



Environmental Justice Research Roadmap

EPA's Goal :

All communities and persons across the Nation enjoy the same degree of protection from environmental and health hazards and equal access to the decision-making process to have a healthy environment in which to live, learn, work, and play.

Environmental Justice Goal:

That this protection is extended to overburdened communities – minority, low income, tribal populations or communities in the US that potentially experience disproportionate environmental hazards and risks.





Environmental Justice Research Roadmap

The goal of ORD research addressing environmental justice is to strengthen the scientific foundation for actions that address environmental and health inequalities in overburdened populations and communities.

Four science challenges

1. Decision support, citizen science, and community engagement
2. Environmental health disparities and cumulative assessment
3. Tribal sustainability and well being
4. Climate justice



The Roadmap describes science designed to help the Agency and state and local stakeholders meet public health and environmental quality goals in overburdened communities.



Environmental Justice Research Roadmap Updates in Response to BOSC Comments

1. Consistency of problem statements in introductory sections and body of report
2. Addition of many references to bolster motivation for the research, the organization of the science challenges, and the identification of research gaps.
3. Linking of Science Challenges to different aspects to Environmental Justice
4. Expanded discussion of Science Gaps
 - a. **Environmental health disparities, cumulative assessment, and the built, natural, and social environments.**
 - b. **Equitable distribution of ecosystem services.**
 - c. **Standardized methods and metrics for EJ analyses.**
 - d. **Social science capacity.**



Environmental Justice Research Roadmap Annual Report Highlights

1. Agency collaborations using scientific and technical expertise while addressing place-based EJ issues
Approximately 45 projects from the Making A Visible Difference, RARE, and RESES programs

2. 48 grants from ORD's STAR program from the SHC, ACE, and SSWR programs

Newest awards:

5 EPA/NIEHS Children's Environmental Health and Disease Prevention Centers focused on environmental exposures and social determinant of health

5 EPA-NIH Centers of Excellence on Environmental Health Disparities Research

6 grants on Air Pollution Monitoring for Communities

Soon to come: Integrating Human Health and Well-Being with Ecosystem Services

Using a Total Environment Framework to Assess Lifelong Health Effects of Chemical Exposures

3. Responsive Research

Modeling lead contamination in drinking water to inform updates to the Lead and Copper Rule

Zika: Collaboration with Regions 2 and 6 on mosquito breeding habitat and disease vector mitigation