LIRR Routes, New York NY, May 2019

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 2019

PUBLICATION DATE 2019-05-31

EDITION may2019
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 structure, transportation

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
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, process them 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.

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.

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RESOURCE CONSTRAINTS

LEGAL CONSTRAINTS

ACCESS CONSTRAINTS licenseUnrestricted

USE CONSTRAINTS license

SPATIAL REPRESENTATION TYPE vector

PROCESSING ENVIRONMENT Version 6.2 (Build 9200); Esri ArcGIS 10.4.1.5686

EXTENT

EXTENT DESCRIPTION

New York Metropolitan Area

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 2019-05-20 00:00:00
ENDING DATE
INDETERMINATE TIME unknown

EXTENT

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

POINT OF CONTACT - POINTOFCONTACT

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CONTACT'S POSITION Geospatial Data Librarian

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DELIVERY POINT 151 E 25th St Box H-0520
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CITY New York
ADMINISTRATIVE AREA NY
POSTAL CODE 10010
COUNTRY UNITED STATES
Spatial Representation - Vector

LEVEL OF TOPOLOGY FOR THIS DATASET geometryOnly
GEOMETRIC OBJECTS
  OBJECT TYPE composite
  OBJECT COUNT 12

Reference System Information

REFERENCE SYSTEM IDENTIFIER
  VALUE 2263
  CODESPACE EPSG
  VERSION 10.2

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, process them and save them as a spatial layer. The text file used for line geometry creation is 'shapes.txt' and it provides geographically referenced data for the routes in the form of points. The script creates geometry object out of the individual points provided for the route, and then creates a line geometry object out of the points grouped by the common id of the segment that they belong to. Then it joins created geometry object with data from text files, 'trips.txt' and 'routes.txt', which contain additional relevant information provided by the MTA. Based on common attribute, individual rail services for different times and days of the week, are dissolved to create lines that represented an individual route. 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 and saved in a shapefile format. 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 2019-05-20
Distribution Information

**Distributor**

**Distributor Information - PointOfContact**
- **Organization's Name**: Newman Library, Baruch CUNY
- **Contact's Position**: Geospatial Data Librarian

**Contact Information**
- **Address**
  - **Delivery Point**: Newman Library, Baruch CUNY
  - **City**: New York
  - **Administrative Area**: NY
  - **Postal Code**: 10010
  - **Country**: United States

**Format**
- **Name**: Shapefile
- **Version**: NIL REASON missing

**Transfer Options**
- **Transfer Size**: 0.254

Metadata Information

**Last Update**: 2019-05-29

**Maintenance**
- **Update Frequency**: biannually

**Maintenance Notes** This metadata record was updated by Frank Donnelly in May 2019.

**Metadata Constraints**

**Constraints**
- **Limitations of Use**
  - Metadata for this layer is licensed under a Creative Commons Attribution-NonCommercial license CC BY-NC http://creativecommons.org/licenses/by-nc/4.0/. You are free to share and to adapt the metadata as long as you cite the source and do not use it for commercial purposes.

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COUNTRY  UNITED STATES

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  2E148E40-D089-4462-84DA-9C0B5030A6A7
URI OF THE DATA DESCRIBED BY THE METADATA
https://www.baruch.cuny.edu/confluence/display/geoportal/NYC+Mass+Transit+Spatial+Layers

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