

Metadata format: ISO 19139**LIRR Routes, New York NY, May 2016****ISO 19139 metadata content**

- [Resource Identification Information](#)
- [Spatial Representation Information](#)
- [Reference System Information](#)
- [Data Quality Information](#)
- [Distribution Information](#)
- [Metadata Information](#)

Resource Identification Information

CITATION

TITLE LIRR Routes, New York NY, May 2016

PUBLICATION DATE 2016-05-19

EDITION may2016

PRESENTATION FORMAT mapDigital

SERIES

NAME NYC Mass Transit Spatial Layers

RESPONSIBLE PARTY - POINTOFCONTACT

ORGANIZATION'S NAME Newman Library, Baruch CUNY

CONTACT'S POSITION Geospatial Data Librarian

CONTACT INFORMATION

ADDRESS

DELIVERY POINT Newman Library, Baruch CUNY

DELIVERY POINT 151 E 25th St Box H-0520

CITY New York

ADMINISTRATIVE AREA NY

POSTAL CODE 10010

COUNTRY UNITED STATES

THEMES OR CATEGORIES OF THE RESOURCE transportation, structure

PLACE KEYWORDS

KEYWORDS City of New York, 2395220, Borough of Brooklyn, 978759, Borough of Manhattan, 979190, Borough of Queens, 979404, Long Island, 977426

THESAURUS

TITLE Geographic Names Information Service (GNIS)

ALTERNATE TITLES ANSI INCITTS 446:2008

PUBLICATION DATE 2008-01-01

PLACE KEYWORDS

KEYWORDS Kings County, 36047, Nassau County, 36059 New York County, 36061, Queens County, 36081, Suffolk County, 36103

THESAURUS

TITLE US Census ANSI/FIPS

ALTERNATE TITLES ANSI INCITTS 38:2009 (Formerly FIPS 5-2) & ANSI INCITTS 31:2009 (Formerly FIPS 6-4)

PUBLICATION DATE 2009-01-01

TEMPORAL KEYWORDS

KEYWORDS 2016

THEME KEYWORDS

KEYWORDS Railroad, Local transit, Commuting, New York City Transit Authority, Transportation, Long Island Rail Road

THESAURUS

TITLE Library of Congress Subject Headings (LCSH)

PUBLICATION DATE 2015-02-17

DESCRIPTIVE KEYWORDS

KEYWORDS Downloadable Data

THESAURUS ArcIMS Metadata Service Content Types

ABSTRACT

This line layer was created from the GTFS data feeds from the Metropolitan Transportation Authority (MTA) to represent the MTA Long Island Rail Road (LIRR) routes. A python script was written to take the data files as input and plot and save them as a spatial layer in the local state plane coordinate reference system. Lines in this layer represent individual train routes that follow physical track locations; they were generalized from the GTFS format where lines depicted individual train services. The unique ID is route_id, a field created by the MTA. This layer was created as part of the NYC Mass Transit Spatial Layers series, and is updated biannually to account for changes in the transit system.

PURPOSE

This dataset is intended for researchers, policy makers, students, and educators for basic geographic analysis and mapping purposes. It was created by the GIS Lab at the Newman Library at Baruch College CUNY as part of the NYC Mass Transit Spatial Layers series, so that members of the public could have access to well-documented and readily-usable GIS layers of NYC mass transit features.

DATASET LANGUAGE English

DATASET CHARACTER SET utf8

STATUS completed

MAINTENANCE

UPDATE FREQUENCY biannually

RESOURCE CONSTRAINTS

CONSTRAINTS

LIMITATIONS OF USE

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RESOURCE CONSTRAINTS

LEGAL CONSTRAINTS

ACCESS CONSTRAINTS licenseUnrestricted

USE CONSTRAINTS license

SPATIAL REPRESENTATION TYPE vector

PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.2.0.3348

EXTENT

EXTENT DESCRIPTION

City of New York

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT CONTAINS THE RESOURCE true

WEST LONGITUDE -73.993104

EAST LONGITUDE -71.952701

NORTH LATITUDE 41.111218

SOUTH LATITUDE 40.572712

TEMPORAL EXTENT

BEGINNING DATE 2016-05-04 00:00:00

ENDING DATE

INDETERMINATE TIME unknown

POINT OF CONTACT - POINTOFCONTACT

ORGANIZATION'S NAME Newman Library, Baruch CUNY

CONTACT'S POSITION Geospatial Data Librarian

CONTACT INFORMATION

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DELIVERY POINT 151 E 25th St Box H-0520

CITY New York

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POSTAL CODE 10010

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[Back to Top](#)

Spatial Representation - Vector

LEVEL OF TOPOLOGY FOR THIS DATASET geometryOnly

GEOMETRIC OBJECTS

OBJECT TYPE composite

OBJECT COUNT 12

[Back to Top](#)

Reference System Information

REFERENCE SYSTEM IDENTIFIER
VALUE 2263CODESPACE EPSG
VERSION 10.2[Back to Top](#)

Data Quality Information

SCOPE OF QUALITY INFORMATION
RESOURCE LEVEL dataset

LINEAGE

LINEAGE STATEMENT

This line layer was created using the data feeds from the Metropolitan Transportation Authority (MTA). The MTA provides text files that contain route information in a General Transit Feed Specification (GTFS) format, and are geographically referenced so they are able to be plotted. Python scripts were written to take the text files as input and plot and save them as a spatial layer. The text file used for plotting is 'shapes.txt' and provides geographically referenced data for the routes in the form of points. The first script plots these points and creates a layer file, which is then converted to a polyline layer and saved as a shapefile. The second script joins the new line shapefile with two text files, 'trips.txt' and 'routes.txt', which contain additional relevant information provided by the MTA.

After the routes were plotted from their native GTFS format, the lines represented individual train services for different times and days of the week. Additional processing was done to simplify these lines; the dissolve tool was used to create lines that represented an individual train route over its entire travel distance. Attribute columns that were blank, redundant, or that represented information that was only relevant to specific services and not to individual routes were removed. The final layer was reprojected from NAD 83 to NY State Plane Long Island in feet. The unique ID is route_id, a field created by the MTA. This layer was created as part of the NYC Mass Transit Spatial Layers series, and is updated biannually to account for changes in the transit system.

SOURCE DATA

LEVEL OF THE SOURCE DATA Metropolitan Transportation Authority

SOURCE CITATION

TITLE MTA NYC Transit Shapes, Trips and Routes Files

PUBLICATION DATE 2016-05-04

SOURCE DATA

LEVEL OF THE SOURCE DATA US Census 2014 TIGER Line Shapefiles

SOURCE CITATION

TITLE US Census 2014 TIGER Line Shapefiles

PUBLICATION DATE 2014-08-19

[Back to Top](#)

Distribution Information

DISTRIBUTOR

DISTRIBUTOR INFORMATION - POINTOFCONTACT

ORGANIZATION'S NAME Newman Library, Baruch CUNY

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FORMAT

NAME Shapefile

VERSION

NIL REASON missing

TRANSFER OPTIONS

TRANSFER SIZE 0.254

[Back to Top](#)

Metadata Information

LAST UPDATE 2016-05-26

MAINTENANCE

UPDATE FREQUENCY biannually

MAINTENANCE NOTES This metadata record was updated by Janine Billadello in May 2016.

METADATA CONSTRAINTS

CONSTRAINTS

LIMITATIONS OF USE

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METADATA CONSTRAINTS

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USE CONSTRAINTS license

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SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset

METADATA LANGUAGE English
METADATA CHARACTER SET utf8

NAME OF THE METADATA STANDARD USED NAP - Metadata
VERSION OF THE METADATA STANDARD 1.2

METADATA IDENTIFIER 622FB901-33E2-4F98-BB5B-D5FBE14B4063
URI OF THE DATA DESCRIBED BY THE METADATA
<https://www.baruch.cuny.edu/confluence/display/geoportal/NYC+Mass+Transit+Spatial+Layers>

[Back to Top](#)