

Using Greenprint to Analyze the Impact of Greening a Street

Greenprint can be used for a variety of purposes. This test case shows how Greenprint can be used to observe the impact of greening a street.

For this example, an area owned by AZ State Land Trust was selected for street greening, the parcel along the street at Bethany Home Rd and 43rd Avenue (the triangle on the Northeast side of Grand Avenue).

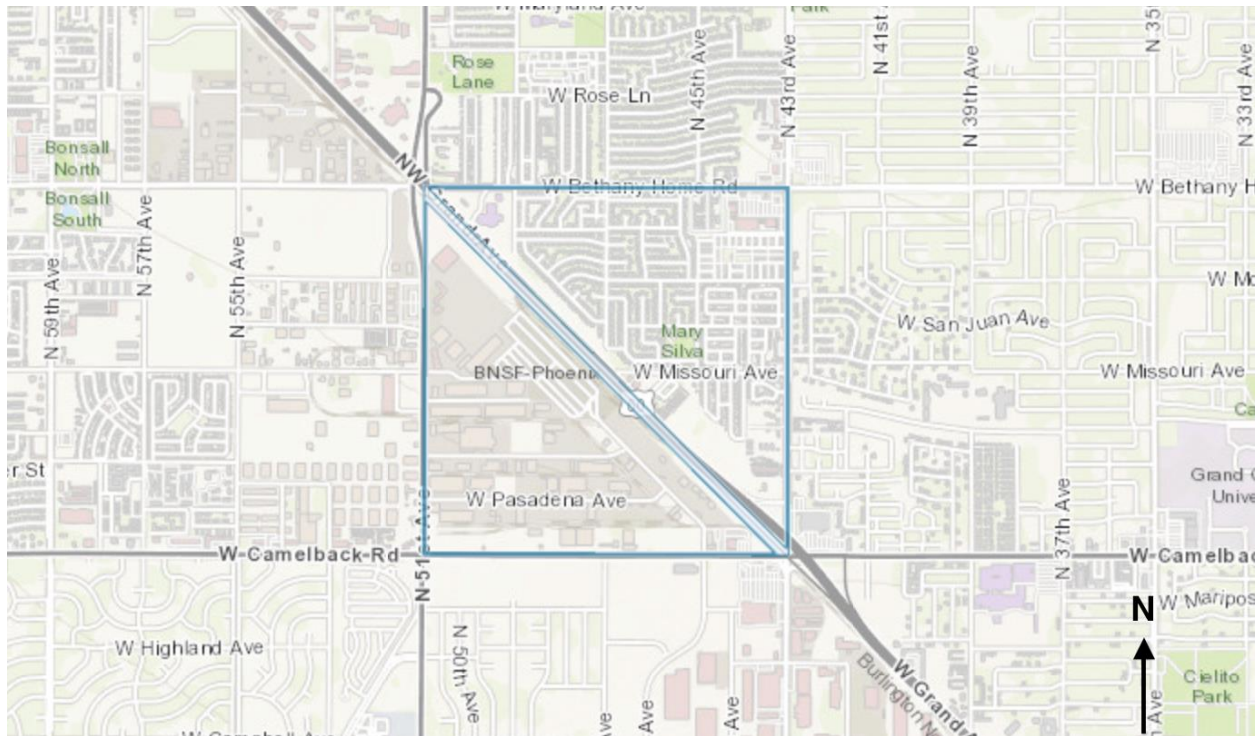


Figure 1: Map of AZSLT Parcel at 2N 2E 16

By running a report of the 10-minute walk, 10-minute cycle, and 20-minute drive impacts of greening this street (by setting it as a trail), the tool will show the demographic data of who this project would impact. Within the walk radius the project nearly 90% of the people impacted would be in underserved communities and nearly 50% in the low-income communities. Those numbers drop slightly as the radius is expanded for the cycle and drive reports, but the populations affected remains largely underserved communities. The details can be seen in the reports at the end of this document.

Greenprint also looks at natural resource infrastructure and park needs. The area selected for this project is in a high need area for parks. While greening a street isn't the same, it still offers natural areas in a place where there aren't many. The park needs layer can be seen below.

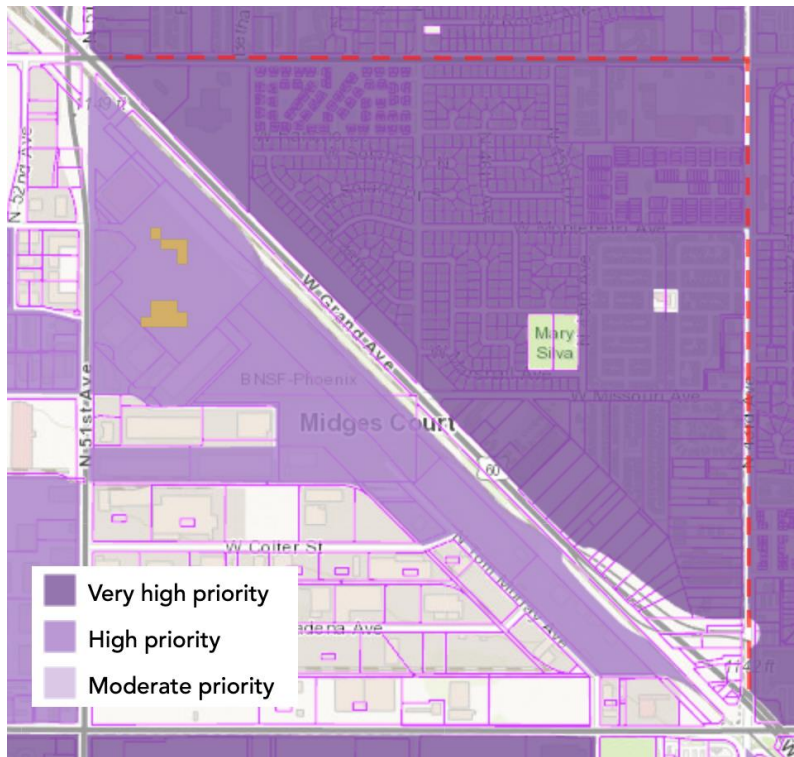


Figure 2: TLP's Priority Park Area Layer

Additionally, this area is a high heat vulnerability area, and adding a shade canopy to the street could help reduce the heat island in this area.

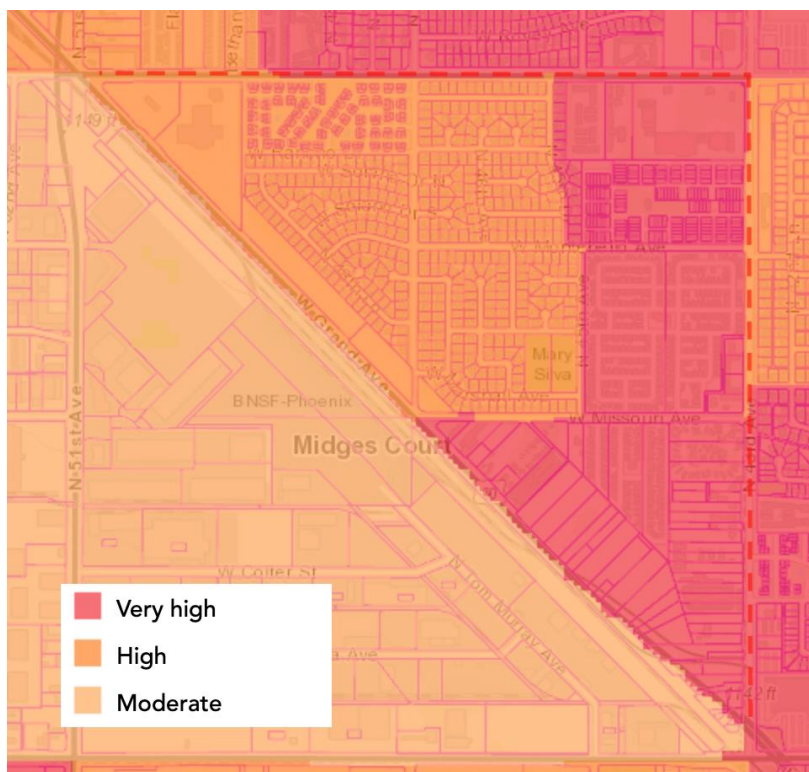


Figure 3: Greenprint Heat Vulnerability Layer

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Project Areas	
Greening Street	

Area Statistics		Value	
Project Area Count	0	Project Trail Count	1
Project Area Acres	0.00	Project Trail Miles	1.90
Service Area Acres	1227.41	New Service Area Acres	564.05

Legend

- New Access Points
- New Service Areas
- New Trail Projects

Ten Minute Walk

All statistical results are aggregated for the listed project areas and their service areas. Service areas are based on 10 minute (1/2 mile) walk times from project access points defined for each project area and based upon the walkable network. Existing parks and service areas are from the ParkServe database.



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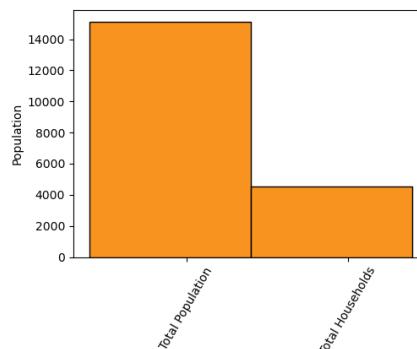
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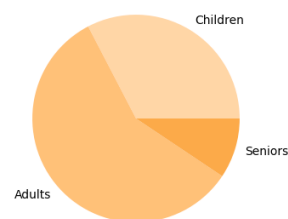
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Population	Served	Newly Served
Total Population	15,121	5,227
Households	4,528	1,456

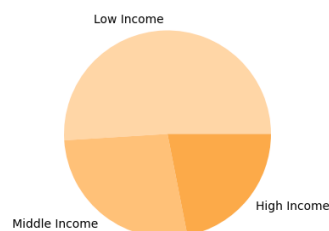


Age	Served	Percent	New	Percent
Children (< age 20)	4,935	32.6%	1,687	32.3%
Adults (age 20 to 64)	8,768	58.0%	3,057	58.5%
Seniors (> age 64)	1,417	9.4%	483	9.2%



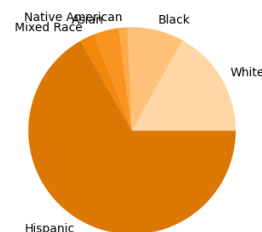
Income	Served	Percent	New	Percent
Low	2,308	51.0%	608	41.8%
Middle	1,227	27.1%	368	25.3%
High	992	21.9%	480	33.0%

Income brackets vary and are based on regional median income.



Race/Ethnicity *	Served	Percent	New	Percent
White	2,539	16.8%	714	13.7%
Black	1,321	8.7%	486	9.3%
Asian	583	3.9%	293	5.6%
Native American	203	1.3%	78	1.5%
Pacific / Hawaiian	21	0.1%	5	0.1%
Other Race	77	0.5%	30	0.6%
Mixed Race	353	2.3%	99	1.9%
Hispanic	10,025	66.3%	3,524	67.4%

* Hispanic origin separated from race



Demographic Information is derived from ESRI 2025 Demographic Forecast Blocks and Block Groups data.

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Project Areas and Trails

Greening Street

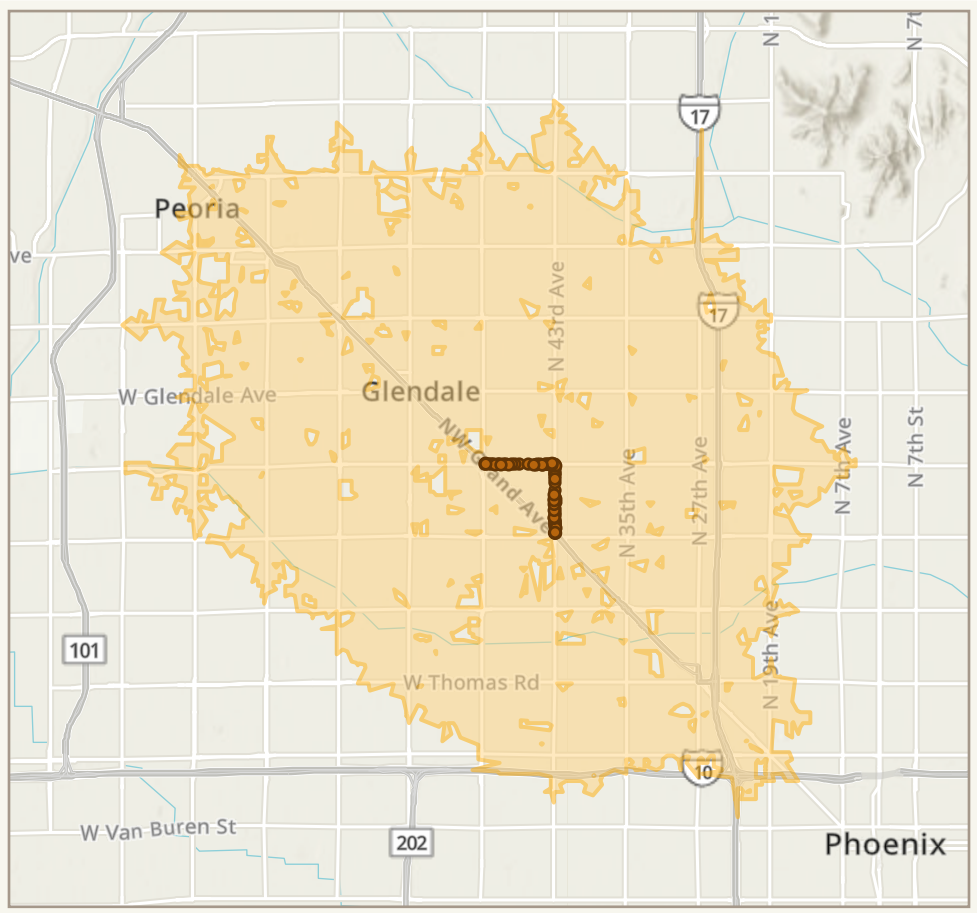
Area Statistics	Value
Project Area Count	0
Project Acres	0.00
Trail Count	1
Trail Miles	1.90
Service Area Acres	36551.60

All statistical results are aggregated for the listed project areas and their service areas. Service areas extent are based on service area extent defined for each project area. Transportation network access points are created by buffering the project area and intersecting with the transportation network.

10-minute cycle

Legend

- New Access Points
- New Trail Projects
- New Service Areas



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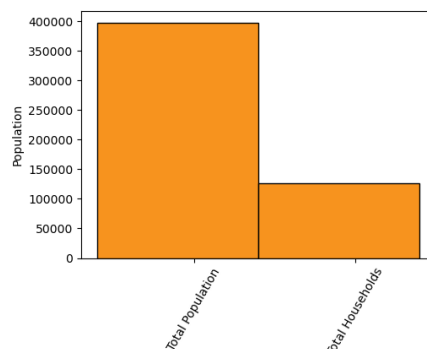
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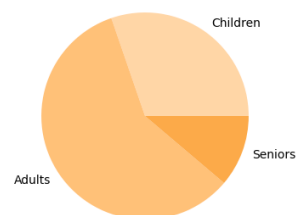
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Population	Served
Total Population	397,528
Households	126,608

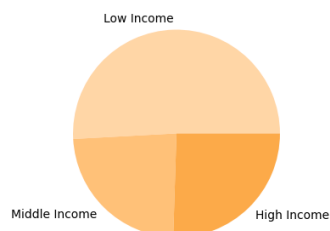


Age	Served	Percent
Children (< age 20)	120,327	30.3%
Adults (age 20 to 64)	232,689	58.5%
Seniors (> age 64)	44,512	11.2%



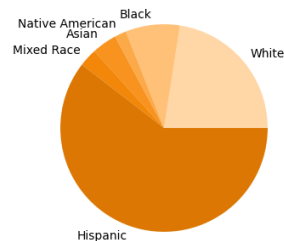
Income	Served	Percent
Low	64,374	50.8%
Middle	29,939	23.6%
High	32,291	25.5%

Income brackets vary and are based on regional median income.



Race/Ethnicity *	Served	Percent
White	89,030	22.4%
Black	33,451	8.4%
Asian	15,348	3.9%
Native American	7,244	1.8%
Pacific / Hawaiian	668	0.2%
Other Race	1,836	0.5%
Mixed Race	11,163	2.8%
Hispanic	238,788	60.1%

* Hispanic origin separated from race



Demographic Information is derived from ESRI 2025 Demographic Forecast Block and Block Groups data.

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Project Areas and Trails

Greenprint Project

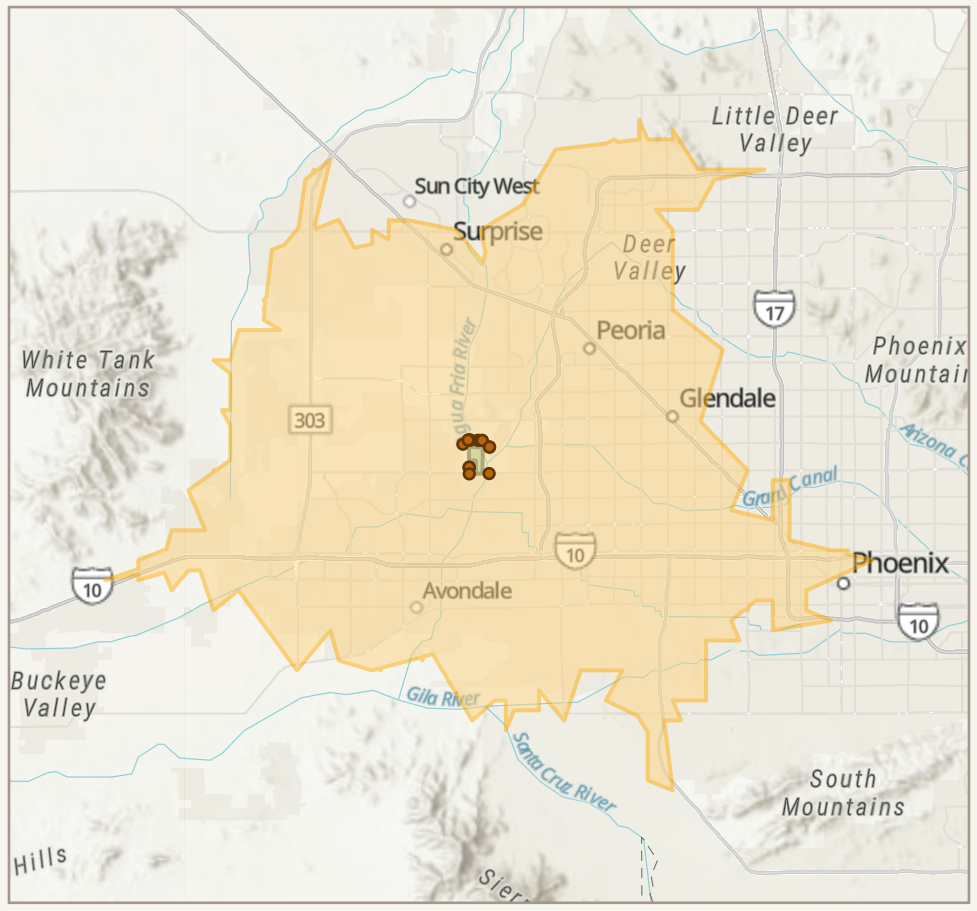
Area Statistics	Value
Project Area Count	1
Project Acres	244.71
Trail Count	0
Trail Miles	0.00
Service Area Acres	218998.35

All statistical results are aggregated for the listed project areas and their service areas. Service areas extent are based on service area extent defined for each project area. Transportation network access points are created by buffering the project area and intersecting with the transportation network.

20-minute drive

Legend

- New Access Points
- New Project Areas
- New Service Areas



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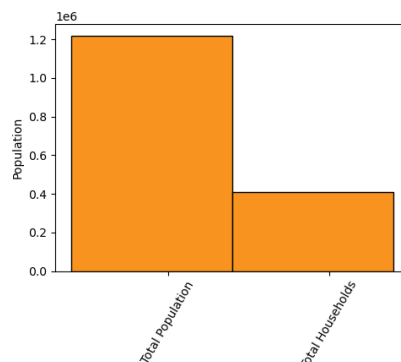
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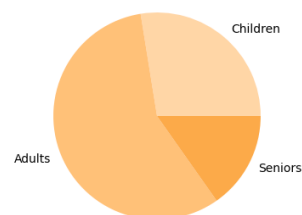
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Population	Served
Total Population	1,218,094
Households	410,566

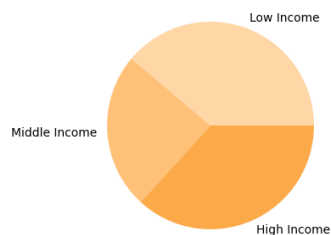


Age	Served	Percent
Children (< age 20)	335,368	27.5%
Adults (age 20 to 64)	697,076	57.2%
Seniors (> age 64)	185,649	15.2%



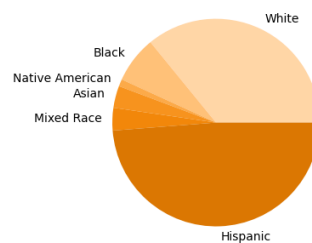
Income	Served	Percent
Low	159,657	38.9%
Middle	99,933	24.3%
High	150,969	36.8%

Income brackets vary and are based on regional median income.



Race/Ethnicity *	Served	Percent
White	434,544	35.7%
Black	88,035	7.2%
Asian	41,398	3.4%
Native American	13,411	1.1%
Pacific / Hawaiian	2,649	0.2%
Other Race	5,259	0.4%
Mixed Race	42,603	3.5%
Hispanic	590,195	48.5%

* Hispanic origin separated from race



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