

EJSCREEN
EPA's Environmental
Justice Screening Tool



#### **EJSCREEN**

## EPA'S ENVIRONMENTAL SCREENING TOOL

## Overview of the Presentation

**EJSCREEN Background** 

Data in EJSCREEN

**EJSCREEN Maps and Reports** 

How is EJSCREEN Used?

Future of EJSCREEN

Demo of New features in the tool



## **About Vulnerability**

How we...

are born

grow

live

learn

work

play



Race

Ethnicity

Social Standing

Income

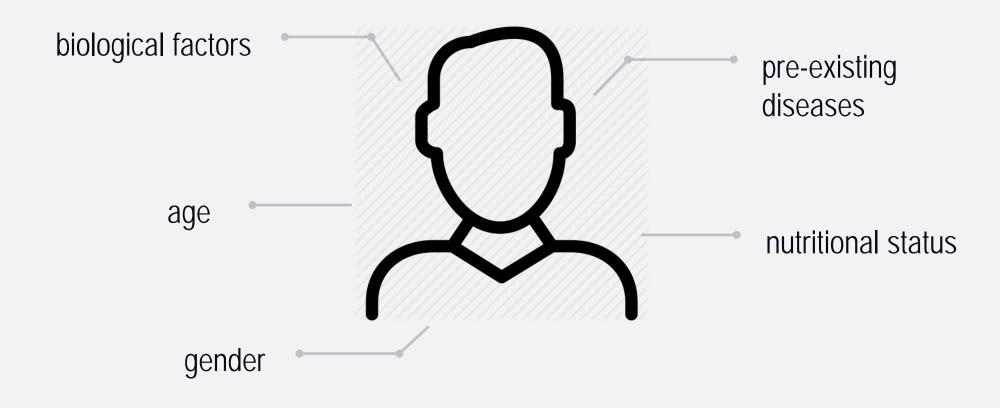
Education



determinants

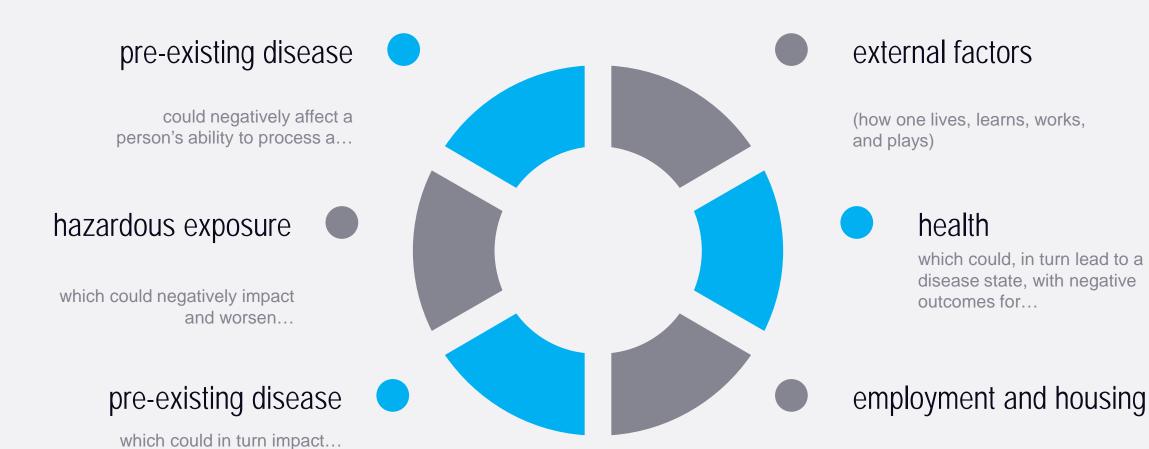


#### About Susceptibility





## Vulnerability factors shape susceptibility





leading a person to potentially unhealthy housing, negatively impacting...

## | EJSCREEN | Key Features





#### **EJ Indexes**

Combine demographic and environmental data to highlight vulnerable/susceptible populations



#### **Annually Updated Data**

from most recent U.S. Census Bureau American Community Survey (ACS).



#### Accessible and Intuitive

Standard printable reports, maps, and bar graphs



#### High Resolution Data

Census block group and tracts for units of analysis



## Timeline on EJSCREEN Development

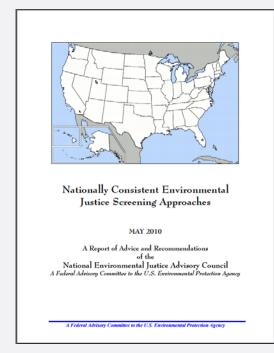
**2010**: EPA begins building nationally consistent EJ screening tool

2011: Commitment made in Plan EJ 2014

2011: National Environmental Justice
Advisory Committee report released on
EJ screening methods

2013: Peer reviewed by experts in 2013

2015: Released to public in 2015



Click to read the full NEJAC report



## EJSCREEN Post Release Public Engagement

- Collected hundreds of public comments
- Engaged extensively with stakeholders and experts
- Presented at conferences, workshops, trainings
- All changes to tool grounded in feedback from public



EPA's Chuck Swanson presenting EJSCREEN to EJ stakeholders



## Understand these caveats before using

- EJSCREEN does not identify "EJ communities."
- Environmental indicators are mostly screening-level proxies for actual exposure or risk.
- Indicators vary in vintage. Estimates are based on historical data.
   and may not reflect current or future conditions.
- EJSCREEN does not cover all environmental issues.



## UNITS OF ANALYSIS

#### **United States**

#### State

primary governmental divisions of the United States.

#### County

Largest divisions within states.

#### Census Tract

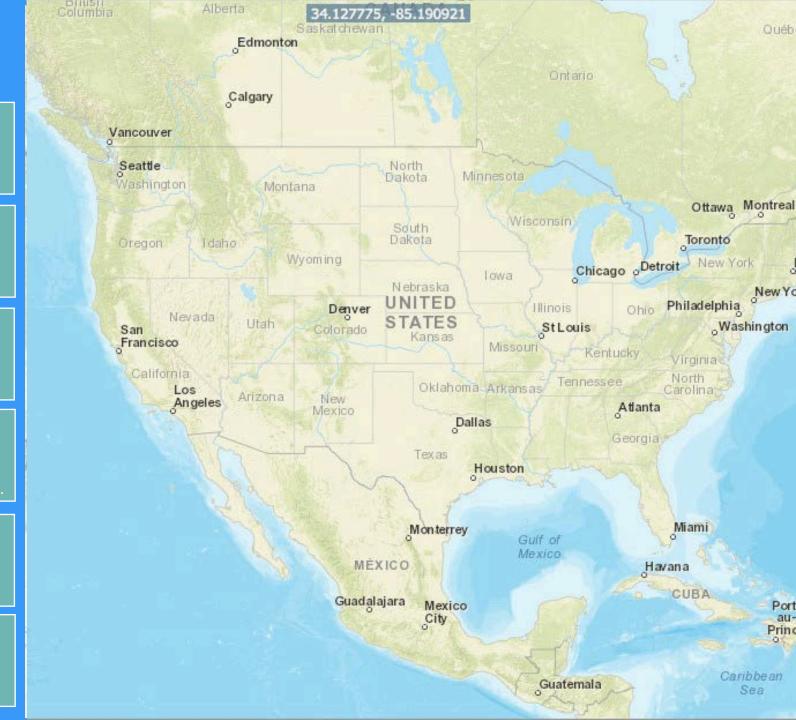
Collection of Census block groups, mostly between 1,200 and 8,000 people.

#### **Block Group**

Collection of residential blocks, mostly, between 600 and 3,000 people.

#### Block

Residential block, bounded on all sides by streets.



### | Demographic | Indicators



Indicator: Individuals over age 64

Date: 2010 - 2014

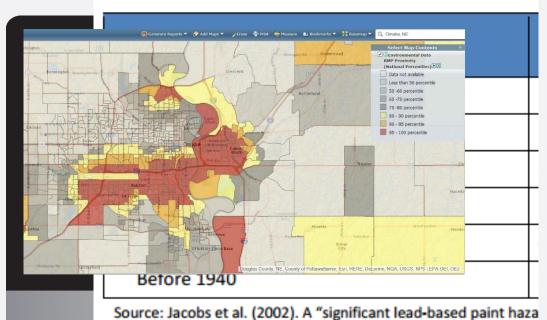
**Definition**: People in a block group over the age of 64.



## | Environmental Indicators

Table 3. Likelihood of Lead-Based Paint Hazards b

minimis levels as defined in U.S. EPA and U.S. Department of Ho



**Indicator**: Proximity to Risk Management Plan Facilities (RMP)

**Date**: 2015

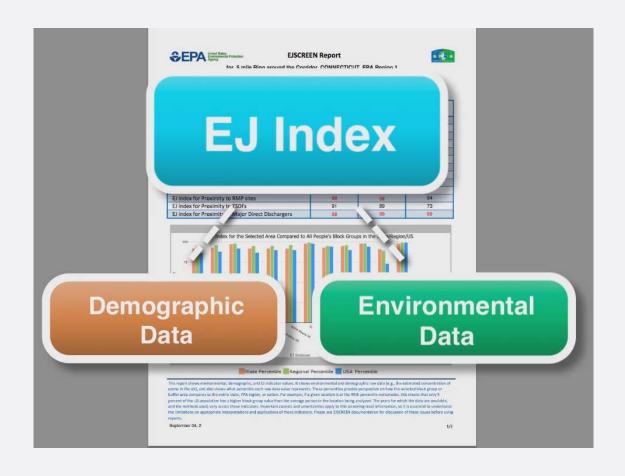
**Description**: The environmental indicator for "RMP facilities" is for facilities required to file risk management plans

**Source(s)**: Industrial facilities storing substances regulated because of acute toxicity or because of their flammable or explosive potential

Public Health Issue: Populations living in close proximity to RMP facilities may be more vulnerable to accidental releases of toxic substances and incidents involving fires and explosions can result from the production, use, or transport of industrial materials. Evacuations, injuries and deaths have resulted in some cases



#### **EJ Indexes**

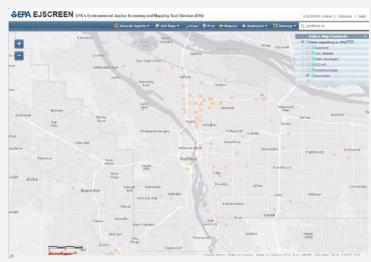


EJ indexes combine environmental and demographic data to highlight areas where vulnerable/susceptible populations may be disproportionately impacted by pollution.



<u>Click here</u> to watch a 5 minute video on how the EJ Indexes are constructed.

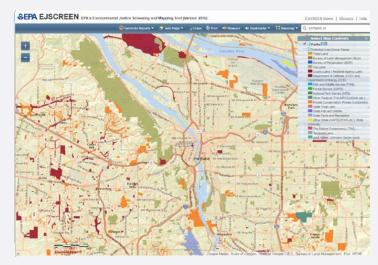
## | EJSCREEN Maps and Map Layers



EPA designated brownfield sites



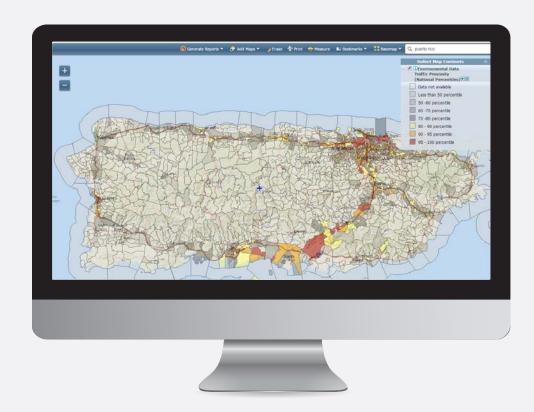
Map of buildings used as an institution for study, teaching, and learning



Map of Parks



## Additional New Features in EJSCREEN



Traffic proximity in Puerto Rico mapped

- Added Puerto Rico environmental and demographic data (but not compared to the U.S.)
- Improved glossary (hover-able definitions)
- Multiple changes to improve the interface and usability
- Button to print screen or save as an image file
- Added ability to save work in progress
- Allows user to view/compare two locations or reports on locations side-by-side
- Statistics reported for tracts and counties
- Custom cut-offs for demographics
- Scalable maps, from block groups to counties
- Maps now compare to the state as well as rest of country
- Reports for counties or multiple block groups



## | EJSCREEN in Action at EPA

EJ analyses

Prioritization

Community outreach

Evaluating areas for place-based work



Click to see the locations of the 50 MVD communities



## Lase Use Challenge



The U.S. EPA invites you to participate in the upcoming

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What?

+Chanhassen

With the release of EJSCREEN 2016, the Office of Environmental Justice (OEJ) at the Environmental Protection Agency (EPA) is excited to announce the launch of the EJSCREEN Impact Survey! The goals of this survey are twofold: 1.) To capture and highlight how the public is using EJSCREEN to support their analysis of potential environmental justice concerns; and 2.) To identify opportunities for improvement to EJSCREEN. Your support and continued feedback on EPA's environmental justice screening tool is invaluable, and so we want to hear from you on how EJSCREEN is impacting your work.

When?

Submission Dates: 10 am EST, July.1.2016 - 12 am EST, August.15.2016

How do I register?

Stay tuned by following the Environmental Justice ListServ and we will post more details soon!



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## Future of EJSCREEN

- Continued public engagement and evaluation
  - EJSCREEN Impact Survey
- Continue incorporating into EPA programs, activities, resources
  - i.e. EJ 2020, CPP, MVD
- Support partners looking to use EJSCREEN to consider environmental justice
- Improved training and access to learning materials



## List of EPA EJSCREEN Contacts

EPA Region/Office	Name	Number
Region 1	Jeffrey Norcross	617-918-1029
Region 2	Christine Ash	212-637-4006
Region 3	Matthew Lee	215-814-2917
Region 4	Ravi Rao	404-562-8349
Region 5	Mark Messersmith	312-353-2154
Region 6	Israel Anderson	214-665-7446
Region 7	Brendan Corazzin	913-551-7429
Region 8	April Nowak	303-312-6528
Region 9	Charles Swanson	415-947-4219
Region 10	Running Grass	206-553-2899
OLEM		
OCSPP	Martha Shimkin	703-305-5160
OAR	Jim DeMocker	202-564-1673
OECA	Loan Nguyen	202-564-4041
ORD	Betsy Smith	919-541-0620
OW		

