

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 self-reported vulnerability zone of over 3,400 high-risk (RMP) chemical facilities.
 - (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.

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 Vulnerability Zones	Number of Students in Vulnerability Zones	Percentage of Students in 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 Vulnerability Zones	Number of Schools in 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 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 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 in Facility's Vulnerability Zone	Number of Schools in Facility's 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

Interactive Mapping Tool

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

The screenshot shows a web browser window with the following elements:

- Address Bar:** <http://tesla.foreffectivegov.org/KidsAndToxins/bin-release/>
- Page Title:** Schools and High-Risk Chemical Facilities: Is Your Child at Risk?
- Map:** A map of Florida and parts of Alabama and Georgia. Blue squares represent schools, and black dots represent facilities. Red circles of varying sizes represent vulnerability zones around these locations. Major cities like Jacksonville, Tallahassee, Jacksonville, Orlando, and Miami are labeled.
- Legend:** A legend box on the right side of the map with the following items:
 - Schools and Facilities:** A blue square icon for 'School' and a black dot icon for 'Facility'.
 - Vulnerability Zone:** A red square icon for 'Boundary of Vulnerability Zone'.
- Scale:** A scale bar at the bottom left showing 0, 200, and 400 kilometers.
- Browser Interface:** Includes a search bar with 'YAHOO!' and 'Yahoo Search', various social media icons, and a taskbar at the bottom with application icons like Internet Explorer, Chrome, and a PDF reader.

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YAHOO! Yahoo Search Search

Schools and High-Risk Chemical Facilities: Is Your Child at Risk? Instructions FAQ Add Layers...

Find a School

Legend

- Schools and Facilities
- Schools in Vulnerability Zones
- School
- Facility
- Vulnerability Zone
- Boundary of Vulnerability Zone

Take Action

Center for EFFECTIVE GOVERNMENT Formerly OMB Watch

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Interactive Mapping Tool

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Schools and High-Risk Chemical Facilities: Is Your Child at Risk?

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CEG-RMP Facilities

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CEG-RMP Facilities

YAHOO! Yahoo Search

Schools and High-Risk Chemical Facilities: Is Your Child at Risk?

Find a School

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Facility: JCI Jones Chemicals Inc.
Jacksonville

Location: 1433 Talleyrand Ave.
Jacksonville, FL 32206

Size of Vulnerability Zone : 14 Miles
Approximate Number of Schools in Zone: 280
Approximate Number of Students in Zone:
126,349
[Click here for more information](#)

Zoom to

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Interactive Mapping Tool

<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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