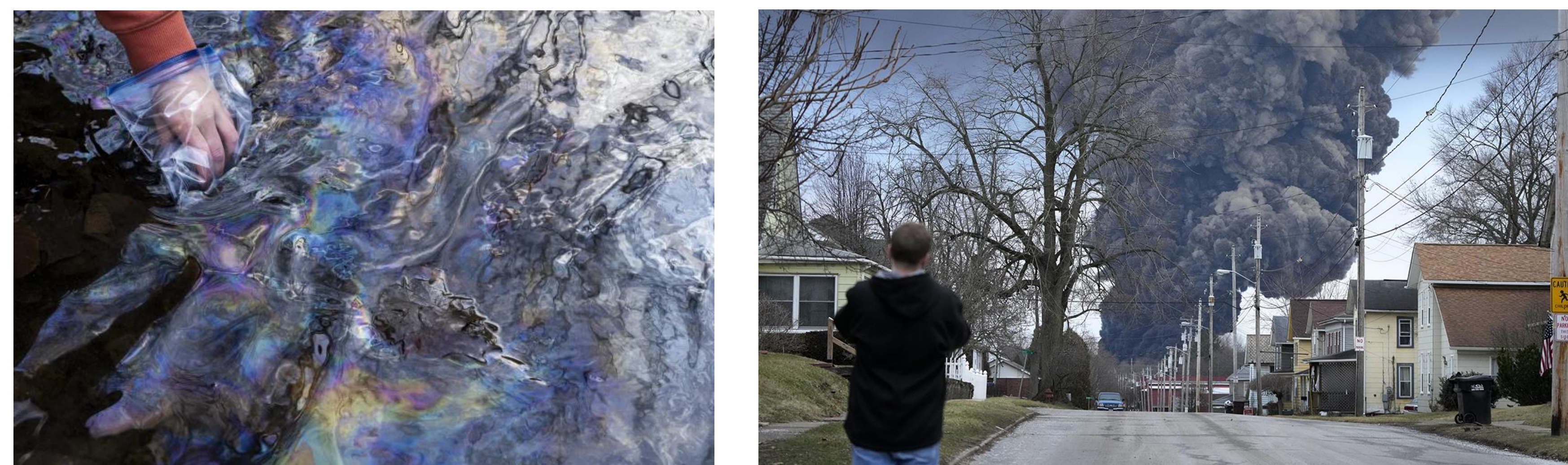


# The Ohio Train Derailment Using GIS

Lillian Nix

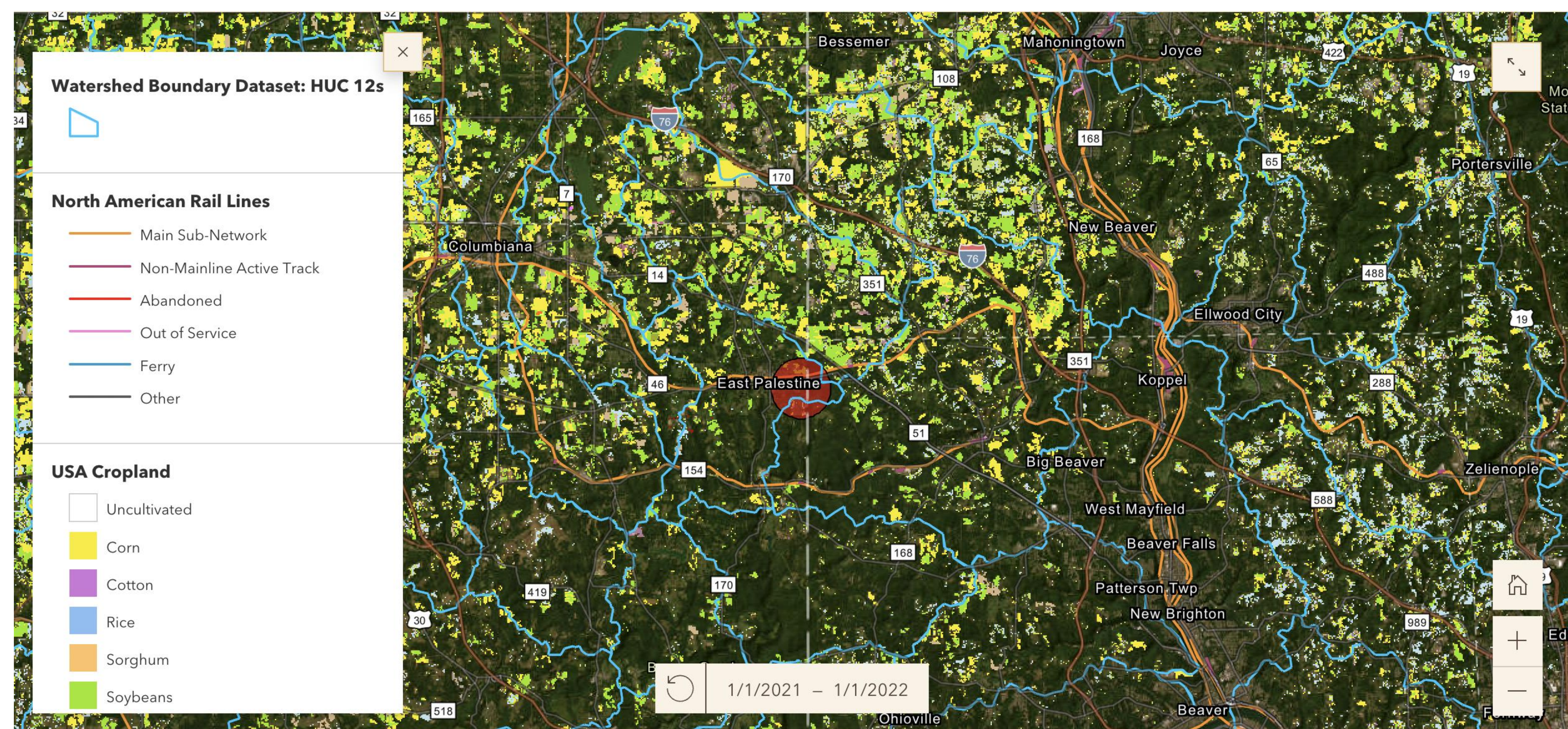
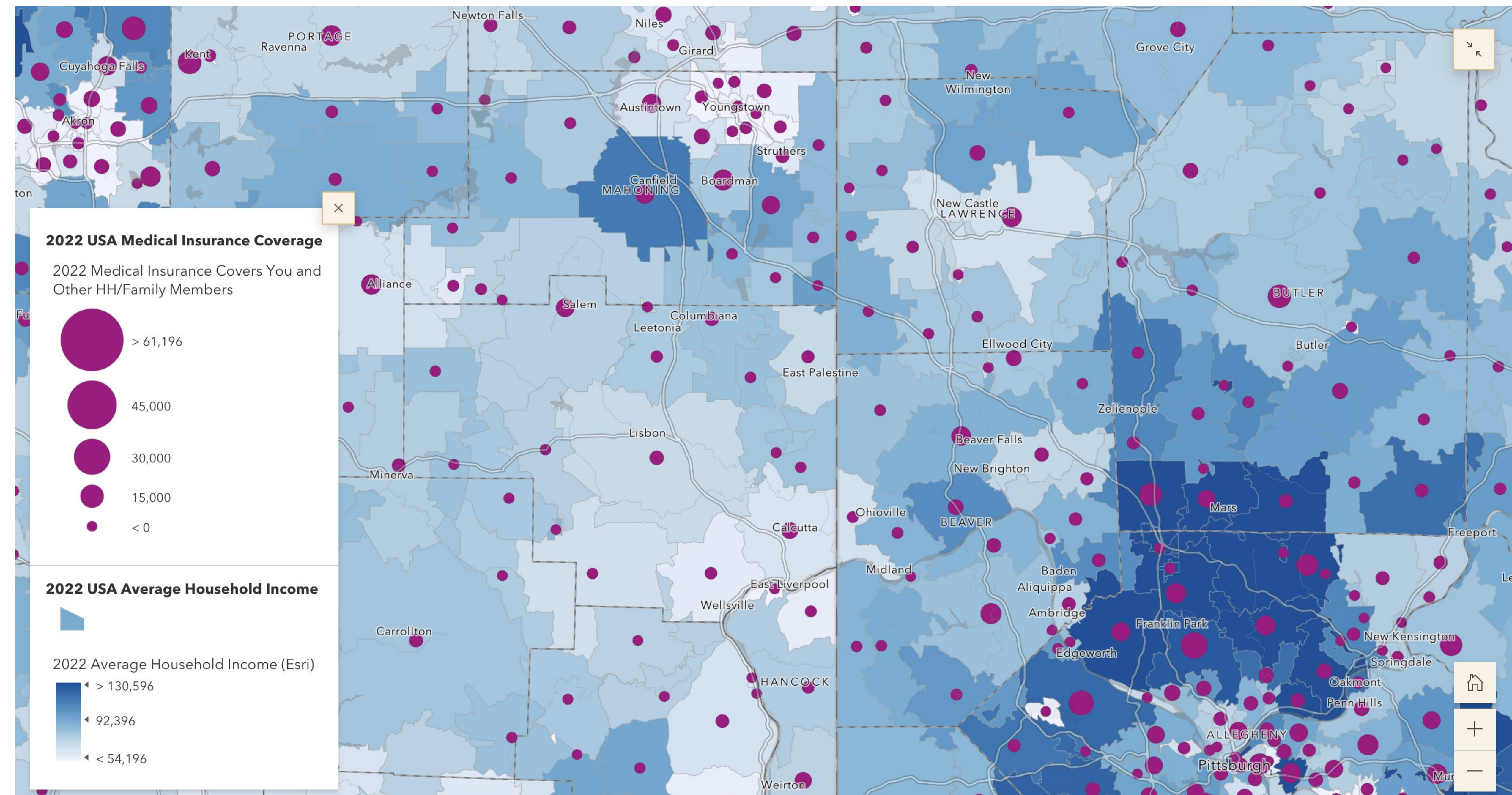
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On February 3rd, 2023, a Norfolk Southern train derailed releasing roughly 20 train cars worth of Hazardous chemicals into the environment. The chemicals that were released into the air, soil, and waterways were; vinyl chloride, butyl acrylate, ethylhexyl acrylate, and ethylene glycol monobutyl ethers. Norfolk Southern did a controlled burn of the chemicals to prevent an even more dangerous explosion, producing a large plume of black smoke.



GIS is an important tool when it comes to analyzing, interpreting, and presenting data. GIS is a computer system that integrates data onto a visual platform such as a map or graph. Geographic data from all around the world can be found in the ArcGIS Living Atlas.

Once data is layered onto a map, patterns and relationships can be viewed. This is especially important for environmental disasters such as the Ohio train derailment where the air, soil, and waterways were all affected from the spilled chemicals. GIS can allow users to view the possible spread and scale of the accident by seeing how the environment is all interconnected.



My story map:

<https://storymaps.arcgis.com/stories/182902b49cc442128ce4197f8bbf495a>