



CalEnviroScreen

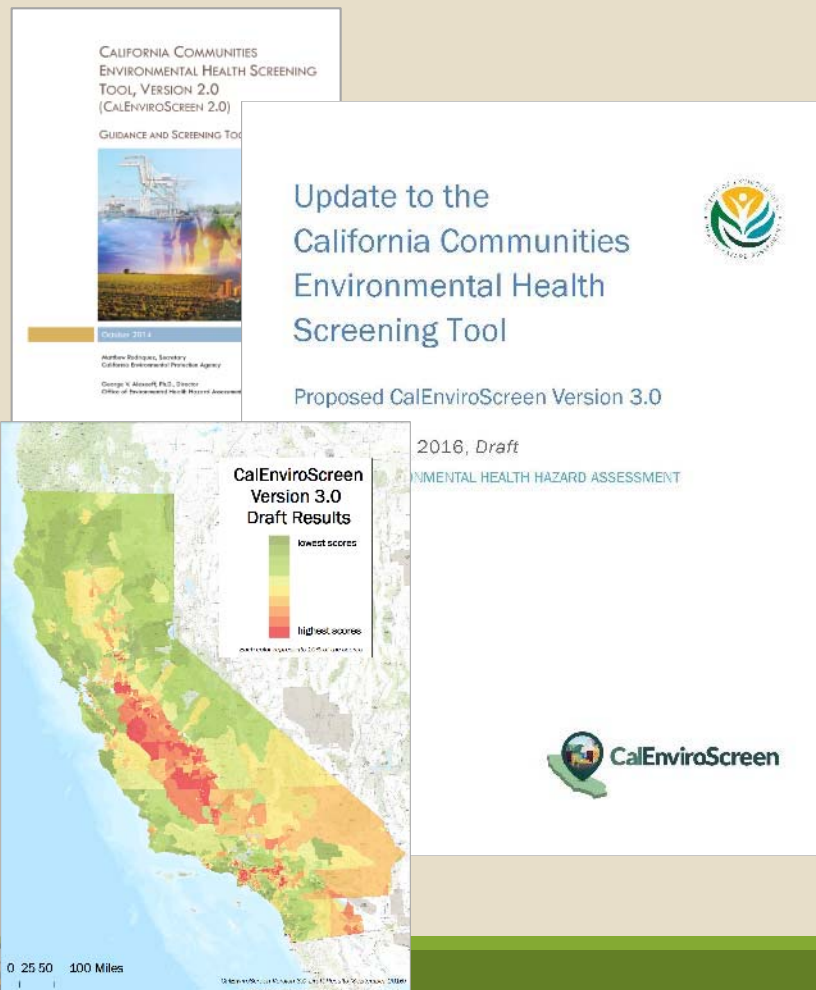
Integrating California and Mexico TRI Data into CalEnviroScreen



October 20, 2016

CalEnviroScreen

Proposed Version 3.0, September 2016



- Broad picture of the relative burdens in California communities from pollution
- Twenty indicators of environmental conditions and population vulnerability
- Census tract scale

Using CalEnviroScreen

- Commit resources to most highly impacted areas or regions.
- Provide context for specific locations.

Caveats:

- Not a health risk assessment.
- Not a substitute for CEQA-required cumulative impacts assessment; does not determine whether a specific project's impacts are significant.



CalEnviroScreen Model

Exposures

Contact with pollution

Environmental
Effects

*Adverse environmental conditions
caused by pollutants*

Sensitive
Populations

*Populations with biological traits (including
health status) that may magnify the effects
of pollutant exposures*

Socioeconomic
Factors

*Community characteristics that result in
increased vulnerability to pollutants*

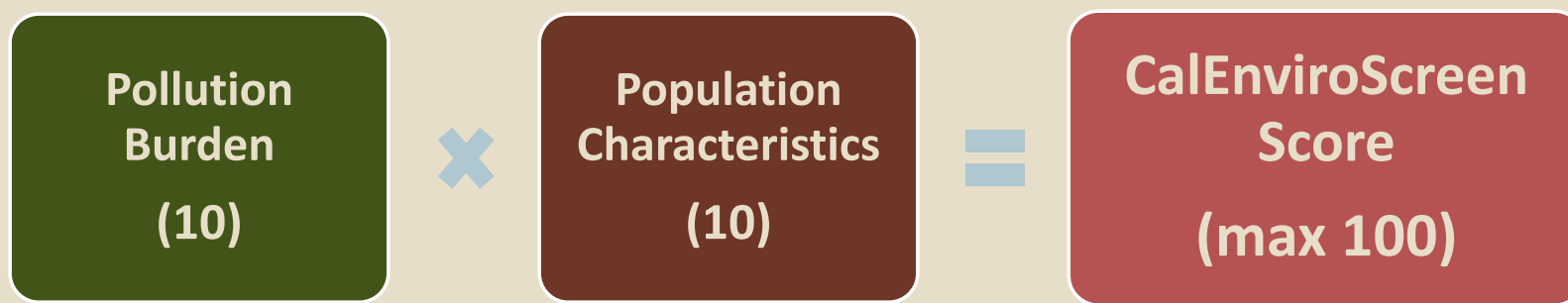


CalEnviroScreen 3.0, Proposed Indicators

<i>Pollution Burden</i>		<i>Population Characteristics</i>	
Exposures	Environmental Effects	Sensitive Populations	Socioeconomic Factors
<ul style="list-style-type: none"> <input type="checkbox"/> PM 2.5 concentrations <input type="checkbox"/> Ozone concentrations <input type="checkbox"/> Diesel PM emissions <input type="checkbox"/> Drinking water contaminants <input type="checkbox"/> Pesticide use <input type="checkbox"/> Toxic releases from facilities <input type="checkbox"/> Traffic density 	<ul style="list-style-type: none"> <input type="checkbox"/> Cleanup sites <input type="checkbox"/> Groundwater threats (Leaking underground tanks and cleanups) <input type="checkbox"/> Hazardous waste facilities and generators <input type="checkbox"/> Impaired water bodies <input type="checkbox"/> Solid waste sites and facilities 	<ul style="list-style-type: none"> <input type="checkbox"/> Asthma emergency department visit rate <input type="checkbox"/> Cardiovascular disease (heart attack rate) <input type="checkbox"/> Rate of low birth weight births 	<ul style="list-style-type: none"> <input type="checkbox"/> Educational attainment <input type="checkbox"/> Linguistic isolation <input type="checkbox"/> Poverty: Percent residents below 2x national poverty level <input type="checkbox"/> Rent-adjusted income <input type="checkbox"/> Unemployment



Calculating CalEnviroScreen Scores



- CalEnviroScreen score is calculated by combining all indicator scores; allows for comparison of different areas
- Higher scores mean greater pollution burdens and population vulnerability.

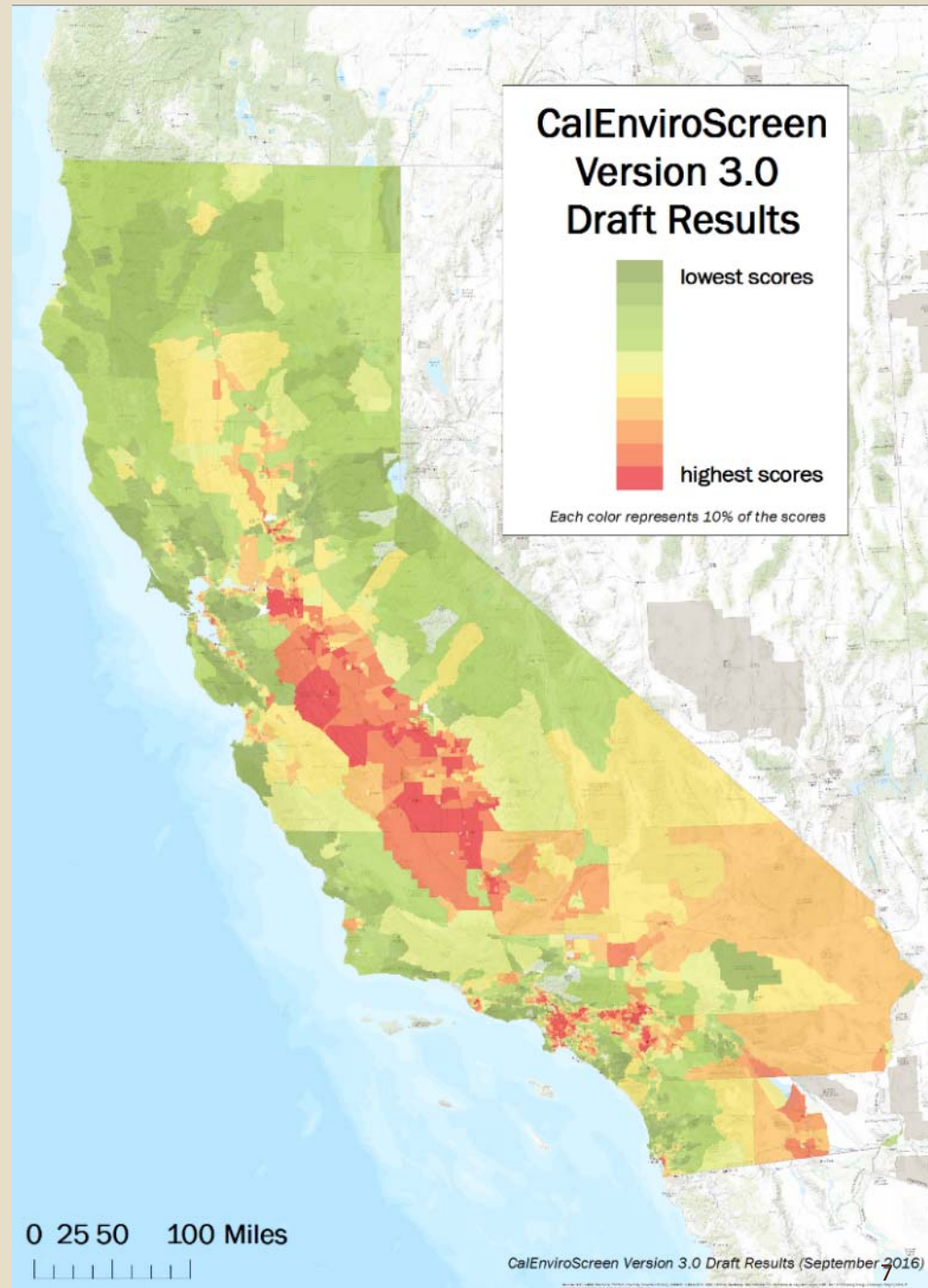




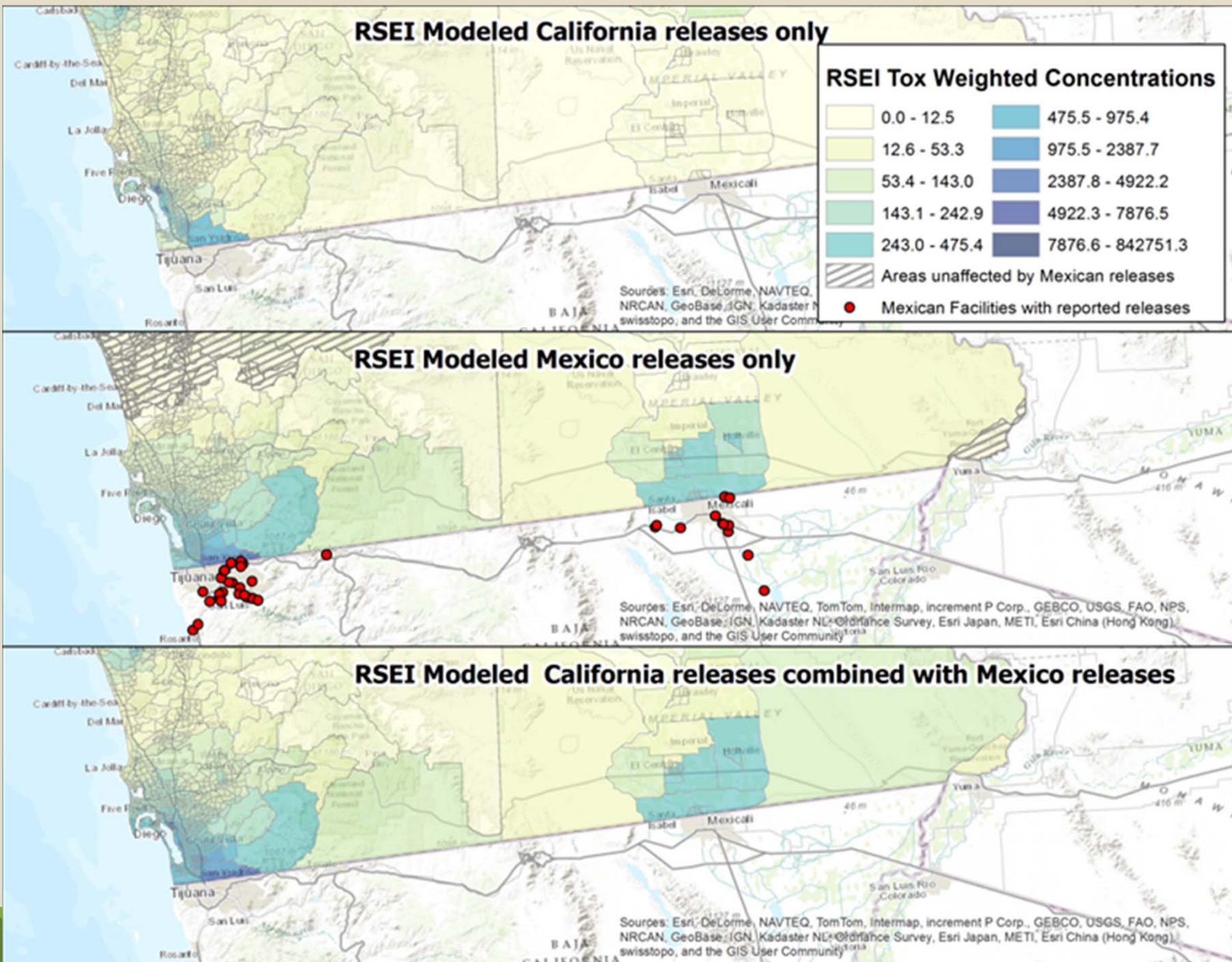
Statewide Results

Available as an interactive web map

Proposed
CalEnviroScreen
Version 3.0



Toxic Releases from Facilities



Toxic Releases from Facilities

- ❑ Hazard-weighted emissions from facilities that report data to US EPA
- ❑ Modeled by US EPA (Abt Associates)
- ❑ Additional Mexican facilities within 49 kilometers of border identified, verified, and emissions data collected

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THANK YOU!

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