INTRODUCTION

Energy Intelligence, publisher of Natural Gas Week, and daily publications Oil Daily and Gas Market Reconnaissance, has published prices designed to represent market values for the traded wholesale natural gas spot markets in North America since the markets were deregulated in the 1980s. Energy Intelligence’s spot-price reports are based on transactions conducted and reported directly by buyers and sellers active in these markets under the standards recommended by the Federal Energy Regulatory Commission (FERC).

This methodology describes the markets we cover, the standards Energy Intelligence uses to collect and manage reported data and the process used to create our price reports. Like the markets themselves, our methodology can change over time. Energy Intelligence will endeavor to publicly outline changes as far in advance as practicable. Updates to this document will reflect those changes and be detailed in a revision history published at the end of this document.

Energy Intelligence gathers transaction-level trade data electronically directly from buyers and sellers that are parties to the deals they report. In accordance with the recommendations contained in FERC’s Policy Statement on Natural Gas and Electric Price Indices (PL03–3–000), transaction data is provided by risk, accounting or other noncommercial sectors of the reporting companies. Energy Intelligence signs confidentiality agreements with any data provider that requires one. These agreements are typically designed to prevent disclosure of submitted data except where disclosure is legally required. Energy Intelligence does not use transaction-level data from individual data providers for news reporting; it is only used to develop our price reports.

Although we base our published prices on transactions in the traded daily and bidweek spot markets, we encourage and accept pricing information from other physical gas markets, including index trades, intraday trades, multimonth and seasonal trades, balance-of-month trades, non-bidweek monthly trades as well as financial basis trades as long as these trades are properly identified and reported with sufficient detail.

Reported transaction-level data is transferred to and stored in a secure, fully auditable database/analytics system, access to which is restricted to staff directly responsible for price reporting.

Energy Intelligence has in place several company-wide policies regarding to lawful and ethical conduct by its employees. The company’s staff are required to comply with the letter, spirit and intent of all applicable laws and regulations and to avoid any illegal, dishonest or unethical conduct.

In order to avoid conflicts of interest, reporters and editors are prohibited from entering into short-term trading of oil company stocks or participating in futures trading for oil or gas. Further, no employee, regardless of their function, may buy or sell any securities of a company with publicly traded securities, either directly or through a family member, friend or anyone else, while the employee is in possession of material nonpublic information about such company.

Reporting Transactions to Energy Intelligence

WHAT TO REPORT: For the daily market, data providers should report at a minimum all physical fixed-price trades transacted up to the next-day pipeline nomination deadline (currently 1 p.m. Central prevailing time) regardless of the transaction’s location. Trades should be reported individually with the pipeline name and corresponding meter number or common trading-location name, the transacted price, volume, reporting company name, buy/sell indicator, trade date, flow start and flow end dates, counterparty name and broker or trading platform name. In reporting a transaction’s location, Energy Intelligence encourages data providers to report the direction of flow if known and the currency and unit of measure if it differs from the in–US standard of US$ per million Btu. Energy Intelligence will accept transaction reports without counterparty names as some contracts restrict disclosure, but we and FERC strongly encourage the reporting of counterparty information as a check against reporting errors and to help identify double counting.

For the monthly bidweek market, data providers should report all trades transacted during the last five business days of the month (bid-week) for flow on each day of the following month. At a minimum,
these should include all fixed-price-physical and physical basis trades in which the basis value is negotiated on any bidweek day prior to and including the day the near-month Nymex gas futures contract expires and the absolute price ivd with the negotiated basis value as the price.

**HOW TO REPORT:** In keeping with the FERC standards, price reports should be compiled and sent to Energy Intelligence by a non-commercial segment of the trading entity. Data providers should email price reports in Excel or CSV format to prices@energyintel.com by 3 p.m. Central prevailing time each business day and include contact information for any potential follow-up questions. For the monthly bidweek survey, price reports should be sent by 3 p.m. Central time on the final business day of each month.

**Methods Energy Intelligence Uses to Create Published Prices (What We Do With the Trade Data):**

Daily spot gas is typically traded each day for delivery the following day, with exceptions for weekends and holidays. Most weeks, daily gas trades on Friday for flow Saturday, Sunday and Monday unless the last day of the month occurs on the weekend. Typically, for example, when the last day of the month falls on Sunday, “next day” gas trades on Thursday for flow Friday and Saturday and trades on Friday for flow Sunday and Monday. In the case of holidays, like Thanksgiving 2019, for example, when there was no trading on Thursday and Friday and the last day of November was on a Saturday, daily gas traded Tuesday for flow Wednesday through Saturday, and on Wednesday for flow Sunday and Monday. Energy Intelligence will publish a trading calendar before the start of the calendar year.

At the interior Canada locations of AECO, Westcoast Station 2 and Empress, Energy Intelligence uses only trades that are transacted in Canadian dollars; however, these Canadian-dollar prices are converted to their US dollar equivalents before analysis and publication using each day's CAD-to-USD exchange rate published daily by the Bank of Canada.

When Energy Intelligence receives a reported price transaction, the individual data elements such as volume and price are converted to standardized units that are comparable across all data providers. The reported locations are scrutinized and mapped to existing trading locations and/or non-published tracking locations. Transactions that are data-provider identified as having special or non-standard conditions are marked for exclusion and the remainders are comingled with others at each location for analysis.

Energy Intelligence editors analyze reported data by location to identify transactions that may have been reported in error or otherwise are non-comparable with others traded at the same location in the same trading-time window.

Trades that are more than two deviations outside the arithmetic mean and those with unusually large or small volumes are flagged for additional review. Transactions that are more than two standard deviations from the mean are not necessarily out-of-market trades. Energy Intelligence often encounters sets of data that do not reflect a “normal distribution” around a mean but when outlying data significantly impacts a volume-weighted average or cannot be substantiated by other market conditions, editors typically contact the data provider for more specifics about the transaction. If a satisfactory answer cannot be obtained, editors may choose to exclude the transaction from the published pricing.

**Calculating Volume-Weighted Averages – Daily and Bidweek**

For the daily spot-gas and monthly bidweek surveys Energy Intelligence publishes for each location a low price, high price, volume-weighted average price, total volume and number of trades that underpin the values. The low and high prices are the lowest and highest prices that are part of the underlying data set. The volume-weighted average is determined by multiplying each transaction’s price times its associated volume, adding those products and then dividing the sum of those products by the total volume of all transactions. This can be expressed in the following formula:

\[
P = \frac{\sum PV}{\sum V}
\]

Where:
- \(A\) = volume-weighted average price
- \(P\) = transaction price
- \(V\) = transaction volume

**EDITORIAL ASSESSMENTS:** No minimum threshold is required by Energy Intelligence for a price to be published. Every price listing includes the number of transactions and the associated volume that underpins the listing. If it is determined by the editors that a price point has insufficient data to calculate a representative average, either no price will be reported or a clearly identifiable editorial assessment will be made based on an analysis of alternate market information,
which may include basis relationships to trading at more-liquid price locations, bids and offers, implied physical values derived from index and/or financial basis trading, and/or the regional movement of prices for the period being surveyed. When an editorial assessment is published, an asterisk will appear next to the price location, an explanatory footnote will be published along with the price table, the deal count for the location will be published as a “1” and the volume will be published as a zero.

Energy Intelligence’s data distributions have a field that denotes whether any part of a given price reflects an assessment.

**WEEKLY AND MONTHLY AVERAGES:** Weekly and monthly averages are calculated exclusively from the data underlying Energy Intelligence’s daily price surveys.

**WEEKLY AVERAGES:** Average price – the volume-weighted average of the published daily prices from the trading week’s flow days at a given pricing point. Flow days with no trades are excluded from the calculation.

Average daily Volume – the sum of the daily volume from the trading week’s flow days at a given pricing point divided by seven. Flow days with zero volume are included in the calculation.

**MONTHLY AVERAGES:** Average price – the arithmetic mean of the daily volume-weighted average prices from each trading day of the calendar month at a given pricing point. Trading days with no deals are excluded from the calculation.

**REVISIONS/CORRECTIONS:** From time to time, Energy Intelligence may publish revisions or corrections to previously published prices when a data provider reports a correction to previously submitted transaction data within seven days of publication, provided the corrected/revised data was part of the data provider’s original report and the change results in a material difference to the price data originally published. Energy Intelligence will also correct previously published price data if we find that we have made an error in our own processes. Among the elements Energy Intelligence will consider in assessing whether a revision or correction is warranted are the amount of time that has passed since original publication, the degree of impact on a published average price and the nature of the error. When a correction is published, Energy Intelligence will issue a subscriber notice in our publications and revise the associated price tables.

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**Natural Gas Week’s Price Point Descriptions**

To remain abreast of changes in the marketplace, Energy Intelligence will periodically amend, add or discontinue descriptions of its trading locations on which its published indexes are based.

When Energy Intelligence identifies a change in the market that may warrant a change to an existing location description, it will publish a subscriber notice outlining the potential change and solicit comments from the public for a minimum of two weeks. Once the comment period has ended, Energy Intelligence will consider feedback and may modify the potential change and/or solicit additional comment during a subsequent comment period. Once a final decision is made on a change, Energy Intelligence will publish a notice explaining the change and the date on which it becomes effective.

A similar comment solicitation/decision-making process will be followed in the case of discontinuing a published index.

For additions of new index locations, Energy Intelligence will publish notice in advance of the addition with a description of the new trading point.

Energy Intelligence will publish an updated methodology that reflects the modifications to its index location descriptions once those changes become effective.

The following are Energy Intelligence’s current price point descriptions:

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**GULF COAST**

**ANR SE**

Deliveries into ANR Pipeline Co.’s Southeast transmission and gathering lines in Zone 1, including the SE Headstation Pool at Eunice, Louisiana, and the lines that extend south to an interconnect with the High Island Offshore System at West Cameron 167 and southeastward toward the Calumet processing plant in St. Mary’s Parish.
Col. Gulf – Erath
Deliveries into Columbia Gulf Transmission along its east and west laterals in Louisiana, south of Rayne.

Col. Gulf – Rayne
Deliveries into Columbia Gulf Transmission’s mainline between Rayne, Louisiana, and Corinth, Mississippi.

Florida Zone 1
Deliveries into Florida Gas Transmission’s system in Zone 1 from Station 2 in Refugio County, Texas, to Station 7 in Acadia Parish, Louisiana.

Florida Zone 2
Deliveries into Florida Gas Transmission’s system in Zone 2 from Station 7 in Acadia Parish, Louisiana, to Station 8 in East Baton Rouge Parish, Louisiana.

Florida Zone 3
Deliveries into Florida Gas Transmission’s system in Zone 3 from Station 8 in East Baton Rouge Parish, Louisiana, to the western (upstream) side of Station 12 in Santa Rosa County, Florida.

Henry Hub
Receipts and deliveries into and from Sabine Pipe Line’s Henry Hub in Erath, Louisiana, Interstate and intrastate pipelines that interconnect with Sabine’s intrahub transfer service include Acadian Gas, Bridgeline, Columbia Gulf Transmission, Gulf South Pipeline, Jefferson Island Pipeline, Southern Natural Gas, Natural Gas Pipeline Co. of America, Texas Gas Transmission, Sabine Pipe Line, Sea Robin Pipeline, Transcontinental Gas Pipe Line and Trunkline Gas.

NGPL-LA
Deliveries into Natural Gas Pipeline Co. of America between Compressor Station 344 in Jefferson County, Texas, to the terminus of the line in Vermillion Parish, Louisiana, at Erath and Henry Hub.

Pine Prairie Hub (daily market only)

Sonat
Deliveries into Southern Natural Gas Co. in the Louisiana and Texas portions of Zone 0.

Tenn 500 So LA Z1
Deliveries into Tennessee Gas Pipeline’s 500 leg in Zone L south of Station 534 in Purvis, Mississippi, and east of mainline valve 515 in Centerville, Louisiana, including Blue Water Header system deliveries into the 500 leg.

Tenn 800 So LA Z1
Deliveries into Tennessee Gas Pipeline’s 800 leg in Zone L in Louisiana south of Compressor Station 834 in Winnnsboro, including all points on the west side of mainline valve 515 in Centerville, on the Kinder-Sabine Line, on the Kinder-Natchitoches Line south of Station 40 in Natchitoches and Blue Water Header system deliveries into the 800 leg.

Tetco ELA
Deliveries into Texas Eastern Transmission in its ELA Access zone, between the Kosciusko, Mississippi, Compressor Station and the Venice System offshore, the Opelousas Compressor Station and the Monroe Compressor Station.

Tetco WLA
Deliveries into Texas Eastern Transmission in its WLA Access zone east of the Vidor, Texas, Compressor Station up to but not including the Opelousas, Louisiana, Compressor Station. The access zone also includes points on the lateral that extends south from the Gillis Compressor Station to the Cameron System offshore and the lateral that extends southwest from the Opelousas Compressor Station toward an interconnection with ANR Pipeline in St. Landry Parish.

TGT Zone SL
Deliveries to Texas Gas Transmission in its South Louisiana service zone, which extends south from the Pineville Compressor Station in Rapides Parish, Louisiana, through south Louisiana to points offshore Cameron, Vermillion, St. Mary and Terrebonne parishes.

Transco Station 45
Deliveries into Transcontinental Gas Pipe Line in Zone 2, east of Compressor Station 30 in Wharton County, Texas, up to and including Compressor Station 45 — the Zone 2 pooling point — in Beauregard Parish, Louisiana.

Transco Station 65
Deliveries into Transcontinental Gas Pipe Line in Zone 3, east of the compressor station in Beauregard Parish, Louisiana, up to and including the Compressor Station 65 pooling point in St. Helena Parish, Louisiana.
Trunkline ELA
Deliveries into Trunkline Gas Co. at onshore and offshore points south from the Patterson Compressor Station and points on the Patterson-to-Kaplan Compressor Station segment.

Trunkline WLA
Deliveries into Trunkline Gas Co. at points between but not including the Longville Compressor Station and the Kaplan Compressor Station. Deliveries into Trunkline at the Kaplan Station are included as are deliveries on the lateral extending south from Kaplan through Vermillion Parish.

Trunkline Zone 1A
Deliveries into Trunkline Gas Co. in Zone 1A, beginning at the discharge side of the Longville Compressor Station in Beauregard Parish, Louisiana, north to the suction side of the Dyersburg Compressor Station in Dyer County, Tennessee, and at Trunkline's Zone 1A pool.

TECHAS (SOUTH/EAST)

Carthage Hub
Deliveries to interconnecting pipelines in the vicinity of DCP Midstream’s Carthage Hub in Panola County, Texas. Among the interconnecting pipelines are Texas Eastern Transmission, Texas Gas Transmission, Atmos Pipeline-Texas, Enable Gas Transmission, Enable Mississippi River Transmission, Energy Transfer’s Tiger and ET Fuel pipelines; Gulf South’s Pooling Area 16, Tennessee Gas Pipeline, Kinder Morgan Tejas Pipeline, Enterprise Texas Pipeline and Southern Natural Gas Co.

Houston Ship Channel
Deliveries to end-users and adjacent service pipelines in the Houston Ship Channel industrial area of Harris, Chambers, Galveston and Liberty Counties in Texas. This location includes deliveries to the ICE’s Houston Ship Channel Pool meter on Energy Transfer’s Houston Pipeline System.

Katy Hub
Deliveries and receipts at the Enstor Katy Storage hub in Fort Bend and Waller Counties, Texas, and at pipeline interconnects in the Katy, Texas, area including on Natural Gas Pipeline, Tennessee Gas Pipeline, Oasis Pipeline, Transcontinental Gas Pipe Line, Dow Pipeline, Kinder Morgan Texas Pipeline, KM Tejas Pipeline, Houston Pipe Line, Duke Energy, Atmos Texas Pipeline, Gulf South Pipeline, Trunkline Gas Co. and DCP Midstream.

NGPL-South Texas
Deliveries into Natural Gas Pipeline Co. of America’s mainline in the South Texas zone, which extends from Jim Hogg County, Texas, north to Compressor Station 302 in Montgomery County, Texas.

NGPL-TexOk
Deliveries into Natural Gas Pipeline Co. of America in all areas of its Texok zone except the portion on the A/G Line. This location includes receipts at the Texok Gulf Coast Pooling Point but not at the Texok A/G Pooling Point.

Tenn Zone 0
Deliveries into Tennessee Gas Pipeline at all points on the 100 leg south of Compressor Station 40 in Natchitoches, Louisiana, including all points of receipt westward on the Carthage Line.

Tetco-East Texas
Deliveries into Texas Eastern Transmission in its “ETX” zone, which extends northward from the Huntsville, Texas, Compressor Station to the Little Rock, Arkansas, Compressor Station. The zone also includes the north Louisiana segment from the Joaquin Compressor Station to the Sharon Compressor Station.

Tetco-South Texas
Deliveries into Texas Eastern Transmission's “STX” zone on the 24 inch line from the Hagist Ranch in Duval County, Texas, to the Huntsville Compressor Station in San Jacinto County and on the 30 inch line from the US-Mexico border in Hidalgo County to the Vidor Compressor Station in Orange County.

TGT Zone 1
Deliveries into Texas Gas Transmission’s Zone 1, extending northward from Rapides Parish, Louisiana, to a point of intersection of the main transmission pipeline with the border between the counties of Lauderdale and Dyer, Tennessee. Zone 1 includes the North Louisiana, Fayetteville and Greenville lines.

Transco Station 30
Deliveries into Transcontinental Gas Pipe Line south from and including Station 30 in Wharton County, Texas.

Tres Palacios Hub (daily market only)
Receipts and deliveries at Tres Palacios Gas Storage's facilities in and around Matagorda County, Texas. Tres Palacios facilities include interconnects with Transcontinental Gas Pipe Line Co., Florida Gas Transmission, Tennessee Gas Pipeline, Texas Eastern
Transmission, Enterprise Texas Pipeline, Enterprise Intrastate L.P., Natural Gas Pipeline Co. of America, Kinder Morgan Tejas Pipeline, Central Texas Gathering System and Kinder Morgan’s Houston Central Complex.

TEXAS (WEST)

El Paso Permian
Deliveries into El Paso Natural Gas at points in its three Permian Basin pools in West Texas — the Waha pool (Waha plant south), Keystone pool (Keystone Station south to Waha) and the Plains Pool (Plains Station south to Keystone).

NNG Custer
Deliveries into Northern Natural in its Central Field Trading Pool area (MIDs 8-12) in western Oklahoma and the Texas Panhandle.

Transwestern E of Thoreau
Deliveries into Transwestern Pipeline Co.’s system east of Station 8 in Lincoln County, New Mexico, southwest of Station P-1 in Roosevelt County, New Mexico, and south of Station 9 in Chaves County, New Mexico, to the southernmost point on the pipeline in Pecos County, Texas.

Waha Hub
Deliveries into intrastate and interstate pipelines and header systems in the Waha vicinity of West Texas. Among the pipelines and facilities in the area are: El Paso Natural Gas, Northern Natural, Transwestern Pipeline, Oneok Westex Transmission (OWT), Natural Gas Pipeline Co., Oasis Pipeline, Enterprise Texas, DCP Midstream, Atmos Pipeline, Regency Energy Partners, Southern Union Gas Services’ Waha/Encina Header, Enstor Waha Storage Hub, Permian Highway Pipeline, Gulf Coast Express Pipeline, Agua Blanca, Whistler Pipeline, Kinder Morgan Texas and the Arena West Texas Pool (comprised of the Waha Header, Trans-Pecos Pipeline, OWT, Roadrunner Gas Transmission, and Comanche Trail Pipeline).

MIDCONTINENT

ANR SW
Deliveries into ANR Pipeline’s southwest system south and west of and including the SW Headstation in Greensburg, Kansas.

CenterPoint East
Deliveries into Enable Gas Transmission’s Neutral (or “Flex”) and North pooling areas in southeastern Oklahoma and northeastern Arkansas. This location does not include the South, West-1, West-2 or CP Line pooling areas.

CenterPoint West
Deliveries into Enable Gas Transmission in its West-1 and West-2 pooling areas in Oklahoma.

NGPL-MC
Deliveries into Natural Gas Pipeline Co. at all points and pools in Natural’s Midcontinent receipt zone south of Compressor Station 106 in Gage, Nebraska, to Station 112 in Moore County, Texas, and west and south of Compressor Station 801 in Carter County, Oklahoma.

Oneok
Deliveries into Oneok Gas Transportation’s mainline systems from production-gathering systems and interconnects in Oklahoma. Oneok operates a single price pool for all gas coming into the system.

Panhandle
Deliveries into Panhandle Eastern Pipeline Co. in its Texas, Oklahoma and Kansas field zone located south and southwest of the Haven, Kansas, Compressor Station. Deliveries at Haven are excluded.

Southern Star
Production area deliveries into Southern Star Central Gas Pipeline in Texas, Oklahoma and Kansas. This location does not include transactions in the market area or at the production area/market area boundary.

GREAT PLAINS

Emerson
Deliveries at the US-Canadian border interconnects between TC Energy’s TransCanada Pipeline and Great Lakes Gas Transmission at the Emerson 2 meter station at Emerson, Manitoba, and deliveries into Viking Gas Transmission from TransCanada at the Emerson 1 station.

NB Ventura TP
Deliveries into Northern Border Pipeline at its Ventura Transfer Point at Ventura, Iowa. This location includes trades for gas already moving on Northern Border that will remain on Northern Border as well as deliveries into Northern Border from Northern Natural Gas Co. at Ventura. It does not include deliveries to Northern Natural from Northern Border.
NGPL Amarillo (daily market only)
Deliveries to Natural Gas Pipeline of America in its Amarillo Mainline Receipt Zone, which extends northward on its Amarillo line from Station 106 in Gage County, Nebraska, to a point just south of Station 109 in southwestern Iowa.

NNG Demarc
Deliveries into Northern Natural Gas Co. at its Clifton Station demarcation point between the production (“field”) and market zone in Clay County, Kansas.

NNG Ventura
Deliveries into Northern Natural Gas Co. at Ventura in Hancock County, Iowa.

UPPER MIDWEST

Alliance
Deliveries from Alliance Pipeline at the tailgate of the Aux Sable plant in Will County, Illinois, to Natural Gas Pipeline, Midwestern Gas Transmission, ANR Pipeline, Vector Pipeline and Guardian Pipeline. Deliveries to Nicor and People’s Gas Light & Coke are excluded.

ANR ML7
Deliveries into ANR Pipeline in its Northern (ML-7) market zone “downstream” or north and east of the Sandwich, Illinois, Compressor Station and north and west of the Defiance, Ohio, Compressor Station.

Chicago Citygate
Deliveries to Peoples Gas Light & Coke, North Shore Gas, Northern Indiana Public Service Co. and Nicor Gas in the Chicago area.

Consumers
Deliveries to Consumers Energy city gates in Michigan.

MichCon
Deliveries to Michigan Consolidated Gas Co. city gates in Michigan.

REX Zone 3 Delivered
Deliveries from Rockies Express Pipeline to Zone 3 interconnects east of the Mexico Compressor Station in Audrain County, Missouri, and west of the Indiana/Ohio border. This price point does not include deliveries from REX to Panhandle Eastern Pipeline in Audrain County, Missouri, or deliveries from REX in the Lebanon, Ohio area.

SOUTHEAST

TETCO-M1
Deliveries into Texas Eastern Transmission’s 30 inch line in Zone M1 north of and including the Texas Gas interconnect at the Kosciusko, Mississippi, Compressor Station, to the Tennessee-Kentucky state line. M1 deliveries to Texas Eastern’s 24 inch line in Arkansas, Missouri and Illinois are excluded.

Transco Zone 4
Deliveries into Transcontinental Gas Pipe Line in Zone 4 north of Station 65 at the Louisiana-Mississippi border to the Georgia-South Carolina border, including receipts in Mississippi, Alabama and Georgia, and the Station 85 pool.

Transco Zone 5
Deliveries from Transcontinental Gas Pipe Line in Zone 5 from the Georgia-South Carolina border to the Maryland-Virginia border. This location includes deliveries from Transco to the Cove Point LNG pipeline at Pleasant Valley in Fairfax, Virginia.

APPALACHIA

Col. Gas App. Pool
Deliveries at Columbia Gas Transmission’s Interruptible Paper Pool (IPP or TECO pool). IPP pool transactions can originate from any point on the Columbia Gas system. This point is designed to exclude transactions delivered to Columbia Gas at interconnects and on-system points that are restricted from the IPP pool.

Eastern Gas North (formerly Dominion North)
Deliveries into Eastern Gas Transmission system at points north of the Valley Gate Junction in Allegheny County, Pennsylvania.

Eastern Gas South (formerly Dominion South)
Deliveries into Eastern Gas Transmission system at points south of the Valley Gate Junction in Allegheny County, Pennsylvania. The south-of–Valley Gate points are in Ohio, Pennsylvania, West Virginia and Virginia.

Lebanon Hub
Deliveries to and from pipelines in the Lebanon Hub in Warren County, Ohio. Pipelines include Eastern Gas Transmission, Panhandle Eastern, Rockies Express, ANR Pipeline, Texas Eastern Transmission and Texas Gas Transmission.
**Millennium Pipeline, East Receipts**
Receipts into Millennium Pipeline Co. from the Corning Compressor Station in Steuben County, New York, eastward to the Ramapo interconnect with Algonquin Gas Transmission in Rockland County, New York.

**Tennessee Zone 4-200 leg**
Deliveries to Tennessee Gas Pipeline at all points of receipt on the 200 line in Pennsylvania and Ohio as well as transactions at Tennessee's Station 219 pool in Mercer, Pennsylvania.

**Tennessee Zone 4-300 leg, receipts**
Deliveries into Tennessee Gas Pipeline, Zone 4-300 leg, from and including Station 315 in Tioga County, Pennsylvania, to and including Station 321 in Susquehanna County, Pennsylvania.

**Tennessee Zone 4 313 pool**
Includes deliveries into Tennessee Gas Pipeline's 300 leg between but not including Station 315 in Tioga County, Pennsylvania, and Station 219 in Mercer, Pennsylvania.

**Tetco M2 (daily and bidweek)**
Receipts on Texas Eastern Transmission’s 24 inch and 30 inch lines in market Zone 2. This includes receipts on the 30 inch line from the Tennessee-Kentucky state line to the suction side of Delmont Station in Westmoreland County, Pennsylvania, and to the discharge side of Station Site No. 22 in southwestern Pennsylvania; and on the 24 inch line from the Illinois-Indiana state line to the suction side of Bern Compressor Station in Lewisville, Ohio. The point also includes receipt pool transactions but excludes deliveries from Texas Eastern in M2 to other pipelines and facilities.

**Transco Leidy Line**
Deliveries to Transcontinental Gas Pipe Line’s Leidy Line downstream of the Leidy and Wharton storage facilities in Clinton and Potter Counties, Pennsylvania, to Transco’s Station 505 in Hunterdon County, New Jersey. This pricing location does not include transactions at the storage-related interconnects with Eastern Gas Transmission, National Fuel Gas Supply, UGI Storage or Tennessee Gas Pipeline.

**EASTERN CANADA**

**Dawn**
Deliveries at Union Gas’ Dawn Storage Hub interconnects in southern Ontario at the US-Canadian border. The Hub has interconnects with ANR Pipeline, Vector Pipeline, Michigan Consolidated Gas, Great Lakes Gas Transmission and Bluewater Gas Storage in eastern Michigan and TransCanada Pipeline.

**Iroquois**
Deliveries at the Waddington, New York, interconnection between TransCanada Pipeline and Iroquois Gas Transmission at the US-Canadian border.

**Niagara**

**NORTHEAST/MID-ATLANTIC**

**Algonquin**
Deliveries from Algonquin Gas Transmission to distributors and end-use facilities in Connecticut, Rhode Island and Massachusetts.

**Dracut**
Deliveries to Tennessee Gas Pipeline and National Grid from Maritimes & Northeast Pipeline and Portland Natural Gas Transmission at the Dracut and Haverhill, Massachusetts, interconnects.

**Iroquois Zone 2**
Deliveries from Iroquois Gas Transmission south of its Wright Compressor Station to the terminus of Iroquois at Hunts Point, New York.

**Tenn Gas Zone 6**
Deliveries from Tennessee Gas Pipeline on the 200 leg in Connecticut, Rhode Island, New Hampshire and Massachusetts, including the 200 leg pooling point.

**TETCO M3**
Deliveries from Texas Eastern Transmission in market Zone M3, extending eastward from the Delmont Compressor Station in Westmorland County, Pennsylvania, to all points of delivery in the zone including on the New Jersey–New York expansion line.

**Transco Z6 - Non-NY**
Deliveries from Transcontinental Gas Pipe Line in Zone 6 beginning at the Virginia–Maryland border to the Linden, New Jersey, interconnect with Texas Eastern Transmission. Not included are deliveries from Transco to New York area distributors downstream of
Linden or on the 30 inch and 42 inch lines extending northeastward from the Station 210 pooling point in Mercer County, New Jersey.

**Transco Z6 - NY**
Deliveries to New York area distributors from Transcontinental Gas Pipe Line northeast of the Linden, New Jersey, interconnect with Texas Eastern Transmission and northeast of but not including the Station 210 pooling point in Mercer County, New Jersey.

**ROCKIES**

**Cheyenne Hub**
Deliveries to and from pipelines at the Rockies Express Cheyenne Hub in Weld County, Colorado, including REX, Tallgrass Interstate Gas Transmission, Trailblazer Pipeline, Cheyenne Plains Gas Pipeline, Colorado Interstate Gas, Wyoming Interstate Co. and Public Service Co. of Colorado.

**CIG**
Deliveries into Colorado Interstate Gas Co. at points west of the Cheyenne Hub in Weld County, Colorado, including points in Colorado, Utah and Wyoming, and not including deliveries to CIG on the lines south of Cheyenne.

**Kern River / Opal**
Transactions at the Opal Hub in Lincoln County, Wyoming, in Kern River Gas Transmission Co.’s Muddy Creek receipt pool, including at Opal, Pioneer, Hams Fork, Rendezvous, Overland Trails, Robertson Creek, Northwest Pipeline and Colorado Interstate Gas. Since Williams, the operator of the Opal Hub, allows gas traded at Opal to be delivered to any interconnecting pipeline, trades done at Opal that are not nominated for delivery to a specific pipeline are included.

**NW Rockies**
Deliveries into Northwest Pipeline at points in its Rocky Mountain, Wyoming, and Piceance receipt pools. These points are located south of Northwest’s Kemmerer Station in Lincoln County, Wyoming, and north of Moab Station in San Juan County, Utah.

**Questar**
Deliveries into Dominion Energy Questar Pipeline’s north and south systems in Wyoming, Utah and Colorado.

**White River Hub**
Deliveries to or from interconnects and pools that make up the White River Hub in Rio Blanco County, Colorado. The hub is a joint venture between Enterprise Products Operating and Questar Pipeline Co. As of March 2017, the hub operated interconnects with Rockies Express Pipeline, Wyoming Interstate, Colorado Interstate Gas, TransColorado Gas Transmission, Northwest Pipeline, Questar Pipeline and Enterprise Gas Processing.

**SAN JUAN BASIN**

**El Paso Bondad**
Deliveries into El Paso Natural Gas at the Bondad Compressor Station and at Bondad pool points in La Plata County, Colorado.

**El Paso San Juan**
Deliveries to El Paso Natural Gas at points south of the Bondad Compressor Station in La Plata County, Colorado, through San Juan County to the Bluewater Station in McKinley County, New Mexico, and to the Window Rock Station in Apache County, Arizona.

**Transwestern Pipeline, San Juan**
Deliveries to or from Transwestern Pipeline Co. at Transwestern’s San Juan pool and Blanco Hub interconnects in La Plata County, Colorado, and San Juan and McKinley Counties, New Mexico.

**PACIFIC NORTHWEST/WESTERN CANADA**

**AECO**
Deliveries into TC Energy’s Alberta system (NOVA) under its NOVA Inventory Transfer service. The “AECO Hub” or AECO-C is a virtual pricing point that refers to NIT transactions throughout the Alberta system.

**Empress**
Transactions at the Empress–McNeil point at the Alberta–Saskatchewan border in Canada where TC Energy’s NOVA Gas Transmission system interconnects with TC Energy’s Canadian Mainline and its Foothills System.

**Kingsgate**
Deliveries into TC Energy’s Gas Transmission Northwest system at the US–Canadian border in Boundary County, Idaho.

**MALIN**
Deliveries into Pacific Gas & Electric Co.’s 400 and 401 lines (Redwood Path) at the Oregon–California border at Malin, Oregon. Delivering pipeline are Gas Transmission Northwest and Ruby Pipeline.
NW Sumas
Deliveries at the US-Canadian border interchange between Northwest Pipeline and Westcoast Energy at Sumas, Washington, and Huntingdon, British Columbia.

Stanfield
Deliveries at the Stanfield, Oregon, interconnection between Northwest Pipeline and Gas Transmission Northwest in Umatilla County.

Westcoast Station 2
Deliveries at Westcoast Energy’s Station 2, just west of Chetwynd, British Columbia. Station 2 is the dividing point between the North and South sections of Westcoast’s transmission system.

CALIFORNIA
El Paso South Mainline (daily market only)
Deliveries on El Paso’s south mainline at points between the Cornudas Compressor Station in West Texas up to but not including deliveries to SoCal Gas at Ehrenberg, Arizona.

Kern River Delivered (daily market only)
Deliveries from Kern River at the west end of its pipeline in Nevada (Fuel Zone 11) and California (Fuel Zone 12) downstream of the Dry Lake Compressor Station in Clark County, Nevada. Kern River deliveries to PG&E at Daggett and SoCal Gas at Wheeler Ridge and Kramer Junction are excluded from this location as those deliveries are included in the PG&E South and SoCal Border locations, respectively.

Kern — Wheeler Ridge
Deliveries into Southern California Gas Co. from Kern River at Wheeler Ridge in Kern County, California.

PG&E Citygate
Deliveries to Pacific Gas and Electric Co.’s local distribution system in Northern California.

PG&E South
Deliveries to Pacific Gas and Electric’s 300 transmission line on its “Baja Path” in Southern California. Interconnects include deliveries from El Paso Natural Gas at Topock, Transwestern Pipeline at Topock, Kern River Gas Transmission at Daggett and the High Desert Lateral, Southern California Gas at Kern River Station, and Questar’s Southern Trails Pipeline at Essex.

SoCal Border
Deliveries to Southern California Gas Co. from El Paso Natural Gas, Transwestern Pipeline, Questar’s Southern Trails, Kern River Gas Transmission, Pacific Gas and Electric and in-state California production. Delivery points include: Topock, Needles, Blythe, Ehrenberg, Wheeler Ridge, Kramer Junction, Kern River Station, Pisgah and Daggett.

SoCal Citygate
Deliveries to and from Southern California Gas City gate pool, a virtual trading point on the distributor’s system for holders of city gate pool contracts, including storage transactions to and from the city gate pool.