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OVERVIEW

The Perryman Midland and Permian Basin Indices were up slightly in May. Although energy was down, several other sectors experienced notable gains resulting in an overall increase in the composite index.

The US economy continues to show notable resilience, gaining almost 1.8 million net new jobs over the twelve-month period ending June 2025 for an annual employment growth rate of 1.10%. The unemployment rate has risen slightly on a year-over-year basis but is down somewhat over the past few months. One reason for the decline is that the size of the civilian labor force has decreased over the past several months partially in response to people leaving the country (though it remains notably larger than this time last year).

Recent data has begun to show some effects of tariffs, with prices rising particularly for imported products. However, price declines in other segments such as services and air fares contributed to a smaller increase in overall rates than would have occurred otherwise. As a result, inflation is only trending up modestly at present but will escalate if current and threatened tariffs are implemented and sustained. Modest signs of weakness are emerging in the job market, despite continued hiring at a reasonable pace.

Uncertainty continues to be a drag on the economy, but the resilience of US business activity has thus far held firm. Nonetheless, with key inputs to manufacturing and construction (such as copper and other metals) now priced much higher than in the recent past, it could be only a matter of time before these industries experience notable adverse effects.

The Texas economy continues to outpace the nation, gaining 195,300 net new jobs over the twelve-month period ending June 2025 for an annual employment growth rate of 1.38%. The state's seasonally adjusted unemployment rate in June was 4.04%, down 0.072 percentage points from what it was a year prior and below the national (4.12%) level.

The recent trade agreement with the EU is good news for energy markets and the economy. Although the proposed purchases by the EU of US energy are not legally binding, they are nonetheless an important signal that the US is set to become the EU's more important source of energy. Russia previously filled a large role in supplying EU energy, and it is good for the US energy industry and the Permian Basin to be the intended supplier.

Selected economic indicators and May results for the Midland and Permian Basin indices are summarized in the following pages, with additional detail in the accompanying workbook.

SELECTED MIDLAND ECONOMIC INDICATORS: MAY 2025

Indicator		2023		2024		2025	2024- 25 % Change
Permian Basin Rig Count							
May		352		313		282	-9.78%
Average Year to Date		353		313		296	-5.55%
WTI Oil Price							
May	\$	71.58	\$	80.02	\$	62.17	-22.31%
Average Year to Date	\$	75.85	\$	79.63	\$	68.24	-14.30%
Henry Hub Natural Gas P	rice						
May	\$	2.15	\$	2.12	\$	3.12	+47.17%
Average Year to Date	\$	2.45	\$	2.02	\$	3.80	+87.73%
Housing Permits							
May		85		120		139	+15.83%
Total Year to Date		218		576		610	+5.90%
Average Housing Permit	Value						
May	\$	272,321	\$	160,441	\$	209,265	+30.43%
Average Year to Date	\$	265,287	\$	204,355	\$	208,928	+2.24%
Airline Boardings							
April		51,855		61,502		62,502	1.63%
Total Year to Date		200,683		225,719		229,319	1.59%
Hotel Receipts							
May	\$	12,516,098	\$	12,604,653	\$	13,226,467	+4.93%
Total Year to Date	\$	58,335,342	\$	60,803,730	\$	66,040,426	+8.61%
Employment (Seasonally	Adjusted)						
May		120,900		124,900		127,100	+1.76%
Average Year to Date		119,840		124,480		126,480	+1.61%
Unemployment Rate							
May		2.86%		2.88%		2.99%	N/A
Average Year to Date		2.93%		2.81%		2.96%	N/A
Midland Index (2021=100)							
May		125.1		126.3		124.5	N/A
Average Year to Date		124.5		125.4		124.9	N/A

Source: Baker-Hughes, Energy Information Administration, Census Bureau, Bureau of Transportation Statistics, Texas Comptroller of Public Accounts, Bureau of Labor Statistics, The Perryman Group

MIDLAND MSA

The Midland Economic Index measured 124.5 in May, up by 0.1. The Energy segment was down by -0.8, and several other industries decreased including Financial Services (-5.5). However, gains occurred in Construction, up +22.2, as well as Real Estate and Health Care.

MIDLAND MSA ECONOMIC INDEX

RECENT RESULTS (2012=100)

Current Index Reading	124.5
Change from Previous Month	Up 0.1

MIDLAND MSA ECONOMIC INDEX

RESULTS BY INDUSTRY (2012=100)

Industry	April	May	Change
Energy	116.0	115.2	-0.8
Construction	163.0	185.2	+22.2
Manufacturing	138.0	138.1	+0.1
Retail	129.8	129.1	-0.7
Financial Services	220.9	215.4	-5.5
Real Estate	141.0	146.8	+5.8
Professional & Business Services	132.5	132.5	+0.0
Health Care	135.2	137.5	+2.3
Hospitality & Tourism	160.6	161.0	+0.4
Other Activity	144.7	144.6	-0.1
Midland Composite	124.4	124.5	+0.1

Note: Industries are not weighted equally in calculating the Industry Composite; see the Appendix for further explanation. The Midland Metropolitan Statistical Area (MSA) includes Midland and Martin counties

Source: The Perryman Group



Midland Economic Index

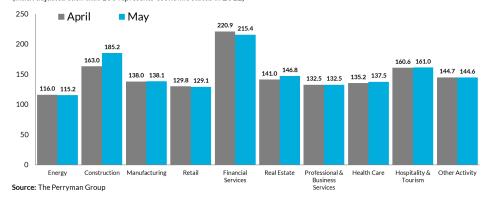
(Index adjusted such that 100 represents economic status in 2012)



Source: The Perryman Group

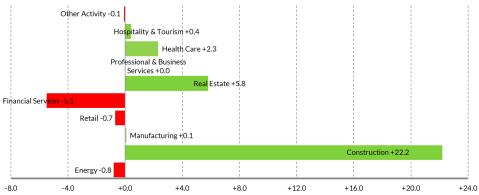
Midland Economic Index

Recent values by sector (Index adjusted such that 100 represents economic status in 2012)



Midland Economic Index

Change from previous month by sector



Source: The Perryman Group

PERMIAN BASIN REGION

The Permian Basin Economic Index for May measured 113.4, indicating an increase from the prior month of 0.1.

The Energy segment was down by -0.9, but Construction increased by +26.0. Performance across other industry groups was mixed, with increases in Real Estate, Health Care, and several other industries while losses occurred in Financial Services. Manufacturing, Retail, and Professional & Business Services.

Current Index Reading	113.4
Change from Previous Month	Up 0.1

PERMIAN BASIN ECONOMIC INDEX

RESULTS BY INDUSTRY (2012=100)

Industry	April	May	Change
Energy	105.7	104.8	-0.9
Construction	158.9	184.9	+26.0
Manufacturing	101.8	100.8	-1.0
Retail	138.6	137.9	-0.7
Financial Services	137.8	135.6	-2.2
Real Estate	136.0	141.8	+5.8
Professional & Business Services	132.1	131.9	-0.2
Health Care	126.6	127.9	+1.3
Hospitality & Tourism	158.6	158.7	+0.1
Other Activity	140.2	140.3	+0.1
Permian Basin Composite	113.3	113.4	+0.1

Note: Industries are not weighted equally in calculating the Industry Composite; see the Appendix for further explanation. The Permian Basin Region includes Andrews, Borden, Crane, Dawson, Ector, Gaines, Glasscock, Howard, Loving, Martin, Midland, Pecos, Reeves, Terrell, Upton, Ward, and Winkler counties. Source: The Perryman Group



Permian Basin Economic Index

(Index adjusted such that 100 represents economic status in 2012)

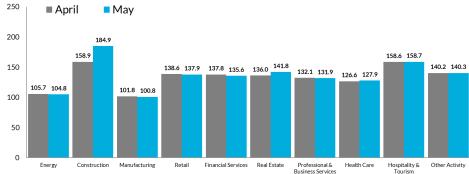


Source: The Perryman Group

Permian Basin Economic Index

Recent values by sector

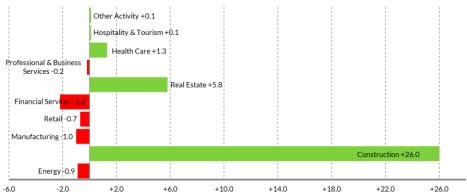
(Index adjusted such that 100 represents economic status in 2012)



Source: The Perryman Group

Permian Basin Economic Index

Change from previous month by sector



Source: The Perryman Group

METHODOLOGY

The goal of the Midland and Permian Basin indices is to encapsulate, in a single measure, the current status of the local and regional economy, how it is changing, and what is driving the change. The indices include measures of industrial performance, with sub-indices for the various components to indicate the role they play in overall performance. The indices are based on complex economic modeling processes, but it provides a simple measure of the health of the local and regional economy and how and why it is changing.

The indices reflect shifts in key industries and performance. The relative weights of each component were determined based on typical patterns in the relationships of variables to overall economic performance. The indices include variables ranging from oil prices to construction which describe the evolving status of key industries. These measures reflect analysis of numerous indicators of the level of activity and how it is changing. Beginning with the May 2025 report, an extensive revision of historical employment data from the Bureau of Labor Statistics in reflected in the Index values.

The Midland and Permian Basin indices were developed and are maintained by The Perryman Group, an economic and financial analysis firm based in Waco, Texas with decades of experience in analyzing the local and regional economies. Dr. M. Ray Perryman, President and CEO of The Perryman Group, has more than 40 years of experience in index construction and regional economic modeling. In particular, Dr. Perryman derived the indices of monetary policy that are used by the Federal Reserve System and

more than 60 other central banks around the world. He also developed regional and small-area indices of Industrial Production and Unit Labor Costs that are widely used on a global basis, as well as measures of systematic risk for non-homogenous assets and the degree of trade integration among nations. Dr. Perryman has been an advisor to the US Department of Labor on the Consumer Price Index as well as numerous other governmental entities on indexrelated issues. He has also developed the world's largest regional econometric modeling system and has been analyzing the economy of Midland and the Permian Basin on an ongoing basis since the mid-1970s.

Index Construction

Economic indices are typically constructed in one of two ways, both of which are widely used and have been successfully employed by Dr. Perryman over the course of his career. One common method is to identify a set of relevant variables and then use principal component analysis (PCA) or a variation (such as a factor rotation) to assign weights to the individual components on an empirical basis. In essence, this process converts a set of variables into an equal number of new measures such that each of the new variables is (1) a linear combination of the original ones and (2) orthogonal to each of the others. The new measures also have the property of collectively containing all of the information in the original variables. When this approach is used, the first principal component (the one which explains the largest percentage of the variation) is typically used to determine the weights in the indices. This approach has advantages in that (1) weights are

empirically generated based on their explanatory power and (2) it is relatively simple to implement. Its major disadvantages are (1) in many instances, particularly where a large number of variables are being examined (as in the current analysis), spurious correlations with relatively minor factors that are unlikely to be sustained over time can occur; (2) the first principle component, despite exhibiting the largest explanatory power, often accounts for only a small amount of the total variation, thus failing to incorporate a substantial portion of the available information.

The second approach is to rely on economic data, theory, and models to develop an index of the desired phenomena. The primary difficulty with this method is the fact that it can become complex in its execution. The advantages are the ability to (1) systematically incorporate very large sets of variables without loss of underlying information, (2) develop sub-indices to provide a focus on specific index elements, and (3) incorporate specific economic content in a detailed and systematic manner.

In the present instance, the second option appeared to be more appropriate in that the process included the incorporation of a complex multi-dimensional framework which allows both individual and integrated consideration of a variety of segments that span multiple sectoral components. Nonetheless, a principal components model was originally attempted for purposes of completeness and to meet the conditions for statistical efficiency. As anticipated, the resulting assessment across a broad spectrum of variables across industries resulted in both weighting on relatively minor variables which were not stable across sub-periods and relatively



little (less than 10 percent) information capture by the primary principal components.
Consequently, the Midland and Permian Basin indices were developed using a more formal and comprehensive data and modeling effort. This process is described below.

Industrial Variations

As noted, the indices seek to encapsulate, in a single measure, the many facets of the local and regional economy. Sub-indices are also generated for key industries in order to examine the various components and the role that they play in overall performance. Aggregates available on a monthly basis are incorporated into the indices in order to permit regular monitoring of changes in business activity. Broader measures (such as total expenditures and gross product by industry) which have greater information content but less frequent periodicity are used in defining the relative weights. In this manner, it is possible to enhance the comprehensiveness of the indices.

The segments of the economy that are included in the indices are:

- Energy,
- Construction (residential and non-residential),
- Manufacturing,
- Retail,
- Financial Services,
- Real Estate,
- Professional & Business Services,
- Health Care,
- Hospitality & Tourism, and
- Other Activity

The relative weights to be applied to each segment were derived based on the stabilized percentage of each sector of a relevant overall aggregate (gross area product).

The next phase of the analysis is the construction of the various sectoral indices. Measures that were available on a monthly basis were employed and were selected based on their role in being reflective of aspects of the relevant segment. They were then tested relative to one another to assure that they were not subject to excessive multicollinearity. Once the final set was determined, each quarterly series was transformed into a common format in which 2012 was defined as equal to 100. The base year is consistent with most official economic series that are presented either as indices or on a constant-dollar basis. All monetary values were similarly expressed in constant 2012 dollars to avoid artificial growth generated by inflation. In a few instances, quarterly series were converted to monthly aggregates using a regression approach developed by Dr. Perryman that is widely utilized throughout the world.

The variables utilized in the indices include items such as oil and gas prices, rig counts, retail sales, single and multi-family housing permits and values, housing sales and values, bank loans and deposits, employment by detailed industrial category, and numerous other factors. Where appropriate, inputs were adjusted to eliminate seasonal patterns that are not reflective of underlying economic conditions.

In each of the indices, the weights assigned to the individual components are determined based on the relative standard errors of the normalized values. This approach allows greater weight to be assigned to those measures

which exhibit more pronounced fluctuations to influence industry performance. These individual sectoral indices were aggregated into an overall Composite Index using the weighting described above. Separate individual sectoral measures and Composite Index values were generated for the Midland Metropolitan Statistical Area and the Permian Basin Region. It should be noted that the monthly indices always use the latest available economic data. Because much of the information normally is subject to both short-term revisions and periodic benchmarking, historical values will often change from month to month. These variations are typically minor.

Historical Performance

Historical performance of components of the Midland and Permian Basin indices are provided in the accompanying workbook.

Conclusion

The Midland and Permian Basin indices provide a measure of changes in the economy that is easy to grasp and compare over time. Although the modeling process that went into the indices was complex, the result is a simple and straightforward assessment of the direction of patterns in business activity and the reasons for changes in overall performance.

THE PERRYMAN GROUP



The Perryman Group is a focused team of analysts who know how to address complex economic information tasks and present our findings effectively.

Our in-house professionals bring expertise in economics, finance, statistics, mathematics, real estate, valuation, systems analysis, engineering, technical communications, and marketing. Dr. Ray Perryman, President and CEO, has 40 years of experience in developing systems, analyzing complex problems, and communicating effectively. We have considerable pride in what we do. Our enthusiasm is both unbridled and contagious; every day brings a new opportunity for us to tackle a different problem or create a product or service specifically tailored to our clients.

OUR SERVICES

IMPACT ASSESSMENT

We have developed and continually maintain an extensive set of economic impact evaluation models that can be applied in a variety of contexts.

EXPERT TESTIMONY

We help clients analyze and communicate complex information in common-sense terms through comprehensive, objective analyses and clear, concise expert reports and presentations.

FORECASTING

We are at the cutting edge of econometrics and other advanced statistical methods and have provided innovative approaches for many complex applications.

SPEECHES

Dr. Perryman addresses dozens of audiences throughout the world every year, catering to a wide variety of events.

M. RAY PERRYMAN, PH.D.

Dr. Ray Perryman is President and CEO of The Perryman Group, an economic research and analysis firm based in Waco, Texas. His firm has served the needs of more than 3,000 clients, including two-thirds of the Global 25, over half of the Fortune 100, the 12 largest technology firms in the world, 12 US Cabinet Departments, the 9 largest firms in the US, the 6 largest energy companies operating in the US, and the 5 largest US banking institutions.

Dr. Perryman was named Outstanding Young Person of the World for Business and Economic Innovation in 1987 and was designated Texan of the Year by the Texas Legislative Conference in 2012. He received the Baylor University Distinguished Service Medal in 2013, was inducted into the Texas Leadership Hall of Fame in 2014, received the Cesar E. Chavez Conscience Builders Award in 2016 for his

humanitarian efforts, and received
the Lifetime Achievement Award
for philanthropy from the
Association of Fundraising
Professionals in 2023. He
dedicates a significant portion
of his time to pro bono
work aimed at helping to
solve pressing social
problems such as
hunger, indigent
healthcare, poverty,

and child maltreatment.