CHANGING CLIMATE

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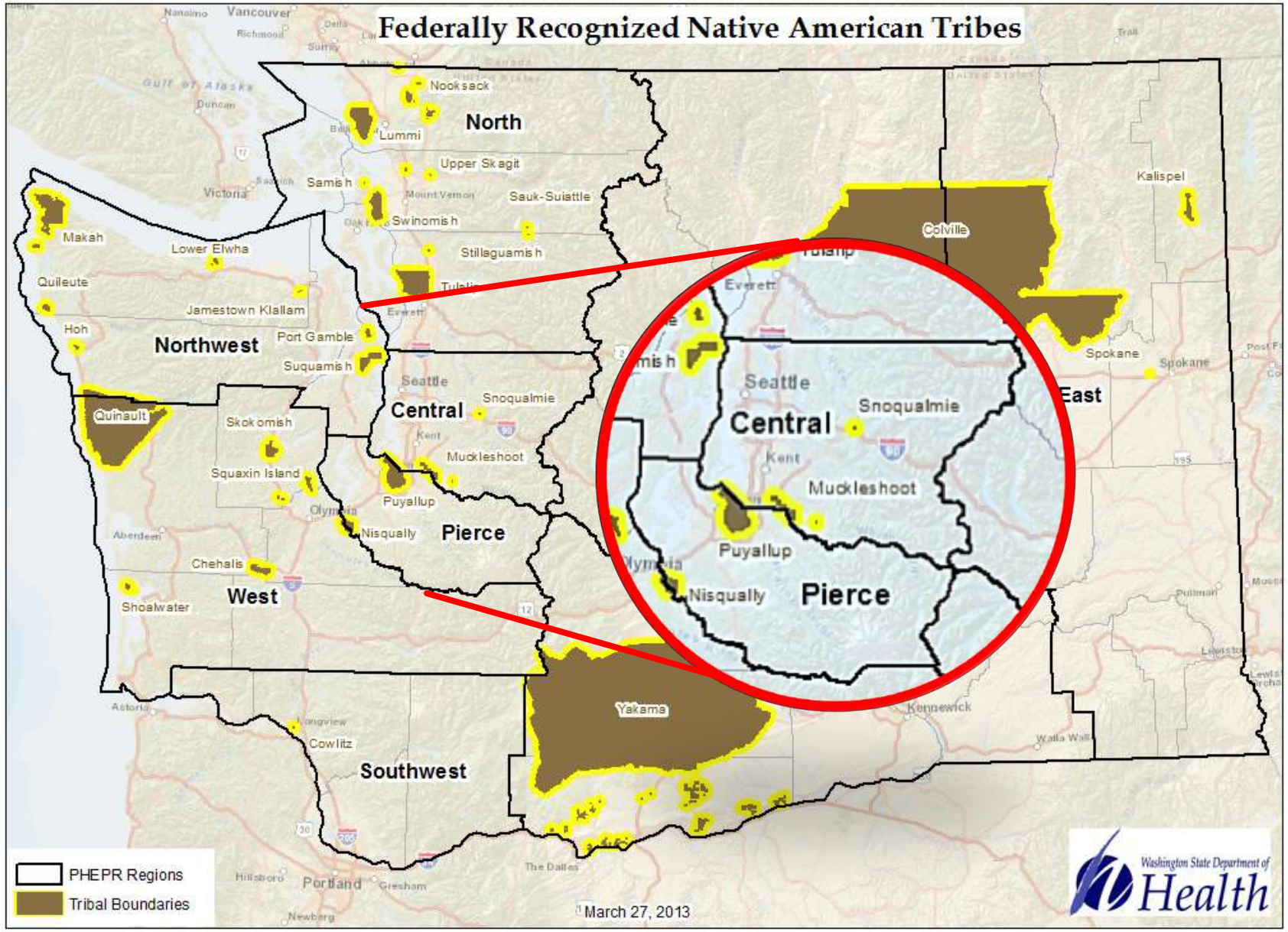
King County Department of Natural Resources and Parks

THE DORIS DUKE
Conservation Scholars Program
AT THE UNIVERSITY OF WASHINGTON

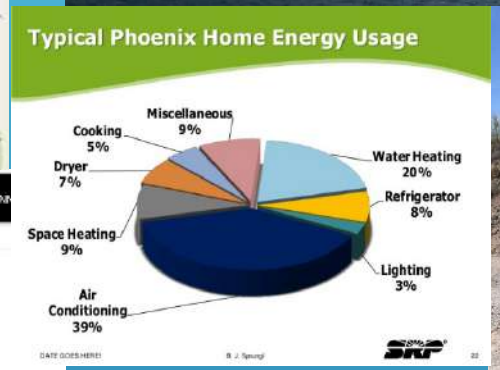
King County

OVERVIEW

- **Acknowledgement**
- **Introductions**
- **How is the climate changing?**
- **What are its impact on our environment and human health?**
  - Local connections
- **Continuing the conversations**


Federally Recognized Native American Tribes
North
Northwest
Central
West
Southwest
East
Pierce
Nooksack
Lummi
Upper Skagit
Samish
Sauk-Suiattle
Swinomish
Stillaguamish
Tulalip
Colville
Kalispel
Spokane
Makah
Lower Elwha
Quileute
Jamestown Klallam
Hoh
Port Gamble
Suquamish
Quinault
Skokomish
Squaxin Island
Seattle
Snoqualmie
Kent
Muckleshoot
Puyallup
Nisqually
Chehalis
Shoalwater
Cowlitz
Yakama
Vancouver
Victoria
Everett
Portland
PHEPR Regions
Tribal Boundaries
March 27, 2013
Washington State Department of Health

Phoenix-Tempe



SALON

THURSDAY, MAR 14, 2013 12:30 PM PDT

Phoenix may not survive climate change

The Arizona city is almost entirely air-conditioned, and if our power grids fail, its people will fry

WILL DEBUYS, TOMDISPATCH.COM

Pocket SKIP TO COMMENTS

TOPICS: ARIZONA, CLIMATE CHANGE, NEW ORLEANS, PHOENIX, POWER GRID, TOMDISPATCH.COM, POLITICS NEWS

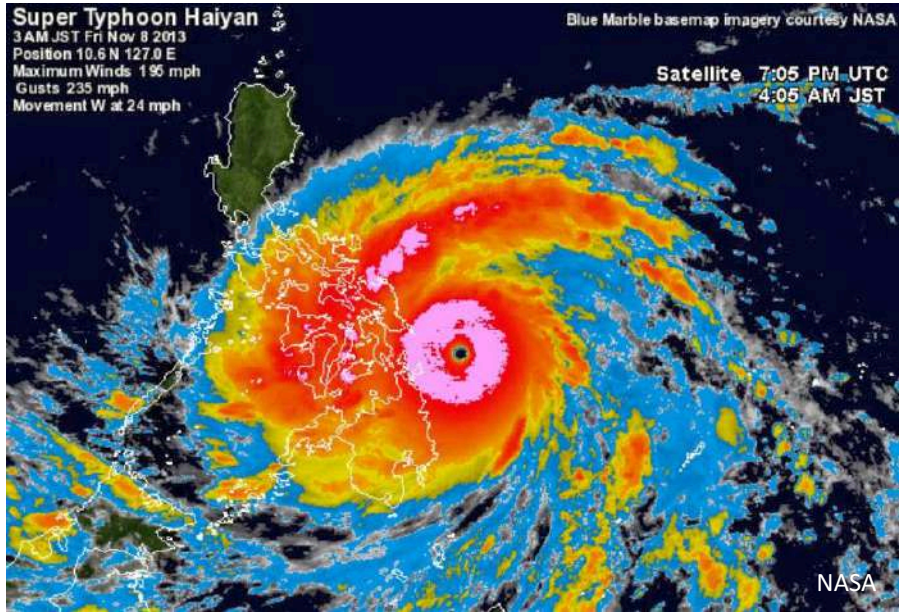
(Credit: Brian Weed via Shutterstock)

This piece originally appeared on TomDispatch.

If cities were stocks, you'd want to short Phoenix.

Of course, it's an easy city to pick on. The nation's 13th largest metropolitan area

Kodiak Island , Alaska
Ilocos Norte, Philippines
ARCTIC OCEAN
ARCTIC OCEAN
Greenland Sea
Barents Sea
Kara Sea
Laptev Sea
East Siberian Sea
Beaufort Sea
Norwegian Sea
RUSSIA
GREENLAND
EUROPE
KAZAKHSTAN
ASIA
CHINA
PACIFIC OCEAN
PACIFIC OCEAN
UNITED STATES
ATLANTIC OCEAN
ALGERIA
LIBYA
EGYPT
IRAN
AFRICA
ETHIOPIA
INDONESIA
AUSTRALIA
SOUTH AMERICA
BRAZIL
COLOMBIA
CHILE
ARGENTINA
INDIAN OCEAN
ATLANTIC OCEAN
PACIFIC OCEAN
N
W
E
S
The World
CLASSIC ELITE SERIES
SOUTHERN OCEAN
SOUTHERN OCEAN
ANTARCTICA



NASA

T. R. Foundation

The New York Times

Anchor Properties

Explaining the Greenhouse Effect

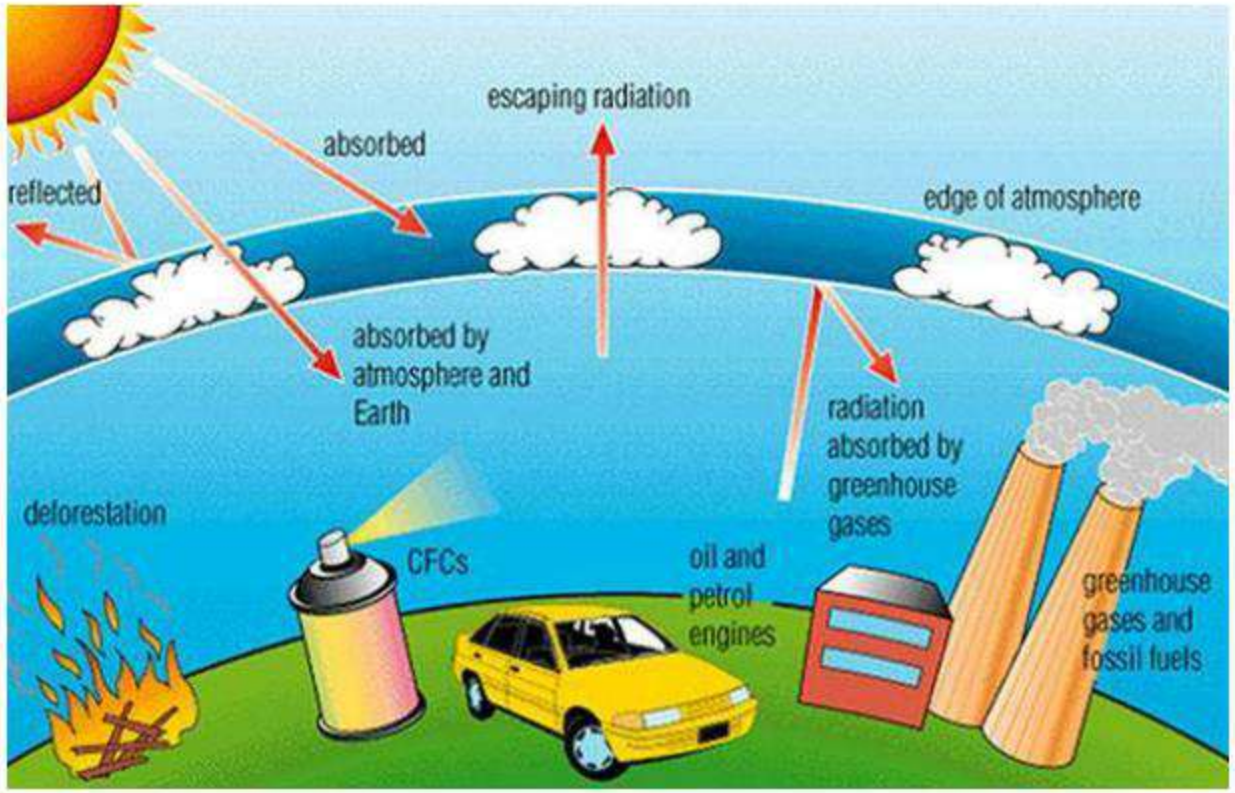
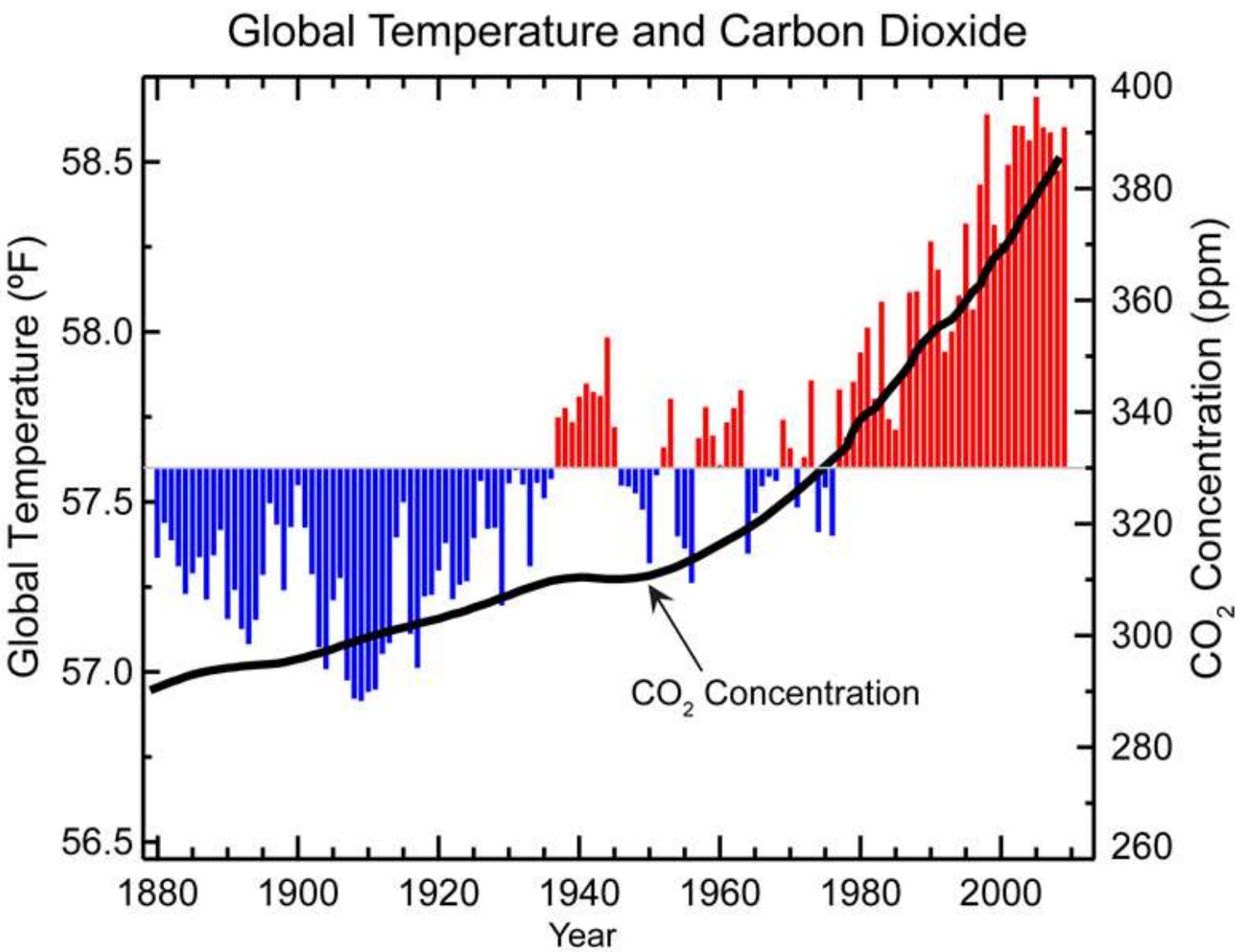
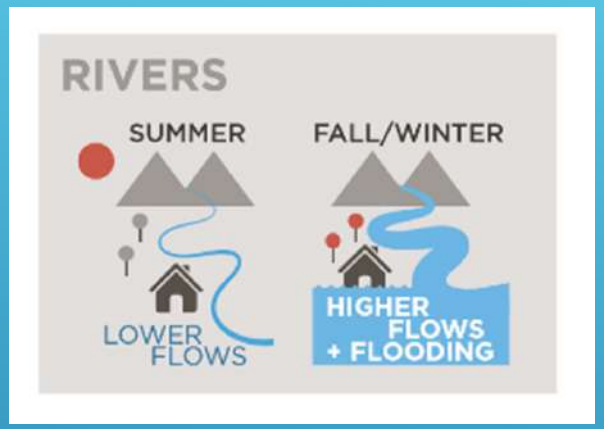


Figure: www.myclimatechange.net


Global Temperature and Carbon Dioxide
Global Temperature (ºF)
58.5
58.0
57.5
57.0
56.5
400
380
360
340
320
300
280
260
CO2 Concentration (ppm)
CO2 Concentration
1880
1900
1920
1940
1960
1980
2000
Year

King County Greenhouse Gas Emissions, 2012

PUGET SOUND REGIONAL WEATHER



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Global Fish Prices Leap to All-Time High

Emiko Terazono

FINANCIAL TIMES

Getty Images

Global fish prices have leapt to all-time highs as China's growing appetite for high-end species – from tuna to oysters – runs up against lower catches.

The UN Food and Agriculture Orga
industry benchmark that tracks the
a record high in May, up 15 per con
peak set in mid 2011.

By MICHAEL CASEY | CBS NEWS | February 23, 2015, 2:00 PM

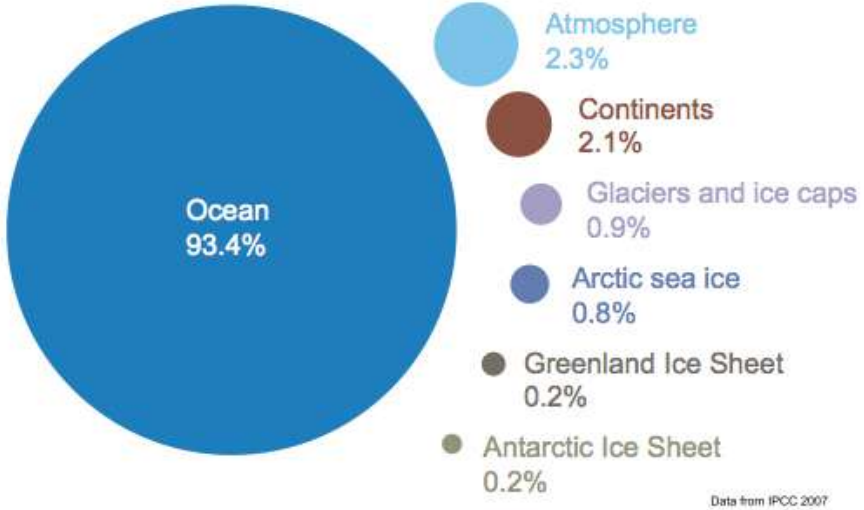
Could climate change take oysters off the menu?

Kegotank Farm owner Alyson Myers harvests oysters on the Eastern Shore of Virginia | JUDY G. ROLFE

4 Comments | Share | Tweet | Stumble | Email

If there was a frontline in the fight over climate change, a good place to start might be oyster farms in places like the Pacific Northwest or the East Coast.

A new study published Monday in Nature Climate Change warned fisheries producing oysters and clams across the United States will be "vulnerable" in the coming decades to ocean acidification, a process where increasing amounts of carbon dioxide make the water more acidic. In turn, that makes it more difficult for mollusks, crabs and corals to grow their shells.

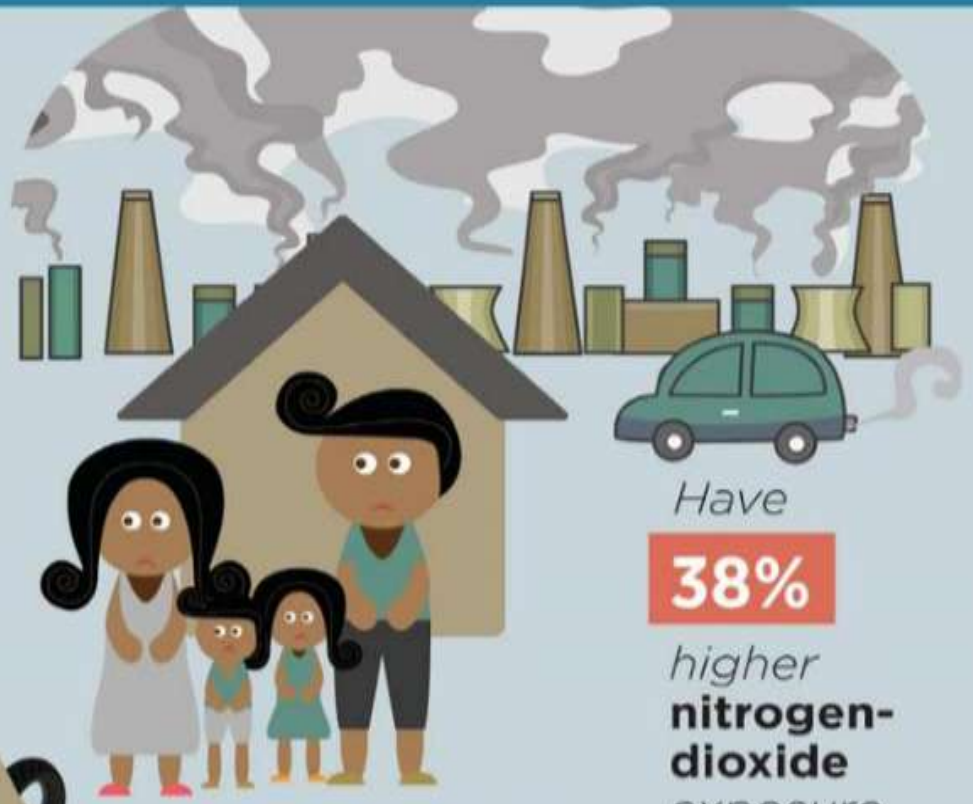


Environmental Racism Is Nothing New

Race is the most significant predictor of a person living near contaminated air, water, or soil.

56%

of the population near **toxic waste** *sites are people of color.*



People of color:

Have **38%** *higher* **nitrogen-dioxide** *exposure.*

Are **2x** *more likely to live without* **potable water** *and* **modern sanitation**.

Have seen **95%** *of their claims against polluters* **denied by the EPA**.

The Nation.

Physical and Mental Health Impacts

- Food Access
- Anxiety
- Extreme heat and extreme weather events
- Outdoor air quality
- Flooding
- Diseases and infections

KING COUNTY

Continuing the conversations

- Community efforts

  -What initiatives, organizations, community leaders, are already working on making Kent a healthier and stronger community?

  -What else is needed to make Kent a healthier and stronger community?

Thank you!