

# NGI's

## *Price Index Methodology Point-By-Point Descriptions & Code of Conduct Statement*

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**NOTE:** This methodology refers to the natural gas spot market prices that appear in NGI's series of "Gas Price Index" newsletters, which include *NGI's Daily Gas Price Index*, *NGI's Weekly Gas Price Index*, and *NGI's Bidweek Survey*. This document neither refers to nor includes the Shale Prices Indices (SPI) that NGI publishes in its *Shale Daily* publication nor any data series published in *NGI's Mexico GPI*.

The Shale Price Index Methodology is available here: <http://www.naturalgasintel.com/ext/resources/Shale-Daily/Shale-Methodology.pdf>

Also, the Mexico GPI Methodology is available here: <http://www.naturalgasintel.com/ext/resources/Mexico-GPI/MGPI-Price-Methodology.pdf>

## About Intelligence Press, Inc.

Intelligence Press, Inc. (herein referred to as NGI) launched the first of its North American natural gas products in 1981, with the inaugural issue of its flagship *Natural Gas Intelligence* newsletter. It was in that publication that NGI initiated the U.S. natural gas industry's first spot market price table in 1983. In response to the further deregulation of the industry, NGI expanded on that seminal price table in 1988 with the creation of its *NGI's Weekly Gas Price Index* and *NGI's Bidweek Survey* newsletters. NGI began publishing its *Daily Gas Price Index* newsletter in 1993, and more recently, created *NGI's Shale Daily* in 2010. For more information about our newsletters, please visit [naturalgasintel.com](http://naturalgasintel.com), or call us at (703) 318-8848.

## Code of Conduct

Intelligence Press Inc., more generally known as *Natural Gas Intelligence* or NGI, operates under the journalism code of ethics, which requires that the personnel creating and compiling the content of our publications and management have no financial interest in the companies on which they report. NGI also warrants that its editorial and price survey employees and management do not trade in the natural gas or any other commodity markets, nor do we trade the stocks, bonds, or other securities of companies engaged in the energy industry.

Our journalists and employees strive to maintain the highest standards of truth, accuracy, fairness and impartiality. This means double-checking facts, correcting errors as soon as we are able, and striving to tell all sides of a story as equally as possible.

NGI also has a record of meeting deadlines and never failing over more than 30 years to publish a scheduled daily or weekly issue. In the real-time world, NGI strives to stay abreast of the news with timely reports over the Internet.

## Confidentiality

In order to gain the broadest possible market participation in our data collection process, and to protect our sources' competitive standing, NGI pledges not to reveal the confidential data that it receives, nor the source of any price information, nor will it reveal the parties involved in any transaction to any outside organization, except to the extent that it is legally required to do so (i) in response to any summons, subpoena, request of governmental or regulatory authority, or otherwise, or (ii) in order to comply with any applicable law, order or regulation, (hereafter, a "Required Disclosure"). NGI, before seeking to disclose data in a Required Disclosure, shall to the extent legally permissible notify the Data Provider prior to making such disclosure in order to permit the Data Provider an opportunity to seek an appropriate protective order or grant a waiver of compliance with the provisions of this agreement.

Data sent to NGI price editors at the [prices@naturalgasintel.com](mailto:prices@naturalgasintel.com) e-mail address are archived on a daily basis. Only NGI's price survey staff and management have access to the confidential data submitted. Those personnel with access to the data are required to sign pledges of confidentiality restricting the use to purposes of evaluation, compilation, or editorial review of various price index surveys for publication (in aggregated form only and

without disclosing the source thereof). If you have any questions or would like to review NGI's Confidentiality Agreement, please email us at [prices@naturalgasintel.com](mailto:prices@naturalgasintel.com) or call 1-800-427-5747.

A copy of NGI's Confidentiality Agreement is available at <http://naturalgasintel.com/ext/resources/files/NGI-Confidentiality.docx>

## What Do the NGI Natural Gas Spot Market Indexes Represent?

The spot market prices that appear in the various NGI's "Gas Price Index" publications (*NGI's Bidweek Survey*, *NGI's Weekly Gas Price Index*, and *NGI's Daily Gas Price Index*) represent the market value of natural gas in the wholesale market for a particular location, over a specified period of time. Most of our indexes are delivered to an interstate or an intrastate pipeline, but some are delivered to a "citygate" location that is typically located farther downstream along a particular pipeline system.

Our bidweek indexes represent the price of gas that will flow every day during the forthcoming calendar month ("baseload" transactions), while our Daily prices measure gas flows up to and including the next trading day ("day-ahead"). Please see the section entitled "Over What Time Period Does NGI Collect Data?" for more detail.

*The data upon which we derive our indexes are a combination of negotiated fixed priced transactions and physical basis trades (bidweek only) that are the product of arms-length transactions between non-affiliated counterparties.* We obtain these data from two main sources:

### 1. Data from companies who are principals to the trade

NGI receives data from companies spanning multiple sectors of the natural gas industry. This includes natural gas producers, marketers, banks, power generators, utilities and LDCs.

### 2. Data from the IntercontinentalExchange (ICE)

In March 2007, NGI reached an agreement with the IntercontinentalExchange (ICE) that increased the volume of data available for use in the formulation of NGI's natural gas price indexes. Under this agreement, which took effect January 1, 2008, NGI and ICE devised a protocol that maximizes the amount of relevant data available for use in NGI indexes while striving to match and remove duplicative deal reports.

Essentially, this protocol enables NGI to include in its index determination process, natural gas transactions from the ICE trading platform for those companies not already reporting to NGI's price survey directly. Most importantly, the process meets the stringent confidentiality concerns of both ICE participants and NGI's data providers. No change in reporting processes or procedures is necessary for those companies who already participate in NGI's price survey.

## Over What Time Period Does NGI Collect Data?

As detailed below in more detail, NGI follows the IntercontinentalExchange (ICE) "next day physical natural gas trading calendar" to discern what constitutes a "trading day." NGI has posted its publishing calendar here: <http://www.naturalgasintel.com/ext/resources/NGI-Calendar.pdf>

### *For Bidweek*

Monthly bidweek data include transactions done at the end of each month for gas to be delivered for the entire following month. This bidweek trading period includes the last five trading days of a particular month, where a trading day is defined as any day the IntercontinentalExchange (ICE) is trading physical natural gas. Historically, this also coincided with the days that the CME (formerly NYMEX) was also trading natural gas futures, but in recent years the move to electronic and overnight trading has allowed the CME to offer futures trading on days that physical "cash" market participants are not trading. One such example is the "Black Friday" holiday on the Friday after Thanksgiving. CME offers futures trading on this day, but ICE does not offer physical natural gas next-day trading. Because it is not appropriate for NGI to attempt to include in its 5-day survey period data from a trading day on which no deals are transacted, NGI has adopted the ICE trading calendar. If you have questions about which days comprise bidweek, please give us a call at 703-318-8848.

### ***For Daily***

Subject to the ICE trading calendar, NGI includes in its survey gas that is traded for “next day” flow. Nominations for “next day” flow must be made by the nominating party by 2p.m. Eastern time on the calendar day one-day before the nominated gas is scheduled to start flowing in order to be included in our *Daily* indexes. Note this 2p.m. deadline reflects the implementation of FERC Order 809, which moved the Timely Nomination Cycle from 12:30p.m. to 2p.m. effective April 1, 2016.

In most cases, our *Daily* indexes capture gas flows for the next calendar day. For example, day-ahead gas that trades on a Monday for that next day (Tuesday) would comprise the indexes that appear in that next Tuesday edition of *Daily Gas Price Index*. On Fridays, gas typically trades for Saturday, Sunday, and Monday flow, so the prices that appear in our Monday edition would include gas traded on Friday for all three of those days. If that Monday were a holiday, then we would publish *Daily* prices on Tuesday, and that edition of *Daily GPI* would include gas traded on Friday for Saturday through Tuesday delivery. The same concept applies when a holiday falls in the middle of a particular week. If, for example, Wednesday were a holiday, then that Thursday edition of *Daily GPI* would include gas traded on Tuesday for Wednesday and Thursday delivery.

### ***For Weekly***

The weekly prices that appear in *NGI's Weekly Gas Price Index* are a simple average of the indexes published in our *Daily* series covering the listed survey dates.

## **Indications of Volume of Trading and Number of Deals**

In September 2004, NGI began publishing volumes and number of deals along with the ranges and averages of our indexes, which as described later in this document are volumetric weighted averages. For both the daily series that appears in *NGI's Daily Gas Price Index* and the bidweek series that appears in *NGI's Bidweek Survey*, the deals column represents the number of transaction reports used by NGI in the calculation of the price, and the volume column indicates the sum of the volume of those deals, expressed in thousand MMBtus per day.

In the case of the weekly series published in *NGI's Weekly Gas Price Index*, the deals column represents the sum of transactions published with the daily series for the appropriate survey dates. Likewise, the volume column represents the sum of the volumes published in our daily series covering the listed survey dates. Please note that the volume published in the weekly series is neither a per week volume nor a per day volume, but rather a sum of daily volumes collected during the survey period and used in the calculation of the individual daily indexes.

### ***A Note About Volumes***

The nature of our survey is such that we attempt to collect, and include in our index calculations, reports of both the buy and sell sides of an individual transaction. The figures published in the volume column of our price table represent the volume used in the index calculation process and should not be construed as the volume transacted or flowing at that location. Theoretically, if we were to receive perfect data for a given location and had received reports from every buyer and every seller, our volume figure would be exactly twice the volume of gas transacted at that particular location. We understand that other publishing companies tracking the natural gas marketplace report volume in a similar manner.

With the inclusion of trading data from ICE in January 2008, the quantity of data available for use in the determination of NGI's price indexes has in many cases resulted in marked increases in both the volumes and number of deals published alongside our ranges and averages as compared with prior to January 1, 2008. However, these increases are *not* because of counting trading data from the same company twice. Rather, these increases are a reflection of the data from the ICE trading platform for those companies not already reporting to NGI directly.

## **How Does NGI Convert Raw Price Reports into Published Indexes?**

Our first step is to determine to which of our published indexes each price report applies. From there, we review the data to ensure there are no obvious reporting errors such as typos or missing data, and that the data are for gas flows for the same period that our indexes intend to measure (see “Over What Time Period Does NGI Collect Data?”). If any of the submitted data fail either of these first two tests, we may exclude them from our survey, or we may flag them for further investigation.

After determining the data to be considered in each of the individual indexes, NGI then examines these datasets individually to identify statistical outliers and irregular data.

## What Are Outliers, or “Irregular” Data?

Our goal at NGI is to take a “hands-off” approach with respect to data by incorporating as many reported transactions to us as possible, and to do so on an “as-is” basis to the extent we are able. However, at times we receive outliers, or “irregular data,” that may need to be excluded from the datasets, in order to preserve the integrity and accuracy of our published spot market prices.

Irregular data may be either price or volume levels that are not confirmed by another source, or transactions that do not meet the reporting guidelines we have listed throughout this methodology. Reports that were flagged in the initial processing of the data are reviewed for their appropriateness, applicability, and reasonableness, and may be excluded at the discretion of the editor.

Examples of (including, but not limited to) irregular data we may exclude from the data survey:

Reason	Why Exclude?
<b>Unconfirmed transactions that are more than three (3) standard deviations from the mean</b>	Including an abnormal and unconfirmed transaction may artificially skew the index higher or lower.
<b>Retail transactions</b>	These do not comply with our attempt to measure the wholesale price of gas.
<b>Deal includes a credit adder</b>	Such deals usually include a significant premium to compensate a party for the risk of transacting with a less-than-creditworthy counterparty. However, this type of premium is not indicative of the market value of the gas being transacted.
<b>Trades between affiliated parties</b>	These are not arms-length transactions.
<b>Transactions completed outside of our survey window</b>	We must adhere to a strict and consistent time frame for collecting data, otherwise we would introduce measuring bias.
<b>Reports flagged by our data contributors as being irregular or out of the market</b>	Most of our exclusions fall into this category.
<b>Deals that do not comply with the definition of each index</b>	We will only include those transactions that fall within the portions of a pipeline that make up the definition of each particular index. For example, Transco Zone 2 deals are not part of our Transco Zone 1 listing.

## How Does NGI Calculate the Published Indexes?

### *Individual Pipelines/Hubs/Citygates (Daily GPI)*

Once we have removed any irregular, inappropriate or non-applicable transactions from our database, we can then calculate the index for each of our locations, which we do using a volumetric weighted average methodology. This can be expressed by the following formula:

$$A = \frac{\sum P \cdot V}{TV}$$

where: A = average price, P = price per individual transaction, V = volume of each individual transaction,  $\sum P \cdot V$  = cumulative total of each transaction multiplied by its volume, TV = total volume

Example:

### *Weekly Prices*

The prices that appear in our *Weekly Gas Price Index* publication are a simple average of the day-ahead prices that were traded during the previous Monday through Friday for flow during the same month as those trade dates.

For example, assume the Monday, December 15 issue of *Weekly Gas Price Index* showed for Carthage (in East Texas) a range of \$3.390-\$3.570, an average of \$3.475, a change of -\$0.065, volume of 671, and deals of 97. The range reflects the low and high trades into Carthage from the previous week of trading (Monday, December 8 through Friday, December 12), while the \$3.475 average is a simple average of the five individual prices from that previous trading week. The -\$0.065 change is the difference between the \$3.475 average from this week and the average published the previous week. Finally, the respective 671 and 97 volumes and deals totals are the simple summation of the individual volumes and deals from the five trading days for the previous week.

If the previous week had a holiday, then our weekly average would only reflect trading for the days in which there was actual trading. For example, if Monday, December 8 were a holiday, then our weekly trade range for weekly prices published on Monday, December 15 would be Tuesday, December 9 through Friday, December 12.

The regional and National averages that appear in *Weekly Gas Price Index* are calculated in exactly the same manner as the Carthage example described in this section.

***How Does NGI Calculate Weekly Prices During the Last Week of a Month, When Day-Ahead Flow Months Are Different?***

Because we do not commingle different flow months in our weekly prices, during the last week of the month, which will likely feature day-ahead trading for both gas flow during the end of the current month and the beginning of the following month, we must choose to list prices for only one of these two periods. Our preference is to publish prices for the next month, since that information is fresher. *However, we will only do so if there are at least two or more trading days for the next day-ahead flow month during the previous week.* Otherwise, our weekly prices for that week will incorporate trades for flow during the just completed month.

For example, assume the previous week ran from Monday, April 27 through Friday, May 1. Day-ahead gas would have traded as follows:

<b>Monday, April 27</b>	<b>Tuesday, April 28</b>	<b>Wednesday, April 29</b>	<b>Thursday, April 30</b>	<b>Friday, May 1</b>
Day-Ahead Flow Date(s): April 28	Day-Ahead Flow Date(s): April 29	Day-Ahead Flow Date(s): April 30	Day-Ahead Flow Date(s): May 1	Day-Ahead Flow Date(s): May 2-4

Because gas traded for the following month (May) for two or more days during this previous week, our weekly prices for this week would include the two days of trading for May flow. However, if gas for May delivery only traded for one day during this week, then our weekly price for this week would have reflected gas traded for the final few days of April.

***A Note About Rounding Rules***

For our fixed price averages, which represent the majority of prices that appear in our various newsletters, NGI rounds to the nearest half-cent. For our *Bidweek Basis Price Survey*, we round prices to the nearest quarter-cent (\$.0025).

For ranges, NGI rounds down on the low and up on the high. For example, a low observation of \$3.219 would produce a low for the range of \$3.215 while a high observation of \$3.281 would produce a high for the range of \$3.285. This rounding rule will not impact the computation of the average.

Published volumes are always rounded up to the nearest 1,000 MMBtu. For example, a total volume of 67,200 MMBtu will be rounded to 68,000 and will appear in the volume column of our publications as 68.

***Error Corrections***

Because we understand that the market relies on the certainty provided by NGI indexes and that trading decisions are made based on these indexes the moment they are published, NGI will only correct errors within three (3) business days of the posting of the original index. Although the ultimate decision will be made after taking into account factors such as the nature of the error and who was responsible, it would be unlikely that NGI would issue a correction unless the error results in a material change to the index posting.

## Guide to Providing Data to *Natural Gas Intelligence*

To improve the quality of the natural gas price survey data and to comply with the FERC's July 2003 policy statement, NGI requests that data providers adhere to the following guidelines:

- Report all negotiated, fixed-price, non-affiliate natural gas transactions for both daily “day-ahead” and monthly (bidweek) “baseload” delivery.
  - Daily data include all fixed price deals done each business day (where a business day is any day the IntercontinentalExchange offers trading of daily/next day physical gas) before the 2:00 p.m. Eastern pipeline nomination deadline for gas to flow the next day or over the weekend, as is the case on Fridays.
  - Monthly bidweek data include transactions done at the end of each month for gas to be delivered for the entire following month. A five-day bidweek trading period includes the last five trading days of a particular month, where a trading day is defined as any day the IntercontinentalExchange (ICE) is trading physical natural gas. If you have questions about which days comprise bidweek, please give us a call at 703-318-8848.
  - Physical basis deals done during bidweek should be denoted as such and included.
- Each transaction should be listed separately and should include the following:
  - trading location
  - meter number and/or DRN number, if at all possible
  - transaction date
  - beginning flow date
  - ending flow date (may be the same as beginning flow date)
  - volume
  - price (\$/MMBtu or C\$/Gigajoule for Canadian trading locations)
  - buy/sell indicator
- Provide data from a central, mid- or back-office reporting source within the company.
- Data providers should make all reasonable efforts to send price data to [prices@naturalgasintel.com](mailto:prices@naturalgasintel.com) by 4:00 p.m. Eastern on the business day before the beginning flow date of the data being submitted. Data submitted after 4:00 p.m. Eastern will be included at the editor's discretion. Because we understand that data providers may be submitting data to more than one index provider, NGI does not impose any specific file format or specificity pertaining to how the data are arranged within the file.
- List the contact information of data provider representatives that can answer questions about the data.
- If the data provider becomes aware of errors or omissions to submitted data within three (3) business days, the data provider should make reasonable efforts to notify NGI of those errors or omissions. To submit a correction, please e-mail [prices@naturalgasintel.com](mailto:prices@naturalgasintel.com) with a corrected data submission in the same or similar format as the original submission.

NGI is willing to enter into an agreement protecting the confidential nature of the price data. For a copy of this document, or for more information on the data submission process, please contact Dexter Steis at 703-318-8848 or Patrick Rau at 347-385-8412.

**POINT-BY-POINT INDEX DESCRIPTIONS & NGI POINTCODES**  
**(LISTED BY GEOGRAPHICAL REGION AS THEY APPEAR IN NGI'S VARIOUS**  
**GAS PRICE INDEX NEWSLETTERS)**

**NOTE: Point names shaded in green represent material changes we made to our methodology on or after April 1, 2020. The previous version of this methodology was dated August 1, 2019. NGI's data pointcodes are listed in parentheses under each index name.**

**South Texas**

Index	Start Dates	Description
<b>Agua Dulce (STXAGUAD)</b>	<i>Daily GPI (6/11/96) Weekly GPI (6/1/98) Bidweek (Sep-97)</i>	The Corpus Christi area has emerged as a center for natural gas exports via both pipeline and LNG, and our revised Agua Dulce index reflects this. In addition to the Agua Dulce Hub in Nueces County, TX itself, our index now includes a.) the Banquete Hub in Nueces County, TX, and b.) transactions into the Corpus Christi Pipeline in San Patricio County, TX. As of April 2020, pipelines that deliver into or haul gas from the Agua Dulce Hub include Energy Transfer's Lobo Pipeline, Enterprise Intrastate, Enterprise Texas, Gulf Coast Express, Houston PipeLine, Kinder Morgan Tejas, NET Mexico, NGPL, Tennessee, Texas Eastern, Transco, and Valley Crossing. The Banquete Hub is located slightly east of Agua Dulce, also in Nueces County, TX, includes several Kinder Morgan pipelines. Finally, the Corpus Christi Pipeline accepts deliveries at Sinton in San Patricio County, TX from Enterprise Products, Kinder Morgan Tejas, NGPL, Tennessee, and Transco.
<b>Florida Gas Zone 1 (STXFGTZ1)</b>	<i>Daily GPI (9/1/99) Weekly GPI (9/6/99) Bidweek (Sep-99)</i>	Includes deliveries into Florida Gas Transmission Zone 1. FGT's Zone 1 starts in Refugio County, TX and extends to Compressor Station 7 in the City of Eunice in Acadia Parish, LA.
<b>NGPL S. TX (STXNGPL)</b>	<i>Daily GPI (6/11/96) Weekly GPI (6/20/88) Bidweek (Jul-88)</i>	This point includes deliveries into NGPL's South Texas Receipt & Delivery Zone, which includes all points southwest of Compressor Station 302 in Montgomery County, TX down toward the Texas/Mexico border.
<b>Tennessee Zone 0 South (STXTENN)</b>	<i>Daily GPI (6/11/96) Weekly GPI (6/20/88) Bidweek (Jul-88)</i>	Tennessee Zone 0 South begins near the Texas/Mexico border in McAllen County, TX and ends at the East Bernard (Station 17) Compressor Station in Wharton County, TX. Tennessee Pipeline split what was previously Zone 0 into Zone 0 South and North effective November 1, 2009.
<b>Texas Eastern S. TX (STXTETCO)</b>	<i>Daily GPI (6/11/96) Weekly GPI (6/20/88) Bidweek (Jul-88)</i>	Comprised of transactions into the Texas Eastern "Access Zone S.TX." Includes 1.) the line that runs from the Hagist Ranch Compressor Station to the suction side of the Huntsville, TX Compressor Station, 2.) the section that begins near the U.S/Mexico border and extends along the Gulf Coast of Texas to the suction side of Vidor, TX, and 3.) the lateral that connects the two sections referenced above between Provident City and Blessing.
<b>Transco Zone 1 (STXST30)</b>	<i>Daily GPI (4/27/98) Weekly GPI (6/20/88) Bidweek (Jul-88)</i>	Our Transco Zone 1 index includes Station 30 in Wharton, TX, and all points along the three pipeline segments that connect into Station 30. Those are the McMullen lateral that begins in McMullen County, TX, the mainline segment and Padre Island Offshore System, and the offshore and mainland portion of the Central Texas Gathering System that hits land in Matagorda County, TX. We changed the name of this index from Station 30 to Zone 1 in October 2010.
<b>Tres Palacios (STX3PAL)</b>	<i>Daily GPI (10/22/13)<sup>8</sup> Weekly GPI (5/1/17) Bidweek (N/A)</i>	Crestwood Equity Partners and Brookfield's Tres Palacios Gas Storage facility is located in Matagorda County, TX, and is connected to Kinder Morgan's Houston Central facility, Tennessee Gas Pipeline, Transco, NGPL, CTGS, Kinder Morgan Tejas, Florida Gas Transmission, Enterprise Intrastate/HPL, Texas Eastern Transmission, and Gulf South.



## East Texas

Index	Start Dates	Description
<b>Atmos Zone 3 (ETXATMOSZ3)</b>	<i>Daily GPI (4/25/17)</i> <i>Weekly GPI (5/1/17)</i> <i>Bidweek (N/A)</i>	Primarily drawing production from the Barnett Shale, along with the periphery of the Permian Basin, Atmos Zone 3 stretches from Nolan County to Ellis County, TX, and includes the northern branch from Taylor County that extends into Knox County, TX.
<b>Carthage (ETXCARTH)</b>	<i>Daily GPI (6/11/96)</i> <i>Weekly GPI (9/6/99)</i> <i>Bidweek (Sep-99)</i>	Deliveries into interconnecting pipelines at the Carthage Hub in Panola County, TX. Includes gas from the tailgate of DCP's combined 780 MMcf/d processing plants at the Carthage Pipeline, along with deliveries into connecting pipelines at the Hub. The pipelines with receipt capacity at Carthage include Atmos Pipeline, CenterPoint Energy, CenterPoint Energy CP Line, Energy Transfer Fuel System, Enterprise Texas Pipeline, Gulf South, Kinder Morgan Tejas Pipeline, Mississippi River Transmission, Southern Natural, Tennessee Gas Pipeline, Texas Eastern Transmission, and Texas Gas Transmission. Also includes deals at Gulf South's Area 16.
<b>Golden Triangle (ETXGLDTRI)</b>	<i>Daily GPI (10/22/13)<sup>8</sup></i> <i>Weekly GPI (5/1/17)</i> <i>Bidweek (N/A)</i>	Southern Company's Golden Triangle Storage facility is located in Jefferson and Beaumont Counties, TX, and is part of the Spindletop salt dome that first produced oil and gas in 1901. The facility connects with Energy Transfer, Florida Gas Transmission, Golden Pass Pipeline, KM Texas, and Texas Eastern Transmission.
<b>HPL – East Texas Pool (ETXHPL)</b>	<i>Daily GPI (4/25/17)</i> <i>Weekly GPI (5/1/17)</i> <i>Bidweek (N/A)</i>	Transactions within the East Texas pool of Houston Pipe Line.

## East Texas

Index	Start Dates	Description
<b>Houston Ship Channel (ETXHSHP)</b>	<i>Daily GPI (11/4/93)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	<p>NGI's Houston Ship Channel Index is comprised of transactions within the "Houston Pipe Line Pool." Our index does not include deals at the "Golden Triangle" area of Beaumont, Port Arthur, and Orange in Jefferson and Orange Counties, TX, nor does it include transactions at the refinery hub in Texas City, which is located in Galveston County, TX. We defer to the locations that ICE includes in its definition of the HPL Pool, which ICE lists as the following meter name and numbers:</p> <ul style="list-style-type: none"> <li>• Air Liquide Bayport 988001</li> <li>• Air Products La Porte 981281</li> <li>• Air Products Pasadena Chemical 981418</li> <li>• Celanese Clear Lake 988018</li> <li>• Chevron Phillips Cedar Bayou 981024</li> <li>• Dow Deer Park 981506</li> <li>• Enterprise Mont Belvieu 981326</li> <li>• Equistar Channelview North 981373</li> <li>• Equistar Laporte Polymers 981553</li> <li>• ExxonMobil Baytown Refinery 981631</li> <li>• ExxonMobil Plastics Mont Belvieu 981379</li> <li>• Gulf Coast Fractionators 981389</li> <li>• Ineos Chocolate Bayou 981686</li> <li>• Ineos Deer Park 983409</li> <li>• Lanxess Baytown 981550</li> <li>• LCY Elastomers 981531</li> <li>• LyondellBasell Houston Refinery 981063</li> <li>• OptimAltura Channelview Cogen 981563</li> <li>• Oxy Vinyls Battleground Rd 981485</li> <li>• Oxy VinylsLaPorte 981444</li> <li>• San Jacinto Cogen 981554</li> <li>• Shell Deer Park Cogen 981581</li> <li>• Shell Deer Park East 981060</li> <li>• Shell Deer Park South 981095</li> <li>• Targa Mt Belvieu 981084</li> <li>• Valero Houston Refinery 981394</li> <li>• Valero Premcor 981511</li> <li>• ICE HSC HPL Pool meter 987342</li> </ul>
<b>Katy (ETXKATY)</b>	<i>Daily GPI (6/11/96)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Includes transactions into both the Enstor Katy Storage Hub (Enstor Pool) and the DCP Midstream Katy Hub. The two facilities are located approximately three miles from each other, and both are roughly 20 miles southwest of Houston, in Katy, TX. Connecting pipelines at the two facilities include Atmos, Duke Energy, Gulf South, HPL, Kinder Morgan Texas, Kinder Morgan Tejas, NGPL, Oasis, Tennessee, Transco, and Trunkline.
<b>Maypearl (OTHMYPRL)</b>	<i>Daily GPI (4/25/17)</i> <i>Weekly GPI (5/1/17)</i> <i>Bidweek (N/A)</i>	Includes all interconnects with the Energy Transfer system at Maypearl in Ellis County, TX.
<b>Moss Bluff (ETXMBSF)</b>	<i>Daily GPI (10/22/13)<sup>8</sup></i> <i>Weekly GPI (5/1/17)</i> <i>Bidweek (N/A)</i>	The Moss Bluff Hub features natural gas storage facilities in Liberty County Texas, and features pipeline connections with Enterprise (Channel), KM Tejas, Midcon, NGPL, and Texas Eastern Transmission.

## East Texas

Index	Start Dates	Description
<b>NGPL TexOk (ETXNGPL)</b>	<i>Daily GPI (6/11/96) Weekly GPI (6/20/88) Bidweek (Jul-88)</i>	Gas delivered into NGPL's TexOk Receipt & Delivery Zone. This zone is comprised of portions of NGPL's mainline (Gulf Coast) and A/G lines. The GC segment of this zone starts at the Texas/Louisiana border in Jefferson County, TX, moves west to Station 302 in Montgomery County, TX, then veers northeast to the Texas/Arkansas border in Cass County, TX. The GC portion includes receipts in Jefferson, Panola, Marion, Liberty, Harrison, Polk, Lamar, Angelina, Marion, Nacogdoches, San Jacinto, Rusk, Case, Cass, and Montgomery Counties in Texas. The A/G points included in this index start in Cass County, TX, and run through Lamar County, TX, and through Carter, Latimer, Pittsburg, Johnston, Atoka, and Bryan Counties in Oklahoma. Our NGPL TexOk index does not include the Oklahoma portion of NGPL that lies within the Midcontinent Receipt and Delivery zone. Furthermore, our index includes the TexOk Zone - G.C. Pooling Point, but excludes the TexOk Zone A/G Pooling Point.
<b>Tennessee Zone 0 North (ETXTENN)</b>	<i>Daily GPI (10/1/10) Weekly GPI (6/20/88)<sup>1</sup> Bidweek (Jul-88)<sup>1</sup></i>	Tennessee Zone 0 North picks up at the East Bernard (Station 17) Compressor Station in Wharton County, TX, and continues on to the Zone 0 Leg 100 North Pool point (location number 420826) in Natchitoches Parish, LA. Zone 0 North also includes the Carthage lateral that starts in Carthage, TX and extends to Natchitoches Parish, LA. However, our Zone 0 North index does not include any transactions at Carthage itself, because that is a separate index. Tennessee Pipeline split what was previously Zone 0 into Zone 0 South and North effective November 1, 2009.
<b>Texas Eastern E. TX (ETXTETCO)</b>	<i>Daily GPI (4/27/98) Weekly GPI (6/20/88) Bidweek (Jul-88)</i>	Encompasses all deliveries into the Access Zone "E TX," which houses the 24" segment of the pipeline between the suction side of the Huntsville Compression Station in Texas, to the suction side of the compressor station in Little Rock, AR. Our TETCO E. TX index also includes deals into the portion of the pipeline that extends from Joaquin in Shelby County, TX to North Central Louisiana.
<b>Tolar Hub (OHTOLAR)</b>	<i>Daily GPI (10/22/13)<sup>8</sup> Weekly GPI (5/1/17) Bidweek (N/A)</i>	The Tolar Hub in Hood County, Texas connects the Worsham-Steed Gas Storage facility to Atmos Pipeline, Enbridge, ETC Cleburne, North Texas Pipeline, and NorTex.
<b>Transco Zone 2 (ETXST45)</b>	<i>Daily GPI (4/27/98) Weekly GPI (6/20/88) Bidweek (Jul-88)</i>	Includes all deliveries into Transco's Zone 2, which is comprised of all locations east of Station 30 in Wharton, TX through Station 45 in Beauregard Parish, LA. We also include deliveries into the North High Island System, Southwest Louisiana Gathering System, and upstream of or near the U-T Offshore System (UTOS) and the High Island Offshore System (HIOS), as those facilities are defined in the Transco rate tariff. We changed the name of this index from Station 45 to Zone 2 in October, 2010.

## West Texas/SE New Mexico

Index	Start Dates	Description
<b>El Paso Permian (WTXEPP)</b>	<i>Daily GPI (7/13/93) Weekly GPI (6/20/88) Bidweek (Jul-88)</i>	Includes deliveries into El Paso Natural Gas in the Permian Basin, which in turn includes the areas along its system that EPNG designates as the Waha, Keystone, and Plains pools.
<b>El Paso - Keystone Pool (WTXEPKEY)</b>	<i>Daily GPI (10/9/18) Weekly GPI (10/15/18) Bidweek (11/1/18)</i>	Receipts within the El Paso Natural Gas Keystone Pool, which is comprised of meters in the following counties: TX: Andrews, Coke, Crane, Culberson, Ector, Glasscock, Loving, Midland, Pecos, Reagan, Reeves, Sterling, Upton, Ward, and Winkler NM: Eddy, Lea. For an updated list of current receipt locations in the Keystone Pool, please refer to the Customer Information, Training Documents section of the El Paso Natural Gas Pipe Portal.

## West Texas/SE New Mexico

Index	Start Dates	Description
<b>El Paso – Plains Pool (WTXEPPL)</b>	<i>Daily GPI (10/9/18)</i> <i>Weekly GPI (10/15/18)</i> <i>Bidweek (11/1/18)</i>	EPNG Plains Pool receipts, which span Chaves & Lea Counties, NM, and Hockley, Lamb, and Yoakum Counties, TX. For an updated list of current receipt locations in the Plains Pool, please refer to the Customer Information, Training Documents section of the El Paso Natural Gas Pipe Portal.
<b>El Paso – Waha Pool (WTXEPWAHA)</b>	<i>Daily GPI (10/9/18)</i> <i>Weekly GPI (10/15/18)</i> <i>Bidweek (11/1/18)</i>	Receipts within the EPNG Waha Pool in Pecos, Reeves, and Terrell Counties, TX. For an updated list of current receipt locations in the Waha Pool, please refer to the Customer Information, Training Documents section of the El Paso Natural Gas Pipe Portal.
<b>Northern Natural Gas 1-7 (WTXNNG)</b>	<i>Daily GPI (4/25/17)</i> <i>Weekly GPI (5/1/17)</i> <i>Bidweek (N/A)</i>	Comprised of receipts within Northern Natural Gas' Mileage Indicator Districts (MIDs) 1-7, which serve the Permian Basin, and extend into the North Texas Panhandle into Armstrong County, Tx.
<b>Oneok WesTex (WTXONEOK)</b>	<i>Daily GPI (4/3/17)</i> <i>Weekly GPI (4/3/17)</i> <i>Bidweek (N/A)</i>	Deliveries into Oneok WesTex, which is a Texas intrastate system that transports production from the rapidly growing Permian Basin, as well as the Texas Panhandle region.
<b>Transwestern (WTXTW)</b>	<i>Daily GPI (4/27/98)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Incorporates transactions into Transwestern's West Texas and Central Pools. These two zones include transactions at all points along the West Texas Lateral between Station 8 in New Mexico and the terminus of the West Texas Lateral in Texas, and the portion of the Panhandle Lateral between Compressor Stations P-1 and Station 9.
<b>Transwestern – Central Pool (WTXTWCENT)</b>	<i>Daily GPI (10/9/18)</i> <i>Weekly GPI (10/15/18)</i> <i>Bidweek (11/1/18)</i>	Transactions within Transwestern's Central Pool, which is located in Chaves, Eddy, Lea, McKinley, Roosevelt, & Valencia Counties, New Mexico.
<b>Transwestern – West Texas Pool (WTXTWOTH)</b>	<i>Daily GPI (10/9/18)</i> <i>Weekly GPI (10/15/18)</i> <i>Bidweek (11/1/18)</i>	Deals within Transwestern's West Texas Pool, which spans across Chaves, Eddy, & Lea Counties, NM, and Hemphill, Loving, Pecos, Reeves, Ward, and Winkler Counties, TX.
<b>Waha (WTXWAHA)</b>	<i>Daily GPI (4/7/95)</i> <i>Weekly GPI (9/6/99)</i> <i>Bidweek (Sep-99)</i>	Contains transactions at the Waha Hub within the Permian Basin in West Texas. Includes deals into and in the vicinity of the Waha DCP/Atmos Hub and Waha (EPGT) Texas Hub. Interconnecting pipelines/systems include El Paso, Gulf Coast Express, NGPL, Northern Natural, Oneok Westex, Transwestern, Atmos, Energy Transfer, Enterprise Texas, and Oasis. Our index also includes deals within the El Paso – Waha pool, and the Oneok Westex pool, points that we also publish as separate listings. NOTE (1): We began to include El Paso – Waha Pool and Oneok Westex pool transactions in our Waha index beginning November 1, 2018, in an effort to better reflect rapidly changing flows within the Permian Basin, and to add more liquidity to this listing. NOTE (2): ICE has launched a new Arena West Texas Pool location, which is comprised of the Waha Header, Trans-Pecos, OWT, Roadrunner, and Comanche Trail, starting November 1, 2018. NGI will monitor trades at this new point, and we will consider adding this listing to our Waha Hub calculation, should market conditions warrant our doing so.

## Midwest

Index	Start Dates	Description
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<b>Alliance (MCWALL)</b>	<i>Daily GPI (4/2/01) Weekly GPI (4/2/01) Bidweek (Apr-01)</i>	Comprised of all points within the U.S. Delivery Pool that are in Illinois, with the exception of gas delivered from Alliance into the Nicor and Peoples Gas LDCs, since those deliveries are included in our Chicago Citygate index. Includes transactions at the Alliance Chicago Exchange (ACE Hub).
<b>ANR ML7 (MCWML7)</b>	<i>Daily GPI (9/1/99) Weekly GPI (9/6/99) Bidweek (Sep-99)</i>	Includes deliveries to all points within ANR's "Northern Area," which ANR formally defines as all points downstream of the Sandwich, IL and Defiance, OH Compressor Stations. The Northern Area is also referred to as ML7. This region includes points in Wisconsin, Northeast Illinois, Northwest Indiana along Lake Michigan, Michigan, Northeast Indiana, and Northwest Ohio. Our ML7 index excludes transactions at the Joliet Hub, since that is a separate index.
<b>Bluewater Hub (MCWBWH)</b>	<i>Daily GPI (10/22/13)<sup>8</sup> Weekly GPI (5/1/17) Bidweek (N/A)</i>	The Bluewater Gas Storage facilities are located in St. Clair County, MI, and are connected to ANR, Consumers Energy, Great Lakes Gas Transmission, Michigan Consolidated Gas, Union Gas Limited, and Vector Pipeline.
<b>Chicago – Nicor Gas (MCWCCNICOR)</b>	<i>Daily GPI (5/1/15) Weekly GPI (5/4/15) Bidweek (May-15)</i>	Volumetric weighted average of all transactions delivered into the Nicor Gas LDC system.
<b>Chicago – NIPSCO (MCWCCNIPS)</b>	<i>Daily GPI (5/1/15) Weekly GPI (5/4/15) Bidweek (May-15)</i>	Volumetric weighted average of all deals delivered into the Northern Indiana Public Service Company system.
<b>Chicago – North Shore (MCWCCNSHOR)</b>	<i>Daily GPI (5/1/15) Weekly GPI (5/4/15) Bidweek (May-15)</i>	Volumetric weighted average of all deals delivered into the North Shore LDC.
<b>Chicago – Peoples Gas (MCWCCPEOP)</b>	<i>Daily GPI (5/1/15) Weekly GPI (5/4/15) Bidweek (May-15)</i>	Volumetric weighted average of all gas delivered into the Peoples Gas Light & Coke system.
<b>Chicago Citygate (MCWCCITY)</b>	<i>Daily GPI (7/13/93) Weekly GPI (6/20/88) Bidweek (Jul-88)</i>	Deliveries into the Nicor Gas, Peoples Gas Light & Coke, North Shore Gas, and Northern Indiana Public Service Co. (NIPSCO) systems in the Chicagoland area. <i>Note: NGI began publishing separate indexes into Nicor, NIPSCO, North Shore, and Peoples on May 1, 2015. However, these changes have had no effect on how we calculate our Chicago Citygate index. Our Chicago Citygate index continues to be a weighted average of deals delivered into those four LDC systems.</i>
<b>Consumers Energy (MCWCONS)</b>	<i>Daily GPI (4/27/98) Weekly GPI (6/20/88) Bidweek (Jul-88)</i>	Made up of deliveries into the Consumers Energy LDC system in Michigan.
<b>Dawn (MCWDAWN)</b>	<i>Daily GPI (10/3/00) Weekly GPI (10/9/00) Bidweek (Nov-00)</i>	Gas traded at Union Gas' Dawn Hub in Dawn Township, Ontario. This point does not include deals at the Bluewater Storage Hub in Michigan, deliveries at St. Clair, MI (interconnect with MichCon), or transactions at OJIBWAY (interconnect with Panhandle Eastern Pipeline). Although this is a Canadian point, our prices are listed in \$US/MMBtu.
<b>Defiance (MCWDEFIANCE)</b>	<i>Daily GPI (8/1/19) Weekly GPI (8/5/19) Bidweek (Aug-19)</i>	The volumetric weighted average of our separate Rover – ANR and Rover – Panhandle indexes.
<b>Rover – ANR (MCWROVANR)</b>	<i>Daily GPI (8/1/19) Weekly GPI (8/5/19) Bidweek (Aug-19)</i>	Deliveries from Rover Pipeline into ANR Pipeline in Defiance County, OH.
<b>Rover – Panhandle (MCWROVPEPL)</b>	<i>Daily GPI (8/1/19) Weekly GPI (8/5/19) Bidweek (Aug-19)</i>	Deliveries from Rover Pipeline into Panhandle Eastern in Defiance County, OH.

## Midwest

Index	Start Dates	Description
<b>Emerson (MCWEMER)</b>	<i>Daily GPI (6/1/09) Weekly GPI (6/1/09) Bidweek (Jun-09)</i>	Transactions from TransCanada Pipeline into both Viking Gas Transmission and Great Lakes Gas Transmission at Emerson, MN. Prices are listed in \$US/MMbtu.
<b>Joliet (MCWJOL)</b>	<i>Daily GPI (7/1/11) Weekly GPI (7/4/11) Bidweek (Jul-11)</i>	Gas transacted at all pipeline interconnections at ANR's Joliet Hub in Will County, IL, and at Channahon in Grundy County, IL. Joliet and Channahon are approximately ten miles apart. ANR's Joliet Hub interconnects with Alliance, Guardian, Horizon, Kinder Morgan Illinois, NGPL, Northern Border, Midwestern, and Vector Pipelines, along with the NiGas, NIPSCO, and Peoples LDC systems. Channahon is home of the Aux Sable natural gas processing plant, and is the terminus of Alliance Pipeline. Alliance connects with ANR, Guardian, NGPL, Midwestern, and Vector Pipelines.
<b>Lebanon (NEALEB)</b>	<i>Daily GPI (6/1/09) Weekly GPI (6/1/09) Bidweek (Jun-09)</i>	Comprised of transactions to and from the Lebanon Hub in Warren County, Ohio. Interconnecting interstate pipelines include ANR, Columbia Gas Transmission (TCO), Dominion, Panhandle Eastern, Rockies Express, Texas Eastern, and Texas Gas Transmission. NOTE: NGI moved its Lebanon index from the Northeast to the Midwest section of its various spot market price tables in August 2015.
<b>NGPL Amarillo Mainline (MCWNGPLAM)</b>	<i>Daily GPI (6/11/96) Weekly GPI (9/6/99) Bidweek (Sep-99)</i>	Calculated from transactions that are delivered into the Amarillo Mainline Receipt Zone. This area begins at Compressor Station 106 in Gage County, NE, and terminates between Stations 198 & 109 in Southwest Iowa.
<b>NGPL Iowa-Illinois (MCWNGPLIOI)</b>	<i>Daily GPI (4/25/17) Weekly GPI (5/1/17) Bidweek (N/A)</i>	Includes transactions within the Iowa-Illinois receipt zone of NGPL. This region traverses east of Compressor Station 198 in Eastern Iowa and includes the entire portion of NGPL that serves Illinois. However, this index does not include deliveries to the LDC systems that comprise our Chicago Citygate index. Also includes NGPL MidAmerican deals that fall in the Iowa-Illinois receipt zone.
<b>NGPL MidAmerican (MCWNGPLMIDAM)</b>	<i>Daily GPI (4/3/17) Weekly GPI (4/3/17) Bidweek (N/A)</i>	Deliveries along NGPL to MidAmerican Energy in Iowa and Illinois. Note that MidAmerican Energy is located within both the NGPL Amarillo Mainline and Iowa-Illinois receipts zones. We may also include deals from this index in our individual NGPL Amarillo and Iowa-Illinois indexes, if those deals are clearly marked as being in one of those two zones.
<b>Michigan Consolidated (MCWMCON)</b>	<i>Daily GPI (4/27/98) Weekly GPI (6/20/88) Bidweek (Jul-88)</i>	Deliveries into the Michigan Consolidated LDC system in Michigan, excluding those into the Bluewater Hub and at St. Clair, MI. MichCon serves three main areas of the state: 1.) The greater Detroit area (Wayne, Monroe, Washtenaw, and Oakland Counties), 2) Central Michigan (Emmet, Cheboygan, Presque Isle, Charlevoix, Antrim, Otsego, Montmorency, Alpena, Alcona, Crawford, Kalkaska, Grand Traverse, Benzie, Leelanau, Manistee, Wexford, Roscommon, Ogemaw, Iosco, Gladwin, Clare, Osceola, Lake, Mason, Oceana, Muskegon, Newaygo, Mecosta, Isabella, Montcalm, Gratiot, Ottawa, Kent, and Ionia Counties), and 3.) The Upper Peninsula (Chippewa, Alger, Delta, Menominee, Dickenson, Marquette, and Iron Counties). MichCon is a subsidiary of DTE Energy.
<b>Parkway/Union (MCWPARKWAY)</b>	<i>Daily GPI (5/1/15) Weekly GPI (5/4/15) Bidweek (May-15)</i>	Gas traded at Parkway, which is eastern terminus of the Union Gas Pipeline near Toronto, Ontario. Price listed in \$US/MMBtu.
<b>REX Zone 3 Delivered (OTHREXZN3DEL)</b>	<i>Daily GPI (11/1/18) Weekly GPI (11/5/18) Bidweek (Nov-18)</i>	Comprised of deals delivered from REX into ANR at Shelby County, IN; MGT at Edgar County, IL; NGPL at Moultrie County, IL; PEPL at Putnam County, IN; and Trunkline at Douglas County, IL.

<b>REX into ANR – Shelby (MCWREXANR)</b>	<i>Daily GPI (8/3/15) Weekly GPI (8/10/15) Bidweek (Apr-17)</i>	Volumetric weighted average of all deliveries from REX into ANR in Shelby County, IN.
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## Midwest

Index	Start Dates	Description
<b>REX into MGT – Edgar (MCWREXMGT)</b>	<i>Daily GPI (8/3/15) Weekly GPI (8/10/15) Bidweek (Apr-17)</i>	Comprised of all deals delivered from REX into Midwestern Gas Transmission at Scotland, IL in Edgar County.
<b>REX into NGPL – Moultrie (MCWREXNGPL)</b>	<i>Daily GPI (8/3/15) Weekly GPI (8/10/15) Bidweek (Apr-17)</i>	Deliveries from Rockies Express into Natural Gas Pipeline of America in Moultrie County, IL.
<b>REX into PEPL – Putnam (MCWREXPEPL)</b>	<i>Daily GPI (8/3/15) Weekly GPI (8/10/15) Bidweek (Apr-17)</i>	Volumetric weighted average of all gas delivered from REX into Panhandle Eastern in Putnam County, IN.
<b>REX into Trunk – Douglas (MCWREXTRNK)</b>	<i>Daily GPI (8/3/15) Weekly GPI (8/10/15) Bidweek (Apr-17)</i>	Gas delivered from Rockies Express into Trunkline in Douglas County, IL.
<b>St. Clair (MCWSTCLAIR)</b>	<i>Daily GPI (7/2/12) Weekly GPI (7/9/12) Bidweek (N/A)</i>	Measures the price of gas delivered from (into) the MichCon system into (from) TransCanada Pipeline at St. Clair, MI, although this is primarily an export point from the U.S. into Canada. Prices are listed in \$US/MMBtu. As noted above, import deals at St. Clair are not included in our MichCon index.

## Midcontinent

Index	Start Dates	Description
<b>ANR SW (MCWANR)</b>	<i>Daily GPI (6/3/97) Weekly GPI (6/20/88) Bidweek (Jul-88)</i>	Includes all points within ANR’s Southwest Area. This zone includes all points along ANR Pipeline in Texas and Oklahoma, along with those locations in Kansas that are upstream of and include the SW Headstation in Greensburg, KS.
<b>El Paso Anadarko (MCWEPANDKO)</b>	<i>Daily GPI (4/1/20) Weekly GPI (4/6/20) Bidweek (N/A)</i>	Comprised of receipts into El Paso in Washita County, OK, and Moore, Potter, and Wheeler Counties, TX.
<b>Enable East (MCWNORE)</b>	<i>Daily GPI (6/11/96) Weekly GPI (6/20/88) Bidweek (Jul-88)</i>	Our Enable East index includes deliveries into both the North and the Neutral (aka “Flex Pool”) Pooling areas of the EGT system. The North Pooling Area includes all points in Arkansas along the EGT system that are north of the Malvern Compressor Station, the small lateral in Arkansas that runs south of Malvern in Arkansas and Desha Counties, and all points west of the Dunn Compressor Station up to but not including the beginning of the Neutral Pooling Area in Oklahoma. The Neutral Pool contains all points along CEGT in Pittsburg, Haskell, Latimer, and Pushmataha Counties in Oklahoma. We renamed this index Enable East from CenterPoint East in December 2013.
<b>NGPL Midcontinent (MCWNGPL)</b>	<i>Daily GPI (6/11/96) Weekly GPI (6/20/88) Bidweek (Jul-88)</i>	We only include deliveries into a portion of the NGPL Midcontinent area. That included portion begins with Station 801 in South Central Oklahoma, and veers west to include the entire “triangle” area marked by Station 156 in Oklahoma, Station 111 in Moore County, TX (North Texas Panhandle), and Station 103 in South Central Kansas. However, we do not incorporate any transactions that are delivered to NGPL between Stations 103 and the terminus of the Midcontinent Zone at Station 106 in Gage, NE.
<b>Northern Natural Gas 8-12 (MCWNNG812)</b>	<i>Daily GPI (4/25/17) Weekly GPI (5/1/17) Bidweek (N/A)</i>	Receipts into NNG Mileage Indicator Districts (MIDs) 8-12, which lie entirely within the North Texas Panhandle and Western Oklahoma.

## Midcontinent

Index	Start Dates	Description
<b>Northern Natural Gas 13-16A (MCWNNG1316A)</b>	<i>Daily GPI (4/25/17)</i> <i>Weekly GPI (5/1/17)</i> <i>Bidweek (N/A)</i>	Transactions within NNG Mileage Indicator Districts (MIDs) 13-16A, which are primarily located in Kansas, and represent the last of the NNG "production" segment before the pipeline transitions to its "Market Area." Does not include MID 16B, which is our NNG Demarc index, and is the demarcation point between the production and market portions of the pipeline.
<b>Northern Border Ventura (MCWNBVENT)</b>	<i>Daily GPI (10/1/10)</i> <i>Weekly GPI (10/4/10)</i> <i>Bidweek (Oct-10)</i>	Our Northern Border Ventura index captures the value of gas at Ventura, IA that is ticketed for delivery into the Chicago area. As such, it includes receipts from Northern Natural Gas, along with deliveries along its own system at the Ventura Transfer Point. As stated in the Northern Border tariff, "the term 'Transfer Point' shall be used to describe a point on company's system where, for purposes of scheduling and nominations, in-line transfers of gas shall occur from one transportation agreement to another or from a compression agreement or PAL agreement to a transportation agreement." Our index does not include gas traded from Northern Border into Northern Natural Gas.
<b>Northern Natural Demarc (MCWDMARK)</b>	<i>Daily GPI (4/7/95)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Deals transacted at NNG's Demarcation point, which is the pooling point that separates NNG into its Field and Market zones. This is pooling point/Mileage Indicator District (MID) point 16B as defined in NNG's Rate Schedule MPS: MID Pooling Services rate schedule. The point itself is located in Clay County, KS.
<b>Northern Natural Ventura (MCWVENT)</b>	<i>Daily GPI (4/27/98)</i> <i>Weekly GPI (12/5/94)</i> <i>Bidweek (Dec-94)</i>	Gas traded into Northern Natural Gas at Ventura in Hancock County, IA. Our index includes both transactions along the NNG system at the Ventura pooling point, or delivered into NNG at Ventura from Northern Border Pipeline.
<b>OGT (MCWONG)</b>	<i>Daily GPI (6/11/96)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	An intrastate pipeline within the State of Oklahoma, Oneok Gas Transmission (OGT) has 23 interstate and 20 intrastate pipeline connections. Although many traders view OGT as having an east and a west portion, the pipeline operates as a single pricing pool. Our index includes transactions conducted at any point along the OGT system.
<b>Panhandle Eastern (MCWPEPL)</b>	<i>Daily GPI (7/13/93)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Includes deliveries into Panhandle anywhere within its Field Zone, which incorporates the Kansas, Oklahoma, and Texas portions of PEPL that are upstream of its Haven, KS Compressor Station.
<b>Southern Star (MCWWILL)</b>	<i>Daily GPI (4/27/98)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Our Southern Star index encompasses receipts within Pools 2-8 of the systems' Production Area, or stated differently, all points within the Southern Star Production Area that are south of Hesston Station in Harvey County, KS. We exclude the Rawlins-Hesston Pool (Pool #1) that runs through Northwest Kansas, Colorado, and Wyoming, since we believe that is more indicative of Rockies production, along with the entire Market Area of the Southern Star system.
<b>Transwestern Panhandle Pool (OTHTWPAN)</b>	<i>Daily GPI (4/25/17)</i> <i>Weekly GPI (5/1/17)</i> <i>Bidweek (N/A)</i>	Includes receipts into the Texas Panhandle portion of the pipeline, which extends from North Texas (primarily from Roberts County) to Roswell in Chaves County, NM.

## North Louisiana/Arkansas

Index	Start Dates	Description
<b>Enable South (NLACPTS)</b>	<i>Daily GPI (10/1/10)</i> <i>Weekly GPI (10/4/10)</i> <i>Bidweek (N/A)</i>	Includes deliveries into EGT's South Pooling Area, excluding those along Line CP, and at the Perryville Hub, since that is a separate index. EGT South begins at the terminus of the EGT Neutral Pool in Pushmataha County, OK, extends southeast to the Malvern Compressor Station in Central Arkansas, and includes all points south of Malvern in the states of Arkansas, Texas, and Louisiana that are not included in the EGT Line CP Pooling Area. We renamed this index Enable South from CenterPoint South in December 2013.



## North Louisiana/Arkansas

Index	Start Dates	Description
<b>NGPL Gulf Coast Mainline (NLANGPLGULFML)</b>	<i>Daily GPI (10/1/10)</i> <i>Weekly GPI (10/4/10)</i> <i>Bidweek (N/A)</i>	Includes deliveries into the entire Gulf Coast Mainline zone, which begins with Station 305 at the Texas/Arkansas border, and extends to Missouri/Illinois border just northeast of Station 309.
<b>Perryville (NLAPERRY)</b>	<i>Daily GPI (7/2/12)</i> <i>Weekly GPI (7/9/12)</i> <i>Bidweek (Jul-12)</i>	Our Perryville index is comprised of the following: 1.) All interconnects that make up Enable Gas Transmission's Perryville Hub, which include the following pipelines: ANR, Columbia Gulf, Gulf South, Midcontinent Express, Mississippi River Transmission, Southeast Supply Header, Southern Natural, Tennessee, Texas Eastern, Texas Gas, and Trunkline, as well as the Perryville Gas Storage facility; 2.) All points that comprise Boardwalk's (Gulf South Pipeline) Perryville Exchange Service (PXS), which is comprised of all locations that make up the "Exchange Area" of Gulf South's 42" expansion line. The Exchange Area extends from the discharge side of the Vixen Compressor Station in Ouachita Parish, LA to the suction side of the Tallulah Compressor Station in Madison Parish, LA; 3.) Other pipeline interconnects between Northeast Ouachita Parish, LA and the suction side of the Gulf South Tallulah Compressor Station that do not involve Enable Gas Transmission or Gulf South Pipeline. Such other points include interconnects among, but not limited to: ANR, Columbia Gulf, Gulf Crossing, Midcontinent Express, Mississippi River Transmission, NGPL, Regency, Southeast Supply Header, Southern Natural, Tennessee, Texas Eastern, Texas Gas, Tiger Pipeline, and Trunkline, and 4.) Deals into Cardinal Gas Storage's Cadeville Gas Storage facility in Ouachita Parish, LA, and its Perryville Gas Storage complex in Franklin Parish, LA.
<b>Texas Eastern M-1, 24" (ALATETM124)</b>	<i>Daily GPI (9/4/07)</i> <i>Weekly GPI (9/10/07)</i> <i>Bidweek (Sep-07)</i>	Consists of the 24" segment of Texas Eastern that runs through the "Market Zone 1" segment of the pipeline. That segment begins in Little Rock, AR and extends to Norris City, IL. Our index does not include deliveries into the 30" segment of Texas Eastern that crosses through Zone 1 between Kocsiusko, MS and the Kentucky/Tennessee border.
<b>Texas Gas Zone 1 (ETXTGT)</b>	<i>Daily GPI (6/11/96)</i> <i>Weekly GPI (9/6/04)</i> <i>Bidweek (Nov-05)</i>	Comprised of all receipts within Texas Gas Transmission's Zone 1. Zone 1 starts just south of the Pineville Compressor Station in Rapides Parish, LA, and runs to the start of Zone 2 at the intersection of Dyer and Crockett Counties in Tennessee. Zone 1 includes the North Louisiana, Fayetteville, and Greenville Lines, but excludes transactions in Carthage, Tx, as those are included in our separate Carthage index.
<b>Trunkline Zone 1A (OTHTRNK1A)</b>	<i>Daily GPI (6/1/09)</i> <i>Weekly GPI (6/1/09)</i> <i>Bidweek (Jun-09)</i>	Made up of all receipts within Trunkline Zone 1A, which begins at the Longville Compressor Station in Beauregard Parish, LA, crosses through SE Arkansas and NW Mississippi, and ends at the suction side of the Dyersburg Compressor Station in Dyer County, TN.

## South Louisiana

Index	Start Dates	Description
<b>ANR SE (SLAANRSE)</b>	<i>Daily GPI (6/11/96)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Comprised of deliveries into the ANR Southeast Area, including both the Transmission and the Gathering segments of the pipeline. This region includes all onshore and offshore points on ANR Pipeline south of and including the SE Headstation at Eunice, LA. Those points south of Eunice lie along two separate offshore/onshore laterals. Gas from the east lateral comes onshore through the 1.6 Bcf/d Calumet Processing Plant in Saint Mary Parish, LA, while the west lateral shuttles gas from the High Island Offshore System onshore through the Grand Chenier Compressor Station. The two laterals merge at the SE Headstation in Eunice.
<b>Bobcat Storage (STGBOBCAT)</b>	<i>Daily GPI (10/22/13)<sup>8</sup></i> <i>Weekly GPI (5/1/17)</i> <i>Bidweek (N/A)</i>	Located in St. Landry Parish, LA, Spectra Energy's Bobcat Storage facility is connected to ANR, Florida Gas Transmission, Gulf South, Texas Eastern Transmission, and Transco.

## South Louisiana

Index	Start Dates	Description
<b>Columbia Gulf Mainline (SLACGMAIN)</b>	<i>Daily GPI (4/27/98)</i> <i>Weekly GPI (9/6/99)</i> <i>Bidweek (Sep-99)</i>	Receipts within the Mainline portion of the Columbia Gas Transmission system between Rayne in Acadia Parish, LA and the Mississippi/Tennessee border.
<b>Columbia Gulf Onshore (SLACGO)</b>	<i>Daily GPI (6/11/96)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Includes deliveries into the Onshore portion of the Columbia Gulf Transmission system. The Onshore segment of the pipeline contains all onshore deliveries south of Rayne, LA, including locations in Acadia, Calcasieu, Cameron, Iberia, Jefferson, Jefferson Davis, Lafayette, Lafourche, Plaquemines, St. Charles, St. Mary, Terrebonne, and Vermilion Parishes.
<b>Egan Hub (STGEGAN)</b>	<i>Daily GPI (10/22/13)<sup>8</sup></i> <i>Weekly GPI (5/1/17)</i> <i>Bidweek (N/A)</i>	Spectra Energy's Egan Hub, which is located in Acadia Parish, LA, is connected to ANR Pipeline Company, Columbia Gulf Transmission Company, Florida Gas Transmission, Kinder Morgan Louisiana, Tennessee Gas Pipeline, Texas Eastern Transmission, Texas Gas Transmission, and Trunkline.
<b>Florida Gas Zone 2 (SLAFGTZ2)</b>	<i>Daily GPI (4/27/98)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Comprised of deliveries into Florida Gas Zone 2, which begins east of Compressor Station 7 in Acadia Parish, LA, and extends to Compressor Station 8 in the City of Zachary, LA, East Baton Rouge Parish, LA.
<b>Henry Hub (SLAHH)</b>	<i>Daily GPI (7/13/93)</i> <i>Weekly GPI (9/11/89)</i> <i>Bidweek (Sep-89)</i>	Deliveries into and from Sabine's Henry Hub in Erath, LA. Connecting pipelines include Acadian, Bridgeline, Columbia Gulf, Gulf South, Jefferson Island, NGPL, Sabine, Sea Robin, Southern Natural, Trunkline, & Texas Gas.
<b>Pine Prairie (SLAPPSF)</b>	<i>Daily GPI (10/22/13)<sup>8</sup></i> <i>Weekly GPI (5/1/17)</i> <i>Bidweek (Mar-20)</i>	The Pine Prairie Energy Center is comprised of a salt dome storage facility in Evangeline Parish, LA that connects to eight natural gas pipelines: ANR, Columbia Gulf Transmission, Florida Gas Transmission, Kinder Morgan Louisiana, Tennessee, Texas Eastern Transmission, Texas Gas Transmission, and Transco.
<b>Southern Natural (SLASONAT)</b>	<i>Daily GPI (6/11/96)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Includes deliveries into the portions of Southern Natural which serve Louisiana. This is Zone 0, and is considered by the pipeline to be the production zone. Our index includes the sections of the pipeline in both the Southern and Northern areas of the state, and also contains both Tier 1 and Tier 2 Supply Pool Balancing Agreements, provided that they are within Zone 0.
<b>Tennessee Line 500 (SLAT500)</b>	<i>Daily GPI (4/7/95)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Our Tennessee Line 500 index reflects deals transacted on the "500 Leg" within Tennessee's rate Zone L. This includes all points on the U-shaped line that starts in Natchitoches Parish, LA, extends into Southern Louisiana, and terminates with the Zone L Leg 500 Pool point (#420999) in Forrest County, MS,
<b>Tennessee Line 800 (SLAT800)</b>	<i>Daily GPI (4/7/95)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Includes deliveries into the "800 Leg" within Tennessee's Zone L. The 800 Leg includes all points south of the Winnsboro (#834) and Natchitoches (#40) Compressor Stations in Franklin and Natchitoches Parishes, LA, and west of mainline valve 515 in St. Mary Parish, LA. This also includes deliveries from the Blue Water Header System in the Gulf of Mexico.
<b>Texas Eastern E. LA (SLATETCOE)</b>	<i>Daily GPI (4/7/95)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Comprised of all receipts within the 30" portion of the "Access E LA" zone that begins in Opelousas, LA and extends to the Kosciusko, MS Compressor Station. Our index also includes deliveries from the lateral that extends from offshore SE Louisiana to the intersection with the main pipeline just south of the St. Francisville Compressor Station. However, our index does not include the portion of the pipeline that extends from the Monroe Compressor Station in North Louisiana to Kosciusko.
<b>Texas Eastern W. LA (SLATETCOW)</b>	<i>Daily GPI (6/11/96)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Deliveries into TETCO's "Access Zone W LA," including both the onshore portion between Vidor, TX and Opelousas, LA, and the offshore Cameron segment that delivers gas into the onshore segment of the pipe at the Gillis, LA Compressor Station in Calcasieu Parish.

## South Louisiana

Index	Start Dates	Description
<b>Texas Gas Zone SL (SLATGT)</b>	<i>Daily GPI (6/11/96)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Our Texas Gas Zone South Louisiana (SL) index includes all portions of TGT within the state of Louisiana that lie south of the Pinedale Compressor Station in Rapides Parish, LA, as well as all gas delivered into TGT Zn SL from offshore Gulf of Mexico.
<b>Transco Zone 3 (SLAST65)</b>	<i>Daily GPI (4/7/95)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Includes all deliveries into Transco east of (but not including) Station 45 in Beauregard Parish, LA to Station 65 in St. Helena Parish, LA. Our index also includes the Central Louisiana Gathering System that intersects with the mainline at Station 50 in Evangeline Parish, LA, and the Southeast Louisiana Gathering System that flows directly into Station 65. We changed the name of this index from Station 65 to Zone 3 in October, 2010.
<b>Trunkline E. LA (SLATRNKE)</b>	<i>Daily GPI (6/11/96)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Deliveries into Trunkline from the Patterson Compressor Station in St. Mary Parish, LA, to just east of the Kaplan Compressor Station in Vermilion Parish, LA.
<b>Trunkline W. LA (SLATRNKW)</b>	<i>Daily GPI (6/11/96)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	The West Louisiana Service Area on Trunkline begins with and includes the Kaplan Compressor Station in Vermilion Parish, LA, and extends to the Longville Compressor Station in Beauregard Parish, LA.

## Southeast

Index	Start Dates	Description
<b>Dominion Energy Cove Point (NEACOVE)</b>	<i>Daily GPI (4/25/17)</i> <i>Weekly GPI (5/1/17)</i> <i>Bidweek (N/A)</i>	Includes gas delivered anywhere into the Dominion Energy Cove Point pipeline, which connects pipelines in Northern Virginia to the actual Cove Point LNG facility in Lusby, MD. The three main delivery points into Cove Point pipeline are via Columbia Gas and Dominion Energy Transmission in Loudoun County, VA, and from Transco at Pleasant Valley in Fairfax County, VA. NOTE: Prior to 6-25-18, our Cove Point index incorporated deliveries from the Cove Point system into Transco at Pleasant Valley, which was more reflective of flows when the Cove Point LNG facility was an import location only.
<b>Florida Gas Zone 3 (SLAFGTZ3)</b>	<i>Daily GPI (4/27/98)</i> <i>Weekly GPI (9/6/99)</i> <i>Bidweek (Sep-99)</i>	Florida Gas Zone 3 includes transactions east of Compressor Station 8 in East Baton Rouge Parish, LA, through the end of Zone 3 in Santa Rosa County, FL.
<b>FGT Citygate (FLAFGT)</b>	<i>Daily GPI (10/3/00)</i> <i>Weekly GPI (10/9/00)</i> <i>Bidweek (Nov-00)</i>	Incorporates deliveries into the state of Florida via Florida Gas Transmission. More specifically, this index is comprised of all deliveries into FGT's Market Zone east of the terminus of Zone 3 in Santa Rosa County, FL. This index does not include any transactions in the Western Division, nor deliveries to Florida from Gulfstream Natural Gas System or Southern Natural.
<b>Southern Pines (ALASPSF)</b>	<i>Daily GPI (10/22/13)<sup>8</sup></i> <i>Weekly GPI (5/1/17)</i> <i>Bidweek (N/A)</i>	Located in Greene County, MS, Plains All-America's Southern Pines storage facility is connected to Destin, Florida Gas Transmission, Gulf South, Southeast Supply Header, and Transco.
<b>Tennessee Zone 1 100 Leg (ALATENN1L100)</b>	<i>Daily GPI (4/25/17)</i> <i>Weekly GPI (5/1/17)</i> <i>Bidweek (Apr-20)</i>	Our Tennessee Zone 1 100 Leg indexes includes all transactions in the our new Tennessee Zn 1 St. 87 and Tennessee Zn 1 Non-87 Pool indexes.
<b>Tennessee Zn 1 St. 87 (SETENN1ST87)</b>	<i>Daily GPI (4/1/20)</i> <i>Weekly GPI (4/6/20)</i> <i>Bidweek (Apr-20)</i>	Comprised of transactions at Tennessee Compressor Station 87, located at the Kentucky/Tennessee border.

## Southeast

Index	Start Dates	Description
<b>Tennessee Zn 1 Non-87 Pool (SETENN10TH)</b>	<i>Daily GPI (4/1/20)</i> <i>Weekly GPI (4/6/20)</i> <i>Bidweek (Apr-20)</i>	Includes transaction along the Zone 1 100 leg portion of Tennessee Gas Pipeline. Our index incorporates transactions from the start of Zone 1 100 at Station 40 in Natchitoches, LA, across the remainder of the segment, excluding deals from St. 87 as noted above.
<b>Texas Eastern M-1, 30" (ALATETM1)</b>	<i>Daily GPI (4/27/98)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Includes the 30" pipeline segment in TETCO's "Market Zone 1." The 30" line begins at the Kosciusko, MS Compressor Station and runs to the Tennessee/ Kentucky border. This index does not include the 24" line that runs from Little Rock, AR to Norris City, IL.
<b>Transco Zone 4 (ALAST85)</b>	<i>Daily GPI (4/27/98)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Comprised of receipts within Transco's Zone 4, excluding those in Zones 4A and 4B. Zone 4 begins just upstream of Station 65 at the Louisiana/Mississippi border, and ends at the Georgia/South Carolina Border. Our index includes neither deliveries directly into Zone 4A, which is located in Southeast Alabama, nor into the offshore Zone 4B segment. However, our index does include deliveries made into Station 85 from Zones 4A and 4B. We changed the name of this index from Station 85 to Zone 4 in October 2010.
<b>Transco Zone 5 (NEATRANZ5)</b>	<i>Daily GPI (9/1/04)</i> <i>Weekly GPI (9/6/04)</i> <i>Bidweek (Sep-04)</i>	Incorporates transactions into Transco's Zone 5. Zone 5 begins at the South Carolina/Georgia border, and ends at the Maryland/Virginia border just northeast of Station 185. Our index includes deals into the North Carolina lateral that merges with the mainline at Station 165 in Pittsylvania County, VA, as well as transactions designated as WGL and Non-WGL by the IntercontinentalExchange (ICE). However, our index does not include deliveries from Cove Point LNG.
<b>Transco Zone 5, North (NEATZ5WGL)</b>	<i>Daily GPI (7/1/16)</i> <i>Weekly GPI (7/1/16)</i> <i>Bidweek (Jul-16)</i>	All points north of Station 165 in Virginia and the end of Zone 5, with the exception of deliveries into Transco from Cove Point at the Pleasant Valley receipt point in Northern Virginia.
<b>Transco Zone 5, South (NEATZ5NWGL)</b>	<i>Daily GPI (7/1/16)</i> <i>Weekly GPI (7/1/16)</i> <i>Bidweek (Jul-16)</i>	All locations between and including the beginning of Transco Zone 5 at the Georgia/South Carolina border and Station 165 in Virginia.

## Appalachia

Index	Start Dates	Description
<b>Columbia Gas (NEATCO)</b>	<i>Daily GPI (7/13/93)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Deliveries into the ten aggregation areas as listed in TCO's AS Rate Schedule. Those areas include Kenova, Flat Top, Cobb, Alexander, Delmont, McCelandtown, Crawford, York, Dungannon, and Binghamton, and range from Eastern Kentucky (excluding Leach), West Virginia, SW Virginia, Eastern Ohio, Pennsylvania, and South Central New York. The TCO segmentation pool (SEG Pool) is included in these aggregation points, and is therefore included in our index. So too are Interruptible Paper Pool (IPP) transactions that are included within the 10 aggregation points other than Binghamton, NY. All transactions in and out of Market Areas (as defined by TCO) that fall outside of the 10 aggregation points are not included in our index.
<b>Dominion North (NEACNGNP)</b>	<i>Daily GPI (4/1/14)</i> <i>Weekly GPI (4/4/14)</i> <i>Bidweek (Apr-14)</i>	Our Dominion North Point index includes all receipt points along the Dominion Transmission system that lie downstream of Valley Gate Junction in Allegheny County, PA. This includes all receipt points in Pennsylvania north of Valley Gate, along with the portion of the system that serves New York State.

## Appalachia

Index	Start Dates	Description
<b>Dominion South (NEACNG)</b>	<i>Daily GPI (4/1/14)</i> <i>Weekly GPI (4/4/14)</i> <i>Bidweek (Apr-14)</i>  <i>Formerly "Dominion"</i> <i>Daily GPI (5/14/97)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Includes all deliveries into Dominion's South Pool, which is the portion of the pipeline that lies upstream of Valley Gate Junction in Allegheny County, PA. This includes the Pennsylvania portion of the system that lies south of Valley Gate Junction, along with the segments that are located in Ohio, Maryland, West Virginia, and Virginia. NOTE: NGI split its prior Dominion index into separate Dominion North Point and South Point indexes in April 2014. Prior to that, our Dominion index was a combination of North and South point deals. We at NGI did not see a meaningful volume of reported deals on Dominion North until late 2013, so for historical comparison purposes, our old Dominion index aligns most closely with our new Dominion South Point index.
<b>Leidy Hub (NEALEIDY)</b>	<i>Daily GPI (6/1/09)</i> <i>Weekly GPI (6/1/09)</i> <i>Bidweek (Jun-09)</i>	Deliveries in and out of the Leidy Hub in Clinton County, PA via Columbia Gas Transmission, Dominion Transmission, National Fuel Gas, Texas Eastern, Transco, and Tennessee. In December 2013, we changed the name of this point from Leidy to Leidy Hub, in an effort to eliminate any confusion between this index location and our Transco Leidy-Line index.
<b>Millennium Delivered (NEAMILLDEL)</b>	<i>Daily GPI (4/25/17)</i> <i>Weekly GPI (5/1/17)</i> <i>Bidweek (N/A)</i>	Our Millennium Delivered index includes gas delivered to LDC, industrial end user, or storage systems anywhere along the Millennium system. Excludes deliveries to Algonquin Pipeline at Ramapo, NJ, since we include those transactions in our Algonquin Receipts index.
<b>Millennium East Pool (NEAMILL)</b>	<i>Daily GPI (7/2/12)</i> <i>Weekly GPI (7/9/12)</i> <i>Bidweek (Jul-12)</i>	Includes receipts within the Millennium East Pool, which is defined as the portion of Millennium Pipeline that extends east of the Corning Compressor Station. Our index includes all deals within the East Pool, with the exception of deliveries into Algonquin Gas Transmission at Ramapo, New York, since those trades are reflected in our Algonquin Receipts index.
<b>Tennessee Zn 4 Line 200 (NEATENN4L200)</b>	<i>Daily GPI (10/3/11)</i> <i>Weekly GPI (10/10/11)</i> <i>Bidweek (Oct-11)</i>	Incorporates transactions along Tennessee Gas Pipeline's Zone 4 "200 Leg" that runs from the Ohio/Kentucky border in Scioto County, OH to the Pennsylvania/New York border in Erie County, PA, including deals conducted at the Zone 4 Leg 200 Pool. NGI split its previous Tennessee Zone 4 listing into separate Line 200 and Line 300 postings in October 2011 (NGI further split its Tennessee Zone 4 Line 300 index into separate 313 Pool and Marcellus indexes in April 2012).
<b>Tennessee Zn 4 313 Pool (NEATENN4313P)</b>	<i>Daily GPI (4/2/12)</i> <i>Weekly GPI (4/9/12)</i> <i>Bidweek (Apr-12)</i>	Deliveries into Tennessee Gas Pipeline's Zone 4 "300 Leg" west of the Wellsboro Compressor Station (#315) in Tioga County, PA up to but not including the Mercer (#219) Compressor Station in Mercer County, PA. Includes deals done at the Zone 4 300 Leg Pool. NOTE: As of October 2018, our index no longer includes the small portion of Line 300 that extends Northeast from the Coudersport (Station #313) Compressor Station in Potter County, PA to the PA/NY border. NGI split its previous Tennessee Zone 4 Line 300 posting into separate 313 Pool and Marcellus indexes in April 2012.
<b>Tennessee Zn 4 Marcellus (NEATENN4MAR)</b>	<i>Daily GPI (4/2/12)</i> <i>Weekly GPI (4/9/12)</i> <i>Bidweek (Apr-12)</i>	Transactions along Tennessee Gas Pipeline's Zone 4 "300 Leg" between and including Compressor Station 315 in Tioga County, PA, and Compressor Station 321 in Susquehanna County, PA. NGI split its previous Tennessee Zone 4 Line 300 posting into separate 313 Pool and Marcellus indexes in April 2012.
<b>Texas Eastern M-2, 30" Delivered (NEATETM2DEL)</b>	<i>Daily GPI (7/2/12)</i> <i>Weekly GPI (7/9/12)</i> <i>Bidweek (Jul-12)</i>	Comprised of delivery transactions along the 30" portion of Texas Eastern within its M-2 market zone. Our index does not include transactions along the 24" line that traverses Indiana and Ohio.
<b>Texas Eastern M-2, 30" Receipts (NEATETM2REC)</b>	<i>Daily GPI (7/2/12)</i> <i>Weekly GPI (7/9/12)</i> <i>Bidweek (Jul-12)</i>	Comprised of receipts along the 30" portion of Texas Eastern within its M-2 market zone. Our index does not include transactions along the 24" line that traverses Indiana and Ohio.

## Appalachia

Index	Start Dates	Description
<b>Texas Eastern M-3, Delivered (NEATETM3DEL)</b>	<i>Daily GPI (12/2/13)</i> <i>Weekly GPI (12/9/13)</i> <i>Bidweek (Dec-13)</i>	Consists only of deliveries along Texas Eastern's M3 market zone. Includes the New Jersey-New York section of the pipeline that began delivering gas into New York City in November 2013.
<b>Texas Eastern M-3, Receipts (NEATETM3REC)</b>	<i>Daily GPI (12/2/13)</i> <i>Weekly GPI (12/9/13)</i> <i>Bidweek (Dec-13)</i>	Only incorporates receipts along the M3 market zone portion of Texas Eastern Transmission, including gas delivered into TETCO from the Big Pine Gathering System.
<b>Transco-Leidy Line (NEALEIDYT)</b>	<i>Daily GPI (4/2/12)</i> <i>Weekly GPI (4/9/12)</i> <i>Bidweek (Apr-12)</i>	Contains all transactions on the Transco-Leidy Line from Compressor Station 505 in New Jersey up to but not including the terminus of the line in Leidy, PA. We include deliveries into Leidy itself in our separate Leidy Hub index.

## Northeast

Index	Start Dates	Description
<b>Algonquin Citygate (NEAALGCG)</b>	<i>Daily GPI (9/1/99)</i> <i>Weekly GPI (9/6/99)</i> <i>Bidweek (Sep-99)</i>	Includes transactions to delivery points within the Algonquin system. Excludes gas deliveries into Algonquin from connecting pipelines, as that is a separate index. Our Algonquin Citygate index incorporates the separate Algonquin Citygates and AGT-CG (non-G) locations that are traded on the Intercontinental Exchange.
<b>Algonquin Citygate (non-G) (NEALGNG)</b>	<i>Daily GPI (4/3/17)</i> <i>Weekly GPI (4/3/17)</i> <i>Bidweek (Apr-17)</i>	Essentially this is our Algonquin Citygate index, except it excludes trades that were conducted on G-Lateral of the system. The G lateral originates east of the Mendon interconnect with Tennessee Gas Pipeline, and winds southeast into Cape Cod.
<b>Algonquin Receipts (NEAALGIN)</b>	<i>Daily GPI (10/3/00)</i> <sup>3</sup> <i>Weekly GPI (10/9/00)</i> <sup>4</sup> <i>Bidweek (Nov-00)</i> <sup>5</sup>	Our index includes all receipt points along the Algonquin system. Those points, arranged from highest to lowest operational capacity as of October 2018, include: Brookfield, CT; Lambertville, NJ; Ramapo, NY; Mahwah, NJ; Beverly-Salem Essex, MA; Hanover, NJ; Mendon, MA; and Middlesex, MA. Excludes LNG imports from the Excelerate Energy facility that delivers gas onshore at Essex, MA.
<b>Dracut (NEADRACUT)</b>	<i>Daily GPI (7/1/03)</i> <i>Weekly GPI (7/7/03)</i> <i>Bidweek (N/A)</i>	Deliveries into Tennessee Pipeline from the joint Maritimes & Northeast and Portland Natural Gas Transmission pipeline at Dracut, MA in Middlesex County.
<b>Iroquois Zone 1 (NEAIROZ1)</b>	<i>Daily GPI (10/1/10)</i> <i>Weekly GPI (10/4/10)</i> <i>Bidweek (N/A)</i>	Includes all deliveries into Iroquois Zone 1. The primary points within Zone 1 are the Wright interconnect with Tennessee Gas Pipeline, and the interconnect with Dominion Transmission at Canajoharie. Our index excludes receipts from TransCanada at Waddington, since that is a separate index.
<b>Iroquois Zone 2 (NEAIRO)</b>	<i>Daily GPI (9/1/99)</i> <i>Weekly GPI (9/6/99)</i> <i>Bidweek (Sep-99)</i>	Our Iroquois Zone 2 index includes all deliveries into Iroquois Gas Transmission south of (but excluding) the Wright Compressor Station in upstate New York. Zone 2 ends at the Hunts Point interconnect with the Con Edison system in the New York City metropolitan area.
<b>Iroquois, Waddington (NEAIROWAD)</b>	<i>Daily GPI (9/4/07)</i> <i>Weekly GPI (9/10/07)</i> <i>Bidweek (Sep-07)</i>	Deliveries from TransCanada Pipeline into Iroquois Gas Transmission at the U.S./Canada border at Waddington, New York. Prices are listed in \$US/MMbtu.
<b>Maritimes &amp; Northeast (NEAMNP)</b>	<i>Daily GPI (4/25/17)</i> <i>Weekly GPI (5/1/17)</i> <i>Bidweek (N/A)</i>	Transactions along the U.S. portion of Maritimes & Northeast Pipeline, which runs from the Maine/Canada border to Dracut and Beverly, MA. Our index does not include deliveries or receipts into Dracut, MA, since that is a separate index. Excludes deliveries into, but includes receipts from, Algonquin Gas Transmission's HubLine at Beverly, MA.

## Northeast

Index	Start Dates	Description
<b>Niagara (MCWNIAGR)</b>	<i>Daily GPI (4/2/01)</i> <i>Weekly GPI (4/2/01)</i> <i>Bidweek (Apr-01)</i>	Includes gas flows from TransCanada PipeLine into either Tennessee Gas Pipeline, National Fuel Gas, or Dominion Gas Transmission at Niagara, NY. Our index excludes deliveries into Empire Pipeline at Chippawa. Prices are listed in \$US/MMbtu. However, we are aware that TransCanada plans to import up to 350 MMcf/d of Marcellus production at Niagara, and we will address any pricing impacts at Niagara this may cause at the appropriate time.
<b>Portland Natural Gas Transmission (NEAPNGTS)</b>	<i>Daily GPI (4/25/17)</i> <i>Weekly GPI (5/1/17)</i> <i>Bidweek (N/A)</i>	Incorporates transactions anywhere along the Portland Natural Gas Transmission System, which runs through Massachusetts, Maine, and New Hampshire, with the exception of deals at Dracut, MA, since that is a separate index.
<b>E Hereford/Pittsburg (NEAHPITT)</b>	<i>Daily GPI (4/1/20)</i> <i>Weekly GPI (4/6/20)</i> <i>Bidweek (Apr-20)</i>	Comprised of deals transacted at the interconnection between TC Energy Mainline and PNGTS at East Hereford, CA / Pittsburg, NH.
<b>PNGTS Non-Border (NEAPNGTSNBDR)</b>	<i>Daily GPI (4/1/20)</i> <i>Weekly GPI (4/6/20)</i> <i>Bidweek (Apr-20)</i>	Consists of all other transactions along PNGTS not conducted at the U.S/Canadian border.
<b>Tennessee Zn 5 Line 200 (NEATENN5L200)</b>	<i>Daily GPI (10/3/11)</i> <i>Weekly GPI (10/10/11)</i> <i>Bidweek (Oct-11)</i>	Includes transactions included in our separate Tennessee Zn 5 Line 200 – West and Tennessee Zn 5 Line 200 – East indexes. Overall, Tennessee Gas Pipeline’s Zone 5 starts with the Clymer (#224) Compressor Station in Southwest NY to the NY/MA border. Our index does not include trades at the Niagara interconnect with TransCanada PipeLine, since those deals are part of a separate Niagara index.
<b>Tennessee Zn 5 Line 200 – East (NEATENN5E)</b>	<i>Daily GPI (11/1/18)</i> <i>Weekly GPI (11/5/18)</i> <i>Bidweek (Nov-18)</i>	Transactions along the 200 Line of Tennessee Zone 5 that are downstream of Compressor Station 245.
<b>Tennessee Zn 5 Line 200 – West (NEATENN5W)</b>	<i>Daily GPI (11/1/18)</i> <i>Weekly GPI (11/5/18)</i> <i>Bidweek (Nov-18)</i>	Deals along the 200 Line of Tennessee Zone 5 that are upstream of Compressor Station 245.
<b>Tennessee Zn 5 Line 300 (NEATENN5L300)</b>	<i>Daily GPI (10/3/11)</i> <i>Weekly GPI (10/10/11)</i> <i>Bidweek (Oct-11)</i>	Comprised of all points along the 300 Leg in Tennessee Gas Pipeline’s Zone 5. Line 300 starts at the New York side of the NY/PA border in Steuben County, NY, up to (but not including) the Clifton Springs (#237) Compressor Station in Ontario County, NY.
<b>Tennessee Zn 6 Line 200 (NEATENN6L200)</b>	<i>Daily GPI (10/3/11)</i> <i>Weekly GPI (10/10/11)</i> <i>Bidweek (Oct-11)</i>	Deals from our Tennessee Zn 6 Line 200 – North and Tennessee Zn 6 Line 200 – South indexes. Tennessee Pipeline Zone 6 includes all points in Rhode Island, Massachusetts, New Hampshire, and the lateral that extends from Massachusetts into Western Connecticut.
<b>Tennessee Zn 6 Line 200 – North (NEATENN6N)</b>	<i>Daily GPI (11/1/18)</i> <i>Weekly GPI (11/5/18)</i> <i>Bidweek (Nov-18)</i>	Trades on the 200 Line of Tennessee Pipeline within its Zone 6 that are delivered downstream of Compressor Station 267.
<b>Tennessee Zn 6 Line 200 – South (NEATENN6S)</b>	<i>Daily GPI (11/1/18)</i> <i>Weekly GPI (11/5/18)</i> <i>Bidweek (Nov-18)</i>	Includes transactions along the 200 Line of Tennessee Pipeline’s Zone 6 that are delivered upstream of Compressor Station 267
<b>Tennessee Zn 6 Line 300 (NEATENN6L300)</b>	<i>Daily GPI (10/3/11)</i> <i>Weekly GPI (10/10/11)</i> <i>Bidweek (Oct-11)</i>	Encompasses all transactions on Line 300 within the State of Connecticut.
<b>Transco Zone 6, Non-NY (NEATZ6NNY)</b>	<i>Daily GPI (2/4/98)</i> <i>Weekly GPI (2/9/98)</i> <i>Bidweek (Mar-98)</i>	A volume weighted average of the separate Transco-NNY North and South indexes.

## Northeast

Index	Start Dates	Description
<b>Transco Zone 6 Non-NY North (NEATZ6NNYN)</b>	<i>Daily GPI (8/1/14)</i> <i>Weekly GPI (8/4/14)</i> <i>Bidweek (Aug-14)</i>	Includes all transactions within Transco Zone 6 north of Compressor Station 195 in York County, PA, with the exception of those areas specified in our Transco Zone 6 NY and Leidy Line indexes. Deals at Leidy, PA are also excluded from this listing, as those are reflected in a separate index.
<b>Transco Zone 6 Non-NY South (NEATZ6NNYS)</b>	<i>Daily GPI (8/1/14)</i> <i>Weekly GPI (8/4/14)</i> <i>Bidweek (Aug-14)</i>	Contains all deals from the beginning of Transco Zone 6 at the Virginia/Maryland border to Station 195 in York County, PA.
<b>Transco Zone 6, NY (NEATZ6NY)</b>	<i>Daily GPI (2/4/98)</i> <i>Weekly GPI (2/9/98)</i> <i>Bidweek (Mar-98)</i>	Our Transco Zone 6 NY index captures deals delivered to the various utilities that are downstream of Linden, NJ. Those include PSE&G, National Grid (formerly KeySpan), and ConEd.

## Rocky Mountains

Index	Start Dates	Description
<b>Cheyenne Hub (RMTCHEY)</b>	<i>Daily GPI (10/3/00)</i> <i>Weekly GPI (10/9/00)</i> <i>Bidweek (Nov-00)</i>	Deliveries into and receipts from the Cheyenne Hub in Weld County, CO. Interconnecting pipelines include Cheyenne Plains, Colorado Interstate Gas (CIG), Kinder Morgan Interstate Gas Transmission (KMIGT), Public Service of Colorado, Rockies Express, Southern Star, Trailblazer, and Wyoming Interstate Company (WIC).
<b>CIG (RMTCIG)</b>	<i>Daily GPI (4/27/98)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Our CIG index includes all deliveries into the CIG system that are both west AND south of the Rawlins Compressor Station in Carbon County, WY. This includes the west-east lateral from Opal to Rawlins, the north-south line from Wamsutter to Greasewood/Parachute, and the west-east lateral from Natural Buttes, UT to Greasewood/Parachute.
<b>CIG DJ-Basin (RMTCIGDJ)</b>	<i>Daily GPI (7/2/12)</i> <i>Weekly GPI (7/9/12)</i> <i>Bidweek (Jul-12)</i>	Contains deliveries into the CIG system between (and including) the Cheyenne Compressor Station at the WY/CO border, and the Kit Carson Compressor Station in Southeast CO. Our index includes deals on the portion of the line marked by the Totem, Fort Morgan, Niobrara, and Latigo Compressor Stations, but does not include transactions on the portion of the pipeline that extends due south from Watkins.
<b>El Paso Bondad (RMTEPBON)</b>	<i>Daily GPI (7/2/97)</i> <i>Weekly GPI (7/7/97)</i> <i>Bidweek (Jul-97)</i>	Incorporates deliveries to the Bondad Compressor Station in La Plata County, CO, near the Colorado/New Mexico border. Excludes receipts within what El Paso Natural Gas calls the Bondad Pool, as those are part of our El Paso San Juan index.
<b>El Paso San Juan (RMTEPSJ)</b>	<i>Daily GPI (4/7/95)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Our El Paso Non-Bondad index incorporates deliveries into the Blanco, Bondad and Rio Vista pools of the region El Paso calls the San Juan Basin. These areas lie primarily within San Juan and McKinley Counties in New Mexico. More specifically, our index includes deals done just south of the Bondad Compressor Station at the Colorado/New Mexico border to the Window Rock Station at the Arizona/New Mexico border. We also include the small lateral between the Valve City and the Bluewater Station. NOTE: We changed the name of this index from El Paso Non-Bondad to El Paso San Juan on November 1, 2018, but our point description did not change at that time.



## Rocky Mountains

Index	Start Dates	Description
<b>Kern River (RMTKR)</b>	<i>Daily GPI (4/27/98)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Our Kern River index is designed to capture activity in Wyoming. We therefore only include deliveries into Kern River that occur in Fuel Zones #1-#4, or within its Muddy Creek, Questar, Painter, and Anschutz supply pools, as they are defined in the Kern River tariff. Our index also includes transactions done into and out of Kern River at Opal.
<b>Kingsgate (RMTKING)</b>	<i>Daily GPI (4/27/98)</i> <i>Weekly GPI (12/5/94)</i> <i>Bidweek (Dec-94)</i>	Deliveries from TransCanada Pipeline into TransCanada's Gas Transmission Northwest (GTN) system at the Canada/U.S. Border in Kingsgate, BC. Prices are listed in \$US/MMbtu.
<b>Northwest S. of Green River (RMTNWSGR)</b>	<i>Daily GPI (4/2/01)</i> <i>Weekly GPI (4/2/01)</i> <i>Bidweek (Apr-01)</i>	All deliveries into Northwest Pipeline system south of Green River, including the Rocky Mountains, Piceance, and San Juan pools, but excluding deals at the La Plata interconnect with El Paso.
<b>Northwest Rockies (RMTNWRCKS)</b>	<i>Daily GPI (N/A)</i> <i>Weekly GPI (N/A)</i> <i>Bidweek (Jun-19)</i>	Incorporates transactions from the Northwest Wyoming and Rocky Mountain pools only. Excludes trades conducted within the San Juan pool.
<b>Northwest Sumas (RMTSUMAS)</b>	<i>Daily GPI (4/27/98)</i> <i>Weekly GPI (12/5/94)</i> <i>Bidweek (Dec-94)</i>	Deliveries from Westcoast Energy Pipeline into Northwest Pipeline at the Sumas, WA/Huntington, BC border. Prices are listed in \$US/MMbtu.
<b>Northwest Wyoming Pool (RMTNWW)</b>	<i>Daily GPI (4/27/98)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Includes receipts within the Northwest Pipeline Wyoming Pool, including deals at Opal.
<b>Opal (RMTOPAL)</b>	<i>Daily GPI (7/13/93)</i> <i>Weekly GPI (9/6/99)</i> <i>Bidweek (Sep-99)</i>	Includes deals done at the Opal Hub in Lincoln County, WY. Our index also contains deals done at the Muddy Creek Compressor station, and the Pioneer, Hams Fork, and Roberson Creek receipt points along Kern River Pipeline. Connecting pipelines in the Opal area include Kern River, Northwest, Colorado Interstate Gas (CIG), Rockies Express, Ruby Pipeline, Questar, Overthrust Pipeline, and Wyoming Interstate Company (WIC).
<b>Questar (RMTQUEST)</b>	<i>Daily GPI (4/27/98)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Our Questar index includes deliveries into both the North and South systems, and the lateral that connects the two. Although there is no official demarcation point between the North & South systems per se, a Questar representative told <i>NGI</i> that for internal purposes, the company uses the Clay Basin storage field in Northeast Utah as the dividing point between the two areas. Our Questar index does not include transactions into Opal, since those are covered by a separate index.
<b>Ruby – Receipts (RMTRUBYR)</b>	<i>Daily GPI (4/25/17)</i> <i>Weekly GPI (5/1/17)</i> <i>Bidweek (N/A)</i>	Includes all deliveries into Ruby Pipeline in Lincoln and Uinta Counties, WY.
<b>Stanfield (RMTSTAN)</b>	<i>Daily GPI (4/27/98)</i> <i>Weekly GPI (12/5/94)</i> <i>Bidweek (Dec-94)</i>	Deliveries into/from Northwest Pipeline from/into Gas Transmission Northwest (GTN) at Stanfield, OR in Umatilla County.
<b>Transwestern San Juan (RMTTWSJ)</b>	<i>Daily GPI (2/1/10)</i> <i>Weekly GPI (6/20/88)<sup>2</sup></i> <i>Bidweek (Jul-88)<sup>2</sup></i>	Includes receipts within Transwestern's San Juan Pool. The San Juan pool begins at La Plata, CO (Ignacio), and extends to the Thoreau Compressor Station in Northwest New Mexico. This index includes transactions at the Blanco Hub in New Mexico.
<b>White River Hub (RMTWHITERVR)</b>	<i>Daily GPI (8/18/09)</i> <i>Weekly GPI (8/24/09)</i> <i>Bidweek (Sep-09)</i>	The White River Hub is a joint venture between Questar Pipeline and Enterprise Product Partners, and exists primarily to handle production from the Piceance Basin. The Hub itself is located in Northwest Colorado, and is actually the combination between Enterprise's Meeker, CO Processing Plant and pipeline interconnections with Questar Pipeline, Rockies Express, TransColorado, Colorado Interstate Gas, Wyoming Interstate Company, Northwest Pipeline, and Williams Field Services' Parachute Lateral.

## Arizona/Nevada

Index	Start Dates	Description
El Paso S. Mainline/N. Baja (ARNBAJAN)	Daily GPI (9/1/04) Weekly GPI (9/6/04) Bidweek (Sep-04)	Includes deliveries into the mainline portion of El Paso's South System, which begins with the terminus of the "Permian Virtual Area" at the Cornudas Compressor Station in W. Texas up to, but not including, Ehrenberg, AZ at the California Border. Deliveries from the North Baja Pipeline system in SW Arizona are included, as are gas flows from the Havasu and Manicopa Crossovers.
Kern Delivery (ARNKERDEL)	Daily GPI (9/1/04) Weekly GPI (9/6/04) Bidweek (Sep-04)	Contains deliveries of gas within Kern River's Fuel Zone #11 (Las Vegas Area) and Zones #12 & #13 (California). These zones lie downstream of the Dry Lake Compressor Station that is located just outside of Las Vegas. However, our index does not incorporate transactions at Wheeler Ridge, Daggett, or Kramer Junction, as those are included in our various Southern California Border indexes, as described below.

## California

Index	Start Dates	Description
Malin (CALM400)	Daily GPI (6/11/96) Weekly GPI (6/20/88) Bidweek (Nov-93)	Comprised of deliveries from TransCanada's GTN Pipeline and El Paso/Kinder Morgan's Ruby Pipeline into PG&E's Redwood Path at Malin, Oregon.
PG&E Citygate (CALPGCG)	Daily GPI (3/3/98) Weekly GPI (3/2/98) Bidweek (Mar-98)	Deliveries to customers behind PG&E's local distribution system in Northern California.
SoCal Citygate (CALSCG)	Daily GPI (10/1/08) Weekly GPI (10/6/08) Bidweek (Oct-08)	Deliveries to customers behind Southern California Gas' local distribution system in Southern California. Includes storage deals.
Southern Border, PG&E (CALSPGE)	Daily GPI (9/30/08) Weekly GPI (4/2/01) Bidweek (Apr-01)	Incorporates transactions into the Pacific Gas & Electric system's Line 300 (aka "Baja Path") segment at the following pipeline interconnects: El Paso Natural Gas at Topock, AZ; Transwestern Pipeline at Topock, AZ; Kern River Pipeline at Daggett, CA; gas delivered along Kern River's High Desert Lateral; SoCal Gas at Kern River Station; and Questar's Southern Trails Pipeline at Essex, CA. NOTE: We show a separate breakout of Daggett and Topock below, for additional granularity, but our Southern Border, PG&E index is in fact a combination of all the points listed above.
Southern Border, SoCal (CALSSOCAL)	Bidweek (Jul-88)	Comprised of deliveries into the Southern California Gas system via the following pipeline interconnects: 1.) Northern Zone: El Paso at Topock, AZ; Transwestern at Topock, AZ and Needles, CA; Questar Southern Trails at Needles, CA; and Kern River and Mojave Pipelines at Kramer Junction, CA 2.) Southern Zone: El Paso at Ehrenberg, AZ, and North Baja at Blythe, CA 3.) Wheeler Ridge Zone: Kern River and Mojave Pipelines at Wheeler Ridge, CA, and deliveries from the PG&E system at Kern River Station, CA. Our index does not include any gas sourced from Mexico via TGN at Otay Mesa, CA. <b>NOTE: (1) We began including deliveries at Blythe, CA in this index in October 2018. However, this should not have a material impact on most days, as daily receipts into SoCal at Blythe tend to be low. Otherwise, this index is unchanged from the previous version of this methodology. (2) We currently do not list a specific Southern Border, SoCal index in our Daily &amp; Weekly GPI newsletters. But please note this price is exactly the same as the Southern California Border Average that we run in all three versions of our Gas Price Index newsletters. Therefore, the SoCal Border Average we run in Daily GPI &amp; Weekly GPI doubles as our SoCal Border, SoCal listing in those two publications as well.</b>

## California

Index	Start Dates	Description
<b>SoCal Border – Blythe (CALSAVG BLY)</b>	<i>Daily GPI (10/9/18)</i> <i>Weekly GPI (10/15/18)</i> <i>Bidweek (11/1/18)</i>	Deliveries into Southern California Gas via North Baja at Blythe, CA.
<b>SoCal Border – Ehrenberg (CALSAVG EH)</b>	<i>Daily GPI (10/9/18)</i> <i>Weekly GPI (10/15/18)</i> <i>Bidweek (11/1/18)</i>	Deliveries into the Southern California Gas system Southern Zone via El Paso Natural Gas at Ehrenberg, CA. Our index does not include trades into North Baja at Ehrenberg.
<b>SoCal Border – Kern River Station (CALSAVG KRS)</b>	<i>Daily GPI (10/9/18)</i> <i>Weekly GPI (10/15/18)</i> <i>Bidweek (11/1/18)</i>	Deliveries from the PG&E system at Kern River Station, CA.
<b>SoCal Border – Kramer (CALSAVG KR)</b>	<i>Daily GPI (10/9/18)</i> <i>Weekly GPI (10/15/18)</i> <i>Bidweek (11/1/18)</i>	Transactions received into the Southern California Gas from the Kern River/Mojave system at Kramer Junction, CA.
<b>SoCal Border – Needles (CALSAVG NE)</b>	<i>Daily GPI (10/9/18)</i> <i>Weekly GPI (10/15/18)</i> <i>Bidweek (11/1/18)</i>	Deals into the Southern California Gas system at Needles, CA, from both Transwestern Pipeline and Southern Trails.
<b>SoCal Border – Topock (CALSAVG TP)</b>	<i>Daily GPI (10/9/18)</i> <i>Weekly GPI (10/15/18)</i> <i>Bidweek (11/1/18)</i>	Trades into the Southern California Gas system via El Paso Natural Gas and Transwestern at Topock, AZ.
<b>SoCal Border – Wheeler Ridge (CALSAVG WR)</b>	<i>Daily GPI (10/9/18)</i> <i>Weekly GPI (10/15/18)</i> <i>Bidweek (11/1/18)</i>	Receipts with Southern California Gas' Wheeler Ridge Zone. Specifically, our Wheeler Ridge index includes transactions from Kern River/Mojave, and from PG&E at Kern River Station. SoCal Gas also receives a de minimis amount of gas from the Elk Hills Oil Field within this zone, but we do not include those flows in this index.
<b>Southern California Border Average (CALSAVG)</b>	<i>Daily GPI (4/2/01)</i> <i>Weekly GPI (6/20/88)</i> <i>Bidweek (Jul-88)</i>	Our Southern California Border Average is a simple repeat of our Southern Border, SoCal index. There are no deliveries into PG&E in this posting.

## Canada

Index	Start Dates	Description
<b>Alliance (APC) – ATP (CDNCREC)</b>	<i>Daily GPI (11/1/18)</i> <i>Weekly GPI (11/5/18)</i> <i>Bidweek (Nov-18)</i>	Deliveries into the Alliance Pipeline system anywhere in Canada.
<b>Empress (CDNEMP)</b>	<i>Daily GPI (6/1/09)</i> <i>Weekly GPI (12/5/94)<sup>6</sup></i> <i>Bidweek (Dec-94)<sup>7</sup></i>	Transactions conducted at the Empress/McNeill Border point at the Alberta/ Saskatchewan border. This point connects the TransCanada Alberta System (NOVA) to TransCanada Mainline, and Foothills Pipeline. Reported in \$C/GJ.
<b>NOVA/AECO C (CDNNOVA)</b>	<i>Daily GPI (3/1/02)</i> <i>Weekly GPI (12/5/94)</i> <i>Bidweek (Dec-94)</i>	Includes fixed priced deals that are conducted anywhere within TransCanada's Alberta System, otherwise known as NOVA. The AECO Hub is a trademarked name used to describe Niska Gas Storage's two facilities (Suffield and Countess), but the pricing point AECO C is a virtual point that has come to mean all gas that is traded along NOVA under the provisions of the NOVA Inventory Transfer service. Per the TransCanada website: "The terms AECO Hub, NIT and Alberta Hub increasingly are being used interchangeably to refer to the Alberta gas price and the Alberta pricing point. Pricing is determined at NIT, a notional location on the Alberta System." Reported in \$C/GJ. Our index does not include basis trades, since those are traded in \$US/MMBtu.

## Canada

Index	Start Dates	Description
<b>Westcoast Station 2 (CDNWST2)</b>	<i>Daily GPI (9/1/04)</i> <i>Weekly GPI (9/6/04)</i> <i>Bidweek (Sep-04)</i>	Gas delivered into Station 2 along Spectra's Westcoast Energy (WEI) pipeline. Station 2 is located near Chetwynd, BC, and is the main aggregation point from which supplies from the Northeastern part of British Columbia are shipped south along the main WEI pipeline. Reported in \$C/GJ.

## Regional Averages & NGI's National Spot Market Average

Index	Start Dates	Description
<b>Regional Averages</b>	<i>Daily GPI (10/22/13)</i> <i>Weekly GPI (10/28/13)</i> <i>Bidweek (11/1/13)</i>	The various regional averages (South Texas, West Texas, Appalachia, etc.) are simple averages of average price of each index within the region. However, the volumes and deal counts for regional averages are not a simple sum of the volumes and deals listed in the table, because if we did that, we would double count transactions in other listed indexes. For example, our El Paso Permian index is the sum of the three individual El Paso Keystone, Plains, and Waha pools, so simply totaling the published volumes in the table would double count those three breakout listings. Similarly, we use Alliance deals in both our Alliance and Joliet indexes, so summing those would double count those Alliance trades. Therefore, the way to interpret the total volume and deals figures for each regional average is they are the sum of all the individual transactions used in the various indexes in each section, with each transaction counted only once. The low price for a regional average represents the lowest price of gas traded at published locations within the region rounded down and the high price represents the highest price of gas traded at published locations within the region, rounded up.
<b>NGI's National Spot Market Average</b>	<i>Daily GPI (10/22/13)</i> <i>Weekly GPI (10/28/13)</i> <i>Bidweek (11/1/13)</i>	Our National Average price is a simple average of the average price of each location within the U.S. The National Average volume and deal count figures represent the sum of the volumes and deals at each location in the U.S., excluding the double counting process as explained in the Regional Averages section above. The low price represents the lowest price of gas traded at published locations within the U.S. rounded down and the high price represents the highest price of gas traded at published locations within the U.S., rounded up.

## A Note About Assessments

NGI always has been a leader when it comes to our efforts to increase reporting participation and overall liquidity in North American natural gas price indexes. We became the first natural gas price reporting agency to incorporate Intercontinental Exchange (ICE) data into our indexes in 2008, and since then, we have continued to work with companies to help them understand the benefits of contributing to the voluntary system of price reporting.

While we strive to construct each of our price indexes from actual market deals, we also understand that, under certain circumstances, there may be times when there is not a sufficient number of reported deals from which to determine a volumetric weighted-average price. Under such circumstances, it may be necessary for NGI to take into account other factors including, but not limited to, locational basis relationships, transportation rates, bid/ask spreads, and historical pricing trends in order to assess what a price would have been for flow dates in question. Should NGI assess a price in a manner other than a volumetric weighted-average, we would denote this via the following:

### ***Published PDF Newsletters & Web-based Price Tables***

In our PDF newsletters (ex. NGI's Bidweek Survey) and their corresponding online price tables, NGI would designate an assessed price by appending an asterisk to the end of the location name. Additionally, NGI would provide an assessment rationale in a footnote to these PDF and Web-based Price Tables.

### ***Datafeed Services***

NGI's data are offered via web and FTP. Price locations that have been assessed would be denoted with a 0 volume. It is neither feasible nor practical to include an assessment rationale in these data files as errant text or characters would break the scripts and processes that are set up to consume these data.

### ***How Assessed Daily Prices Impact Weekly GPI & Monthly Cumulative Average Prices***

Assessed prices that occur in Daily GPI are included in the Weekly GPI and Monthly Cumulative averages. When this occurs, the Weekly GPI location will be marked with an asterisk in the PDF and HTML price tables. In the Weekly GPI datafeed, the volume and deal count figures will represent the total volume and deal count for the week with the assessed day counting for zero in both sums. However, any assessed day prices for that location will share equal weight (with any non-assessed prices) in the calculation of Weekly Price averages.

Please contact [info@naturalgasintel.com](mailto:info@naturalgasintel.com) to be added to the distribution of NGI's PDF files that will include assessment rationales, where/when applicable. If you have any questions or comments regarding these changes, please contact Dexter Steis [dexter.steis@naturalgasintel.com](mailto:dexter.steis@naturalgasintel.com) (703) 318-8848 or Patrick Rau [pat.rau@naturalgasintel.com](mailto:pat.rau@naturalgasintel.com) (347) 385 -8412. We welcome your feedback.

### **Footnotes:**

<sup>1</sup>NGI ran a Tennessee East Texas index price in the Weekly GPI from 6/20/88 – 8/30/99, and in the Bidweek Survey from July 1988 – August 2004. Both indexes resumed when NGI began publishing its Tennessee Zone 0 North index in October 2010.

<sup>2</sup>Our Transwestern San Juan index first ran in the Weekly GPI from 6/20/88 – 8/30/99, before reappearing on 2/8/10. In the Bidweek Survey, the Transwestern San Juan index appeared from July 1988-May 2001, before being re-established in Feb 2010.

<sup>3</sup>NGI discontinued the Daily version of the Algonquin Receipts index on 6/30/03, and resumed it on 9/20/10.

<sup>4</sup>NGI discontinued the Weekly version of the Algonquin Receipts index on 6/30/03, and resumed it on 10/4/10.

<sup>5</sup>NGI discontinued the Bidweek version of the Algonquin Receipts index in June 2003, and resumed it in October 2010.

<sup>6</sup>NGI suspended its Weekly Empress index from 6/1/98 – 6/1/09.

<sup>7</sup>NGI halted the Bidweek version of its Empress index from March 1998 – June 2009.

<sup>8</sup>All storage prices include injections and withdrawals. We will also include the deals that make up these storage indexes in the appropriate delivered-to-pipeline indexes, when applicable.