

EJ and the AWMA

Adapting to a Changing World

EJ 2.2 and RESI Risk-Screening and Environmental Indicators Model

What it means to You

Environmental Justice Process

- ▶ Requirements and expectations for community participation are changing
- ▶ Increased accountability on industry is expected to be imposed through the permitting process
- ▶ EJ Screen Indexes for air pollutants are a retrospective examination of emissions impact on affected communities
- ▶ EJ Screen does not provide a New Source Review evaluation of emissions changes
- ▶ Index values in the area of evaluation are based on emissions from all facilities impacting the area

EJ Screen Outcomes

- ▶ Percentile approach means outcomes across the state will have the spread of 0 to 95+ percentile, regardless of the actual high number.
 - ❖ For example, an area could be at the 95th percentile for a pollutant, yet still be in compliance with the NAAQS
 - ❖ Compliance with an NAAQS does not mean disproportionate impact has not occurred
- ▶ Air Toxics Risk and Air Toxics Cancer risk are based on cumulative emissions of listed pollutants calculated individually and the scores combined to provide a basis for comparison
- ▶ Risk-related result values (named RSEI Score in the RSEI model) are used to calculate Air Toxics Risk and Air Toxics Cancer risk.

RSEI Score Meaning

- ▶ “Risk-related result values (named RSEI Score in the RSEI model) are the generated scoring metrics that are intended to be the primary descriptors of relative potential risk to human health for use in comparative analysis”
- ▶ “RSEI Scores are calculated as unitless values that account for:
 - ❖ the magnitude of a chemical release,
 - ❖ the fate and transport of the chemical within the environment,
 - ❖ the size and location(s) of potentially exposed populations,
 - ❖ and the chemical’s relative toxicity weight”
- ▶ RSEI Version 2.3.11 March 2023

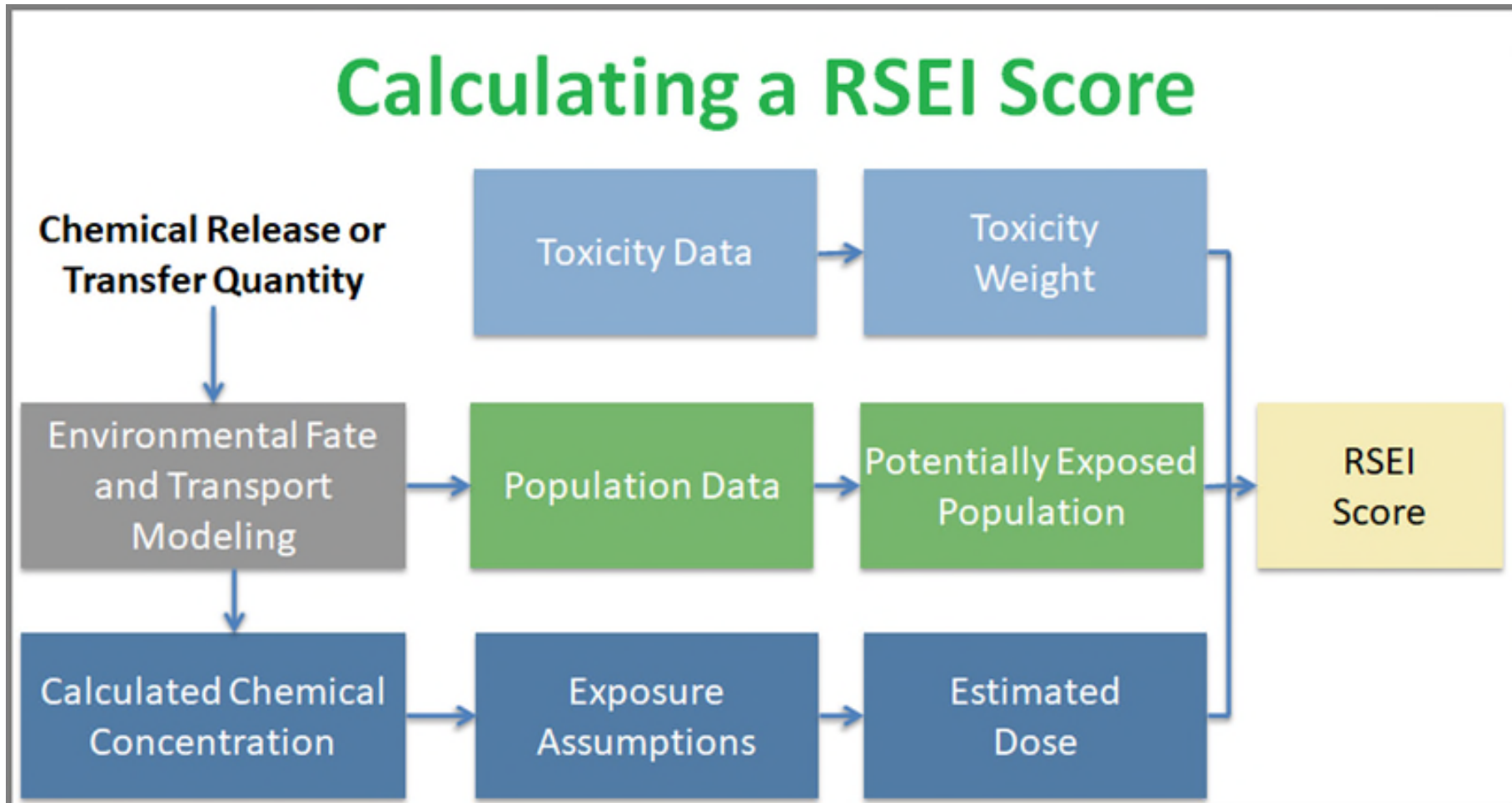
RSEI is Used For

- ▶ Modelling Air Releases using TRI Data and National Air Toxics Assessment (NATA) data
- ▶ Modelling Water Releases
- ▶ Modelling Offsite Transfers

In order to:

- ▶ Identify high-scoring chemicals
- ▶ Examine trends over time for facilities, industry sectors, or geographic areas. In some cases, the potential for chronic human health impacts can increase even though fewer total quantities of toxic chemicals are released.
- ▶ Helping to prioritize issues for communities relating to toxics management. RSEI can help identify chemicals, facilities, and types of waste management activities that may be of most concern and require further investigation.
- ▶ Looking at environmental justice issues. Combining RSEI data with demographic and income data can help communities and policymakers identify areas of potential concern.

RSEI Score



EJScreen Community Report, Gramercy, LA 10 - mile ring

EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

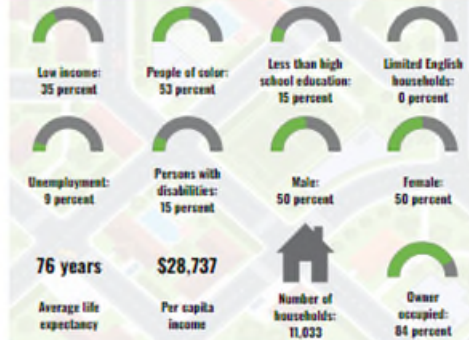


Gramercy, LA

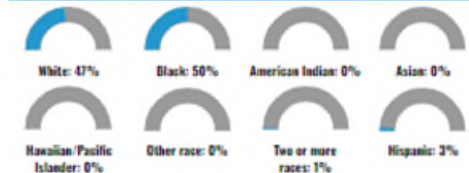
10 miles Ring Centered at 30.047550,-90.689392
Population: 30,472
Area in square miles: 314.03



COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	97%
Spanish	1%
French, Haitian, or Cajun	1%
Total Non-English	3%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

EJScreen page 2

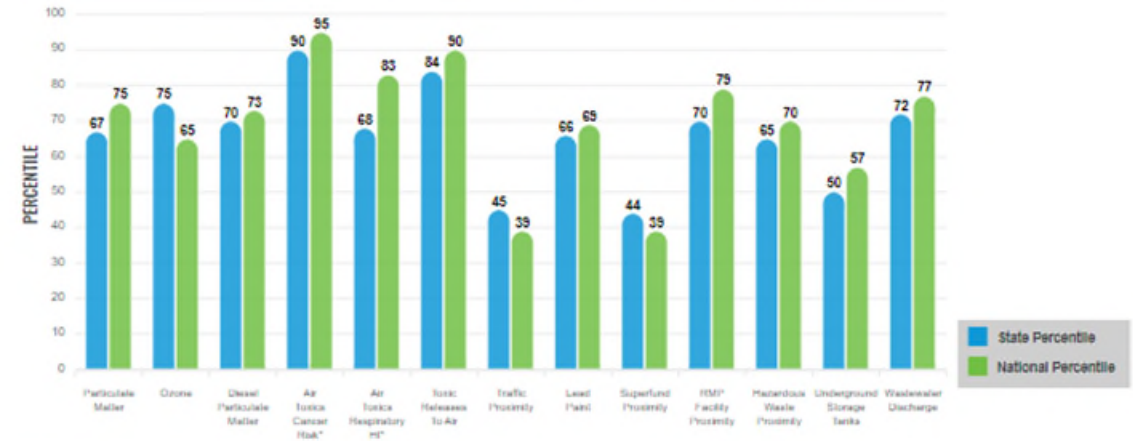
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to these for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ Index combines data on low income and people of color populations with a single environmental indicator.

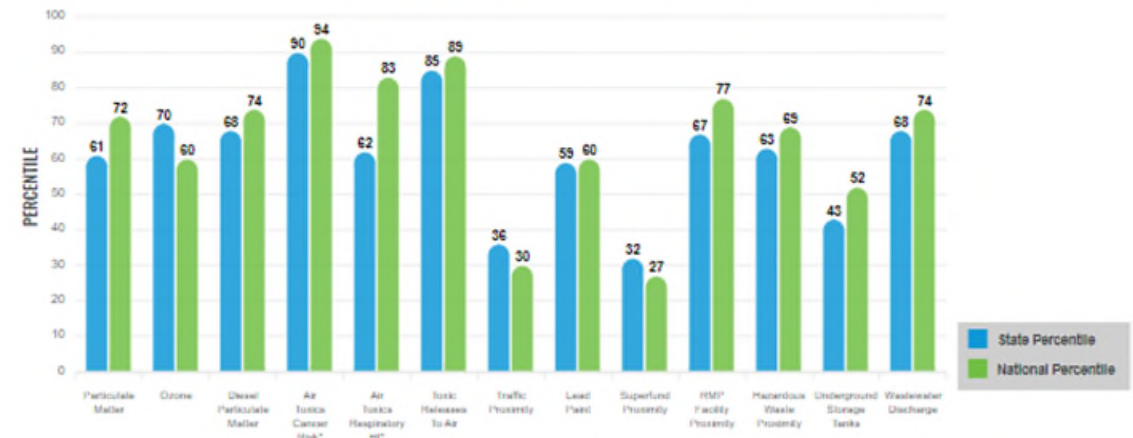
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



EJScreen page 3

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	8.5	8.62	51	8.08	58
Ozone (ppb)	60.2	59.8	69	61.6	42
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.259	0.247	63	0.261	60
Air Toxics Cancer Risk* (lifetime risk per million)	65	32	98	25	94
Air Toxics Respiratory HI*	0.38	0.38	1	0.31	31
Toxic Releases to Air	150,000	15,000	98	4,600	99
Traffic Proximity (daily traffic count/distance to road)	15	86	33	210	21
Lead Paint (% Pre-1960 Housing)	0.2	0.22	61	0.3	48
Superfund Proximity (site count/km distance)	0.02	0.076	29	0.13	18
RMP Facility Proximity (facility count/km distance)	0.88	0.62	76	0.43	86
Hazardous Waste Proximity (facility count/km distance)	1.1	1.1	64	1.9	62
Underground Storage Tanks (count/km ²)	0.86	2.2	49	3.9	46
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.0057	49	64	22	63
SOCIOECONOMIC INDICATORS					
Demographic Index	46%	41%	60	35%	70
Supplemental Demographic Index	16%	17%	49	14%	66
People of Color	55%	43%	66	39%	69
Low Income	36%	40%	46	31%	64
Unemployment Rate	9%	7%	71	6%	79
Limited English Speaking Households	0%	2%	76	5%	57
Less Than High School Education	15%	15%	58	12%	71
Under Age 5	5%	6%	55	6%	55
Over Age 64	18%	17%	60	17%	59
Low Life Expectancy	22%	22%	46	20%	74

*Overall particulate matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/air-toxics-data-update>

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	11
Water Dischargers	299
Air Pollution	83
Brownfields	13
Toxic Release Inventory	28

Other community features within defined area:

Schools	11
Hospitals	2
Places of Worship	59

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

EJScreen page 4

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	HEALTH VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	22%	22%	46	20%	74
Heart Disease	7.1	7	53	6.1	71
Asthma	10.1	9.9	60	10	55
Cancer	6	5.9	49	6.1	45
Persons with Disabilities	14.2%	15.9%	41	13.4%	60

CLIMATE INDICATORS					
INDICATOR	HEALTH VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	22%	25%	64	12%	87
Wildfire Risk	0%	7%	0	14%	0

CRITICAL SERVICE GAPS					
INDICATOR	HEALTH VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	21%	20%	59	14%	76
Lack of Health Insurance	7%	8%	40	9%	49
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Footnotes:

Report for 10 miles Ring Centered at 30.047550,-90.689392

Gramercy, LA 10 mile

Number of TRI Reporting Facili...

17



Number of TRI Reports

1,456



Number of TRI Reporting Years

10



Total RSEI Score

58,825,652



This map allows you to view and select facilities by location. You can further refine your selection (by chemical, year, etc.) using the button at the top right, or click Summary or Analysis at the left to investigate your data further. Click Report for a printable summary of RSEI data for your current selection.

Map Current Selection

Find TRI Facilities Near You

Select Facilities Using Filters

On any map, you can select facilities in several ways:

- Click on one or more of the displayed facility points, then click on the green check mark at the top right to confirm your selection.
- Click the map to activate, then click on the button that will appear at the top of the map. Draw a shape with your cursor around your selection, then click the green check mark to confirm. All of the facilities inside your shape will be selected.

Any map selections will be added to your existing selections. If you have not made any selections, it may take a few seconds to display all facilities on the map.

Use the other two tabs above for additional ways to find facilities.

Map of TRI Facilities



30.04735, -90.68942
Point layer

TRI Facilities
Point layer

Gramercy, LA 8 mile

Number of TRI Reporting Facili...

13



Number of TRI Reports

918



Number of TRI Reporting Years

10



Total RSEI Score
7,919,372



This map allows you to view and select facilities by location. You can further refine your selection (by chemical, year, etc.) using the button at the top right, or click Summary or Analysis at the left to investigate your data further. Click Report for a printable summary of RSEI data for your current selection.

Map Current Selection

Find TRI Facilities Near You

Select Facilities Using Filters

Enter your address below and click "Search" to view TRI facilities near you. Use the slider at the bottom to change the distance from your location.

gramercy, la

Search



Note: this search is based on your current selection. If none of the facilities in your current selection are near the location you entered, you may need to expand your search distance or change your selection.

8

Searching on this tab will add any facilities found to your selection set. If you already have any selections on facilities, those selections will be cleared before the new set of facilities is added. Any other selections (e.g., by year, chemical, industry, etc.) will remain selected, and only facilities that also meet those criteria will be shown on the map.

Map of TRI Facilities



Gramercy, LA 6 mile

Number of TRI Reporting Facili...

9



Number of TRI Reports

743



Number of TRI Reporting Years

10



Total RSEI Score

711,742



This map allows you to view and select facilities by location. You can further refine your selection (by chemical, year, etc.) using the button at the top right, or click Summary or Analysis at the left to investigate your data further. Click Report for a printable summary of RSEI data for your current selection.

Map Current Selection

Find TRI Facilities Near You

Select Facilities Using Filters

Enter your address below and click "Search" to view TRI facilities near you. Use the slider at the bottom to change the distance from your location.

gramercy, la

Search



Note: this search is based on your current selection. If none of the facilities in your current selection are near the location you entered, you may need to expand your search distance or change your selection.

6

Searching on this tab will add any facilities found to your selection set. If you already have any selections on facilities, those selections will be cleared before the new set of facilities is added. Any other selections (e.g., by year, chemical, industry, etc.) will remain selected, and only facilities that also meet those criteria will be shown on the map.

Map of TRI Facilities



Gramercy, LA 4 mile

Number of TRI Reporting Facili...

7



Number of TRI Reports

392



Number of TRI Reporting Years


10



Total RSEI Score

211,888



This map allows you to view and select facilities by location. You can further refine your selection (by chemical, year, etc.) using the  button at the top right, or click Summary or Analysis at the left to investigate your data further. Click Report for a printable summary of RSEI data for your current selection.

Map Current Selection

Find TRI Facilities Near You

Select Facilities Using Filters

Enter your address below and click "Search" to view TRI facilities near you. Use the slider at the bottom to change the distance from your location.

gramercy, la

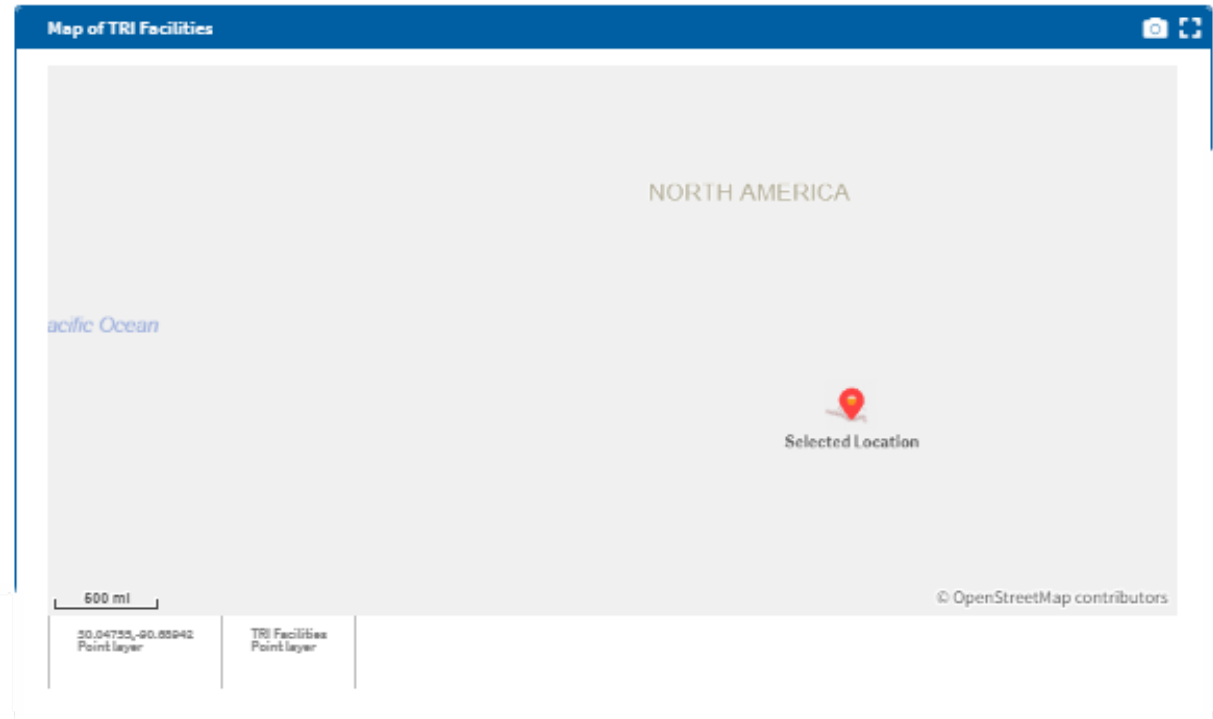
Search



Note: this search is based on your current selection. If none of the facilities in your current selection are near the location you entered, you may need to expand your search distance or change your selection.

4

Searching on this tab will add any facilities found to your selection set. If you already have any selections on facilities, those selections will be cleared before the new set of facilities is added. Any other selections (e.g., by year, chemical, industry, etc.) will remain selected, and only facilities that also meet those criteria will be shown on the map.



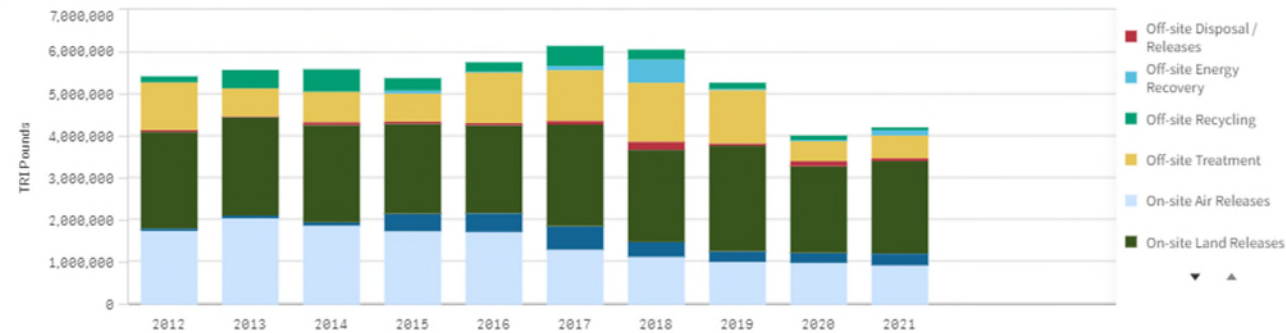
Gramercy, LA Overview

Overview

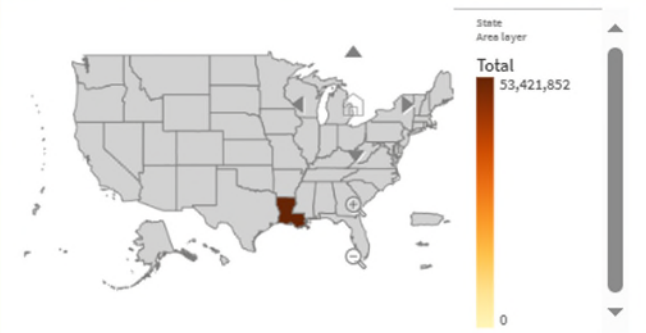
Top Facilities

Industry Sectors

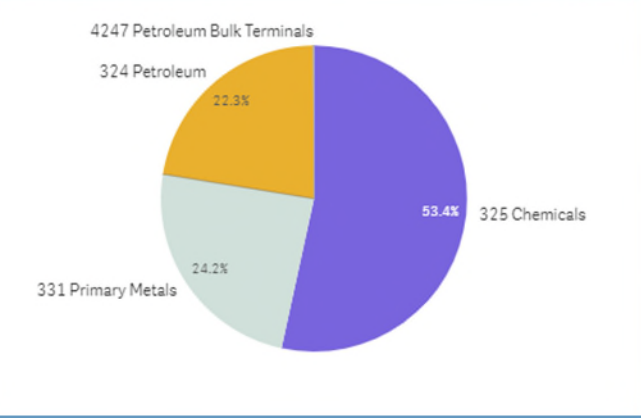
TRI Pounds by Media and Year



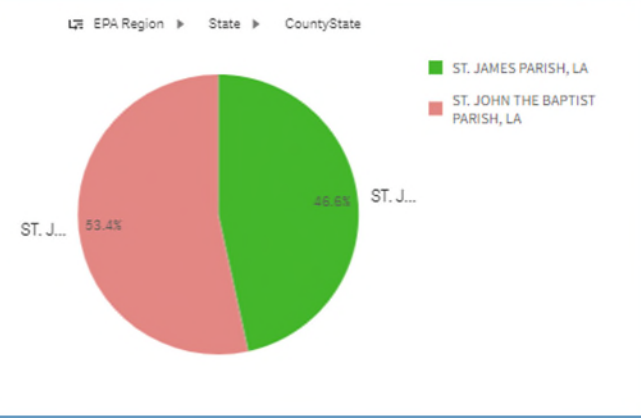
TRI Pounds by State



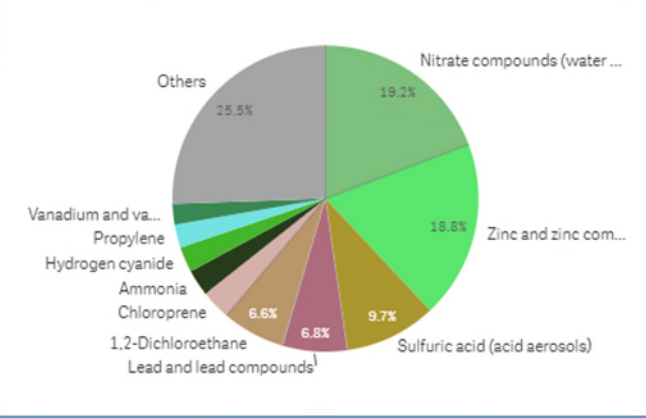
TRI Pounds by Industry



TRI Pounds by Location



TRI Pounds by Chemical



Top Facilities, Gramercy, LA

These pages provide an overview of the data for your selection. Click Analysis at the left to drill down into your data in more detail, or click Report for a printable summary.

Select a value option to change the selection options in the dropdown menu on this page. The default is RSEI Score.

RSEI Values for modeled media only TRI and RSEI Values for all media

TRI Release Options

TRI Pounds 

Overview

Top Facilities

Industry Sectors



TRIFID	Name	City	State	RSEI Score	TRI Pounds	RSEI Facility Report
Totals				58,825,652	53,421,852	
70069DPNTPHIGHW	DUPONT PONTCHARTRAIN WORKS	LA PLACE	LA	29,922,031	11,950,118	Link
7006WDNKPR56HIG	DENKA PERFORMANCE ELASTOMER LLC	LA PLACE	LA	18,938,452	1,032,802	Link
70084LCLCX430NO	EVONIK CORP	RESERVE	LA	7,205,549	1,151,846	Link
70723CCDNTHIGHW	OCCIDENTAL CHEMICAL HOLDING CORP	CONVENT	LA	1,918,846	5,500,650	Link
70051MRTHNHWWY61	MARATHON PETROLEUM CO LP	GARYVILLE	LA	499,841	9,648,844	Link
70052GRMRC114JE	RAIN CII CARBON LLC	GRAMERCY	LA	160,134	2,284,323	Link
70792GRCCHEASTB	MOSAIC FERTILIZER LLC UNCLE SAM PLANT	UNCLE SAM	LA	126,951	4,185,702	Link
70051NLCCRIVER	NALCO CO	GARYVILLE	LA	37,592	1,286,188	Link
70051STCKH3606H	EVONIK CORP	GARYVILLE	LA	4,988	73,523	Link
70052KSRLMAIRLI	NORANDA ALUMINA	GRAMERCY	LA	3,877	12,908,274	Link
7007WCHMPN365HI	CHAMPIONX -- GARYVILLE FACILITY	MOUNT AIRY	LA	3,381	8,210	Link
70084JNSCH520WE	DPC ENTERPRISES LP	RESERVE	LA	2,009	2,004	Link
7007WPNKTR46HIG	MT. AIRY TERMINAL LLC	MOUNT AIRY	LA	1,915	54,285	Link
70084BTZLB500RO	CLARIANT CORP - RESERVE SITE	RESERVE	LA	65	1,915,487	Link
70051PSLNP1EPSI	PINNACLE POLYMERS	GARYVILLE	LA	14	1,027,956	Link
7005WRPRDC4663W	AIR PRODUCTS & CHEMICALS INC - GARYVILLE SMR	GARYVILLE	LA	6	391,634	Link
70052LFRGN14HWY	LAFARGE GRAMERCY RMX	GRAMERCY	LA	1	6	Link

Facility Detail Site 1

Facility ID: 70069DPNTPHIGHW

[How to use this page](#)

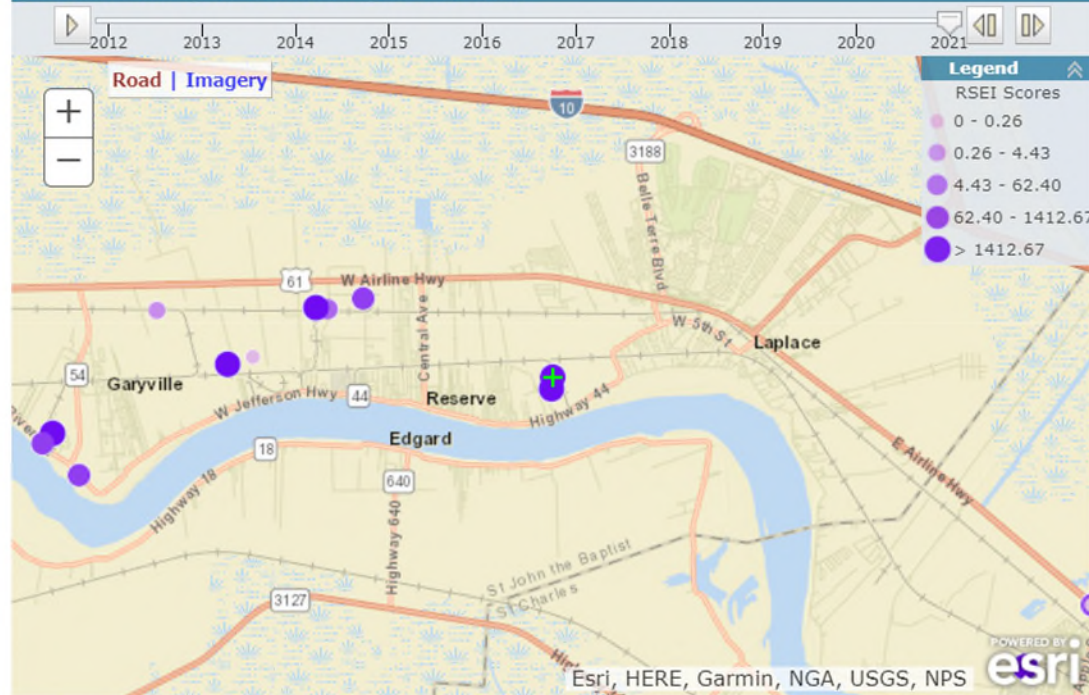
Name: DUPONT PONTCHARTRAIN WORKS

Address: 586 HIGHWAY 44

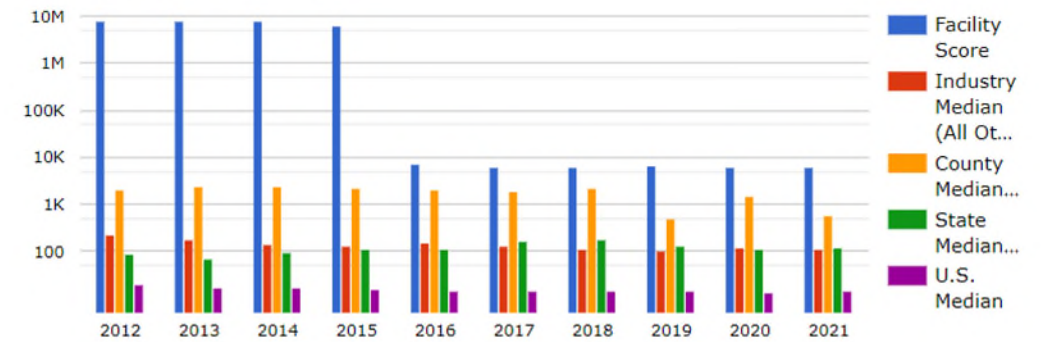
LA PLACE, LA 70068

Industry: All Other Basic Organic Chemical Manufacturing

RSEI Scores RSEI Hazard RSEI Pounds



RSEI Score Comparison



Year	Facility Score	Industry Median (All Other Basic Organic Chemical Manufacturing)	County Median (ST. JOHN THE BAPTIST PARISH)	State Median (LA)	U.S. Median
2012	7,759,731	231	2,031	92	20
2013	7,747,852	174	2,332	69	17
2014	8,003,118	146	2,326	97	17
2015	6,372,518	131	2,199	114	16
2016	7,392	148	2,042	116	15
2017	6,121	129	1,901	170	15
2018	6,130	115	2,193	178	15
2019	6,771	104	483	127	14
2020	6,168	120	1,465	115	13
2021	6,231	108	567	126	14

Industry Sector

TRI Pounds



Overview

Top Facilities

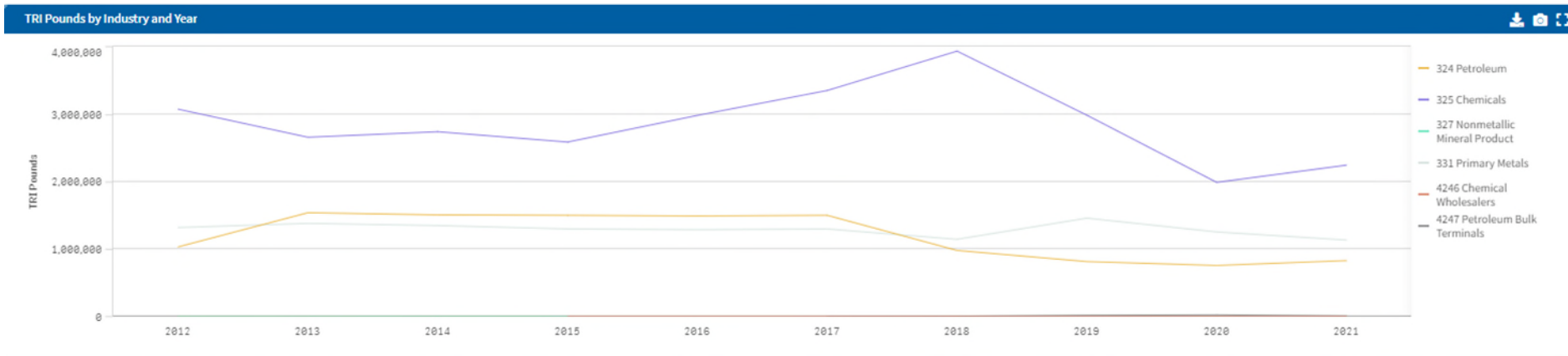
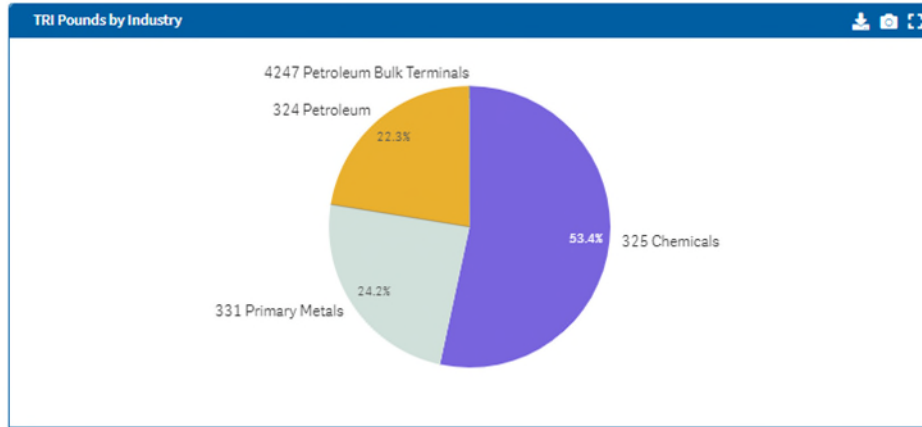
Industry Sectors

Select an industry from the menu below or click on the chart at right. Any filters showing in the selection bar are applied to the data on this page.


- Industry Sector
- 324 Petroleum
 - 325 Chemicals
 - 327 Nonmetallic Mineral Product
 - 331 Primary Metals
 - 4246 Chemical Wholesalers
 - 4247 Petroleum Bulk Terminals
 - 311 Food
 - 313 Textiles
 - 314 Textile Product

- Industry Subsector
- 3241 Petroleum and Coal Product...
 - 3251 Basic Chemical Manufacturi...
 - 3252 Resin, Synthetic Rubber, an...
 - 3253 Pesticide, Fertilizer, and Oth...
 - 3256 Soap, Cleaning Compound, ...
 - 3259 Other Chemical Product an...
 - 3273 Cement and Concrete Prod...
 - 3313 Alumina and Aluminum Pro...
 - 4246 Chemical and Allied Product...

- Primary NAICS Code
- 324110 Petroleum Refineries
 - 324199 All Other Petroleum and ...
 - 325110 Petrochemical Manufactu...
 - 325120 Industrial Gas Manufactur...
 - 325180 Other Basic Inorganic Che...
 - 325181 Alkalies and Chlorine Man...
 - 325199 All Other Basic Organic C...
 - 325211 Plastics Material and Resi...
 - 325212 Synthetic Rubber Manufa...



RESI Data Download

Select at least one dimensions and/or metric option from the left to create a custom table. When selections are complete, use the Download Data  button to download the data shown in the table for your current selection.

Download Data 

Table Dimension Options

- Submission Year
- TRI Facility ID
- TRI Facility Name
- RSEI Media
- State
- County
- FIPS
- EPA Region
- Chemical
- CAS Number
- 2012 Core Chemical Flag
- DCN
- Industry Sector
- NAICS
- New Industry Flag

Table Metric Options

- RSEI Score
- RSEI Score-Cancer
- RSEI Score-Noncancer
- RSEI Modeled Hazard
- RSEI Modeled Pounds

Submission Year	Q	TRI Facility ID	Q	RSEI Score	RSEI Score-Cancer	RSEI Score-Noncancer	RSEI Modeled Hazard	RSEI Modeled Pounds
Totals				58,825,652	58,463,515	344,266	3,697,538,126,816	22,704,356
2014		70069DPNTPHIGHW		8,003,118	7,997,218	4,778	311,612,013,950	433,936
2012		70069DPNTPHIGHW		7,759,731	7,752,679	4,972	298,422,560,313	379,523
2013		70069DPNTPHIGHW		7,747,852	7,741,625	5,141	303,295,729,749	409,570
2015		70069DPNTPHIGHW		6,372,518	6,367,619	3,967	331,929,133,287	372,759
2016		7006WDNKPR56HIG		6,147,510	6,143,158	3,197	288,047,733,792	306,743
2017		7006WDNKPR56HIG		5,350,051	5,345,617	3,025	248,078,770,604	256,878
2018		7006WDNKPR56HIG		1,813,642	1,806,030	2,356	76,700,888,351	86,687
2021		7006WDNKPR56HIG		1,574,488	1,563,305	801	63,683,133,155	71,059
2019		7006WDNKPR56HIG		1,528,486	1,521,122	2,264	63,491,238,515	75,115
2020		7006WDNKPR56HIG		1,498,788	1,487,690	1,067	61,969,895,429	72,443
2014		70084LCLCX430NO		1,028,290	1,028,290	14	36,563,590,945	11,590
2015		7006WDNKPR56HIG		1,025,487	1,024,760	592	48,908,231,281	53,642
2016		70084LCLCX430NO		1,013,492	1,013,492	14	35,375,552,995	12,353
2015		70084LCLCX430NO		990,801	990,801	14	34,828,521,318	10,906
2017		70084LCLCX430NO		813,061	813,060	11	28,288,925,836	9,374
2021		70084LCLCX430NO		619,835	619,834	8	21,837,624,510	11,777
2013		70084LCLCX430NO		589,593	589,593	7	22,576,269,674	7,388
2012		70084LCLCX430NO		567,821	567,821	6	21,948,820,728	7,230
2018		70084LCLCX430NO		548,738	548,738	7	20,024,526,912	10,464
2020		70084LCLCX430NO		529,653	529,653	7	19,043,554,425	10,191
2019		70084LCLCX430NO		504,265	504,265	6	18,239,854,435	8,826
2017		70723CCDNTHIGHW		341,668	341,538	156	239,452,847,621	716,095
2012		70723CCDNTHIGHW		275,300	275,190	113	189,604,531,900	931,679
2018		70723CCDNTHIGHW		266,405	266,294	127	171,124,217,243	453,455
2019		70723CCDNTHIGHW		249,052	248,916	153	157,269,155,207	527,118
2016		70723CCDNTHIGHW		238,378	238,262	138	157,459,482,255	581,206
2020		70723CCDNTHIGHW		139,872	139,773	99	86,320,817,495	292,775
2021		70723CCDNTHIGHW		139,224	139,067	157	83,853,973,697	306,115
2019		70051MRTHNHWWY61		122,288	109,007	17,669	7,064,288,492	691,092
2013		70723CCDNTHIGHW		111,738	111,633	105	72,187,962,679	525,239

CD- Alumina

The data on these pages reflect your current selection (shown in the selection bar above.) If no selection is shown, then this represents the most recent 10 years of TRI-reported data (2012-2021) for the entire U.S.

Refine your selection using the filters, or click on any part of a graph, such as a bar in the bar chart or on an entry in the facility list. Always click the green check mark to confirm a change in your selection.

These pages provide an overview of the data for your selection. Click Analysis at the left to drill down into your data in more detail, or click Report for a printable summary.

Select a value option to change the selection options in the dropdown menu on this page. The default is RSEI Score.

RSEI Values for modeled media only
 TRI and RSEI Values for all media

TRI Release Options

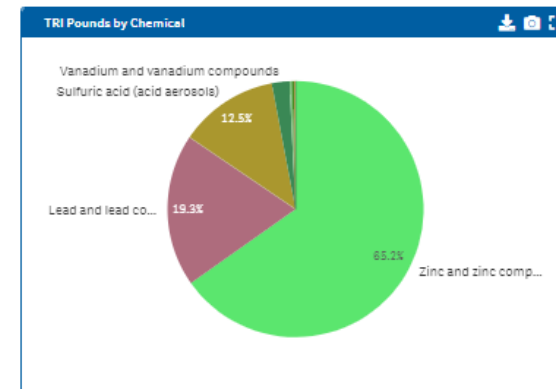
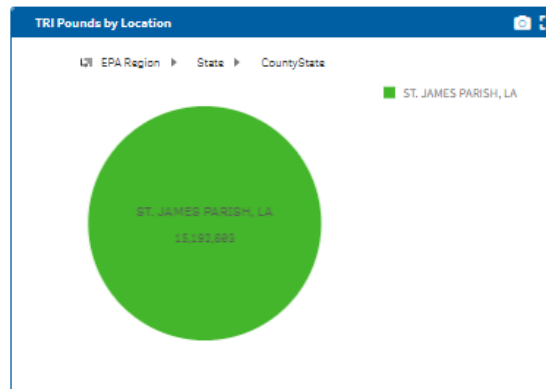
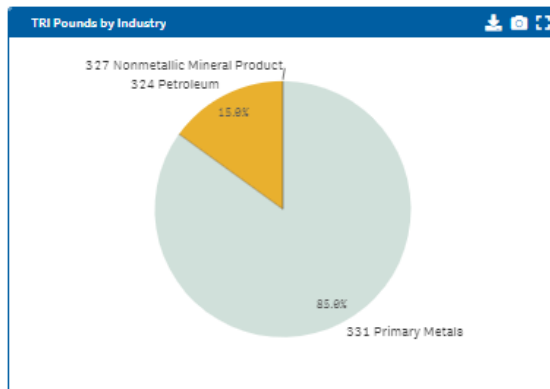
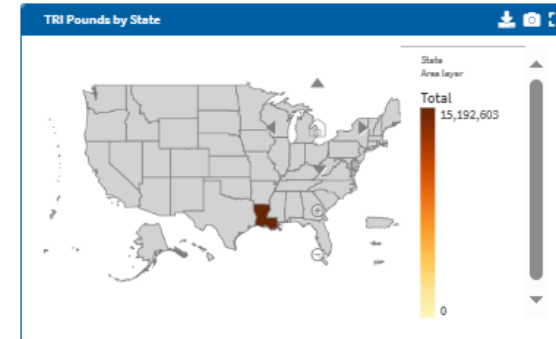
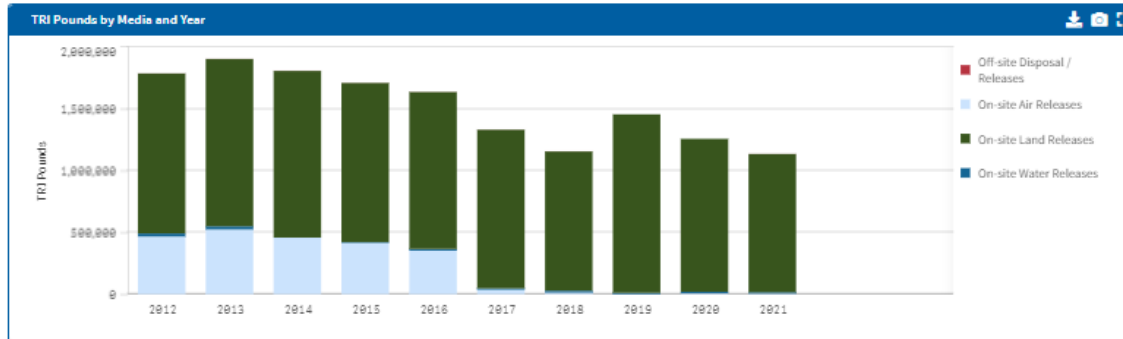
TRI Pounds



Overview

Top Facilities

Industry Sectors



CD- Alumina

Risk-Screening Environmental Indicators (RSEI) is a screening-level model that analyzes factors that contribute to human health risk. These factors include the amount of chemical released, the degree of toxicity, and the size of the exposed population. RSEI calculates scores to highlight releases that would potentially pose greater risk over a lifetime of exposure. Because of data limitations, RSEI is not a substitute for a site-specific risk assessment.

RSEI produces three types of results: pounds-based (releases), hazard-based, and risk-related (score). Use the control at the top of the map to toggle between RSEI Pounds, RSEI Hazard results, and RSEI Score.

- RSEI Pounds - pounds-based results are simply the amount of pounds reported by TRI facilities as released or transferred. Note that pounds in RSEI may differ from TRI pounds because they represent only those pounds modeled in RSEI and not all pounds from all releases.
- RSEI Hazard - hazard-based results are calculated by multiplying the pounds released by the chemical-specific toxicity weight for the exposure route (oral or inhalation) associated with the release. Hazard-based results are only available for chemicals with RSEI toxicity weights and do not include any exposure modeling or population estimates.
- RSEI Score - risk-related results combine surrogate dose with toxicity weight and population estimate, producing a unit-less value or score. Risk-related results are not independently meaningful and should only be used comparatively in relation to other model results.

Facility ID: 70052KSRLMAIRLI

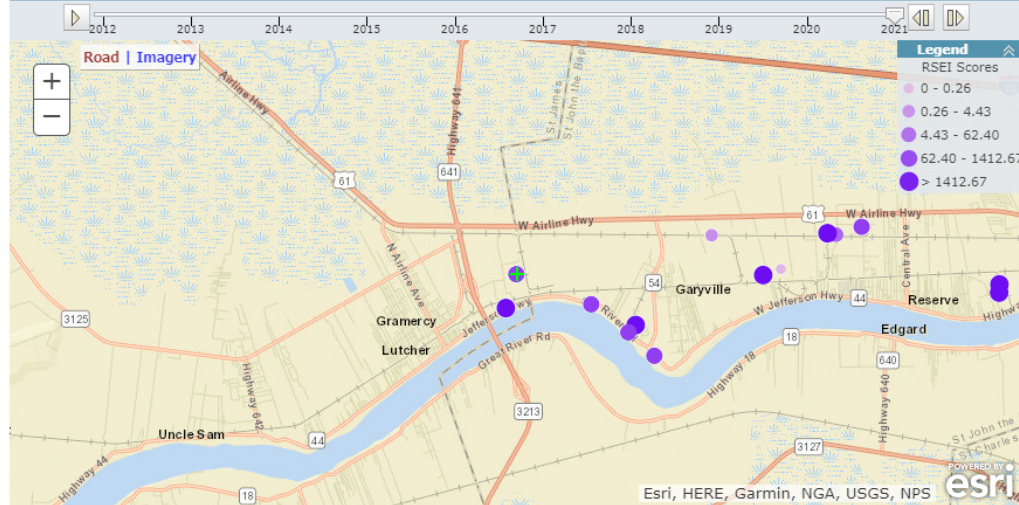
[How to use this page](#)

Name: NORANDA ALUMINA

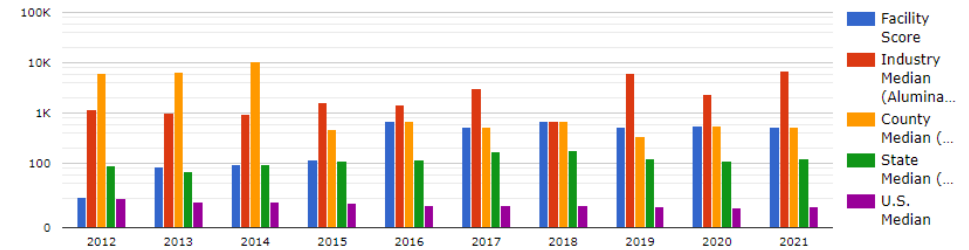
Address: 1111 AIRLINE HWY
GRAMERCY, LA 70052

Industry: Alumina Refining and Primary Aluminum Production

RSEI Scores RSEI Hazard RSEI Pounds



RSEI Score Comparison



Year	Facility Score	Industry Median (Alumina Refining and Primary Aluminum Production)	County Median (ST. JAMES PARISH)	State Median (LA)	U.S. Median
2012	21	1,179	6,207	92	20
2013	87	1,013	6,427	69	17
2014	96	966	10,435	97	17
2015	119	1,604	484	114	16
2016	688	1,473	688	116	15
2017	529	3,022	529	170	15
2018	709	709	709	178	15
2019	521	6,357	344	127	14
2020	563	2,386	563	115	14
2021	543	6,959	543	126	14

CD- Alumina

The data on these pages reflect your current selection (shown in the selection bar above.) If no selection is shown, then this represents the most recent 10 years of TRI-reported data (2012-2021) for the entire U.S.

Refine your selection using the filters, or click on any part of a graph, such as a bar in the bar chart or a row in a table. Always click the green check mark to confirm a change in your selection.

These pages allow you to investigate your data along any dimension. Click Summary at left for a general overview, or click Report for a printable summary.

Analysis Overview

Chemical Analysis

Facility Analysis

Media Analysis

Select a value option to change the selection options in the dropdown menu on this page. The default is RSEI Score.

RSEI Values for modeled media TRI and RSEI Values for all media

TRI Release Options

TRI Pounds



What is included in this table?

This table shows the total score by chemical, media, and facility. Use the + and - to expand or collapse data about each field. You can drag the names of the fields to reorder the row headings. To see other RSEI Values like NonCancer Score or Modeled Hazard in the table, use the RSEI Value Options dropdown on this page or under the ⚙️ button at the top right.

TRI Pounds by Chemical, Media, Facility, and Year

Chemical	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Zinc and zinc compounds	874,712	964,422	1,123,982	879,262	997,251	991,176	1,001,082	1,037,110	1,042,778	995,607
Lead and lead compounds	255,578	285,674	330,833	262,099	297,060	292,216	293,615	306,414	308,043	294,982
Mercury and mercury compounds	1,955	1,883	2,106	1,719	2,207	2,608	2,808	3,089	2,935	1,728
Chlorine	18	14	21	24	21	20	19	21	9	9
Nitrate compounds (water dissociable)	-	-	-	-	-	-	-	500	25,579	25,085

CD- Alumina

The data on these pages reflect your current selection (shown in the selection bar above.) If no selection is shown, then this represents the most recent 10 years of TRI-reported data (2012-2021) for the entire U.S.

Refine your selection using the filters, or click on any part of a graph, such as a bar in the bar chart or a row in a table. Always click the green check mark to confirm a change in your selection.

These pages allow you to investigate your data along any dimension. Click Summary at left for a general overview, or click Report for a printable summary.

Analysis Overview

Chemical Analysis

Facility Analysis

Media Analysis

Select a value option to change the selection options in the dropdown menu on this page. The default is RSEI Score.

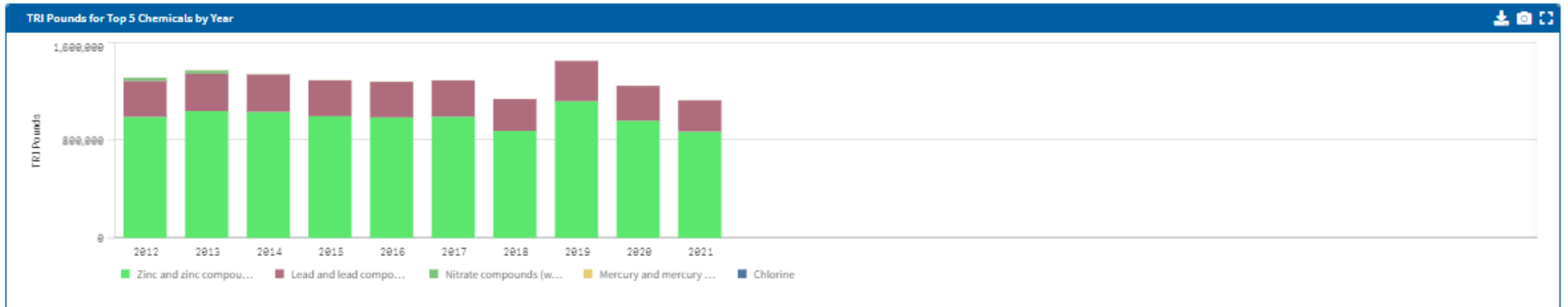
RSEI Values for modeled media TRI and RSEI Values for all media

TRI Release Options

TRI Pounds



What is included in this chart?



Show the media breakdown for these chemicals (all years combined)

Show the facility breakdown for these chemicals (all years combined)

CD- Alumina

The data on these pages reflect your current selection (shown in the selection bar above.) If no selection is shown, then this represents the most recent 10 years of TRI-reported data (2012-2021) for the entire U.S.

Refine your selection using the filters, or click on any part of a graph, such as a bar in the bar chart or a row in a table. Always click the green check mark to confirm a change in your selection.

These pages allow you to investigate your data along any dimension. Click Summary at left for a general overview, or click Report for a printable summary.

Analysis Overview

Chemical Analysis

Facility Analysis

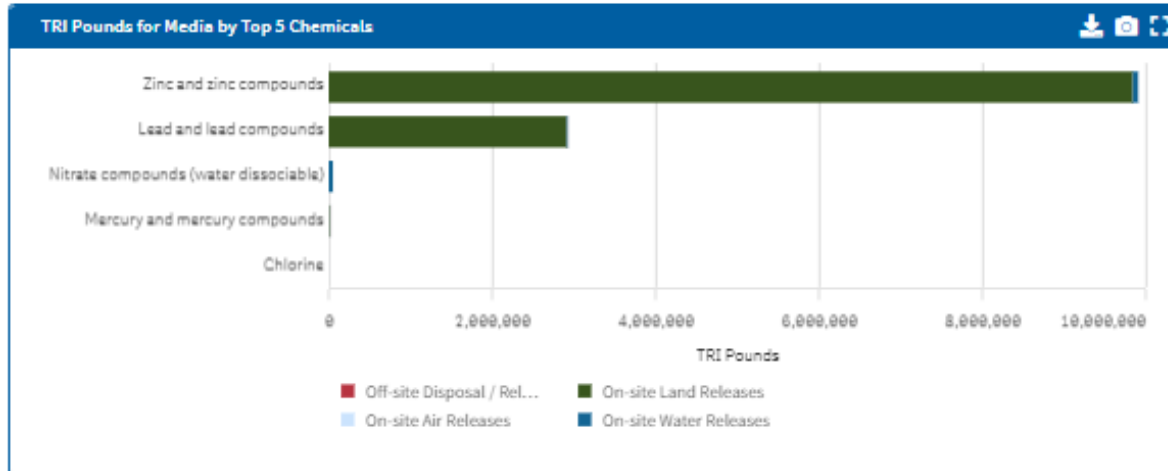
Media Analysis

Select a value option to change the selection options in the dropdown menu on this page. The default is RSEI Score.

RSEI Values for modeled media TRI and RSEI Values for all media

What is included in this chart?

This chart shows the total RSEI value by chemical for the top 5 chemicals, with the media for each chemical shown.



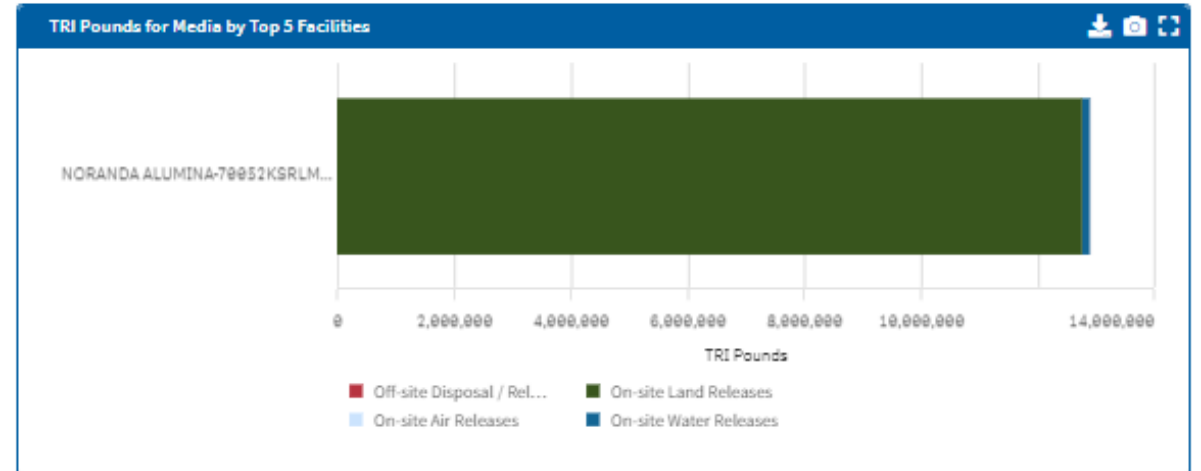
TRI Release Options

TRI Pounds



What is included in this chart?

This chart shows the total RSEI value by facility for the top 5 facilities, with the media for each chemical shown.



CD – Alumina - Transfers

Hazard values on this page and in the Off-Site Report reflect all off-site transfers reported to TRI. Elsewhere in EasyRSEI and in other RSEI data products, off-site transfers to certain incineration facilities that also report on-site releases to TRI are not included, to avoid double-counting the same potential impact. Since on-site releases are not included on this page or in the Off-Site Report, no double-counting is possible, and all transfers are included.

Select waste transfers from TRI-reporting origin facilities in:

Origin State/Territory

Select waste transfers going to receiving facilities in:


Receiving Location

Use the slider at the bottom to change the number of transfers shown on the map, up to a maximum of 1,000.

50

TRI Release Options

TRI Pounds

By default, individual facilities and transfers will show on the map only if one receiving location is selected. To manually show transfers based on your current selection, select the "Show" button below. You can hide them again by clicking the "Hide" button. You can make additional selections, such as for origin location, chemical, industry, and other fields, by using the  icon at the top right.

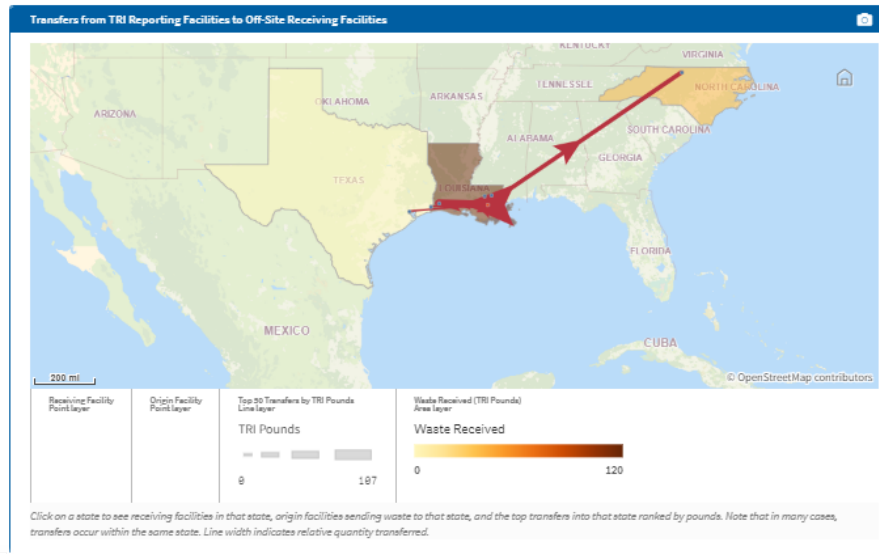
[Click here for more information about how off-site transfers are reported to TRI and modeled in RSEI.](#) For more information about the map below, visit the help page for EasyRSEI.

Display Options for Transfers...

Show Hide

Selections with many transfers included may take some time to show on the map.

Each line on the map below represents transfers from an origin facility to a receiving facility. Hover over a line on the map to see details of the transfers. Click on a line to restrict the charts on this page to just those transfers.



Off-Site Transfers

18

Transfers (TRI Pounds)

160

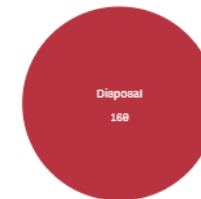
Receiving Facilities

7

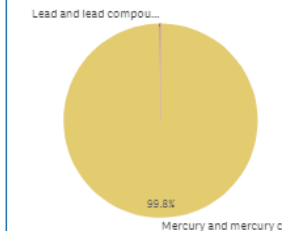
Origin Facilities

1

Waste Transfer Type



Waste Transferred by Chemical



CD – Alumina - Transfers

Key: Individual Transfer Types

■ Recycling
 ■ Energy Recovery
 ■ Treatment
 ■ Disposal
 ■ POTW
 ■ Two or More Types

Transfers Outside U.S. 📄 📷 🗑️



Nor...

Chemical and Transfer Type

Show

Hide

Off-Site Transfers - Origin Facilities by Pounds Sent					
TRIFID	Name	Origin State/Territory	Total Pounds Transferred Off-site	RSEI Hazard (Toxicity-Weighted Pounds)	
Totals			160	1,926,237	
70052KSRLMAIRLI	NORANDA ALUMINA	Louisiana	160	1,926,237	


Off-Site Transfers - Receiving Facilities by Pounds Received					
Off-Site ID	Receiving Name	Receiving Location	Total Pounds Received	RSEI Hazard (Toxicity-Weighted Pounds)	
Totals			160	1,926,237	
994	CHEMICAL WASTE MANAGEMENT	Louisiana	107	1,284,231	
8168	CLEAN HARBORS REIDSVILLE	North Carolina	40	480,000	
31467	LEI	Louisiana	13	156,000	
25842	WST MGMT OF LA WOODSIDE SANI LNDFL AND RECYCLE	Louisiana	0	5,914	
7425	VEOLIA ES TECH SOLUTIONS PORT ARTHUR FACLTY	Texas	0	46	
1008745	CLEAN HARBORS DEER PARK LLC	Texas	0	46	

Some transfers could not be matched to a receiving facility. Total received in this table may not match total transferred.

CD - Alumina RESEI Scores

Select a value option to change the Table Metrics options on this page. The default is RSEI Score.

RSEI Values for **modeled media** TRI and RSEI Values for **all media**

Select at least one dimensions and/or metric option from the left to create a custom table. When selections are complete, use the Download Data  button to download the data shown in the table for your current selection.

Download Data 

Table Dimension Options

- Submission Year
- TRI Facility ID
- TRI Facility Name
- RSEI Media
- State
- County
- FIPS
- EPA Region
- Chemical
- CAS Number
- 2012 Core Chemical Flag
- DCN
- Industry Sector
- NAICS
- New Industry Flag

Table Metric Options

- RSEI Score
- RSEI Score-Cancer
- RSEI Score-Noncancer
- RSEI Modeled Hazard
- RSEI Modeled Pounds

Submis... Year	TRI Facility ID	TRI Facility Name	RSEI Media	Chemical	RSEI Score	RSEI Score- Cancer	RSEI Score- Noncan...	RSEI Modeled Hazard	RSEI Modeled Pounds
Totals					3,877	1,362	3,877	329,036,302	138,643
2018	70052KSRLMAIRLI	NORANDA ALUMINA	Direct Water Releases	Lead and lead compounds	600	283	600	49,723,920	2,762
2016	70052KSRLMAIRLI	NORANDA ALUMINA	Direct Water Releases	Lead and lead compounds	541	255	541	44,818,380	2,490
2020	70052KSRLMAIRLI	NORANDA ALUMINA	Direct Water Releases	Lead and lead compounds	471	222	471	39,002,760	2,167
2019	70052KSRLMAIRLI	NORANDA ALUMINA	Direct Water Releases	Lead and lead compounds	433	205	433	35,910,360	1,995
2017	70052KSRLMAIRLI	NORANDA ALUMINA	Direct Water Releases	Lead and lead compounds	425	201	425	35,178,300	1,954
2021	70052KSRLMAIRLI	NORANDA ALUMINA	Direct Water Releases	Lead and lead compounds	414	195	414	34,286,940	1,905
2018	70052KSRLMAIRLI	NORANDA ALUMINA	Direct Water Releases	Mercury and mercury compounds	94	0	94	1,687,300	169
2016	70052KSRLMAIRLI	NORANDA ALUMINA	Direct Water Releases	Mercury and mercury compounds	84	0	84	1,517,700	152
2020	70052KSRLMAIRLI	NORANDA ALUMINA	Direct Water Releases	Mercury and mercury compounds	75	0	75	1,324,200	132
2014	70052KSRLMAIRLI	NORANDA ALUMINA	Stack Air Releases	Mercury and mercury compounds	72	0	72	14,878,560	1,240
2019	70052KSRLMAIRLI	NORANDA ALUMINA	Direct Water Releases	Mercury and mercury compounds	68	0	68	1,216,500	122
2013	70052KSRLMAIRLI	NORANDA ALUMINA	Stack Air Releases	Mercury and mercury compounds	68	0	68	14,252,400	1,188
2021	70052KSRLMAIRLI	NORANDA ALUMINA	Direct Water Releases	Mercury and mercury compounds	67	0	67	1,179,500	118
2017	70052KSRLMAIRLI	NORANDA ALUMINA	Direct Water Releases	Mercury and mercury compounds	66	0	66	1,191,700	119
2015	70052KSRLMAIRLI	NORANDA ALUMINA	Stack Air Releases	Mercury and mercury compounds	63	0	63	12,942,720	1,079
2016	70052KSRLMAIRLI	NORANDA ALUMINA	Stack Air Releases	Mercury and mercury compounds	56	0	56	11,345,880	945
2021	70052KSRLMAIRLI	NORANDA ALUMINA	Stack Air Releases	Mercury and mercury compounds	56	0	56	10,508,040	876
2015	70052KSRLMAIRLI	NORANDA ALUMINA	Direct Water Releases	Mercury and mercury compounds	50	0	50	898,100	90
2017	70052KSRLMAIRLI	NORANDA ALUMINA	Stack Air Releases	Mercury and mercury compounds	30	0	30	6,059,520	505
2012	70052KSRLMAIRLI	NORANDA ALUMINA	Direct Water Releases	Mercury and mercury compounds	18	0	18	332,600	33
2014	70052KSRLMAIRLI	NORANDA ALUMINA	Direct Water Releases	Mercury and mercury compounds	18	0	18	318,900	32
2013	70052KSRLMAIRLI	NORANDA ALUMINA	Direct Water Releases	Mercury and mercury compounds	16	0	16	282,500	28
2019	70052KSRLMAIRLI	NORANDA ALUMINA	Stack Air Releases	Mercury and mercury compounds	12	0	12	2,392,920	199
2020	70052KSRLMAIRLI	NORANDA ALUMINA	Stack Air Releases	Mercury and mercury compounds	12	0	12	2,328,840	194
2018	70052KSRLMAIRLI	NORANDA ALUMINA	Fugitive Air Releases	Chlorine	8	0	8	460,000	20
2021	70052KSRLMAIRLI	NORANDA ALUMINA	Fugitive Air Releases	Chlorine	7	0	7	377,890	16
2017	70052KSRLMAIRLI	NORANDA ALUMINA	Fugitive Air Releases	Chlorine	6	0	6	391,000	17
2019	70052KSRLMAIRLI	NORANDA ALUMINA	Fugitive Air Releases	Chlorine	6	0	6	379,040	16
2014	70052KSRLMAIRLI	NORANDA ALUMINA	Fugitive Air Releases	Chlorine	6	0	6	391,000	17
2016	70052KSRLMAIRLI	NORANDA ALUMINA	Fugitive Air Releases	Chlorine	6	0	6	368,000	16
2018	70052KSRLMAIRLI	NORANDA ALUMINA	Stack Air Releases	Mercury and mercury compounds	6	0	6	1,181,760	98
2015	70052KSRLMAIRLI	NORANDA ALUMINA	Fugitive Air Releases	Chlorine	6	0	6	345,000	15
2020	70052KSRLMAIRLI	NORANDA ALUMINA	Fugitive Air Releases	Chlorine	4	0	4	254,840	11

CD - Alumina Summary Report

Geographic Report Facility Report Off-Site Report


Print

Summary of Selected Data

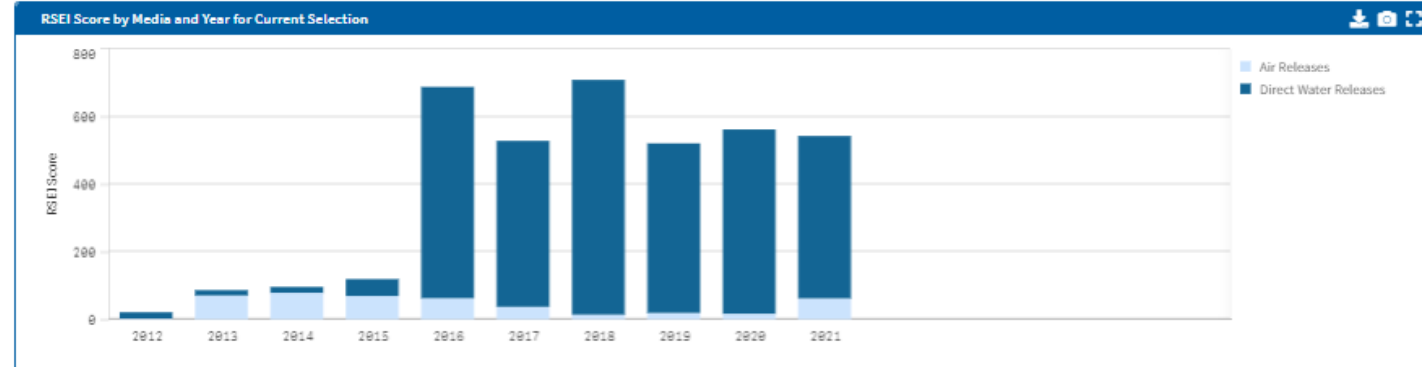
Trend for Selected Data

RSEI scores are estimates of potential human health risk based on modeling of chemical concentrations at specific points in the environment, like in the air around a facility or in the water downstream from a facility.

RSEI uses simplified data for modeling, and this can affect the results. All RSEI results should be followed up with additional analysis before drawing conclusions or making decisions about the potential risk posed to any population. See How RSEI Should Be Used for more information.

Use the filter options under the  icon at the top right to change the value shown in these charts (RSEI Score, RSEI Hazard, etc.).

What is included in this chart?



Overview of Releases and Transfers

RSEI scores only include direct releases to air and water, and transfers off-site to wastewater treatment and incineration. Other types of releases and transfers may also be of concern, so RSEI calculates RSEI Hazard values that reflect the quantity and toxicity of the chemical.

Pounds, RSEI Hazard, and RSEI Score by Media for Current Selection

Media	Pounds Reported to TRI	Pounds Weighted by Chemical Toxicity (RSEI Hazard)	RSEI Score
Air Releases	6,499	79,914,260	435
Land Releases	12,769,470	52,626,393,594	Not modeled
Modeled Off-Site Transfers	0	0	Not modeled
Other Off-Site Transfers	160	1,926,237	Not modeled
Water Releases	132,144	249,122,042	3,442

The category for modeled off-site transfers includes transfers to off-site incineration to facilities that already report to TRI. The value for TRI Pounds includes these transfers, but RSEI drops them before calculating hazard or scores. In the table above, these transfers are included in the first column of values, but not the second or third.

Summary

- ▶ When evaluating impacts within your 3 mile radius, understand which are contributions from your facility and which are from other facilities
- ▶ Understand your RESI score versus pounds emitted to assess the impact of increased expansion emissions
- ▶ Examine the RESI database to see how your facility compares:
 - ❖ To other facilities in your parish, state and country
 - ❖ To other facilities similar to your own
 - ❖ To other facilities within your company

ACTIONS TO CONSIDER

- ▶ Generate the available reports for your facility (emissions, impacts, comparisons including air, water, waste, and compliance)
- ▶ Identify disadvantaged areas identified in the CEJST report
- ▶ Run an EJScreen 2.2 report for your facility
- ▶ Consider using the reports to inform:
 - ❖ Management
 - ❖ Governmental Relations and Public Relations staff, encourage them to consider educating:
 - Parish Government
 - Elected officials