#### KIDS IN DANGER ZONES

One in Three U.S. Schoolchildren at Risk from Chemical Catastrophes

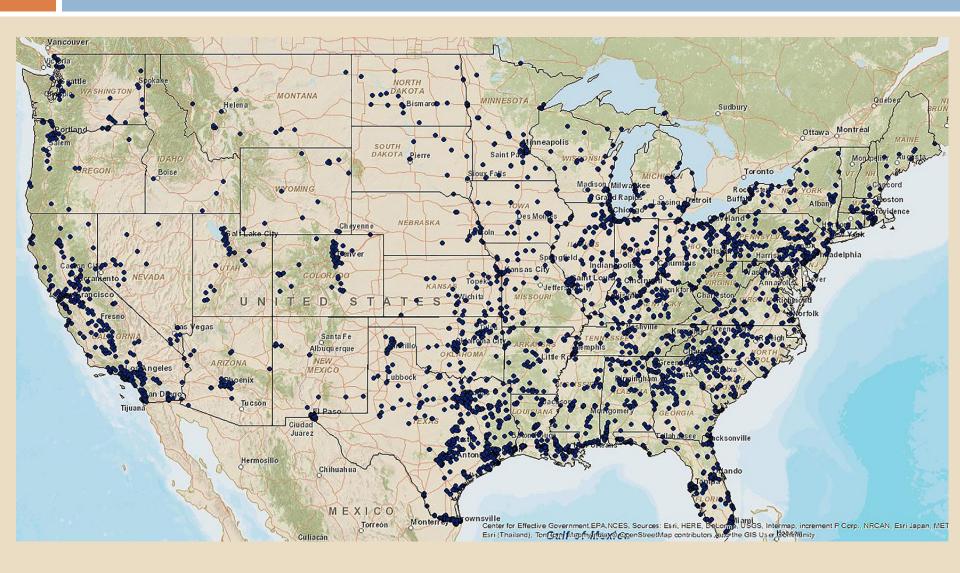
September 2014

#### Kids in Danger Zones

- Kids in Danger Zones examines the number of children who attend a school located within the selfreported vulnerability zone of over 3,400 high-risk (RMP) chemical facilities.
  - $\square$  (1/4 of RMP facilities in the US)

The locations of 122,968 public and private schools, educating 53.6 million students, were mapped against the vulnerability zones of these chemical facilities.

#### Nationwide Map of High-Risk Facilities



### Study Results

At least 1 in 3 schoolchildren in America today (36% of pre-k through high school students) attends a school within the vulnerability zone of a hazardous chemical facility.

Half of these children (over 10.3 million) are in schools located in more than one chemical vulnerability zone.

#### Study Results, cont.

- 32 facilities located in New Jersey, Texas,
   California, Illinois, Florida, Arizona, and Minnesota reported individual danger zones that put between 250,000 and 500,000 children at risk.
- California, Texas, Florida, Illinois, and New York have the largest number of students at risk because they have the largest number of students overall and chemical facilities located in or near major metropolitan areas.

# Top 5 States – Number of Schools and Students in Vulnerability Zones

| State      | Number of Schools in<br>Vulnerability Zones | Number of Students in<br>Vulnerability Zones | Percentage<br>of Students in<br>Vulnerability Zones |
|------------|---|--|---|
| California | 5,727                                       | 3,317,846                                    | 49%   |
| Texas      | 5,658                                       | 3,206,006                                    | 61%   |
| Florida    | 2,908                                       | 1,495,051                                    | 51%   |
| Illinois   | 2,466                                       | 1,084,352                                    | 47%   |
| New York   | 2,210                                       | 1,027,864                                    | 33%   |

#### Florida Facts

- In Florida, 1,495,051 students attend school within the vulnerability zone of a high-risk chemical facility.
- That means that 1 in 2 students from preschool to high school face chemical leaks, gas clouds, or explosions.

## Top 5 Counties – Students Most at Risk

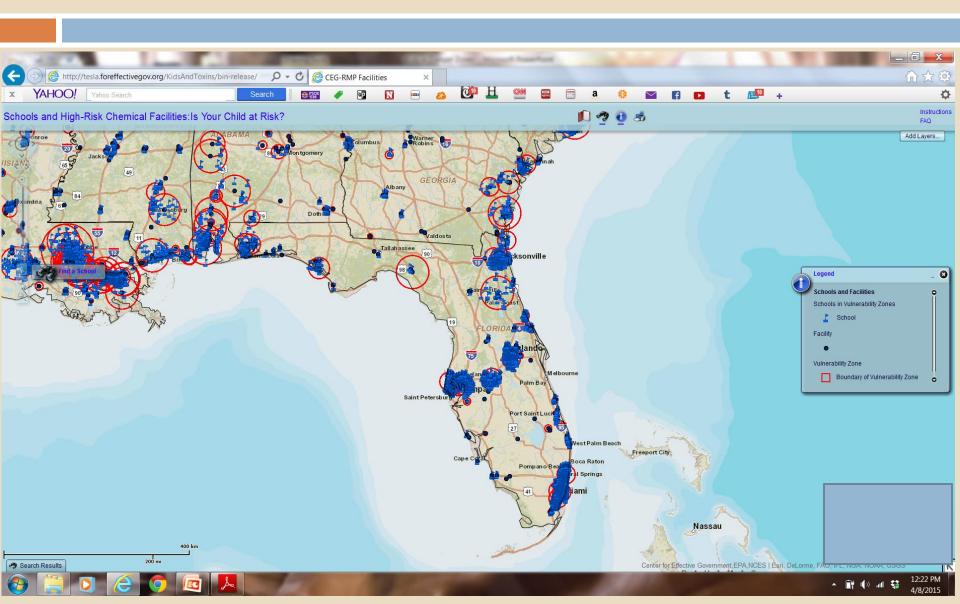
| County     | Number of Students in<br>Vulnerability Zones | Number of Schools in<br>Vulnerability Zones |  |
|------------|--|---|--|
| Putnam     | 11,362 (97%)                                 | 28  |  |
| Taylor     | 2,924 (95%)                                  | 8   |  |
| Miami-Dade | 362,890 (95%)                                | 730   |  |
| Duval      | 131,230 (94%)                                | 286   |  |
| Broward    | 269,348 (92%)                                | 446   |  |

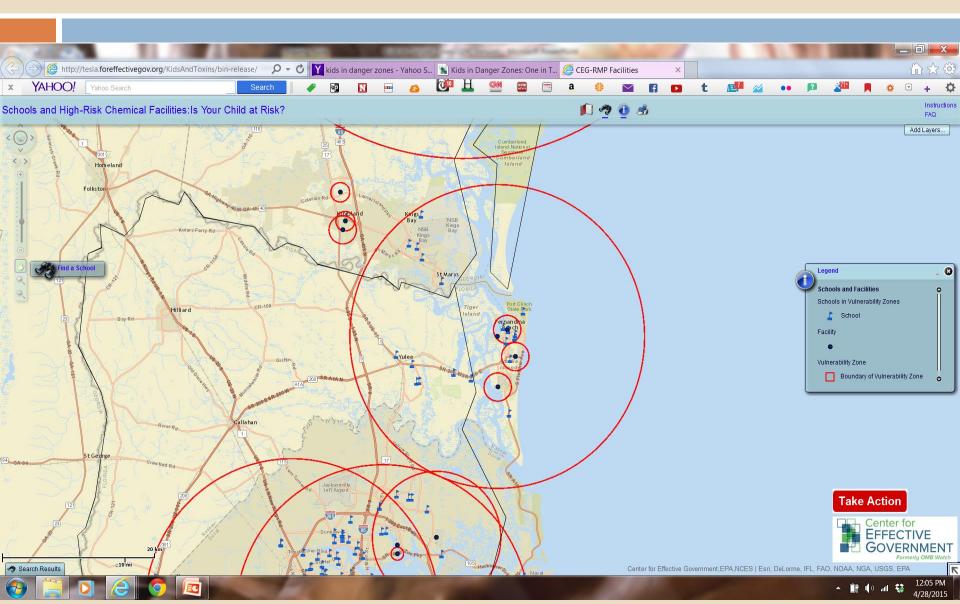
### Top 5 Schools at Risk of a Chemical Disaster

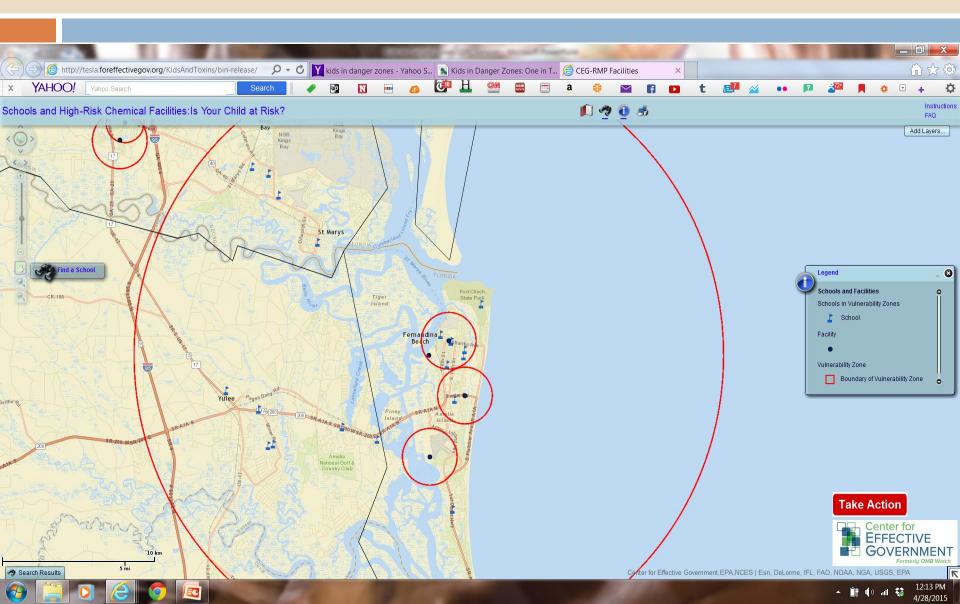
| School Name                                  | City  | Number of<br>Vulnerability Zones | Number of Students |
|--|-------|----------------------------------|--------------------|
| Bing Elementary School                       | Tampa | 6                                | 609                |
| Palm River Elementary School                 | Tampa | 6                                | 496                |
| Shore Elementary Magnet School               | Tampa | 6                                | 376                |
| Franklin Boys Preparatory<br>Academy         | Tampa | 6                                | 286                |
| Literacy Leadership Technology (LLT) Academy | Tampa | 6                                | 284                |

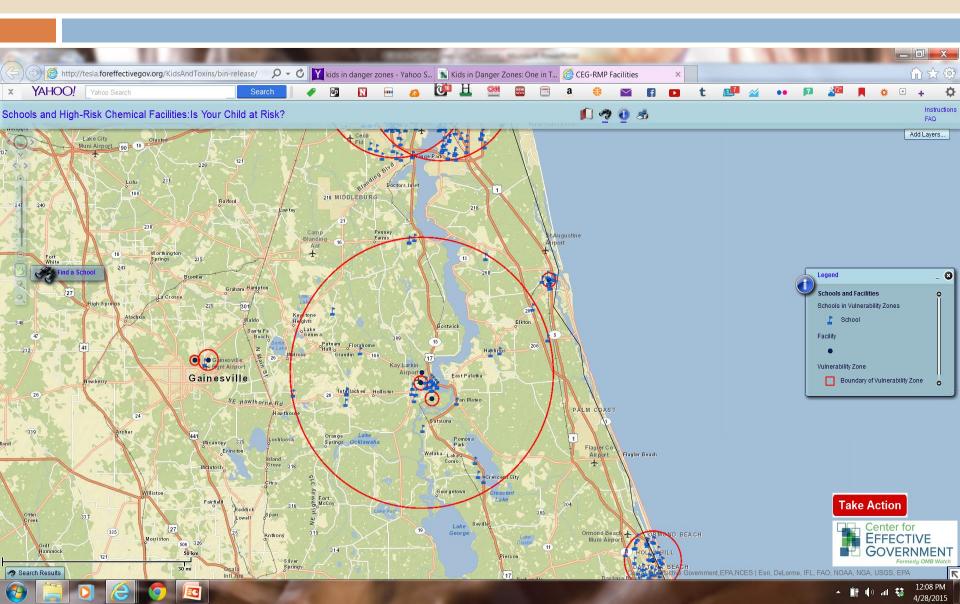
#### Top 5 Facilities Putting Most Students at Risk

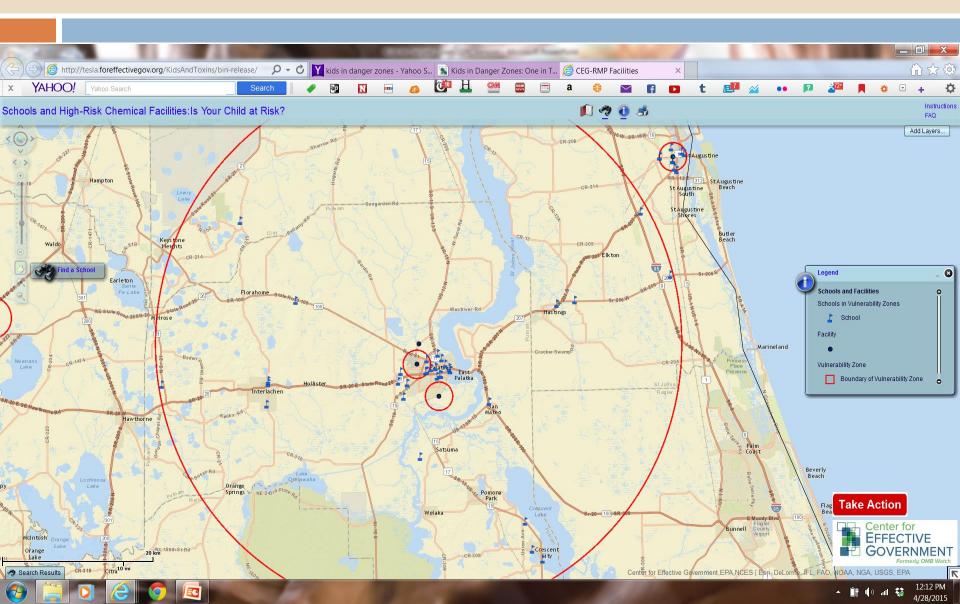
| Facility Name                         | City            | Number of Students<br>in Facility's<br>Vulnerability Zone | Number of Schools<br>in Facility's<br>Vulnerability Zone |
|---------------------------------------|-----------------|---|--|
| Allied Universal Corporation          | Miami           | 332,125   | 631  |
| Sentry Industries, Inc.               | Miami           | 324,734   | 646  |
| Alexander Orr Water Treatment Plant   | Miami           | 260,132   | 512  |
| Fiveash Water Treatment Plant         | Fort Lauderdale | 223,552   | 390  |
| John E. Preston Water Treatment Plant | Hialeah         | 222,708   | 459  |

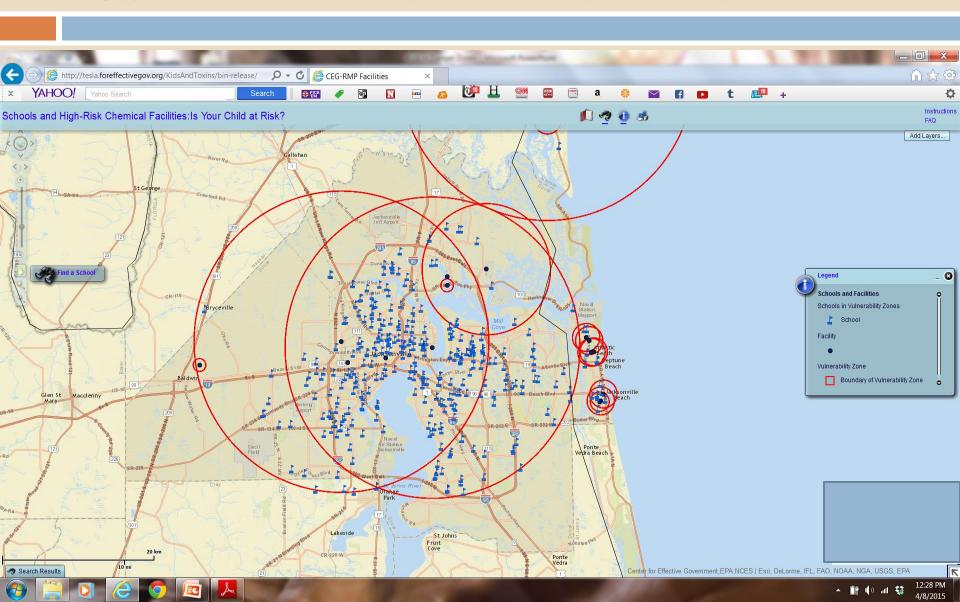


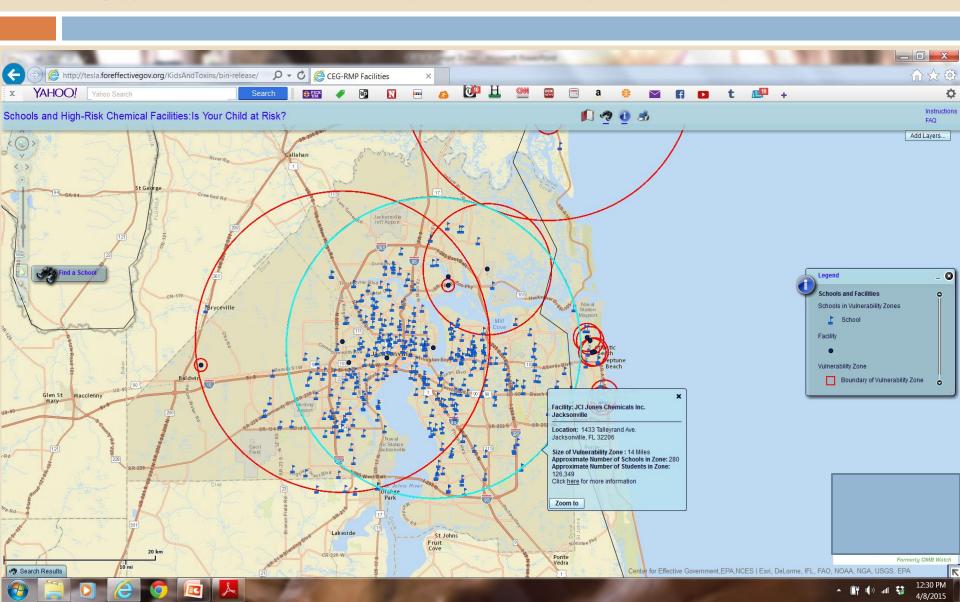












http://tesla.foreffectivegov.org/KidsAndToxins/bin-release/

JCI Jones Chemical – 1433 Talleyrand Avenue

- Size of Vulnerability Zone: 14 miles
- Approximate # of Schools in VZ: 280
- Approximate # of Students in VZ: 126,349
- Hyperlink to facility information
  - Executive Summary about the facility highlighting accident history, risk analysis, etc.

### We Can Change This

There are practical, immediate steps we can take to reduce the chemical hazards in communities across the country and to reduce the risks our children face.

 This report discusses these steps and actions individual people can take to ensure they happen.

## What can we do without shutting down production or losing jobs?

- Encourage companies to use safer chemical alternatives when they are available. Many are already doing so. (Ex: Chlorine)
- Shrink their vulnerability zones by reducing the amount of toxins produced or stored onsite.
- New facilities with dangerous chemicals should not be sited near major population centers or probable growth areas around metropolitan areas.

## What can you do to reduce the vulnerability of schoolchildren?

- Educate people in your school district, community, and state about the risks of chemical disasters (interactive map, PTAs, school curriculum)
- Advocate for policy changes on the local, state, and federal levels.
- Prepare school staff and children should a chemical event occur.
- LEPC Public Outreach to school districts

## QUESTIONS?

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