

Using Greenprint to Analyze the Impact of Creating a New Park

Greenprint can be used for a variety of purposes. This test case shows how Greenprint can be used to observe the impact of creating a new park.

For this example, an area owned by AZ State Land Trust was selected for creating a park, the parcel is at the conjunction of the Agua Fria River and New River at Camelback and El Mirage Rd.

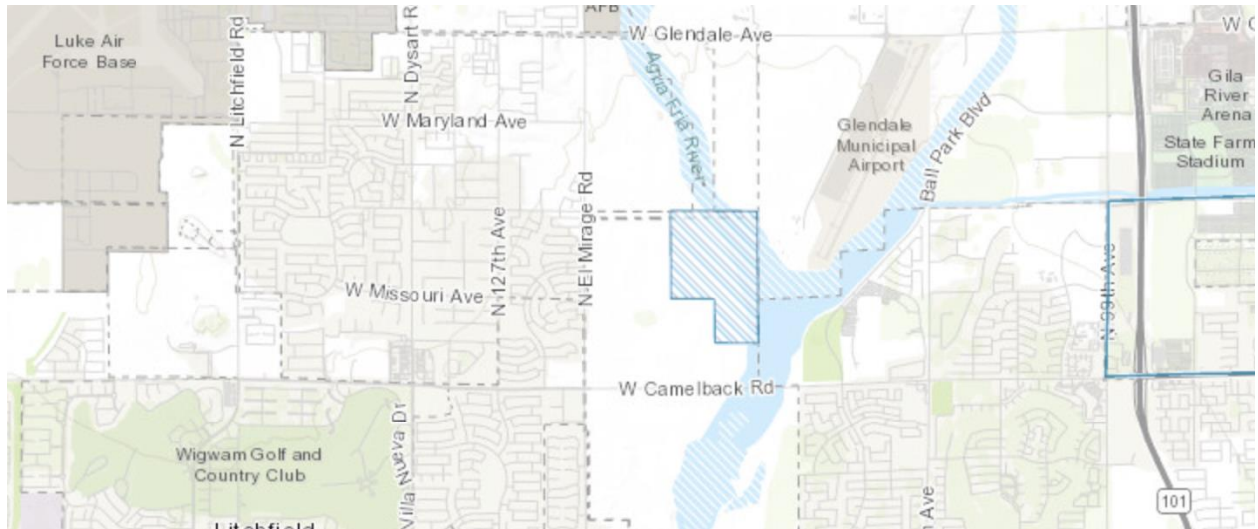


Figure 1: Map of AZSLT Parcel at TRS 2N 1W 13

By running a report of the 10 minute walk, 10 minute cycle, and 20 minute drive impacts of creating this park, the tool will show the demographic data of who this project would impact. Within the walk radius the project over 80% of the people impacted would be in underserved communities and over 40% in the low-income communities. Those numbers drop slightly as the radius is expanded for the cycle and drive reports, but the populations affected still 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. The park need layer can be seen below.

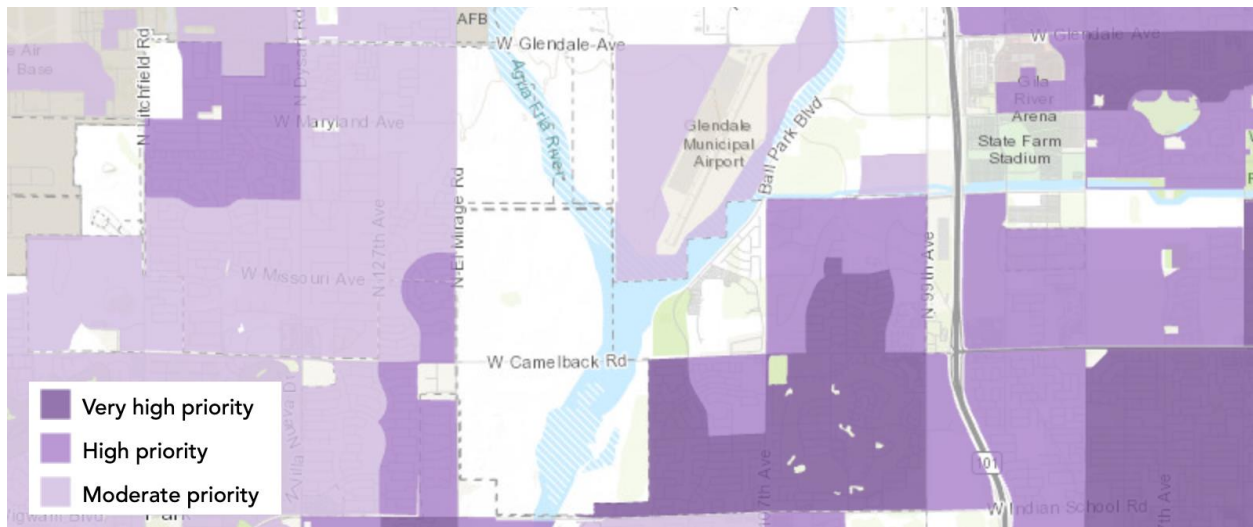


Figure 2: TLP's Priority Park Area Layer

This area is adjacent to a heat island, so it is critical to keep the temperature of the area cooler.

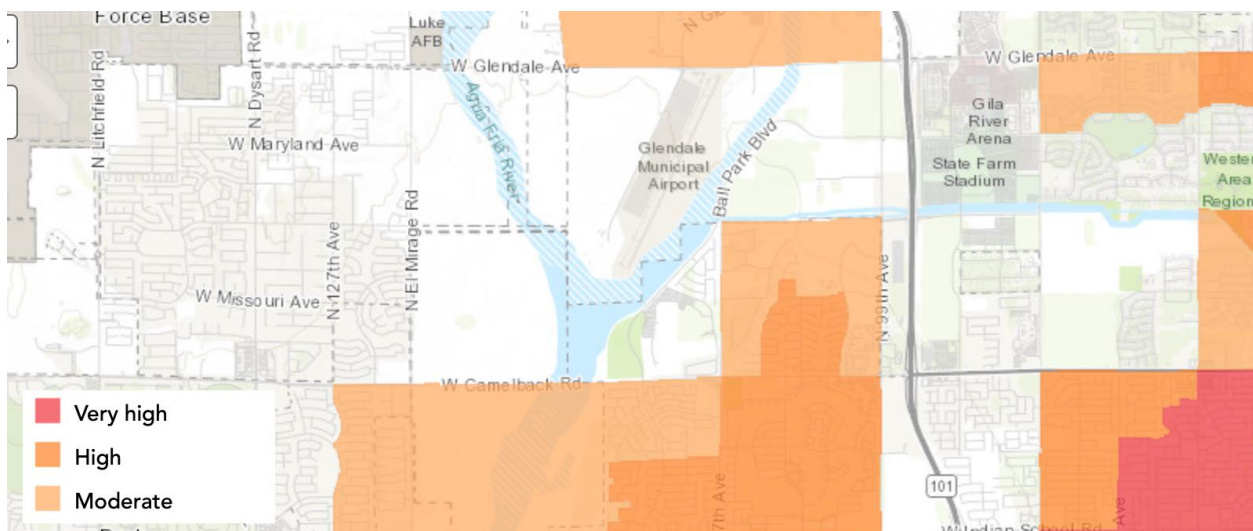


Figure 3: Greenprint Heat Vulnerability Layer

This parcel is also critical for protecting water resources and ensuring habitat integrity. It is a critical migration corridor through the urban Phoenix Metro Area. The next two maps display this data.

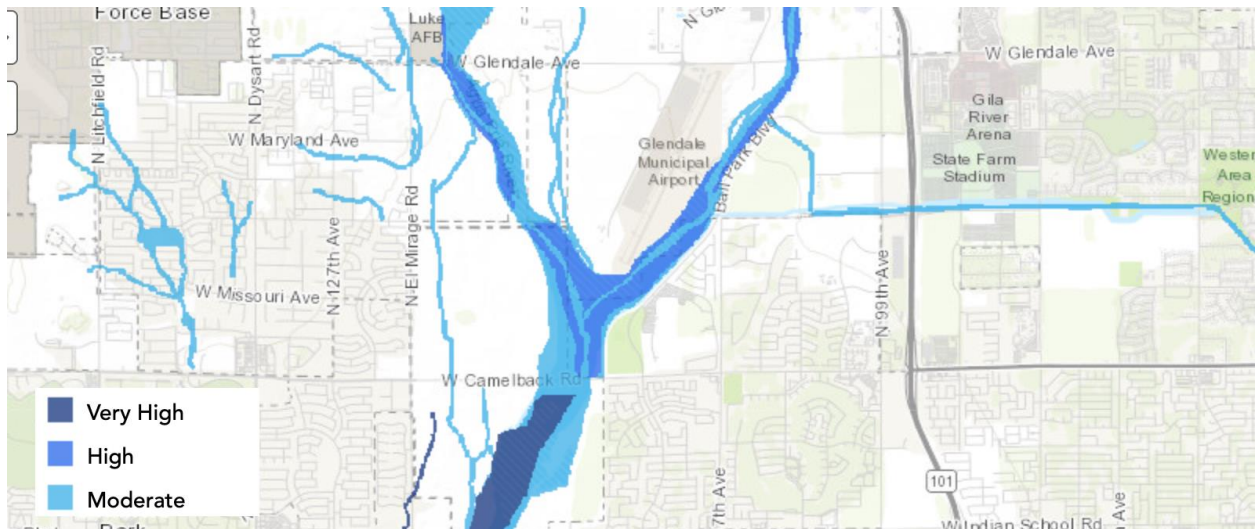


Figure 4: Greenprint Protect Water Resources Layer

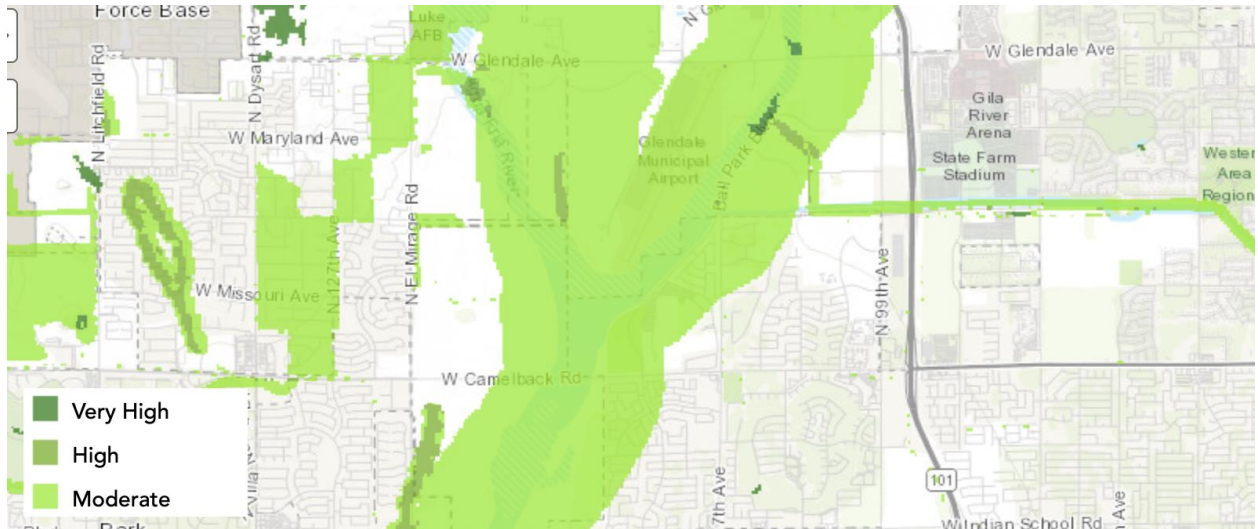


Figure 4: Greenprint Ensure Habitat Integrity

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Project Areas

Greenprint Project

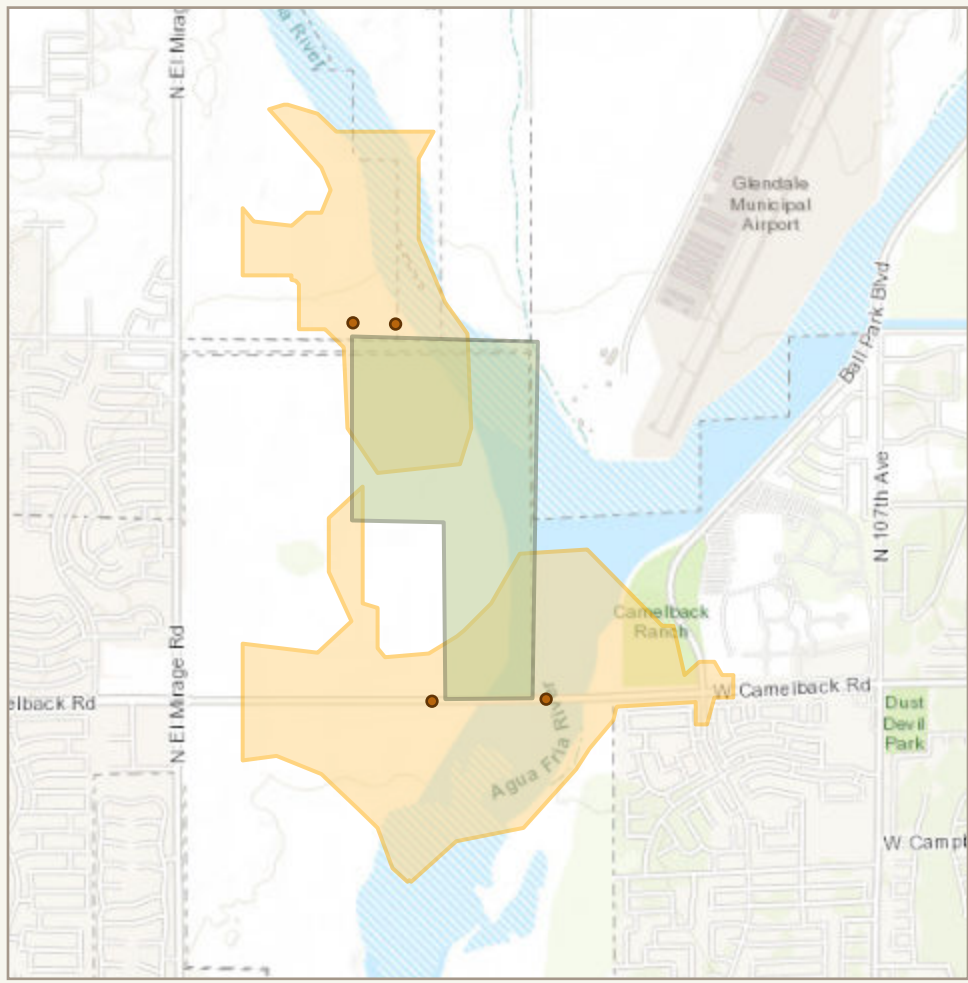
Area Statistics		Value	
Project Area Count	1	Project Trail Count	0
Project Area Acres	244.71	Project Trail Miles	0.00
Service Area Acres	633.05	New Service Area Acres	630.29

Legend

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

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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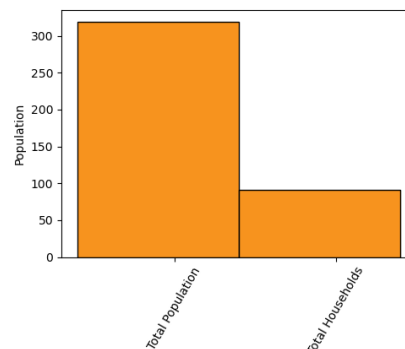
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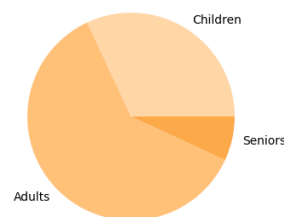
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Population	Served	Newly Served
Total Population	319	319
Households	91	91

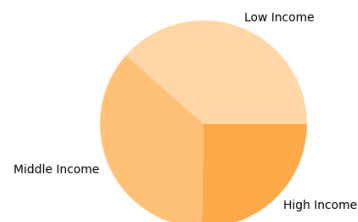


Age	Served	Percent	New	Percent
Children (< age 20)	102	32.0%	102	32.0%
Adults (age 20 to 64)	195	61.1%	195	61.1%
Seniors (> age 64)	22	6.9%	22	6.9%



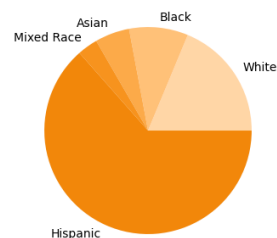
Income	Served	Percent	New	Percent
Low	35	38.5%	35	38.5%
Middle	33	36.3%	33	36.3%
High	23	25.3%	23	25.3%

Income brackets vary and are based on regional median income.



Race/Ethnicity *	Served	Percent	New	Percent
White	59	18.5%	59	18.5%
Black	29	9.1%	29	9.1%
Asian	17	5.3%	17	5.3%
Native American	2	0.6%	2	0.6%
Pacific / Hawaiian	1	0.3%	1	0.3%
Other Race	1	0.3%	1	0.3%
Mixed Race	10	3.1%	10	3.1%
Hispanic	200	62.7%	200	62.7%

* 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

Greenprint Project

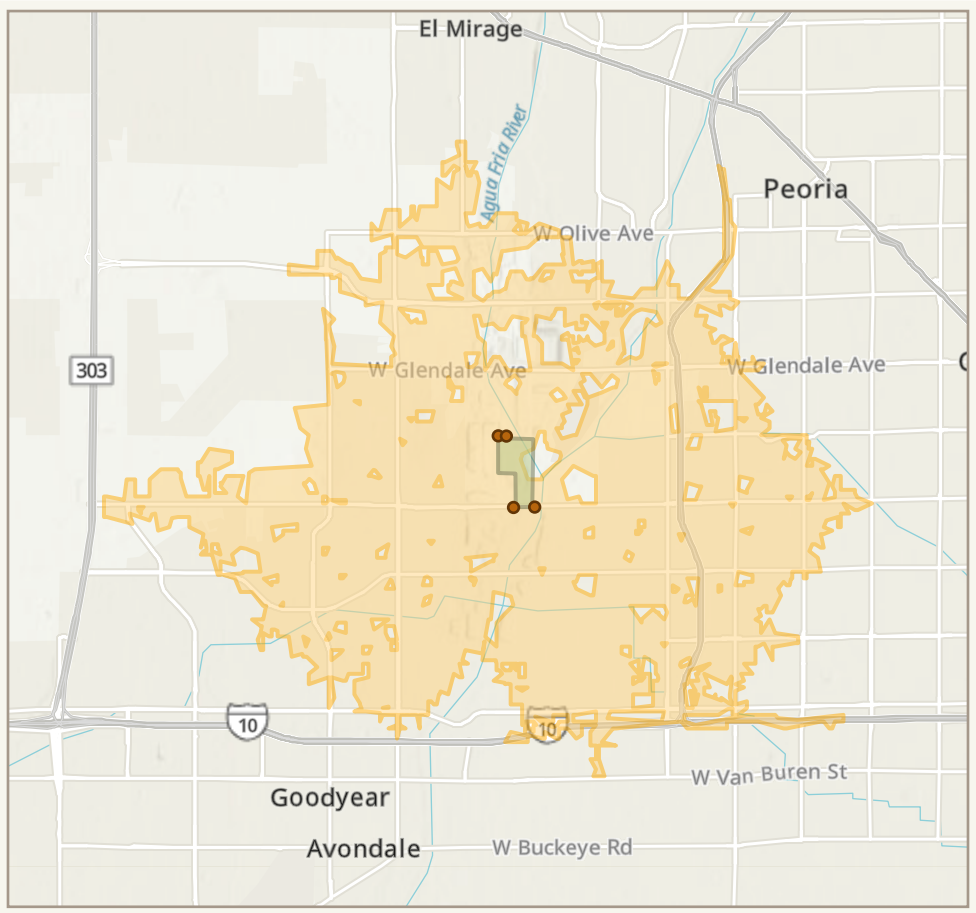
Area Statistics	Value
Project Area Count	1
Project Acres	244.71
Trail Count	0
Trail Miles	0.00
Service Area Acres	28203.85

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 Project Areas
- New Service Areas



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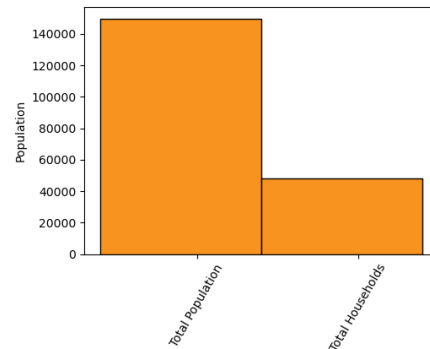
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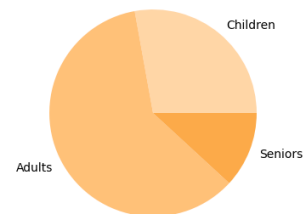
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Population	Served
Total Population	149,678
Households	47,987

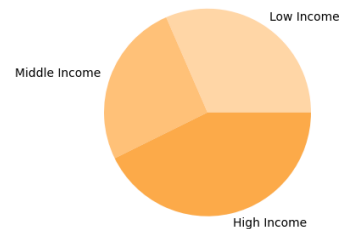


Age	Served	Percent
Children (< age 20)	41,658	27.8%
Adults (age 20 to 64)	90,285	60.3%
Seniors (> age 64)	17,735	11.8%



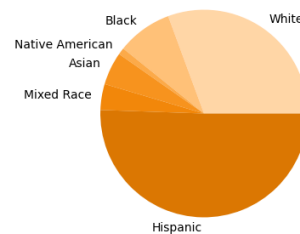
Income	Served	Percent
Low	15,136	31.5%
Middle	12,354	25.7%
High	20,497	42.7%

Income brackets vary and are based on regional median income.



Race/Ethnicity *	Served	Percent
White	45,480	30.4%
Black	12,775	8.5%
Asian	7,612	5.1%
Native American	1,574	1.1%
Pacific / Hawaiian	417	0.3%
Other Race	748	0.5%
Mixed Race	6,004	4.0%
Hispanic	75,067	50.2%

* 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

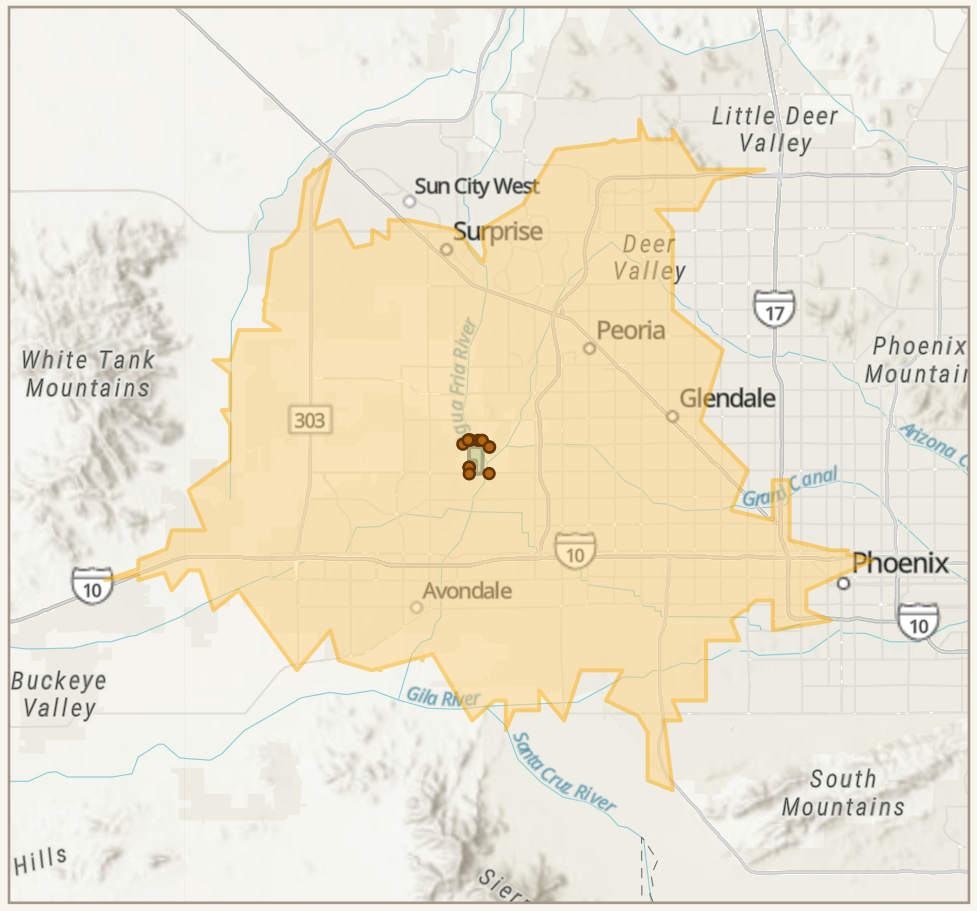
Area Statistics	Value
Project Area Count	1
Project Acres	244.71
Trail Count	0
Trail Miles	0.00
Service Area Acres	218998.35

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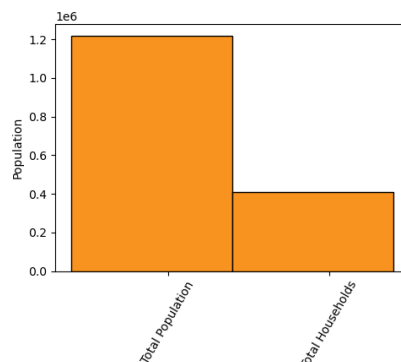
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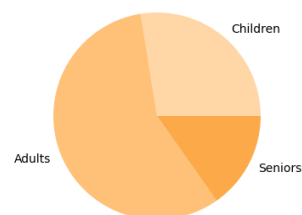
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Population	Served
Total Population	1,218,094
Households	410,566

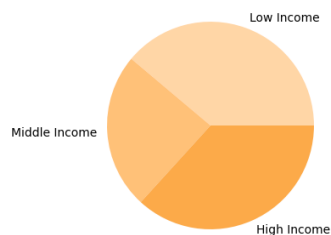


Age	Served	Percent
Children (< age 20)	335,368	27.5%
Adults (age 20 to 64)	697,076	57.2%
Seniors (> age 64)	185,649	15.2%



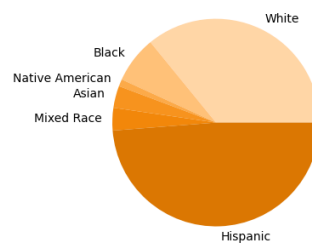
Income	Served	Percent
Low	159,657	38.9%
Middle	99,933	24.3%
High	150,969	36.8%

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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