SUPPORTING ANALYSIS · LIBERTY BRANCH LIBRARY

Delaware County Library: Liberty Branch Bicycle Service Area Analysis

Quantifying the residents, households, and children impacted by the lack of safe bicycle and pedestrian access along Steitz Road.

419
Households
within 2 miles

1,180
Residents
across two townships

318
Children <18
within service area

<10 min
By bicycle
2 miles or less

An estimated 1,180 residents, including 318 children under age 18, live within a 2-mile, sub-10-minute bicycle ride of the Liberty Township Branch Library — but lack a direct and safe bicycle / pedestrian connection.

KEY TAKEAWAYS

What the data tells us.

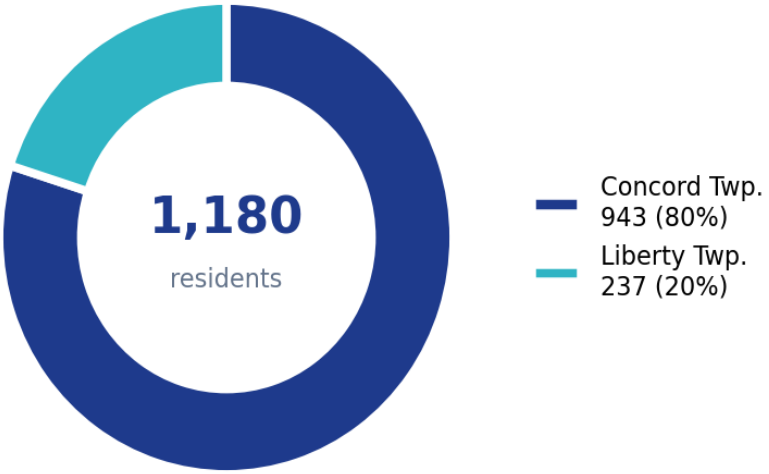
- ✓ This is not a distance problem. It is a safety and access gap.
- ✓ The library is close enough to reach, but not safe enough to access.
- ✓ More than 1,100 residents live within practical bicycling distance.
- ✓ More than 300 children live within the service area.
- ✓ The current alternative requires crossing Steitz Road twice — even though the library sits on the same side of the road as the impacted neighborhoods.

RESIDENTIAL PARCEL & DEMOGRAPHIC ANALYSIS

Who lives within the service area.

Township	Households	Residents	Adults	Children
Concord Township	335	943	689	254
Liberty Township	84	237	173	64
Total	**419**	**1,180**	**862**	**318**

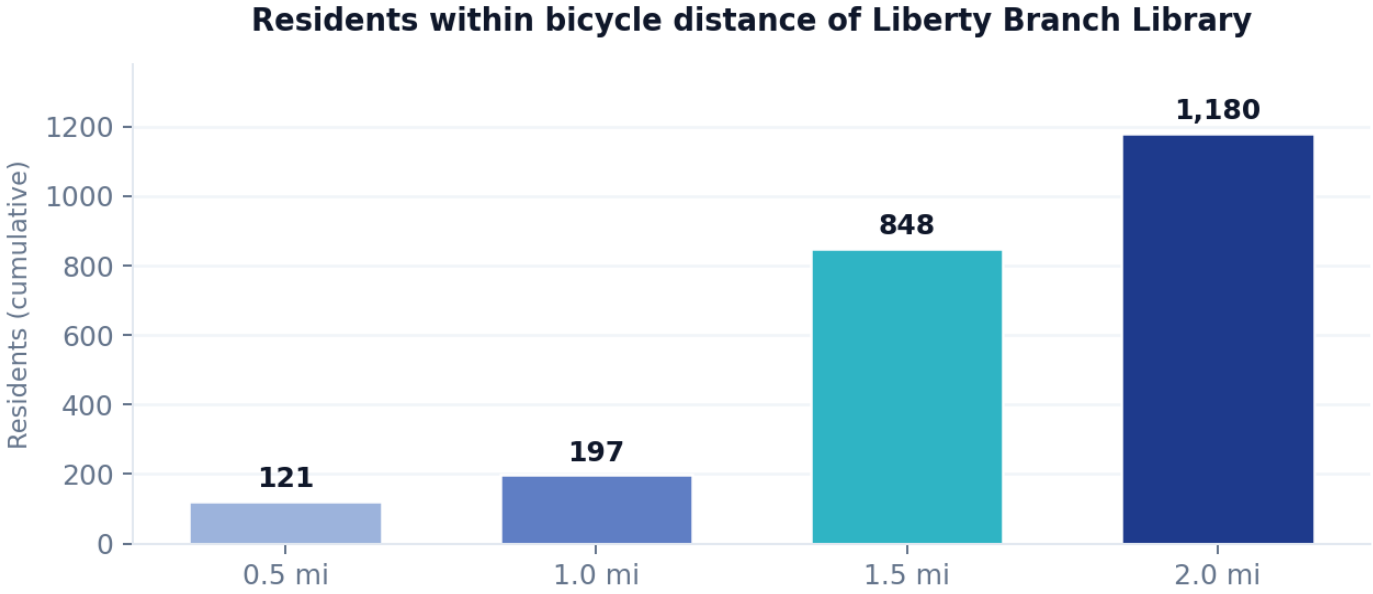
Residents by township



~80% of identified households are in Concord Township, while the library and corridor sit within Liberty Township — underscoring this as a cross-jurisdictional connectivity gap.

PROXIMITY ANALYSIS

How quickly residents could reach the library.



The densest band is the 2.0-mile ring at 1,180 residents — the full cumulative service area. Each additional half-mile of safe connection unlocks meaningfully more residents, households, and children.

WITHIN 0.5 MI

43

households

121 residents · **33** children

WITHIN 1.0 MI

70

households

197 residents · **53** children

WITHIN 1.5 MI

301

households

848 residents · **228** children

WITHIN 2.0 MI

419

households

1,180 residents · **318** children

70%+

of identified households live within 1.5 mi of the library.

848

residents — including 228 children — live within 1.5 mi.

120+

residents live within practical walking distance (0.5 mi).

EXISTING ACCESS CHALLENGE

The problem isn't distance. It's the route.

✓ DIRECT STEITZ ROAD CONNECTION

Safer, shorter, more intuitive

- Library and impacted neighborhoods on the same side of Steitz Road
- Avoids unnecessary roadway crossings
- Provides a safer and more intuitive connection

⚠ LIBERTY GRAND ALTERNATIVE

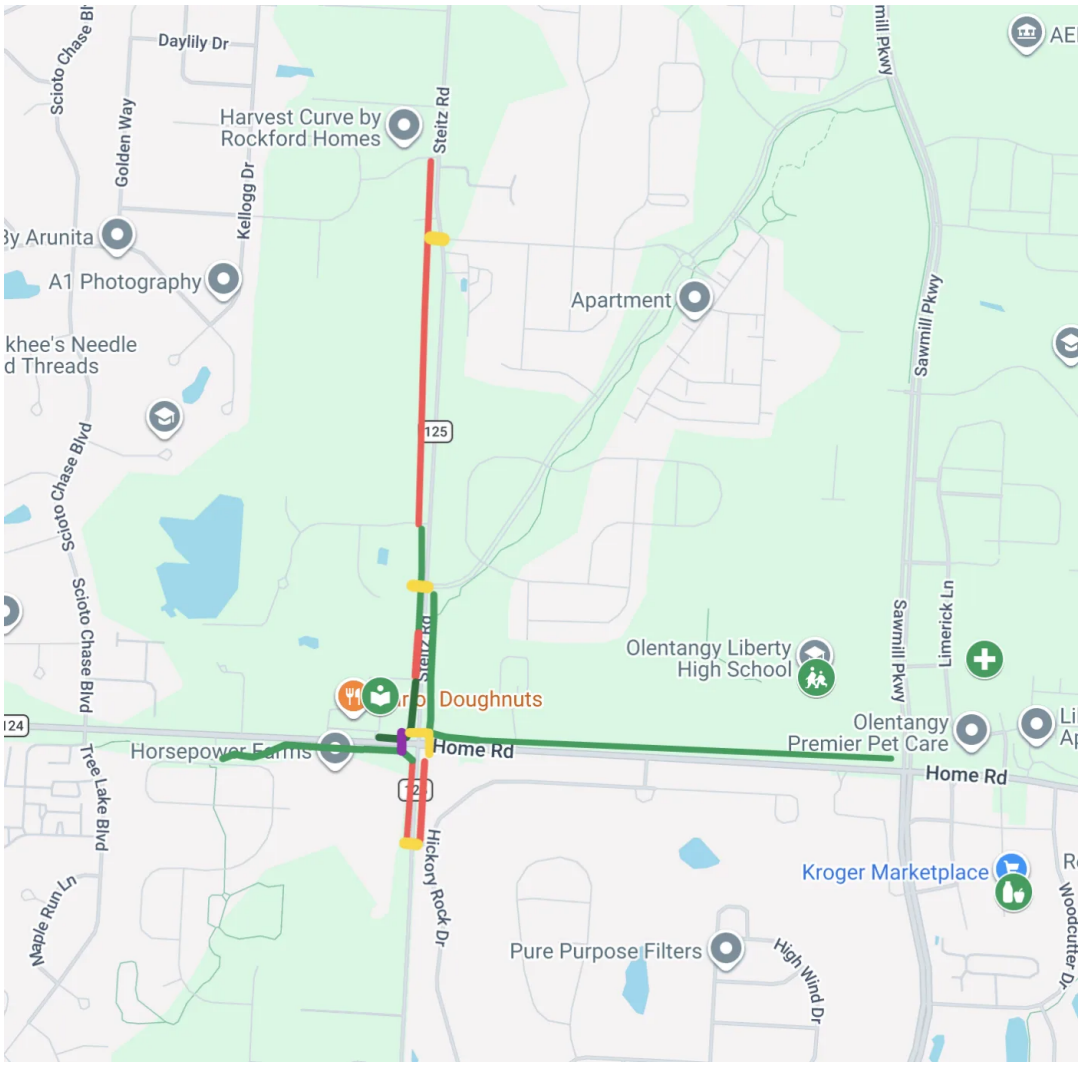
Longer, exposed, two crossings

- Requires crossing Steitz Road twice
- Steitz Road is posted at 45 MPH
- Adds 0.3 miles to the trip
- Adds ~20% to the trip for Harvest Curve and Scioto Reserve residents
- Introduces unnecessary conflict points with vehicle traffic

“Residents are being asked to cross a 45 MPH roadway twice to reach a destination that is already located on their side of the street.”

PRIMARY RECOMMENDATION

A direct Steitz Road connection.



Map legend: ■ proposed path · ■ existing path · ● proposed crossing · ● approved crossing (Liberty Twp.)

Build a continuous pedestrian/bicycle facility along Steitz Road so residents can reach the library on the same side of the road they already live on. The recommended route is shorter, removes both 45 MPH crossings, and is ~20% faster for Harvest Curve and Scioto Reserve residents.

WHY THIS MATTERS

The library is more than a building.

The Liberty Township Branch is a public asset whose value depends entirely on whether residents can safely reach it.

Educational resources	**Children's programming**	**Community events**
Internet access	**Study spaces**	**Public services**

CONCLUSION

The current lack of a direct bicycle and pedestrian connection along Steitz Road limits safe access to a major public asset for hundreds of nearby households.

A direct connection would improve accessibility, reduce roadway crossings, and provide a safer route for residents in both Concord Township and Liberty Township.

METHODOLOGY & DATA SOURCES

How the analysis was assembled.

Delaware County Auditor GIS

Residential parcel data within the study area

U.S. Census Bureau Geocoder

Address geocoding and Census geography matching

U.S. Census Bureau

Demographic data for population and age estimates

Geoapify Routing API

Bicycle distance and travel-time calculations

All counts are estimates derived from public parcel records and Census demographic data. Travel-time figures reflect typical bicycle routing along available roadways.