Team members: Ayiana Baynes, Justin Richerson, Marques Rutlin

Research Question: What age range is most negatively affected by microplastics in water?

- Population: People in Edwardsville
- Intervention: Bringing awareness and research
- Comparison: Negative health effects
- Outcome: Better water for Edwardsville/something being done about it
- Time: Depends

- Title: Microplastics in water systems: A review of their impacts on the environment and their potential hazards
- Article Type: Review
- URL: https://www.cell.com/heliyon/fulltext/s2405-8440(23)01566-9
- Citation: Kye, Homin, et. al. “Microplastics in Water Systems: A Review of Their Impacts on the Environment and Their Potential Hazards.” Heliyon, www.cell.com/heliyon/fulltext/s2405-8440(23)01566-9. Accessed 20 Sept. 2025.

- Title: Methods for Sampling and Detection of Microplastics in Water and Sediment: A Critical Review.
- Article Type: Review
- URL: https://www.sciencedirect.com/science/article/pii/S0165993618305247
- Citation: Prata, Joana Correia, et. al. “Methods for Sampling and Detection of Microplastics in Water and Sediment: A Critical Review.” ScienceDirect, www.sciencedirect.com/science/article/pii/S0165993618305247. Accessed 20 Sept. 2025.

- Title: Nano/microplastics in water and wastewater treatment processes – Origin, impact and potential solutions
- Article Type: Primary
- URL: https://www.sciencedirect.com/science/article/pii/S0043135419305627
- Citation: Enfrin, Marie, et. al. “Nano/Microplastics in Water and Wastewater Treatment Processes – Origin, Impact and Potential Solutions,” ScienceDirect, www.sciencedirect.com/science/article/am/pii/S1879729619301437. Accessed 20 Sept. 2025.

- Title: The potential effects of microplastics on human health: What is known and what is unknown.
- Article Type: Primary
- URL: https://pmc.ncbi.nlm.nih.gov/articles/PMC8800959/
- Citation: Blackburn, Kirsty, and Dannielle Green. The Potential Effects of Microplastics on Human Health: What Is Known and What Is Unknown,” U.S. National Library of Medicine, Mar. 2022, pmc.ncbi.nlm.nih.gov/articles/PMC8800959/. Accessed 20 Sept. 2025.

- Title: Impact of Microplastics and Nanoplastics on Human Health
- Article Type: Primary
- URL: https://www.mdpi.com/2079-4991/11/2/496
- Citation: Yee, Maxine Swee-Li, et al. “Impact of Microplastics and Nanoplastics on Human Health.” Multidisciplinary Digital Publishing Institute, 16 Feb. 2021, www.mdpi.com/2079-4991/11/2/496. Accessed 20 Sept. 2025

- Title: Potential Health Impact of Microplastics: A Review of Environmental Distribution, Human Exposure, and Toxic Effects.
- Article Type: Review
- URL: https://pubs.acs.org/doi/full/10.1021/envhealth.3c00052
- Citation: Li, Yue, et. al. “Potential Health Impact of Microplastics: A Review of Environmental Distribution, Human Exposure, and Toxic Effects | Environment & Health.” ACS Publications, pubs.acs.org/doi/full/10.1021/envhealth.3c00052. Accessed 20 Sept. 2025.

- Title: Association of microplastics in human cerebrospinal fluid with Alzheimer’s disease-related changes
- Article Type: Primary
- URL: https://www.sciencedirect.com/science/article/pii/S0304389425016644
- Citation: He, Ping, et. al. “Science, Health and Medical Journals, Full Text Articles and Books.” ScienceDirect, www.sciencedirect.com/science/article/am/pii/S1879729619301437. Accessed 20 Sept. 2025.

- Title: Aged fragmented-polypropylene microplastics induced ageing statues-dependent bioenergetic imbalance and reductive stress: In vivo and liver organoids-based in vitro study
- Article Type: Primary
- URL: https://www.sciencedirect.com/science/article/pii/S016041202400535X

- Citation: Cheng, Wei, et. al. “Aged Fragmented-Polypropylene Microplastics Induced Ageing Statues-Dependent Bioenergetic Imbalance and Reductive Stress: In Vivo and Liver Organoids-Based in Vitro Study.” ScienceDirect, www.sciencedirect.com/science/article/pii/S016041202400535X. Accessed 20 Sept. 2025.

- Title: An Overview of the Possible Exposure of Infants to Microplastics
- Article Type: Primary
- URL: https://www.mdpi.com/2075-1729/14/3/371
- Citation: Mišľanová, Csilla, et al. “An Overview of the Possible Exposure of Infants to Microplastics.” Multidisciplinary Digital Publishing Institute, 12 Mar. 2024, www.mdpi.com/2075-1729/14/3/371. Accessed 20 Sept. 2025

- Title: Microplastic and human health with focus on pediatric well-being: a comprehensive review and call for future studies
- Article Type: Review
- URL: https://pmc.ncbi.nlm.nih.gov/articles/PMC11725616/
- Citation: Chia, Rogers Wainkwa, et al. “Microplastic and Human Health with Focus on Pediatric Well-Being: A Comprehensive Review and Call for Future Studies.” Clinical and Experimental Pediatrics, U.S. National Library of Medicine, Jan. 2025, pmc.ncbi.nlm.nih.gov/articles/PMC11725616/. Accessed 20 Sept. 2025