This data set is the property of the State of New Hampshire and is available for public use under the State’s Right-to-Know laws. The data is under continual review and is not guaranteed to be free of errors or omissions. It represents the efforts of the NH Department of Transportation to deliver accurate map metadata. No claim is made as to the validity or reliability of to any implied used of these data.
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The purpose of this guide is to give specific information about the maps in the NH Department of Transportation GIS Data Catalog.

The GIS section (Planning and Community Assistance Bureau) manages the Data Catalog web site and production of standard printed and online maps.

In 2018, a reorganization of the Data Catalog was completed with new standards adopted for web site content and layout, data links and standard maps, as well as a process for updates.

In this guide, each map will have its own page, describing details along with a picture and metadata used to create the map.

For GIS Staff, it can be used yearly as a guide to update maps as well as a reference point for custom map requests, where combinations of similar layers may be required.

Credits

Project Admin: Glenn Davison, Supervisor of System Planning, Civil Engineer VI,
Project Lead: Lisa Chamberlain, GIS Analyst, Cartographer, Word and Contribute Editor
Contributors: Jim Irwin, GIS Manager, Civil Engineer V
Joseph Blair, GIS Civil Engineer IV, HPMS Coordinator
Casey Shingleton, GIS Civil Engineer II
Ali Skinner, GIS Civil Engineer III
The Bureau of Planning GIS section met into the spring of 2018 to review various map attributes in order to standardize map production going forward for the DOT.

The group agreed on the following attributes and got agreement from AMPS Office.

<table>
<thead>
<tr>
<th>Map Attribute</th>
<th>Location and details</th>
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<tbody>
<tr>
<td>Box (Line)</td>
<td>To delineate where Title, N Arrow and DOT logo are housed</td>
</tr>
<tr>
<td>Map Title</td>
<td>Aerial, Font34, Bold Upper Left Corner</td>
</tr>
<tr>
<td>Optional 2\textsuperscript{nd} line Title</td>
<td>Aerial, Font 26, Regular, Under Map Title</td>
</tr>
<tr>
<td>Legend</td>
<td>Under Title section</td>
</tr>
<tr>
<td>North Arrow</td>
<td>ESRI 5 North Arrow under line under DOT logo</td>
</tr>
<tr>
<td>DOT Logo</td>
<td>Green DOT Logo upper right corner, centered</td>
</tr>
<tr>
<td>Map Filename; Date</td>
<td>Lower left corner</td>
</tr>
<tr>
<td>Scale Bar</td>
<td>Alternating Scale Bar 1, Font 5, Miles Above centered</td>
</tr>
<tr>
<td>Boundary Names</td>
<td>Canada, Vermont, Maine, Massachusetts used</td>
</tr>
<tr>
<td>Map Scale</td>
<td>1:795:000</td>
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</tbody>
</table>
ROADS BY FUNCTION

ROUTE SYSTEM

This map displays the major routes by Type: Turnpikes, Interstates, U.S. Routes, State Routes, and Non-Numbered State Routes.

Filenames: route-system .PDF .MXD .PNG
Zoom To: State Display Map Scale: 1:795,000 Page setup: 11x17
Source Data: N46USER.HPMS_2018_ROADS
Other GIS Layers: Town Names Boundary Names
ROUTE SYSTEM-LEGISLATIVE CLASS MILES

This map displays roads by Legislative Classes (1) Primary Highways, (2) Secondary Highways, and (3) Recreation Roads.

This map should match the Roads and Highways Facts & Figures Report.
This map displays Federal Aid Eligible roads broken out by Tiers.
FUNCTIONAL SYSTEM

This map displays the Function System classification and Urban 2010 Boundaries.

Filenames: functional-system .PDF .MXD .PNG

Zoom To: State Display     Map Scale: 1:795,000     Page setup: 11x17

Source Data: N46USER.HPMS_2018_ROADS

Other GIS Layers:
Town Names
Boundary Names
This map displays roads designated NHS with classifications.

**Legend**
- NHS Roads
- NHS Codes and Descriptions
  - 1 Primary
  - 2 Major Airport
  - 3 Major Port Authority
  - 4 Major Inner City Bus Terminal
  - 5 Major Public Transportation Terminal
  - Non-NHS State Roads
  - Urban 2010

**Filenames:** nhs .PDF .MXD .PNG

**Zoom To:** State Display  **Map Scale:** 1:795,000  **Page setup:** 11x17

**Source Data:** N46USER.HPMS_2018_ROADS

**Other GIS Layers:**
- Town Names
- Boundary Names
This map displays the NHS system by Route type.

Filenames: nhs-miles .PDF .MXD .PNG

Zoom To: State Display Map Scale: 1:795,000 Page setup: 11x17

Source Data: N46USER.HPMS_2018_ROADS

Other GIS Layers:
- Town Names
- Boundary Names
TIERS 1 AND 2 (WITH MILEAGES)

This map displays Tier 1 and 2 State roads.

Filenames: tiers-1-2 .PDF .MXD .PNG

Zoom To: State Display  Map Scale: 1:795,000  Page setup: 11x17

Source Data: N46USER.HPMS_2018_ROADS

Other GIS Layers:
Town Names
Boundary Names
This map displays Tier 3 and 4 State roads.

Filenames: tiers-3-4 .PDF .MXD .PNG

Zoom To: State Display Map Scale: 1:795,000 Page setup: 11x17

Source Data: N46USER.HPMS_2018_ROADS

Other GIS Layers:
- Town Names
- Boundary Names
ROADS BY CONDITION (GACIT)

STATE RED LIST BRIDGES ON TIERS 1 AND 2

This map displays State Red List Bridges on Tiers 1 and 2. Odd years used for GACIT.

Filenames: state-redlist-bridges-t12 .PDF .MXD .PNG
Zoom To: State Display Map Scale: 1:795,000 Page setup: 11x17
Source Data: GISOWNER.ASSET_BRIDGE_POINTS GISOWNER.ASSET_2017_ROADS
Other GIS Layers:
Town Names Boundary Names
STATE RED LIST BRIDGES ON TIERS 3 AND 4

This map displays State Red List Bridges on Ties 3 and 4. Odd years used for GACIT.

Filenames: state-redlist-bridges-t34 .PDF .MXD .PNG

Zoom To: State Display Map Scale: 1:795,000 Page setup: 11x17

Source Data: GISOWNER.ASSET_BRIDGE_POINTS GISOWNER.ASSET_2017_ROADS

Other GIS Layers:
Town Names
Boundary Names
MUNICIPAL RED LIST BRIDGES

This map displays Municipal Red List Bridges. Odd years used for GACIT.

Filenames: muni-redlist-bridges .PDF .MXD .PNG

Zoom To: State Display Map Scale: 1:795,000 Page setup: 11x17

Source Data: GISONWER.ASSET_BRIDGE_POINTS GISONWER.ASSET_2017_ROADS

Other GIS Layers:
Town Names
Boundary Names
2016 PAVEMENT CONDITIONS

The Bureau of Materials & Research manages this data and creates map.

Filenames: pavement-condition .PDF .MXD .PNG

Zoom To: State Display       Map Scale: 1:795,000       Page setup: 11x17

Source Data: N:\GIS\Bureau\Data\Materials\Pavement\2016_Condition_RPC\2016_Condition_2017BMap_2017_03_31_RPC\2016_Condition_2017BMap_2017_03_31_RPC.shp; GISOWNER.ASSET_2017_ROADS

Other GIS Layers:
- Town Names
- Boundary Names
DOT OPERATIONS

BRIDGE MAINTENANCE CREWS

Legend
- Bridge Maintenance Facility
- Wash Area 1
- Wash Area 2
- Wash Area 3
- Wash Area 4
- Wash Area 5
- Wash Area 6
- Wash Area 7
- Wash Area 8
- Wash Area 9
- Wash Area 10
- Wash Area 11

Source Data: GISOWNER.FACILITIES_NHDOT

Other GIS Layers:
- Town Names
- Boundary Names

Filenames: bridge-maint-crews .PDF .MXD .PNG

Zoom To: State Display  Map Scale: 1:795,000  Page setup: 11x17
**DISTRICT 1 STATE ROADS**

**Highway District 1**

State Roads

**Filenames:** highway-district1-roads .PDF .MXD .PNG

**Zoom To:** District – District 1  
**Map Scale:** 1:407,000  
**Page setup:** 11x17

**Source Data:** N46USER.HPMS_2018_ROADS

**Other GIS Layers:**  
Town Names  
Boundary Names
DISTRICT 3 STATE ROADS

Filenames: highway-district3-roads .PDF .MXD .PNG

Zoom To: District-District3 Map Scale: 1:315,000 Page setup: 11x17

Source Data: N46USER.HPMS_2018_ROADS

Other GIS Layers:
Town Names
Boundary Names
Highway District 4
State Roads

Filenames: highway-district4-roads .PDF .MXD .PNG

Zoom To: District-District4 Map Scale: 1:280,000 Page setup: 11x17

Source Data: N46USER.HPMS_2018_ROADS

Other GIS Layers:
Town Names
Boundary Names
Highway District 5
State Roads

Filenames: highway-district5-roads .PDF .MXD .PNG

Zoom To: District-District5 Map Scale: 1:272,000 Page setup: 11x17

Source Data: N46USER.HPMS_2018_ROADS

Other GIS Layers:
- Town Names
- Boundary Names
Highway District 6
State Roads

Filenames: highway-district6-roads .PDF .MXD .PNG

Zoom To: District-District6  Map Scale: 1:240,000  Page setup: 11x17

Source Data: N46USER.HPMS_2018_ROADS

Other GIS Layers:
- Town Names
- Boundary Names
PUBLIC TRANSPORTATION

STATEWIDE TRANSIT SERVICES

Filenames: state-transit-services .PDF .MXD .PNG

Zoom To: State Display  Map Scale: 1:795,000  Page setup: 11x17

Source Data: (Bureau of Rail and Transit data)
S:\Global\866-RailTransit\Transit\GIS\City Bus\city_bus_122706.shp
S:\Global\866-RailTransit\Transit\GIS\Amtrak_NH\AMTRAK_STATIONS.shp
N46USER.FACILITIES_NHDOT

Other GIS Layers:
- Town Names
- Boundary Names
STATE TOURIST REGIONS

Legend
- Great North Woods
- White Mountains
- Dartmouth Lake Sunapee
- Lakes
- Monadnock
- Merrimack Valley
- Seacoast

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- Layers:
  - AnnoState_shields-Copy
  - AnnoCountyNames-Copy
  - AnnoTownNames_Statewide-Copy
  - AnnoBoundaryNames-Copy
  - FH_Routes-Proposed 2018
  - Tunnels
  - Interstates
  - US Routes
  - State Routes
  - State Routes-Non Numbered
  - Circles
  - Ramps
  - NonNH4_Routes
  - NH_Routes (OpenDockMenu)
- Other GIS Layers:
  - Tourist Regions
    - Great North Woods
    - White Mountains
    - Dartmouth Lake Sunapee
    - Lakes
    - Monadnock
    - Merrimack Valley
    - Seacoast
  - Boundaries
    - Town
    - County
    - State
    - National
  - State
    - OBJECTID
  - County
    - OBJECTID
  - Towns
    - OBJECTID

Source Data: N46USER.HPMS_2018_ROADS

Other GIS Layers:
- Town Names
- Boundary Names

Filenames: state-route-system .PDF .MXD .PNG

Zoom To: State Display  Map Scale: 1:795,000  Page setup: 11x17

Map Scale: 1:795,000

Page setup: 11x17
AIR AND RAIL

AIRPORTS

Public Use Airports

Legend
- Commercial Service
- NPIAS
- General Aviation (Non Federal Funded)
- Tunnels
- Interstates
- US Routes
- State Routes

Table Of Contents

Layers
- Commercial Service
- NPIAS
- General Aviation (Non Federal Funded)
- Unknown
- AnnoState_shields-Copy
- AnnoCountyNames-Copy
- AnnoTownNames_Statewide-Copy
- AnnoBoundaryNames-Copy
- NH_Routes
  - Tunnels
  - Interstates
  - US Routes
  - State Routes
  - State Routes
- NonNH_Routes
- NH_Routes_Preposed 2010
- NH_Routes_DropDownMenu
- Boundaries
  - BoundaryLines
    - Town
    - County
    - State
    - National
  - State
    - all other values
      - Counties
        - OBJECT0
      - Tows
        - OBJECT0

Filenames: airports .PDF .MXD .PNG

Zoom To: State Display Map Scale: 1:795,000 Page setup: 11x17

Source Data: N64AERONAUTICS.AIRPORTS_ALL

Other GIS Layers:
- Town Names
- Boundary Names
Belknap County
State Roads

Filenames: Belknap-county-state-roads .PDF .MXD .PNG
Zoom To: County Display-Belknap Map Scale: 1:182,000 Page setup: 11x17
Source Data: N46USER.HPMS_2018_ROADS
Carroll County
State Roads

Filenames: carroll-county-state-roads .PDF .MXD .PNG
Zoom To: County Display-Carroll    Map Scale: 1:240,000
Source Data: N46USER.HPMS_2018_ROADS
Cheshire County
State Roads

Filenames:  cheshire-county-state-roads  .PDF  .MXD  .PNG
Zoom To:  County Display-Cheshire  Map Scale:  1:207,000
Source Data:  N46USER.HPMS_2018_ROADS
Grafton County
State Roads

Filenames: grafton-county-state-roads .PDF .MXD .PNG

Zoom To: County Display-Grafton
Map Scale: 1:315,000
Page setup: 11x17

Source Data: N46USER.HPMS_2018_ROADS
HILLSBOROUGH COUNTY STATE ROADS

Filenames: hillsborough-county-state-roads .PDF .MXD .PNG

Zoom To: County Display-Hillsborough

Map Scale: 1:263,000
Page setup: 11x17

Source Data: N46USER.HPMS_2018_ROADS
Filenames: merrimack-county-state-roads

Zoom To: County Display-Merrimack

Source Data: N46USER.HPMS_2018_ROADS
Filenames: rockingham-county-state-roads .PDF .MXD .PNG

Zoom To: County Display-Rockingham

Source Data: N46USER.HPMS_2018_ROADS
**Filenames:** strafford-county-state-roads.

**Zoom To:** County Display-Strafford

**Source Data:** N46USER.HPMS_2018_ROADS
Filenames: sullivan-county-state-roads .PDF .MXD .PNG

Zoom To: County Display-Sullivan

Source Data: N46USER.HPMS_2018_ROADS

Map Scale: 1:187,000
Page setup: 11x17
STATEWIDE BOUNDARIES

TOWN AND COUNTY (BLACK AND WHITE)

Filenames: town-county-bw .PDF, .MXD, .PNG

Zoom To: State Display Map Scale: 1:795,000 Page setup: 11x17

Source Data:

Other GIS Layers:
Town Names
County Names
Boundary Names
TOWN AND COUNTY

Filenames: town-county .PDF, .MXD .PNG
Zoom To: State Display Map Scale: 1:795,000 Page setup: 11x17
Source Data: GISOWNER.BOUNDARY_COUNTY
Other GIS Layers:
Town Names
County Names
Boundary Names
CONGRESSIONAL DISTRICTS

**Legend**
- 1st District US Congress
- 2nd District US Congress

Based on 2010 Census populations. Senate Bill 202, Session of 2012.

**Filenames:** congressional-districts .PDF .MXD .PNG

**Zoom To:** State Display **Map Scale:** 1:795,000 **Page setup:** 11x17

**Source Data:** GISOWNER.BOUNDARY_CONGRESS

**Other GIS Layers:**
- Town Names
- County Names
- Boundary Names
SENATE DISTRICTS

Filenames: senate-districts .PDF .MXD .PNG

Zoom To: State Display Map Scale: 1:795,000 Page setup: 11x17

Source Data: N46USER.BOUNDARY_SENATE_DISTRICTS

Other GIS Layers:
Town Names
Boundary Names
Executive Council Districts

Filenames: executive-council-districts .PDF .MXD .PNG

Zoom To: State Display Map Scale: 1:795,000 Page setup: 11x17

Source Data: GISOWNER.BOUNDARY_EXECUTIVE_COUNCIL

Other GIS Layers:
- Town Names
- Boundary Names
Filenames: regional-planning-commissions .PDF .MXD .PNG

Zoom To: State Display Map Scale: 1:795,000 Page setup: 11x17

Source Data: GISOWNER.BOUNDARY_RPC

Other GIS Layers:
- Town Names
- Boundary Names
STATE TROOPER COVERAGE

Filenames: state-trooper-coverage .PDF .MXD .PNG

Zoom To: State Display Map Scale: 1:795,000 Page setup: 11x17

Source Data: GISOWNER.BOUNDARY_TROOPER

Other GIS Layers:
Town Names
Boundary Names
Urban Population
Approved 2010 Boundaries

Population Group
- Population 5K to 50K
- Population 50K to 200K
- Population > 200K

Filenames: urban-population .PDF .MXD .PNG
Zoom To: State Display Map Scale: 1:795,000 Page setup: 11x17

Source Data: APPROVED URBAN BOUNDARIES 2010

Other GIS Layers:
- Town Names
- County Names
- Boundary Names
UPDATE PROCESS

The NHDOT Planning Bureau, GIS Section manages the GIS Data Catalog, including updating Maps and supporting documentation.

GIS Data Catalog

Yearly Updates

- Data Catalog Map updates will begin once the yearly snapshot data is taken in January. As of April 2018, there are 44 approved maps. The goal is to complete all map updates and get approval within four weeks of the yearly snapshot layer being created.
- In \GIS_Dev\Mxd_Maps, a new year folder will be created. For example, the 2018 Data Catalog Maps folder was copied to new folder 2019 Data Catalog Maps.
- Each Map (.MXD) will need to have its source data updated with new snapshot source data. Revision date in the map’s lower right corner will need to be updated. Each map shall be exported to a PDF and printed for review by Planning Bureau administration. Each .MXD will be with the current year.
- All map PDFs will be approved before being published to the Data Catalog.
- Approved PDFs will be published to the GIS Data Catalog web page via Contribute software.
- Any changes in the GIS Data Catalog will need to be approved by Planning Bureau Administration.

Change or New Content Requests

1. Change or New Content requests will be emailed to GISMaps@dot.nh.gov or to Planning Bureau Administrator.
2. Requestor should state specific update or new content to be added to the GIS Data Catalog web page.
3. GIS Staff will review change or new content request and then forward with detailed recommendations to Planning Bureau Administration.
4. Planning Bureau Administration will accept recommended changes or add additional details to work task.
5. GIS Staff will create necessary files and forward to Planning Bureau Administration for final approval.
6. GIS Staff will post new file to the GIS Data Catalog via Contribute software.
7. GIS Staff will email requestor and cc Planning Bureau Administration when the task is completed.