

Normalized Land Use Type - US Census Block Scale , June 2019 - NC

Department of Transportation

Geodatabase Feature Class



Tags

land use, census block, UrbanFootprint, Transportation, NCDOT, Environment, North Carolina, ATLAS

Summary

This dataset was originally provided in June 2019 as part of the Project ATLAS initiative at NCDOT to support project delivery in the development phase. Information contained in this dataset provides a supporting platform for decision making on NCDOT projects via the ATLAS Tools.

Description

This dataset is a statewide polygon layer that provides a broad-scale description of the existing built environment (land use) at the US Census Block geography level. The description provided for each geography is a normalized classification of land use that is intended to be representative of the existing built environment, on average, within that geography. Land use types contained in this dataset have been generated by the UrbanFootprint data processing pipeline and made available for NCDOT users by license agreement between UrbanFootprint and NCDOT - EAU.

This dataset does not replace any technical report work for future projects and may not be used as a replacement for site visits / field surveys by licensed professionals and hence should be used only as a supporting platform for decision making. Use of this dataset for project scoping or screening is merely pre-decisional.

Credits

Land use types contained in this dataset are produced by UrbanFootprint and made available for NCDOT users by license agreement between UrbanFootprint and NCDOT - EAU. Support and maintenance of the enterprise spatial database where this data resides is handled by NCDOT's Transportation GIS Unit.

Use limitations

The North Carolina Department of Transportation shall not be held liable for any errors in this data. This includes errors of omission, commission, errors concerning the content of the data,

and relative and positional accuracy of the data. This data cannot be construed to be a legal document. Primary sources from which this data was compiled must be consulted for verification of information contained in this data.

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Extent

West -84.457373

East -75.347344

North 36.800232

South 33.640992

Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:625,000

Topics and Keywords

Themes or categories of the resource Society, Transportation, Environment

Content type Downloadable Data

Theme keywords land use, census block, UrbanFootprint, Transportation, NCDOT, Environment, North Carolina, ATLAS

Thesaurus

Title User

Creation date 2019-06-17 00:00:00

Publication date 2019-12-18 00:00:00

Place keywords North Carolina

Thesaurus

Title User

Creation date 2019-06-17 00:00:00

Publication date 2019-12-18 00:00:00

Citation

Title Normalized Land Use Type - US Census Block Scale , June 2019 - NC Department of Transportation

Alternate titles UF Block Canvas - June 2019

Creation date 2019-06-17 00:00:00

Publication date 2019-12-18 00:00:00

Presentation formats digital map

FGDC geospatial presentation format vector digital data

Citation Contacts

Responsible party - originator

Organization's name UrbanFootprint

Individual's name UrbanFootprint

Contact information

Address

Type physical

Delivery point 2095 Rose St

City Berkeley

Administrative area CA

Postal code 94708

Country US

e-mail address info@urbanfootprint.com

Hours of service

9:00am – 5:00pm Monday - Friday

Contact instructions

Please send an email with any issues to info@urbanfootprint.com.

Responsible party - resource provider

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

Address

Type physical

Delivery point 4101 Capital Boulevard

City Raleigh

Administrative area NC

Postal code 27604

Country US

e-mail address ATLAS@ncdot.gov

Hours of service

9:00am – 5:00pm Monday - Friday

Contact instructions

Please send an email with any issues, questions or comments regarding the ATLAS Data Search Tool, ATLAS Screening Tool or ATLAS Workbench. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

Responsible party - point of contact

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

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Resource Details

Dataset languages English (UNITED STATES)

Dataset character set utf8 - 8 bit UCS Transfer Format

Status completed

Spatial representation type vector

Supplemental information

Any questions about this dataset, including suitability of its use in particular applications, should be directed to NCDOT - EAU. Users are also encouraged to provide feedback and suggestions for improving the dataset.

Processing environment Version 6.2 (Build 9200) ; Esri ArcGIS 10.8.1.14362

Credits

Land use types contained in this dataset are produced by UrbanFootprint and made available for NCDOT users by license agreement between UrbanFootprint and NCDOT - EAU.
Support and maintenance of the enterprise spatial database where this data resides is handled by NCDIT's Transportation GIS Unit.

Extents

Extent

Description

Data collection is complete.

Geographic extent

Bounding rectangle

West longitude -84.4574

East longitude -75.3473

South latitude 33.641

North latitude 36.7996

Extent contains the resource Yes

Extent

Geographic extent

Bounding rectangle

Extent type Extent used for searching

West longitude -84.457373

East longitude -75.347344

North latitude 36.800232

South latitude 33.640992

Extent contains the resource Yes

Extent in the item's coordinate system

westBL 400116.887853

eastBL 3070216.296331

southBL 2698.609299

northBL 1110256.550347

exTypeCode Yes

Resource Points of Contact

Point of contact - point of contact

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

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Resource Maintenance

Resource maintenance

Update frequency as needed

Scope of the updates dataset

Other maintenance requirements

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Support and maintenance of the enterprise spatial database where this data resides is handled by NCDIT's Transportation GIS Unit.

Maintenance contact - originator

Organization's name UrbanFootprint

Individual's name UrbanFootprint

Contact information

Address

Type physical

Delivery point 2095 Rose St

City Berkeley

Administrative area CA

Postal code 94708

Country US

Resource Constraints

Constraints

Limitations of use

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Legal constraints

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Security constraints

Classification unclassified

Classification system None

Limitations of use

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Land use types contained in this dataset have been generated by the UrbanFootprint data processing pipeline. Although the data has been reviewed for accuracy and completeness and approved for release by UrbanFootprint, no warranty expressed or implied is made regarding the correctness, display or utility of the data on any other system or for general or scientific purposes, nor shall the act of distribution constitute any such warranty. Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected.

Spatial Reference

ArcGIS coordinate system

Type Projected

Geographic coordinate reference GCS_North_American_1983

Projection NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet

Coordinate reference details

ProjectedCoordinateSystem

WKID 102719

XOrigin -121841900
YOrigin -93659000
XYScale 3048.0060960121928
ZOrigin 0
ZScale 1
MOrigin 0
MScale 1
XYTolerance 0.0032808333333333331
ZTolerance 0.001
MTolerance 0.001
HighPrecision true
LatestWKID 2264
WKT
PROJCS["NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet",GEOGCS["GCS_North_American_1983",DATUM["North_American_Datum_1983",SPHEROID["WGS_84",6378137,0],UNIT["Meter",1],AUTHORITY["EPSG",3147]],PRIMORDIAL["Greenwich",0],PARAMETER["Standard_Parallel_1",34.33333333333334],PARAMETER["Standard_Parallel_2",34.33333333333334],PARAMETER["False_Easting",500000],PARAMETER["False_Northing",500000],PARAMETER["Scale_Factor",0.625],AUTHORITY["EPSG",3147]],UNIT["Foot",0.3048],AUTHORITY["EPSG",3147]]

Reference system identifier

Value 2264
Codespace EPSG
Version 6.12(9.0.0)

Spatial Data Properties

Vector

Level of topology for this dataset geometry only
Geometric objects
Feature class name GdbGisuPubC.ATLAS.NormalizedLandUseUF
Object type composite
Object count 290101

ArcGIS Feature Class Properties

Feature class name GdbGisuPubC.ATLAS.NormalizedLandUseUF
Feature type Simple
Geometry type Polygon
Has topology FALSE
Feature count 290101
Spatial index TRUE
Linear referencing FALSE

Data Quality

Scope of quality information

Resource level dataset

Data quality report - Quantitative attribute accuracy

Data quality measure reference

Measure description

Geometry checks were conducted using ESRI's Data Reviewer tool.

Conformance test results

Test passed Yes

Result explanation

Pass

Product specification

Title NCDOT Geospatial Data Specifications

Creation date 2019-06-17 00:00:00

Publication date 2019-12-18 00:00:00

Lineage

Lineage statement

Records in this dataset have been generated by UrbanFootprint's proprietary data processing pipeline, which involves cleaning, compiling, and processing geographic and tabular data from a variety of sources, including: the 2010 US Decennial Census; the 2012 American Community Survey (ACS) 5-year Summary data; the 2010 Longitudinal Employer-Household Dynamics (LEHD) data; US Environmental Protection Agency's Smart Location Database; and US Census Bureau's Area Landmarks dataset.

Process step

Description

Polygon data was reviewed in ESRI's Data Reviewer tool to verify geometry.

Process contact - processor

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

Address

Type physical

Delivery point 4101 Capital Boulevard

City Raleigh

Administrative area NC

Postal code 27604

Country US

e-mail address ATLAS@ncdot.gov

Hours of service

9:00am – 5:00pm Monday - Friday

Contact instructions

Please send an email with any issues, questions or comments regarding the ATLAS Data Search Tool, ATLAS Screening Tool or ATLAS Workbench. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

Process step

Description

Geodatabase was forwarded on to the GIS Unit for publishing as part of data for project ATLAS.

Process contact - processor

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

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Distribution

Distributor

Contact information - distributor

Organization's name North Carolina Department of Transportation - EAU Mitigation and

Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

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Distribution format

Version 10.5

Name SDE Feature Class

Fields

Details for object GdbGisuPubC.ATLAS.NormalizedLandUseUF

Type Feature Class

Row count 290101

Definition

Normalized Land Use Type

Definition source

NCDOT

Field OBJECTID

Alias OBJECTID

Data type OID

Width 4

Precision 10

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 4

Precision 0

Scale 0

Field description

Feature geometry.

Description source

Esri

Description of values

Coordinates defining the features.

Field id

Alias id

Data type String

Width 80

Precision 0

Scale 0

Field description

Unique, UrbanFootprint-generated id

Description source

UrbanFootprint

Field BuiltForm

Alias BuiltForm

Data type String

Width 254

Precision 0

Scale 0

Field description

UrbanFootprint Building/Place types

Description source

UrbanFootprint

Field GeometryKey

Alias GeometryKey

Data type String

Width 254

Precision 0

Scale 0

Field description

Geometry key from UrbanFootprint

Description source

UrbanFootprint

Field SHAPE.STArea()

Alias SHAPE.STArea()

Data type Double

Width 0

Precision 0

Scale 0

Field SHAPE.STLength()

Alias SHAPE.STLength()

Data type Double

Width 0

Precision 0

Scale 0

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 2026-10-13

ArcGIS metadata properties

Metadata format ArcGIS 1.0

Standard or profile used to edit metadata ISO19139

Metadata style ISO 19139 Metadata Implementation Specification

Created in ArcGIS for the item 2026-10-13 12:35:53

Last modified in ArcGIS for the item 2026-10-13 12:11:53

Automatic updates

Have been performed Yes

Last update 2026-10-13 12:11:42

Metadata Contacts

Metadata contact - point of contact

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

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Metadata Maintenance

Maintenance

Update frequency as needed

Other maintenance requirements

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Constraints

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Classification system None

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Thumbnail and Enclosures

Thumbnail

Thumbnail type

Image file