

Public Transit Stop Density



Tags

census tract, public transit stop

Summary

This dataset lists the number of public transit stops per United States census tract based on data from the National Transit Map (NTM). Each observation represents the count and density (per capita and square mile) of transit stops within a census tract, as voluntarily reported to NTM between 2016 and 2018 by one of 270 regional transit agencies choosing to participate.

Description

This dataset lists the number of public transit stops per United States census tract based on data from the National Transit Map (NTM). Each observation represents the count and density (per capita and square mile) of transit stops within a census tract, as voluntarily reported to NTM between 2016 and 2018 by one of 270 regional transit agencies choosing to participate. (A list of agencies participating as of September 2019 is available as an appendix to the documentation.)

Credits

Principal Investigator(s): Philippa Clarke, University of Michigan. Institute for Social Research; Robert Melendez, University of Michigan. Institute for Social Research.

Funding Sources: United States Department of Health and Human Services. National Institutes of Health. National Institute on Aging (RF1-AG-057540); United States Department of Health and Human Services. Administration for Community Living. National Institute on Disability, Independent Living, and Rehabilitation Research (90RTHF0001)

<https://www.openicpsr.org/openicpsr/project/111109/version/V1/view;jsessionid=8ACD061460DB7605CD63ED4EECF8EE43>

Clarke, Philippa, and Melendez, Robert. National Neighborhood Data Archive (NaNDA): Public Transit Stops by Census Tract, United States, 2016-2018. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], 2019-10-09. <https://doi.org/10.3886/E111109V1>

Use limitations

There are no access and use limitations for this item.

Extent

West -179.231086 **East** 179.859681
North 71.441059 **South** 17.831509

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

Topics and Keywords

THEMES OR CATEGORIES OF THE RESOURCE society, transportation
* CONTENT TYPE Downloadable Data
EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

Citation

TITLE Public Transit Stop Density
PUBLICATION DATE 2019-10-09
PRESENTATION FORMATS * digital map

Citation Contacts

RESPONSIBLE PARTY
INDIVIDUAL'S NAME Philippa Clarke and Robert Melendez
ORGANIZATION'S NAME University of Michigan. Institute for Social Research
CONTACT'S ROLE originator

Resource Details

DATASET LANGUAGES * English (UNITED STATES)
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format
STATUS completed
SPATIAL REPRESENTATION TYPE * vector
* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.8.0.12790
CREDITS

Principal Investigator(s): Philippa Clarke, University of Michigan. Institute for Social Research; Robert Melendez, University of Michigan. Institute for Social Research.

Funding Sources: United States Department of Health and Human Services. National Institutes of Health. National Institute on Aging (RF1-AG-057540); United States Department of Health and Human Services. Administration for Community Living. National Institute on Disability, Independent Living, and Rehabilitation Research (90RTHF0001)

ArcGIS ITEM PROPERTIES

* NAME census_tract_nanda_2018_transit_stops
* ACCESS PROTOCOL Local Area Network

Extents

EXTENT
DESCRIPTION

Based on data from the National Transit Map (NTM). Each observation represents the count and density (per capita and square mile) of transit stops within a census tract, as voluntarily reported to NTM between 2016 and 2018 by one of 270 regional transit agencies choosing to participate.

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching
* WEST LONGITUDE -179.231086
* EAST LONGITUDE 179.859681
* NORTH LATITUDE 71.441059

* SOUTH LATITUDE 17.831509
* EXTENT CONTAINS THE RESOURCE Yes
TEMPORAL EXTENT
BEGINNING DATE 2016
ENDING DATE 2018

EXTENT IN THE ITEM'S COORDINATE SYSTEM
* WEST LONGITUDE -19951913.227845
* EAST LONGITUDE 20021888.103161
* SOUTH LATITUDE 2017836.357429
* NORTH LATITUDE 11554793.571192
* EXTENT CONTAINS THE RESOURCE Yes

Resource Maintenance

RESOURCE MAINTENANCE
UPDATE FREQUENCY unknown

Spatial Reference

ARCGIS COORDINATE SYSTEM
* TYPE Projected
* GEOGRAPHIC COORDINATE REFERENCE GCS_WGS_1984
* PROJECTION WGS_1984_Web_Mercator_Auxiliary_Sphere
* COORDINATE REFERENCE DETAILS
PROJECTED COORDINATE SYSTEM
WELL-KNOWN IDENTIFIER 102100
X ORIGIN -22041257.952553775
Y ORIGIN -30241100
XY SCALE 144148035.48642668
Z ORIGIN -100000
Z SCALE 10000
M ORIGIN -1000000
M SCALE 10000
XY TOLERANCE 0.001
Z TOLERANCE 0.001
M TOLERANCE 0.001
HIGH PRECISION true
LATEST WELL-KNOWN IDENTIFIER 3857
WELL-KNOWN TEXT PROJCS["WGS_1984_Web_Mercator_Auxiliary_Sphere",GEOGCS["GCS_WGS_1984",DATUM["D_WGS_1984",SPHEROID
["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION
["Mercator_Auxiliary_Sphere"],PARAMETER["False_Easting",0.0],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian",0.0],PARAMETER
["Standard_Parallel_1",0.0],PARAMETER["Auxiliary_Sphere_Type",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",3857]]
REFERENCE SYSTEM IDENTIFIER
* VALUE 3857
* CODESPACE EPSG
* VERSION 8.8(9.3.1.2)

Spatial Data Properties

VECTOR
* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only
GEOMETRIC OBJECTS
FEATURE CLASS NAME census_tract_nanda_2018_transit_stops
* OBJECT TYPE composite
* OBJECT COUNT 74002
ARCGIS FEATURE CLASS PROPERTIES
FEATURE CLASS NAME census_tract_nanda_2018_transit_stops
* FEATURE TYPE Simple
* GEOMETRY TYPE Polygon
* HAS TOPOLOGY FALSE
* FEATURE COUNT 74002
* SPATIAL INDEX TRUE
* LINEAR REFERENCING FALSE

Distribution

DISTRIBUTION FORMAT
* NAME File Geodatabase Feature Class

Fields

DETAILS FOR OBJECT census_tract_nanda_2018_transit_stops
* TYPE Feature Class
* ROW COUNT 74002
FIELD OBJECTID
ALIAS Object ID
* DATA TYPE OID
* WIDTH 4
* PRECISION 0
* SCALE 0
* FIELD DESCRIPTION
Internal feature number.
* DESCRIPTION SOURCE
Esri
* DESCRIPTION OF VALUES
Sequential unique whole numbers that are automatically generated.
FIELD Shape
* ALIAS Shape
* DATA TYPE Geometry
* WIDTH 0
* PRECISION 0
* SCALE 0
* FIELD DESCRIPTION
Feature geometry.
* DESCRIPTION SOURCE
Esri
* DESCRIPTION OF VALUES
Coordinates defining the features.
FIELD GEOID10
* ALIAS Geo ID
* DATA TYPE String
* WIDTH 11

* PRECISION 0
* SCALE 0

FIELD NAMELSAD10
* ALIAS LSAD Name
* DATA TYPE String
* WIDTH 20
* PRECISION 0
* SCALE 0

FIELD ALAND10
* ALIAS Land Area
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0

FIELD AWATER10
* ALIAS Water Area
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0

FIELD INTPTLAT10
* ALIAS Latitude
* DATA TYPE String
* WIDTH 11
* PRECISION 0
* SCALE 0

FIELD INTPTLON10
* ALIAS Longitude
* DATA TYPE String
* WIDTH 12
* PRECISION 0
* SCALE 0

FIELD census_tract_area
* ALIAS Census Tract Area (sq mi)
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0

FIELD count_ntm_stops
* ALIAS Number of Transit Stops
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0

FIELD tot_pop_2010
* ALIAS Population (2010)
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0

FIELD stops_per_capita
* ALIAS Transit Stops per 1000 People
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0

FIELD stops_per_sqmile
* ALIAS Transit Stops per Square Mile
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0

FIELD Shape_Length
* ALIAS Shape_Length
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0
* FIELD DESCRIPTION
Length of feature in internal units.
* DESCRIPTION SOURCE
Esri
* DESCRIPTION OF VALUES
Positive real numbers that are automatically generated.

FIELD Shape_Area
* ALIAS Shape_Area
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0
* FIELD DESCRIPTION
Area of feature in internal units squared.
* DESCRIPTION SOURCE
Esri
* DESCRIPTION OF VALUES
Positive real numbers that are automatically generated.

Metadata Details

* METADATA LANGUAGE English (UNITED STATES)
METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format
SCOPE OF THE DATA DESCRIBED BY THE METADATA *dataset
SCOPE NAME *dataset
* LAST UPDATE 2021-10-12
ARCGIS METADATA PROPERTIES
METADATA FORMAT ArcGIS 1.0
METADATA STYLE FGDC CSDGM Metadata
STANDARD OR PROFILE USED TO EDIT METADATA FGDC
CREATED IN ARCGIS FOR THE ITEM 2021-10-11
LAST MODIFIED IN ARCGIS FOR THE ITEM 2021-10-12
AUTOMATIC UPDATES
HAVE BEEN PERFORMED Yes
LAST UPDATE 2021-10-12

Metadata Contacts

METADATA CONTACT
INDIVIDUAL'S NAME Philippa Clarke and Robert Melendez
ORGANIZATION'S NAME University of Michigan. Institute for Social Research
CONTACT'S ROLE originator

Metadata Maintenance

MAINTENANCE
UPDATE FREQUENCY unknown