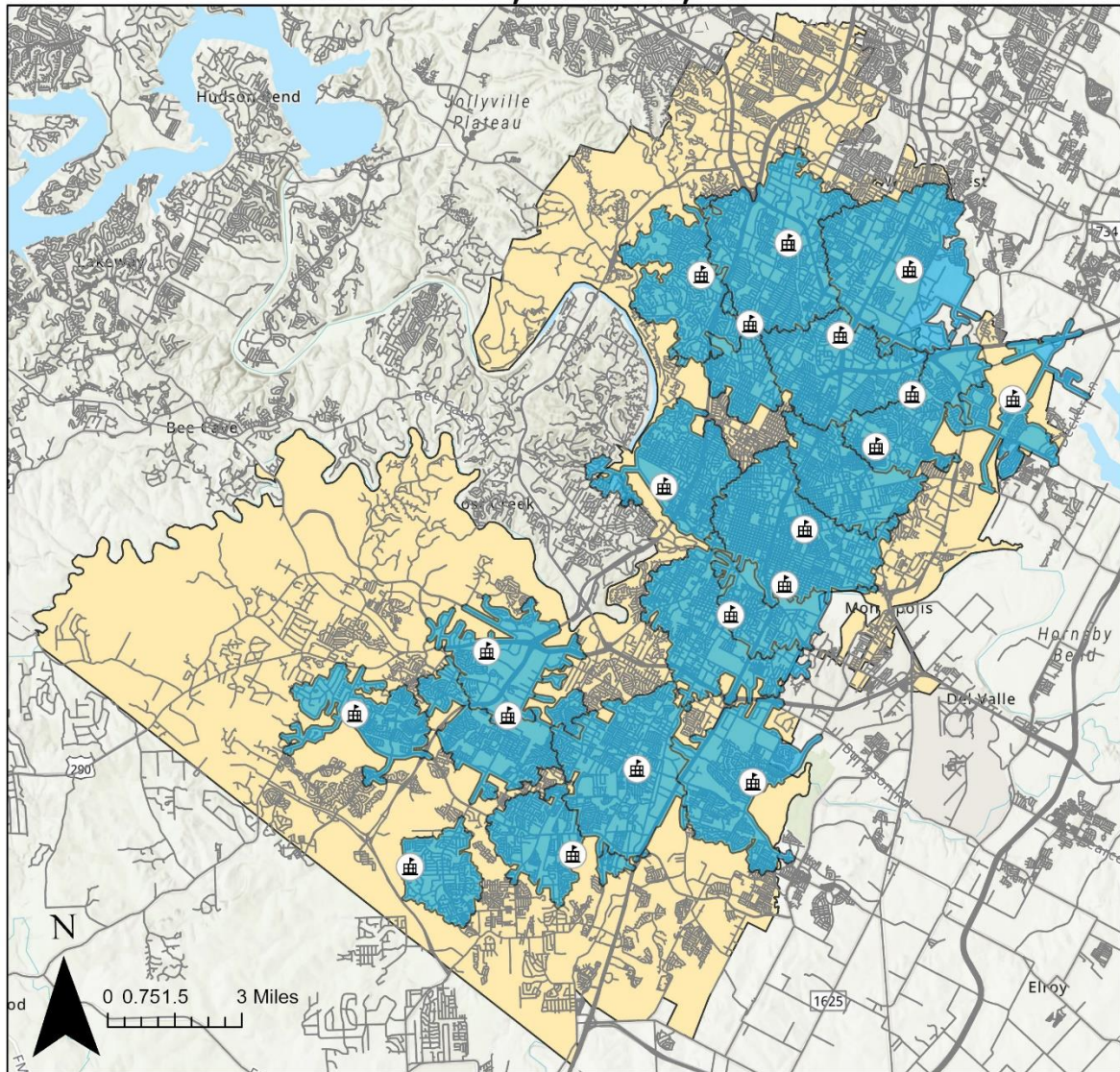


Austin Transitshed Map

1. Create 45-minute transitsheds for the 19 middle schools within the Austin Independent School District and answer the following questions:
 - What is the name of the middle school with the smallest transitshed in the district? And what is the area of that transitshed (in mi^2)? Report to two decimal places. **(15 pts)**
The middle school with the smallest transitshed is Bailey Middle School (school 3). Transitshed area of 2.93mi^2 .
 - What is the name of the middle school with the largest transitshed in the district? And what is the area of that transitshed (in mi^2)? Report to two decimal places. **(15 pts)**
The middle school with the largest transitshed is Webb Middle School (school 16). Transitshed area of 11.07mi^2 .
2. Create 45-minute transitsheds for the 15 high schools within the Austin Independent School District and answer the following questions:
 - What is the name of the high school with the smallest transitshed in the district? And what is the area of that transitshed (in mi^2)? Report to two decimal places. **(15 pts)**
The high school with the smallest transitshed is Eastside Memorial High School (school 14). Transitshed area of 3.02mi^2 .
 - What is the name of the high school with the largest transitshed in the district? And what is the area of that transitshed (in mi^2)? Report to two decimal places. **(15 pts)**
The high school with the largest transitshed is Garza High School (school 1). Transitshed area of 11.70mi^2 .
3. Print two maps of school transitsheds (one for middle schools, and the other one for high schools). **(30 pts each, 60 pts total)**

Middle School District Boundary 45 Minute Transitshed Austin ISD, Austin, TX 2022



Legend

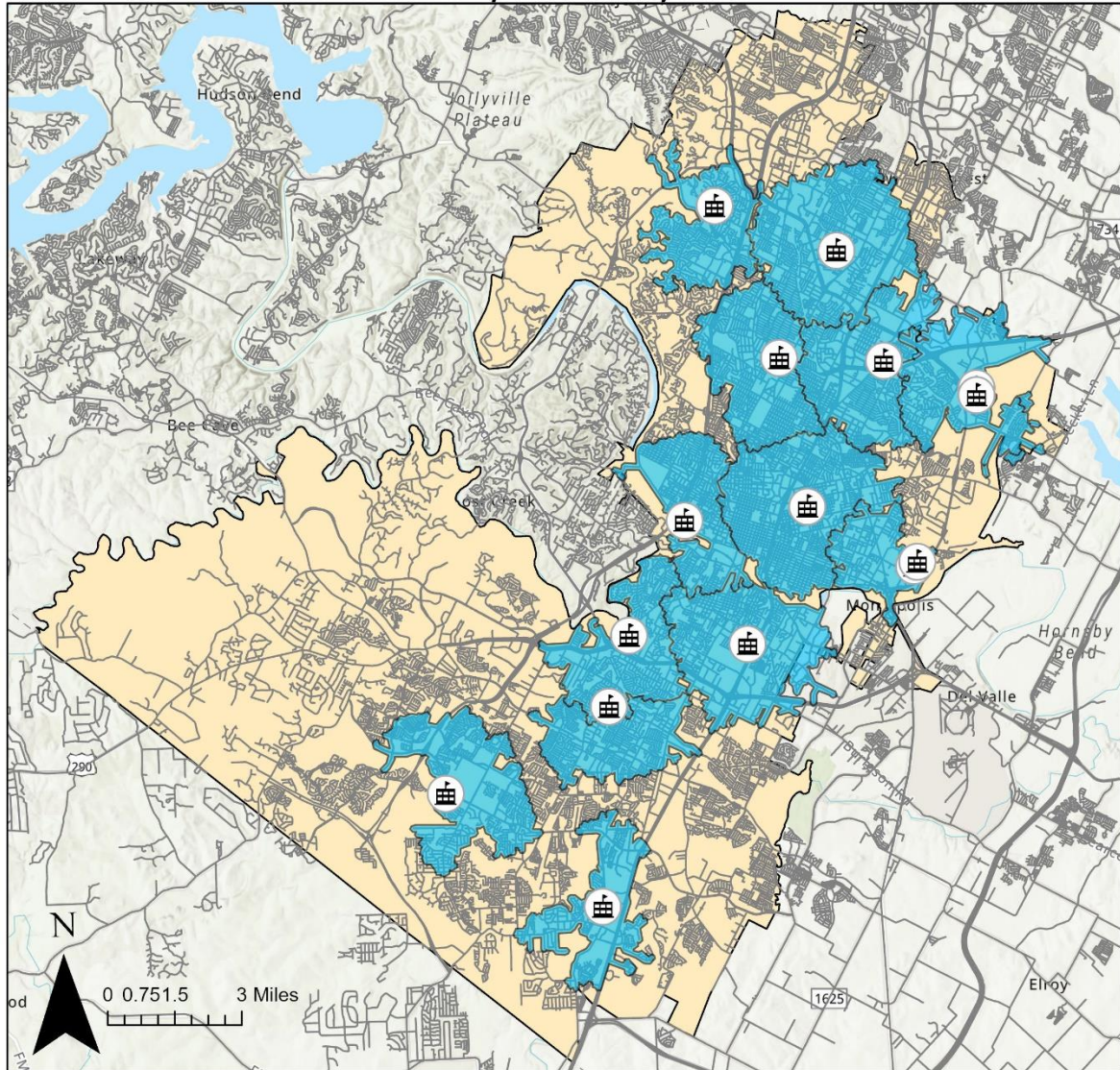
- School Boundary
- Streets
- AustinISD
- ⛪ Middle School

Projected Coordinate System:
NAD 1983 2011 StatePlane Texas Central FIPS 4203 Ft US

Created by Megan Morgan, May 31, 2022

Basemap: Austin Community College, Texas Parks & Wildlife, CONANP, Esri, HERE, Garmin, SafeGraph, METI/ NASA, USGS, EPA, NPS, USDA, Esri, NASA, NGA, USGS

High School District Boundary 45 Minute Transitshed Austin ISD, Austin, TX 2022



Legend

School Boundary

Cutoff

45

Streets

Austin_School_District

High School

Projected Coordinate System:

NAD 1983 StatePlane Texas Central FIPS 4203 Feet

Created by Megan Morgan, May 31, 2022

Basemap: Austin Community College, Texas Parks & Wildlife, CONANP, Esri, HERE, Garmin, SafeGraph, METI/ NASA, USGS, EPA, NPS, USDA, Esri, NASA, NGA, USGS

4. You are also provided the TIGER/Line with Selected Demographic and Economic Data for the state of Texas (ACS_2019_5YR_BG_48.gdb). In the geodatabase, the 2019 American Community Survey for the information about age and sex for Travis County is available at the block group level. Assume that any block group that intersects the school transitsheds has good access by transit to the nearest school. Determine the school-age population and complete the following table. (Note: Use BG_METADATA_2019 for variable descriptions) (30 pts)

		10 to 14 years (Estimate) * Population of the block groups intersecting the middle school transitsheds	15 to 17 years (Estimate) * Population of the block groups intersecting the high school transitsheds
Block groups intersecting the school transitsheds	Male	16,776	8,482
	Female	15,455	8,352
	Total	32,231	16,834
Block groups intersecting the Austin School District Boundary	Male	24,042	12,867
	Female	22,978	12,502
	Total	47,020	25,369