

Metadata:

Identification_Information:

Citation:

Citation_Information:

Originator: U.S. Dept. of Transportation - Pipeline and Hazardous Materials Safety Administration

Publication_Date: 20260716

Title: National Pipeline Mapping System - Pipelines

Geospatial_Data_Presentation_Form: vector digital data

Description:

Abstract: The National Pipeline Mapping System (NPMS) includes a geographic information system (GIS) dataset containing the location and selected attributes of gas transmission and hazardous liquid pipelines, liquefied natural gas (LNG) plants and breakout tanks (BOT) under jurisdiction of the Pipeline and Hazardous Materials Safety Administration (PHMSA). Effective October 1, 2015, pipeline and LNG plant data is collected annually from pipeline operators as required by 49 CFR §§ 191.29 and 195.61. Effective March 31, 2023 BOT data is collected annually from operators as required by 49 CFR §§ 195.61. This metadata is for the national pipeline dataset. There is NPMS pipeline data for all 50 states as well as the District of Columbia and Puerto Rico. The NPMS pipeline dataset contains gas transmission and hazardous liquid pipelines subject to regulations from PHMSA. The NPMS pipeline dataset does not contain gas gathering, gas distribution, or hazardous liquid lines not subject to 49 CFR § 195.61 and can never be used in place of contacting a one call center prior to digging.

Distribution of NPMS data in GIS format is handled for PHMSA by the National Repository and is limited to pipeline operators and local, state, tribal, and federal government officials and is subject to data access limitations and agreements. Fulfillments of data requests will include data only for the area of jurisdiction of the person requesting the data (data requests are fulfilled per county/counties, state, or the entire U.S.). Instructions for requesting NPMS data in a GIS format are outlined on the NPMS website at www.npms.phmsa.dot.gov.

Purpose: The National Pipeline Mapping System (NPMS) datasets are used to support the assessment of risk associated with the nation's hazardous liquid and gas pipeline infrastructure.

Supplemental_Information: Distribution Liability: Due to security issues, NPMS data can only be released to pipeline operators and certified local, state, tribal, and federal government officials. Use at your own risk. NPMS data have been compiled by the United States Department of Transportation, Pipeline and Hazardous Materials Safety Administration as part of the NPMS. The data is compiled from annual contributions made by the pipeline operators and is processed by private contractors. Neither the United States Government nor any party involved in the creation and compilation of NPMS data guarantees the accuracy or completeness of the product. NPMS data should be considered no more

accurate than ± 500 feet and must never be used as a substitute for contacting the appropriate local "one-call" center prior to digging.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 20041203

Ending_Date: 20260716

Currentness_Reference:

The NPMS pipeline dataset represents pipeline data submitted to PHMSA by regulated pipeline operators in order to stay in compliance with 49 CFR §§ 192.29 and 195.61. Operators are required to make an updated data submission every year to account for changes in operational status (date received recorded in Submission Date attribute field), or to review their previous NPMS submission and confirm that it still accurately represents operations as of the previous year (date confirmed recorded in Revision Date attribute field when a new data submission was not necessary). Data submissions acceptable for use in the NPMS are due each year on March 15 for gas transmission pipelines and LNG plants, and June 15 for hazardous liquid pipelines. To align with operator submitted Annual Reports to PHMSA, NPMS submissions always represent operations as of December 31 of the year prior to the data segment's last update. Always reference the Revision Date field to determine the currentness of that data segment record. For instance, a data segment record with a Revision Date from June 2021 will represent operational status of that pipeline as of 12/31/2020.

Operator submission data undergoes significant quality checks and processing prior to incorporation into the NPMS database and these activities are performed continually throughout the year, which means any version of the NPMS pipeline dataset will contain data submissions representing operations during more than one year. PHMSA publishes an updated NPMS pipeline dataset with all recently-processed and incorporated annual data submissions approximately every two-to-three months. The final annual update which incorporates all acceptable NPMS data submissions received during a calendar year is generally available the following March, but outdated pipeline data from non-compliant operators may be retained in the pipeline dataset rather than removed during enforcement procedures; this is why you may see certain pipeline segments with a Revision Date from more than two years ago. You can view the NPMS Submission and Compliance Status for any gas transmission or hazardous liquid pipeline operator from the operator's dashboard by going to the public PHMSA Portal Operator Search at <https://portal.phmsa.dot.gov/analytics/saw.dll?Portalpages>.

Status:

Progress: In work

Maintenance_and_Update_Frequency: Quarterly

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -158.129812

East_Bounding_Coordinate: -65.998204

North_Bounding_Coordinate: 71.305246

South_Bounding_Coordinate: 17.981603

Keywords:

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: Gas Transmission

Theme_Keyword: Hazardous Liquid

Theme_Keyword: Pipelines

Theme:

Theme_Keyword_Thesaurus: ISO 19115 Topic Categories

Theme_Keyword: transportation

Access_Constraints: None

Use_Constraints: The NPMS pipeline GIS data is Controlled Unclassified Information (CUI). It is available to pipeline operators and local, state, tribal, and federal government officials by request. Requests for GIS data from the NPMS should follow instructions on the NPMS website at www.npms.phmsa.dot.gov. Pipeline operators will only be provided data they contributed, while government officials will be provided data for their area of jurisdiction at a county, state, or federal level. Several considerations govern the display of static maps containing data derived from the NPMS. Static maps that are accessible/distributed outside of your governmental agency are restricted to displaying NPMS data for a single county and at a scale no larger than 1:24,000. Static maps distributed within your agency or displayed on websites with restricted access for government employees may display NPMS data at a scale larger than 1:24,000 and may include data for more than one county; however, such maps must be marked with the text "CUI". NPMS GIS data may not be included on a web, tablet, or mobile application or viewer unless consent is obtained from PHMSA's GIS Manager. U.S. Department of Transportation's Pipeline and Hazardous Materials Safety Administration thanks government officials for exercising good judgment and recognizing that maintaining the security of NPMS data promotes public safety. This NPMS data is confidential and protected from FOIA disclosure due to the security sensitive nature of the data. It is not to be shared with anyone without express permission from U.S. Department

of Transportation's Pipeline and Hazardous Materials Safety Administration (PHMSA). By using this data, you agree to the following: I understand that PHMSA's National Pipeline Mapping System (NPMS), established pursuant to 49 U.S.C. 60132, is a Federal information system that contains sensitive information, access to which is restricted by Federal law (44 U.S.C. 3545(f) and FIPS PUB 200, Sec. 3). I understand that the NPMS information system remains under the exclusive control of PHMSA and that PHMSA's granting of conditional access to NPMS does not render the NPMS or any information contained therein Federal or State property or permit it to be integrated into the Federal or State records system. PHMSA may revoke my NPMS privilege at any time and any records or information obtained from NPMS must be returned to PHMSA upon request. I understand that any requests by third parties for access to the NPMS information system or records derived from NPMS must be referred to the PHMSA Associate Administrator for Pipeline Safety. Notwithstanding the above, if any record derived from NPMS should ever be deemed subject to Federal or State public records laws for whatever reason, the record will be protected to the fullest extent permitted by law.

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: U.S. Dept. Of Transportation - Pipeline and Hazardous Materials Safety Administration

Contact_Person: Leigha Gooding

Contact_Position: GIS Manager

Contact_Address:

Address_Type: mailing and physical

Address: 1200 New Jersey Ave., S.E.

City: Washington

State_or_Province: DC

Postal_Code: 20590

Country: US

Contact_Voice_Telephone: 202-441-9086

Contact_Electronic_Mail_Address: leigha.gooding@dot.gov

Hours_of_Service: 8:30am - 6pm EST

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: U.S. Dept. Of Transportation - Pipeline and Hazardous Materials Safety Administration

Contact_Person: Nathaniel Thompson

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical

Address: 1200 New Jersey Ave., S.E.

City: Washington

State_or_Province: DC

Postal_Code: 20590

Country: US

Contact_Voice_Telephone: 202-843-3818

Contact_Electronic_Mail_Address: nathaniel.thompson@dot.gov

Hours_of_Service: 8am - 5pm EST

Native_Data_Set_Environment: Esri ArcGIS Pro 3.5.6

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report: The NPMS National Repository checks all entities and their attribute data for compliance with NPMS data standards.

Quantitative_Attribute_Accuracy_Assessment:

Attribute_Accuracy_Explanation: During the submission stage, operator submissions are subject to automated validation ensuring that only valid attribute values and combinations are used. During submission review by NPMS National Repository GIS analysts, attributes are further reviewed to ensure logical compliance with observed pipeline network changes and other PHMSA information collections, including certain elements on Annual Reports to PHMSA.

Logical_Consistency_Report:

During the submission processing stage, operator submissions are subject to thorough review to ensure attribute values logically align with pipeline geometries, pipeline operational changes identified since the previous year, and with other records held at and submitted to PHMSA, such as National

Registry Notifications, Annual Reports, Accident Reports and Inspection records. Each incoming pipeline segment is matched and compared to its existing counterpart pipeline segment from the previous year to identify and review every change. Every divestiture, acquisition, new pipeline or removal of a pipeline is validated through communication with stakeholders and corroboration through other records. If National Repository GIS analysts identify any logical inconsistencies, they document the discrepancy, provide artifacts and contact the pipeline operator to request clarifications or corrections not only to their NPMS submission data, but also across other PHMSA records as necessary. NPMS Submissions are not accepted by PHMSA and incorporated into the NPMS database, and operators do not meet compliance with the NPMS related federal safety regulations, until they resolve all issues identified by National Repository GIS analysts. The National Repository is also responsible for ensuring that all geospatial data are complete and correctly projected to the proper geodetic datum.

Positional accuracy of +/- 500 feet is the maximum discrepancy permitted per the NPMS National Data Standards. Data users can view the Quality Code attribute to identify the operator reported spatial accuracy for each pipeline segment.

Completeness_Report: The NPMS includes pipeline data for all 50 US states as well as the District of Columbia and Puerto Rico. The NPMS pipeline dataset contains gas transmission and hazardous liquid pipelines subject to reporting regulations from the Pipeline and Hazardous Materials Safety Administration (PHMSA) per 49 CFR §§ 192.29 and 195.61. The NPMS pipeline dataset does not contain gas gathering, gas distribution, or hazardous liquid lines not subject to 49 CFR § 195.61 and can never be used in place of contacting a one call center prior to digging. National Repository GIS analysts verify each submitted dataset for completeness according to NPMS standards and by validating mileages and certain attributes against separate reporting methods. As well, through change detection processes National Repository GIS analysts identify and seek validation and collaborating records for every new pipeline or a pipeline that an operator tries to remove through their annual NPMS submittal. The repository checks to ensure that all submissions include the required geospatial data, attribute data, metadata and contact information appropriate for use in the NPMS.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Publication_Date: 20260716

Title: National Pipeline Mapping System Pipelines

Edition: Various

Type_of_Source_Media: onLine

Source_Citation_Abbreviation: NPMS Pipelines

Source_Contribution: NPMS pipeline data is submitted to PHMSA's NPMS National Repository by pipeline operators subject to 49 CFR §§ 192.29 and 195.61. This includes all gas transmission and hazardous liquid pipeline operations, including both interstate and intrastate operations but excluding all gas gathering, gas distribution and non-jurisdictional hazardous liquid operations.

Process_Step:

Process_Description:

The NPMS data compilation process begins when a pipeline operator submits data to the National Repository. In total there are six major steps in the NPMS process that prepares this data file:

1. Operator Submission. The process starts when an operator prepares required NPMS submission components appropriate for use in the NPMS based on the NPMS national standards, and submits them through the Operator Submission and Validation Environment (OSAVE; <https://www.npms.phmsa.dot.gov/AboutOSAVE.aspx>). OSAVE allows operators to run QC scripts that automatically check data attribute structures, values and relationships against the NPMS national standards and returns a report outlining which fields and records contain errors. OSAVE will not accept an NPMS submission that does not pass all attribute validation checks at this stage. The NPMS national standards accept a range of GIS and non-GIS data formats and OSAVE is designed to assess and reject unacceptable or incomplete files. OSAVE also includes a questionnaire that collects detailed information from the pipeline operator to compile operator submission level metadata, answers to questions and collection of auxiliary data and files to support the National Repository GIS analysts' quality control and processing activities, such as reporting previous or new operator contacts when sales or acquisitions have taken place to support our validation activities.

2. Submission Review and Processing. National Repository GIS analysts collect and review the components of every incoming submission through OSAVE; store the files together in a dedicated submission folder; log the submission and critical details about the submission into the submission tracking database; and review related notes, submission metadata, operator compliance and error history, and PHMSA inspection and reporting records to build a custom QC routine aimed to identify key changes expected in this operator's submission. Depending on the incoming data file format, additional processing may be necessary to prepare required GIS data formats, apply correct projections and transformations, integrate the attributes with the spatial features and load the submission into a staging database. In addition to performing the custom QC routines, many standardized QC routines confirm each NPMS pipeline data submission meets all NPMS national standards, logical expectations, and that all changes are validated and corroborated with records. Additional data fields and spatial analysis are performed during these steps. Errors or concerns are thoroughly documented and delivered to the pipeline operator for resolution, often including inspection staff from federal or state level pipeline

safety agencies. Once all issues are resolved or clarified the data submission is ready for incorporation activities into the Linear Referencing System (LRS) database.

3. Change Detection and Other LRS Data Integration and Maintenance Activities. The National Repository GIS analysts use customized change detection and review applications to match every incoming pipeline segment to its appropriate counterpart in the existing NPMS pipeline dataset, or determine when a new segment should be added or a segment removed because it no longer represents a pipeline subject to 49 CFR §§ 192.29 and 195.61. Once the National Repository GIS analyst is satisfied with the change detection result completeness and accuracy the incoming operator data submission is incorporated into the national NPMS LRS database. Many activities are performed at this stage to update the national LRS pipeline centerline, build spatialized history and establish many events in the LRS database, including those for spatializing inspection and accident records. One of our established spatialized views, (called derived layers) in the LRS database is designed to fulfil all NPMS pipeline GIS data requests. Others support various web mapping applications with the same pipeline centerline but different events necessary to meet application requirements.

4. Final Stakeholder Review. Once an NPMS pipeline submission is fully incorporated into the NPMS database the operator is notified so they can use the Data Review functionality within OSAVE to review their final data submission and a variety of attribute and mileage summarizations to help them identify potential errors. In the rare occasion an error is identified in this final review the operator notifies the NPMS National Repository GIS analysts who apply corrected to the NPMS database.

5. Final QC of the Data Request Data Source. Since the database is running through a queue of National Repository GIS analyst approved updates and triggering event creations and building derived layers every night, a copy of the NPMS GIS data request derived layer is pulled from the LRS database approximately every 2-3 months. National Repository GIS analysts apply additional QC measures and review database logs to ensure there were no errors during the data load, event creation or dynamic segmentation activities, and store this derived layer to support all NPMS data requests fulfilled until the next data pull approximately 2-3 months later. This metadata document is updated for each data pull so the user can always identify the exact data pull that supplied their NPMS GIS data request.

6. Fulfilling the NPMS GIS Data Request. Once National Repository GIS analysts receive a complete and verified data request per the instructions available on the NPMS website at www.npms.phmsa.dot.gov, they use attribute selections to extract the pipeline segments that PHMSA can release, based on the requester's validated area of jurisdiction (for local, state, tribal or federal government applicants) or operations (for pipeline operators). Based on the request, that data is compiled in an Esri Shapefile or File Geodatabase format with metadata and documentation regarding

data use restrictions. Data is delivered to applicants through a secure FTP sent to their government or pipeline operator email address. While waiting for a data request to be fulfilled, anyone can use the NPMS Public Map Viewer (<https://www.npms.phmsa.dot.gov/AboutPublicViewer.aspx>) to view the same pipelines on a map showing one county at a time, scales no larger than 1:24,000, and elimination of sensitive attributes (including Diameter and Quality Code). Users cannot download NPMS GIS data from the Public Map Viewer or any NPMS web mapping application.

Process_Date: 20260716

Process_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: U.S. Dept. of Transportation - Pipeline and Hazardous Materials Safety Administration

Contact_Address:

Address_Type: mailing and physical

Address: 1200 New Jersey Ave., S.E.

City: Washington

State_or_Province: DC

Postal_Code: 20590

Contact_Voice_Telephone: 202-441-9086

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String

Point_and_Vector_Object_Count: 415406

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 8.9831528411952133e-09

Longitude_Resolution: 8.9831528411952133e-09

Geographic_Coordinate_Units: Decimal Degrees

Geodetic_Model:

Horizontal_Datum_Name: D North American 1983

Ellipsoid_Name: GRS 1980

Semi-major_Axis: 6378137.0

Denominator_of_Flattening_Ratio: 298.257222101

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: National Pipeline Mapping System- Pipelines

Entity_Type_Definition: Polyline of pipeline segments

Entity_Type_Definition_Source: Pipeline Segment Attribute Table

Attribute:

Attribute_Label: QUALITY_CD

Attribute_Definition: Quality Code. Operator's estimate of the positional accuracy of the submitted pipeline data

Attribute_Definition_Source: OPERATOR

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: E, V, G, P, U

Enumerated_Domain_Value_Definition: E = Excellent (within 50ft), V = Very Good (50-300ft), G = Good (301-500ft), P = Poor (501-1000ft), U = Unknown

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: INTERSTATE

Attribute_Definition: Interstate. Designator to identify whether a pipeline is an interstate pipeline according to federal code and regulations.

Attribute_Definition_Source: OPERATOR

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: N, Y

Enumerated_Domain_Value_Definition: N = No (pipeline is intrastate), Y = Yes (pipeline is interstate)

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: CMDTY_DTL3

Attribute_Definition: Commodity Detail 3. Abbreviation for the primary commodity's third subcategory detail. This is not a required attribute value. This value will only be populated if more than 2 Commodity Details apply to the pipeline segment.

Attribute_Definition_Source: OPERATOR

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: CRW, CRR, RGS, RFD, RKJ, OTR, ETB, BDB, OBI, NG1, NG2, NG3, NG4

Enumerated_Domain_Value_Definition: These values are valid ONLY when COMMODITY = "CRD": CRW = sweet crude; CRR = sour crude. These values are valid ONLY when COMMODITY = PRD: RGS = refined non-ethanol blended gasoline; RFD = refined fuel oil, diesel; RKJ = refined kerosene, jet fuel; OTR = other refined and/or non-HVL petroleum products; ETB = ethanol blended gasoline; BDB = biodiesel blend; OBI = other biofuels. These values are valid ONLY when COMMODITY = "NG": NG1 = pipeline quality or tariff quality natural gas; NG2 = wet but non-sour natural gas; NG3= sour but non-wet natural gas; NG4 = wet, sour natural gas

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: LOW_STRESS

Attribute_Definition: Low Stress. Designator to identify if the hazardous liquid pipeline segment is a low stress pipeline. Value is required for liquid in-service pipelines. If the hazardous liquid pipeline segment operates at 20% or less of SMYS, the segment is a low stress pipeline. Field is empty for gas pipelines or liquid pipelines which are idle, abandoned, or retired.

Attribute_Definition_Source: OPERATOR

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: N, Y

Enumerated_Domain_Value_Definition: N = No (pipeline is not low stress), Y = Yes (pipeline is low stress), <NULL> = this attribute does not apply to this line.

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: SUB_DATE

Attribute_Definition: Submission Date. Identifies the date in which the NPMS National Repository received the pipeline data submission. A submission received during 2021 reflects operations in the field as of December 31, 2020.

Attribute_Definition_Source: NPMS

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: Date

Enumerated_Domain_Value_Definition: N/A

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: CMDTY_DTL1

Attribute_Definition: Commodity Detail 1. Abbreviation for the primary commodity's first subcategory detail. This is not a required attribute value.

Attribute_Definition_Source: OPERATOR

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: CRW, CRR, RGS, RFD, RKJ, OTR, ETB, BDB, OBI, NG1, NG2, NG3, NG4

Enumerated_Domain_Value_Definition: These values are valid ONLY when COMMODITY = "CRD": CRW = sweet crude; CRR = sour crude. These values are valid ONLY when COMMODITY = PRD: RGS = refined non-ethanol blended gasoline; RFD = refined fuel oil, diesel; RKJ = refined kerosene, jet fuel; OTR = other refined and/or non-HVL petroleum products; ETB = ethanol blended gasoline; BDB = biodiesel blend; OBI = other biofuels. These values are valid ONLY when COMMODITY = "NG": NG1 = pipeline quality or tariff quality natural gas; NG2 = wet but non-sour natural gas; NG3= sour but non-wet natural gas; NG4 = wet, sour natural gas

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: COMMODITY

Attribute_Definition: Commodity. Abbreviation for the primary commodity carried by the pipeline

Attribute_Definition_Source: OPERATOR

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: CRD, PRD, AA, LPG, NGL, OHV, CO2, ETH, EPL, NG, LG, PG, SG, HG, OTG, EPG

Enumerated_Domain_Value_Definition: CRD = crude oil; PRD = non-HVL product; AA = anhydrous ammonia; LPG = liquefied petroleum gas; NGL = natural gas liquids; OHV = other HVLs; CO2 = carbon dioxide; ETH = fuel grade ethanol; EPL = abandoned pipelines that previously transported a liquid; NG = natural gas; LG = landfill gas; PG = propane gas; SG = synthetic gas; HG = hydrogen gas; OTG = other gas; EPG = abandoned pipelines that previously transported a gas

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: CMDTY_DESC

Attribute_Definition: Commodity Description. Descriptive information of the commodities carried by the pipeline. This is not a required attribute value.

Attribute_Definition_Source: OPERATOR

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: Free text

Enumerated_Domain_Value_Definition: Any string 40 characters in length

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: CMDTY_DTL2

Attribute_Definition: Commodity Detail 2. Abbreviation for the primary commodity's second subcategory detail. This is not a required attribute value. This value will only be populated if more than 1 Commodity Detail applies to the pipeline segment.

Attribute_Definition_Source: OPERATOR

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: CRW, CRR, RGS, RFD, RKJ, OTR, ETB, BDB, OBI, NG1, NG2, NG3, NG4

Enumerated_Domain_Value_Definition: These values are valid ONLY when COMMODITY = "CRD": CRW = sweet crude; CRR = sour crude. These values are valid ONLY when COMMODITY = PRD: RGS = refined non-ethanol blended gasoline; RFD = refined fuel oil, diesel; RKJ = refined kerosene, jet fuel; OTR = other refined and/or non-HVL petroleum products; ETB = ethanol blended gasoline; BDB = biodiesel blend; OBI = other biofuels. These values are valid ONLY when COMMODITY = "NG": NG1 = pipeline quality or tariff quality natural gas; NG2 = wet but non-sour natural gas; NG3= sour but non-wet natural gas; NG4 = wet, sour natural gas

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: OPID

Attribute_Definition: Operator ID. Accounting number assigned by the PHMSA to the company that operates the pipeline. This value can be used to access other records from the PHMSA website about this pipeline operator.

Attribute_Definition_Source: NPMS

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 00001 - 99999

Enumerated_Domain_Value_Definition: Any number 5 characters in length

Enumerated_Domain_Value_Definition_Source: PHMSA

Attribute:

Attribute_Label: OS_ST_FIPS

Attribute_Definition: Offshore State FIPS Code. Identifies the state by the 2-digit Federal Information Processing Standard (FIPS) code for the state in which the pipeline line segment is located. State FIPS code determined by NPMS National Repository GIS Analysts through an intersection with the US Census Bureaus County TIGER/Shapefile. A pipeline segment that is located in state waters is assigned that state's 2-digit FIPS Code. A pipeline segment that is located in federal waters is assigned the internal code 99.

Attribute_Definition_Source: NPMS

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 2-digit text value established by U.S. government

Enumerated_Domain_Value_Definition: Refer to the internet, such as EPA's Envirofacts, for information regarding specific FIPS code values

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: PLINE_ID

Attribute_Definition: Pipeline ID. Unique identifier for a specific pipeline within a pipeline system.

Attribute_Definition_Source: OPERATOR

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: Free text

Enumerated_Domain_Value_Definition: Any string 20 characters in length

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: Shape_Length

Attribute_Definition: Length of feature in internal units.

Attribute_Definition_Source: Esri

Attribute_Domain_Values:

Unrepresentable_Domain: Positive real numbers that are automatically generated.

Attribute:

Attribute_Label: STATUS_CD

Attribute_Definition: Status Code. Identifies the current operational status of the pipeline segment.

Attribute_Definition_Source: OPERATOR

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: I, D, B, R

Enumerated_Domain_Value_Definition: I = in service; D = idle; R = retired; B = permanently abandoned (I, D, and R are all subcategories of an active pipeline as defined by PHMSA)

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: Esri

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: SUBMIT_ID

Attribute_Definition: Submission ID. Internal tracking value used by NPMS National Repository GIS Analysts to reflect which pipeline data submission included this pipeline data segment. The Submission ID value is a combination of the submitting pipeline operator's Operator ID value, and a unique identifier for that year's data submission.

Attribute_Definition_Source: NPMS

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: Free text

Enumerated_Domain_Value_Definition: Any string 12 characters in length

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: SUBSYS_NM

Attribute_Definition: Subsystem Name. Name for a smaller sub-section of a pipeline system. A subset of SYS_NM. This is not a required attribute value.

Attribute_Definition_Source: OPERATOR

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: Free text

Enumerated_Domain_Value_Definition: Any string 40 characters in length

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: REVIS_CD

Attribute_Definition: Revision Code. Identifies the type of revision that applied to this pipeline segment during submission processing. NPMS National Repository GIS Analysts use this attribute value to verify changes to the national pipeline dataset.

Attribute_Definition_Source: OPERATOR

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: A, C, J, S, T, B, N

Enumerated_Domain_Value_Definition: A=addition to the NPMS, C=addition due to construction, J=addition due to mileage which is new to PHMSAs gas transmission or hazardous liquid reporting jurisdiction, S=spatial modification to the previous pipeline data segment, T=attribute modification to the previous pipeline data segment, B=both a spatial and attribute modification to the previous pipeline data segment, N=no change to the previous pipeline data segment.

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: OPER_NM

Attribute_Definition: Operator Name. Name of the company that operates the pipeline, as assigned to the Operator ID in PHMSA records.

Attribute_Definition_Source: NPMS

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: Free text

Enumerated_Domain_Value_Definition: Any string 40 characters in length

Enumerated_Domain_Value_Definition_Source: PHMSA

Attribute:

Attribute_Label: MILES

Attribute_Definition: Miles. Length in miles of the line segment calculated in Albers Equal Area Conic North America, NAD83.

Attribute_Definition_Source: NPMS

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 0.00005 - 999999.99999

Enumerated_Domain_Value_Definition: Any real 6 characters in length with 5 decimals

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: FRP_SEQ

Attribute_Definition: Facility Response Plan (FRP) Sequence Number for applicable liquid pipe segments according to 49 CFR §§ 195.61. Assigned by PHMSA and provided to the operator in the Letter of Approval (LOA) for this submitted FRP.

Attribute_Definition_Source: OPERATOR

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 0000000001 - 9999999999

Enumerated_Domain_Value_Definition: Any number 10 characters in length

Enumerated_Domain_Value_Definition_Source: PHMSA

Attribute:

Attribute_Label: SYS_NM

Attribute_Definition: System Name. Name of a single pipeline or a grouping of pipelines that function as a whole.

Attribute_Definition_Source: OPERATOR

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: Free text

Enumerated_Domain_Value_Definition: Any string 40 characters in length

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: CMDTY_GEN

Attribute_Definition: General Commodity Type. Specifies whether pipeline segment carries gas or hazardous liquid commodities. Calculated by NPMS National Repository GIS analysts based on COMMODITY field

Attribute_Definition_Source: NPMS

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: GAS, LIQUID

Enumerated_Domain_Value_Definition: GAS = gas transmission general commodity (applies to the following COMMODITY values: NG; LG; PG; SG; HG; OTG; EPG) ; LIQUID = hazardous liquid general commodity (applies to the following COMMODITY values: CRD; PRD; AA; LPG; NGL; OHV; CO2; ETH; EPL)

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: OBJECTID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: Esri

Attribute_Domain_Values:

Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: OS_FIPS

Attribute_Definition: County FIPS code. Identifies the county by the 5-digit Federal Information Processing Standard (FIPS) code for the county and state in which the pipeline line segment is located. The first two digits represent the state; the last 3 represent the county. County FIPS code determined by NPMS National Repository GIS Analysts through an intersection with the US Census Bureau's County TIGER/Shapefile. A pipeline segment that is located in state waters is assigned the FIPS code of the county in which the pipeline would be located if the county boundaries were extended through the state waters. A pipeline segment that is located in federal waters is assigned an internal 5-digit code representing the specific body of water (see domain value definition list).

Attribute_Definition_Source: NPMS

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 5-digit text value established by U.S. government

Enumerated_Domain_Value_Definition: Refer to the internet, such as EPA's Envirofacts, for information regarding specific FIPS code values. For pipelines segments located in federal waters the internally representative FIPS values are 99001 = Alaska Area; 99002 = Atlantic Ocean; 99003 = Gulf of America; 99004 = Hawaii Area; 99005 = Pacific Ocean.

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: OS_CO_NM

Attribute_Definition: County Name. Identifies the Name of the county in which the pipeline segment is located in a mix of upper- and lower-case letters. County Name determined by NPMS National Repository GIS Analysts through an intersection with the US Census Bureau's County TIGER/Shapefile. A pipeline segment that is located in state waters is assigned the name of the county in which the pipeline would be located if the county boundaries were extended through the state waters. A pipeline segment that is located in federal waters is assigned a name representing the specific body of water (Alaska Area, Atlantic Ocean, Gulf of America, Hawaii Area, Pacific Ocean).

Attribute_Definition_Source: NPMS

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: Free text

Enumerated_Domain_Value_Definition: Any string 30 characters in length

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: DIAMETER

Attribute_Definition: Diameter. Nominal diameter of the pipeline, in inches.

Attribute_Definition_Source: OPERATOR

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 1 - 99999.99

Enumerated_Domain_Value_Definition: Any real 5 characters in length with 2 decimals

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: OS_ST_ABBR

Attribute_Definition: State Abbreviation. Identifies the two-character abbreviation of the state in which the pipeline segment is located. State abbreviation determined by NPMS National Repository GIS Analysts through an intersection with the US Census Bureau's County TIGER/Shapefile. A pipeline segment that is located in state waters is assigned that state's abbreviation. A pipeline segment that is located in federal waters is assigned the internal abbreviation "FW."

Attribute_Definition_Source: NPMS

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: Free text

Enumerated_Domain_Value_Definition: Any 2 characters in length

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: OS_YN

Attribute_Definition: Offshore. Designator to identify whether a pipeline segment location is estimated as being offshore. Offshore is determined by NPMS National Repository GIS Analysts through an intersection with the US Census Bureau's County TIGER/Shapefile with additional estimates to represent inland waters. The inland water boundaries are not a legal or accurate boundary, they are estimates to support NPMS data comparisons.

Attribute_Definition_Source: NPMS

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: N, Y

Enumerated_Domain_Value_Definition: N = No (pipeline segment is estimated as onshore), Y = Yes (pipeline segment is estimated as offshore)

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: ROUTE_ID

Attribute_Definition: Internal Linear Referencing System-based unique ID of the centerline.

Attribute_Definition_Source: NPMS

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 1 - 9999999999

Enumerated_Domain_Value_Definition: Any number

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: BEGIN_MEASURE

Attribute_Definition: Internal Linear Referencing System-based beginning/starting measurement in feet on the centerline applicable to the segment.

Attribute_Definition_Source: NPMS

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 0.00001 - 9999999999

Enumerated_Domain_Value_Definition: Any number

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: END_MEASURE

Attribute_Definition: Internal Linear Referencing System-based ending/finishing measurement in feet on the centerline applicable to the segment.

Attribute_Definition_Source: NPMS

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 0.00001 - 9999999999

Enumerated_Domain_Value_Definition: Any number

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: EXPORTDATE

Attribute_Definition: Internal tracking of the NPMS National Layer 'as of' date and time.

Attribute_Definition_Source: NPMS

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: MM/DD/YYYY HH:MM:SS AM/PM

Enumerated_Domain_Value_Definition: Any date and time

Enumerated_Domain_Value_Definition_Source: NPMS

Attribute:

Attribute_Label: REVIS_DATE

Attribute_Definition: Revision Date. Use this field to determine the currentness of the pipeline segment. For example, if the Revision Date reflects 2021, the pipeline data segment reflects operations in the field as of December 31, 2020. More specifically, the Revision Date identifies the date in which the NPMS National Repository received the pipeline data submission or a confirmation that no changes are necessary to the existing data in order to reflect operations as of December 31 of the previous year (referred to as a no change notification). If the operator submits new data for the year, this date will be the same as the Submission Date value. If an operator submits a notification of no change for the pipeline rather than new data, the date will reflect the receipt of the notification while the Submission Date will reflect the last date the data changed through a data submission.

Attribute_Definition_Source: NPMS

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: Date

Enumerated_Domain_Value_Definition: N/A

Enumerated_Domain_Value_Definition_Source: NPMS

Metadata_Reference_Information:

Metadata_Date: 20260804

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: U.S. Dept. Of Transportation - Pipeline and Hazardous Materials Safety Administration

Contact_Person: Nathaniel Thompson

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical

Address: 1200 New Jersey Ave., S.E.

City: Washington

State_or_Province: DC

Postal_Code: 20590

Country: US

Contact_Voice_Telephone: 202-843-3818

Contact_Electronic_Mail_Address: nathaniel.thompson@dot.gov

Metadata_Standard_Name: FGDC Content Standard for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time