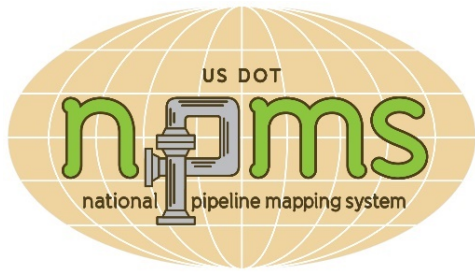
A photograph of a pipeline facility. Large, grey, cylindrical pipes are supported by a series of metal structures. The pipes are arranged in a line, receding into the distance. The structures consist of vertical brown metal posts and horizontal grey metal beams. The background shows a dirt road, green trees, and a clear sky. The text is overlaid on a semi-transparent grey box in the upper half of the image.

# National Pipeline Mapping System

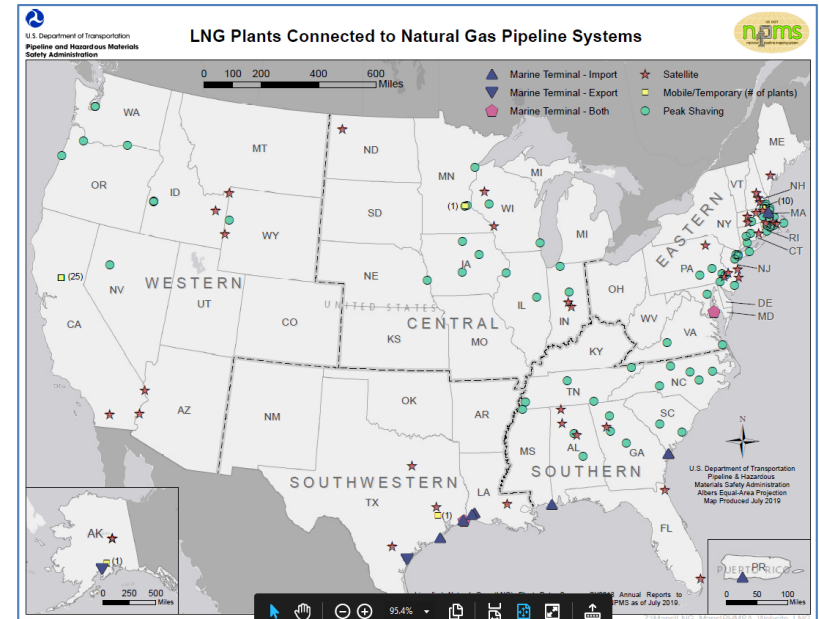
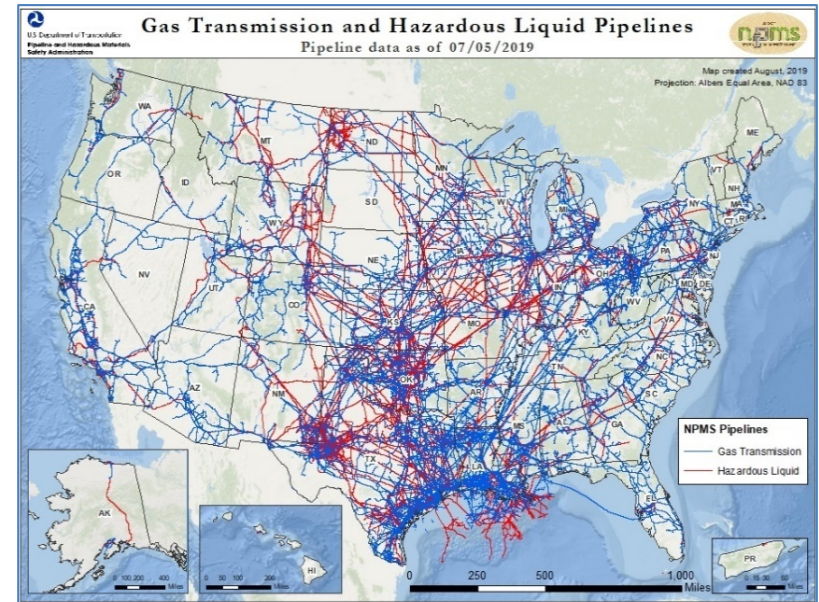
[www.npms.phmsa.dot.gov](http://www.npms.phmsa.dot.gov)

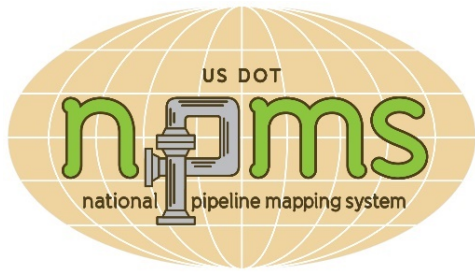
Leigha Gooding  
GIS Manager, US DOT PHMSA



# What is the NPMS?

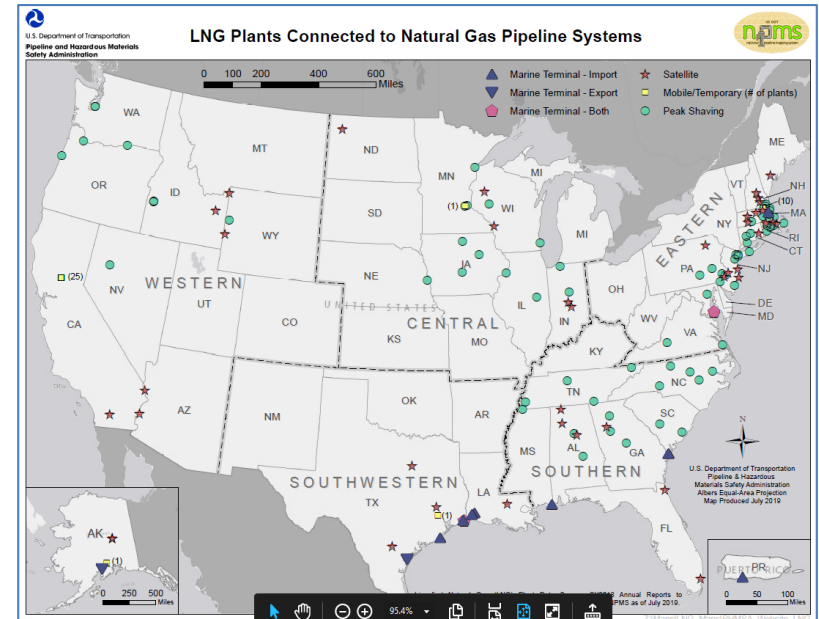
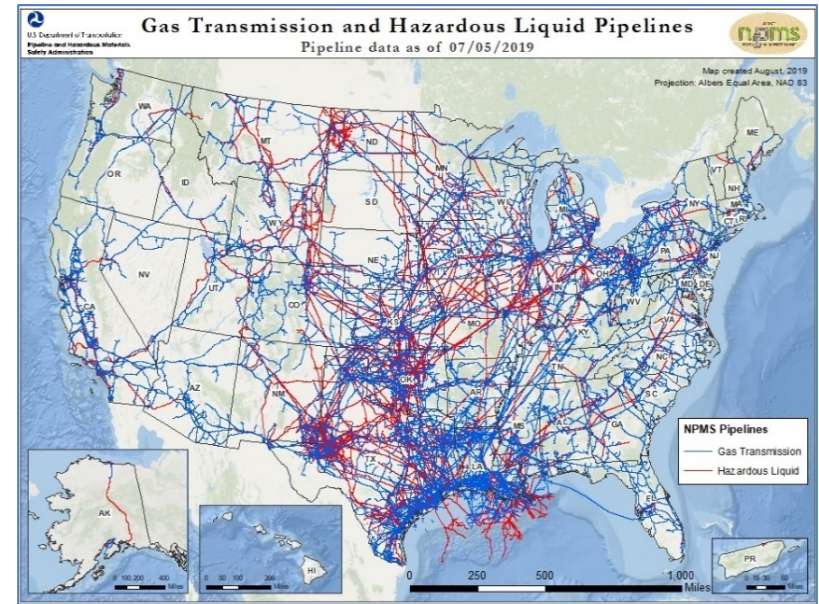
- GIS data collected from over 1500 different pipeline operating companies
- Per 49 CFR 191.29 and 195.61, operators are required to submit geospatial data for gas transmission and hazardous liquid pipelines and LNG plants annually; breakout tank submission is optional.
  - Nearly 1 million pipeline records, over 520,000 miles
- PHMSA also maps pipeline history, accident and incidents associated to pipelines to track asset history, PHMSA inspection boundaries, UNGS and many integrity management related sensitive areas.

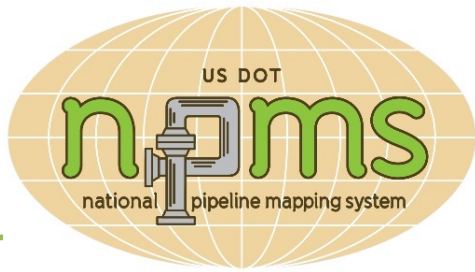




# What isn't the NPMS?

- Gas gathering or gas distribution pipelines
- Facilities not regulated by PHMSA
- All abandoned pipelines
  - Optional submission to NPMS
- Planned pipelines
  - If it's in the NPMS then it is in or on the ground!
- Pipelines not already in service at least 1 year ago
  - Regulations require operators submit pipeline operations as of 12/31 of the previous year
- A huge data processing or help center
  - 3 full time GIS analysts ([npms@dot.gov](mailto:npms@dot.gov))
- Experts on interpreting pipeline regulations
  - Contact PHMSA's Community Liaison Group





# How can I access the NPMS?

- Public Map Viewer
- Public Map Viewer iPhone App
- Search Operator directory by state, county or ZIP where they operate pipelines
- Download national pipeline map or lists of pipeline mileage by county and offshore area



- Pipeline Information Management Mapping Application (PIMMA)
- PIMMA iPhone App
- GIS Data Request

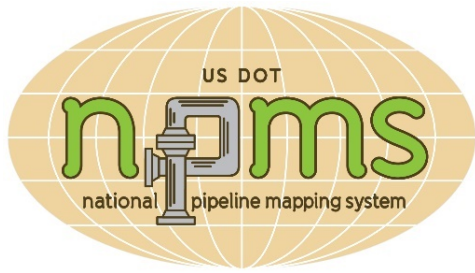
[www.npms.phmsa.dot.gov](http://www.npms.phmsa.dot.gov)



U.S. Department of Transportation  
Pipeline and Hazardous Materials  
Safety Administration

"To protect people and the environment by advancing the safe transportation of energy and other hazardous materials that are essential to our daily lives."



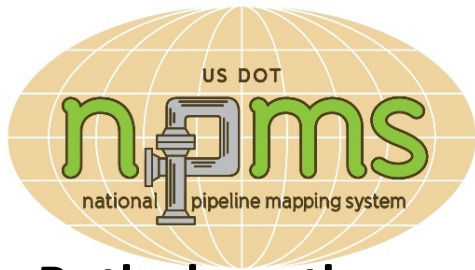


# What NPMS data can I see?

Registered NPMS users are limited to viewing NPMS data for facilities they operate, or that are operated in their area of jurisdiction.

- **General public**
  - Only publicly available tools. Same pipelines as other users, but additional limitations.
- **Pipeline operators** with gas trans. or haz. liquid pipes, LNG Plants or BOTs.
  - Only the data for facilities they operate.
- **Local government officials**, including all emergency responders and tribal governments.
  - All NPMS facilities in their county.
  - If your jurisdiction spans more than 1 county email [npms@dot.gov](mailto:npms@dot.gov) to modify your PIMMA account, or include this information on your data request application.
- **State government officials.**
  - All NPMS facilities in their state.
- **Federal government officials.**
  - All NPMS facilities in their area of interest or the entire US.



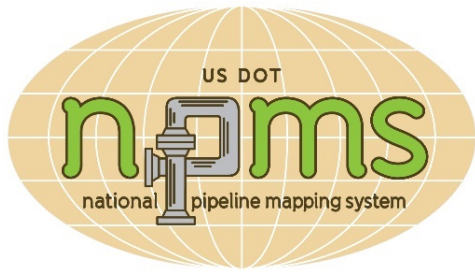


# Public Map Viewer VS PIMMA

**Both show the same pipelines,** but additional limitations on the Public Map Viewer:

- 1) You cannot see more than 1 county at a time.
- 2) You cannot zoom in closer than 1:24,000.
  - ❖ Pipeline layer turns off when you zoom in too close; zoom out and turn pipelines layer on again.
- 3) You cannot see a pipeline's diameter, level of spatial accuracy, detailed commodity information or operator's emergency contact information.
- 4) Accidents (HL) and Incidents (GT) do not include information about the pipeline.
  - ❖ Not limited to your area of jurisdiction because all accident and incident data can be downloaded from PHMSA's main website.
  - ❖ Limited to your area of jurisdiction on PIMMA because data includes pipeline information.
- 5) You cannot see federal lands, water ports or military bases
- 6) Measure Tool only displays miles
  - ❖ PIMMA also shows feet, meters and kilometers
- 7) No offshore pipelines
  - ❖ Offshore pipelines will be added to the Public Viewer in 2020



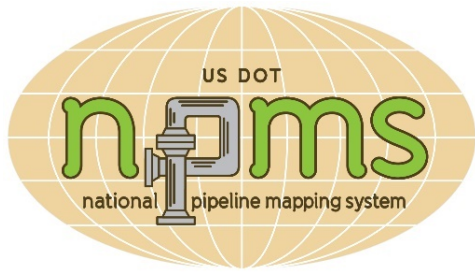


# Can I use NPMS data in my agency's GIS system?

**Complete the GIS Data Request form on the NPMS website to start your request**

- ESRI Shapefile or Geodatabase Feature Class
- All pipelines and attributes in your area of jurisdiction
- LNG Plants and BOTs in your area of jurisdiction are also available by request
- Application has a section for additional information to NPMS staff
  - leave a note if your jurisdiction covers more than 1 county
- Other GIS data available for public download from the NPMS website:
  - High and Other Population Areas
  - Commercially Navigable Waterways
  - Coming Soon: Great Lakes Ecological Unusually Sensitive Area
- Data use agreements differ based on jurisdiction type; stronger limitations and agreements if your jurisdiction extends more than 1 county.
  - **NEVER share GIS data**
  - **NEVER share a NPMS map that shows more than the Public Map Viewer**





# What else is new or coming soon?

- Offshore pipelines on the Public Map Viewer
- Tool to gather information about all pipelines inside of a box you draw on the map
  - Will include pipeline attributes and contact information
- Great Lakes Ecological Unusually Sensitive Area (for hazardous liquid operator integrity management planning)
- Underground Natural Gas Storage facilities
- New pipeline information spreadsheets on the NPMS website (mileage by county)
- Pending White House approval - potential changes to the NPMS:
  - Require all abandoned pipelines and BOTs
  - Improve spatial accuracy from +/- 500 ft to 50-100 feet
  - Require all Diameters (reported as Nominal Pipe Size, or NPS)
    - Above NPS 14 this represents the outer diameter, or in between below NPS 14
  - Last pipe assessment, if a pipe could affect a high consequence area, pipe material, seam type, wall thickness, pipe grade, year of installation
  - More information about LNG Plants (such as exclusion zones)





# THINK SPATIALLY



**GEOGRAPHIC INFORMATION SYSTEMS (GIS)**  
DEPARTMENT OF TRANSPORTATION

NPMS Questions?

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U.S. Department of Transportation  
Pipeline and Hazardous Materials  
Safety Administration

"To protect people and the environment by advancing the safe transportation of energy and other hazardous materials that are essential to our daily lives."

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