

PAG's Green Infrastructure Prioritization Tool

Enhancing Resiliency of Desert Urban Forests

This map, created by Pima Association of Governments, is a tool that can be used by municipalities, nonprofits and neighborhood groups to identify locations that would most benefit from green infrastructure. By using stormwater irrigation to enhance tree shade and reduce heat exposure, this tool helps to address key issues in our desert to enhance our environmental sustainability.

Why Green Infrastructure?

Green infrastructure (GI) is defined as bringing the natural and built environments together by using the landscape as living stormwater infrastructure. There are numerous benefits of incorporating GI strategies, including water conservation, reduced urban heat island effect, pavement preservation, traffic calming, flood mitigation, enhanced recreation, improved air and stormwater quality, energy conservation and higher property values.

What does the tool feature?

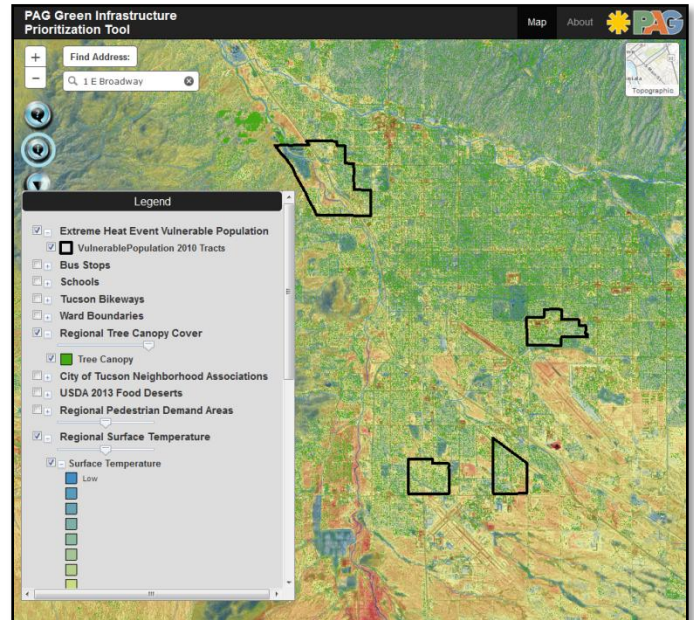
Tree canopy cover, impervious surfaces and stormwater flow path layers in the tool were created through analysis of PAG LiDAR datasets. Additional layers include areas of pedestrian use, surface temperature, heat vulnerable populations, watersheds, etc.



Tree canopy and stormwater flow path layers

Where can I find the tool?

<http://GISmaps.PAGregion.com/PAG-giMap>



A view of the map and layer selection panel

How do I use this tool?

This tool can help decision-makers to allocate limited resources and support GI efforts. Use the map and your own desired criteria to determine priorities and opportunities to meet your GI project goals. Select multiple layers and explore the relationships between environmental conditions and social demographics. Conserve2Enhance encourages grant applicants to use this map to demonstrate need.

For the Tucson Mayor's tree campaign, the City of Tucson worked with Pima Association of Governments to select priority blocks with above average surface temperature and below average tree canopy cover. Trees for Tucson uses the priority blocks to direct its community engagement efforts. So far more than 19,000 trees have been planted during the campaign.

PAG is working with Pima County and the University of Arizona to link stormwater quality monitoring sites to GI research, using this tool.

Ask us how we can address your planning needs:

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