The 5-minute walk

https://morphocode.com/the-5-minute-

 $\frac{\text{walk/\#:}^{\sim}: \text{text=Based}\%20 \text{on}\%20 \text{the}\%20 \text{average}\%20 \text{walking,access}\%20 \text{to}\%20 \text{destinations}\%20 \text{within}\%20 \text{neighborhoods.}$

Walkable distances in policy

"Walkable neighborhoods are typically characterized by having a range of community services within 5-10 minutes (400–800 metres/0.25-0.5 miles) walking distance of residential areas which residents may access on foot."

Service Areas and Bus Stop Access How To

Created Service Areas for Marta Bus Stops within a half-mile buffer of the Census Block Group Study Area Polygons. Both a 5-minute (1/4 mile) and a 10-minute (1/2 mile) walking distance Bus Stop Service Areas were created. (Pelle Thesis Data 20231031.gdb)

Exported 5-minute features to new dataset: ServiceArea Polygons 5mins

Dissolved 5 and 10 minute features to new dataset: ServiceArea_Polygons_510mins

Intersected the following two datasets:

ServiceArea_Polygons_5mins

USA_Census_BlockGroups_EsriDm_ZonesAll

New dataset: CensusIntServiceArea_Polygons_5mins

Intersected the following two datasets:

ServiceArea Polygons 510mins

USA Census BlockGroups EsriDm ZonesAll

New dataset: CensusIntServiceArea_Polygons_510mins

Added FIPS_FAC_ID to both of the new Intersected datasets, calculated to: !FIPS! + " - " + !FacilityID!

Dissolved both Intersected datasets based on FIPS_FAC_ID, returning both First_FIPS and First_FacilityID

New datasets:

- CensusIntDisServiceArea_Polygons_5mins
- CensusIntDisServiceArea_Polygons_510mins

Created Summary Tables for both new dissolved datasets based on First_FIPS

New Tables:

- CensusIntDisServiceArea_Polygons_5mins_Statistics
- CensusIntDisServiceArea_Polygons_510mins_Statistics

New fields were added to:

USA Census BlockGroups EsriDm ZonesAll

Fields:

- BUS_STOP_5MIN (Long)
 - o Results contain the total count of bus stops within a 5-minute walk of the Block Group
- BUS_STOP_5M_AC (Double)
- BUS_STOP_510MIN (Long)
 - Results contain the total count of bus stops within a 10-minute walk of the Block Group
- BUS_STOP_510M_AC (Double)
- ACRES (Double)

Summary tables (CensusIntDisServiceArea_Polygons_5mins_Statistics) were each joined back to USA_Census_BlockGroups_EsriDm_ZonesAll

Based on First_FIPS to FIPS

Calculated BUS_STOP_5MIN (Long) with FREQUENCY field number

Unjoined tables and rejoined to other summary table (CensusIntDisServiceArea_Polygons_510mins_Statistics)

Based on First_FIPS to FIPS

Calculated BUS_STOP_510MIN (Long) with FREQUENCY field number

Crash Counts How To

Buffer USA_Census_BlockGroups_EsriDm_ZonesAll by 250ft

Run Summarize within too and get counts of number of accidents per block group, join results back to main dataset and populate the following fields:

- TOT_CRASH_250FT (Long)
 - o Results contain the total count of crashes within 250ft of the Block Group
- TOT_CRASH_250FT_AC (Double)