Understanding and Visualizing Air Toxics & Health Information for the State of Louisiana. Sample Data and Instructional Information for Data Gathering

EJSCREEN

According the Environmental Protection Agency's <u>website</u>¹, EJSCREEN is an environmental justice mapping and screening tool that provides EPA with a nationally consistent dataset and approach for combining environmental and demographic indicators. EJSCREEN users choose a geographic area; the tool then provides demographic and environmental information for that area. All of the EJSCREEN indicators are publicly-available data. EJSCREEN simply provides a way to display this information and includes a method for combining environmental and demographic indicators into EJ indexes.

EJSCREEN was used to compare, as an example, the indexes from St. John the Baptist Parish to the rest of Louisiana, as well as to EPA Region 4². EJSCREEN incorporates and evaluates data from the National Air Toxics Assessment³ (NATA) which provides estimates of the risk of cancer and other serious health effects from breathing (inhaling) air toxics. In our example, and according to the EJ Index for NATA Air Toxics Cancer Risk, *St. John the Baptist Parish is among the 99th Percentile compared to the rest of the State, 97th Percentile compared to Region 6, and in the 98th Percentile as compared to the rest of the <i>United States*. Use EJSCREEN to compare other areas in Louisiana and across the Nation.

NATA App

Available from the NATA App webpage⁴, the 2011 NATA app is a mapping application available on the web and on mobile devices that displays risks, emissions, and monitoring data on a map. It allows the querying and downloading of data and information on the contributions to risk from source groups and pollutants are presented. In our example for instructional purposes, according to the NATA Total Risk, based on the 2011 National Emissions Inventory *St. John the Baptist Parish has a cancer risk factor of 2989 in one million (0.002989).*

Detailed examples and instructions, utilizing St. John the Baptist Parish, on how to run the NATA App and EJSCREEN are provided herein.

¹ https://www.epa.gov/ejscreen

² EPA Region 6 consists of New Mexico, Texas, Oklahoma, Arkansas, and Louisiana.

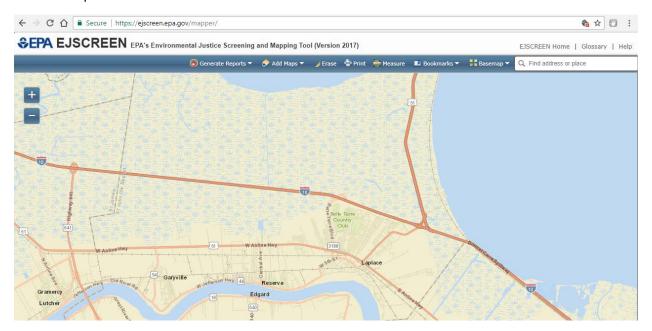
³ The National-Scale Air Toxics Assessment (NATA) is EPA's ongoing, comprehensive evaluation of air toxics in the United States. EPA developed the NATA to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that NATA provides broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the NATA analysis can be found at: https://www.epa.gov/national-air-toxics-assessment.

⁴ https://www.epa.gov/national-air-toxics-assessment/2011-nata-map

Utilizing EJSCREEN

This set of instructions is meant to provide a brief introduction in order to utilize EJSCREEN to obtain the reports and information. In this example, we randomly selected St. John the Baptist Parish, Louisiana. Additional functionality of EJSCREEN can be found at https://www.epa.gov/ejscreen/learn-use-ejscreen.

Navigate to https://ejscreen.epa.gov/mapper/ to launch the application. Zoom into an area near St. John the Baptist Parish.



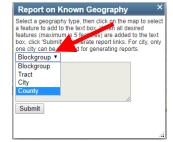
Click on the Generate Reports dropdown arrow near the top of the screen



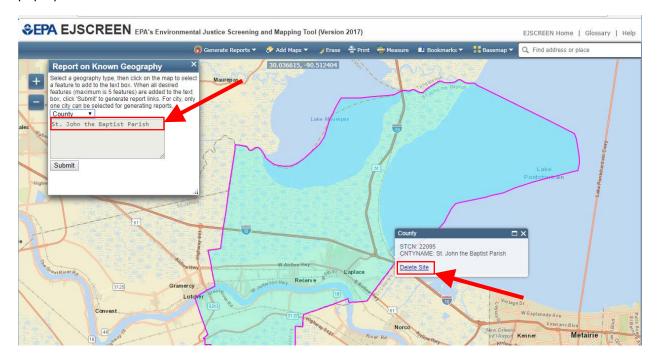
Then click on Report on Known Geography to bring up the dialog box.



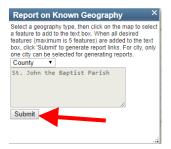
Using the dropdown arrow, select County



On the map, click any point within the Parish to select it. You will notice that the Parish has been highlighted, the name appears in the *Report on Known Geography* dialog box and that a pop-up indicating the Parish has shown up. If you selected the wrong area, simply click on *Delete Site* on the pop-up.



To access the reports, simply click on the *Submit* button. It is worth noting that you can add additional Parishes to the area, or redefine the areas based on census blockgroups, tracts, or city boundaries as well.



In the Chart or Report dialog box, click on the different reports to access and

explore information. These are the same reports as provided earlier.

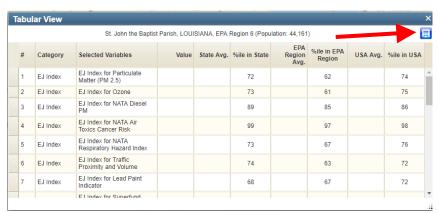


By clicking Explore Reports, you can compare the Indicators and the Indexes on screen. Additionally, you



can see the actual numbers used to create the chart by clicking on *Get Data Table*. Checking the boxes between the 3 different Percentiles will provide a comparative view of the Parish assessed against the State, Region 4 and the United States.

The resultant table is then also able to be exported to Excel by clicking on the upper right blue icon.





EJSCREEN ACS Summary Report



Location: St. John the Baptist Parish

Ring (buffer): 0-mile radius

Description:

Summary of ACS Estimates	2011 - 2015
Population	44,161
Population Density (per sq. mile)	206
Minority Population	27,373
% Minority	62%
Households	15,332
Housing Units	17,584
Housing Units Built Before 1950	1,257
Per Capita Income	22,660
Land Area (sq. miles) (Source: SF1)	214.31
% Land Area	52%
Water Area (sq. miles) (Source: SF1)	195.55
% Water Area	48%

70 Water Area			40%
	2011 - 2015 ACS Estimates	Percent	MOE (±)
Population by Race			
Total	44,161	100%	0
Population Reporting One Race	43,367	98%	1,163
White	18,573	42%	306
Black	23,999	54%	321
American Indian	30	0%	50
Asian	210	0%	104
Pacific Islander	120	0%	184
Some Other Race	435	1%	198
Population Reporting Two or More Races	794	2%	270
Total Hispanic Population	2,333	5%	0
Total Non-Hispanic Population	41,828		
White Alone	16,788	38%	113
Black Alone	23,942	54%	310
American Indian Alone	30	0%	50
Non-Hispanic Asian Alone	210	0%	104
Pacific Islander Alone	120	0%	184
Other Race Alone	154	0%	123
Two or More Races Alone	584	1%	233
Population by Sex			
Male	21,467	49%	91
Female	22,694	51%	91
Population by Age			
Age 0-4	2,984	7%	113
Age 0-17	11,256	25%	516
Age 18+	32,905	75%	812
Age 65+	5,282	12%	365

Data Note: Detail may not sum to totals due to rounding. Hispanic population can be of any race. N/A means not available. **Source:** U.S. Census Bureau, American Community Survey (ACS) 2011 - 2015.

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EJSCREEN ACS Summary Report



Location: St. John the Baptist Parish

Ring (buffer): 0-mile radius

Description:

	2011 - 2015 ACS Estimates	Percent	MOE (±)
Population 25+ by Educational Attainment			
Total	28,691	100%	120
Less than 9th Grade	1,475	5%	275
9th - 12th Grade, No Diploma	3,502	12%	446
High School Graduate	10,766	38%	615
Some College, No Degree	8,204	29%	590
Associate Degree	1,680	6%	287
Bachelor's Degree or more	4,744	17%	475
Population Age 5+ Years by Ability to Speak English			
Total	41,177	100%	76
Speak only English	38,797	94%	332
Non-English at Home ¹⁺²⁺³⁺⁴	2,380	6%	340
¹ Speak English "very well"	1,435	3%	279
² Speak English "well"	504	1%	219
³ Speak English "not well"	334	1%	146
⁴Speak English "not at all"	107	0%	70
3+4Speak English "less than well"	441	1%	160
²⁺³⁺⁴ Speak English "less than very well"	945	2%	270
Linguistically Isolated Households*			
Total	227	100%	114
Speak Spanish	209	92%	109
Speak Other Indo-European Languages	16	7%	19
Speak Asian-Pacific Island Languages	2	1%	8
Speak Other Languages	0	0%	25
Households by Household Income			
Household Income Base	15,332	100%	348
< \$15,000	1,947	13%	289
\$15,000 - \$25,000	1,878	12%	323
\$25,000 - \$50,000	3,644	24%	452
\$50,000 - \$75,000	3,084	20%	407
\$75,000 +	4,779	31%	493
Occupied Housing Units by Tenure			
Total	15,332	100%	348
Owner Occupied	11,682	76%	431
Renter Occupied	3,650	24%	365
Employed Population Age 16+ Years			
Total	34,272	100%	152
In Labor Force	21,670	63%	561
Civilian Unemployed in Labor Force	1,999	6%	321
Not In Labor Force	12,602	37%	558

Data Note: Detail may not sum to totals due to rounding. Hispanic population can be of any race. N/A means not available. **Source:** U.S. Census Bureau, American Community Survey (ACS) 2011 - 2015.

*Households in which no one 14 and over speaks English "very well" or speaks English only.

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EJSCREEN ACS Summary Report



Location: St. John the Baptist Parish

Ring (buffer): 0-mile radius

Description:

Delation by Language Spoken at Home* all (persons age 5 and above)		2011 - 2015 ACS Estimates	Percent	MOE (±)
A	ulation by Language Spoken at Home*			
Spanish 1,709 4% 2 French 266 1% 1 French Creole 111 0% Italian 0 0% Portuguese 0 0% German 37 0% Yiddish 0 0% Other West Germanic 0 0% Scandinavian 0 0% Greek 0 0% Greek 0 0% Russian 0 0% Serbo-Croatian 0 0% Other Slavic 15 0% Armenian 29 0% Persian 0 0% Gujarathi 0 0% Hindi 141 0% 1 Urdu 0 0% 0 Other Indic 0 0% 0 Other Indic 0 0% 0 Other Indo-European 0 0% 0 K		41,177	100%	76
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French Creole 11 0% Italian 0 0% Portuguese 0 0% German 37 0% Yiddish 0 0% Other West Germanic 0 0% Scandinavian 0 0% Greek 0 0% Russian 0 0% Polish 0 0% Serbo-Croatian 0 0% Other Slavic 15 0% Armenian 29 0% Persian 0 0% Gujarathi 0 0% Hindi 141 0% 1 Urdu 0 0% Other Indic 0 0% Other Indic 0 0% Other Indo-European 0 0% Korean 0 0% Korean 0 0% Homong 0 0% Thai 0 <td< td=""><td>Spanish</td><td></td><td></td><td>272</td></td<>	Spanish			272
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Navajo 0 0% Other Native American 0 0% Hungarian 0 0% Arabic 25 0% Hebrew 0 0% African 0 0% Other and non-specified 0 0%				143
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Hebrew 0 0% African 0 0% Other and non-specified 0 0%				36
African 0 0% Other and non-specified 0 0%				25
Other and non-specified 0 0%				25
				25
	Total Non-English	2,380	6%	360

Data Note: Detail may not sum to totals due to rounding. Hispanic population can be of any race. N/A means not available. **Source:** U.S. Census Bureau, American Community Survey (ACS) 2011 - 2015.

*Population by Language Spoken at Home is available at the census tract summary level and up.

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EJSCREEN Census 2010 Summary Report



Location: User-specified point center at 30.050794, -90.551635

Ring (buffer): 1-mile radius

Description:

Gummary		Census 2010
Population		3,224
Population Density (per sq. mile)		1,620
Minority Population		1,637
% Minority		51%
Households		1,232
Housing Units		1,397
Land Area (sq. miles)		1.99
% Land Area		83%
Water Area (sq. miles)		0.41
% Water Area		17%
Population by Race	Number	Percent
Total	3,224	
Population Reporting One Race	3,189	99%
White	1,620	50%
Black	1,528	47%
American Indian	6	0%
Asian	8	0%
Pacific Islander	3	0%
Some Other Race	23	1%
Population Reporting Two or More Races	35	1%
Total Hispanic Population	73	2%
Total Non-Hispanic Population	3,151	98%
White Alone	1,587	49%
Black Alone	1,515	47%
American Indian Alone	5	0%
Non-Hispanic Asian Alone	8	0%
Pacific Islander Alone	3	0%
Other Race Alone	3	0%
Two or More Races Alone	30	1%
Population by Sex	Number	Percent
Male	1,578	49%
Female	1,646	51%
Population by Age	Number	Percent
Age 0-4	247	8%
Age 0-17	847	26%
Age 18+	2,377	74%
Age 65+	439	14%
Households by Tenure	Number	Percent
Total	1,232	

Data Note: Detail may not sum to totals due to rounding. Hispanic population can be of any race. **Source:** U.S. Census Bureau, Census 2010 Summary File 1.

Owner Occupied

Renter Occupied

75%

25%

922

310



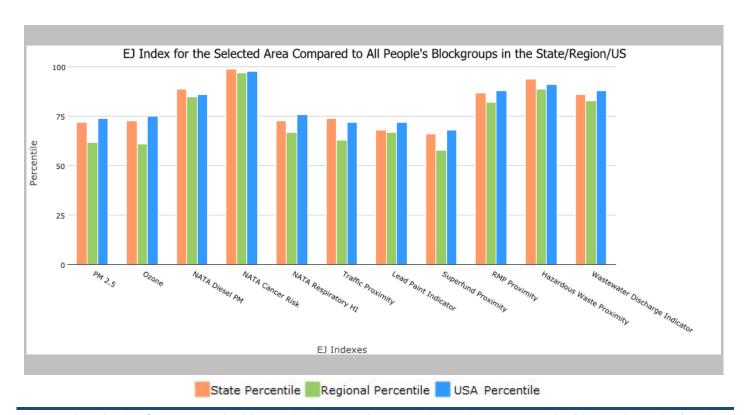
EJSCREEN Report (Version 2017)



County: St. John the Baptist Parish, LOUISIANA, EPA Region 6

Approximate Population: 44,161 Input Area (sq. miles): 409.85

Selected Variables	State Percentile	EPA Region Percentile	USA Percentile
EJ Indexes			
EJ Index for PM2.5	72	62	74
EJ Index for Ozone	73	61	75
EJ Index for NATA* Diesel PM	89	85	86
EJ Index for NATA* Air Toxics Cancer Risk	99	97	98
EJ Index for NATA* Respiratory Hazard Index	73	67	76
EJ Index for Traffic Proximity and Volume	74	63	72
EJ Index for Lead Paint Indicator	68	67	72
EJ Index for Superfund Proximity	66	58	68
EJ Index for RMP Proximity	87	82	88
EJ Index for Hazardous Waste Proximity	94	89	91
EJ Index for Wastewater Discharge Indicator	86	83	88



This report shows the values for environmental and demographic indicators and EJSCREEN indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

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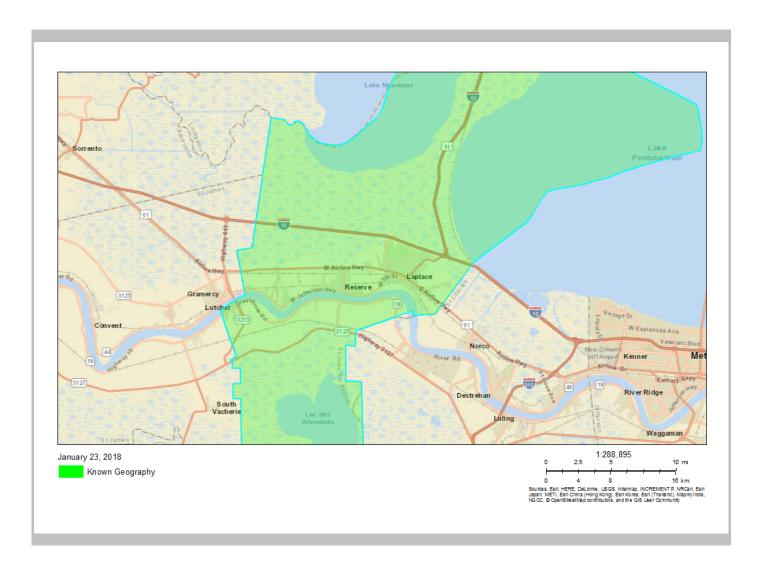


EJSCREEN Report (Version 2017)



County: St. John the Baptist Parish, LOUISIANA, EPA Region 6

Approximate Population: 44,161 Input Area (sq. miles): 409.85



Sites reporting to EPA	
Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	1

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EJSCREEN Report (Version 2017)



County: St. John the Baptist Parish, LOUISIANA, EPA Region 6

Approximate Population: 44,161 Input Area (sq. miles): 409.85

Selected Variables	Value	State Avg.	%ile in State	EPA Region Avg.	%ile in EPA Region	USA Avg.	%ile in USA
Environmental Indicators							
Particulate Matter (PM 2.5 in µg/m³)	8.22	8.67	35	9.15	20	9.14	26
Ozone (ppb)	37.3	36.7	65	40.2	26	38.4	41
NATA* Diesel PM (μg/m³)	2.18	0.889	93	0.721	95-100th	0.938	90-95th
NATA* Cancer Risk (lifetime risk per million)	250	49	99	42	95-100th	40	95-100th
NATA* Respiratory Hazard Index	2	1.9	64	1.8	70-80th	1.8	60-70th
Traffic Proximity and Volume (daily traffic count/distance to road)	85	250	57	320	49	590	48
Lead Paint Indicator (% Pre-1960 Housing)	0.14	0.22	50	0.18	62	0.29	42
Superfund Proximity (site count/km distance)	0.022	0.083	26	0.078	30	0.13	19
RMP Proximity (facility count/km distance)	1.8	0.89	83	0.8	87	0.73	89
Hazardous Waste Proximity (facility count/km distance)	0.27	0.076	96	0.083	95	0.093	94
Wastewater Discharge Indicator (toxicity-weighted concentration/m distance)	0.0035	0.44	75	0.37	77	30	75
Demographic Indicators							
Demographic Index	51%	40%	68	45%	61	36%	73
Minority Population	62%	41%	73	50%	62	38%	75
Low Income Population	39%	40%	51	39%	52	34%	62
Linguistically Isolated Population	1%	2%	69	6%	43	5%	52
Population With Less Than High School Education	17%	17%	57	17%	59	13%	71
Population Under 5 years of age	7%	7%	55	7%	50	6%	59
Population over 64 years of age	12%	13%	46	12%	55	14%	46

^{*} The National-Scale Air Toxics Assessment (NATA) is EPA's ongoing, comprehensive evaluation of air toxics in the United States. EPA developed the NATA to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that NATA provides broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the NATA analysis can be found at: https://www.epa.gov/national-air-toxics-assessment.

For additional information, see: www.epa.gov/environmentaljustice

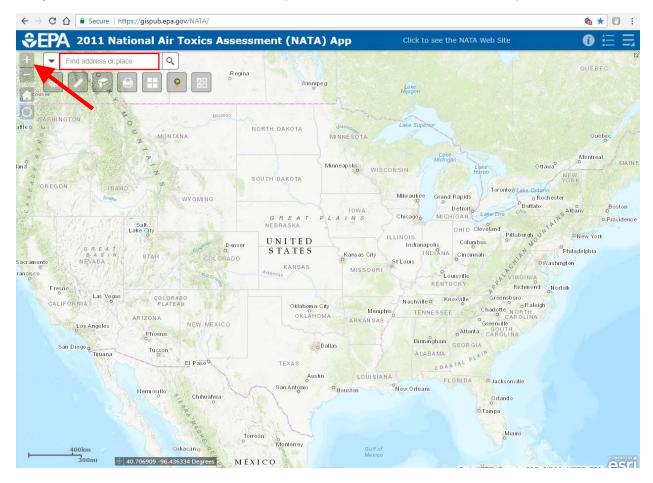
EJSCREEN is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJSCREEN outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.

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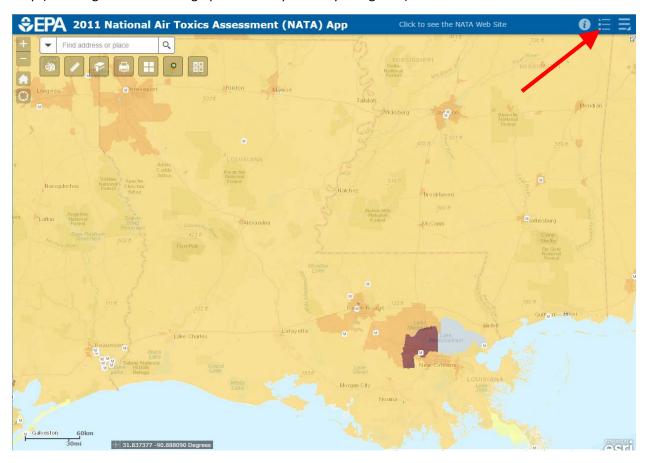
Utilizing the 2011 National Air Toxics Assessment (NATA) App

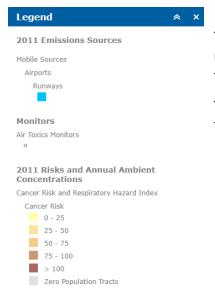
This set of instructions is meant to provide a brief introduction in order to utilize the 2011 National Air Toxics Assessment (NATA) App to obtain the reports and information. In this, we've randomly selected St. John the Baptist Parish, Louisiana to serve as an example dataset. Additional functionality of the NATA Map can be found at https://www.epa.gov/national-air-toxics-assessment/2011-nata-map.

Navigate to https://gispub.epa.gov/NATA/ to launch the application. Zoom into Louisiana by either using the plus (+) button OR by typing "Louisiana" in the search bar and hitting enter OR by using mouse to navigate in/out (middle scroll button) and to pan around (left click and hold) the map.



After zooming into Louisiana, you will notice that a transparent layer is now visible over the map. To understand what this information is showing, click on the *Legend* icon located on the top right of the map (hovering over it will bring up a screen tip that says "Legend").





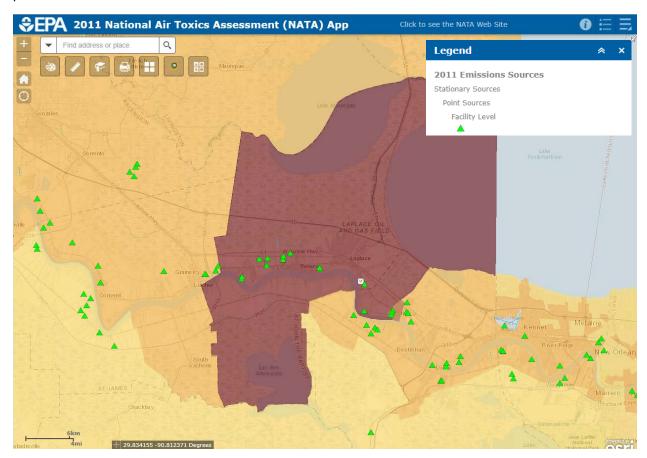
The legend shows you that the light yellow to dark brown scale represents the 2011 cancer risks. You also see the locations of air toxics monitors on the map as represented by an "M".

You can leave the legend open, or it can be minimized by clicking on the double chevron symbol on the legend box.



¹ It is important to remember that NATA provides broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations.

Zooming in further to the Parish of St. John the Baptist, another layer of data becomes visible as neon green triangles. If you closed the legend, reopen it to see that these triangles are representing facility point sources.



At this point, click on an individual triangle to bring up an information box.



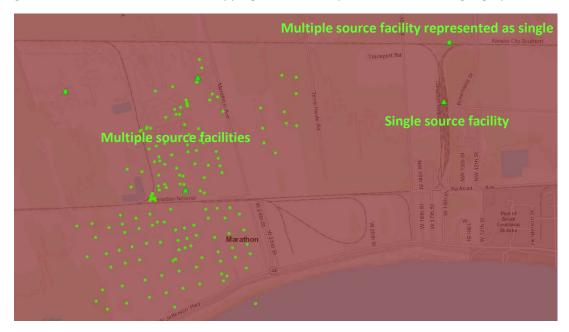
You will see that on the box it says "(1 of 2)"; this is because it is providing information on both of the layers that have data associated with them. The first is a facility, the second being the total cancer risk. You can change between the two by using the arrows at the top of the box.



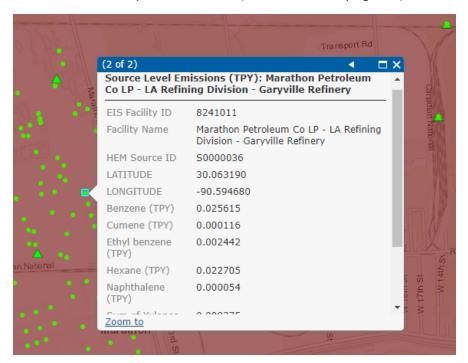


Scroll through the information to reveal facility name, location, and toxic emissions in Tons per Year (TPY). Also, when risk is selected, to identify risks by category.

Next, zoom into one or more of the facilities. Some facilities have multiple sources that contribute to the overall emissions at the facility; likewise, some facilities only have one source. Individual sources are represented by neon green circles. Note that also multiple sources may be look as if identified by one green circle, but in fact have overlapping circles as they are all in the same geographic location.



Just as clicking on a facility provided detailed information, clicking on a single source provides emissions information for that particular source (and other underlying data).



Querying Data

One of the most powerful tools that is available through the NATA App is the ability to query data. You have the ability to query monitors, emissions, and risks. Click on the *More* menu button at the top right corner of the app. Also, notice that the *More* menu will activate the quick menu to the left of it; enabling a quick launch from whatever was last selected from the *More* menu.



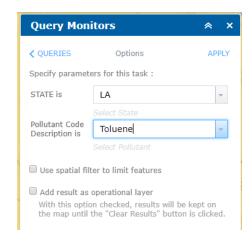
Selecting *Query Emissions* will allow you to see the amount of emissions by either facility or individual source, or by all facilities located within an area you define.

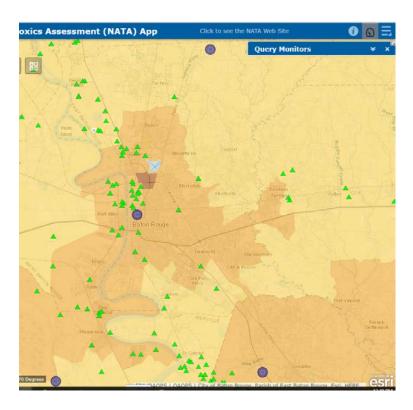


In the below Emissions Query example, we've identified 8 facilities emitting within the current map view:

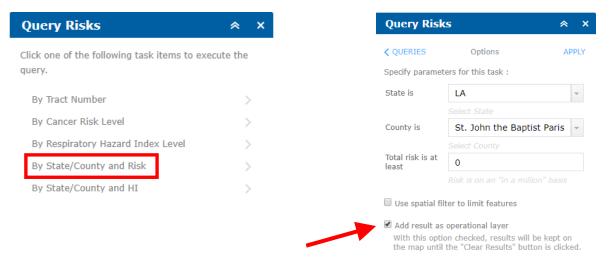


Clicking *Query* Monitors will prompt for individual pollutants and see their location, AQS info, concentrations, risks and more. An example of looking for all the Toluene monitors within Louisiana can be seen in the below screenshot. Running the operation results in identifying (and highlighting in purple) 4 Toluene monitors.

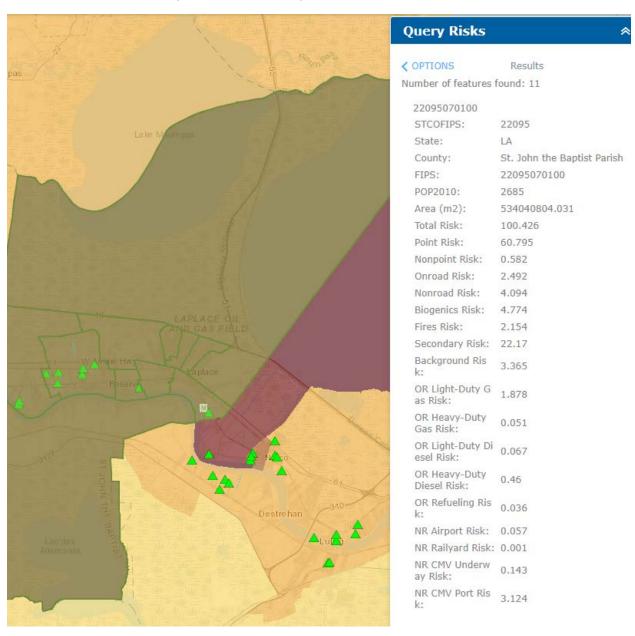




Running a *Query Risk* allows you to screen risks by 5 different categories. In the below example, a selection of *By State/County and Risk* was selected and run. Selecting *Add result as operational layer* will enable the data to viewed in tabular format, thereby being also able to be exported as a .csv.



The resultant information is provided as an example here



Risks are presented here as estimates on a per million basis. For example, a cancer risk of 10 means the estimated lifetime risk of cancer is 10 in a million (that is, the estimated probability of getting cancer is 0.00001). EPA typically assumes a linear relationship between the level of exposure and the lifetime probability of cancer from an air toxics compound. It expresses this dose-response relationship for cancer in terms of a unit risk estimate.

By clicking on the *Layer List* under the *More* menu option, you can see that the Query Result you just ran is an available layer.





Then by clicking on the dropdown arrow next to the layer, you can select *Open Attribute Table*.

This displays the information at the bottom of the screen. By clicking *Options*, you can export to a .csv file.

