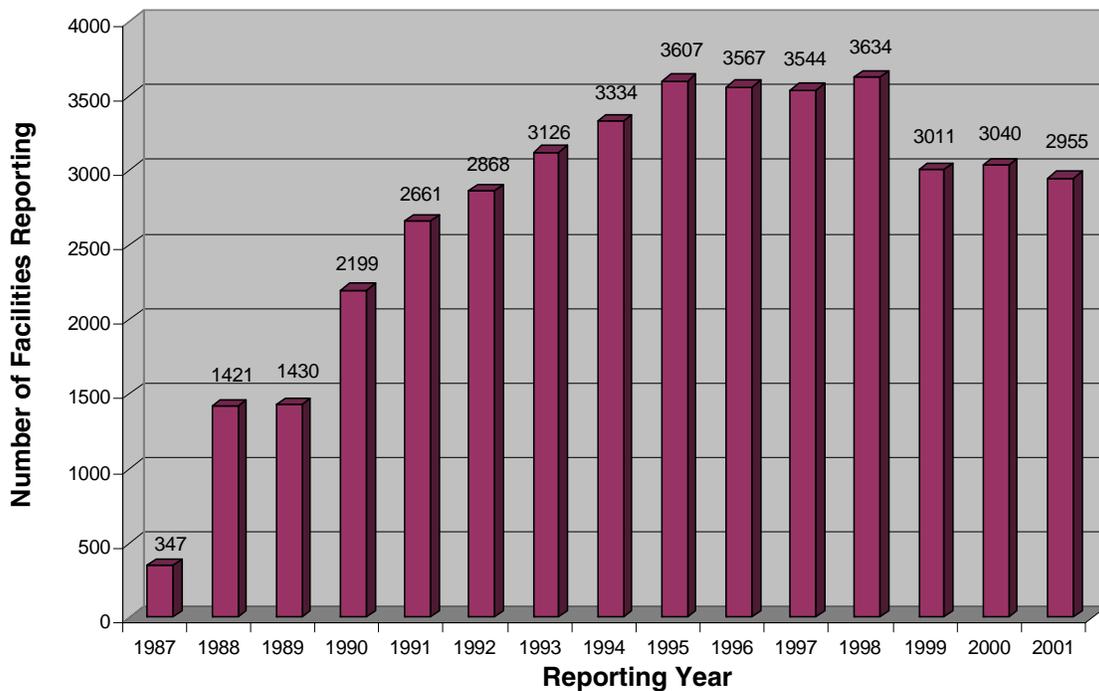
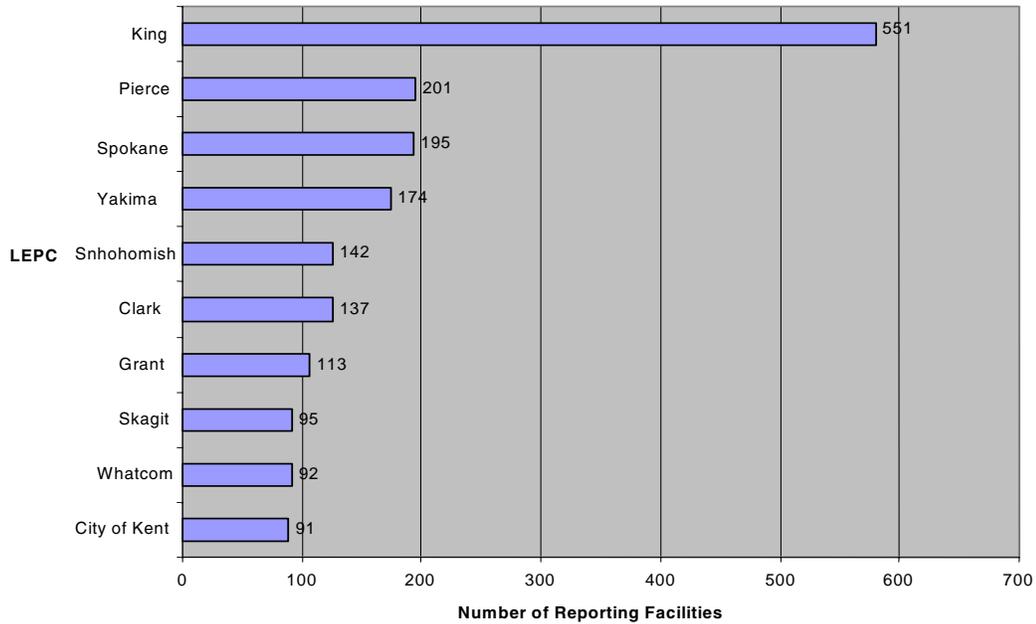


Figure 3: Top Ten LEPCs with Most Reporting Facilities, 2001



Reports by LEPC

There are now 48 LEPCs in Washington State. Thirty-nine of these share the same jurisdictional area as counties, but some cities serve as their own LEPC. Figure 2 displays the total facilities and chemicals by county. Figure 3 above, displays the 10 LEPCs which have the most facilities within their jurisdiction that filed reports for reporting year 2001. Figure 4 below, is similar, but shows the top ten LEPCs in terms of the numbers of total chemicals reported as being stored on-site.

Figure 4: Top Ten LEPCs with Most Chemicals Reported, 2001

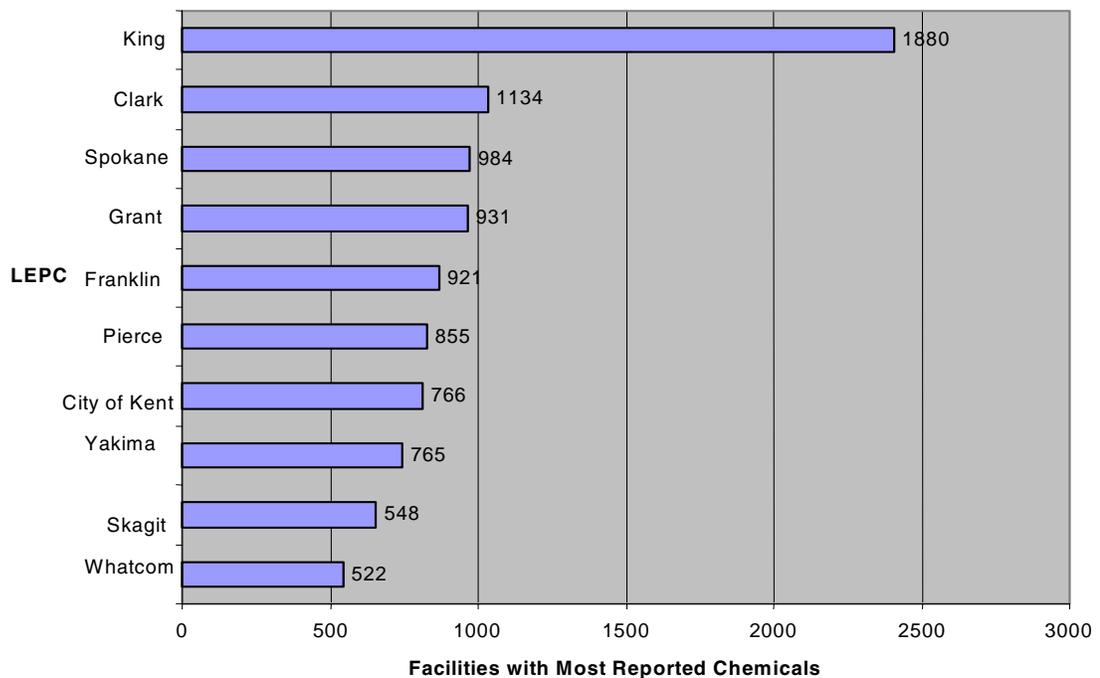
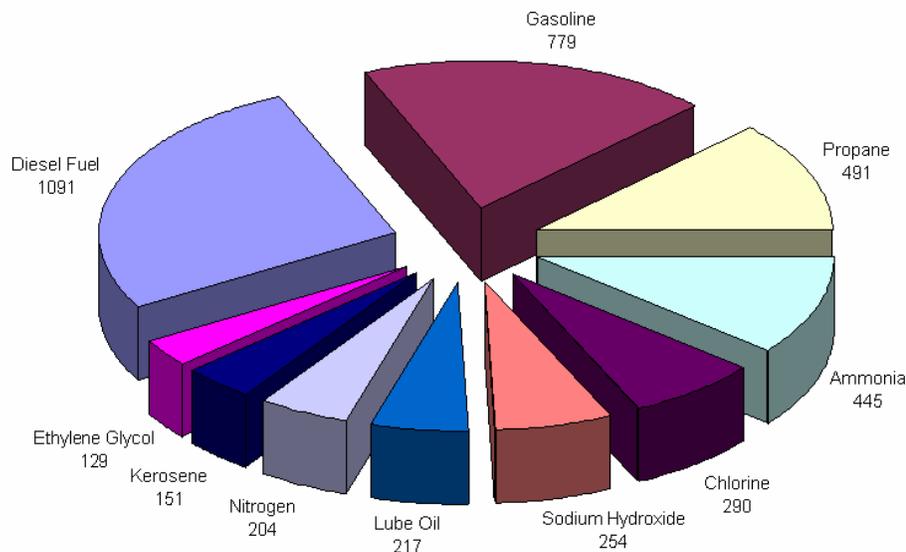


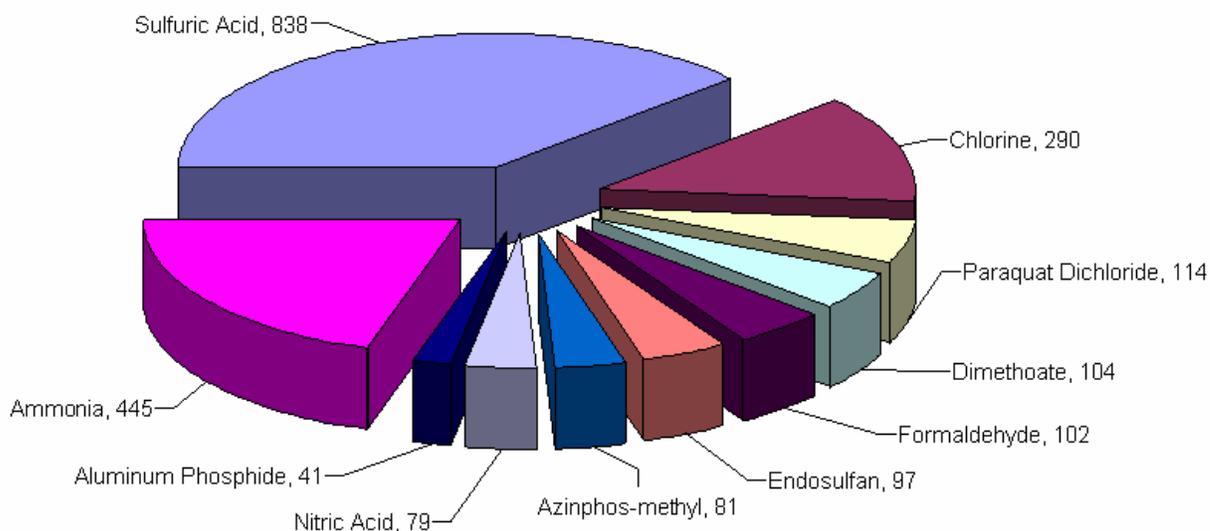
Figure 5: Top Ten Most Frequently Reported Chemicals, 2001



Most Frequently Reported Chemicals

The 10 most frequently reported chemicals are displayed in Figure 5 above. Figure 6 below displays the 10 most frequently reported extremely hazardous substances (EHS). EHSs present a higher risk to the public and the environment, and therefore have much lower reporting thresholds. The value of making information on these chemicals available becomes apparent when one thinks of the risks faced by employees, the public, and emergency responders.

Figure 6: Top Ten Most Frequently Reported EHS Chemicals, 2001



Appendix 2 on page 43, contains a complete listing of the number of reporting facilities and the number of chemicals reported by LEPC. More information on Tier Two reporting requirements can be found at <http://www.ecy.wa.gov/programs/hwtr/epcra>.

The Toxics Release Inventory

The Toxics Release Inventory (TRI) is an annual summary that tracks the amount of toxic chemicals released or transferred by certain types of facilities. Facilities in specific industry categories (Appendix 1, page 39) that meet reporting thresholds for numbers of employees and chemical use must comply with TRI reporting requirements. A separate form is required for each chemical which meets reporting thresholds. A facility may file one form or many forms depending on its chemical use. The five-page Form R chemical report is required for most reports. Facilities that produce less than 500 pounds of “total waste” (see Appendix 1) are permitted to use the abbreviated Certification Form A. Appendix 4 on page 49, lists Form A reporters in Washington State for 2001.

TRI Data Limitations

It is important to remember that a release of a TRI toxic chemical does not indicate a violation of federal, state or local environmental laws. These facilities operate under environmental regulatory permits. TRI information includes data on permitted releases and transfers of certain chemicals. It does not indicate the rate or concentration of chemicals released, nor can it demonstrate the geographic boundaries of the chemical release. Therefore, exposures or risks to the public cannot be determined by using TRI data alone.

Another limitation under the TRI regulations is that facilities may report releases based upon estimates and calculations rather than actual, measured pounds of toxic chemicals. The information collected may reflect only general trends. Facilities may submit voluntary revisions of the report forms for any prior year. Sometimes the standards and methods for estimating releases change. Thus, the TRI data is somewhat variable and can change after this report is published. However, the revisions and changes will result in a more accurate database over time.

In spite of these limitations, the TRI data continues to be useful for addressing potential risks to a community when evaluated together with other information. The TRI information is collected and analyzed according to political boundaries such as states and counties. Of course, natural earth processes cross over such political boundaries. Surface water movement and weather patterns affect the impact that chemical releases have on the soil, water and air. The way the winds blow and waters flow will influence the impact of chemicals on the environment independent of political boundaries.

Still, looking at releases by area and population helps to establish points of reference and gives a starting point to better characterize the impact of these releases. The points of reference cannot, however, be used to directly assess exposure and environmental risk. The question of determining the risk associated with a chemical release is a complex process that falls beyond the scope of this report. Some relative risk-based rankings of TRI chemicals were developed and are available (<http://www.epa.gov/opptintr/rsei/>). However, to determine the risk of a particular chemical in a specific situation requires a process called risk assessment. EPA has tools to help communities deal with local environmental problems including chemical risk assessments. These tools are available by contacting EPA (for example, <http://www.epa.gov/superfund/programs/risk/tooltrad.htm>).

TRI Releases by Environmental Media

As of March 2003, 349 facilities in Washington State reported under TRI reporting requirements for 2001 (Form R, Form A or both). This is an increase of 37 facilities from 2000. Of these, 311 facilities filed one or more five-page Toxic Release Inventory Report Form Rs (see Appendix 6, page 55). Sixty-seven filed one or more two-page TRI Certification Form As (see Appendix 4, page 49, facilities may file both form R's and Form As). Seventy-seven of these 349 reporting facilities had not reported for the previous calendar year. Figure 7 on page 14 shows the location of reporting facilities throughout Washington State.

Figure 7: Washington State TRI Reporters by General Location, 2001

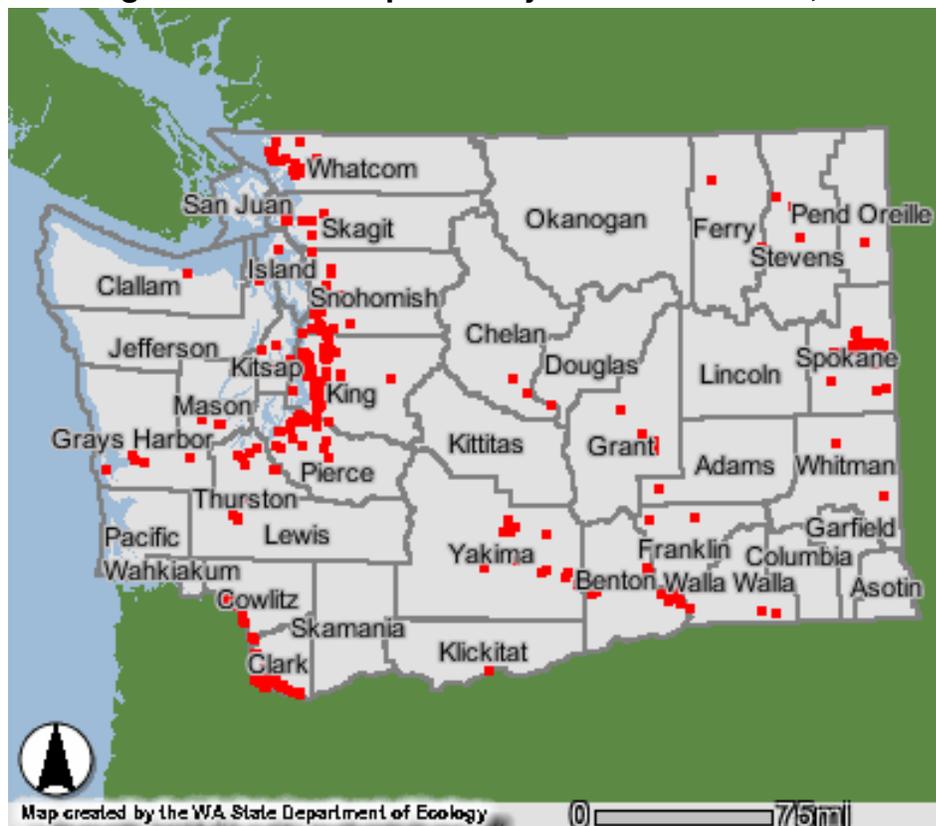
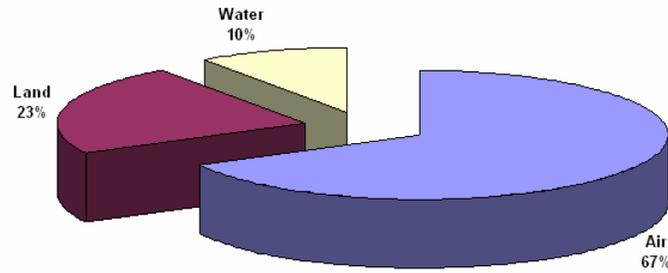


Figure 8: Washington State TRI by Environmental Media - All Industries, 2001



For the 2001 reporting year, the facilities reported a total of 22,321,400 pounds of toxic chemicals released to air, water and land. Air releases comprised 67% of all releases (14,976,101 pounds). Water releases made up 10% (2,155,586 pounds) and land releases accounted for 23% (5,189,711 pounds) of releases. No underground injection releases were reported.

TRI Releases by Industry Category

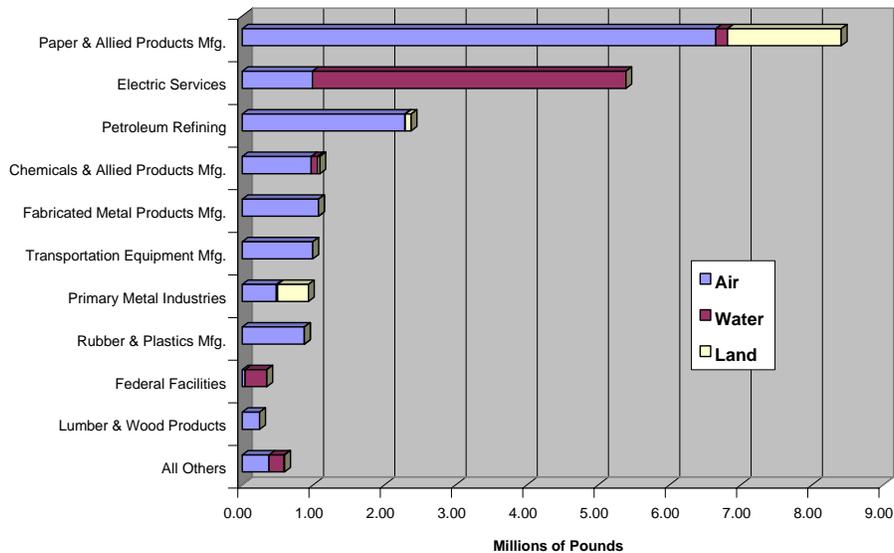
Three of the industry categories required to report under the TRI were responsible for about 73% of the releases in the state (see Figure 9 below). The paper and allied products manufacturing category reported the largest share of releases, 8.4 million pounds. That’s about 38% of the releases reported in the state and a decrease of 1.7 million pounds from 2000.

Electric services was second with 5.1 million pounds reported (23%), an increase of 0.8 million pounds from 2000. This industry includes only electric services facilities that burn coal or oil to produce electricity commercially.

Petroleum refining was ranked third with 2.4 million pounds (11%), about 400,000 pounds more than reported for 2000.

The 10 highest industry categories (Figure 9) reported 97% of the state’s total releases. All other classifications combined reported releases of about 600,000 pounds or 3% of the Washington State total.

Figure 9. Washington State TRI by Industry, 2001



Paper & Allied Products

With over 8.4 million pounds of reported releases, the paper and allied products manufacturing category accounted for nearly 40% of the releases reported in the state. Sixteen different facilities reported in this category in 2001. The amount of releases in this industry category decreased 1.7 million pounds from 2000. This decrease has been attributed to new technology for removing methanol from air stacks and improved measurement of other chemicals.

Major chemicals reported by the paper and allied products industry include methanol, hydrochloric acid, ammonia, and nitrate compounds.

Electric Services-Burning Coal or Oil for Commercial Electricity Generation

The electric services industry reported the second highest amount of TRI chemicals released in 2001, a total of 5.1 million pounds, 800,000 pounds more than in 2000. Nine facilities reported in this industry category. One facility, the Transalta Centralia Generation & Mining, reported releases of 4.9 million pounds, the greatest amount for any reporting facility in the state. These releases are primarily hydrogen fluoride, sulfuric acid and hydrochloric acid releases to air and barium, manganese and vanadium compound releases to land.

Petroleum Refining

The petroleum refining industry reported releases of 2.4 million pounds. This is an increase of about 500,000 pounds from the 1.9 million pounds reported released in 2000. There were 10 facilities reporting in this category. Major chemicals reported by this industry are sulfuric acid and carbonyl sulfide.

Primary Metal Industries

The primary metal manufacturing industry had ranked third in 2000, with 3.6 million pounds. For 2001, this industry ranked seventh with 930,000 pounds (4%). This represents a decrease of 1.7 million. There were 22 facilities reporting in this category. Major chemicals reported by this industry are hydrogen fluoride, carbonyl sulfide and hydrochloric acid.

The primary metal industries, including aluminum manufacturing were affected by changes in the 2001 economy that resulted in manufacturing operations being sharply curtailed or shut down, particularly due to high electricity rates.

Top Reporting Facilities for Total Releases

For the 2001-reporting year, the top 20 reporting facilities for total releases on-site are listed in Table 1 below. Transalta Centralia Generation & Mining was the facility reporting the highest total releases of 4.9 million pounds. The second highest releases were reported by Weyerhaeuser Co., Longview, 2.3 million pounds. The third highest reporting facility for total releases was Tesero Refining and Marketing Company, Anacortes, 1.4 million pounds. Seven of the top 10 ranked facilities are in the paper and allied products manufacturing category. The top 20 reporting facilities for releases represent 18.2 million pounds of the state's 22.3 million pound total or about 80%.

Table 1. Washington State TRI Releases Top 20 Reporting Facilities, 2001 (in pounds)

Facility	City	County	Air	Water	Land	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
Transalta Centralia Generation / Mining	Centralia	Lewis	523,640	4,398,692	655	4,922,987	4,307,673	156,937	228,609
Weyerhaeuser Company	Longview	Cowlitz	2,247,429	0	96,263	2,343,692	2,747,223	106,504	134,095
Tesoro Refining & Marketing Co	Anacortes	Skagit	1,439,176	1,697	1,751	1,442,624	887,534	711	1,662
Fort James Camas LLC	Camas	Clark	1,078,979	44,304	88,517	1,211,801	1,654,692	38,784	8,220
Boise Cascade Paper Division	Walla Walla	Walla Walla	913,841	20,024	101,965	1,035,831	1,486,231	7	7
Kimberly-Clark Corporation	Everett	Snohomish	460,702	32,162	510,178	1,003,043	1,279,229	97,004	73,015
Simpson Tacoma Kraft Co.	Tacoma	Pierce	687,330	0	106,400	793,730	856,449	565	268
Agrium Kennewick Fertilizer Ops	Kennewick	Benton	670,865	87,105	32,200	790,170	860,515	125,090	148,230
Longview Fibre Company	Longview	Cowlitz	503,650	0	167,423	671,073	725,244	155,002	159,002
Port Townsend Paper Corp	Port Townsend	Jefferson	510,571	68,476	36,620	615,667	647,528	0	0
Lasco Bathware, Inc.	Yelm	Thurston	461,440	0	0	461,440	469,400	0	0
Boeing Commercial Airplane Group	Everett	Snohomish	436,416	0	316	436,732	405,827	423,602	923,345
Sandvik Special Metals Corp.	Kennewick	Benton	170	0	431,000	431,170	452,170	0	0
Puget Sound Refinery	Anacortes	Skagit	351,418	416	5,671	357,505	325,712	62,617	84,394
Rexam Beverage Can Company	Kent	King	305,710	0	0	305,710	297,954	2,163	1,578
BP Cherry Point Refinery	Blaine	Whatcom	256,513	3,457	38,093	298,063	437,202	210,326	36,223
Crown Beverage Packaging	Olympia	Thurston	288,000	0	0	288,000	247,000	255	255
Emerald Services, Inc.	Tacoma	Pierce	270,027	0	0	270,027	125,478	2,650,286	1,367,334
Ball Metal Beverage Container Corp.	Kent	King	257,114	0	0	257,114	184,116	169	142
Phillips 66 Co Ferndale Refinery	Ferndale	Whatcom	206,662	1,183	35,290	243,134	236,845	2,801	698

Facilities Showing Changes in Total Releases from 2000 to 2001

A facility may show changes in its reported amounts from year to year for a variety of reasons. In many cases, implementing pollution prevention planning options may result in a decrease in releases. TRI reporters in Washington participate in the state's Pollution Prevention Planning Requirements (<http://www.ecy.wa.gov/biblio/0204034.html>). Changes in measurements of releases at a facility or changes in methods for estimating releases may also result in changes. Economic factors like those affecting the aluminum industry may impact releases. Production rates are also a major factor.

The facility showing the greatest decrease from 2000 to 2001 was Longview Aluminum in Cowlitz County, showing a 490,000 pound decrease (87 percent). The company with the second highest decrease was Intalco Aluminum Corporation in Ferndale, Whatcom County, down 480,000 pounds (84 percent). Many aluminum smelters either shut down completely or severely curtailed production in 2001 due to skyrocketing power prices, low prices for aluminum and an uncertain economy.

Seven other facilities also reported decreases of more than 200,000 pounds: Fort James Camas, LLC, Camas; Boise Cascade Paper Division, Wallula; and Alcoa Corp., Everett; American Millwork Inc., Kirkland; and Fiber-Tech Industries, Spokane. One hundred twenty-six of the state's 311 Form R reporting facilities reported decreases for 2001 as compared to 2000.

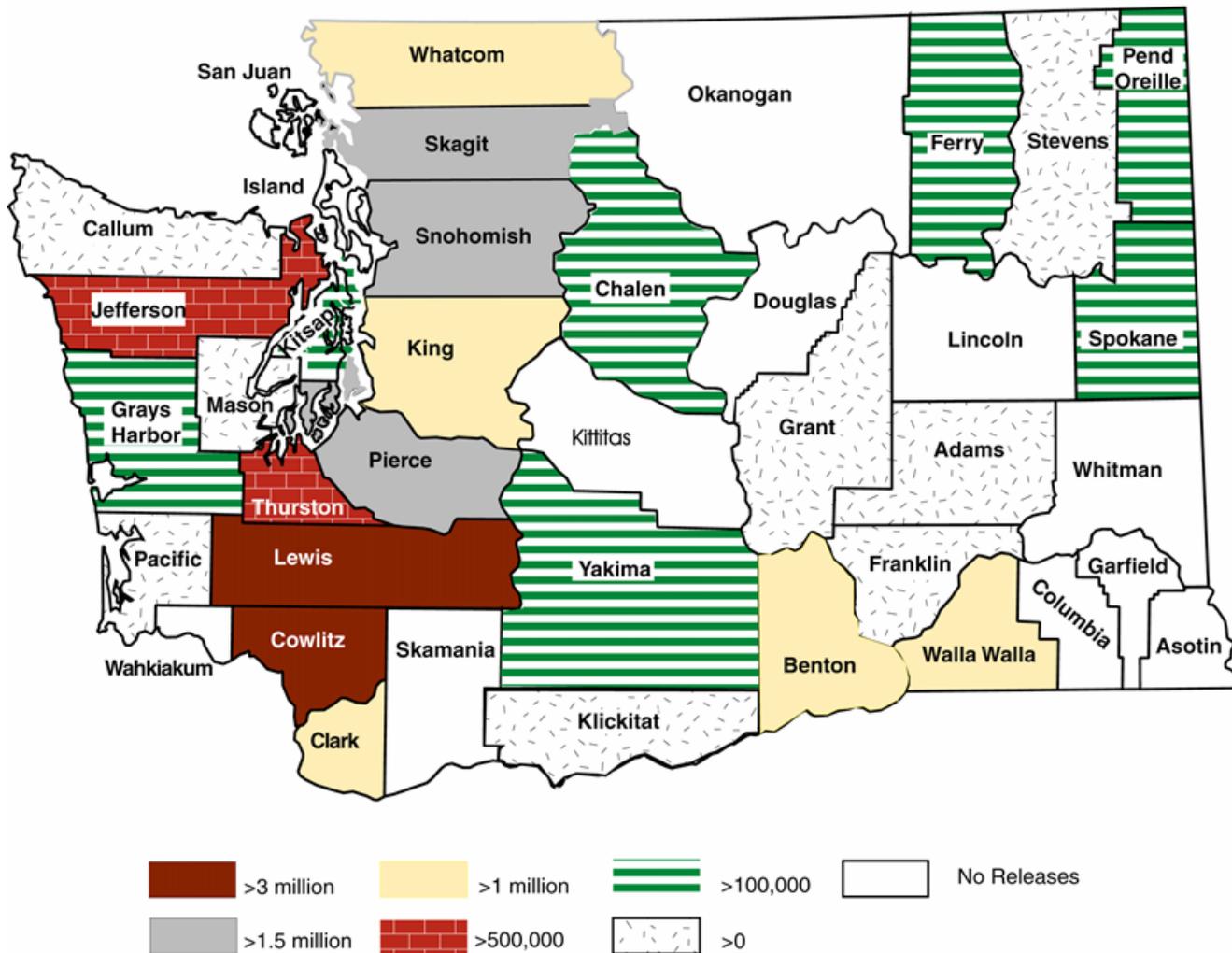
The facility showing the greatest increase in total pounds released from 2000 to 2001 was Tesoro Refining and Marketing Company, Anacortes. They reported an increase of 555,048 pounds (63 percent). The facility reporting the second highest increase in total pounds was Transalta Centralia Generation/Mining (528,000 pounds or 12 percent).

Three other companies also showed an increase in reported releases of more than 40,000 pounds for 2001 compared to 2000: Emerald Services, Inc., Tacoma; Ball Metal Beverage Container Corp., Kent; and Crown Beverage Packaging, Olympia. In all, 59 of the state's 311 reporting facilities show increases in reported releases from 2000 to 2001.

TRI Releases by County

Of Washington's 39 counties, 30 had facilities that reported under TRI (see Appendix 5 and 6). Reporters in Lewis and Cowlitz County acknowledged releases that totaled over three million pounds (see Figure 10, page 19). Three counties (Skagit, Snohomish, and Pierce), had between 1.5 and 2.0 million pounds of reported releases and five other counties (Clark, Benton, King, Walla Walla, and Whatcom) each totaled between 1 and 1.5 million pounds released per county. The releases in these ten counties accounted for 86% of all TRI releases statewide.

Figure 10: Washington State TRI by County, 2001



Lewis County had the largest amount of chemicals released in the state in 2001. The 4.9 million pounds accounted for 22% of the state total. Seven facilities reported in Lewis County. All but 1,000 pounds of the releases were reported by Transalta Centralia Generation/Mining.

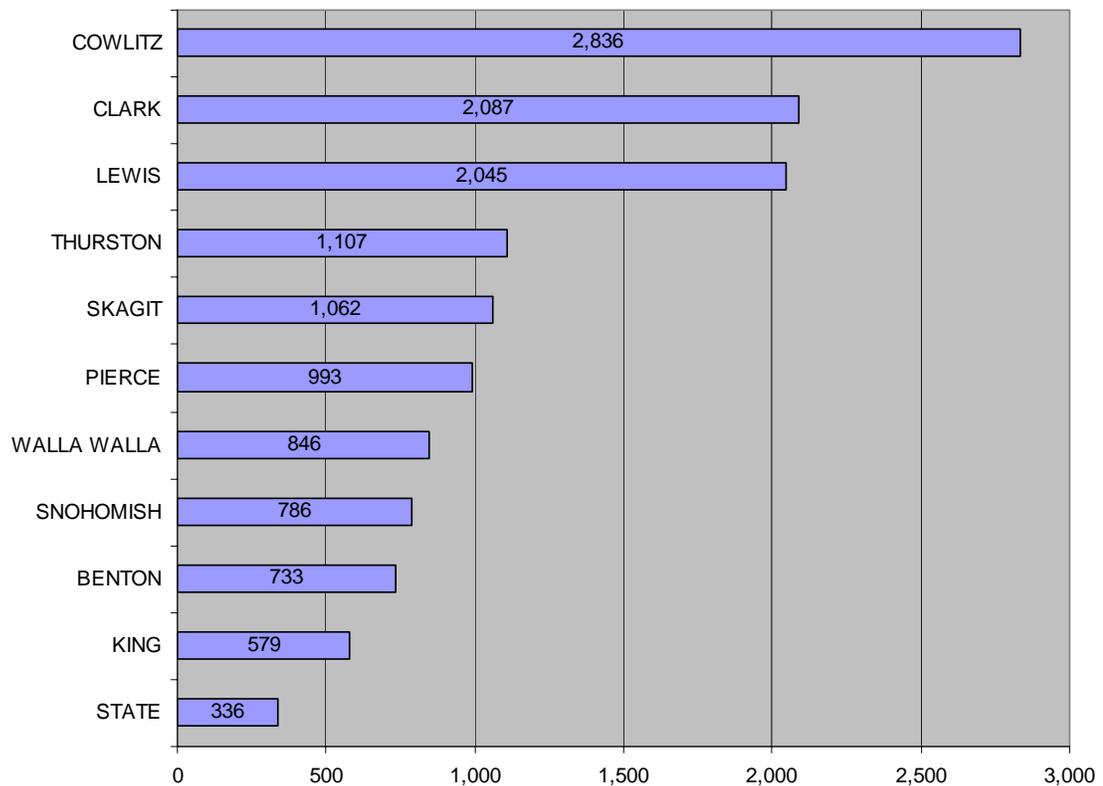
Cowlitz County ranked second with 3.2 million pounds. Eleven facilities reported in Cowlitz County including Weyerhaeuser Company, Longview (2.7 million pounds) and Longview Fibre (671,000 pounds). Skagit, Pierce and Snohomish counties were third, fourth and fifth with just under 2 million pounds reported for each.

Counties Ranked-Pounds per Square Mile

County rankings relating TRI releases per square mile appear in Figure 11 below. A county may rank higher on releases per area, but lower on the overall county rankings because of its relatively smaller size, even though releases were also relatively small.

Cowlitz County ranked first with 2,836 pounds per square mile. Cowlitz County has a relatively small area and ranked second in the counties in total releases. These two factors give it a high number for pounds per area. Clark County ranked second with 2,087 pounds per square mile. Lewis County was third with 2,045 pounds per square mile. Thurston, Skagit and Pierce counties placed fourth, fifth and sixth respectively. Statewide releases averaged 336 pounds per square mile, well below the 404 pounds per square mile in 2000.

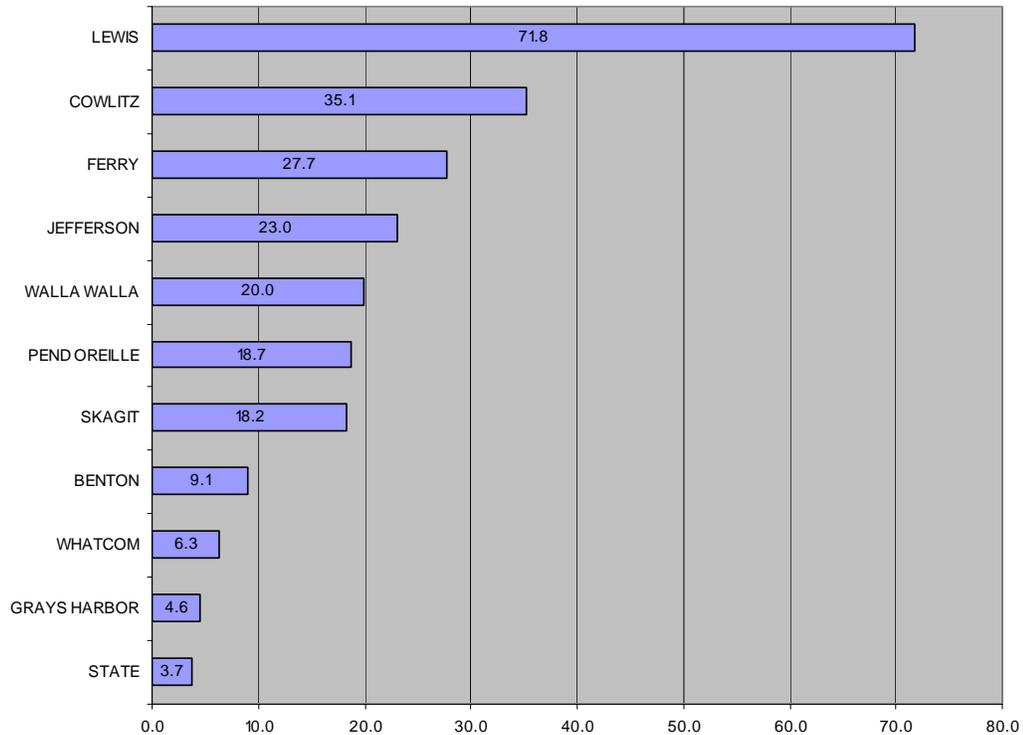
Figure 11: Washington TRI Top Counties, Pounds per Square Mile, 2001



Counties Ranked-Pounds by Population

Lewis County was first for TRI releases ranked by estimated 2001 population in pounds per person - 71.8 pounds per person (see Figure 12, below). Cowlitz County reported 35.1 pounds of chemical releases per person. Ferry County reported 27.7 pounds per person. Jefferson, Walla Walla and Pend Oreille counties ranked fourth through sixth with 23.0, 20.0 and 18.7 pounds per person reported respectively. Statewide, releases averaged 3.7 pounds per person. This does not mean that each person was exposed to these “pounds” of chemicals.

Figure 12: Washington TRI Top Counties, Pounds per Person, 2001



Counties such as Lewis that appear high on this list often release high amounts of chemicals and have average populations or have moderate releases with very small populations like Ferry. Counties, like King and Pierce, because they have very large populations, do not show up in the ranking of top ten counties even though they had high total release amounts.

TRI Releases by Water Body

Releases of TRI chemicals to water in Washington State have ranked high nationally both in total chemicals and releases of known or suspected cancer-causing chemicals. One report ranked the state number one for releases of carcinogens from 1989 to 1996. Water releases in the state were 2.2 million pounds (10 percent) in 2001. This is a decrease of about 1.5 million pounds from 2000. Fort James Camas LLC in Clark County and Georgia Pacific West Inc. in Bellingham both reported that their water releases had decreased by over 400,000 pounds from 2000.

Chemicals classified by the Occupational Health and Safety Administration (OSHA) as known or suspected carcinogens (<http://www.epa.gov/tri/chemical/oshacare.htm>) totaled 46,000 pounds of the water releases, decreasing by 20,000 pounds from 2000.

The Columbia River was the water body with the greatest reported amounts of carcinogen releases (28,540 pounds and also reported as receiving the highest amount of total water releases (919,000 pounds). The water body with the second highest reported releases was Everett Harbor. Figure 13 below shows water releases by water body.

Figure 13: Washington State TRI by Water Body, 2001 (in pounds)

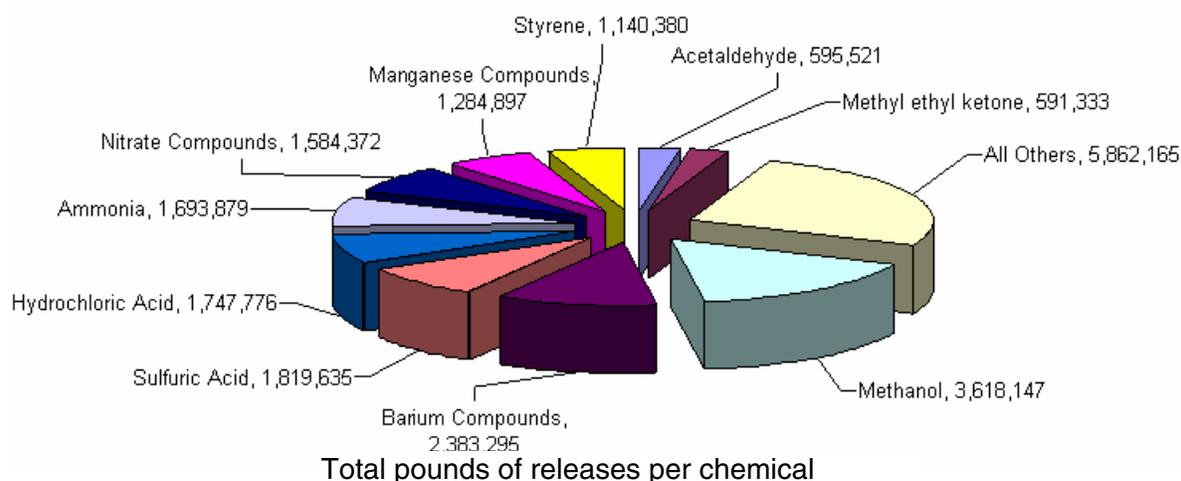
Water Body	Other Chemicals	Carcinogens
Columbia River	890,101	28,540
Everett Harbor	505,514	4,664
Pend Oreille River	182,011	9
Grays Harbor	165,500	882
Bellingham Bay	115,200	1,300
Commencement Bay Of Puget Sound	100,560	5,840
Strait Of Georgia	72,641	742
Port Townsend Bay	35,800	820
Strait Of Juan De Fuca	22,006	460
Fidalgo Bay	7,285	137
All Others	12,840	2,737

TRI Releases by Chemical

One hundred fourteen of the approximately 600 chemicals or chemical categories reported under TRI, were reported by one or more facilities in Washington State (see Appendix 3 and 6).

The top 10 chemicals released cover nearly 70% of all chemical releases reported in the state (Figure 14, page 23). In descending order, the top 4 chemicals reported were methanol, barium compounds, sulfuric acid, and hydrochloric acid. Figure 14 shows Washington State TRI by chemical and total pounds released.

Figure 14: Washington State TRI by Chemical, 2001 (in pounds)



Methanol

Methanol is generated through chemical reactions and occurs naturally in the breakdown of wood fibers. The pulping process releases this chemical from the wood fibers. The primary reporters of methanol operate in the paper and allied products industry category. Methanol is a flammable solvent and was the most reported chemical for 2001.

Methanol releases in 2001 were 3.6 million pounds, 800,000 pounds less than in 2000. Twenty-six facilities reported releases of methanol in 2001. Weyerhaeuser Inc., Longview, reported 1.2 million pounds. Fort James Camas LLC reported 895,000 pounds and two other facilities reported more than 200,000 pounds of releases: Simpson Tacoma Kraft, and Longview Fibre Company.

Barium Compounds

Barium compounds were the second most reported chemical in 2001. A total of 2.4 million pounds was reported released to the environment by the eight facilities reporting this chemical. The 2.4 million pounds is an increase of about 100,000 pounds from 2000. Of this amount, all but 15,000 pounds was reported released to land by Transalta Centralia Generation/Mining as part of their mining process.

Sulfuric Acid and Hydrochloric Acid

Two strong acids, sulfuric acid and hydrochloric acid were the third and fourth most reported chemicals. Many manufacturing operations use these acids. Some plants in the pulp and paper industry emit hydrochloric acid produced during the combustion of wood wastes.

EPA modified the reporting for hydrochloric and sulfuric acids in 1994. Aerosols are the only form of these chemicals that is reportable under TRI. Acid aerosols include mists, vapors, gas and other airborne forms of any particle size.

Twelve facilities reported releases of a total of 1.8 million pounds of sulfuric acid for 2001. All of this was to the air. Three facilities in the petroleum refining industry reported the greatest releases of sulfuric acid: Tesoro Refining and Marketing, Anacortes (901,000 pounds); Puget Sound Refining, Anacortes (230,000 pounds); and Phillips 66 Company, Ferndale (176,000 pounds). One facility in the electric services industry category also reported more than 150,000 pounds released to the air.

Seventeen facilities reported combined releases of 1.7 million pounds of hydrochloric acid for 2001. The paper and allied products industry category accounted for the greatest releases: Boise Cascade Paper Division (577,000 pounds), Kimberly Clark Corporation (399,000 pounds) and Port Townsend Paper Company (287,000).

Carcinogens

Carcinogens are chemicals listed as known or suspected cancer-causing agents by the Occupational Safety and Health Administration (OSHA). Reported releases of carcinogens (noted in Appendix 3 on page 45) were 3.0 million pounds in Washington State in 2001, a reduction from 3.9 million pounds in 2000. Two hundred twenty-seven facilities reported releases of one or more pounds of known or suspected carcinogens. Lead or lead compounds were the chemicals reported by the greatest number of facilities. From these 227 facilities, 511,000 pounds were reported released by Weyerhaeuser Company, Longview (425,000 pounds of acetaldehyde). Lasco Bathware Inc., Yelm, reported releasing 461,000 pounds of styrene to the air.

The top carcinogens, by chemical, reported for 2001 were styrene (1.1 million pounds), acetaldehyde (596,000 pounds), lead compounds (216,000 pounds), and trichloroethylene (172,000 pounds).

Washington TRI Persistent, Bioaccumulative Toxic Chemical (PBT) Reporting

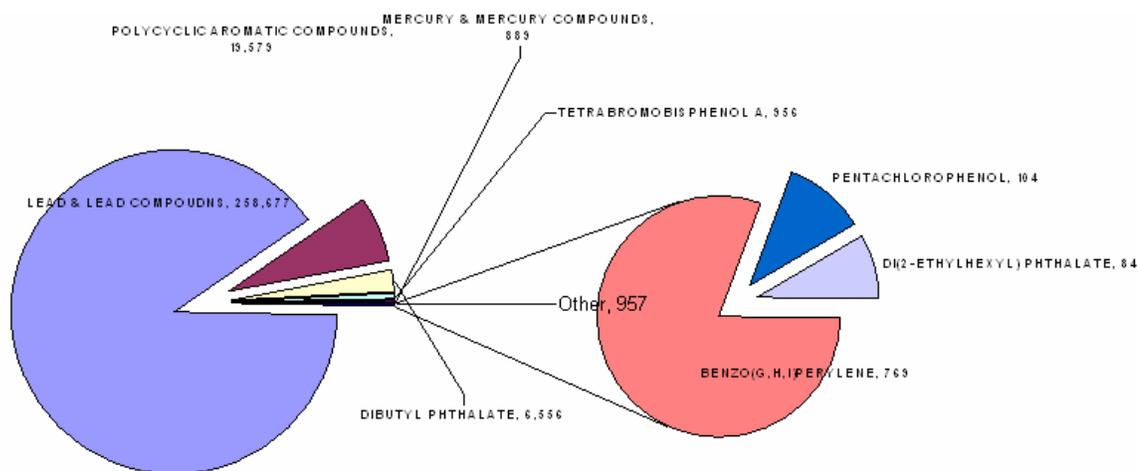
For the 2000 reporting year, EPA changed the reporting thresholds for the chemical dioxins and other persistent, bioaccumulative toxins (PBTs) to its TRI list of chemicals. PBTs are of concern in the environment because:

- They **persist** in the environment for a long time without breaking down;
- They build up in the tissues of humans, fish and animals (“**bioaccumulative**”);
- They have **toxic** effects (cancer and other health problems) on living organisms.

Many of these substances are man-made and have only been in the environment for a short period of human history. Substances like lead and mercury that occur naturally in the environment can create health and environmental problems when they are concentrated and refined. Because these chemicals are often produced or used in very small quantities, only relatively small amounts have shown up in the TRI reportable chemicals over time (52,304 pounds in 1999 and 51,983 pounds in 1998). In order to track these PBT chemicals in the environment, EPA reduced the usage thresholds for reporting these chemicals (Table 4, page 40). As a result of these lowered thresholds for reporting, there has been an increase in the number of facilities reporting these chemicals. Figure 15 shows the most reported PBT chemicals for 2001.

Of these, 91% were in the lead or lead compounds category. Seven percent were in the polycyclic aromatic hydrocarbon category. Two percent were dibutyl phthalate. The dioxin and dioxin-like compounds category was a very small percentage of the PBTs reported.

Figure 15: Washington PBT Releases, 2001 (in pounds)



Lead and Lead Compounds

The 2001 reporting year was the first year for reporting for lead and lead compounds with PBT reporting thresholds. Lead remains in the environment for long periods of time and is toxic to humans, especially children. Until now, facilities were not required to report lead and lead compound releases to air, water, and land unless they manufacture or process more than 25,000 pounds annually or use 10,000 pounds. These high thresholds severely limited the reporting of lead and lead compounds. The reporting threshold was lowered to 100 pounds manufactured, processed or used, except for lead and lead compounds in certain alloys, per facility, per year. This will help track releases of lead in the environment.

Lead or lead compounds were reported by 158 facilities (45 percent) in Washington State for 2001. Sixty-five of these were facilities that were not previously reporting under TRI. For many companies, lead or lead compounds were the only TRI chemicals they reported. The Range Facility at Fort Lewis reported 82,726 pounds of lead released to land. The Yakima Training Center Range reported 14,114 pounds released to land. Transalta Centralia Generation and Mining reported 56,135 pounds released, nearly all to land. Kettle River Operations Mill in Republic reported 43,002 pounds and US Navy Puget Sound Naval Shipyard reported 18,059 pounds. In all, 42,361 pounds of lead were reported and 216,316 pounds of lead compounds. Nearly all of the lead and lead compound releases reported were to land (air: 7,784; and water: 6,932).

Polycyclic Aromatic Compounds

The polycyclic aromatic compounds (PACs) or polycyclic aromatic hydrocarbons (PAHs) are usually found in the soot after organic materials (like plant or animal materials) are burned. It may also be found in creosote. The PACs have a reporting threshold of 100 pounds when they are manufactured, processed or otherwise used.

For example, burning oil fuels can produce or “manufacture” PACs. The polycyclic aromatic compounds are classified as known or suspected carcinogens.

Seven percent of all PBT chemicals reported for 2001 were in this category. Thirty-nine companies reported that a total of 19,578 pounds of PACs were released in 2001 in Washington State. This is a decrease of 75 percent from 81,121 pounds in 2000. This included 18,839 pounds released to the air. The company reporting the highest amount of PACs was the Longview Aluminum LLC.

Under TRI, benzo(g,h,i)perylene is reported separately from the other PAC compounds. This chemical is produced at the same time other PACs are produced as in the burning of fossil fuels. It has a reporting threshold of 10 pounds, manufactured, processed or otherwise used. Twenty-seven companies reported releases of benzo(g,h,i)perylene (total 769 pounds). This is a significant decrease of 84 percent from 4,712 pounds in 2000. The Longview Aluminum LLC reported releases of 330 pounds.

Mercury and Mercury Compounds

Mercury is used in batteries, switches, and thermometers. It is also used in dental fillings and in pharmaceuticals. Mercury compounds are found in some fossil fuels. For example, coal contains naturally occurring mercury, but when burned, it releases mercury compounds into the atmosphere. Organic forms of mercury have been linked to neurological disorders in infants exposed in prenatal development. Other neurological effects have been observed in children and adults. At high levels of exposure, disorders of the nervous system such as tremors and changes in vision and hearing have been observed. Exposure to mercury vapors can result in other systemic health effects. The Department of Ecology has targeted mercury as the first PBT chemical for focused attention and has developed an action plan to reduce mercury in the environment. For more information visit Ecology’s website at <http://www.ecy.wa.gov/programs/eap/pbt/pbtfaq.html>.

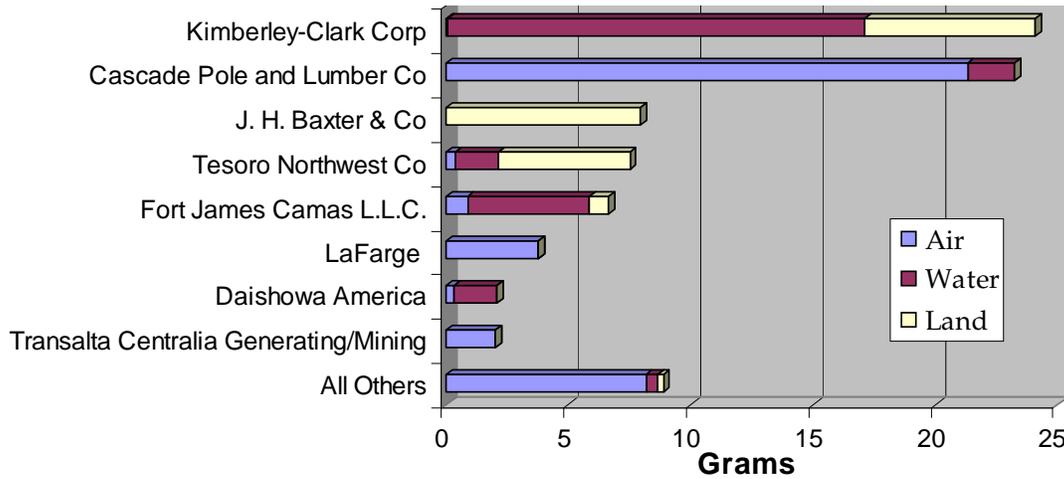
For the reporting year 2001, twenty-four companies reported mercury or mercury compounds releases of 889 pounds (less than 1 percent of the PBT total). This included 411 pounds reported by Transalta Centralia Generation/Mining, of which 266 was released to air during the burning of coal. Total mercury and mercury compound releases decreased from 2,368 pounds in 2000 to 889 pounds in 2001.

Dioxin and Dioxin-like Compounds

Dioxin has no commercial use. It is found in the environment, in the products and emissions of chemical plants manufacturing chlorinated phenols and in the ash and emission of municipal waste incinerators. Other sources of dioxin are pulp and paper manufacturing, especially chlorine bleaching plants, and burning of organic compounds. Dioxin is categorized as a known human carcinogen. Dioxin may also cause other developmental disorders. There are 17 dioxin and dioxin-like compounds in this category. These differ in toxicity. Reporting facilities may report the distribution of the 17 compounds by percentage. Using those percentages, one can calculate the “toxicity equivalency” relative to the most toxic compound, 2,3,7,8-tetra chlorodibenzo-p-dioxin (TCDD). When determining the toxicity of any particular dioxin-like compounds category report, the actual toxicity may be overestimated if the entire amount is treated as TCDD.

The threshold for reporting dioxin and dioxin-like compounds is 0.1 grams manufactured, processed or otherwise used. This is the only TRI chemical that is reported in grams. The companies reporting for dioxin and dioxin-like compounds are listed in Appendix 5 on page 53. A total of 86 grams (compared to 106 grams in 2000) were reported (37 to air, 28 to water and 21 to land). Figure 16 below, shows the top facilities reporting dioxin for 2001.

Figure 16. TRI Dioxin Releases, 2001 (in grams)



TRI Off-site Transfers, 2001

Transfers reported under TRI include chemicals transferred to publicly owned treatment works (POTWs), also known as “sewers”, and chemicals transferred to a facility located geographically or physically separate from the reporting facility. These transfers may be for treatment, energy recovery, recycling or disposal (Figure 17, below). Many of these transfers are also reportable as hazardous waste. Transfers are not included in on-site release totals. Total transfers for 2001 were 20.9 million pounds. This includes 17.0 million pounds from manufacturers (20.0 million pounds in 2000) and 3.9 million pounds from new industries (2.3 million pounds in 2000). Table 2 on page 28 shows the top twenty facilities reporting off-site transfers for 2001.

Figure 17. Washington State TRI Transfers by Type, 2001

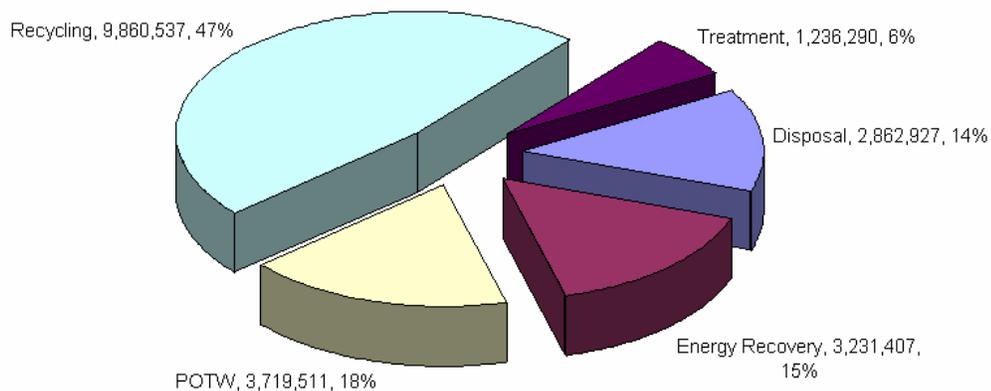


Table 2: Washington State TRI Transfers Top 20 Reporting Facilities, 2001 (in pounds)

Facility	City	County	POTW	Disposal	Energy Recovery	Recycling	Treatment	Total
Birmingham Steel Corp. Steel Div	Seattle	King				5,081,866		5,081,866
Emerald Services, Inc.	Tacoma	Pierce		3,073	2,647,213			2,650,286
Framatome ANP Inc.	Richland	Benton	1,113,713	13,655				1,127,368
SEH-America Inc.	Vancouver	Clark	1,011,000				1,220	1,012,220
BCAG	Auburn	King	290,232	70,671	45,586	449,095	42,244	897,828
BCAG - Frederickson	Puyallup	Pierce	13	35,935	800	399,854	330,026	766,628
Darigold-Sunnyside	Sunnyside	Yakima	685,541					685,541
Burlington Environmental Inc.	Seattle	King	0	81,373		560,133	1,000	642,506
Jorgensen Forge Corp.	Tukwila	King		509,805	1,307			511,112
Boeing Commercial Airplane Group	Everett	Snohomish	47,957	46,166	115,302	136,911	77,266	423,602
Toray Composites (America)	Tacoma	Pierce			130,400	256,100		386,500
U.S. DOD, U.S. Navy, Puget Sound Naval Shipyard	Bremerton	Kitsap	60,649	317,713	72			378,434
Longview Aluminum LLC	Longview	Cowlitz		367,120		165	272	367,557
Ace Galvanizing Inc.	Seattle	King		174	340,618			340,792
TTM Technologies Inc.	Redmond	King	20,414			280,133		300,547
Rudd Company, Inc.	Seattle	King				21,170	248,185	269,355
Hallmark Refining Corp.	Mount Vernon	Skagit				216,306		216,306
Nelson Irrigation Corp.	Walla Walla	Walla Walla		330	215,845			216,175
BP Cherry Point Refinery	Blaine	Whatcom		20,065		190,246	14	210,326
Kaiser Aluminum & Chemical Corp - Trentwood Works	Spokane	Spokane	0	1,665	85,200	118,801	203	205,869

Transfers to Publicly Owned Treatment Works (POTWs)

In 2001, transfers to publicly owned treatment works (POTWs) were 3.7 million pounds, compared to 4.2 million pounds reported in 2000. Nitrate compounds continue to be the most reported chemical transferred to POTWs. Framatone ANP Richland, Inc. in Richland reported 1.1 million pounds of nitrate compounds transferred to the POTW, an increase of 400,000 pounds from 2000. SEH America in Vancouver reported POTW transfers of 1.0 million pounds of nitrate compounds, 250,000 million pounds less than they reported in 2000. Three other companies reported POTW transfers of over 100,000 pounds of nitrate compounds: Darigold, Inc. in Sunnyside (650,000 pounds); Boeing Commercial Airplane Group in Auburn (290,000 pounds); and Advanced Silicon Materials LLC (167,000 pounds). These five individual chemical reports account for 87% of POTW transfers.

Chemicals sent to a sanitary sewer or POTW may be treated by a variety of methods and those chemicals not removed are typically discharged into surface waters. POTWs typically treat incoming chemicals with bacteria. Biological processes may or may not change the chemicals into less toxic compounds before they eventually enter surface water. It is difficult to determine how much of a chemical in the surface water is from a reporting facility. Effluent limits from POTWs are monitored and regulated by permits issued by Ecology. In turn, industrial discharges into sewers are regulated and permitted by the local POTW.

Transfers to Other Off-site Locations

Chemicals reported as transferred to other locations for treatment, storage, disposal, recycling or energy recovery totaled 17.2 million pounds in 2001 for all reporting facilities. This represents a decrease of 2.8 million pounds from 2000. Facilities reporting the highest amount being transferred off-site were: Birmingham Steel Corp in Seattle, 5.1 million pounds to off-site recycling; Emerald Services in Tacoma, 2.6 million pounds to off-site energy recovery; and Boeing Commercial Airplane Group, Fredrickson recycling 400,000 pounds off-site and sending 330,000 pounds for off-site treatment.

Pollution Prevention Act Reporting

Table 3: Pollution Prevention Act Reporting, 2001 (in pounds)

	2000	2001	2002 (projected)	2003 (projected)
Releases	27,904,738	25,273,756	24,630,282	27,890,934
On-site Energy Recovery	14,285,649	11,916,690	10,970,646	10,233,646
Off-site Energy Recovery	1,904,650	3,231,494	3,388,247	3,628,883
On-site Recycling	26,435,503	12,665,625	10,719,588	10,789,624
Off-site Recycling	11,312,052	9,957,045	8,971,930	8,960,826
On-site Treatment	67,005,982	64,479,412	64,399,249	65,690,007
Off-site Treatment	4,807,359	4,486,515	4,118,944	4,051,128
Total Waste	153,657,932	132,012,537	127,198,885	131,245,046
One-time Releases		363,466		

The Pollution Prevention Act of 1990 requires facilities to report all waste processed or disposed. These data elements include the amount of chemicals reported under TRI as generated as waste or recycled and used for energy recovery, or treated both on and off the facility premises (see Table 3, page 29). Facilities must report for the current and prior year and provide projected totals for the next two years. Estimates for 2002 and 2003 indicate that the total waste processed or disposed by those facilities required to report will decrease in 2002 and increase in 2003 because of estimated on-site releases or off-site disposal. Total waste was estimated to have decreased by 21 million pounds from 2001 to 2002. The greatest decrease was in the on-site recycling category which decreased from 26.4 million pounds to 12.6 million pounds. Other categories showing decreases from 2000 to 2001 were releases, on-site energy recovery, off-site recycling and on-site treatment. More information on Pollution Prevention Act reporting can be found at <http://www.epa.gov/tri>.

Trends in TRI Releases and Transfers

Changes in TRI reporting requirements over time make year-to-year comparisons of TRI data difficult. Even when using normalized values, a single chemical at one facility can greatly impact the results. To be entirely accurate, perhaps we should only look at those chemicals that have been reported by particular facilities for all years. There are some facilities that have modified their chemical use so much that they no longer report. Excluding them from comparative totals would not give credit for reductions in those cases. Comparisons are most accurate when addressing a particular chemical over time. At that level, the original reports will show what has happened at a particular facility. However, the general trends in releases and transfers adjusted for changes in reporting can provide us with valuable information on changes in releases and transfers overall.

TRI releases to all environmental media decreased in 2001 by 5.4 million pounds (about 20 percent) when compared to 2000. Most of this decrease is accounted for by changes in the primary metals industries and paper and allied products manufacturing industries.

Figure 18 on page 31 shows the trends in TRI releases where all chemicals reported are included. The general trend over time has been for releases to decline. Releases in the manufacturing sector are at the lowest level since reporting began in 1987. Since 1990, releases of all chemicals by manufacturing facilities (not adjusted for reporting changes) have decreased by 14.1 million pounds, or 46% and by 8.9 million pounds, or 36% since 1998. Comparing only those chemicals that have had constant reporting requirements, releases have decreased from 23.1 pounds in 1998 to 15.1 million pounds, a decrease of 33%.

Reported releases in the industry sectors that first reported under TRI in 1998 have increased by about 450,000 pounds from 5.2 million pounds in 1998 to 5.7 million pounds in 2001. Most of the increase was reported by the Transalta Centralia Generation/Mining.

Figure 18: Washington State TRI Releases, 2001

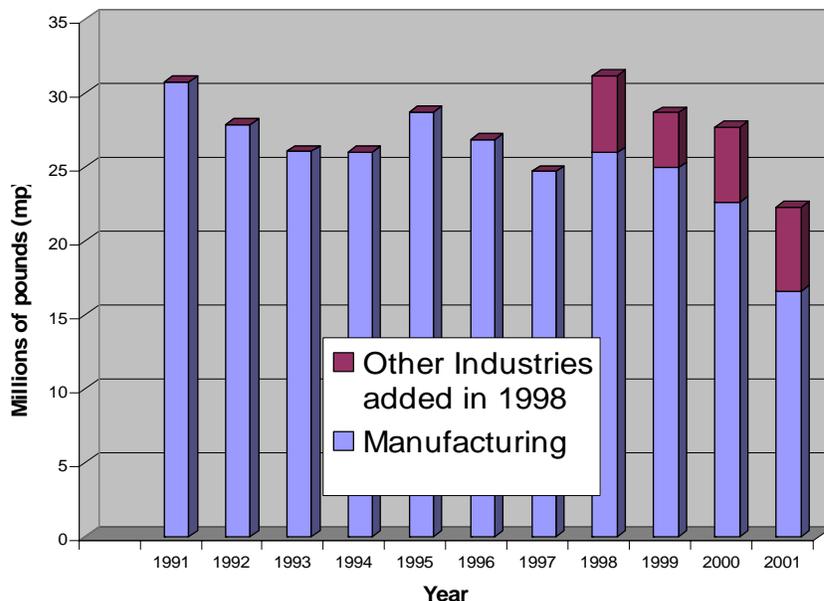
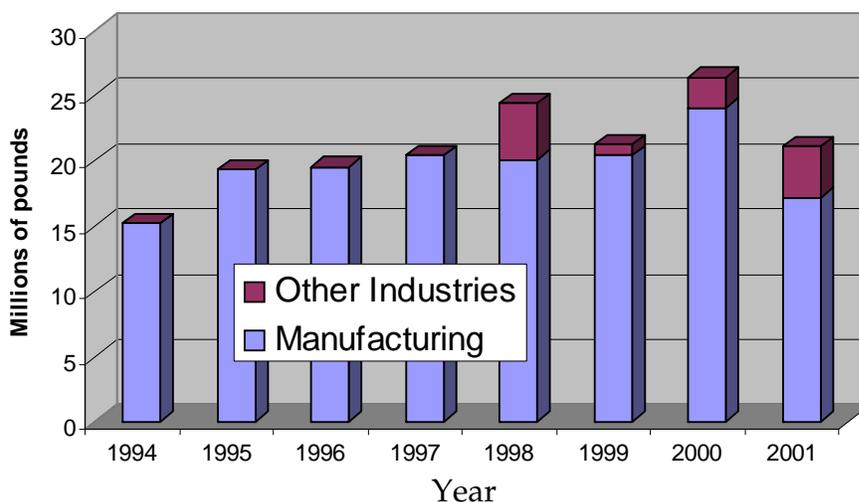


Figure 19 below, shows changes in reporting off-site transfers since 1994. The Pollution Prevention Act of 1990 significantly expanded reporting for off-site transfers for recycling, energy recovery and treatment. Changes in sulfuric acid reporting beginning with the 1994 reporting year resulted in a 60 million-pound reduction in the state’s off-site transfers between 1993 and 1994. The addition of reporting of nitrate compounds has resulted in an increase in reported transfers particularly to POTWs. The addition of the new industries in 1998 resulted in an increase in reported off-site transfers. The 2001 totals show that off-site transfers are at their lowest level since 1997, and are down 25% from 2000 (21.2 million pounds from 26.4 million pounds in 2000).

Figure 19: Washington State TRI Transfers, 2001



Uses of Chemical Data

Until EPCRA became law (in the mid 1980's), most national and local environmental laws looked at only one element of the environment at a time. Single-media reporting laws, like the Clean Air Act and the Clean Water Act, do not account for the shifting of a waste "stream" between media. The comparison between them has been difficult because of conflicting reporting rules, measurement methods, chemical lists, reporting periods, and inconsistent industry exemptions and/or requirements. For these same reasons, it has been hard to build a comprehensive picture of the cumulative releases from a single facility, let alone multiple facilities in a local area.

Tier Two Data

Tier Two data is of particular value because it reflects chemical storage by facilities in the state of Washington. This information is critical to the SERC, LEPCs and local fire stations. The SERC assembles this information to help the citizens, government, and industry work toward a safer, cleaner state. LEPCs and local fire stations use the information sent by each facility to prepare for a possible incident or natural disaster in the community. It is also an indication of a facility's chemical use, but only in a very limited way.

TRI Data

TRI data is of particular value because it reflects toxic chemical releases to all the media around a facility — air, water, land, sewer, transfers off-site, etc. Toxic chemicals are generated from many sources, including manufacturing and non-manufacturing processes, agricultural chemical use, use and disposal of consumer products, transportation, indoor and outdoor burning, and other sources. It is important to note that not all of these sources are tracked by TRI. Non-tracked businesses and organizations, as well as individual and personal use, may also release substantial amounts of toxic chemicals to the environment.

Air quality is recognized as a significant indicator of environmental health. While about 70% of TRI releases are to the air, industrial sources, including TRI, contributed only 14% of all of the state's air pollutants. Other major sources of air pollution include motor vehicles, outdoor burning, and wood-stoves and fireplaces.

With TRI, it is easier for a given facility's host community (and others) to see the 'total' amounts of these toxic releases into one area /community. Communities who utilize TRI data are now in a better position to build a more complete picture of the cumulative releases around them. TRI data also provoke many questions with the public.

Some of the most common questions include:

- Are the releases harmful to the community (human and/or environmental)?
- Who keeps track of all these releases in relation to human and environmental health?
- Are these releases acceptable to the host community?
- If these releases continue, will they harm the community's long-term health and sustainability, including economic viability?
- Who bears the brunt of these releases?
- What are the cumulative effects of chemical releases?

Beyond Waste Project

The Beyond Waste Project was created on behalf of the Department of Ecology's Hazardous Waste and Toxics Reduction Program and the Solid Waste and Financial Assistance Program. The project goal is to develop strategic plans for properly handling both hazardous and solid waste. Moving "beyond waste" is a transition to a society that views waste as an inefficient use of resources and believes that waste can be eliminated. Moving beyond waste will take many years. The Beyond Waste Project is a first step.

If we set our goal to move "beyond waste," how will we know if we are moving toward our goal? This requires environmental indicators or measurements. The TRI has been used as an environmental indicator for many years and provides a trend line. TRI is also a value indicator because it provides data that is cross media. The program will develop other indicators throughout the Beyond Waste Project, but will continue to use TRI as an important indicator.

More information about the Beyond Waste Project can be found at <http://www.ecy.wa.gov/beyondwaste>.

Environmental Justice

Research shows that in general, low-income populations and communities of color are exposed to greater concentrations and quantities of toxic chemicals via pollution. This is commonly recognized as environmental in-justice, in-equity, or racism. One reason (of many) for this disproportionate impact is the close proximity of low-income residents to polluting facilities and contaminated sites.

In particular, Ecology and the State Department of Health, under the Legislature's direction conducted a 1995 "Study on Environmental Equity in Washington State."

This study can be read or downloaded via the Internet at:

<http://www.ecy.wa.gov/biblio/95413.html>. Toxic Release Inventory data was crucial in the development of this study.

A similar report was more recently published by the Washington State Board of Health, looking at the relationship of access to health care for communities of color and/or low income. It can be accessed via the State Board of Health and/or via their website: <http://www.doh.wa.gov/sboh/priorities/ejustice/default.htm>.

Some - but certainly not all - of the state's polluting facilities are represented in this report because they handle (and often release) significant quantities of toxic wastes, and thus report under the "Toxics Release Inventory." Although the TRI focuses on "industrial" facilities, there are many other types of facilities that contribute to urban and rural pollution that are not reflected in this report. Smaller and non-industrial businesses are one broad category of potential polluters that are not reflected in the TRI. And, let's not forget — like most polluting facilities, our cars, some of our purchases, and some of our home-based activities are also responsible for local pollution. These personal types of pollution may be less regulated, but it too can contribute to combined adverse impacts on the local environment and public health.

The greater combined, or 'cumulative' impact of local pollution – regardless of the source, is of understandable and particular concern to those who live (or work) closest to the pollution. Often, it is residents with lower incomes and/or those who live in communities of color that are most exposed to local pollution. They are also less likely to have the resources to move away from or aggressively address these pollutants. Many don't want to move away — they value their communities and would prefer to stay. They would like to work with local facilities and other resources to reduce the pollution and associated risks. They are interested in increased local public awareness and health and they look to a more sustainable local environment, where they can live their lives without increased fear and/or actual long-term health risks from local pollution. Cumulative impacts are also of concern to Ecology and state and local public health agencies. Efforts to better coordinate between pollution and the public health-risk issues amongst a number of state and local interests and agencies are increasing in the name of environmental justice.

Ecology recognizes that environmental justice/equity is an important goal. In 1994, the agency defined environmental equity as "... the proportionate and equitable distribution of environmental benefits and risks among diverse economic and cultural communities. It ensures that policies, activities, and the responses of government entities do not differentially impact diverse social and economic groups. Environmental equity promotes a safe and healthy environment for all people." What does this mean?

The Department of Ecology is actively working to:

- 1) Ensure our work and services are fairly allocated across the state;
- 2) Better engage local communities to participate in public involvement opportunities that relate to environmental management. The "Community Right-to-Know" effort (including this report) is one of many ways to support this. It's about bringing the broader community (businesses, residents, schools, community organizations, local health and zoning officials, and more) closer together with common and timely information about the community's local environment, including pollution;

- 3) Coordinate with EPA, state and local public health officials, and other environmental-based public agencies on environmental justice efforts, to develop, share, and consolidate resources. More information about EPA's environmental justice activities, work and resources can be seen via the Internet at <http://www.epa.gov/swerosps/ej/> and at <http://www.epa.gov/compliance/environmentaljustice/index.html>. Another key resource for EPA and state environmental agencies like the Department of Ecology is the National Environmental Justice Advisory Council at: <http://www.epa.gov/compliance/environmentaljustice/nejac/index/html>.
- 4) Translate more documents (into Spanish, Korean, Vietnamese, Chinese and most recently, Russian –other languages are possible) where appropriate to increase effective communication with locally impacted communities that include significant populations with limited English proficiency;
- 5) Award grants for cleanup, permits, public involvement, and environmental management projects, etc. equitably. Ecology makes an effort to ensure that communities in need are aware of these resources and are encouraged and assisted to apply.

For more information about the Department's work regarding environmental justice, and its relationship to Community Right-to-Know and the Toxic Release Inventory, please contact the Hazardous Waste and Toxics Reduction Program, at (360) 407-6700.

New and Pending EPCRA Developments

Standard Industrial Classification (SIC) System Conversion to North American Industry Classification System (NAICS)

On April 9, 1997, the federal Office of Management and Budget (OMB) published a Federal Register Notice of final decision to adopt the North American Industry Classification System (NAICS) for the United States. NAICS is a new industry classification system that will replace the Standard Industrial Classification (SIC) System. The SIC System has traditionally been used by government agencies for collecting statistical data and for other administrative and regulatory purposes. Under TRI, facilities that are classified in specified SIC codes are subject to Toxics Release Inventory (TRI) reporting. EPA is proposing to include in the regulations the NAICS codes that correspond to the SIC codes that are currently subject to the TRI reporting requirements. For the first year after the rule is adopted, facilities subject to TRI reporting requirements report both SIC and NAICS codes. In following years, facilities that are subject to TRI reporting requirements would be required to report their NAICS codes only.

EPA is soliciting comments on these proposals and on a list of NAICS codes that will correspond to the SIC codes that are currently subject to TRI reporting requirements.

Appendix 1

Reporting Requirements and Glossary of Terms

Releases to Air

Releases to air are reported as either non-point or “fugitive” or point or “stack” emissions. Fugitive emissions are releases that are not conveyed through stacks, vents, pipes or any other confined air stream. Examples include leakage from valves, pump seals, flanges, compressors, open-ended lines, evaporative losses from surface impoundments and production lines, and releases from building ventilation systems. Stack or point air emissions are releases to air which are conveyed through stacks, vents, ducts, pipes or other confined air streams, and include storage tank emissions and air releases from control equipment.

Releases to Land

Releases to land occur on or near the boundary of the reporting facility. Releases to land include disposal of wastes in a landfill, in which the waste is buried, land treatment /application farming in which a waste is applied onto or incorporated into soil, and surface impoundment which is an uncovered holding area used to volatilize and/or settle waste materials.

Releases to Water

Releases to water include releases to streams, lakes, or other bodies of water.

Standard Industrial Classifications

The SIC code numbers and names listed below are the general industrial categories, a 2-digit number representing the general categories of manufactured products. Each facility will have one or more 4-digit number(s) that specifically describes its manufacturing process.

Standard Industrial Classification Codes

SIC Code	Name	SIC Code	Name
10	Metal & Coal Mining	33	Primary Metal Products
12	Metal & Coal Mining	34	Fabricated Metal Products
20	Food & Kindred Products	35	Industrial, Commercial Machinery & Computers
21	Tobacco Manufacturers	36	Electronic Equipment & Components
22	Textile Mill Products	37	Transportation Equipment
23	Apparel & Other Textiles	38	Instruments & Related Products
24	Lumber & Wood Products	39	Misc. Manufacturing Industries
25	Furniture & Fixtures	4911	Electric Generating Plants **
26	Paper & Allied Products	4931	Electric Generating Plants **
27	Printing & Publishing	4939	Electric Generating Plants **
28	Chemicals & Allied Products	4953	Hazardous Waste & Treatment Firms
29	Petroleum Refining	5169	Chemical Wholesale Distributors
30	Rubber & Misc. Plastic Products	5169	Wholesale Bulk Petroleum Distributors
31	Leather & Leather Products	7389	Solvent Recyclers
32	Stone, Clay & Glass Products	**	Combusting coal or oil

Transfers to Public Owned Waste Water Treatment Works (POTW)

A POTW is a waste water treatment facility that is owned by a state or local municipality. Waste waters reported as transported to POTWs are transferred through pipes or sewers. The chemicals contained in the waste water are treated at the POTW through a variety of methods. In general, chemicals are likely to be removed to some extent. Those chemicals not removed by treatment are released by the POTW to surface waters.

Thresholds

These are amounts of chemicals that trigger reporting requirements. If a facility annually manufactures or processes any listed toxic chemical, the threshold quantity is 25,000 pounds. If a facility “otherwise uses” any listed chemical, in any way other than incorporating it into a product, the threshold quantity is 10,000 pounds. PBT chemicals have a lower threshold for reporting.

Table 4: PBT Chemicals

Chemical Name or Category	Reporting Threshold (2001 reporting year)
Aldrin	100 lbs.
Benzo(g,h,l)perylene	10 lbs.
Chlordane	10 lbs.
Dioxin and dioxin-like compounds	0.1 grams
Heptachlor	10 lbs.
Hexachlorobenzene	10 lbs.
Isodrin	10 lbs.
Methoxychlor	100 lbs.
Octachlorostyrene	10 lbs.
Pendimethalin	100 lbs.
Pentachlorobenzene	10 lbs.
Polycyclic aromatic compounds category	100 lbs.
Polychlorinated biphenyl (PCBs)	10 lbs.
Tetrabromobisphenol A	100 lbs.
Toxaphene	10 lbs.
Trifluralin	100 lbs.
Mercury	10 lbs.
Mercury compounds	10 lbs.
Lead	100 lbs.
Lead compounds	100 lbs.

Toxics Release Inventory Chemical List

EPA adopted a list of some 600 chemicals which facilities must report under Section 313 of EPCRA. With the Governor’s authority, a chemical may be added to the list if it is known to cause or can reasonably be anticipated to cause significant adverse acute health hazards outside a facility as a result of continuous or frequently recurring releases.

In addition, chemicals may be added if they cause or may be reasonably anticipated to cause cancer or birth defects or serious or irreversible reproductive dysfunctions, neurological disorders, heritable genetic or other chronic health effects. A chemical that causes or may cause a significant adverse effect on the environment may also be included. EPA may delete chemicals from the list if there is not sufficient evidence to establish that the chemical meets any of the criteria.

Off-site Transfers

An off-site transfer is the transfer of wastes to a facility that is geographically or physical separate from the manufacturing site. Chemicals are reported as either transfers for treatment, disposal, recycling, and energy recovery or “other” means.

Off-site Transfers for Disposal

Disposal of toxic chemicals usually means either release to land (as in a landfill) or underground injection, in this case, at the off-site location.

Off-site Transfers for Energy Recovery

Energy recovery is the combustion process in industrial furnaces or boilers that generate energy for use at the location. Non-combustible chemicals like metals and halons should not be reported under this category. Treatment or destruction by incineration is not energy recovery.

Off-site Transfers for Recycling

Recycling means the recovery or regeneration of chemicals by a variety of methods including solvent recovery, metals recovery or acid regeneration. Once they have been recovered, the chemicals may be returned to the originating facility or made available for commerce.

Off-site Transfers for Treatment

Treatment of toxic chemicals may include biological treatment, neutralization, incineration or physical separation. Treatment usually results in varying degrees of destruction of the chemical. Treatment may prepare the chemicals for disposal.

Underground Injection

Underground injection is the disposal of fluids by burial of the fluids in a Class I or V well.

Total Waste

The sum of Section 8, Column B on Form R or the total of releases, on- and off-site recycling, on- and off-site energy recovery, and on- and off-site treatment for the current reporting year. Where this total is 500 pounds or less and total chemical use is less than one million pounds, a facility may use the abbreviated Form A or certification Form to report.

Acronyms

Ecology – Washington State Department of Ecology

EHS – extremely hazardous substance, 40 CFR Part 355.30

EPA - Environmental Protection Agency

EPCRA - Emergency Planning and Community Right-to-Know Act of 1986

Form R- Five page individual chemical report filed under EPCRA Section 313, the Toxics Release Inventory

Form A – Two page individual chemical report filed under EPCRA Section 313, the Toxics Release Inventory

LEPC – Local Emergency Planning Committee

OSHA - Occupational Safety and Health Administration

POTW- Publicly owned treatment works

SARA Title III – Superfund Amendments and Reauthorization Act Title III, another name for EPCRA

SERC- State Emergency Response Commission

Tier Two - Emergency Planning and Hazardous Chemical Inventory Reports filed under **EPCRA** Section 312

TRI – Toxic or Toxics Release Inventory, EPCRA 313 and data collected under EPCRA 313

TRIDS – Toxics Release Inventory Display System

Appendix 2

Tier Two Reporting, 2001

LEPC	Number of Reporting Facilities	Number of Chemicals Reported	Number of EHS Reporting Facilities	Number of EHS Chemicals Reported
Adams	37	202	24	79
Asotin	10	25	3	5
Benton	69	394	45	99
Chelan	82	483	56	180
Clallam	50	134	19	23
Clark	137	1134	64	167
Columbia	16	56	10	21
Cowlitz	63	531	36	88
Douglas	28	54	19	21
Ferry	8	32	2	4
Franklin	68	921	40	243
Garfield	10	31	5	8
Grant	114	931	60	303
Grays Harbor	73	205	26	34
Island	27	129	7	11
Jefferson	17	63	6	7
King	551	1880	273	385
City Of Auburn	17	157	5	22
City Of Kent	91	766	35	117
Total King County	659	2803	313	524
Kitsap	71	206	39	50
Kittitas	39	86	21	25
Klickitat	13	56	6	9
Lewis	63	246	29	48
Lincoln	38	110	26	38
Mason	17	45	6	6
Okanogan	56	243	33	98
Pacific	20	42	12	15
Pend Oreille	7	43	3	6
Pierce County	201	855	104	138
Fort Lewis	4	29	3	7
City Of Puyallup	6	20	4	4
Total Pierce	211	904	111	149
San Juan	14	24	3	3
Skagit	95	548	33	95
Skamania	10	49	4	5
Snohomish	142	523	64	95
SW Snohomish	19	73	7	9
Total Snohomish	161	596	71	104
Spokane	195	984	87	168
Stevens	21	94	10	11
Thurston	64	195	24	35
Wahkiakum	5	7	4	4
Walla Walla	52	287	26	65
Whatcom	92	522	37	66
Whitman	54	313	37	98
City of Pullman	10	45	5	12
Total Whitman	64	358	42	110
Yakima	174	765	122	314

Appendix 3

Washington State TRI by Chemical, 2001

Chemical	Carcinogen	PBT	Air	Land	Water	2001 Releases	2001 Transfers	2000 Releases	2000 Transfers
1,1,1-TRICHLOROETHANE	No	No	2,526	0	0	2,526	36,097		
1,1-DICHLORO-1-FLUOROETHANE	No	No	19,254	0	0	19,254	0	32,183	0
1,2,4-TRIMETHYLBENZENE	No	No	7,014	379	0	7,393	19,892	12,515	22,611
1,2-DICHLOROETHANE	Yes	No	2,692	0	0	2,692	10		
1,3-BUTADIENE	Yes	No	1,315	0	0	1,315	0	1,000	0
1,3-DICHLOROPROPYLENE	No	No	130	0	0	130	0	126	0
4,4'-ISOPROPYLIDENEDIPHENOL	No	No	0	0	0	0	0	0	0
ACETALDEHYDE	Yes	No	587,902	0	7,369	595,521	5	720,125	9
ACETONITRILE	Yes	No	6,424	0	0	6,424	14,041	0	11,528
ACRYLAMIDE	Yes	No	38	0	0	38	141	42	215
ACRYLIC ACID	No	No	250	0	0	250	0	281	0
ALUMINUM (FUME OR DUST)	No	No	481	0	0	481	98,227	1,101	136,984
AMMONIA	No	No	1,529,055	18,213	141,816	1,693,879	280,682	2,174,597	816,392
ANTHRACENE	No	No	1	0	0	1	1		
ANTIMONY	No	No	17	0	0	17	112	22	102
ANTIMONY COMPOUNDS	No	No	0	0	0	0	15,402	0	24,313
ARSENIC COMPOUNDS	Yes	No	13	15,128	390	15,531	4,648	4,715	796
BARIUM COMPOUNDS	No	No	426	2,373,027	9,842	2,383,295	293,251	2,322,833	464,703
BENZENE	Yes	No	72,660	256	372	73,288	8,019	103,939	6,516
BENZO(G,H,I)PERYLENE	No	Yes	743	9	14	769	14,234	4,712	63,462
BENZOYL PEROXIDE	No	No	0	0	0	0	0	25	451
BIPHENYL	No	No	5,950	0	0	5,950	2,042	1,283	4,028
CARBON DISULFIDE	No	No	3,562	0	3	3,565	13	11,248	0
CARBONYL SULFIDE	No	No	565,962	0	0	565,962	0	2,200,010	0
CATECHOL	Yes	No	87	0	420	508	19,259	1,176	8,705

Chemical	Carcinogen	PBT	Air	Land	Water	2001 Releases	2001 Transfers	2000 Releases	2000 Transfers
CERTAIN GLYCOL ETHERS	No	No	513,510	0	290	513,800	112,752	438,810	115,094
CHLORINE	No	No	81,577	0	23,204	104,781	250	165,245	250
CHLORINE DIOXIDE	No	No	15,846	0	0	15,846	0	11,585	0
CHLORODIFLUOROMETHANE	No	No	3,503	0	0	3,503	0	14,659	0
CHLOROFORM	Yes	No	37,947	0	5,114	43,061	32	284,322	2
CHLOROPICRIN	No	No	4	0	0	4	0	3	0
CHROMIUM	Yes	No	25,277	0	58	25,335	96,177	13,413	128,830
CHROMIUM COMPOUNDS	Yes	No	1,127	165,069	1,643	167,839	135,006	168,069	237,799
COBALT COMPOUNDS	Yes	No	72	106,618	91	106,781	9,385	52,267	10,790
COPPER	No	No	474	166,478	633	167,637	1,779,260	24,608	2,837,070
COPPER COMPOUNDS	No	No	6,200	212,247	756	219,203	481,699	225,662	842,318
CREOSOTE	Yes	No	955	0	126	1,081	53,593	2,775	5,686
CRESOL (MIXED ISOMERS)	No	No	24,220	84	186	24,495	8	3,018	0
CUMENE	No	No	1,667	102	0	1,769	346	2,905	152
CYANIDE COMPOUNDS	No	No	0	7,200	0	7,200	0	11,044	25,897
CYCLOHEXANE	No	No	33,460	221	220	33,901	780	34,537	308
DECABROMODIPHENYL OXIDE	No	No	0	0	0	0	35,996	0	53,843
DI(2-ETHYLHEXYL) PHTHALATE	Yes	Yes	84	0	0	84	0	211	1,479
DIBUTYL PHTHALATE	No	Yes	6,556	0	0	6,556	680	3,401	468
DICHLORODIFLUOROMETHANE (CFC-12)	No	No	12,000	0	0	12,000	0	11,000	0
DICHLOROMETHANE	Yes	No	73,629	0	34	73,663	45,040	103,566	21,428
DIETHANOLAMINE	No	No	28,953	0	3,100	32,053	20,488	30,259	22,332
DIISOCYANATES	No	No	55	250	0	305	2,050	78	20,767
DIMETHYLAMINE	No	No	13	0	7	20	0	13	0
DIPHENYLAMINE	No	No	255	250	0	505	0	250	0
DIURON	No	No	0	0	0	0	0	0	0
ETHYLBENZENE	Yes	No	26,292	136	0	26,428	158,005	27,725	4,985
ETHYLENE	No	No	70,845	0	0	70,845	0	50,863	0
ETHYLENE GLYCOL	No	No	71,201	0	0	71,201	309,455	56,161	368,995
FORMALDEHYDE	Yes	No	133,367	0	21,300	154,942	6,808	201,936	6,072
FORMIC ACID	No	No	1,818	0	5,485	7,553	0	8,152	0

Chemical	Carcinogen	PBT	Air	Land	Water	2001 Releases	2001 Transfers	2000 Releases	2000 Transfers
FREON 113	No	No	38,392	0	0	38,392	14,550	43,439	16,662
HEXACHLOROBENZENE	No	Yes	0	0	0	0	0	0	0
HYDROCHLORIC ACID	No	No	1,747,776	0	0	1,747,776	1,235	2,007,985	1,561
HYDROGEN CYANIDE	No	No	1,700	0	0	1,700	0		
HYDROGEN FLUORIDE	No	No	323,942	0	0	323,942	8,805	1,190,242	13,337
LEAD	Yes	Yes	1,245	33,586	1,404	42,361	171,096	25,233	87,015
LEAD COMPOUNDS	Yes	Yes	6,539	202,358	5,528	216,316	1,115,427	147,457	804,523
LITHIUM CARBONATE	No	No	318	0	0	318	0	1,595	0
MANGANESE	No	No	1,510	0	522	2,032	459,701	18,081	621,582
MANGANESE COMPOUNDS	No	No	7,587	950,289	215,721	1,284,897	854,177	1,404,203	864,217
MERCURY	No	Yes	345	156	0	501	21	518	146
MERCURY COMPOUNDS	No	Yes	175	190	10	388	20,013	1,850	33,481
METHAM SODIUM	No	No	10,511	0	40	10,551	6,470	9,502	8,509
METHANOL	No	No	3,329,827	250	275,010	3,618,147	181,445	4,382,847	309,374
METHYL ETHYL KETONE	No	No	589,063	750	1,270	591,333	765,286	764,787	840,955
METHYL ISOBUTYL KETONE	No	No	89,260	0	0	89,260	417,290	136,148	164,212
METHYL METHACRYLATE	No	No	34,794	0	0	34,794	681	72,197	193
METHYL TERT-BUTYL ETHER	No	No	3,272	0	0	3,272	463	1,239	890
MOLYBDENUM TRIOXIDE	No	No	0	0	0	0	54,000	280	74,705
N,N-DIMETHYLFORMAMIDE	No	No	4,575	0	0	4,575	172		
NAPHTHALENE	No	No	5,249	159	0	5,408	10,756	5,261	7,397
N-BUTYL ALCOHOL	No	No	456,277	0	0	456,277	170,788	418,512	79,606
N-HEXANE	No	No	148,847	575	430	149,852	4,518	132,795	54,147
NICKEL	Yes	No	1,766	6,987	809	9,562	83,222	21,621	140,366
NICKEL COMPOUNDS	Yes	No	1,117	75,232	840	77,189	125,030	56,682	61,250
NITRATE COMPOUNDS	No	No	270	164,175	1,417,527	1,584,372	3,954,133	1,936,810	3,957,031
NITRIC ACID	No	No	3,265	5	15	3,285	508,409	7,324	431,465
NITROGLYCERIN	No	No	0	0	0	0	0		
N-METHYL-2-PYRROLIDONE	No	No	18,189	0	0	18,189	265,343	13,246	566,939

Chemical	Carcinogen	PBT	Air	Land	Water	2001 Releases	2001 Transfers	2000 Releases	2000 Transfers
PENTACHLOROPHENOL	Yes	Yes	80	24	0	104	4,359	108	1,701
PHENANTHRENE	No	No	34	0	0	34	0	1,371	2,142
PHENOL	No	No	134,599	286	1,189	136,098	8,125	153,329	7,829
POLYCHLORINATED BIPHENYLS	Yes	Yes	0	0	0	0	0	0	61
POLYCYCLIC AROMATIC COMPOUNDS	Yes	Yes	18,849	394	278	19,579	372,499	89,121	3,598,786
PROPYLENE	No	No	100,990	0	0	100,990	0	53,264	0
PYRIDINE	No	No	4,907	0	0	4,907	16		
SEC-BUTYL ALCOHOL	No	No	18,700	0	0	18,700	29,758	28,800	24,710
SILVER	No	No	0	0	0	0	216,306	0	153,863
SODIUM DIMETHYLDITHIOCARBAMATE	No	No	331	0	4	335	592	175	336
STYRENE	Yes	No	1,140,280	0	100	1,140,380	18,487	1,659,605	64,669
SULFURIC ACID	No	No	1,819,635	0	0	1,819,635	0	1,614,917	0
TETRABROMOBISPHENOL A	No	Yes	956	0	0	956	685	930	464
TETRACHLOROETHYLENE	Yes	No	22,587	0	0	22,587	29,168	19,101	40,182
TOLUENE	No	No	484,270	1,056	98	485,424	1,026,769	611,006	892,017
TOLUENE DIISOCYANATE (MIXED ISOMERS)	Yes	No	380	0	0	380	300	364	0
TRANS-1,3-DICHLOROPROPENE	No	No	62	0	0	62	0	60	0
TRICHLOROETHYLENE	Yes	No	172,047	0	5	172,052	66,418	154,831	27,268
VANADIUM COMPOUNDS	No	No	514	421,812	81	422,407	18,244	405,971	26,250
VINYL ACETATE	Yes	No	5,995	0	250	6,245	0	8,283	0
XYLENE (MIXED ISOMERS)	No	No	225,058	1,282	111	226,451	833,715	311,053	224,856
ZINC (FUME OR DUST)	No	No	30	0	0	30	537	5,732	3,119
ZINC COMPOUNDS	No	No	22,578	123,724	11,874	158,176	5,037,777	274,537	5,923,588

Appendix 4

Washington State Certification Form Reporters, 2001

Facility	City	County	Chemical
Achilles Usa Inc	Everett	Snohomish	Barium Compounds Cadmium Compounds Zinc Compounds
Adm Animal Health & Nutrition Division	Spokane	Spokane	Copper Compounds Selenium Compounds
Air Liquide America Corp.	Tacoma	Pierce	Propylene
Allweather Wood Treaters	Washougal	Clark	Arsenic Compounds Chromium Compounds (Except for Chromite Ore Mined in the Transvaal Reg) Copper Compounds
Asahipen America, Inc.	Seattle	King	Ethylene Glycol
Ball Metal Beverage Container Corp.	Kent		Manganese
Basic American Foods	Moses Lake	Grant	Ammonia
Brooks Manufacturing Co.	Bellingham	Whatcom	Pentachlorophenol
Canam Steel Corporation	Sunnyside	Yakima	Aluminum (Fume Or Dust) Barium Compounds Chromium Copper Lead Manganese Nickel Phosphorus (Yellow Or White) Zinc (Fume Or Dust)
Cargill, Incorporated	Burlington	Skagit	Manganese Compounds Zinc Compounds
Cascade Columbia Distribution	Seattle	King	Ammonia Ethylene Glycol Formaldehyde Hydrogen Fluoride Methyl Ethyl Ketone Nitric Acid Sodium Nitrite Toluene Trichloroethylene
Cascade Pole & Lumber Company	Tacoma	Pierce	Arsenic Compounds Chromium Compounds (Except for Chromite Ore Mined in the Transvaal Reg) Copper Compounds Pentachlorophenol
Ch2o, Inc.	Olympia	Thurston	Nitrate Compounds

Facility	City	County	Chemical
Ch2o, Inc.	Olympia	Thurston	Nitric Acid Sodium Nitrite
Chemco, Inc.	Ferndale	Whatcom	Formaldehyde Methanol
Columbia Machine, Inc.	Vancouver	Clark	
Connelly Skis Inc.	Lynnwood	Snohomish	Diisocyanates
Cutler-Hammer	Kent	King	Copper
Cytec Industries, Inc.	Longview	Cowlitz	Acrylic Acid Ammonia Formaldehyde Hydrochloric Acid (1995 &After "Acid Aerosols" Only)
Exotic Metals Forming Co.	Kent	King	Methanol Chromium Compounds (Except for Chromite Ore Mined in the Transvaal Reg) Nickel Compounds
Exterior Wood Inc.	Washougal	Clark	Diethanolamine
Fleetwood Homes of Washington	Woodland	Cowlitz	Diisocyanates #31
Foamex LP	Kent	King	Diethanolamine
Foamex LP	Lakewood	Pierce	Diisocyanates
Fort James.	Camas	Clark	Catechol Certain Glycol Ethers Nitric Acid
Gaco Western, Inc.	Tukwila	King	Toluene Diisocyanate (Mixed Isomers)
Goldendale Aluminum Co	Goldendale	Klickitat	Chlorine Chromium Copper Manganese
Hobart Bakery Systems	Orting	Pierce	Chromium Diisocyanates Manganese Nickel
IBP Inc.	Walla Walla	Walla Walla	Chromium Nickel
Inchelium Tribal Wood	Inchelium	Ferry	Arsenic Compounds Chromium Compounds (Except for Chromite Ore Mined in the Transvaal Reg) Copper Compounds
Janicki Industries	Sedro-	Skagit	Diisocyanates Styrene
JCI Jones Chemicals, Inc.	Tacoma	Pierce	Ammonia
Jeld-Wen Coatings	Tukwila	King	Zinc Compounds

Facility	City	County	Chemical	
Kelly-Moore Preservative Paint Co.	Seattle	King	Ammonia	
Kelly-Moore Preservative Paint Co.	Seattle	King	Barium Compounds Certain Glycol Ethers Cobalt Compounds Dibutyl Phthalate Ethylene Glycol Manganese Compounds Methanol N-Butyl Alcohol Toluene Xylene (Mixed Isomers) Zinc Compounds	
Land O Lakes Farmland	Chehalis	Lewis	Copper Compounds	
	Othello	Adams		
	Everson	Whatcom		
	Grandview	Benton	Manganese Compounds	
	Chehalis	Lewis		
	Othello	Adams		
	Everson	Whatcom		
	Chehalis	Lewis	Zinc Compounds	
	Everson	Whatcom		
	Grandview	Benton		
Lincoln Mutual Service Inc #1	Othello	Adams		
	Almira	Lincoln	1,2,4-Trimethylbenzene Benzene Ethylbenzene Toluene Xylene (Mixed Isomers)	
	Lister Chain & Forge Longview Aluminum Mica Brick Plant Mikron Industries Inc.	Blaine	Whatcom	Manganese
		Longview	Cowlitz	Lithium Carbonate
		Mica	Spokane	Manganese Compounds
Kent		King	Antimony Compounds Chromium Compounds (Except for Chromite Ore Mined in the Transvaal Reg	
Moses Lake Industries Newcastle Brick Plant	Moses Lake	Grant	Copper Compounds	
	Renton	King	Barium Compounds Manganese Compounds	
Northwest Casting	Seattle		Chromium Manganese	
Northwest Terminalling Company (Pasco)	Pasco	Franklin	Cresol (Mixed Isomers)	
Obrien Intl Inc	Redmond	King	Diisocyanates	
Pacific Coating & Laminating	Kelso	Cowlitz		

Facility	City	County	Chemical
Ponderay Newsprint Company	Usk	Pend Oreille	Potassium Dimethyldithiocarbamate
Purina Mills LLC	Spokane	Spokane	Copper Compounds Manganese Compounds Zinc Compounds
R A Perarson Co			Chromium Compounds (Except for Chromite Ore Mined In The Transvaal Reg)
Saint Gobain Containers	Seattle	King	
Savage Western Transports Inc.	Pasco	Franklin	Ammonia
Simpson Timber Company, NW Timber & Wood Products	Shelton	Mason	Diisocyanates
Snokist Growers - Cannery	Yakima	Yakima	Ammonia Chlorine
St John Grange Supply Inc	St John	Whitman	Ammonia
Telect Inc.	Liberty Lake	Spokane	Diisocyanates
Tessengerlo Kerley, Inc.	Kennewick	Benton	Dimethylamine Sodium Dimethyldithiocarbamate
Transpro Inc.	Seattle	King	Copper
Trident Seafoods Corp.	Anacortes	Skagit	Ammonia
U.S. Oil & Refining Co.	Tacoma	Pierce	Certain Glycol Ethers
Vopak Usa Inc.	Kent	King	1,2,4-Trimethylbenzene Diethanolamine Ethylbenzene Ethylene Glycol Methyl Isobutyl Ketone N-Butyl Alcohol Nitric Acid Nitrilotriacetic Acid Tetrachloroethylene Toluene Xylene (Mixed Isomers)
Wesmar Co. Inc.	Seattle		Certain Glycol Ethers
Western Pneumatic Tube Company	Kirkland		Chromium Nickel
Western Sintering Co. Inc.	Richland	Benton	Ammonia Copper
Western Steel Casting Co	Seattle	King	Chromium Manganese Nickel
Western Wood Preserving Co.	Sumner	Pierce	Arsenic Compounds Chromium Compounds (Except for Chromite Ore Mined in the Transvaal Reg Copper Compounds

Appendix 5

Washington State TRI Dioxin and Dioxin-like Compounds, 2001 (in Grams)

Facility	City	County	Air	Water	Land	Total	Transfer
Ash Grove Cement Company	Seattle	King	0.434	0	0	0.434	0
Boise Cascade Paper Division	Walla Walla	Walla Walla	0.374	0.131	0.0217	0.5267	0
Boise Kettle Falls Plywood Mill	Kettle Falls	Stevens	0.1295	0	0	0.1295	0.0098
Boise Yakima Complex	Yakima	Yakima	0.1453	0	0	0.1453	0.0103
Brooks Manufacturing Company	Bellingham	Whatcom	0.023	0.0282	0	0.0512	2.98
Cascade Pole & Lumber Company	Tacoma	Pierce	21.3061	1.903	0	23.2091	107.65
City of Tacoma Steam Plant No 2	Tacoma	Pierce	0.537004	0	0.000008	0.537012	0.126
Daishowa America Co. Ltd.	Port Angeles	Clallam	0.35	1.74	0	2.09	3.85
Fort James Camas L.L.C.	Camas	Clark	0.8967	4.9905	0.7864	6.6736	0
Grays Harbor Paper LP	Hoquiam	Grays Harbor	0.699	0.016	0.113	0.828	0
J. H. Baxter & Co.	Arlington	Snohomish	0.0013	0	7.9479	7.9492	368.2712
Kaiser Aluminum & Chemical Corporation - Trentwood Works	Spokane	Spokane	0.732	0	0	0.732	1.222
Kimberly-Clark Corporation	Everett	Snohomish	0.084	17.034	6.974	24.092	21.035
Lafarge North America	Seattle	King	3.8	0	0	3.8	0
Longview Fibre Company	Longview	Cowlitz	1.35	0	0	1.35	0.278
Phillips 66 Company Ferndale Refinery	Ferndale	Whatcom	0.17	0	0	0.17	0
Port Townsend Paper Corporation	Port Townsend	Jefferson	0.41	0	0.073	0.483	0
Simpson Tacoma Kraft Company	Tacoma	Pierce	1.7323	0.1573	0	1.8896	54.1458
Tesoro Refining & Marketing Company	Anacortes	Skagit	0.431	1.7461	5.3522	7.5293	1.2535
The Oeser Company	Bellingham	Whatcom	0.0034	0.1481	0	0.1515	0.0412
Transalta Centralia Generation / Mining	Centralia	Lewis	2.01	0	0	2.01	0
Weyerhaeuser Company	Longview	Cowlitz	1.203	0.02	0	1.223	3.6
Weyerhaeuser Pulp Mill	Cosmopolis	Grays Harbor	0.23	0.008	0	0.238	0.1837
			Grand Total				
			37.051604	27.9222	21.268208	86.242012	564.6565

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Appendix 6

Washington TRI - 2001 by County, Facility, Chemical

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
ADAMS	MCCAIN FOODS USA, INC.	OTHELLO	AMMONIA	6,480	0	0	6,480	3,300	37,176	0
			CHLORINE DIOXIDE	50	0	0	50	3,300	0	0
			Summary for 'Facility' = MCCAIN FOODS USA, INC.	6,530	0	0	6,530		37,176	
	Summary for 'County' = ADAMS			6,530	0	0	6,530		37,176	
BENTON	AGRIUM KENNEWICK FERTILIZER OPERATIONS - FINLEY AREA	KENNEWICK	AMMONIA	1,050	0	30	1,080	32,640	0	0
			COPPER COMPOUNDS	0	5	0	5	5	0	0
			NICKEL COMPOUNDS	0	5	0	5	5	0	0
			NITRATE COMPOUNDS	0	570	0	570	33,005	0	0
	Summary for 'Facility' = AGRIUM KENNEWICK FERTILIZER OPERATIONS - FINLEY AREA			1,050	580	30	1,660		0	
BENTON	AGRIUM KENNEWICK FERTILIZER OPERATIONS - HEDGES AREA	KENNEWICK	AMMONIA	230	20	140	390	470	0	0
BENTON	AGRIUM KENNEWICK FERTILIZER OPERATIONS - KENNEWICK AREA	KENNEWICK	AMMONIA	670,610	500	3,690	674,800	766,430	3,710	4,530
			NITRATE COMPOUNDS	255	86,600	28,500	115,355	94,075	121,370	143,700
			NITRIC ACID	0	5	10	15	10	10	0
	Summary for 'Facility' = AGRIUM KENNEWICK FERTILIZER OPERATIONS - KENNEWICK AREA			670,86	87,105	32,200	790,170		125,09	
BENTON	ALLIED TECHNOLOGY GROUP - RICHLAND	RICHLAND	LEAD	0	0	0	0		841	
BENTON	FRAMATOME ANP INC.	RICHLAND	AMMONIA	3,800	0	0	3,800	2,500	713	250
			HYDROGEN FLUORIDE	250	0	0	250	250	655	530
			NITRATE COMPOUNDS	0	0	0	0	0	1,113,000	701,000
			NITRIC ACID	0	0	0	0	0	13,000	10,400
	Summary for 'Facility' = FRAMATOME ANP INC.			4,050	0	0	4,050		1,127,3	
BENTON	LAMB WESTON INC. RICHLAND FACILITY	RICHLAND	CHLORINE	0	0	0	0	0	0	0
			NITRATE COMPOUNDS	0	0	6,770	6,770	3,564	0	0
	Summary for 'Facility' = LAMB WESTON INC. RICHLAND FACILITY			0	0	6,770	6,770		0	
BENTON	MILNE FRUIT PRODUCTS, INC.	PROSSER	1,2,4-TRIMETHYLBENZENE	0	0	0	0		0	

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
BENTON	MILNE FRUIT PRODUCTS, INC.	PROSSER	BIPHENYL	0	0	0	0		0	
			NAPHTHALENE	0	0	0	0		0	
			XYLENE (MIXED ISOMERS)	0	0	0	0		0	
	Summary for 'Facility' = MILNE FRUIT PRODUCTS, INC.			0	0	0	0		0	
BENTON	RICHLAND SPECIALTY EXTRUSIONS	RICHLAND	COPPER	0	0	0	0	0	40,455	0
BENTON	SANDVIK SPECIAL METALS CORP.	KENNEWICK	HYDROGEN FLUORIDE	55	0	0	55	55	0	0
			NITRATE COMPOUNDS	0	0	431,000	431,000	452,000	0	0
			NITRIC ACID	115	0	0	115	115	0	0
	Summary for 'Facility' = SANDVIK SPECIAL METALS CORP.			170	0	431,00	431,170		0	
BENTON	TESSENDERLO KERLEY, INC.	KENNEWICK	AMMONIA	1,738	0	0	1,738	3,307	3,054	0
			CARBON DISULFIDE	20	0	0	20	10	0	0
			METHAM SODIUM	509	0	0	509	278	12	15
	Summary for 'Facility' = TESSENDERLO KERLEY, INC.			2,267	0	0	2,267		3,066	
BENTON	U.S. DOE HANFORD SITE	RICHLAND	LEAD	5	11,480	1	11,486		198	
	Summary for 'County' = BENTON			678,637	99,185	470,141	1,247,963		1,297,01	
CHELAN	ALCOA WENATCHEE WORKS	MALAGA	BENZO(G,H,I)PERYLENE	271	0	0	271	831	2,108	2,106
			CARBONYL SULFIDE	164,286	0	0	164,286	588,486	0	0
			LEAD	267	36	0	303		2	
			POLYCYCLIC AROMATIC COMPOUNDS	2,448	0	0	2,448	6,135	15,566	15,546
	Summary for 'Facility' = ALCOA WENATCHEE WORKS			167,27	36	0	167,308		17,676	
CHELAN	TREE TOP, INC. - CASHMERE PLANT	CASHMERE	POLYCYCLIC AROMATIC COMPOUNDS	0	0	0	0	0	0	0
CHELAN	TREE TOP, INC. WENATCHEE PLANT	WENATCHEE	NITRATE COMPOUNDS	0	0	0	0	0	48,000	35,400
	Summary for 'County' = CHELAN			167,272	36	0	167,308		65,676	
CLALLAM	DAISHOWA AMERICA CO. LTD.	PORT ANGELES	AMMONIA	250	0	1,531	1,781	3,300	0	0
			BENZO(G,H,I)PERYLENE	0	0	0	0	0	5	5
			LEAD	45	0	460	504		261	
			METHANOL	21,433	0	75	21,508	14,120	0	0
			NITRATE COMPOUNDS	0	0	20,400	20,400	93,418	0	0

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
CLALLAM	DAISHOWA AMERICA CO. LTD.	PORT ANGELES	POLYCYCLIC AROMATIC COMPOUNDS	1	0	0	1	1	51	54
			SULFURIC ACID	23,455	0	0	23,455	24,636	0	0
	Summary for 'Facility' = DAISHOWA AMERICA CO. LTD.			45,184	0	22,466	67,649		317	
	Summary for 'County' = CLALLAM			<u>45,184</u>	<u>0</u>	<u>22,466</u>	<u>67,649</u>		<u>317</u>	
CLARK	ALBINA ASPHALT/VANCOUVER ICE & FUEL	VANCOUVER	1,2,4-TRIMETHYLBENZENE	175	0	0	175	194	0	0
			BENZENE	112	0	0	112	124	0	0
			ETHYLBENZENE	112	0	0	112	124	0	0
			N-HEXANE	496	0	0	496	550	0	0
			TOLUENE	503	0	0	503	558	0	0
			XYLENE (MIXED ISOMERS)	503	0	1	504	558	0	0
			ZINC COMPOUNDS	0	0	0	0	0	0	0
	Summary for 'Facility' = ALBINA ASPHALT/VANCOUVER ICE & FUEL			1,901	0	1	1,902		0	
CLARK	ATTBAR, INC.	RIDGEFIELD	STYRENE	61,800	0	0	61,800	66,714	0	0
CLARK	AVX VANCOUVER CORP.	VANCOUVER	BARIUM COMPOUNDS	0	0	0	0	0	109,161	225,503
			LEAD	0	0	0	0		609	
	Summary for 'Facility' = AVX VANCOUVER CORP.			0	0	0	0		109,77	
CLARK	AXCYL INC.	VANCOUVER	STYRENE	7,496	0	0	7,496	1,500	0	0
CLARK	BETZDEARBORN - WASHOUGAL	WASHOUGAL	NAPHTHALENE	10	0	0	10	10	1,260	1,510
CLARK	CHRISTENSEN SHIPYARDS LTD.	VANCOUVER	STYRENE	3,467	0	0	3,467	5,229	0	0
CLARK	COLUMBIA MACHINE, INC.	VANCOUVER	MANGANESE	15	0	0	15	20	12,000	15,000
CLARK	CONTROLTEK INC	VANCOUVER	LEAD	0	0	0	0		178	
CLARK	CORROSION CONTROLLERS, INC.	WASHOUGAL	STYRENE	6,104	0	0	6,104	11,642	0	0
CLARK	EXTERIOR WOOD INC.	WASHOUGAL	ARSENIC COMPOUNDS	0	0	129	129	14	4,173	217
			CHROMIUM COMPOUNDS	0	0	18	18	20	3,624	172
			COPPER COMPOUNDS	0	0	206	206	8	2,010	126
	Summary for 'Facility' = EXTERIOR WOOD INC.			0	0	353	353		9,807	
CLARK	FABRICATED PRODS. INC. SEAFAB METALS CO.(DBA)	VANCOUVER	LEAD COMPOUNDS	1	0	2	3	5	2	4,055
CLARK	FORT JAMES CAMAS L.L.C.	CAMAS	ACETALDEHYDE	46,100	250	250	46,600	40,000	0	0

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers			
CLARK	FORT JAMES CAMAS L.L.C.	CAMAS	AMMONIA	49,000	0	29,000	78,000	230,250	0	0			
			BENZO(G,H,I)PERYLENE	4	3	0	7	23	1	5			
			CHLORINE	1,905	0	0	1,905	1,667	0	0			
			CHLORINE DIOXIDE	2,250	0	0	2,250	1,705	0	0			
			CRESOL (MIXED ISOMERS)	20,250	5	0	20,255		0				
			FORMALDEHYDE	15,250	250	250	15,750	22,650	0	0			
			FORMIC ACID	1,300	250	5	1,555	1,500	0	0			
			HYDROCHLORIC ACID	8,800	0	0	8,800	120,000	0	0			
			LEAD COMPOUNDS	10	905	220	1,135		0				
			MANGANESE COMPOUNDS	250	26,700	20,000	46,950	53,105	38,000	750			
			MERCURY COMPOUNDS	0	13	0	13		0				
			METHANOL	895,700	12,250	750	908,700	903,805	93	7,400			
			METHYL ETHYL KETONE	12,000	1,000	5	13,005	17,500	680	0			
			NITRATE COMPOUNDS	0	2,400	38,000	40,400	230,250	0	0			
			PHENOL	1,000	250	0	1,250		0				
			POLYCYCLIC AROMATIC COMPOUNDS	160	29	37	226	237	10	65			
			SULFURIC ACID	25,000	0	0	25,000	32,000	0	0			
			Summary for 'Facility' = FORT JAMES CAMAS L.L.C.				1,078,9	44,304	88,517	1,211,80		38,784	
			CLARK	FRITO-LAY INC.	VANCOUVER	NITRIC ACID	0	0	0	0	0	0	0
			CLARK	GL&V PULP USA INC.	VANCOUVER	STYRENE	4,715	0	0	4,715	12,240	0	250
CLARK	GLACIER NORTHWEST INC EAST VANCOUVER READY MIX PLANT	VANCOUVER	LEAD	0	0	0	0		54				
CLARK	GLACIER NORTHWEST INC VANCOUVER READY MIX PLANT	VANCOUVER	LEAD	0	3	0	3		25				
CLARK	GLACIER NORTHWEST INC WEST VANCOUVER READY MIX PLANT	VANCOUVER	LEAD	0	0	0	0		36				
CLARK	HARDER MECHANICAL FABRICATION PIPE SHOP	VANCOUVER	CHROMIUM	250	0	0	250	250	0	0			
			NICKEL	250	0	0	250	250	0	0			
Summary for 'Facility' = HARDER MECHANICAL FABRICATION PIPE SHOP				500	0	0	500		0				
CLARK	INTERNATIONAL ELECTRONICS INC	VANCOUVER	LEAD	0	0	0	0		0				

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
CLARK	LINEAR TECH. CORP.	CAMAS	HYDROGEN FLUORIDE	139	0	0	139	250	230	500
CLARK	MATSUSHITA KOTOBUKI ELECTRONICS INDUSTRIES OF AMERICA, INC.	VANCOUVER	ANTIMONY COMPOUNDS	0	0	0	0	0	15,402	24,313
			DECABROMODIPHENYL OXIDE	0	0	0	0	0	35,996	53,843
	Summary for 'Facility' = MATSUSHITA KOTOBUKI ELECTRONICS INDUSTRIES OF AMERICA, INC.			0	0	0	0		51,398	
CLARK	OLDCASTLE GLASS	BATTLEGROUND	LEAD	0	2	0	2		0	
			TOLUENE	1,000	0	0	1,000		0	
	Summary for 'Facility' = OLDCASTLE GLASS			1,000	2	0	1,002		0	
CLARK	PENDLETON WOOLEN MILLS	WASHOUGAL	FORMIC ACID	0	0	0	0	0	0	0
CLARK	SEH-AMERICA INC.	VANCOUVER	HYDROCHLORIC ACID	665	0	0	665	635	0	0
			HYDROGEN FLUORIDE	125	0	0	125	125	1,200	3,790
			NITRATE COMPOUNDS	0	0	0	0	0	1,011,000	1,267,000
			NITRIC ACID	555	0	0	555	555	20	1,280
	Summary for 'Facility' = SEH-AMERICA INC.			1,345	0	0	1,345		1,012,200	
CLARK	SILICON FOREST ELECTRONICS INC	VANCOUVER	LEAD	0	0	0	0		577	
CLARK	THOMPSON METAL FAB, INC.	VANCOUVER	CHROMIUM	250	0	0	250	250	12,500	12,000
			NICKEL	250	0	0	250	250	4,850	3,500
	Summary for 'Facility' = THOMPSON METAL FAB, INC.			500	0	0	500		17,350	
CLARK	TRIM SYSTEMS LLC VANCOUVER	VANCOUVER	DIISOCYANATES	10	250	0	260	10	750	9,360
			N-METHYL-2-PYRROLIDONE	0	0	0	0		750	
	Summary for 'Facility' = TRIM SYSTEMS LLC VANCOUVER			10	250	0	260		1,500	
CLARK	UNIVERSAL STRUCTURAL INC.	VANCOUVER	NICKEL	250	0	0	250	250	0	0
CLARK	VARICAST INC	VANCOUVER	MANGANESE	500	0	0	500	500	1,347	0
CLARK	VININGS IND. INC.	WASHOUGAL	AMMONIA	41	0	0	41	118	0	0
			CARBON DISULFIDE	235	0	3	238	10,338	13	0
			CERTAIN GLYCOL ETHERS	1	0	0	1	1	0	0
			DIMETHYLAMINE	13	0	7	20	13	0	0
			METHAM SODIUM	4,319	0	40	4,359	4,908	6,458	8,494
			SODIUM DIMETHYLDITHIOCARBAMATE	331	0	4	335	175	592	336

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
Summary for 'Facility' = VININGS IND. INC.				4,940	0	54	4,994		7,063	
CLARK	WAFERTECH LLC	CAMAS	AMMONIA	1,214	0	0	1,214	2,615	11,146	511,370
			CATECHOL	87	0	0	87	650	19,257	8,705
			HYDROGEN FLUORIDE	1,609	0	0	1,609	1,068	2,087	3,757
			NITRATE COMPOUNDS	5	0	0	5	5	26,235	36,116
			NITRIC ACID	451	0	0	451	451	763	797
			N-METHYL-2-PYRROLIDONE	407	0	0	407	1,499	93,505	350,247
Summary for 'Facility' = WAFERTECH LLC				3,773	0	0	3,773		152,99	
Summary for 'County' = CLARK				1,177,445	44,559	88,927	1,310,932		1,416,59	
COWLITZ	CLARIANT CORP.	KALAMA	LEAD COMPOUNDS	0	0	0	0		0	
			ZINC COMPOUNDS	5	0	5	10	2	0	0
Summary for 'Facility' = CLARIANT CORP.				5	0	5	10		0	
COWLITZ	CYTEC INDUSTRIES, INC.	LONGVIEW	ACRYLAMIDE	38	0	0	38	42	141	215
COWLITZ	GLACIER NORTHWEST INC LONGVIEW READY MIX PLANT	LONGVIEW	LEAD	0	0	5	5		76	
COWLITZ	GLACIER NORTHWEST INC WOODLAND READY MIX PLANT	WOODLAND	LEAD	0	2	0	2		60	
COWLITZ	LONGVIEW ALUMINUM LLC	LONGVIEW	BENZO(G,H,I)PERYLENE	326	0	4	330	2,401	12,071	60,508
			CARBONYL SULFIDE	29,645	0	0	29,645	217,175	0	0
			CHLORINE	134	0	633	767	2,391	0	0
			HYDROGEN FLUORIDE	34,486	0	0	34,486	282,887	0	0
			LEAD COMPOUNDS	196	0	5	200		1,110	
			MERCURY	1	0	0	1	1	11	8
			POLYCYCLIC AROMATIC COMPOUNDS	7,467	0	110	7,577	55,002	354,365	3,574,074
Summary for 'Facility' = LONGVIEW ALUMINUM LLC				72,254	0	752	73,006		367,55	
COWLITZ	LONGVIEW FIBRE COMPANY	LONGVIEW	ACETALDEHYDE	26,250	0	0	26,250	34,250	0	0
			AMMONIA	140,005	0	10,000	150,005	178,805	0	0
			BARIUM COMPOUNDS	0	0	0	0	0	20,000	22,000
			CATECHOL	0	0	250	250	250	0	0
			FORMALDEHYDE	10,005	0	11,000	21,005	13,005	0	0
			HYDROCHLORIC ACID	53,005	0	0	53,005	36,005	0	0

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers		
COWLITZ	LONGVIEW FIBRE COMPANY	LONGVIEW	LEAD COMPOUNDS	0	0	0	0		8,300			
			MANGANESE COMPOUNDS	0	0	0	0	0	52,000	60,000		
			METHANOL	271,500	0	73,000	344,500	373,200	0	0		
			NITRATE COMPOUNDS	0	0	73,000	73,000	86,000	0	0		
			NITRIC ACID	0	0	0	0	0	0	0		
			PHENOL	2,605	0	170	2,775	3,375	0	0		
			POLYCYCLIC AROMATIC COMPOUNDS	280	0	3	283	354	2	2		
			ZINC COMPOUNDS	0	0	0	0	0	74,700	77,000		
			Summary for 'Facility' = LONGVIEW FIBRE COMPANY			503,65	0	167,42	671,073		155,00	
			COWLITZ	NOVEON KALAMA, INC.	KALAMA	ACETALDEHYDE	922	0	0	922	819	0
AMMONIA	2,796	617				116	3,529	5,647	1,163	616		
BENZENE	21,130	0				150	21,280	30,487	6,034	5,341		
BENZO(G,H,I)PERYLENE	0	0				0	0	0	0	0		
BIPHENYL	5,950	0				0	5,950	985	2,042	2,341		
COBALT COMPOUNDS	60	0				77	137	844	7,042	7,363		
COPPER COMPOUNDS	150	3				21	174	914	130,347	124,905		
FORMIC ACID	518	0				0	518	772	0	0		
METHANOL	14,461	0				0	14,461	22,278	11	11		
PHENOL	6,643	0				1	6,644	6,824	4,256	5,520		
POLYCYCLIC AROMATIC COMPOUNDS	0	0				0	0	0	0	0		
TOLUENE	88,392	0				0	88,392	95,639	2,951	1,028		
Summary for 'Facility' = NOVEON KALAMA, INC.						141,02	620	365	142,007		153,84	
COWLITZ	SOLVAY INTEROX, INC.	LONGVIEW	NAPHTHALENE	209	0	0	209	217	714	645		
			NITRATE COMPOUNDS	0	0	0	0	0	79,104	100,362		
			NITRIC ACID	0	0	0	0	0	0	0		
			Summary for 'Facility' = SOLVAY INTEROX, INC.				209		79,818			
COWLITZ	STEELSCAPE	KALAMA	1,2,4-TRIMETHYLBENZENE	51	0	0	51	71	13,090	11,869		
			CERTAIN GLYCOL ETHERS	64	0	0	64	85	16,400	14,235		
			CHROMIUM COMPOUNDS	8	0	0	8	8	14,059	7,373		
			LEAD COMPOUNDS	0	0	0	0		200			

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
COWLITZ	STEELSCAPE	KALAMA	METHYL ETHYL KETONE	28	0	0	28	19	7,340	3,255
			NAPHTHALENE	19	0	0	19	14	4,894	2,281
			N-BUTYL ALCOHOL	17	0	0	17	14	4,284	2,335
			TOLUENE	12	0	0	12	19	3,093	3,128
			XYLENE (MIXED ISOMERS)	23	0	0	23	39	6,072	6,542
Summary for 'Facility' = STEELSCAPE				222	0	0	222		69,432	
COWLITZ	STOWE WOODWARD	KELSO	LEAD COMPOUNDS	17	0	0	17		799	
COWLITZ	WEYERHAEUSER COMPANY	LONGVIEW	ACETALDEHYDE	421,430	0	3,889	425,319	485,402	5	9
			AMMONIA	114,722	0	8,550	123,272	144,513	0	0
			BARIUM COMPOUNDS	352	0	0	352	387	36,035	49,378
			BENZO(G,H,I)PERYLENE	1	0	6	7	20	2	5
			CATECHOL	0	0	83	83	184	2	0
			CHLORINE	450	0	22,571	23,021	23,120	0	0
			CHLORINE DIOXIDE	1,846	0	0	1,846	2,205	0	0
			CHLOROFORM	34,420	0	5,114	39,534	49,362	2	2
			CRESOL (MIXED ISOMERS)	1,970	0	186	2,156	2,921	0	0
			DICHLOROMETHANE	27,062	0	1	27,063	33,324	0	0
			FORMALDEHYDE	64,036	0	2,650	66,686	78,911	3	4
			HYDROCHLORIC ACID	40,074	0	0	40,074	48,407	0	0
			LEAD COMPOUNDS	61	0	188	249		502	
			MANGANESE COMPOUNDS	721	0	40,471	41,192	85,226	42,521	55,285
			MERCURY COMPOUNDS	36	0	2	38	41	5	4
			METHANOL	1,234,831	0	8,025	1,242,856	1,438,149	194	236
			METHYL ETHYL KETONE	156,590	0	107	156,697	176,959	9	1,044
NITRATE COMPOUNDS	0	0	366	366	812	6	3			
PHENOL	68,906	0	0	68,906	83,420	1	0			
POLYCHLORINATED BIPHENYLS	0	0	0	0		0				
POLYCYCLIC AROMATIC COMPOUNDS	39	0	45	84	140	35	39			
STYRENE	32,417	0	100	32,517	37,512	0	0			

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
COWLITZ	WEYERHAEUSER COMPANY	LONGVIEW	SULFURIC ACID	46,661	0	0	46,661	45,907	0	0
			ZINC COMPOUNDS	804	0	3,909	4,713	10,300	27,182	28,086
Summary for 'Facility' = WEYERHAEUSER COMPANY				2,247,4	0	96,263	2,343,69		106,50	
Summary for 'County' = COWLITZ				<u>2,964,847</u>	<u>622</u>	<u>264,813</u>	<u>3,230,282</u>		<u>933,235</u>	
FERRY	K2 MINE	CURLEW	LEAD COMPOUNDS	1	1,510	0	1,511		0	
			MERCURY COMPOUNDS	0	91	0	91	777	0	0
Summary for 'Facility' = K2 MINE				1	1,601	0	1,602		0	
FERRY	KETTLE RIVER OPERATIONS MILL	REPUBLIC	COPPER COMPOUNDS	4	66,000	0	66,004	60,000	0	0
			CYANIDE COMPOUNDS	0	7,200	0	7,200	11,000	0	0
			LEAD COMPOUNDS	2	43,000	0	43,002	130,001	0	0
			NITRATE COMPOUNDS	0	77,005	0	77,005	120,015	0	0
Summary for 'Facility' = KETTLE RIVER OPERATIONS MILL				6	193,20	0	193,211		0	
FERRY	LAMEFOOT MINE	REPUBLIC	LEAD COMPOUNDS	0	4,220	0	4,220		0	
			MERCURY COMPOUNDS	0	28	0	28	655	0	0
Summary for 'Facility' = LAMEFOOT MINE				0	4,248	0	4,248		0	
Summary for 'County' = FERRY				<u>6</u>	<u>199,054</u>	<u>0</u>	<u>199,060</u>		<u>0</u>	
FRANKLIN	LAMB WESTON	CONNELL	NITRATE COMPOUNDS	0	0	0	0	0	0	0
FRANKLIN	LAMB-WESTON, INC. PASCO PLANT	PASCO	AMMONIA	5,370	11,297	0	16,667		14,103	
			CHLORINE	5	0	0	5	0	0	0
Summary for 'Facility' = LAMB-WESTON, INC. PASCO PLANT				5,375	11,297	0	16,672		14,103	
FRANKLIN	NORTHWEST TERMINALLING COMPANY (PASCO)	PASCO	1,2,4-TRIMETHYLBENZENE	115	5	0	120	102	744	1,300
			BENZENE	817	0	0	817	1,242	479	779
			ETHYLBENZENE	132	0	0	132	143	328	754
			METHYL TERT-BUTYL ETHER	346	0	0	346	439	436	890
			N-HEXANE	1,516	0	0	1,516	2,646	470	750
			TOLUENE	1,386	0	0	1,386	2,158	1,884	3,278
			XYLENE (MIXED ISOMERS)	656	5	0	661	981	1,736	3,037
Summary for 'Facility' = NORTHWEST TERMINALLING COMPANY (PASCO)				4,968	10	0	4,978		6,077	
FRANKLIN	TIDEWATER TERMINAL CO. SNAKE RIVER TERMINAL	PASCO	1,2,4-TRIMETHYLBENZENE	122	0	0	122	101	0	35

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
FRANKLIN	TIDEWATER TERMINAL CO. SNAKE RIVER TERMINAL	PASCO	1,3-DICHLOROPROPYLENE	130	0	0	130	126	0	0
			AMMONIA	0	0	0	0	17,871	0	0
			BENZENE	915	0	0	915	760	250	0
			BENZO(G,H,I)PERYLENE	0	0	0	0	0	0	0
			CHLOROPICRIN	4	0	0	4	3	0	0
			ETHYLBENZENE	122	0	0	122	101	250	1
			METHAM SODIUM	5,683	0	0	5,683	4,316	0	0
			N-HEXANE	1,097	0	0	1,097	911	0	0
			NITRATE COMPOUNDS	0	0	0	0	0	0	0
			POLYCYCLIC AROMATIC COMPOUNDS	0	0	0	0	0	0	0
			TOLUENE	1,219	0	0	1,219	1,012	250	11
			TRANS-1,3-DICHLOROPROPENE	62	0	0	62	60	0	0
			XYLENE (MIXED ISOMERS)	609	0	0	609	506	250	3
	Summary for 'Facility' = TIDEWATER TERMINAL CO. SNAKE RIVER TERMINAL			9,963	0	0	9,963		1,000	
	Summary for 'County' = FRANKLIN			<u>20,306</u>	<u>11,307</u>	<u>0</u>	<u>31,613</u>		<u>21,180</u>	
GRANT	ADVANCED SILICON MATERIALS LLC	MOSES LAKE	HYDROCHLORIC ACID	2,261	0	0	2,261	2,886	0	0
			HYDROGEN FLUORIDE	0	0	0	0	0	0	0
			NITRATE COMPOUNDS	0	0	0	0	0	167,994	298,429
			NITRIC ACID	478	0	0	478	2,364	0	0
	Summary for 'Facility' = ADVANCED SILICON MATERIALS LLC			2,739	0	0	2,739		167,99	
GRANT	INFLATION SYSTEMS INC.	MOSES LAKE	NITRATE COMPOUNDS	0	0	0	0	0	660	170
GRANT	J R SIMPLOT COMPANY	MOSES LAKE	AMMONIA	21,063	0	0	21,063		16,637	
	Summary for 'County' = GRANT			<u>23,802</u>	<u>0</u>	<u>0</u>	<u>23,802</u>		<u>185,291</u>	
GRAYS HARBOR	GRAYS HARBOR PAPER LP	HOQUIAM	LEAD	141	324	39	504		0	
GRAYS HARBOR	HOWARD MOE ENTERPRISES, INC.	HOQUIAM	STYRENE	5,692	0	0	5,692	2,306	0	0
GRAYS HARBOR	MORTON INTL. INC.	ELMA	METHANOL	42,445	0	0	42,445	82,314	9,521	4,915
GRAYS HARBOR	PACIFIC VENEER LTD	ABERDEEN	LEAD COMPOUNDS	6	0	0	6		109	
GRAYS HARBOR	WESTPORT SHIPYARD INC.	WESTPORT	STYRENE	21,592	0	0	21,592	19,063	0	0

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers		
GRAYS HARBOR	WEYERHAEUSER PULP MILL	COSMOPOLIS	ACETALDEHYDE	8,500	0	750	9,250	8,750	0	0		
			AMMONIA	250	0	750	1,000	2,850	0	0		
			BENZO(G,H,I)PERYLENE	0	0	0	0	0	0	0		
			CERTAIN GLYCOL ETHERS	0	0	250	250	250	0	0		
			CHLORINE	3,700	0	0	3,700	3,800	0	0		
			CHLORINE DIOXIDE	5,705	0	0	5,705	755	0	0		
			FORMIC ACID	0	0	250	250	250	0	0		
			LEAD COMPOUNDS	57	0	94	151		873			
			MANGANESE COMPOUNDS	1,400	0	44,000	45,400	99,400	29,000	36,000		
			METHANOL	49,250	0	250	49,500	72,500	0	0		
			NITRATE COMPOUNDS	0	0	120,000	120,000	63,000	0	0		
			POLYCYCLIC AROMATIC COMPOUNDS	6	0	38	44	14	4	5		
			Summary for 'Facility' = WEYERHAEUSER PULP MILL				68,868	0	166,38	235,250		29,877
			Summary for 'County' = GRAYS HARBOR				<u>138,744</u>	<u>324</u>	<u>166,421</u>	<u>305,489</u>		<u>39,507</u>
			ISLAND	TECHNICAL SERVICES INC	OAK HARBOR	LEAD COMPOUNDS	2	0	0	2		1,470
Summary for 'County' = ISLAND				<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>		<u>1,470</u>			
JEFFERSON	PORT TOWNSEND PAPER CORPORATION	PORT TOWNSEND	ACETALDEHYDE		5,600	0	400	6,000	5,900	0		
			AMMONIA	73,250	0	4,500	77,750	80,750	0	0		
			BENZO(G,H,I)PERYLENE	3	1	0	4	7	0	0		
			CATECHOL	0	0	30	30	30	0	0		
			FORMALDEHYDE	11,000	0	0	11,000	11,000	0	0		
			HYDROCHLORIC ACID	287,000	0	0	287,000	296,000	0	0		
			LEAD COMPOUNDS	61	460	390	911		0			
			MANGANESE COMPOUNDS	1,300	68,000	28,000	97,300	116,750	0	0		
			MERCURY COMPOUNDS	1	0	0	2		0			
			METHANOL	119,300	0	3,300	122,600	123,000	0	0		
			PHENOL	13,000	0	0	13,000	14,000	0	0		
			POLYCYCLIC AROMATIC COMPOUNDS	56	14	0	70	91	0	0		
Summary for 'Facility' = PORT TOWNSEND PAPER CORPORATION				510,57	68,476	36,620	615,667		0			

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
Summary for 'County' = JEFFERSON				<u>510,571</u>	<u>68,476</u>	<u>36,620</u>	<u>615,667</u>	<u>0</u>		
KING	ACE GALVANIZING INC.	SEATTLE	ZINC COMPOUNDS	1,500	0	0	1,500	1,500	340,792	366,098
KING	ALASKAN COPPER WORKS	SEATTLE	CHROMIUM COMPOUNDS	250	0	0	250	15	755	7,005
			MANGANESE COMPOUNDS	5	0	0	5	5	255	305
			NICKEL COMPOUNDS	5	0	0	5	5	755	6,005
			NITRIC ACID	5	0	0	5	5	0	0
Summary for 'Facility' = ALASKAN COPPER WORKS				265	0	0	265		1,765	
KING	AMERICAN MILLWORK INC	KIRKLAND	METHYL ETHYL KETONE	39,000	0	0	39,000	136,000	0	0
			METHYL ISOBUTYL KETONE	20,000	0	0	20,000	57,000	0	0
			TOLUENE	34,000	0	0	34,000	141,000	0	0
Summary for 'Facility' = AMERICAN MILLWORK INC				93,000	0	0	93,000		0	
KING	ARIMA MARINE INTERNATIONAL, INC	AUBURN	STYRENE	7,773	0	0	7,773	10,450	0	0
KING	ART BRASS PLATING INC.	SEATTLE	TRICHLOROETHYLENE	15,200	0	0	15,200	17,820	750	750
KING	ASH GROVE CEMENT CO	SEATTLE	CHROMIUM	23,842	0	0	23,842		0	
			LEAD COMPOUNDS	1,151	0	0	1,151		0	
			MERCURY	77	0	0	77	62	0	0
Summary for 'Facility' = ASH GROVE CEMENT CO				25,070	0	0	25,070		0	
KING	ASKO PROCESSING, INC.	SEATTLE	LEAD COMPOUNDS	0	0	0	0		2,447	
			NITRIC ACID	0	0	0	0	0	0	0
			TRICHLOROETHYLENE	12,626	0	0	12,626	9,925	2,440	610
Summary for 'Facility' = ASKO PROCESSING, INC.				12,626	0	0	12,626		4,887	
KING	BALL METAL BEVERAGE CONTAINER CORP.	KENT	CERTAIN GLYCOL ETHERS	135,000	0	0	135,000	99,000	128	114
			HYDROGEN FLUORIDE	69	0	0	69	70	0	0
			LEAD	0	0	0	0		2	
			N-BUTYL ALCOHOL	122,000	0	0	122,000	85,000	39	28
			SULFURIC ACID	45	0	0	45	46	0	0
Summary for 'Facility' = BALL METAL BEVERAGE CONTAINER CORP.				257,11	0	0	257,114		169	
KING	BALLARD BRASS	SEATTLE	COPPER COMPOUNDS	250	0	0	250	0	6,652	5,554
KING	BARDAHL MFG.CORP.	SEATTLE	LEAD COMPOUNDS	0	0	0	0		3	

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
KING	BCAG - AUBURN	AUBURN	CHROMIUM COMPOUNDS	75	0	0	75	65	69,734	119,274
			COPPER	0	0	0	0	0	428,494	1,027,937
			HYDROGEN FLUORIDE	0	0	0	0	0	4,633	4,760
			LEAD	0	0	0	0	0	221	
			METHYL ETHYL KETONE	19,300	0	0	19,300	20,000	19,740	17,611
			METHYL ISOBUTYL KETONE	7,600	0	0	7,600	5,800	3,495	5,099
			NICKEL	0	0	0	0	0	15,355	35,196
			NITRATE COMPOUNDS	0	0	0	0	0	290,000	120,000
			NITRIC ACID	0	0	0	0	0	35,744	93,067
			SEC-BUTYL ALCOHOL	7,600	0	0	7,600	11,000	20,064	12,850
			TETRABROMOBISPHENOL A	6	0	0	6	0	36	59
			TOLUENE	10,600	0	0	10,600	7,800	10,312	18,356
			Summary for 'Facility' = BCAG - AUBURN				45,181	0	0	45,181
KING	BIRMINGHAM STEEL CORP. SEATTLE, WA. STEEL DIV	SEATTLE	CHROMIUM COMPOUNDS	0	0	0	0	0	0	0
			LEAD COMPOUNDS	888	0	0	888	3,316	382,258	416,928
			MANGANESE COMPOUNDS	1,145	0	0	1,145	3,834	455,660	500,677
			MERCURY COMPOUNDS	0	0	0	0	1	53	52
			NICKEL COMPOUNDS	12	0	0	12	37	4,138	4,615
			ZINC COMPOUNDS	12,550	0	0	12,550	38,036	4,239,75	4,738,635
Summary for 'Facility' = BIRMINGHAM STEEL CORP. SEATTLE, WA. STEEL DIV				14,595	0	0	14,595		5,081,8	
KING	BOEING COMMERCIAL AIRPLANE GROUP - NORTH BOEING FIELD	SEATTLE	CERTAIN GLYCOL ETHERS	1,906	0	0	1,906	1,731	15,685	13,616
			DIETHANOLAMINE	1,625	0	0	1,625	1,819	14,628	16,372
			METHYL ETHYL KETONE	23,614	0	0	23,614	21,683	13,518	13,125
			METHYL ISOBUTYL KETONE	8,690	0	0	8,690	7,119	3,517	3,420
			NAPHTHALENE	250	0	0	250	250	750	750
			Summary for 'Facility' = BOEING COMMERCIAL AIRPLANE GROUP - NORTH BOEING FIELD				36,085	0	0	36,085
KING	BOEING COMMERCIAL AIRPLANE GROUP - PLANT 2	SEATTLE	CERTAIN GLYCOL ETHERS	500	0	0	500	255	0	0
			DIETHANOLAMINE	5	0	0	5	0	1,000	1,000

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
KING	BOEING COMMERCIAL AIRPLANE GROUP - PLANT 2	SEATTLE	METHYL ETHYL KETONE	500	0	0	500	1,522	0	0
			METHYL ISOBUTYL KETONE	500	0	0	500	500	1,250	1,250
			NAPHTHALENE	250	0	0	250	250	1,250	0
	Summary for 'Facility' = BOEING COMMERCIAL AIRPLANE GROUP - PLANT 2			1,755	0	0	1,755		3,500	
KING	BOEING COMMERCIAL AIRPLANE GROUP - RENTON	RENTON	CERTAIN GLYCOL ETHERS	1,789	0	0	1,789	1,991	8,904	15,355
			CHROMIUM	4	0	0	4	3	22,010	7,701
			COPPER	0	0	0	0	0	83,536	65,706
			FREON 113	15,392	0	0	15,392	20,439	750	500
			MANGANESE	0	0	0	0	0	34,588	23,797
			METHYL ETHYL KETONE	33,089	0	0	33,089	31,017	17,957	13,584
			METHYL ISOBUTYL KETONE	12,849	0	0	12,849	12,381	9,302	8,201
			NAPHTHALENE	5	0	0	5	5	0	0
			TOLUENE	35,815	0	0	35,815	35,724	18,321	16,195
	Summary for 'Facility' = BOEING COMMERCIAL AIRPLANE GROUP - RENTON			98,943	0	0	98,943		195,36	
KING	BOEING SPACE CENTER, KENT	KENT	CHROMIUM	0	0	0	0		4,964	
			NITRATE COMPOUNDS	0	0	0	0	0	40,491	67,970
			NITRIC ACID	61	0	0	61	130	1,546	15,943
	Summary for 'Facility' = BOEING SPACE CENTER, KENT			61	0	0	61		47,001	
KING	BP WEST COAST PRODUCTS CO - SEATTLE TERMINAL	SEATTLE	1,2,4-TRIMETHYLBENZENE	197	0	0	197	195	166	166
			BENZENE	350	0	0	350	310	103	104
			ETHYLBENZENE	150	0	0	150	1,035	2	45
			LEAD	0	0	0	0		0	
			MERCURY COMPOUNDS	0	0	0	0		0	
			N-HEXANE	835	0	0	835	725	83	83
			POLYCYCLIC AROMATIC COMPOUNDS	0	0	0	0	0	0	0
			TOLUENE	1,128	0	0	1,128	1,035	496	496
			XYLENE (MIXED ISOMERS)	855	0	0	855	810	208	208
	Summary for 'Facility' = BP WEST COAST PRODUCTS CO - SEATTLE TERMINAL			3,515	0	0	3,515		1,058	

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
KING	BURLINGTON ENVIRONMENTAL INC.	SEATTLE	ETHYLENE GLYCOL	0	0	0	0	0	170,666	169,534
			LEAD COMPOUNDS	0	0	0	0	0	424,527	26,510
			MERCURY COMPOUNDS	0	0	0	0	0	1,634	9,558
			NITRATE COMPOUNDS	0	0	0	0	0	45,679	2,134
	Summary for 'Facility' = BURLINGTON ENVIRONMENTAL INC.			0	0	0	0		642,50	
KING	BURLINGTON ENVIRONMENTAL INC.	KENT	LEAD COMPOUNDS	0	0	0	0	0	177,316	209,585
			MERCURY COMPOUNDS	0	0	0	0		18,154	
	Summary for 'Facility' = BURLINGTON ENVIRONMENTAL INC.			0	0	0	0		195,47	
KING	CIRCUIT SERVICES WORLDWIDE LLC	BELLEVUE	COPPER	1	0	0	1	1	26,908	65,736
			LEAD	0	0	0	0		4,232	
	Summary for 'Facility' = CIRCUIT SERVICES WORLDWIDE LLC			1	0	0	1		31,140	
KING	DARIGOLD-ISSAQUAH	ISSAQUAH	NITRIC ACID	10	0	0	10	0	2,130	761
KING	DARIGOLD-RAINIER	SEATTLE	AMMONIA	3,924	0	0	3,924	1,755	35,317	15,795
			NITRIC ACID	10	0	0	10		3,802	
	Summary for 'Facility' = DARIGOLD-RAINIER			3,934	0	0	3,934		39,119	
KING	DAVIS WIRE CORP.	KENT	LEAD	0	0	0	0	0	112	500
KING	DUWAMISH SHIPYARD, INC	SEATTLE	N-BUTYL ALCOHOL	11,018	0	0	11,018		0	
			XYLENE (MIXED ISOMERS)	15,965	0	0	15,965	16,131	0	0
	Summary for 'Facility' = DUWAMISH SHIPYARD, INC			26,983	0	0	26,983		0	
KING	DYNO BATTERY INC.	SEATTLE	LEAD	10	0	0	10	9	0	0
KING	ENGINEERED POLYMER SOLUTIONS, INC. D/B/A VALSPAR COATINGS	SEATTLE	CERTAIN GLYCOL ETHERS	250	0	0	250	500	250	250
			ETHYLBENZENE	250	0	0	250	500	1,000	1,250
			METHANOL	3,984	0	0	3,984	500	1,500	1,250
			METHYL ETHYL KETONE	1,839	0	0	1,839	500	1,500	1,250
			METHYL ISOBUTYL KETONE	500	0	0	500	500	1,500	1,250
			N-BUTYL ALCOHOL	500	0	0	500	1,325	2,333	1,750
			TOLUENE	750	0	0	750	1,593	3,830	4,569

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
KING	ENGINEERED POLYMER SOLUTIONS, INC. D/B/A VALSPAR COATINGS	SEATTLE	XYLENE (MIXED ISOMERS)	750	0	0	750	3,022	6,526	6,253
Summary for 'Facility' = ENGINEERED POLYMER SOLUTIONS, INC. D/B/A VALSPAR COATINGS				8,823	0	0	8,823		18,439	
KING	EQUILON SEATTLE LUBRICANTS PLANT	SEATTLE	1,2,4-TRIMETHYLBENZENE	0	0	0	0	0	0	0
			BENZENE	0	0	0	0	0	0	0
			BENZO(G,H,I)PERYLENE	0	0	0	0	0	0	0
			ETHYLBENZENE	250	0	0	250	250	0	0
			LEAD	0	0	5	5		0	
			N-HEXANE	0	0	0	0	0	0	0
			POLYCYCLIC AROMATIC COMPOUNDS	0	0	0	0	0	0	0
			TOLUENE	222	0	0	222	0	0	0
			XYLENE (MIXED ISOMERS)	356	0	0	356	250	0	0
			ZINC COMPOUNDS	0	0	5	5	5	0	0
Summary for 'Facility' = EQUILON SEATTLE LUBRICANTS PLANT				828	0	10	838		0	
KING	EQUILON SEATTLE TERMINAL	SEATTLE	1,2,4-TRIMETHYLBENZENE	500	0	0	500	500	500	0
			BENZENE	500	0	0	500	500	0	0
			BENZO(G,H,I)PERYLENE	0	0	0	0	0	0	0
			ETHYLBENZENE	500	0	0	500	500	0	0
			LEAD COMPOUNDS	0	0	3	3		1,091	
			N-HEXANE	500	0	0	500	500	500	0
			POLYCYCLIC AROMATIC COMPOUNDS	0	0	0	0	4	43	0
			TOLUENE	1,000	0	0	1,000	500	0	250
			XYLENE (MIXED ISOMERS)	500	0	0	500	500	250	0
			ZINC COMPOUNDS	0	0	5	5	1,250	5	0
Summary for 'Facility' = EQUILON SEATTLE TERMINAL				3,500	0	8	3,508		2,389	
KING	ETNW CORP	REDMOND	LEAD	0	0	0	0		15,000	
KING	EXOTIC METALS FORMING CO.	KENT	NITRIC ACID	50	0	0	50	250	36,808	25,000
KING	FARWEST PAINT MFG. CO.	TUKWILA	LEAD COMPOUNDS	2	0	0	2		0	
			TOLUENE	500	0	0	500		0	

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
KING	FARWEST PAINT MFG. CO.	TUKWILA	XYLENE (MIXED ISOMERS)	500	0	0	500		0	
	Summary for 'Facility' = FARWEST PAINT MFG. CO.			1,002	0	0	1,002		0	
KING	FMC FOOD TECH (STEIN-DSI)	REDMOND	LEAD	0	0	0	0		0	
KING	FOAMEX LP - KENT	KENT	TOLUENE DIISOCYANATE (MIXED ISOMERS)	380	0	0	380	364	300	0
KING	FORMULA CORP.	SEATTLE	CERTAIN GLYCOL ETHERS	750	0	0	750	750	750	750
KING	GACO WESTERN, INC.	TUKWILA	METHYL ISOBUTYL KETONE	807	0	0	807	1,176	1,369	648
			TETRACHLOROETHYLENE	897	0	0	897	73	201	500
			TOLUENE	641	0	0	641	1,072	4,025	2,345
			XYLENE (MIXED ISOMERS)	2,491	0	0	2,491	3,490	309	750
	Summary for 'Facility' = GACO WESTERN, INC.			4,836	0	0	4,836		5,904	
KING	GANIE INDUSTRIES (SOUTH CAMPUS)	REDMOND	CERTAIN GLYCOL ETHERS	15,607	0	0	15,607	9,461	1,562	5,880
KING	GENERAL DYNAMICS OTS (AEROSPACE) INC.	REDMOND	LEAD	0	0	0	0		156	
KING	GLACIER NORTHWEST, INC. EAST MARGINAL WAY PLANT	SEATTLE	LEAD COMPOUNDS	0	0	0	0		53	
			NITRATE COMPOUNDS	0	0	250	250	500	505	255
	Summary for 'Facility' = GLACIER NORTHWEST, INC. EAST MARGINAL WAY PLANT			0	0	250	250		558	
KING	GLACIER NORTHWEST, INC. KENMORE READY-MIX PLANT	KENMORE	LEAD COMPOUNDS	0	0	0	0		0	
KING	GLACIER NORTHWEST, INC. SNOQUALMIE PLANT	SNOQUALMIE	LEAD COMPOUNDS	0	0	0	0		5	
KING	GLACIER NORTHWEST, INC. WEST MARGINAL WAY PLANT	SEATTLE	LEAD COMPOUNDS	0	0	0	0		2	
KING	HECKETT MULTISERV PLANT 65	SEATTLE	MANGANESE COMPOUNDS	174	0	0	174		0	
KING	HEXCEL CORPORATION	KENT	TETRABROMOBISPHENOL A	0	0	0	0		637	
KING	HYTEK FINISHES CO.	KENT	CHROMIUM COMPOUNDS	1	0	0	1	1	3,000	5,105
			LEAD	0	0	0	0		2,404	
			NITRATE COMPOUNDS	0	0	0	0	0	22,064	25,280
			NITRIC ACID	10	0	0	10	10	500	0
	Summary for 'Facility' = HYTEK FINISHES CO.			11	0	0	11		27,968	
KING	IMMUNEX CORP.	SEATTLE	ACETONITRILE	0	0	0	0	0	13,891	11,528

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
KING	INDUSTRIAL PLATING CORP.	SEATTLE	COPPER COMPOUNDS	264	0	0	264	210	922	433
			LEAD COMPOUNDS	0	0	0	0		57	
			ZINC COMPOUNDS	325	0	0	325	260	2,871	1,272
	Summary for 'Facility' = INDUSTRIAL PLATING CORP.			589	0	0	589		3,850	
KING	INTERPAINT	REDMOND	LEAD	0	0	0	0		35	
KING	JOHNS MANVILLE INTERNATIONAL	KENT	1,1-DICHLORO-1- FLUOROETHANE	19,254	0	0	19,254	30,353	0	0
			CHLORODIFLUOROMETHANE	3,503	0	0	3,503	4,178	0	0
			DIISOCYANATES	40	0	0	40	46	0	0
	Summary for 'Facility' = JOHNS MANVILLE INTERNATIONAL			22,797	0	0	22,797		0	
KING	JORGENSEN FORGE CORP.	TUKWILA	ALUMINUM (FUME OR DUST)	0	0	0	0	0	98,217	136,734
			CHROMIUM	0	0	0	0	0	27,053	35,797
			LEAD	0	0	0	0		243	
			MANGANESE	0	0	0	0	0	385,599	539,910
	Summary for 'Facility' = JORGENSEN FORGE CORP.			0	0	0	0		511,11	
KING	KENWORTH TRUCK CO.	RENTON	ETHYLENE GLYCOL	13	0	0	13	49	12,000	25,700
KING	KISTLER MORSE	BOTHELL	LEAD	0	0	0	0		202	
KING	LAFARGE NORTH AMERICA	SEATTLE	BENZO(G,H,I)PERYLENE	0	0	0	0		0	
			CHROMIUM	0	0	0	0		0	
			LEAD COMPOUNDS	5	0	0	5		0	
			MERCURY COMPOUNDS	73	0	0	73		0	
			POLYCYCLIC AROMATIC COMPOUNDS	4	0	0	4		0	
	Summary for 'Facility' = LAFARGE NORTH AMERICA			82	0	0	82		0	
KING	MACHINISTS DSR INC DBA PUGET SOUND COATINGS	SEATTLE	METHYL ETHYL KETONE	18,004	0	0	18,004	18,004	250	250
			XYLENE (MIXED ISOMERS)	21,769	0	0	21,769	21,769	0	0
	Summary for 'Facility' = MACHINISTS DSR INC DBA PUGET SOUND COATINGS			39,773	0	0	39,773		250	
KING	MACKIE DESIGNS	WOODINVILLE	LEAD	0	0	0	0		3,308	
KING	MODINE AFTERMARKET HOLDINGS, INC.	SEATTLE	COPPER	1	0	0	1	1	20,332	27,116
			LEAD	1	0	0	1		5,847	

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
	Summary for 'Facility' = MODINE AFTERMARKET HOLDINGS, INC.			2	0	0	2		26,179	
KING	NEWCASTLE BRICK PLANT	RENTON	HYDROGEN FLUORIDE	49,616	0	0	49,616	52,250	0	0
KING	NON-FERROUS METALS INC.	SEATTLE	LEAD	31	0	0	31	255	0	0
KING	PACCAR - SEATTLE	TUKWILA	ETHYLENE GLYCOL	5	0	0	5	1	1,704	2,452
KING	PHILIPS ORAL HEALTHCARE INC	SNOQUALMIE	COPPER	0	52	0	52	52	52	52
			LEAD COMPOUNDS	0	0	0	0		2,452	
	Summary for 'Facility' = PHILIPS ORAL HEALTHCARE INC			0	52	0	52		2,504	
KING	PRAXAIR SPECIALTY CERAMICS	WOODINVILLE	LEAD COMPOUNDS	6	0	0	6		17	
			MANGANESE COMPOUNDS	28	0	0	28		1,547	
	Summary for 'Facility' = PRAXAIR SPECIALTY CERAMICS			34	0	0	34		1,564	
KING	PROTECTIVE COATINGS, INC	KENT	METHYL ETHYL KETONE	14,850	0	5	14,855	10,260	18,005	6,605
			NITRIC ACID	1,000	0	5	1,005	1,005	5	5
			TRICHLOROETHYLENE	15,180	0	5	15,185	15,345	5	1,805
	Summary for 'Facility' = PROTECTIVE COATINGS, INC			31,030	0	15	31,045		18,015	
KING	PROTOTRON CIRCUITS INC	REDMOND	LEAD	0	0	0	0		0	
KING	QUALITEL CORPORATION	REDMOND	LEAD	1	50	0	51		55	
KING	REXAM BEVERAGE CAN COMPANY RE: KENT, WA FACILITY	KENT	CERTAIN GLYCOL ETHERS	165,374	0	0	165,374	161,967	1,631	1,163
			HYDROGEN FLUORIDE	26	0	0	26	29	0	0
			MANGANESE	0	0	0	0	0	28	55
			N-BUTYL ALCOHOL	140,310	0	0	140,310	135,958	504	360
	Summary for 'Facility' = REXAM BEVERAGE CAN COMPANY RE: KENT, WA FACILITY			305,71	0	0	305,710		2,163	
KING	RUDD COMPANY, INC.	SEATTLE	CERTAIN GLYCOL ETHERS	1,120	0	0	1,120	2,275	5,475	250
			DI(2-ETHYLHEXYL) PHTHALATE	18	0	0	18	22	0	0
			ETHYLBENZENE	595	0	0	595	1,500	5,475	300
			METHANOL	665	0	0	665	1,300	1,530	0
			METHYL ETHYL KETONE	1,115	0	0	1,115	2,300	22,725	1,100
			METHYL ISOBUTYL KETONE	2,840	0	0	2,840	6,100	101,800	4,600
			N-BUTYL ALCOHOL	2,040	0	0	2,040	4,000	4,455	400

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
KING	RUDD COMPANY, INC.	SEATTLE	TOLUENE	4,405	0	0	4,405	8,200	96,000	30,500
			XYLENE (MIXED ISOMERS)	2,550	0	0	2,550	6,100	31,895	4,400
	Summary for 'Facility' = RUDD COMPANY, INC.			15,348	0	0	15,348		269,35	
KING	SAINT GOBAIN CONTAINERS	SEATTLE	LEAD COMPOUNDS	409	0	0	409		7	
KING	SCHIPPERS & CREW INC	SEATTLE	LEAD COMPOUNDS	1	0	0	1		1,254	
KING	SEATTLE POTTERY SUPPLY	SEATTLE	LEAD COMPOUNDS	0	0	0	0		0	
KING	SOUND PROPELLER SERVICES INC.	SEATTLE	CHROMIUM	250	0	0	250	250	250	250
			NICKEL	250	0	0	250	250	250	250
	Summary for 'Facility' = SOUND PROPELLER SERVICES INC.			500	0	0	500		500	
KING	TALLY PRINTER CO	KENT	LEAD	0	0	0	0		255	
KING	TODD PACIFIC SHIPYARDS CORP.	SEATTLE	N-BUTYL ALCOHOL	13,086	0	0	13,086	16,872	177	214
KING	TOSCO RENTON TERMINAL	RENTON	1,2,4-TRIMETHYLBENZENE	41	0	0	41	36	150	0
			BENZENE	300	0	0	300	370	87	0
			BENZO(G,H,I)PERYLENE	0	0	0	0	0	0	0
			CYCLOHEXANE	650	0	0	650	790	193	0
			ETHYLBENZENE	77	0	0	77	81	150	0
			NAPHTHALENE	10	0	0	10	6	0	1
			N-HEXANE	1,000	0	0	1,000	1,220	193	0
			POLYCYCLIC AROMATIC COMPOUNDS	0	0	0	0	0	0	0
			TOLUENE	280	0	0	280	320	246	0
			XYLENE (MIXED ISOMERS)	168	0	0	168	170	360	0
	Summary for 'Facility' = TOSCO RENTON TERMINAL			2,526	0	0	2,526		1,379	
KING	TRANSPRO INC.	SEATTLE	LEAD	12	0	0	12		1,890	
KING	TRIM SYSTEMS	SEATTLE	DICHLOROMETHANE	3,865	0	0	3,865	7,951	1,135	203
			DIISOCYANATES	0	0	0	0	0	0	0
			ETHYLENE GLYCOL	0	0	0	0	0	0	0
	Summary for 'Facility' = TRIM SYSTEMS			3,865	0	0	3,865		1,135	
KING	TTM TECHNOLOGIES INC.	REDMOND	AMMONIA	1,708	0	0	1,708	9,139	60,005	95,696
			COPPER	0	0	0	0	0	214,384	288,621

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
KING	TTM TECHNOLOGIES INC.	REDMOND	FORMALDEHYDE	5,274	0	0	5,274	14,230	0	0
			LEAD	0	0	0	0	0	6,002	7,834
			NITRATE COMPOUNDS	0	0	0	0	0	20,156	25,147
			NITRIC ACID	0	0	0	0	0	0	0
	Summary for 'Facility' = TTM TECHNOLOGIES INC.			6,982	0	0	6,982		300,54	
KING	UNIVERSAL MFG. CORP.	WOODINVILLE	COPPER	2	0	0	2	2	21,837	21,390
			LEAD COMPOUNDS	0	0	0	0		2,839	
	Summary for 'Facility' = UNIVERSAL MFG. CORP.			2	0	0	2		24,676	
KING	USCG INTEGRATED SUPPORT COMMAND SEATTLE	SEATTLE	LEAD	0	0	2	2		2,281	
KING	VIOX CORPORATION	SEATTLE	LEAD COMPOUNDS	81	0	0	81	238	2,641	788
KING	VOPAK USA INC.	KENT	CERTAIN GLYCOL ETHERS	31	0	0	31		0	
			DI(2-ETHYLHEXYL) PHTHALATE	66	0	0	66	72	0	1,474
			METHANOL	2,571	0	0	2,571	1,819	0	581
			METHYL ETHYL KETONE	1,197	0	0	1,197	774	0	1,865
	Summary for 'Facility' = VOPAK USA INC.			3,865	0	0	3,865		0	
KING	WASSER HIGH-TECH COATINGS	KENT	ZINC (FUME OR DUST)	30	0	0	30	2,700	537	2,800
KING	WESCOR GRAPHICS CORP	SEATTLE	N-BUTYL ALCOHOL	1,140	0	0	1,140	2,720	2,558	3,517
			TETRACHLOROETHYLENE	14,600	0	0	14,600	15,520	28,960	39,682
	Summary for 'Facility' = WESCOR GRAPHICS CORP			15,740	0	0	15,740		31,518	
KING	WESTERN PNEUMATIC TUBE COMPANY	KIRKLAND	HYDROGEN FLUORIDE	0	0	0	0	0	0	0
			NITRATE COMPOUNDS	0	0	0	0	0	34,527	41,753
			NITRIC ACID	0	0	0	0	0	0	0
			TRICHLOROETHYLENE	38,788	0	0	38,788	32,761	6,000	5,623
	Summary for 'Facility' = WESTERN PNEUMATIC TUBE COMPANY			38,788	0	0	38,788		40,527	
KING	WEYERHAEUSER ENUMCLAW	ENUMCLAW	LEAD	0	0	0	0		0	
	Summary for 'County' = KING			<u>1,230,750</u>	<u>102</u>	<u>285</u>	<u>1,231,137</u>		<u>8,926.20</u>	
KITSAP	U.S. DOD, U.S. NAVY, PUGET SOUND NAVAL SHIPYARD	BREMERTON	CHROMIUM	103	0	58	161	11,783	2,764	14,636
			COPPER	158	28,948	510	29,616	19,287	113,982	34,235

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
KITSAP	U.S. DOD, U.S. NAVY, PUGET SOUND NAVAL SHIPYARD	BREMERTON	COPPER COMPOUNDS	5,427	0	510	5,937	15,014	19,722	26,102
			ETHYLENE GLYCOL	475	0	0	475	47,314	52,823	34,160
			LEAD	2	17,468	589	18,059	24,714	87,992	40,485
			MANGANESE	146	0	49	195	354	3,583	3,328
			N-BUTYL ALCOHOL	25,894	0	0	25,894	24,640	17,262	16,427
			NICKEL	239	6,987	804	8,030	20,068	36,471	32,776
			XYLENE (MIXED ISOMERS)	8,313	0	1	8,314	18,674	5,547	13,364
			ZINC COMPOUNDS	2,523	0	2,135	4,658	17,903	38,288	40,978
	Summary for 'Facility' = U.S. DOD, U.S. NAVY, PUGET SOUND NAVAL SHIPYARD			43,280	53,403	4,656	101,339		378,43	
KITSAP	U.S. EPA FUND-LEAD SUPERFUND SITE/WYCKOFF/EAGLE HARBOR	BAINBRIDGE IS.	CREOSOTE	0	0	0	0		53,429	
			PENTACHLOROPHENOL	0	0	0	0		3,532	
			POLYCYCLIC AROMATIC COMPOUNDS	0	0	0	0		1,069	
	Summary for 'Facility' = U.S. EPA FUND-LEAD SUPERFUND SITE/WYCKOFF/EAGLE HARBOR			0	0	0	0		58,030	
	Summary for 'County' = KITSAP			43,280	53,403	4,656	101,339		436,464	
KLICKITAT	GOLDENDALE ALUMINUM COMPANY	GOLDENDALE	BENZO(G,H,I)PERYLENE	114	0	0	114	1,100	0	0
			CARBONYL SULFIDE	9,000	0	0	9,000	90,000	0	0
			HYDROGEN FLUORIDE	3,561	0	0	3,561	52,800	0	0
			LEAD	359	0	0	359		0	
			POLYCYCLIC AROMATIC COMPOUNDS	652	0	0	652	660	0	0
	Summary for 'Facility' = GOLDENDALE ALUMINUM COMPANY			13,686	0	0	13,686		0	
	Summary for 'County' = KLICKITAT			13,686	0	0	13,686		0	
LEWIS	DARIGOLD - CHEHALIS	CHEHALIS	NITRATE COMPOUNDS	0	0	0	0	0	0	0
			NITRIC ACID	0	0	0	0	0	0	0
	Summary for 'Facility' = DARIGOLD - CHEHALIS			0	0	0	0		0	
LEWIS	FOSECO METALLURGICAL INC	CHEHALIS	ALUMINUM (FUME OR DUST)	481	0	0	481	457	10	0
			LEAD	0	0	0	0		0	
	Summary for 'Facility' = FOSECO METALLURGICAL INC			481	0	0	481		10	
LEWIS	HAMPTON LUMBER MILLS MORTON	MORTON	LEAD COMPOUNDS	8	9	0	17		9	

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
LEWIS	HAMPTON LUMBER MILLS PACKWOOD	PACKWOOD	LEAD COMPOUNDS	5	0	0	5		0	
LEWIS	HAMPTON LUMBER MILLS RANDLE	RANDLE	LEAD COMPOUNDS	9	18	0	27		18	
LEWIS	QUALI-CAST FOUNDRY, INC.	CHEHALIS	CHROMIUM	250	0	0	250	250	250	250
			MANGANESE	250	0	0	250	5	250	250
			NICKEL	250	0	0	250	250	250	250
Summary for 'Facility' = QUALI-CAST FOUNDRY, INC.				750	0	0	750		750	
LEWIS	TRANSALTA CENTRALIA GENERATION / MINING	CENTRALIA	ARSENIC COMPOUNDS	3	15,128	11	15,142	4,690	225	326
			BARIUM COMPOUNDS	24	2,367,909	386	2,368,319	2,272,488	102,348	149,792
			CHROMIUM COMPOUNDS	606	164,999	7	165,612	78,759	3,417	4,996
			COBALT COMPOUNDS	12	106,618	14	106,644	51,414	2,343	3,427
			COPPER COMPOUNDS	3	146,239	14	146,256	144,685	6,061	8,878
			HYDROCHLORIC ACID	183,753	0	0	183,753	189,921	0	0
			HYDROGEN FLUORIDE	183,753	0	0	183,753	406,182	0	0
			LEAD COMPOUNDS	5	56,126	5	56,135	13,199	389	574
			MANGANESE COMPOUNDS	538	933,680	89	934,307	393,657	18,107	25,867
			MERCURY	266	146	0	412	437	0	1
			NICKEL COMPOUNDS	448	74,837	30	75,315	36,713	1,529	2,238
			SULFURIC ACID	153,714	0	0	153,714	192,009	0	0
			VANADIUM COMPOUNDS	514	421,812	81	422,407	405,971	18,244	26,250
			ZINC COMPOUNDS	2	111,198	18	111,218	117,548	4,274	6,260
Summary for 'Facility' = TRANSALTA CENTRALIA GENERATION / MINING				523,64	4,398,6	655	4,922,98		156,93	
Summary for 'County' = LEWIS				<u>524,894</u>	<u>4,398,720</u>	<u>655</u>	<u>4,924,268</u>		<u>157,724</u>	
MASON	SIMPSON TIMBER COMPANY, DAYTON OPERATIONS	SHELTON	LEAD	0	0	0	0		0	
MASON	SIMPSON TIMBER COMPANY, NW TIMBER & WOOD PRODUCTS	SHELTON	LEAD COMPOUNDS	4	0	0	4		261	
Summary for 'County' = MASON				<u>4</u>	<u>0</u>	<u>0</u>	<u>4</u>		<u>261</u>	
PACIFIC	WEYERHAEUSER RAYMOND SAWMILL	RAYMOND	LEAD COMPOUNDS	16	0	0	16		193	
Summary for 'County' = PACIFIC				<u>16</u>	<u>0</u>	<u>0</u>	<u>16</u>		<u>193</u>	

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
PEND OREILLE	PONDERAY NEWSPRINT COMPANY	USK	LEAD	1	0	9	10		0	
			METHANOL	34,605	0	11	34,616		0	
			NITRATE COMPOUNDS	0	0	182,000	182,000	226,000	0	0
Summary for 'Facility' = PONDERAY NEWSPRINT COMPANY				34,606	0	182,02	216,626		0	
Summary for 'County' = PEND OREILLE				<u>34,606</u>	<u>0</u>	<u>182,020</u>	<u>216,626</u>		<u>0</u>	
PIERCE	ACE TANK & EQUIPMENT	TACOMA	STYRENE	1,790	0	0	1,790	3,041	0	0
PIERCE	AMERICAN REINFORCED PLASTICS INC.	TACOMA	STYRENE	14,699	0	0	14,699	16,501	5	5
PIERCE	ATLAS FOUNDRY AND MACHINE CO.	TACOMA	CHROMIUM	255	0	0	255	255	10,145	7,355
			COPPER	10	0	5	15	30	1,005	1,005
			LEAD	1	0	1	2		9	
			MANGANESE	255	0	5	260	275	1,851	1,655
			MOLYBDENUM TRIOXIDE	0	0	0	0	275	0	1,455
			NICKEL	255	0	5	260	275	4,432	4,155
Summary for 'Facility' = ATLAS FOUNDRY AND MACHINE CO.				776	0	16	792		17,442	
PIERCE	BCAG - FREDERICKSON	PUYALLUP	COPPER	0	0	0	0	0	409,797	249,511
			NITRIC ACID	0	0	0	0	110	356,004	216,031
			TOLUENE	24,170	0	0	24,170	17,210	827	3,694
Summary for 'Facility' = BCAG - FREDERICKSON				24,170	0	0	24,170		766,62	
PIERCE	BURLINGTON ENVIRONMENTAL INC	TACOMA	LEAD COMPOUNDS	0	0	0	0		2,104	
			MERCURY COMPOUNDS	0	0	0	0	0	78	131
			NITRATE COMPOUNDS	0	0	0	0	0	59,061	62,778
			NITRIC ACID	0	0	0	0	0	0	0
Summary for 'Facility' = BURLINGTON ENVIRONMENTAL INC				0	0	0	0		61,243	
PIERCE	CASCADE POLE & LUMBER COMPANY	TACOMA	CREOSOTE	955	0	126	1,081	2,775	164	5,686
			HEXACHLOROBENZENE	0	0	0	0	0	0	0
			POLYCYCLIC AROMATIC COMPOUNDS	1	0	12	13	121	16	552
Summary for 'Facility' = CASCADE POLE & LUMBER COMPANY				956	0	138	1,094		180	

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
PIERCE	CITY OF TACOMA STEAM PLANT NO 2	TACOMA	BARIUM COMPOUNDS	6	2	0	8	8	10,254	2,949
			BENZO(G,H,I)PERYLENE	0	0	0	0	0	0	0
			HYDROCHLORIC ACID	100,299	0	0	100,299	152,108	0	0
			LEAD COMPOUNDS	9	1	0	10	12	18,050	5,243
			MANGANESE COMPOUNDS	30	5	0	35	45	108,581	14,820
			MERCURY COMPOUNDS	35	0	0	35	49	11	5
			POLYCYCLIC AROMATIC COMPOUNDS	1	0	0	2	2	4	0
			ZINC COMPOUNDS	34	1	0	35	49	44,156	18,060
	Summary for 'Facility' = CITY OF TACOMA STEAM PLANT NO 2			100,41	9	0	100,424		181,05	
PIERCE	DYNEA OVERLAYS INC. - TACOMA	TACOMA	FORMALDEHYDE	11,900	0	0	11,900	7,800	6,805	5,353
			METHANOL	57,350	0	0	57,350	71,250	4,847	3,834
			PHENOL	7,300	0	0	7,300	8,600	2,027	1,702
	Summary for 'Facility' = DYNEA OVERLAYS INC. - TACOMA			76,550	0	0	76,550		13,679	
PIERCE	EMERALD SERVICES, INC.	TACOMA	1,1,1-TRICHLOROETHANE	2,526	0	0	2,526		36,097	
			1,2-DICHLOROETHANE	2,692	0	0	2,692		10	
			ACETONITRILE	6,424	0	0	6,424		150	
			BENZENE	935	0	0	935		24	
			CHLOROFORM	3,527	0	0	3,527		30	
			CRESOL (MIXED ISOMERS)	1,428	0	0	1,428		8	
			CYCLOHEXANE	3,900	0	0	3,900		21	
			DICHLOROMETHANE	4,231	0	0	4,231		37,144	
			ETHYLBENZENE	3,427	0	0	3,427		149,287	
			ETHYLENE GLYCOL	64,149	0	0	64,149	747	161	21,069
			LEAD COMPOUNDS	1,410	0	0	1,410		530	
			METHANOL	13,995	0	0	13,995	22,949	136,553	233,570
			METHYL ETHYL KETONE	32,033	0	0	32,033	13,485	300,449	152,645
			METHYL ISOBUTYL KETONE	11,725	0	0	11,725	11,123	276,928	118,947
			METHYL TERT-BUTYL ETHER	2,694	0	0	2,694		27	
			N,N-DIMETHYLFORMAMIDE	4,575	0	0	4,575		172	

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
PIERCE	EMERALD SERVICES, INC.	TACOMA	N-BUTYL ALCOHOL	3,272	0	0	3,272	4,540	139,176	54,141
			N-HEXANE	4,418	0	0	4,418	2,924	78	50,759
			N-METHYL-2-PYRROLIDONE	10,682	0	0	10,682	4,347	88	66,692
			PHENOL	2,233	0	0	2,233		12	
			PYRIDINE	4,907	0	0	4,907		16	
			TETRACHLOROETHYLENE	732	0	0	732		7	
			TOLUENE	59,990	0	0	59,990	51,736	769,747	517,665
			TRICHLOROETHYLENE	2,753	0	0	2,753		39,360	
			XYLENE (MIXED ISOMERS)	21,369	0	0	21,369	13,627	764,211	151,846
			Summary for 'Facility' = EMERALD SERVICES, INC.				270,02	0	0	270,027
PIERCE	GENERAL PLASTICS MFG. CO.	TACOMA	DICHLOROMETHANE	13,891	0	0	13,891	17,167	1,094	602
			DIISOCYANATES	5	0	0	5	5	800	0
Summary for 'Facility' = GENERAL PLASTICS MFG. CO.				13,896	0	0	13,896		1,894	
PIERCE	GIRARD CUSTOM COATERS, INC.	TACOMA	XYLENE (MIXED ISOMERS)	31,962	0	0	31,962	40,356	0	4,484
PIERCE	GLACIER NORTHWEST, INC. DUPONT PLANT	DUPONT	LEAD COMPOUNDS	0	0	0	0		8	
PIERCE	GLACIER NORTHWEST, INC. TACOMA PLANT	TACOMA	LEAD COMPOUNDS	0	0	0	0		21	
PIERCE	GRAYMONT WESTERN U.S. INC. TACOMA	TACOMA	LEAD	0	0	0	0		0	
Summary for 'Facility' = GRAYMONT WESTERN U.S. INC. TACOMA				2	0	0	2		0	
PIERCE	JCI JONES CHEMICALS, INC.	TACOMA	CHLORINE	1	0	0	1	3	0	0
PIERCE	JEFFERSON SMURFIT CORP	TACOMA	BENZO(G,H,I)PERYLENE	0	0	0	0	0	0	0
			LEAD COMPOUNDS	1	77	0	78		0	
			POLYCYCLIC AROMATIC COMPOUNDS	0	0	0	0	0	0	0
Summary for 'Facility' = JEFFERSON SMURFIT CORP				1	77	0	78		0	
PIERCE	KAISER ALUMINUM, TACOMA WORKS	TACOMA	BENZO(G,H,I)PERYLENE	0	0	0	0	70	1	815
			LEAD	0	0	0	0		2	
			POLYCYCLIC AROMATIC COMPOUNDS	1	0	0	1	5,364	100	5,981
Summary for 'Facility' = KAISER ALUMINUM, TACOMA WORKS				1	0	0	1		102	

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
PIERCE	LIANGA PACIFIC, INC.	TACOMA	XYLENE (MIXED ISOMERS)	14,870	0	0	14,870	11,080	0	1,300
PIERCE	LP TACOMA STUDMILL	TACOMA	LEAD	0	0	0	0		0	
PIERCE	MONIERLIFETILE LLC	LAKEWOOD	LEAD	1	0	0	1		0	
PIERCE	NALLEY FINE FOODS	TACOMA	AMMONIA	0	0	0	0	0	16,403	12,235
PIERCE	NORTHWEST ETCH TECHNOLOGY INC	TACOMA	HYDROCHLORIC ACID	0	0	0	0	0	1,235	1,561
PIERCE	PARKER PAINT MFG. CO. INC.	TACOMA	ETHYLENE GLYCOL	2,567	0	0	2,567	2,282	57	0
			TOLUENE	306	0	0	306	306	0	0
			XYLENE (MIXED ISOMERS)	1,124	0	0	1,124	1,278	5,715	2,808
	Summary for 'Facility' = PARKER PAINT MFG. CO. INC.			3,997	0	0	3,997		5,772	
PIERCE	PIONEER AMERICAS, LLC	TACOMA	CHLORINE	160	0	0	160	237	0	0
			DICHLORODIFLUOROMETHANE (CFC-12)	12,000	0	0	12,000	11,000	0	0
			HYDROCHLORIC ACID	169	0	0	169	164	0	0
	Summary for 'Facility' = PIONEER AMERICAS, LLC			12,329	0	0	12,329		0	
PIERCE	PIONEER AMERICAS, LLC BLEACH PLANT	TACOMA	CHLORINE	3	0	0	3	4	0	0
PIERCE	RAINIER BALLISTICS	TACOMA	ANTIMONY	17	0	0	17	22	112	102
			COPPER	15	0	0	15	11	7,705	6,668
			LEAD COMPOUNDS	563	0	0	563	685	3,563	3,176
	Summary for 'Facility' = RAINIER BALLISTICS			595	0	0	595		11,380	
PIERCE	RANGE FACILITY FOR FORT LEWIS	FORT LEWIS	COPPER	0	72,231	0	72,231		0	
			LEAD COMPOUNDS	235	82,726	0	82,961		0	
	Summary for 'Facility' = RANGE FACILITY FOR FORT LEWIS			235	154,957	0	155,192		0	
PIERCE	RAVEN INDUSTRIES, INC.	TACOMA	STYRENE	19,561	0	0	19,561	57,429	1,600	7,750
PIERCE	SIMPSON TACOMA KRAFT CO.	TACOMA	ACETALDEHYDE	31,100	0	680	31,780	44,404	0	0
			AMMONIA	101,850	0	10,700	112,550	116,800	0	0
			BARIUM COMPOUNDS	39	0	3,920	3,959	19,235	22	19
			CATECHOL	0	0	0	0	1	0	0
			CERTAIN GLYCOL ETHERS	1,950	0	40	1,990	3,314	0	0
			CHLORINE	1,058	0	0	1,058	49	0	0

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
PIERCE	SIMPSON TACOMA KRAFT CO.	TACOMA	CHLORINE DIOXIDE	2,845	0	0	2,845	675	0	0
			FORMALDEHYDE	13,307	0	5,000	18,307	19,209	0	0
			FORMIC ACID	0	0	2,930	2,930	2,730	0	0
			HYDROCHLORIC ACID	38,200	0	0	38,200	35,900	0	0
			LEAD COMPOUNDS	47	0	140	187		368	
			MANGANESE COMPOUNDS	204	0	22,050	22,254	53,216	112	119
			METHANOL	429,390	0	59,800	489,190	488,900	0	0
			METHYL ETHYL KETONE	4,418	0	1,120	5,538		0	
			PHENOL	21,500	0	0	21,500	20,600	0	0
			POLYCYCLIC AROMATIC COMPOUNDS	23	0	20	43	116	63	130
			SULFURIC ACID	41,400	0	0	41,400	51,300	0	0
			Summary for 'Facility' = SIMPSON TACOMA KRAFT CO.				687,33	0	106,40	793,730
PIERCE	SIMPSON TIMBER CO, COMMENCEMENT BAY OPERATIONS	TACOMA	LEAD	0	0	0	0		0	
PIERCE	SONOCO PRODUCTS CO	SUMNER	LEAD COMPOUNDS	600	0	1	601		0	
PIERCE	SUPERIOR WOOD TREATING	SUMNER	ARSENIC COMPOUNDS	10	0	250	260	10	250	250
			CHROMIUM COMPOUNDS	10	0	250	260	10	250	1,185
			COPPER COMPOUNDS	10	0	5	15	10	250	750
			Summary for 'Facility' = SUPERIOR WOOD TREATING				30	0	505	535
PIERCE	THERMAFIBER, L.L.C	TACOMA	CARBONYL SULFIDE	55,941	0	0	55,941	58,207	0	0
PIERCE	TORAY COMPOSITES (AMERICA)	TACOMA	DIURON	0	0	0	0	0	0	0
			METHANOL	4,550	0	0	4,550	9,300	24,800	47,400
			METHYL ETHYL KETONE	29,900	0	0	29,900	21,000	136,500	123,000
			N-METHYL-2-PYRROLIDONE	7,100	0	0	7,100	7,400	171,000	150,000
			TOLUENE	7,200	0	0	7,200	19,000	54,200	104,300
Summary for 'Facility' = TORAY COMPOSITES (AMERICA)				48,750	0	0	48,750		386,50	
PIERCE	U.S. OIL & REFINING CO.	TACOMA	BENZENE	2,366	0	0	2,366	2,121	500	0
			CYCLOHEXANE	2,902	0	0	2,902	1,607	250	250
			ETHYLBENZENE	622	0	0	622	821	1,000	501

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
PIERCE	U.S. OIL & REFINING CO.	TACOMA	LEAD	7	0	0	7		10	
			NAPHTHALENE	121	0	0	121	128	750	251
			N-HEXANE	7,585	0	0	7,585	4,048	250	0
			POLYCYCLIC AROMATIC COMPOUNDS	0	0	0	0	0	5	2
			TOLUENE	4,652	0	0	4,652	4,699	1,000	501
			XYLENE (MIXED ISOMERS)	3,695	0	0	3,695	4,848	1,250	750
Summary for 'Facility' = U.S. OIL & REFINING CO.				21,950	0	0	21,950		5,015	
PIERCE	U.S.DOD U.S.ARMY FORT LEWIS	FORT LEWIS	ETHYLENE GLYCOL	15	0	0	15	239	55,000	82,923
PIERCE	US G SEATAC PLANT	TACOMA	LEAD	0	0	0	0		0	
PIERCE	USAF MCCHORD AFB	MCCHORD AFB	ETHYLENE GLYCOL	0	0	0	0		17,044	
			LEAD	1	0	0	1		1,281	
Summary for 'Facility' = USAF MCCHORD AFB				1	0	0	1		18,325	
Summary for 'County' = PIERCE				1,401,453	155,044	107,060	1,663,557		4,195,09	
SKAGIT	FIBREX CORP.	BURLINGTON	STYRENE	10,598	0	0	10,598	15,736	0	0
SKAGIT	GENERAL CHEMICAL	ANACORTES	LEAD	0	66	0	66		66	
			MERCURY	0	10	0	10	17	10	17
			SULFURIC ACID	12,579	0	0	12,579	14,862	0	0
Summary for 'Facility' = GENERAL CHEMICAL				12,579	76	0	12,655		76	
SKAGIT	HALLMARK REFINING CORP.	MOUNT VERNON	SILVER	0	0	0	0	0	216,306	153,863
SKAGIT	MARCH POINT COGENERATION CO.	ANACORTES	AMMONIA	5,800	0	0	5,800	1,290	0	0
			ETHYLENE	31	0	0	31	31	0	0
			POLYCYCLIC AROMATIC COMPOUNDS	4	0	0	4		0	
			PROPYLENE	46	0	0	46	46	0	0
Summary for 'Facility' = MARCH POINT COGENERATION CO.				5,881	0	0	5,881		0	
SKAGIT	NORDIC TUG INC.	BURLINGTON	STYRENE	13,425	0	0	13,425		0	
SKAGIT	PUGET SOUND REFINERY PUGET SOUND REFINERY	ANACORTES	1,2,4-TRIMETHYLBENZENE	950	0	0	950	1,045	105	0
			1,3-BUTADIENE	621	0	0	621	530	0	0
			AMMONIA	2,450	0	5,400	7,850	6,014	0	0
			ANTHRACENE	1	0	0	1		1	

COUNTY	Facility	City	Chemical	Air	Land	Water	2001	2000	2001	2000
							Releases	Releases	Transfers	Transfers
SKAGIT	PUGET SOUND REFINERY	ANACORTES	BENZENE	3,900	0	0	3,900	2,950	31	51
	PUGET SOUND REFINERY									
			BENZO(G,H,I)PERYLENE	0	0	1	1	22	7	2
			CARBONYL SULFIDE	690	0	0	690	688	0	0
			CERTAIN GLYCOL ETHERS	41	0	0	41	0	0	0
			CRESOL (MIXED ISOMERS)	550	0	0	550		0	
			CYCLOHEXANE	1,280	0	0	1,280	1,634	0	0
			ETHYLBENZENE	830	0	0	830	1,019	25	30
			ETHYLENE	22,022	0	0	22,022	32,320	0	0
			HYDROCHLORIC ACID	42,000	0	0	42,000		0	
			HYDROGEN CYANIDE	1,700	0	0	1,700		0	
			LEAD COMPOUNDS	108	0	8	116		35	
			MERCURY COMPOUNDS	12	26	1	39		2	
			METHANOL	2	0	0	2		0	
			MOLYBDENUM TRIOXIDE	0	0	0	0	0	54,000	73,000
			NAPHTHALENE	63	0	0	63	15	122	761
			N-HEXANE	7,300	0	0	7,300	5,450	0	0
			NICKEL COMPOUNDS	322	390	110	822	507	7,808	10,142
			PHENANTHRENE	17	0	0	17		0	
			PHENOL	0	0	150	150	226	0	0
			POLYCYCLIC AROMATIC COMPOUNDS	11	1	1	13	52	189	63
			PROPYLENE	25,140	0	0	25,140	19,407	0	0
			STYRENE	208	0	0	208		0	
			SULFURIC ACID	230,000	0	0	230,000	242,000	0	0
			TETRACHLOROETHYLENE	0	0	0	0		0	
			TOLUENE	5,000	0	0	5,000	5,265	143	175
			XYLENE (MIXED ISOMERS)	6,200	0	0	6,200	6,569	149	170
Summary for 'Facility' =	PUGET SOUND REFINERY	PUGET SOUND REFINERY		351,41	416	5,671	357,505		62,617	
SKAGIT	SAFETY-KLEEN ANACORTES FACILITY	ANACORTES	LEAD COMPOUNDS	0	0	0	0		0	

COUNTY	Facility	City	Chemical	Air	Land	Water	2001	2000	2001	2000
							Releases	Releases	Transfers	Transfers
SKAGIT	TESORO REFINING AND MARKETING COMPANY	ANACORTES	1,2,4-TRIMETHYLBENZENE	2,057	0	0	2,057	1,164	0	0
			1,3-BUTADIENE	386	0	0	386	150	0	0
			AMMONIA	1,730	1,610	1,730	5,070	3,750	0	0
			BENZENE	16,096	0	0	16,096	16,340	61	39
			BENZO(G,H,I)PERYLENE	2	0	0	2	2	0	0
			CARBON DISULFIDE	3,300	0	0	3,300	900	0	0
			CARBONYL SULFIDE	240,000	0	0	240,000	64,000	0	0
			CHLORINE	4,005	0	0	4,005	4,330	0	0
			CRESOL (MIXED ISOMERS)	0	0	0	0	0	0	0
			CUMENE	215	0	0	215	230	0	0
			CYCLOHEXANE	12,939	0	0	12,939	13,000	0	0
			DIETHANOLAMINE	2,390	0	0	2,390	500	0	0
			ETHYLBENZENE	15,055	0	0	15,055	9,060	49	161
			ETHYLENE	46,200	0	0	46,200	16,500	0	0
			HYDROCHLORIC ACID	1	0	0	1	1	0	0
			LEAD COMPOUNDS	11	14	18	43		47	
			MERCURY COMPOUNDS	4	35	3	42	89	38	44
			METHANOL	80	0	0	80	80	0	0
			METHYL TERT-BUTYL ETHER	232	0	0	232	800	0	0
			MOLYBDENUM TRIOXIDE	0	0	0	0	0	0	0
			NAPHTHALENE	3,090	0	0	3,090	2,700	115	361
			N-HEXANE	23,182	0	0	23,182	16,090	0	0
			PHENOL	552	0	0	552	554	0	0
			POLYCYCLIC AROMATIC COMPOUNDS	777	38	0	815	254	39	40
			PROPYLENE	72,680	0	0	72,680	31,680	0	0
			SULFURIC ACID	901,399	0	0	901,399	613,000	0	0
			TETRACHLOROETHYLENE	6,329	0	0	6,329	3,500	0	0
			TOLUENE	41,501	0	0	41,501	44,530	116	256
			XYLENE (MIXED ISOMERS)	44,963	0	0	44,963	44,330	246	761

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
Summary for 'Facility' = TESORO REFINING AND MARKETING COMPANY				1,439,1	1,697	1,751	1,442,62		711	
SKAGIT	TTM TECHNOLOGIES,INC	BURLINGTON	AMMONIA	50	0	0	50	107	18,006	102,426
			COPPER COMPOUNDS	0	0	0	0	0	144,569	385,308
			FORMALDEHYDE	197	0	0	197	60	0	0
			LEAD	0	0	0	0	0	7,829	11,345
			NITRATE COMPOUNDS	0	0	0	0	0	30,716	31,661
			NITRIC ACID	0	0	0	0	0	0	0
Summary for 'Facility' = TTM TECHNOLOGIES,INC				247	0	0	247		201,12	
Summary for 'County' = SKAGIT				<u>1,833,325</u>	<u>2,189</u>	<u>7,422</u>	<u>1,842,936</u>		<u>480,830</u>	
SNOHOMISH	ACHILLES USA INC	EVERETT	PHENOL	7,700	0	0	7,700		0	
SNOHOMISH	AEROSTRUCTURES CORP. CONTOUR WA. DIVISION	EVERETT	COPPER	0	0	0	0	0	30,987	16,011
			MANGANESE	0	0	0	0	0	9,360	13,847
			NICKEL	0	0	0	0	0	8,263	15,686
Summary for 'Facility' = AEROSTRUCTURES CORP. CONTOUR WA. DIVISION				0	0	0	0		48,610	
SNOHOMISH	ALLIED TECHNICAL SERVICES	BOTHELL	LEAD	5	0	0	5		0	
SNOHOMISH	AMERICAN BOILER WORKS	EVERETT	METHYL ETHYL KETONE		0	0		13,760	500	500
SNOHOMISH	BOEING COMMERCIAL AIRPLANE GROUP - EVERETT	EVERETT	AMMONIA	14,000	0	0	14,000	12,200	2	59
			CERTAIN GLYCOL ETHERS	30,000	0	0	30,000	13,300	59,725	59,088
			CHROMIUM COMPOUNDS	9	0	68	77	5,676	40,100	60,054
			COPPER	1	0	114	115	3,635	101,524	444,195
			DICHLOROMETHANE	7,580	0	33	7,613	11,824	5,417	973
			DIETHANOLAMINE	24,000	0	0	24,000	23,000	4,860	4,960
			FREON 113	23,000	0	0	23,000	23,000	13,800	16,162
			MANGANESE COMPOUNDS	6	0	0	6	6	40,898	76,003
			METHANOL	2,330	0	0	2,330	2,110	1,290	1,222
			METHYL ETHYL KETONE	166,000	0	33	166,033	145,066	58,780	108,132
			METHYL ISOBUTYL KETONE	23,300	0	0	23,300	20,000	13,640	11,602
			NAPHTHALENE	10	0	0	10	15	790	800
			NITRIC ACID	0	0	0	0	0	23,300	42,100

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
SNOHOMISH	BOEING COMMERCIAL AIRPLANE GROUP - EVERETT	EVERETT	PHENOL	2,230	0	0	2,230	6,550	1,829	118
			SEC-BUTYL ALCOHOL	11,100	0	0	11,100	17,800	9,694	11,860
			TETRABROMOBISPHENOL A	950	0	0	950	930	0	0
			TOLUENE	39,100	0	35	39,135	39,477	26,843	59,321
			TRICHLOROETHYLENE	84,200	0	0	84,200	73,700	15,800	16,800
			XYLENE (MIXED ISOMERS)	8,600	0	33	8,633	7,538	5,310	9,896
	Summary for 'Facility' = BOEING COMMERCIAL AIRPLANE GROUP - EVERETT			436,41	0	316	436,732		423,60	
SNOHOMISH	CANYON CREEK CABINET COMPANY	MONROE	FORMALDEHYDE	125	0	0	125		0	
			METHANOL	12,581	0	0	12,581	13,245	856	8,685
	Summary for 'Facility' = CANYON CREEK CABINET COMPANY			12,706	0	0	12,706		856	
SNOHOMISH	CHEVRON PRODUCTS COMPANY, RICHMOND BEACH ASPHALT REFINERY	SEATTLE	BENZENE	2,050	0	220	2,270	2,126	0	6
			BENZO(G,H,I)PERYLENE	0	0	0	0	0	0	0
			CYCLOHEXANE	1,580	0	220	1,800	2,898	0	5
			LEAD COMPOUNDS	0	0	0	0		0	
			N-HEXANE	2,700	0	430	3,130	4,800	0	253
			POLYCYCLIC AROMATIC COMPOUNDS	1	0	0	1	0	0	0
			TOLUENE	831	0	62	893	2,086	0	8
			XYLENE (MIXED ISOMERS)	762	0	76	838	1,478	0	9
	Summary for 'Facility' = CHEVRON PRODUCTS COMPANY, RICHMOND BEACH ASPHALT			7,924	0	1,008	8,932		0	
SNOHOMISH	CIRCUITS ENG. INC.	BOTHELL	COPPER	0	0	0	0	0	32,136	87,016
			LEAD	0	0	0	0		1,590	
	Summary for 'Facility' = CIRCUITS ENG. INC.			0	0	0	0		33,726	
SNOHOMISH	COOK COMPOSITES AND POLYMERS CO	ARLINGTON	METHYL METHACRYLATE	994	0	0	994	1,000	681	193
			STYRENE	2,880	0	0	2,880	2,814	9,064	2,656
	Summary for 'Facility' = COOK COMPOSITES AND POLYMERS CO			3,874	0	0	3,874		9,745	
SNOHOMISH	CUTLER HAMMER SENSORS	EVERETT	LEAD COMPOUNDS	0	0	0	0		22	
SNOHOMISH	ELDEC CORP NORTH CREEK SITE	BOTHELL	LEAD COMPOUNDS	0	0	0	0		1,559	

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
SNOHOMISH	ELDEC CORP NORTH CREEK SITE	BOTHELL	TETRABROMOBISPHENOL A	0	0	0	0		12	
	Summary for 'Facility' = ELDEC CORP NORTH CREEK SITE			0	0	0	0		1,571	
SNOHOMISH	ELDEC CORPORATION MARTHA LAKE SITE	LYNNWOOD	LEAD COMPOUNDS	0	0	0	0		412	
SNOHOMISH	GLACIER BAY INC.	MONROE	STYRENE	26,356	0	0	26,356	54,050	4,075	6,594
SNOHOMISH	GLACIER NORTHWEST, INC. EVERETT PLANT	EVERETT	LEAD COMPOUNDS	0	0	0	0		0	
SNOHOMISH	GOODRICH AVIATION TECHNICAL SERVICES	EVERETT	MANGANESE COMPOUNDS	0	0	0	0	0	750	8
			METHYL ETHYL KETONE	4,900	0	0	4,900	7	755	8
	Summary for 'Facility' = GOODRICH AVIATION TECHNICAL SERVICES			4,900	0	0	4,900		1,505	
SNOHOMISH	INDUSTRIAL FINISHINGS, LLC DBA CALVERT IND.	SNOHOMISH	METHYL ETHYL KETONE	29,163	0	0	29,163	38,310	2,958	1,424
			XYLENE (MIXED ISOMERS)	6,038	0	0	6,038	5,706	1,972	949
	Summary for 'Facility' = INDUSTRIAL FINISHINGS, LLC DBA CALVERT IND.			35,201	0	0	35,201		4,930	
SNOHOMISH	J. H. BAXTER & CO.	ARLINGTON	HEXACHLOROBENZENE	0	0	0	0	0	0	0
			PENTACHLOROPHENOL	77	24	0	101	101	827	1,700
			POLYCYCLIC AROMATIC COMPOUNDS	1	0	0	1	2	0	1
	Summary for 'Facility' = J. H. BAXTER & CO.			78	24	0	102		827	
SNOHOMISH	KIMBERLY-CLARK CORPORATION	EVERETT	AMMONIA	3,305	0	29,369	32,674	47,330	0	0
			BARIUM COMPOUNDS	5	5,116	5,536	10,657	30,704	15,431	15,000
			CHLORINE	0	0	0	0	955	0	0
			CHLORINE DIOXIDE	250	0	0	250	3	0	0
			FORMIC ACID	0	0	0	0	0	0	0
			HYDROCHLORIC ACID	399,110	0	0	399,110	520,000	0	0
			LEAD COMPOUNDS	7	607	4,414	5,028		1,830	
			MANGANESE COMPOUNDS	5	14,654	19,371	34,030	143,005	44,198	40,600
			MERCURY COMPOUNDS	1	10	3	15	115	30	15
			METHANOL	51,774	0	117,449	169,223	164,000	0	0
			NITRATE COMPOUNDS	0	0	328,926	328,926	322,000	0	0
			VINYL ACETATE	5,995	0	250	6,245	8,283	0	0

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
SNOHOMISH	KIMBERLY-CLARK CORPORATION	EVERETT	ZINC COMPOUNDS	250	11,775	4,860	16,885	42,834	35,515	17,400
Summary for 'Facility' = KIMBERLY-CLARK CORPORATION				460,70	32,162	510,17	1,003,04		97,004	
SNOHOMISH	PHILIPS ULTRASOUND INC	BOTHELL	LEAD	0	0	0	0		790	
SNOHOMISH	PLEXUS CORP.- BWA	BOTHELL	LEAD COMPOUNDS	0	0	0	0		4,525	
SNOHOMISH	REYNOLDS CORP.	LYNNWOOD	STYRENE	1,953	0	0	1,953	1,720	0	0
SNOHOMISH	ROMAC INDUSTRIES INC	BOTHELL	CHROMIUM	5	0	0	5	2	0	10
			MANGANESE	0	0	0	0	0	0	0
			NICKEL	5	0	0	5	2	2	6
Summary for 'Facility' = ROMAC INDUSTRIES INC				10	0	0	10		2	
SNOHOMISH	SOLECTRON WASHINGTON INC	EVERETT	LEAD COMPOUNDS	0	0	0	0	0	19,926	28,400
SNOHOMISH	SPECTRUM GLASS CO. INC.	WOODINVILLE	LEAD COMPOUNDS	1	0	0	1		0	
			ZINC COMPOUNDS	95	0	0	95	98	568	328
Summary for 'Facility' = SPECTRUM GLASS CO. INC.				96	0	0	96		568	
SNOHOMISH	TONE COMMANDER SYSTEMS, INC.	MUKILTEO	LEAD	0	0	0	0		219	
SNOHOMISH	US MARINE/BAYLINER MARINE	ARLINGTON	STYRENE	101,421	0	0	101,421	131,013	0	0
Summary for 'County' = SNOHOMISH				1,099,342	32,186	511,502	1,643,030		653,416	
SPOKANE	ADM ANIMAL HEALTH & NUTRITION DIVISION	SPOKANE	MANGANESE COMPOUNDS	2	0	0	2		786	
			ZINC COMPOUNDS	9	0	0	9	5	3,676	2,151
Summary for 'Facility' = ADM ANIMAL HEALTH & NUTRITION DIVISION				11	0	0	11		4,462	
SPOKANE	APOLLO PLASTICS INC	SPOKANE	STYRENE	115	0	0	115	851	0	0
SPOKANE	COLUMBIA LIGHTING INC.	SPOKANE	LEAD	0	0	0	0		40	
			MANGANESE	0	0	0	0	0	9,355	5,993
			NICKEL	0	0	0	0	0	6,528	3,836
Summary for 'Facility' = COLUMBIA LIGHTING INC.				0	0	0	0		15,923	
SPOKANE	COLUMBIA PAINT & COATINGS	SPOKANE	ETHYLENE GLYCOL	3,977	0	0	3,977	5,521	0	0
			TOLUENE	3,943	0	0	3,943	3,628	0	0
			XYLENE (MIXED ISOMERS)	3,161	0	0	3,161	2,987	0	0
Summary for 'Facility' = COLUMBIA PAINT & COATINGS				11,081	0	0	11,081		0	

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
SPOKANE	CONOCO PARKWATER PRODUCT TERMINAL	SPOKANE	1,2,4-TRIMETHYLBENZENE	199	0	0	199	436	250	58
			BENZENE	1,180	0	0	1,180	1,306	250	55
			BENZO(G,H,I)PERYLENE	0	0	0	0	0	0	0
			CUMENE	405	0	0	405	614	115	115
			ETHYLBENZENE	145	0	0	145	367	40	40
			N-HEXANE	2,152	0	0	2,152	2,137	17	17
			POLYCYCLIC AROMATIC COMPOUNDS	0	0	0	0	0	0	0
			TOLUENE	1,758	0	0	1,758	1,775	187	187
			XYLENE (MIXED ISOMERS)	725	0	0	725	837	164	164
	Summary for 'Facility' = CONOCO PARKWATER PRODUCT TERMINAL			6,564	0	0	6,564		1,023	
SPOKANE	FIBER-TECH INDUSTRIES	SPOKANE	METHYL METHACRYLATE	33,800	0	0	33,800	71,197	0	0
			STYRENE	96,400	0	0	96,400	260,100	1,399	42,920
	Summary for 'Facility' = FIBER-TECH INDUSTRIES			130,200	0	0	130,200		1,399	
SPOKANE	HONEYWELL ELECTRONIC MATERIALS INC.	CHENEY	LEAD	0	0	0	0		3,100	
SPOKANE	HONEYWELL ELECTRONIC MATERIALS, INC.	SPOKANE	COPPER	0	0	0	0	0	11,000	100,005
SPOKANE	HONEYWELL ELECTRONIC MATERIALS, INC.	SPOKANE	COPPER COMPOUNDS	10	0	0	10	10	101,980	87,650
			DICHLOROMETHANE	17,000	0	0	17,000	27,000	250	750
			LEAD	1	0	0	1	5	9,901	10,001
			MERCURY COMPOUNDS	0	0	0	0	0	0	0
			N-HEXANE	10,000	0	0	10,000	12,000	2,700	2,250
			NICKEL COMPOUNDS	10	0	0	10	10	11,700	15,050
			NITRATE COMPOUNDS	10	0	0	10	10	25,000	50,000
			NITRIC ACID	500	0	0	500	1,000	0	0
	Summary for 'Facility' = HONEYWELL ELECTRONIC MATERIALS, INC.			27,531	0	0	27,531		151,530	
SPOKANE	HUNTWOOD INDUSTRIES	SPOKANE	TOLUENE	81,286	0	0	81,286		2,644	
			XYLENE (MIXED ISOMERS)	10,457	0	0	10,457	31,556	121	361
	Summary for 'Facility' = HUNTWOOD INDUSTRIES			91,743	0	0	91,743		2,765	
SPOKANE	INLAND EMPIRE PAPER COMPANY	SPOKANE	LEAD COMPOUNDS	4	9	0	13		9	

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
SPOKANE	INLAND EMPIRE PAPER COMPANY	SPOKANE	METHANOL	12,076	250	250	12,576		250	
			POLYCYCLIC AROMATIC COMPOUNDS	1,090	10	0	1,100		10	
	Summary for 'Facility' = INLAND EMPIRE PAPER COMPANY			13,170	269	250	13,689		269	
SPOKANE	INLAND FOUNDRY CO INC	MEAD	LEAD COMPOUNDS	97	333	0	430		1,329	
SPOKANE	KAISER ALUMINUM & CHEMICAL CORPORATION - MEAD WORKS	MEAD	BENZO(G,H,I)PERYLENE	1	0	0	1	5	30	14
			LEAD	0	0	0	0		6	
			POLYCYCLIC AROMATIC COMPOUNDS	5	0	0	5	430	530	226
	Summary for 'Facility' = KAISER ALUMINUM & CHEMICAL CORPORATION - MEAD WORKS			6	0	0	6		566	
SPOKANE	KAISER ALUMINUM & CHEMICAL CORPORATION - TRENTWOOD WORKS	SPOKANE	1,2,4-TRIMETHYLBENZENE	279	0	0	279	646	4,489	8,798
			CERTAIN GLYCOL ETHERS	324	0	0	324	816	2,242	4,393
			CHLORINE	70,106	0	0	70,106	128,555	0	0
			CHROMIUM	50	0	0	50	92	141	146
			COPPER	86	0	4	90	80	542	452
			HYDROCHLORIC ACID	7,451	0	0	7,451	14,108	0	0
			LEAD	97	0	0	98		3	
			MANGANESE	88	0	2	90	148	151	279
			METHYL ETHYL KETONE	1,523	0	0	1,523	2,085	163,620	321,358
			METHYL ISOBUTYL KETONE	449	0	0	449	1,069	4,489	8,798
			TOLUENE	1,479	0	0	1,479	2,109	29,140	57,115
			XYLENE (MIXED ISOMERS)	62	0	0	62	65	224	7,532
			ZINC COMPOUNDS	23	0	497	520	31	828	462
	Summary for 'Facility' = KAISER ALUMINUM & CHEMICAL CORPORATION - TRENTWOOD			82,017	0	503	82,521		205,86	
SPOKANE	KOCH MATERIALS COMPANY - SPOKANE HILLYARD FACILITY	SPOKANE	BENZO(G,H,I)PERYLENE	0	0	0	0	0	0	0
			POLYCYCLIC AROMATIC COMPOUNDS	0	0	0	0	0	10	3
	Summary for 'Facility' = KOCH MATERIALS COMPANY - SPOKANE HILLYARD FACILITY			0	0	0	0		10	
SPOKANE	MELCHER MFG. CO. INC.	SPOKANE	STYRENE	13,192	0	0	13,192	17,990	0	0
SPOKANE	MICA BRICK PLANT	MICA	HYDROGEN FLUORIDE	28,328	0	0	28,328	28,901	0	0

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
SPOKANE	QUARRY TILE CO	SPOKANE	LEAD	0	0	0	0		0	
SPOKANE	SERVATRON INC.	SPOKANE	LEAD	0	0	0	0		30	
SPOKANE	SPOKANE GALVANIZING INC.	AIRWAY HEIGHTS	ZINC COMPOUNDS	1,614	0	0	1,614	1,732	146,515	160,167
SPOKANE	SPOKANE METAL PRODS.	SPOKANE	CHROMIUM	5	0	0	5	5	12,517	14,254
			NICKEL	5	0	0	5	5	6,571	7,483
Summary for 'Facility' = SPOKANE METAL PRODS.				10	0	0	10		19,088	
SPOKANE	SPOKANE STEEL FNDY.	SPOKANE	4,4'- ISOPROPYLIDENEDIPHENOL CHROMIUM	0	0	0	0	0	0	0
			CHROMIUM	10	0	0	10	255	250	750
			MANGANESE	255	0	0	255	255	1,589	1,838
			NICKEL	10	0	0	10	10	250	250
Summary for 'Facility' = SPOKANE STEEL FNDY.				275	0	0	275		2,089	
SPOKANE	TELECT INC.	LIBERTY LAKE	LEAD COMPOUNDS	0	0	0	0		872	
SPOKANE	TRAVIS PATTERN AND FOUNDRY, INC	SPOKANE	COPPER	0	0	0	0	0	0	0
			TRICHLOROETHYLENE	3,300	0	0	3,300	5,280	2,063	1,680
Summary for 'Facility' = TRAVIS PATTERN AND FOUNDRY, INC				3,300	0	0	3,300		2,063	
SPOKANE	UNITED COATINGS MANUFACTURING COMPANY	GREENACRES	DIISOCYANATES	0	0	0	0	0	500	750
			ETHYLBENZENE	400	0	0	400	400	200	250
			LEAD COMPOUNDS	0	0	0	0		0	
			XYLENE (MIXED ISOMERS)	1,600	0	0	1,600	2,300	600	1,700
Summary for 'Facility' = UNITED COATINGS MANUFACTURING COMPANY				2,000	0	0	2,000		1,300	
SPOKANE	US MARINE/BAYLINER MARINE	SPOKANE	STYRENE	13,513	0	0	13,513	133,778	0	0
SPOKANE	VOPAK USA INC.	SPOKANE	METHANOL	454	0	0	454		0	
Summary for 'County' = SPOKANE				<u>425,221</u>	<u>602</u>	<u>753</u>	<u>426,576</u>		<u>571,203</u>	
STEVENS	ALADDIN HEARTH PRODUCTS	COLVILLE	CHROMIUM	3	0	0	3		0	
			NICKEL	2	0	0	2		0	
Summary for 'Facility' = ALADDIN HEARTH PRODUCTS				5	0	0	5		0	
STEVENS	BOISE KETTLE FALLS LUMBER	KETTLE FALLS	LEAD	16	0	0	16		170	
STEVENS	BOISE KETTLE FALLS PLYWOOD MILL	KETTLE FALLS	LEAD	33	0	0	33		341	

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
STEVENS	NORTHWEST ALLOYS, INC.	ADDY	AMMONIA	21,302	8,964	0	30,266	48,290	791	0
			COPPER	119	0	0	119	180	30,469	49,949
			HYDROCHLORIC ACID	7,283	0	0	7,283	9,750	0	0
			LEAD	13	9,367	0	9,380		37	
	Summary for 'Facility' = NORTHWEST ALLOYS, INC.			28,717	18,331	0	47,048		31,297	
STEVENS	STIMSON LUMBER COMPANY - ARDEN OPERATION	COLVILLE	LEAD COMPOUNDS	8	120	0	128		130	
	Summary for 'County' = STEVENS			28,779	18,451	0	47,230		31,938	
THURSTON	AMTECH CORP.	YELM	STYRENE	55,519	0	0	55,519	52,400	0	0
THURSTON	CROWN BEVERAGE PACKAGING	OLYMPIA	CERTAIN GLYCOL ETHERS	151,000	0	0	151,000	130,000	0	0
			HYDROGEN FLUORIDE	0	0	0	0	0	0	0
			MANGANESE COMPOUNDS	0	0	0	0	0	255	255
			N-BUTYL ALCOHOL	137,000	0	0	137,000	117,000	0	0
	Summary for 'Facility' = CROWN BEVERAGE PACKAGING			288,000	0	0	288,000		255	
THURSTON	LASCO BATHWARE, INC.	YELM	STYRENE	461,440	0	0	461,440	469,400	0	0
	Summary for 'County' = THURSTON			804,959	0	0	804,959		255	
WALLA WALLA	BOISE CASCADE PAPER DIVISION	WALLULA	ACETALDEHYDE	48,000	0	1,400	49,400	45,000	0	0
			AMMONIA	120,500	0	17,000	137,500	138,400	0	0
			BENZO(G,H,I)PERYLENE	1	0	3	4	180	0	0
			CATECHOL	0	1	57	58	61	0	0
			CHLORINE	45	0	0	45	129	0	0
			CHLORINE DIOXIDE	2,900	0	0	2,900	2,900	0	0
			FORMALDEHYDE	2,273	25	2,400	4,698	4,952	0	0
			FORMIC ACID	0	0	2,300	2,300	1,900	0	0
			HYDROCHLORIC ACID	577,000	0	0	577,000	577,000	0	0
			LEAD	59	859	293	1,211		0	
			MANGANESE COMPOUNDS	1,000	18,300	41,000	60,300	94,400	7	7
			MERCURY	2	0	0	2		0	
			METHANOL	15,380	810	12,100	28,290	456,600	0	0
			NITRATE COMPOUNDS	0	0	25,400	25,400	27,000	0	0

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
WALLA WALLA	BOISE CASCADE PAPER DIVISION	WALLULA	PHENOL	600	24	0	624	650	0	0
			POLYCYCLIC AROMATIC COMPOUNDS	82	5	12	99	59	0	0
			SULFURIC ACID	146,000	0	0	146,000	137,000	0	0
	Summary for 'Facility' = BOISE CASCADE PAPER DIVISION			913,84	20,024	101,96	1,035,83		7	
WALLA WALLA	IBP INC.	WALLULA	AMMONIA	34,400	0	0	34,400	48,200	62,400	68,400
			CHLORINE	5	0	0	5	5	250	250
			LEAD	0	0	0	0		0	
	Summary for 'Facility' = IBP INC.			34,405	0	0	34,405		62,650	
WALLA WALLA	NELSON IRRIGATION CORP.	WALLA WALLA	COPPER	80	0	0	80	250	204,115	308,530
			LEAD	20	0	0	20	250	12,060	16,850
	Summary for 'Facility' = NELSON IRRIGATION CORP.			100	0	0	100		216,17	
WALLA WALLA	REIFF MFG. INC.	WALLA WALLA	STYRENE	5,100	0	0	5,100	5,212	0	0
	Summary for 'County' = WALLA WALLA			953,446	20,024	101,965	1,075,436		278,832	
WHATCOM	BP CHERRY POINT REFINERY	BLAINE	1,2,4-TRIMETHYLBENZENE	2,120	370	0	2,490	7,082	0	0
			1,3-BUTADIENE	211	0	0	211	320	0	0
			AMMONIA	399	0	7,300	7,699	4,840	0	0
			BENZENE	20,000	137	2	20,139	43,285	155	126
			BENZO(G,H,I)PERYLENE	2	0	0	2	1	0	0
			CARBON DISULFIDE	7	0	0	7		0	
			COPPER COMPOUNDS	82	0	0	82		57,000	
			CRESOL (MIXED ISOMERS)	18	13	0	31	91	0	0
			CUMENE	640	36	0	676	1,640	0	0
			CYCLOHEXANE	5,800	190	0	5,990	10,202	0	0
			DIETHANOLAMINE	0	0	3,100	3,100	4,000	0	0
			ETHYLBENZENE	2,140	134	0	2,274	8,460	0	0
			ETHYLENE	280	0	0	280	360	0	0
			HYDROCHLORIC ACID	705	0	0	705		0	
			LEAD COMPOUNDS	68	0	0	68		67	
			MANGANESE COMPOUNDS	279	0	740	1,019	2,471	20,000	35,000
			MERCURY COMPOUNDS	11	0	0	11	38	3	157

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
WHATCOM	BP CHERRY POINT REFINERY	BLAINE	METHANOL	39,100	0	0	39,100	77,100	0	270
			MOLYBDENUM TRIOXIDE	0	0	0	0	0	0	0
			NAPHTHALENE	530	15	0	545	961	0	0
			N-HEXANE	84,000	530	0	84,530	56,217	0	0
			NICKEL COMPOUNDS	320	0	700	1,020		99,100	
			NITRATE COMPOUNDS	0	0	25,000	25,000	27,000	0	0
			PHENANTHRENE	17	0	0	17		0	
			PHENOL	330	0	810	1,140	591	0	0
			POLYCYCLIC AROMATIC COMPOUNDS	21	280	0	301	78	0	0
			PROPYLENE	2,160	0	0	2,160	580	0	0
			SULFURIC ACID	63,000	0	0	63,000	88,000	0	0
			TETRACHLOROETHYLENE	23	0	0	23	0	0	0
			TOLUENE	23,100	1,000	1	24,101	64,691	0	0
			XYLENE (MIXED ISOMERS)	9,600	752	0	10,352	39,194	1	670
			ZINC COMPOUNDS	1,550	0	440	1,990		34,000	
	Summary for 'Facility' = BP CHERRY POINT REFINERY			256,51	3,457	38,093	298,063		210,32	
WHATCOM	BROOKS MANUFACTURING CO.	BELLINGHAM	POLYCYCLIC AROMATIC COMPOUNDS	0	0	0	0		0	
WHATCOM	DARIGOLD-LYNDEN	LYNDEN	BENZO(G,H,I)PERYLENE	0	0	0	0		0	
			NITRATE COMPOUNDS	0	0	0	0		87,507	
			NITRIC ACID	10	0	0	10		0	
			POLYCYCLIC AROMATIC COMPOUNDS	0	0	0	0		0	
	Summary for 'Facility' = DARIGOLD-LYNDEN			10	0	0	10		87,507	
WHATCOM	ENCOGEN NORTHWEST COGENERATION PLANT	BELLINGHAM	AMMONIA	79,203	0	0	79,203	73,005	0	0
WHATCOM	ERSHIGS, INC.	BELLINGHAM	CHROMIUM	0	0	0	0	0	3,333	3,187
			STYRENE	55,165	0	0	55,165	75,294	1,344	1,425
	Summary for 'Facility' = ERSHIGS, INC.			55,165	0	0	55,165		4,677	
WHATCOM	GEORGIA PACIFIC WEST INC	BELLINGHAM	ACRYLIC ACID	250	0	0	250	281	0	0
			AMMONIA	6,950	0	9,200	16,150	121,310	0	0
			CHROMIUM COMPOUNDS	168	70	1,300	1,538	61,470	67	231

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
WHATCOM	GEORGIA PACIFIC WEST INC	BELLINGHAM	LEAD	0	0	0	0		0	
			NITRATE COMPOUNDS	0	0	106,000	106,000	120,000	0	0
Summary for 'Facility' = GEORGIA PACIFIC WEST INC				7,368	70	116,50	123,938		67	
WHATCOM	INTALCO ALUMINUM CORPORATION		FERNDALE CARBONYL SULFIDE	66,400	0	0	0	66,400	480,000	0
0										
			COPPER	1	0	0	1		0	
			HYDROGEN FLUORIDE	21,460	0	0	21,460	78,199	0	0
			LEAD	82	55	0	137		23	
			LITHIUM CARBONATE	318	0	0	318	847	0	0
			MANGANESE	1	0	0	1		0	
			POLYCYCLIC AROMATIC COMPOUNDS	3,645	0	0	3,645	16,000	315	0
Summary for 'Facility' = INTALCO ALUMINUM CORPORATION				91,907	55	0	91,962		338	
WHATCOM	MAAX-HYDRO SWIRL MFG. CORP.	BELLINGHAM	STYRENE	51,068	0	0	51,068	44,021	0	0
WHATCOM	OCEANUS PLASTICS INC.	FERNDALE	LEAD	0	0	0	0		0	
			STYRENE	8,657	0	0	8,657	5,779	1,000	983
Summary for 'Facility' = OCEANUS PLASTICS INC.				8,657	0	0	8,657		1,000	
WHATCOM	PHILLIPS 66 COMPANY REFINERY	FERNDALE	FERNDALE 1,2,4-TRIMETHYLBENZENE	208	4	0	212	193	398	135
			1,3-BUTADIENE	97	0	0	97		0	
			AMMONIA	153	0	2,810	2,963	4,611	0	0
			BENZENE	2,009	119	0	2,128	2,018	45	15
			BENZO(G,H,I)PERYLENE	17	9	0	25	33	10	2
			CRESOL (MIXED ISOMERS)	4	71	0	75	6	0	0
			CUMENE	407	66	0	473	421	231	37
			CYCLOHEXANE	4,409	31	0	4,440	4,406	316	53
			DIETHANOLAMINE	933	0	0	933	940	0	0
			ETHYLBENZENE	1,485	2	0	1,487	1,277	199	68
			ETHYLENE	2,312	0	0	2,312	1,652	0	0
			HYDROGEN FLUORIDE	465	0	0	465	470	0	0
			LEAD COMPOUNDS	8	0	40	48		73	
			MANGANESE	0	0	466	466	480	0	0

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
WHATCOM	PHILLIPS 66 COMPANY REFINERY	FERNDALE	MERCURY COMPOUNDS	0	0	1	1	0	5	14
			METHANOL	20	0	0	20	14	0	0
			NAPHTHALENE	682	144	0	826	690	111	37
			N-HEXANE	2,066	45	0	2,111	2,146	227	30
			NITRATE COMPOUNDS	0	0	31,915	31,915	33,000	0	0
			PHENOL	0	36	58	94	61	0	0
			POLYCYCLIC AROMATIC COMPOUNDS	2,072	75	0	2,147	1,784	73	15
			PROPYLENE	964	0	0	964	1,551	0	0
			SULFURIC ACID	176,382	0	0	176,382	170,000	0	0
			TETRACHLOROETHYLENE	6	0	0	6	8	0	0
			TOLUENE	8,101	56	0	8,157	7,702	514	90
			XYLENE (MIXED ISOMERS)	3,862	525	0	4,387	3,382	599	202
	Summary for 'Facility' = PHILLIPS 66 COMPANY REFINERY			206,66	1,183	35,290	243,134		2,801	
WHATCOM	PRAXAIR INC.	FERNDALE	AMMONIA	25,200	0	0	25,200	26,820	0	0
WHATCOM	SEA SPORT BOATS, INC.	BELLINGHAM	STYRENE	11,689	0	0	11,689	11,019	0	0
WHATCOM	TENASKA WASHINGTON PARTNERS COGENERATION FACILITY	FERNDALE	AMMONIA	14,257	0	0	14,257	14,136	0	0
WHATCOM	THE OESER COMPANY	BELLINGHAM	HEXACHLOROBENZENE	0	0	0	0		0	
			PENTACHLOROPHENOL	3	0	0	3	7	0	1
	Summary for 'Facility' = THE OESER COMPANY			3	0	0	3		0	
	Summary for 'County' = WHATCOM			<u>807,703</u>	<u>4,765</u>	<u>189,883</u>	<u>1,002,350</u>		<u>306,716</u>	
WHITMAN	SCHWEITZER ENGINEERING LABORATORIES INC	PULLMAN	LEAD	0	0	0	0		335	
	Summary for 'County' = WHITMAN			<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>		<u>335</u>	
YAKIMA	BAY ZINC COMPANY, INC.	MOXEE	COPPER COMPOUNDS	0	0	0	0	1	12,186	27,280
			LEAD COMPOUNDS	0	0	0	0	1	48,742	109,264
			SULFURIC ACID	0	0	0	0	0	0	0
			ZINC COMPOUNDS	794	0	0	794	2,335	42,650	95,480
	Summary for 'Facility' = BAY ZINC COMPANY, INC.			794	0	0	794		103,57	

COUNTY	Facility	City	Chemical	Air	Land	Water	2001 Releases	2000 Releases	2001 Transfers	2000 Transfers
YAKIMA	BOISE YAKIMA COMPLEX	YAKIMA	LEAD	34	0	0	34		100	
YAKIMA	CANAM STEEL CORPORATION SUNNYSIDE, WA PLANT	SUNNYSIDE	CERTAIN GLYCOL ETHERS	7,803	0	0	7,803	10,464	0	0
YAKIMA	DARIGOLD-SUNNYSIDE	SUNNYSIDE	AMMONIA	5	0	0	5	0	56	43
			BENZOYL PEROXIDE	0	0	0	0	25	0	451
			NITRATE COMPOUNDS	0	0	0	0	0	650,708	692,348
			NITRIC ACID	10	0	0	10	0	34,777	14,348
	Summary for 'Facility' = DARIGOLD-SUNNYSIDE			15	0	0	15		685,54	
YAKIMA	PACE INTERNATIONAL LLC	WAPATO	DIPHENYLAMINE	255	250	0	505	250	0	0
			MANGANESE COMPOUNDS	500	250	0	750	30,424	1,500	0
			ZINC COMPOUNDS	500	750	0	1,250	0	2,000	0
	Summary for 'Facility' = PACE INTERNATIONAL LLC			1,255	1,250	0	2,505		3,500	
YAKIMA	SHIELDS BAG & PRINTING CO	YAKIMA	DIBUTYL PHTHALATE	6,556	0	0	6,556	3,377	680	468
YAKIMA	TRAIL WAGONS, INC.	YAKIMA	STYRENE	19,462	0	0	19,462	40,404	0	0
YAKIMA	TREE TOP, INC. ROSS PLANT	SELAH	NITRATE COMPOUNDS	0	0	0	0	0	80,350	74,600
YAKIMA	WESTERN RECREATIONAL VEHICLES INC.	YAKIMA	STYRENE	5,013	0	0	5,013	16,385	0	0
YAKIMA	YAKIMA BAIT COMPANY/WORDEN'S LURE	GRANGER	LEAD	0	0	0	0		0	
YAKIMA	YAKIMA TRAINING CENTER RANGE OPERATIONS	YAKIMA	ALUMINUM (FUME OR DUST)	0	0	0	0		0	
			COPPER	0	65,299	0	65,299		0	
			LEAD COMPOUNDS	360	14,114	0	14,474		0	
			NITROGLYCERIN	0	0	0	0		0	
	Summary for 'Facility' = YAKIMA TRAINING CENTER RANGE OPERATIONS			360	79,413	0	79,773		0	
	Summary for 'County' = YAKIMA			<u>41,292</u>	<u>80,663</u>	<u>0</u>	<u>121,955</u>		<u>873,749</u>	
	Grand Total			14,976,101	5,189,711	2,155,588	22,321,400		20,910,672	