Environmental Justice Mapping at EPA

Kim Balassiano

Office of Environmental Information (OEI)
Office of Information Analysis and Access
Information Access Division

Thursday May 8, 2014

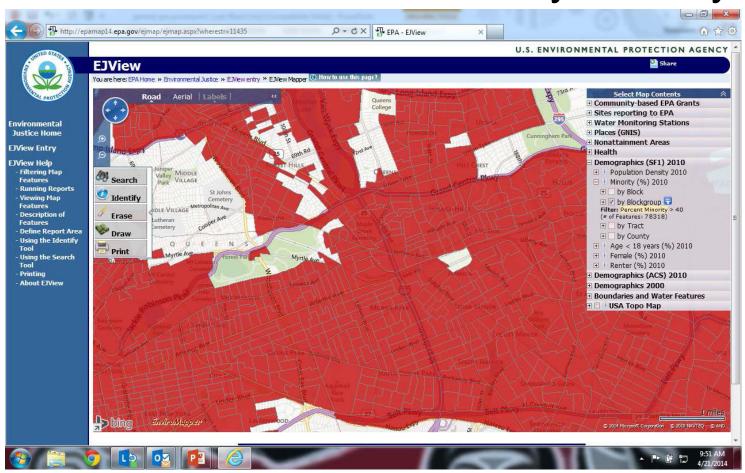


What is environmental justice?

"Environmental Justice" is the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies.

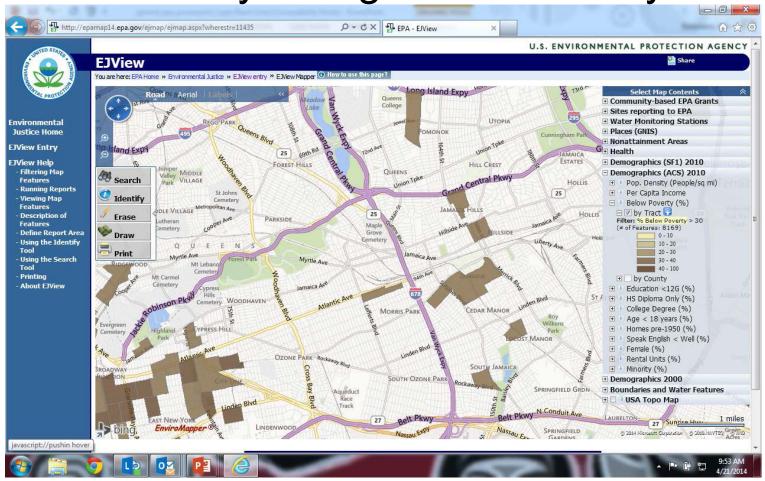


EJView Tool – Predominantly Minority



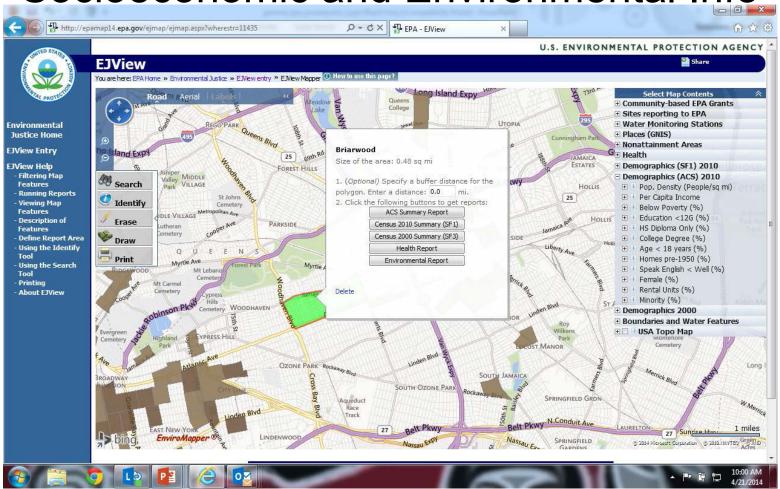


Predominantly Living Below Poverty Level





Socioeconomic and Environmental Info







EJView Environmental Report



Location: -73.851986,40.693655,-73.848553,40.688058,-73.827953,40.694306,-73.830700,40.700162,-73.836536,40.69690

Study Area: 0.0 mile around the polygonal location

Sites and Facilities	Count
Air Facility System (AFS)	7
Superfund Sites (NPL)	0
Toxic Releases (TRI)	0
Hazardous Waste (RCRAInfo)	30
Water Dischargers (PCS & ICIS)	0
Brownfields (ACRES)	0
Radiation Information Database (RADInfo)	0
Toxic Substances Control Act (TSCA)	0

Environmental Concerns	Count
National Water Information System (NWIS) sites	
STOrage and RETrieval (STORET) sites	
Impaired Streams	
Impaired Waterbodies	
National Parks	

Places	Count
Schools	5
Hospitals	1
Worship Places	7



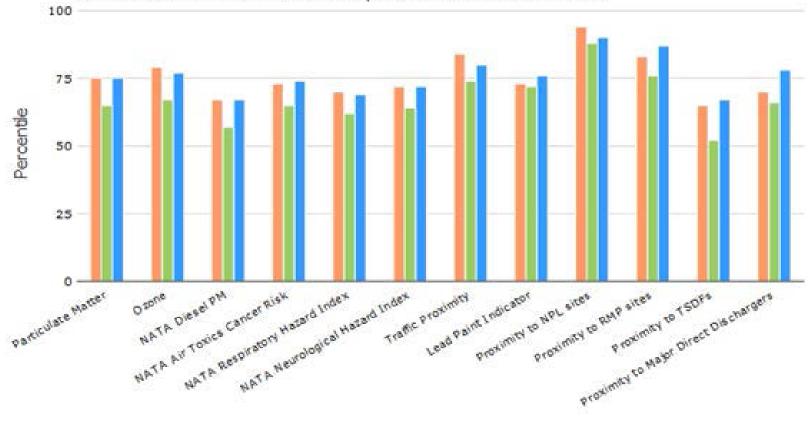
EJView to be replaced by EJSCREEN

- How does EPA use this information to allocate resources like grants and inspections?
- Can we get a nationally consistent approach to locating potential EJ areas?
- What do we do about approaching EJ consistently across consistently different areas like inner cities and rural areas?



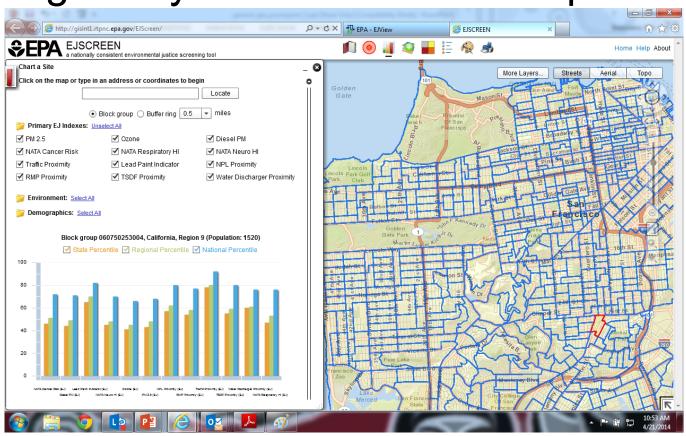
EJSCREEN looks at 12 environmental

E) Index for the Selected Area Compared to All Places in the U.S.





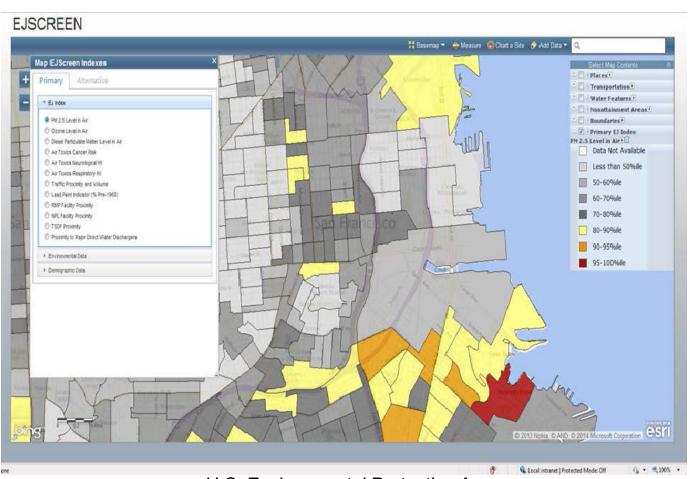
EJSCREEN provides a nationally, regionally or state-relative response



U.S. Environmental Protection Agency



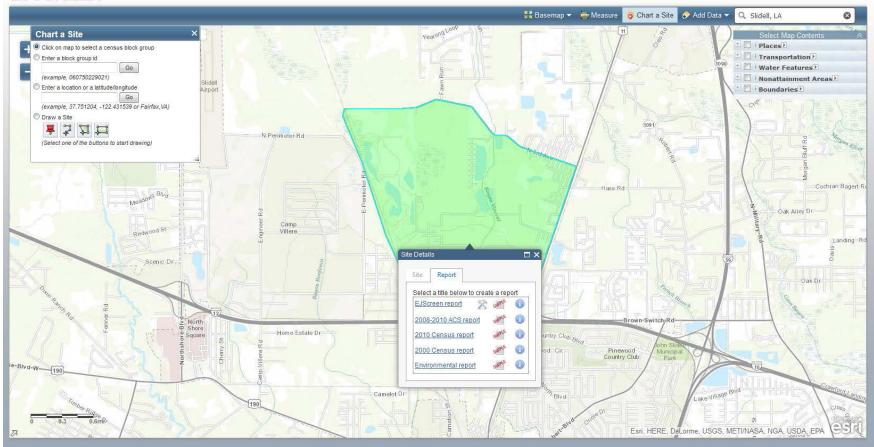
EJSCREEN is being redesigned for public use





Ability to draw an area and run reports

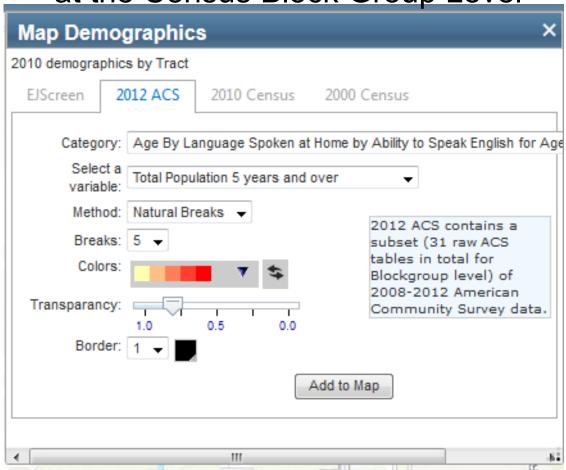
EJSCREEN



U.S. Environmental Protection Agency



Amazing amounts of demographic data at the Census Block Group Level



U.S. Environmental Protection Agency

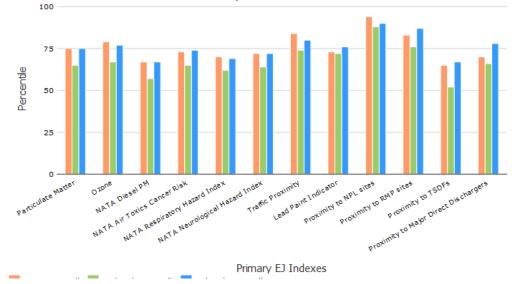






Selected Variables	State Percentile	Region Percentile	National Percentile
Primary EJ Indexes			
Particulate Matter	75	65	75
Ozone	79	67	77
NATA Diesel PM	67	57	67
NATA Air Toxics Cancer Risk	73	65	74
NATA Respiratory Hazard Index	70	62	69
NATA Neurological Hazard Index	72	64	72
Traffic Proximity	84	74	80
Lead Paint Indicator	73	72	76
Proximity to NPL sites	94	88	90
Proximity to RMP sites	83	76	87
Proximity to TSDFs	65	52	67
Proximity to Major Direct Dischargers	70	66	78

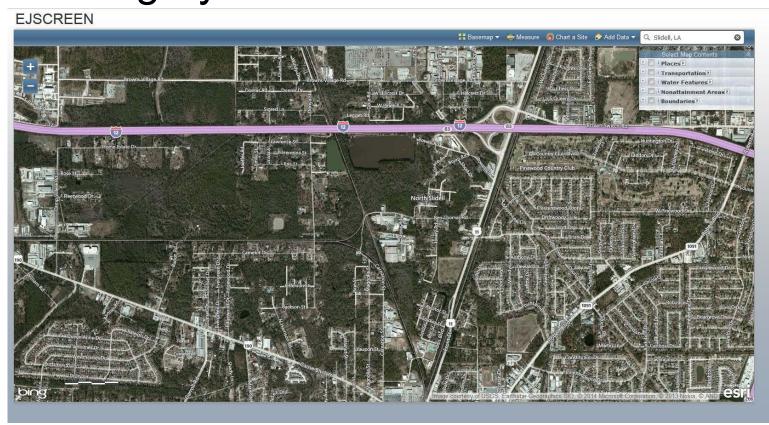
EJ Index for the Selected Area Compared to All Places in the U.S.



U.S. Environmental Protection Agency



Ability to see various backdrops such as imagery from various time-slices



U.S. Environmental Protection Agency

