

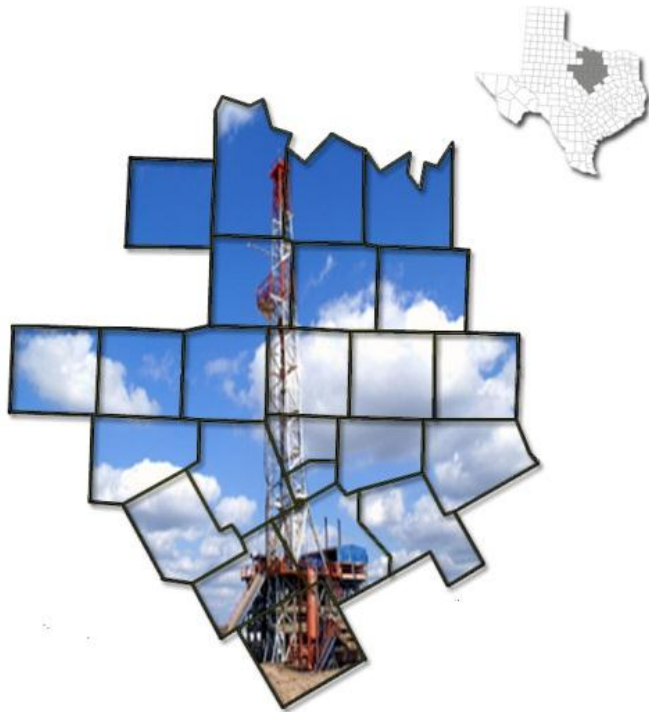
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# A Decade of Drilling

August 2011

The Impact of the Barnett Shale on Business Activity  
in the Surrounding Region and Texas:  
An Assessment of the First Decade of Extensive  
Development

Prepared for  
The Fort Worth Chamber of Commerce



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# INTRODUCTION



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# INTRODUCTION

- The **Barnett Shale is a large natural gas shale formation known to cover more than 5,000 square miles of North Texas, much of it beneath urban areas of Fort Worth and other Metroplex cities.** It was discovered in the early 1980s, and several factors induced substantial development beginning in approximately 2001 (most notably a combination of technological improvements in recovery methods and a favorable price environment).
- In the years that followed, production from the Barnett Shale greatly exceeded even the most optimistic expectations. While lower prices and the national recession temporarily slowed development, **ongoing production continues to provide a variety of benefits and drilling and exploration activity is once again beginning to increase.**
- The Perryman Group (TPG) has previously studied the economic impact of the Barnett Shale in select years and found that it has generated thousands of jobs and tens of billions of dollars in investment. Direct spending for exploration and production activity related to the Barnett Shale leads to multiplier effects through the economy which, in turn, initiate a chain of spillover **business stimulus throughout the area.**
- Barnett Shale activity **also benefits both state and local governments** through property taxes, severance tax, enhanced retail sales and real estate development, permits and fees, and other types of levies such as hotel/motel occupancy taxes and receipts stemming from various taxable activities. Furthermore, money received by local governments, schools, businesses, and individuals in the form



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of royalties and bonuses paid by natural gas operators has been significant in many areas, enhancing the quality of life as well as economic opportunities.

- The Perryman Group (TPG) was asked to evaluate the impact of the Barnett Shale on the local and state economies over the initial decade of extensive development. This report presents the findings from TPG's analysis.

## Highlights of Study Findings

- More than **9 trillion cubic feet** of natural gas have been produced from the Barnett Shale.
  - Currently, **24 counties** have producing wells, with permits issued for a 25<sup>th</sup> county.
  - Although exploration activity slowed during the economic downturn, production from the Barnett Shale continued to rise, topping **1.8 trillion cubic feet in 2010**.
  - More than **70 rigs** are currently drilling in the Barnett Shale.
- The Perryman Group estimated the positive effect of Barnett Shale-related activity on the regional and state economies. This economic stimulus stems from (1) exploration, drilling, and related activity; (2) pipeline investments and related operations; and (3) royalties and lease bonuses. In addition, the oil and gas companies involved donate millions to area charities and pay substantial ad valorem taxes.
- The Perryman Group estimated the **2011 total effect of Barnett Shale activity** to include **\$11.1 billion in annual output and 100,268 jobs in the region**. While the majority of the stimulus



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comes from exploration and drilling, pipeline development and royalty and lease payments also contribute to the overall impact.

- For the **state as a whole**, Barnett Shale-related activity leads to estimated **2011 gains in output (gross product) of almost \$13.7 billion as well as 119,216 jobs.**
- The Perryman Group estimates that the **cumulative economic benefits during the 2001-2011 period include \$65.4 billion in output (gross product) and 596,648 person-years of employment in the region.** For the **state as a whole** (including the Barnett Shale region), the total benefits over the 2001-2011 period were found to include **\$80.7 billion** in output (gross product) and **710,319 person-years** of employment.
- Clearly, the economic stimulus stemming from the Barnett Shale has expanded the regional economy in lasting ways. Approximately **38.5% of the incremental growth in the economy of the region over the past decade has been the result of Barnett Shale activity.** Moreover, the **overall economic contribution of this phenomenon now constitutes about 8.5% of the local business complex.**
- Activity in the Barnett Shale is also an **important source of tax revenues to local entities as well as the State.**
  - The Perryman Group estimates that in 2011, counties, cities, and school districts in the region will receive some **\$730.6 million** in additional fiscal revenues due to the Barnett Shale and related activity.
  - The State will likely receive another **\$911.8 million**, for a total gain in local and State taxes of an estimated \$1.6 billion.



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- Over the **entire 2001-2011 period**, The Perryman Group estimates that local taxing entities received an additional **\$5.3 billion** in tax receipts, with another **\$5.8 billion** to the State.
  - **Even though activity was virtually nonexistent 10 years ago, the Barnett Shale's effects are now larger than other, long-time sources of economic success in the Metroplex:** about 5% higher than that of aircraft manufacturing, 10% larger than air transportation (including Dallas Love Field, Dallas/Fort Worth International Airport, and Fort Worth Alliance Airport), and 83% larger than motor vehicles.
  - Barnett Shale production has been and continues to be a **notable source of economic stimulus to the North Texas region and the state** as well as an **important domestic fuel source** for the nation. **Only a small portion of total estimated production has occurred to date, and the Barnett Shale is expected to continue to generate economic stimulus for local area and state economies for decades to come.**

## The Perryman Group's Perspective

- TPG is an economic research and analysis firm based in Waco, Texas. The firm has more than 30 years of experience in assessing the economic impact of corporate expansions, regulatory changes, real estate developments, public policy initiatives, and myriad other factors affecting business activity. TPG has conducted hundreds of impact analyses for local areas, regions, and states throughout the US. Impact studies have been performed for hundreds of clients including many of the largest corporations in the world, governmental entities at all levels, educational institutions, major



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health care systems, utilities, and economic development organizations.

- Dr. M. Ray Perryman, founder and President of the firm, developed the US Multi-Regional Impact Assessment System (used in this study) in the early 1980s and has consistently maintained, expanded, and updated it since that time. The model has been used in hundreds of diverse applications and has an excellent reputation for reliability.
- TPG is also extensively experienced in the Dallas/Fort Worth area. Dr. Perryman developed the Texas Econometric Model and its local submodel in the early 1980s and has consistently provided forecasts of the area since that time (including an annual Economic Outlook Conference for the past 27 years). In addition, the firm has completed hundreds of specialized projects in the area, such as the impacts of the development of the Fort Worth Alliance Airport, the Joint Strike Fighter Program at Lockheed Martin, Solana, major corporate relocations and expansions (Federal Express, Fujitsu, American Airlines, Texas Instruments, Vought, etc.), large tourism venues, and infrastructure investments.
- The firm has also conducted numerous investigations related to the oil and gas industry. These analyses include an assessment of the effects of offshore drilling for the US Department of the Interior, several studies of specific production areas, and projections of natural gas prices and output. Information has been prepared for the Interstate Oil Compact Commission, the US Department of Energy, the Texas Railroad Commission, and numerous legislative committees regarding energy policy. Additionally, over the past several years, TPG has performed multiple comprehensive assessments of the impact of the Barnett Shale on the local area, as well the impact of Barnett Shale-related activity on local and state





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taxing authorities. In short, TPG brings decades of knowledge and expertise to this endeavor, as well as a set of models and systems which are ideally suited to this assignment and reflect the specific industrial characteristics of the local area and Texas.



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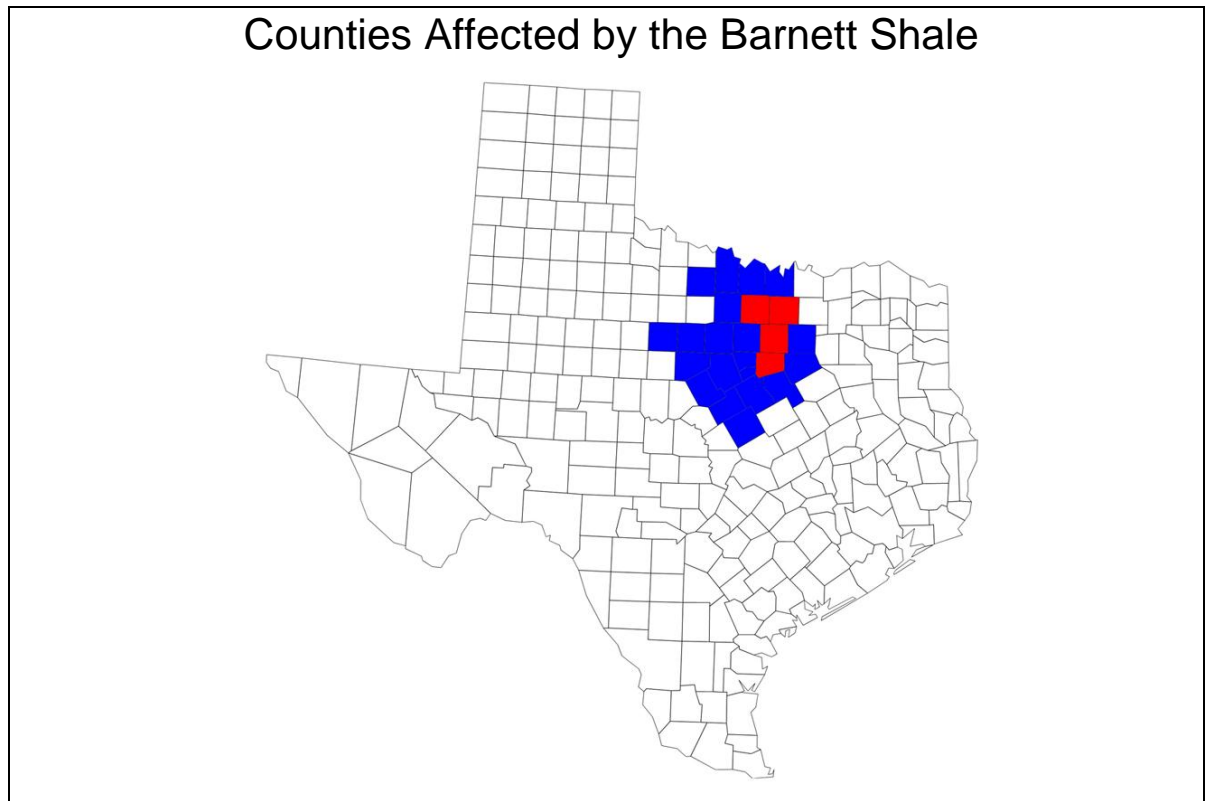
# ACTIVITY IN THE BARNETT SHALE



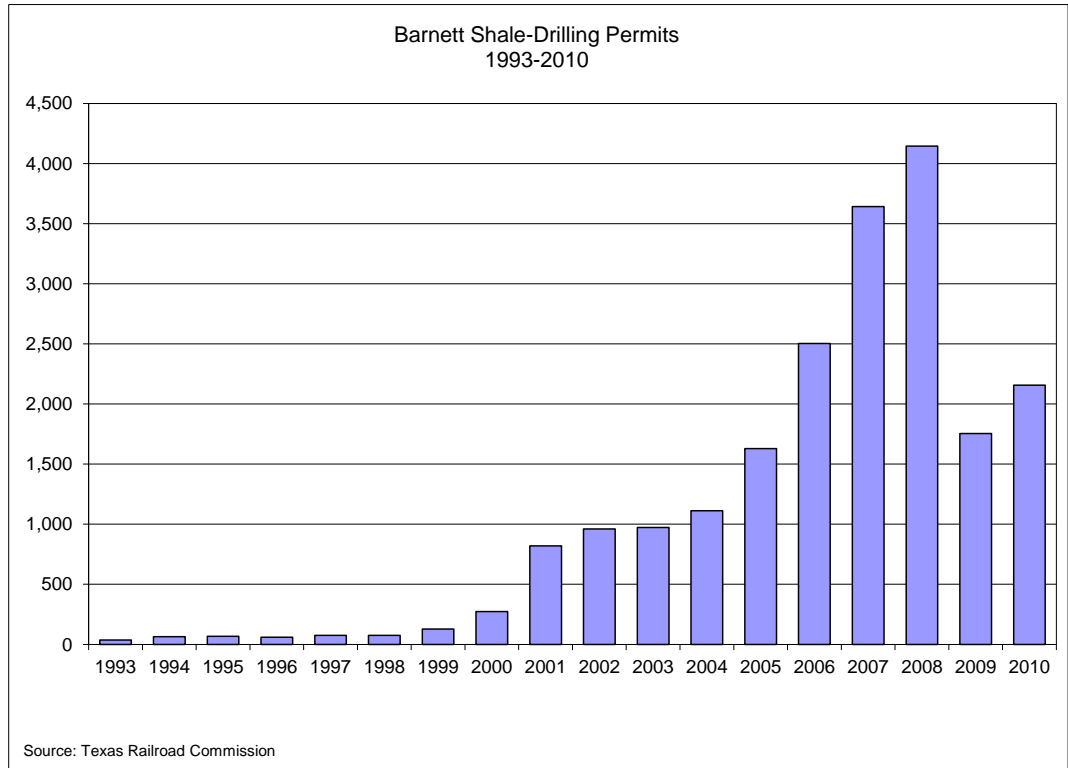
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# ACTIVITY IN THE BARNETT SHALE

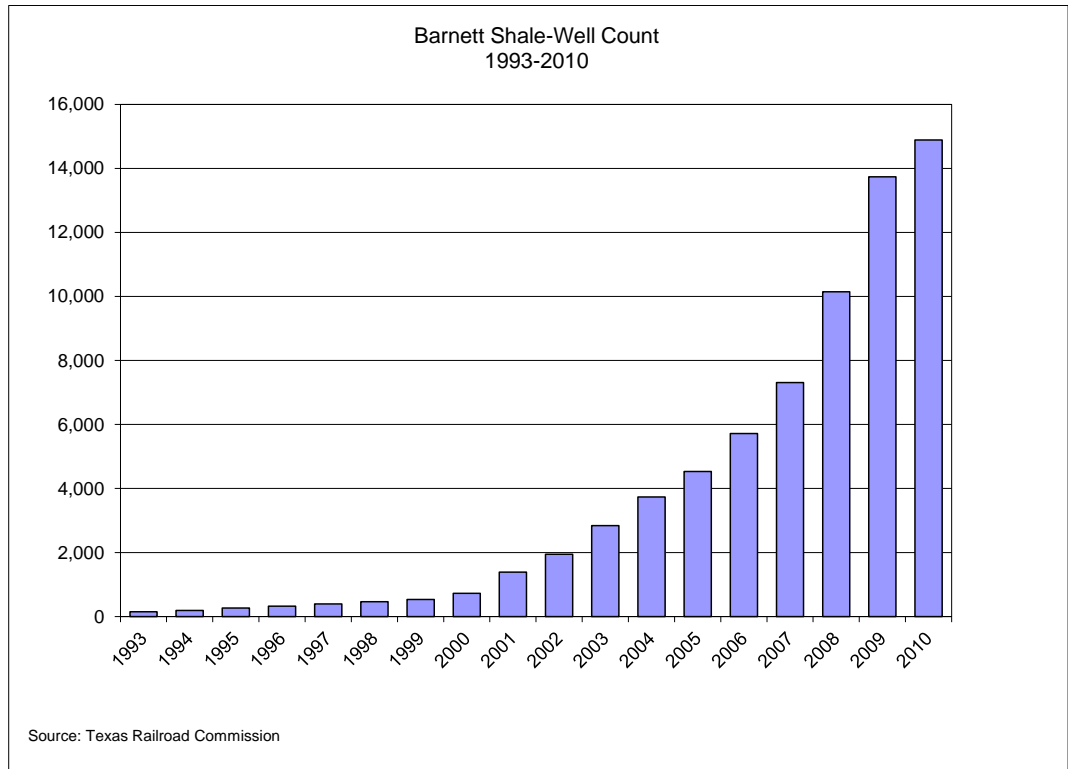
- More than **9 trillion cubic feet of natural gas** have been produced from the Barnett Shale. Currently, **24 counties** have producing wells, with permits issued for a 25<sup>th</sup> county.
- The Texas Railroad Commission (RRC) denotes four counties (in red in the following map) as “core” production areas: Denton, Johnson, Tarrant, and Wise. Non-core counties include Archer, Bosque, Clay, Comanche, Cooke, Coryell, Dallas, Eastland, Ellis, Erath, Hamilton, Hill, Hood, Jack, Montague, Palo Pinto, Parker, Shackelford, Somervell, and Stephens.



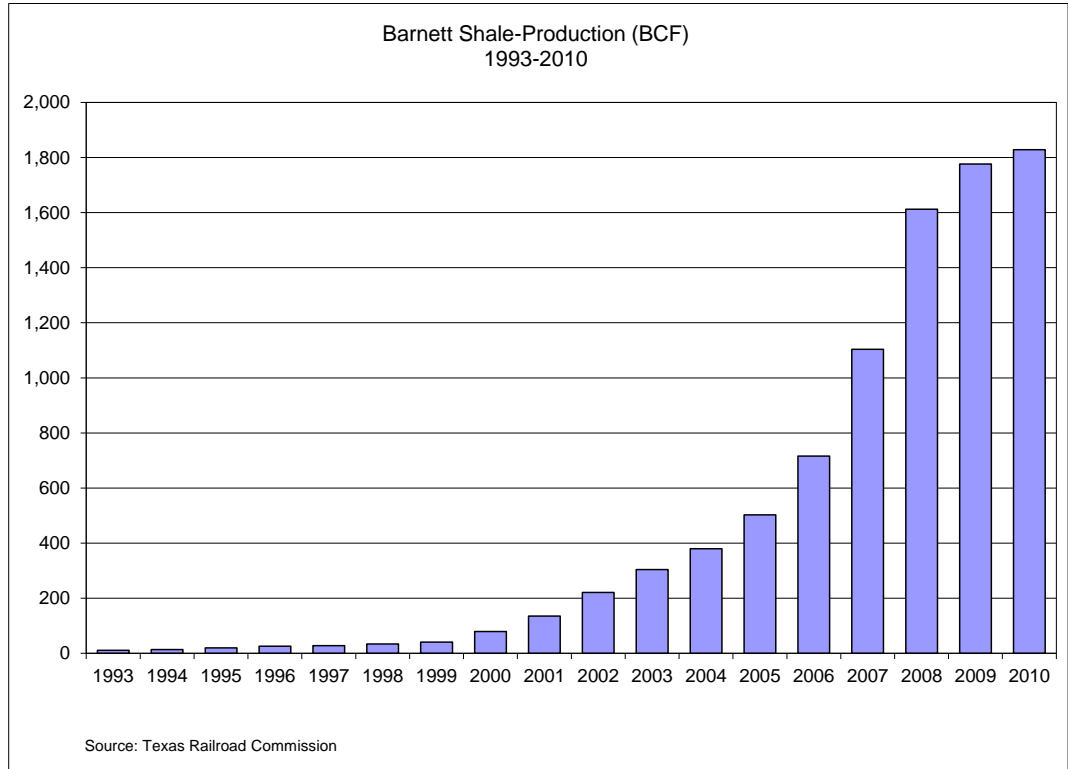
- Permits for drilling in the Barnett Shale rose rapidly through 2008, but the slowing economy and falling gas prices led to a sharp drop for 2009. **The number of new wells permitted began to trend back upward last year.**



- The number of gas wells on RRC records was approaching **15,000** as of the end of **2010**, with thousands more permitted locations pending entry into the system.



- Although exploration activity slowed during the economic downturn, **production from the Barnett Shale continued to rise, topping 1.8 trillion cubic feet in 2010.**



- **Currently, more than 70 rigs are operating in the Barnett Shale.**



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# ECONOMIC BENEFITS OF THE BARNETT SHALE



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# ECONOMIC BENEFITS OF THE BARNETT SHALE

- The Perryman Group measured the **economic benefits stemming from the Barnett Shale**
  - estimated for 2011 based on current levels of activity,
  - yearly over the 2001 to 2011 time period, and
  - as a cumulative (2001-2011) total.
- These effects include those associated with **drilling, exploration, and production as well as pipelines and royalties.**
- The geographic areas examined include the Barnett Shale region (defined as those counties with production) and the state as a whole. All Barnett Shale region estimates are subsets of the total statewide effects presented in this study; statewide impacts include not only the gains in business activity in the Barnett Shale region, but also spillover benefits to other areas.

## Measuring Economic Impacts

- **Any investment or corporate activity generates multiplier effects throughout the economy.** Exploration, drilling, production, servicing, pipeline development and operations, royalty payments, and other direct expenditures associated with the Barnett Shale involve substantial gains. They also lead to spillover benefits for a wide range of businesses throughout the area.





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- As noted, The Perryman Group developed a model some 30 years ago (with continual updates and refinements since that time) to describe these interactions. This dynamic input-output assessment model uses a variety of data (from surveys, industry information, and other sources) to describe the various goods and services (known as resources or inputs) required to produce another good/service. The submodels used in the current analysis reflect the specific industrial composition and characteristics of the Barnett Shale region as well as the state as a whole.
  - Impacts are expressed in terms of several different indicators of business activity.
    - **Total expenditures** (or total spending) measures the dollars changing hands as a result of the economic stimulus.
    - **Gross product** (or output) is production of goods and services that will come about in each area as a result of the activity. This measure is parallel to the gross domestic product numbers commonly reported by various media outlets and is a subset of total expenditures.
    - **Personal income** is dollars that end up in the hands of people in the area; the vast majority of this aggregate derives from the earnings of employees, but payments such as interest and rents are also included.
    - **Job gains** are expressed as person-years of employment (one person working for one year) or as permanent jobs.
  - All results are expressed on an annual basis in constant (2011) dollars. Additional information regarding the methods and assumptions used in this report may be found in the Appendices.



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## Current Benefits of Barnett Shale Development

- The Perryman Group estimated the **positive effect of Barnett Shale-related activity on the regional and state economies**. This economic stimulus stems from **(1) exploration, drilling, and related activity; (2) pipeline investments and related operations; and (3) royalties and lease bonuses**.
- In addition to these economic effects (described below), **individuals, cities, counties, school districts, and many other public and private entities have benefitted from royalties and lease bonuses**. For example, one corporation paid **\$271 million** in royalties in 2010 alone, bringing the total for that firm to **\$1.1 billion** to date.
- Companies investing in exploration and production and related activity within the Barnett Shale have also returned millions of dollars in the form of **charitable donations** as well as thousands of **volunteer hours**.
- In 2010, **municipalities** in the Barnett Shale region received approximately \$31 million in royalties, \$30 million in bonuses, and \$25 million in tax revenues directly from natural gas and mineral rights.
- **Independent school districts** in the Barnett Shale region received approximately \$2.7 million in royalty payments, \$2.5 million in bonuses, and \$45.8 million in tax revenue from natural gas and mineral rights last year. Indirect revenues from collateral development are even higher. Since wells on campus started production in 2008, the University of Texas at Arlington has received over \$5 million in royalty payments.

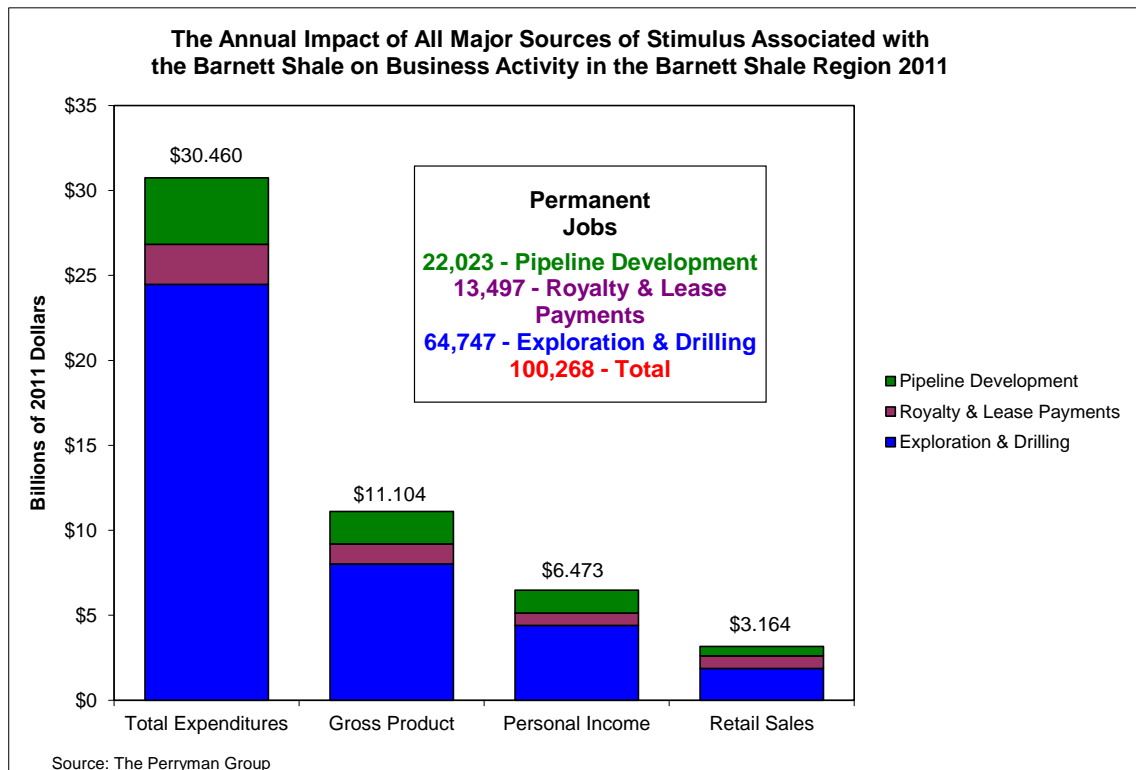


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- Even beyond these royalty payments, **companies operating in the Barnett Shale have donated substantial sums to various local entities.** In 2010 alone, companies donated at least \$9 million to local organizations in the Barnett Shale region.
  - Energy companies have also donated other items. Examples of **gifts to schools** in 2009 include computers to the East Fort Worth Montessori Academy and several pieces of equipment to North Central Texas College's Oil & Gas Technology Program to provide hands-on-training for students going into oil and gas fields.
  - **Students also benefit from scholarships** for high school graduates from funds established by various corporations; these should provide scholarships for students for at least a decade.
  - Numerous Barnett Shale companies have contributed to the Fort Worth Zoo, sponsoring zoo programs such as the Wild Wonders Outreach Program and contributing to facilities and exhibits such as the zoo's new state-of-the-art herpetarium.
  - **Prior funds infusions and investments also continue to improve quality of life in the region.** For example, the Arlington Tomorrow Fund, an endowed fund set up with natural gas revenue, contributes grants to local organizations. Improvements in other facilities which have been partially funded by oil and gas companies, such as the remodeling of the Amon Carter Jr. Downtown YMCA in Fort Worth, also continue to benefit area residents.

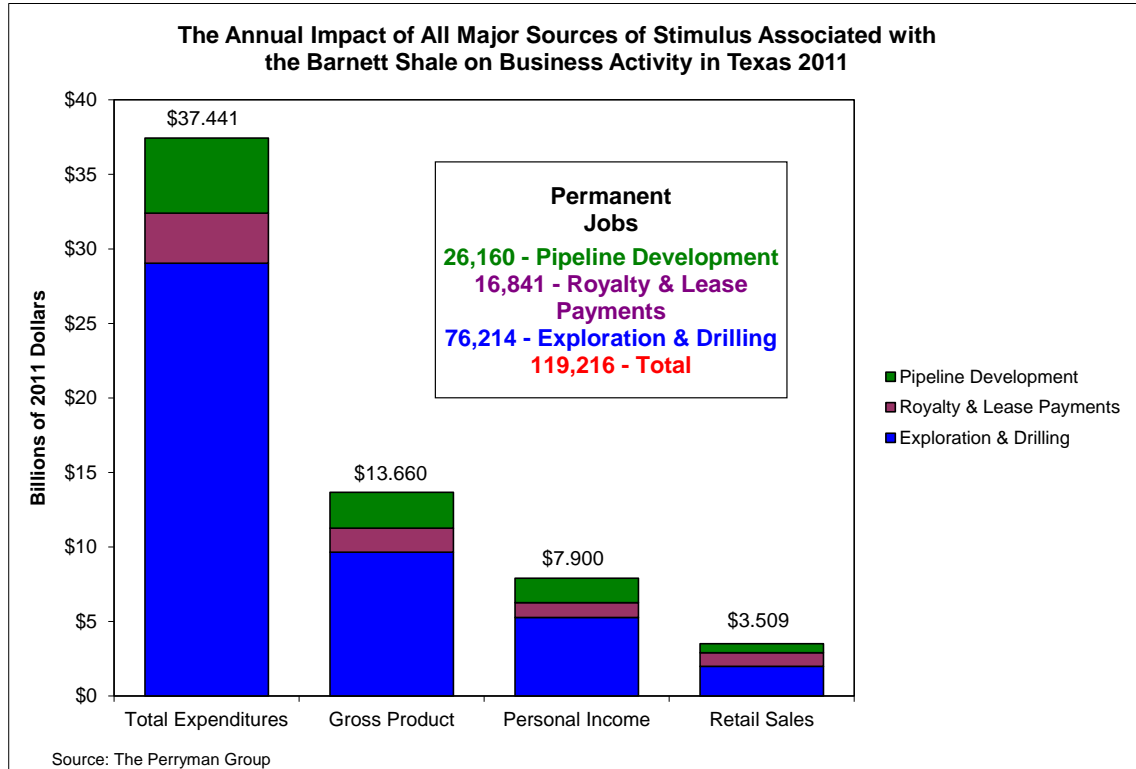


## Current Impact of Activity in the Barnett Shale

- The Perryman Group estimated the **2011 total effect of Barnett Shale activity** to include **\$11.1 billion in annual output and 100,268 jobs** in the region. While the majority of the stimulus comes from exploration and drilling, pipeline development and royalty and lease payments also contribute to the overall impact.

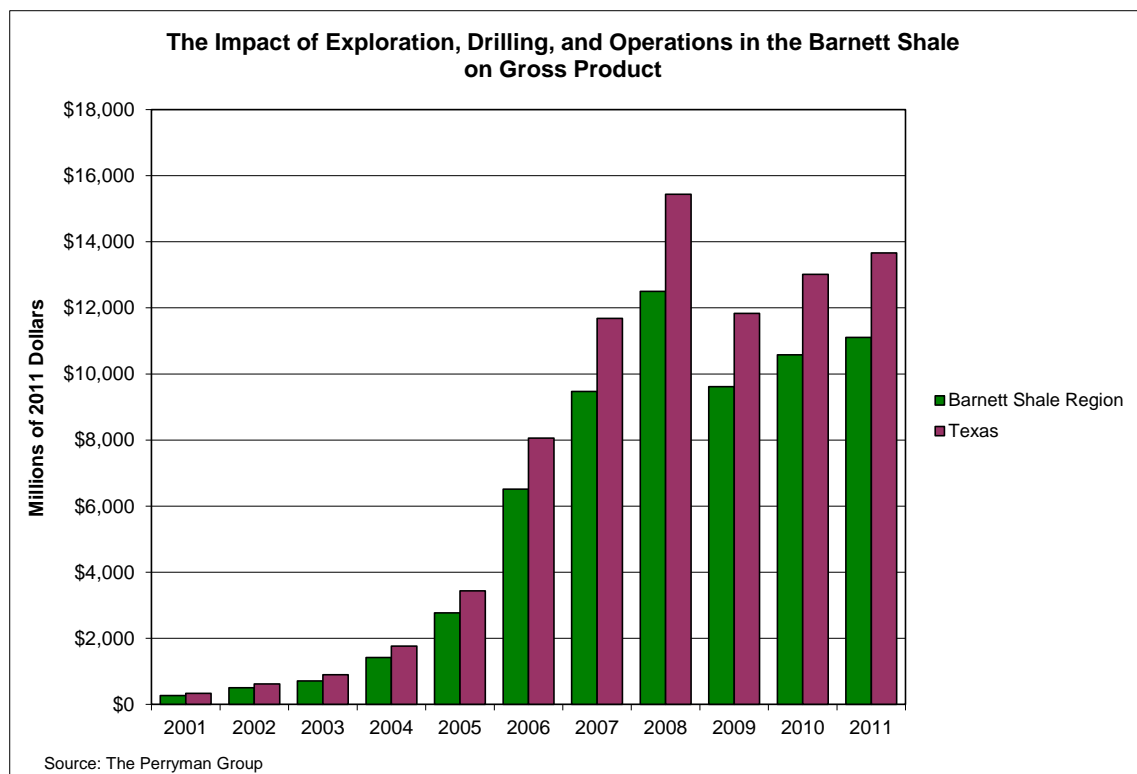


- For the **state as a whole**, Barnett Shale-related activity leads to estimated 2011 gains in output (gross product) of almost **\$13.7 billion** as well as **119,216 jobs**.

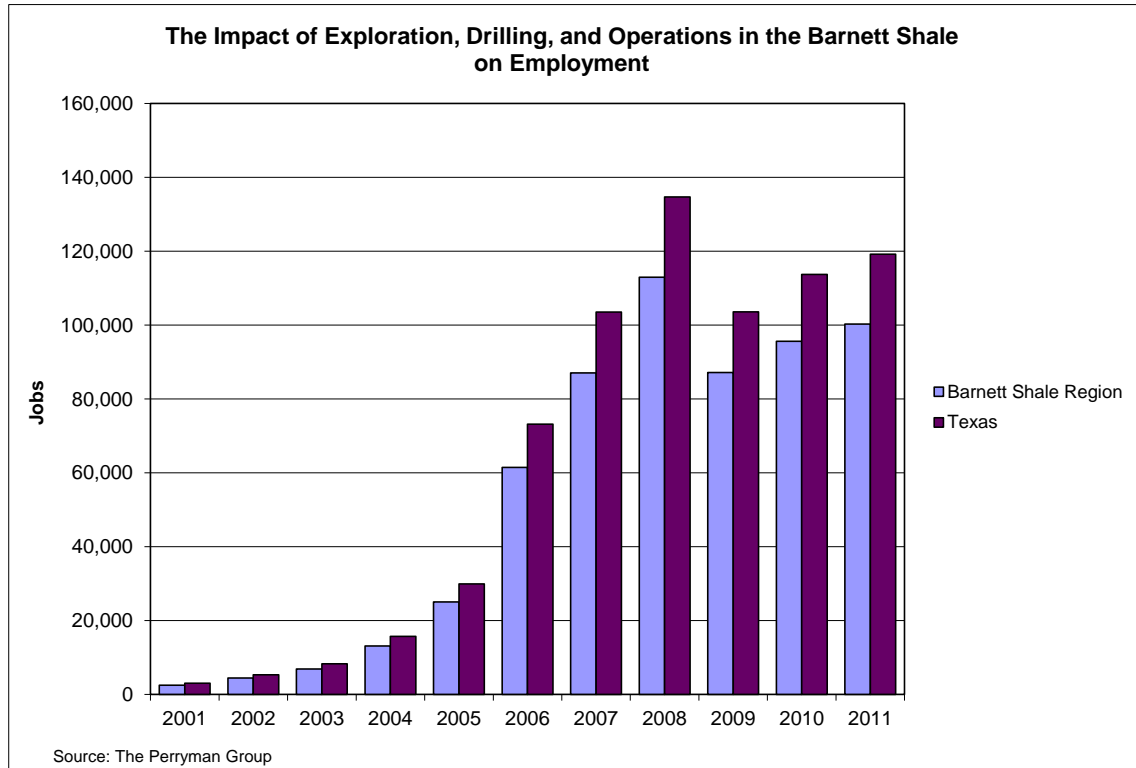


# Impact of Exploration, Drilling, and Operations Over Time

- **The economic benefits stemming from Barnett Shale exploration, drilling, and operations have contributed billions to the regional and state economy over time.** Although the downturn in the national economy and moderating price levels did slow activity, the trend is decidedly upward more recently.

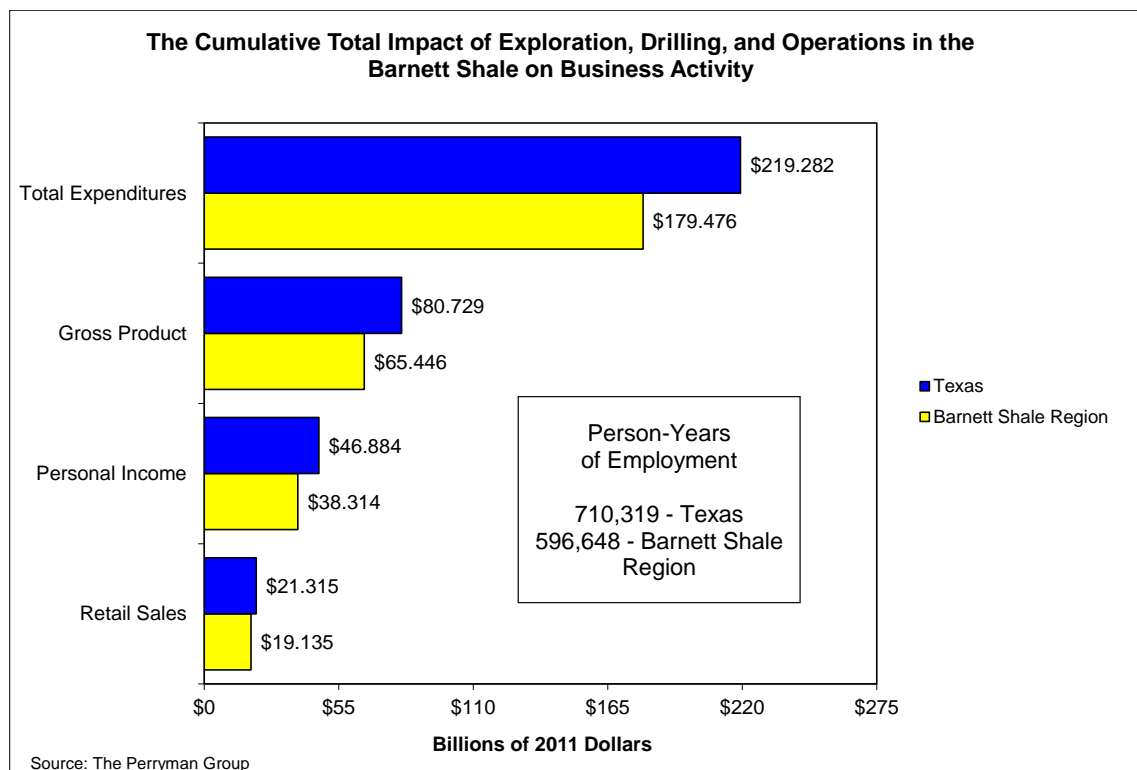


- In terms of employment, **Barnett Shale-related activity leads to gains of about 100,000 jobs in the Barnett Shale region (almost 120,000 in Texas)**. This pace is down somewhat from peak levels, but is nonetheless an important source of jobs.



## Cumulative Impact of Barnett Shale Exploration, Drilling, and Operations: 2001-2011

- Since 2001, exploration, drilling, and operations activity associated with the Barnett Shale has generated a notable economic stimulus for the region.
- The Perryman Group estimates that **the cumulative economic benefits during the 2001-2011 period include \$65.4 billion in output (gross product) and 596,648 person-years of employment in the region.** For the **state as a whole** (including the Barnett Shale region), the total benefits over the 2001-2011 period were found to include **\$80.7 billion in output (gross product) and 710,319 person-years of employment.**

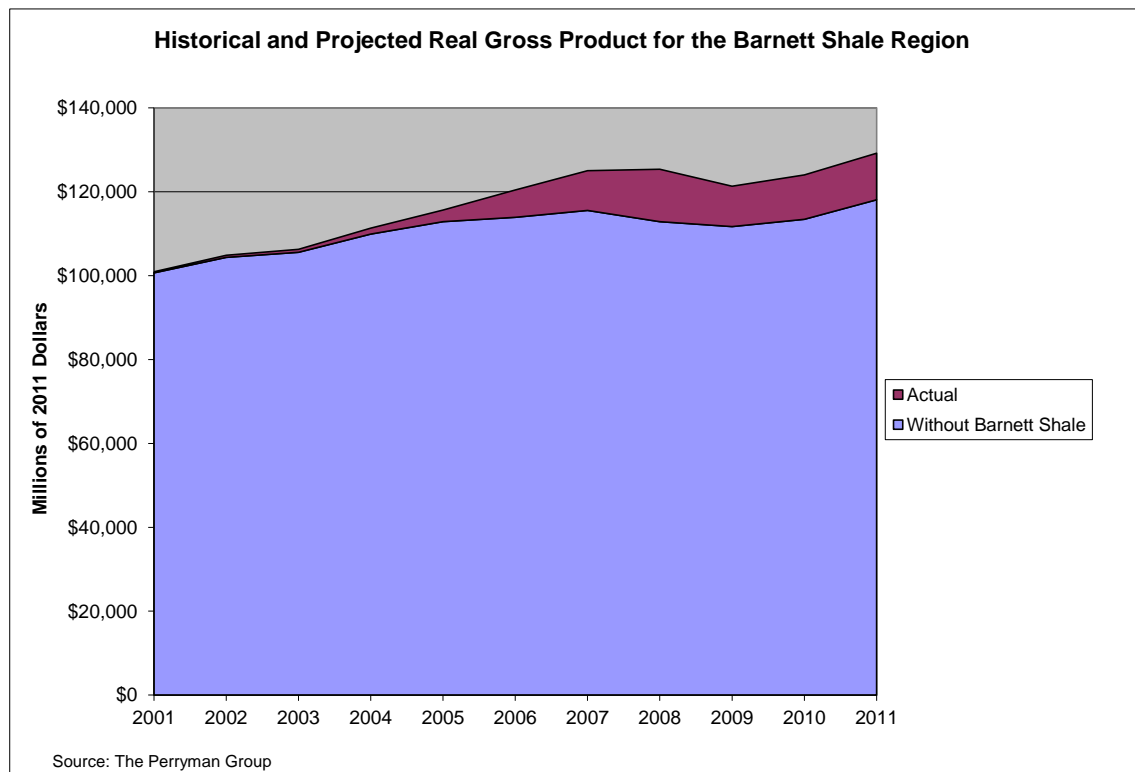




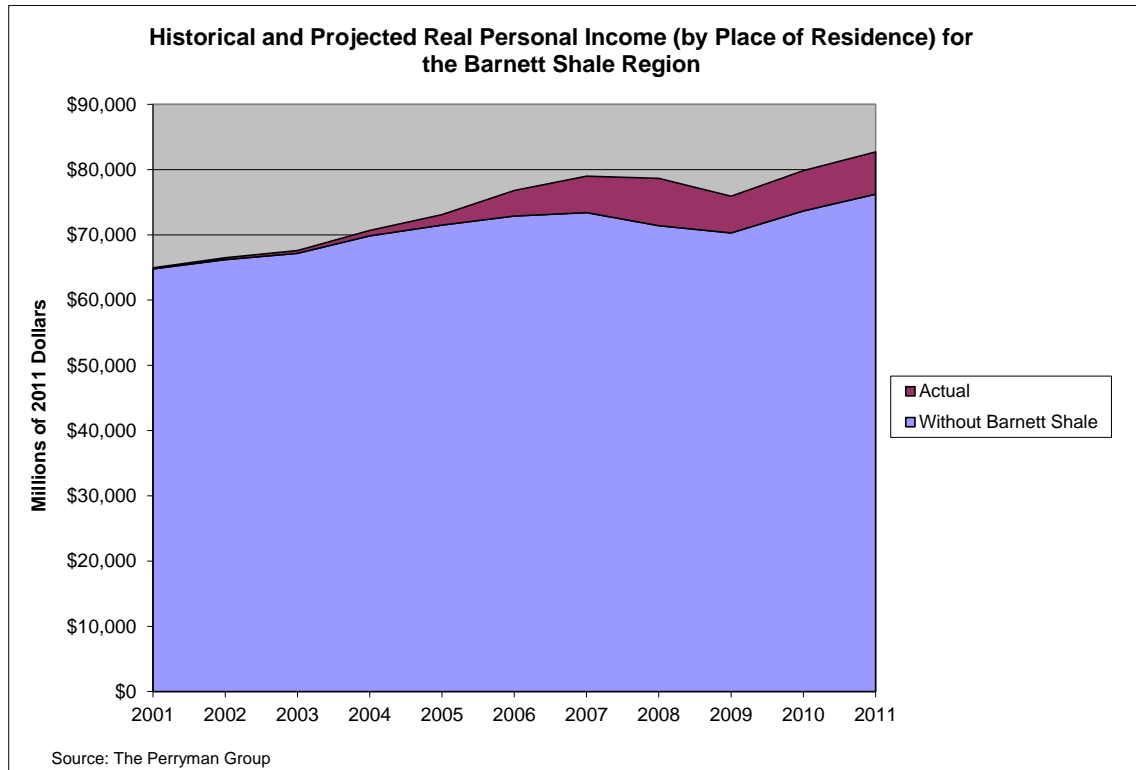
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## The Area Economy With and Without the Barnett Shale

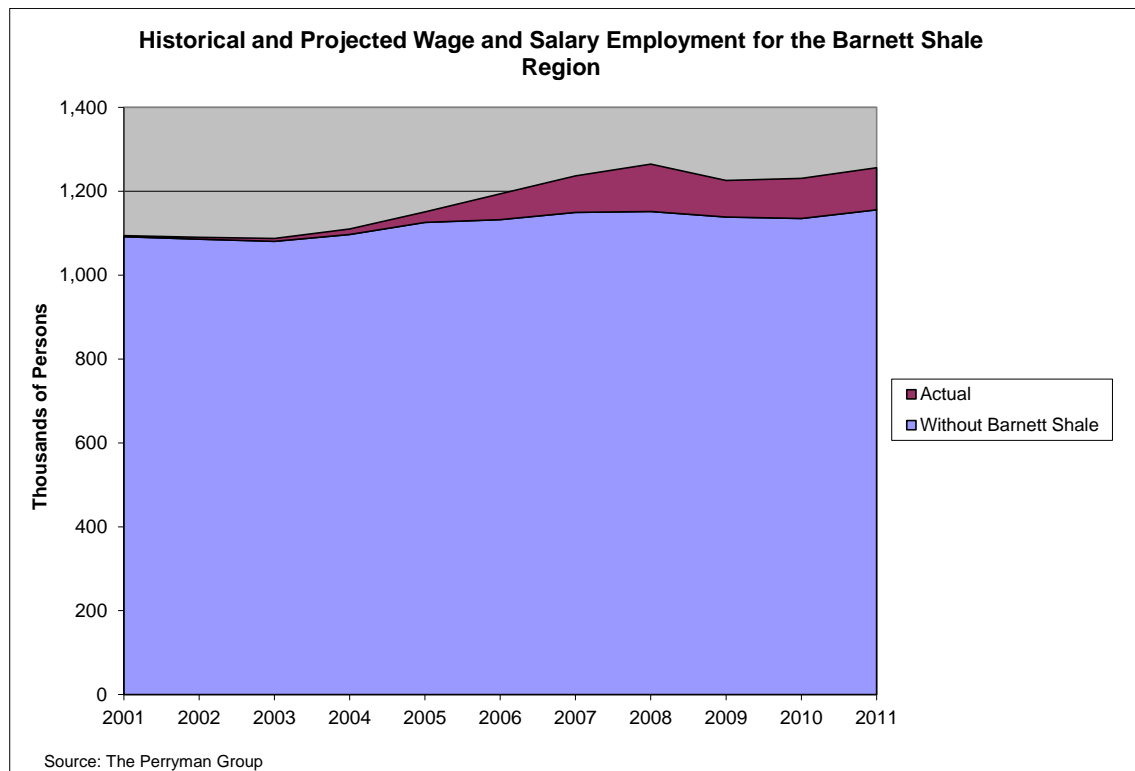
- Clearly, the economic stimulus stemming from the Barnett Shale has expanded the regional economy in lasting ways. In order to estimate the magnitude of incremental gains, The Perryman Group forecast the size of the regional economy with and without the Barnett Shale and associated business activity.
- **As of 2011, estimated output (gross product) in the region is some 9.4% higher than it would be without the Barnett Shale.**



- **Personal income in the region is almost 8.5% higher than it would be in the absence of Barnett Shale-related activity.**



- **Wage and salary employment in the region is about 8.7% higher than it would be without the Barnett Shale.**



- **Approximately 38.5% of the incremental growth in the economy of the region over the past decade has been the result of Barnett Shale activity.** Moreover, the overall economic contribution of this phenomenon **now constitutes about 8.5% of the local business complex.**
- **Even though activity was virtually nonexistent 10 years ago, the Barnett Shale's effects are now larger than other, long-time sources of economic growth in the Metroplex.** To illustrate the relative magnitude, The Perryman Group compared the total effects (including multiplier effects) of the Barnett Shale to that of other regional sectors.
  - The regional impact of the Barnett Shale is about **5% higher than that of aircraft manufacturing** (including its multiplier



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effects), an industry with a long history in the area both through aircraft manufacturers and other defense-related aviation firms.

- The Barnett Shale's effects are also **10% larger than air transportation** (including Dallas Love Field, Dallas/Fort Worth International Airport, and Fort Worth Alliance Airport).
- The economic benefits of the Barnett Shale are almost **twice as large as that of motor vehicles** (83% larger) including the General Motors plant and all associated suppliers.



## Fiscal Effects of Barnett Shale Activity on Counties, Cities, Schools, and the State of Texas

- As noted, the **Barnett Shale leads to notable tax receipts for local government entities and school districts through taxes paid related to mineral interests. In addition, incremental economic activity leads to further gains.**
- The Perryman Group estimates that **in 2011, counties, cities, and school districts in the region will receive some \$730.6 million in additional fiscal revenues** due to the Barnett Shale and related activity. **The State will likely receive another \$911.8 million, for a total gain in local and State taxes of an estimated \$1.6 billion.**
- Over the **2001-2011 period**, The Perryman Group estimates that **local taxing entities received an additional \$5.3 billion in tax receipts, with another \$5.8 billion to the State.**

Fiscal Revenues* to Counties, Cities, and School Districts Within the Barnett Shale Region and the State of Texas						
Date	County	City	School Districts	Total Local	Total State	Total State and Local
2001	\$10,264,547	\$5,666,950	\$22,053,237	\$37,984,733	\$39,766,459	\$77,751,192
2002	\$12,969,548	\$8,898,302	\$27,800,247	\$49,668,097	\$56,250,097	\$105,918,194
2003	\$28,093,222	\$15,384,044	\$60,371,113	\$103,848,380	\$108,733,399	\$212,581,779
2004	\$40,772,515	\$26,447,900	\$87,473,972	\$154,694,387	\$172,387,924	\$327,082,310
2005	\$73,188,705	\$49,723,155	\$156,916,678	\$279,828,537	\$316,439,812	\$596,268,349
2006	\$104,089,857	\$100,572,696	\$222,483,480	\$427,146,033	\$569,685,954	\$996,831,988
2007	\$154,770,012	\$145,989,505	\$330,751,085	\$631,510,603	\$789,816,815	\$1,421,327,418
2008	\$266,748,867	\$207,909,300	\$571,149,046	\$1,045,807,214	\$1,184,493,170	\$2,230,300,383
2009	\$147,948,142	\$145,263,229	\$315,934,992	\$609,146,364	\$774,317,147	\$1,383,463,511
2010	\$170,259,823	\$161,620,319	\$363,724,269	\$695,604,411	\$868,846,101	\$1,564,450,513
2011	\$178,881,290	\$169,628,981	\$382,139,101	\$730,649,371	\$911,833,321	\$1,642,482,692
Cumulative (2001-2011)	\$1,309,758,103	\$1,220,481,444	\$2,799,596,110	\$5,329,835,656	\$5,792,570,199	\$10,558,458,329

\* Includes not only taxes paid on mineral interests (where applicable) but also the incremental tax receipts stemming from gains in overall business activity.



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- **At a time when most government entities and schools are facing difficult budgetary conditions, the Barnett Shale provides an important source of additional revenues.**



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# CONCLUSION



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# CONCLUSION

- While fluctuations in gas prices have impacted exploration over the years, **Barnett Shale production has been and continues to be a notable source of economic stimulus to the North Texas region and the state** as well as an important domestic fuel source for the nation. Moreover, **only a small portion of total estimated production has occurred to date.**
- The **cumulative economic benefits stemming from activity associated with the Barnett Shale include \$65.4 billion in output (gross product) and 596,648 person-years of employment** in the region, with even larger gains for the state as a whole (\$80.7 billion in output and 710,319 person-years of employment).
- Natural gas, like many other fuel sources, is finite and subject to market forces, and production and development at the Barnett Shale will continue to fluctuate over time. However, with increasingly sophisticated technology and growing energy demand, **the Barnett Shale is expected to continue to generate economic stimulus for local area and state economies for decades to come.**





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# APPENDICES



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# APPENDIX A: Texas Econometric Model Methodology



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## Texas Econometric Model

### Model Logic and Structure

- The projected values of overall baseline economic activity (which includes the effects of the Barnett Shale) were derived from a submodel of the Texas Econometric Model which reflects the specific economic characteristics and interactions within the Barnett Shale region. This system was also employed using information derived from the impact assessment process to simulate historical and projected values in the absence of this major natural gas formation. (Note that Dallas County was excluded from the region because its extensive economic complex and relatively minor level of drilling activity would skew the results.) Through this process, it was possible to derive findings regarding overall activity “with” and “without” the Barnett Shale using the simulation methods described below.
- The expanded version of the Texas Econometric Model, developed and maintained by The Perryman Group, revolves around a core system which projects output, income, and employment by industry in a simultaneous manner. For purposes of illustration, it is useful to initially consider the employment functions. Essentially, employment within the system is a derived demand relationship obtained from a neo-Classical production function. The expressions are augmented to include dynamic temporal adjustments to changes in relative factor input costs, output and (implicitly) productivity, and technological progress over time. Thus, the typical equation includes output, the relative real cost of labor and capital, dynamic lag structures, and a technological adjustment parameter. The functional form is logarithmic, thus preserving the theoretical consistency with the neo-Classical formulation.
- The income segment of the model is divided into wage and non-wage components. The wage equations, like their employment counterparts, are individually estimated at the North American Industry Classification System (NAICS) level of aggregation. Hence, income by place of work is measured for approximately 70 distinct production categories. The wage equations measure real compensation, with the form of the variable structure differing between “basic” and “non-basic.”
- The basic industries, comprised primarily of the various components of Mining, Agriculture, and Manufacturing, are export-oriented, i.e., they bring external dollars into the area and form the core of the economy. The production of these sectors typically flows into national and international markets; hence, the labor markets are influenced by conditions in areas beyond the borders of the particular region. Thus, real (inflation-adjusted) wages in the basic industry are expressed as a function of the corresponding national rates, as well as measures of local labor market conditions (the reciprocal of the unemployment rate), dynamic adjustment parameters, and ongoing trends.
- The “non-basic” sectors are somewhat different in nature, as the strength of their labor markets is linked to the health of the local export sectors. Consequently, wages in these industries are related to those in the basic segment of the economy. The relationship also includes the local labor market measures contained in the basic wage equations.
- Note that compensation rates in the export or “basic” sectors provide a key element of the interaction of the regional economies with national and international market phenomena,



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while the “non-basic” or local industries are strongly impacted by area production levels. Given the wage and employment equations, multiplicative identities in each industry provide expressions for total compensation; these totals may then be aggregated to determine aggregate wage and salary income. Simple linkage equations are then estimated for the calculation of personal income by place of work.

- The non-labor aspects of personal income are modeled at the regional level using straightforward empirical expressions relating to national performance, dynamic responses, and evolving temporal patterns. In some instances (such as dividends, rents, and others) national variables (for example, interest rates) directly enter the forecasting system. These factors have numerous other implicit linkages into the system resulting from their simultaneous interaction with other phenomena in national and international markets which are explicitly included in various expressions.
- The output or gross area product expressions are also developed at the NAICS level. Regional output for basic industries is linked to national performance in the relevant industries, local and national production in key related sectors, relative area and national labor costs in the industry, dynamic adjustment parameters, and ongoing changes in industrial interrelationships (driven by technological changes in production processes).
- Output in the non-basic sectors is modeled as a function of basic production levels, output in related local support industries (if applicable), dynamic temporal adjustments, and ongoing patterns. The interindustry linkages are obtained from the input-output (impact assessment) system which is part of the overall integrated modeling structure maintained by The Perryman Group. Note that the dominant component of the econometric system involves the simultaneous estimation and projection of output, income, and employment at a disaggregated industrial level.
- Several other components of the model are critical to the multi-regional forecasting process. The demographic module includes (1) a linkage equation between wage and salary (establishment) employment and household employment, (2) a labor force participation rate function, and (3) a complete age-cohort-survival population system with endogenous migration. Given household employment, labor force participation (which is a function of economic conditions and evolving patterns of worker preferences), and the working age population (from the age-cohort-survival model), the unemployment rate and level become identities.
- The population system uses Census information, fertility rates, and life tables to determine the “natural” changes in population by age group. Migration, the most difficult segment of population dynamics to track, is estimated in relation to relative regional and extra-regional economic conditions over time. Because evolving economic conditions determine migration in the system, population changes are allowed to interact simultaneously with overall economic conditions.
- Retail sales is related to income, interest rates, dynamic adjustments, and patterns in consumer behavior on a store group basis. Inflation at the state level relates to national patterns, indicators of relative economic conditions, and ongoing trends.
- A final significant segment of the forecasting system relates to real estate absorption and activity. The short-term demand for various types of property is determined by underlying economic and demographic factors, with short-term adjustments to reflect the current status of the pertinent building cycle. In some instances, this portion of the forecast



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requires integration with the Multi-Regional Industry-Occupation System which is maintained by The Perryman Group.

- The overall Texas Econometric Model contains numerous additional specifications, and individual expressions are modified to reflect alternative lag structures, empirical properties of the estimates, simulation requirements, and similar phenomena. Nonetheless, the above synopsis offers a basic understanding of the overall structure and underlying logic of the system.

### **Model Simulation and Multi-Regional Structure**

- The initial phase of the simulation process is the execution of a standard non-linear algorithm for the state system and that of each of the individual sub-areas. The external assumptions are derived from scenarios developed through national and international models and extensive analysis by The Perryman Group. In the present instance, simulations were also conducted based on a modified historical pattern for the area in the absence of the Barnett Shale. The incremental effects for the 2001-2008 period were derived from the annual simulations of the US Multi-Regional Impact Assessment System which are presented in the report (with detail in Appendix B).
- Once the initial simulations are completed, they are merged into a single system with additive constraints and interregional flows. Using information on minimum regional requirements, import needs, export potential, and locations, it becomes possible to balance the various forecasts into a mathematically consistent set of results. This process is, in effect, a disciplining exercise with regard to the individual regional (including metropolitan and rural) systems. By compelling equilibrium across all regions and sectors, the algorithm ensures that the patterns in state activity are reasonable in light of smaller area dynamics and, conversely, that the regional outlooks are within plausible performance levels for the state as a whole.
- The iterative simulation process has the additional property of imposing a global convergence criterion across the entire multi-regional system, with balance being achieved simultaneously on both a sectoral and a geographic basis. This approach is particularly critical on non-linear dynamic systems, as independent simulations of individual systems often yield unstable, non-convergent outcomes.
- It should be noted that the underlying data for the modeling and simulation process are frequently updated and revised by the various public and private entities compiling them. Whenever those modifications to the database occur, they bring corresponding changes to the structural parameter estimates of the various systems and the solutions to the simulation and forecasting system. The multi-regional version of the Texas Econometric Model is automatically re-estimated and simulated with each such data release, thus providing a constantly evolving and current assessment of state and local business activity.

### **The Final Forecast**

- The process described above is followed to produce the preliminary forecast. Through the comprehensive multi-regional modeling and simulation process, a systematic analysis is generated which accounts for both historical patterns in economic performance and inter-relationships and best available information on the future course of pertinent external factors. While the best available techniques and data are employed in this effort,



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they are not capable of directly capturing “street sense,” i.e., the contemporaneous and often non-quantifiable information that can materially affect economic outcomes. In order to provide a comprehensive approach to the prediction of business conditions, it is necessary to compile and assimilate extensive material regarding relevant events and patterns both across the state of Texas and elsewhere.

- The critical aspect of the forecasting methodology includes activities such as (1) daily review of hundreds of financial and business publications and electronic information sites; (2) review of all major newspapers in the state on a daily basis; (3) dozens of hours of direct telephone interviews with key business and political leaders in all parts of the state; (4) face-to-face discussions with representatives of major industry groups; and (5) frequent site visits to the various regions of the state. The insights arising from this “fact finding” are analyzed and evaluated for their effects on the likely course of the future activity.
- Another vital information resource stems from the firm’s ongoing interaction with key players in the international, domestic, and state economic scenes. Such activities include visiting with corporate groups on a regular basis and being regularly involved in the policy process at all levels. The firm is also an active participant in many major corporate relocations, economic development initiatives, and regulatory proceedings.
- Once organized, this information is carefully assessed and, when appropriate, independently verified. The impact on specific communities and sectors that is distinct from what is captured by the econometric system is then factored into the forecast analysis. For example, the opening or closing of a major facility, particularly in a relatively small area, can cause a sudden change in business performance that will not be accounted for by either a modeling system based on historical relationships or expected (primarily national and international) factors.
- The final step in the forecasting process is the integration of this material into the results in a logical and mathematically consistent manner. In some instances, this task is accomplished through “constant adjustment factors” which augment relevant equations. In other cases, anticipated changes in industrial structure or regulatory parameters are initially simulated within the context of the US Multi-Regional Impact Assessment System to estimate their ultimate effects by sector. Those findings are then factored into the simulation as constant adjustments on a distributed temporal basis. Once this scenario is formulated, the extended system is again balanced across regions and sectors through an iterative simulation algorithm analogous to that described in the preceding section.



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# APPENDIX B: US Multi-Regional Impact Assessment System Methodology



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## US Multi-Regional Impact Assessment System

- The basic modeling technique employed in this study is known as dynamic input-output analysis. This methodology essentially uses extensive survey data, industry information, and a variety of corroborative source materials to create a matrix describing the various goods and services (known as resources or inputs) required to produce one unit (a dollar's worth) of output for a given sector. Once the base information is compiled, it can be mathematically simulated to generate evaluations of the magnitude of successive rounds of activity involved in the overall production process.
- There are two essential steps in conducting an input-output analysis once the system is operational. The first major endeavor is to accurately define the levels of direct activity to be evaluated. The second step is the simulation of the input-output system to measure overall economic effects. In the case of a prospective evaluation, it is necessary to first calculate reasonable estimates of the direct activity.
- Once the direct input values were determined, the present study was conducted within the context of the US Multi-Regional Impact Assessment System (USMRIAS) which was developed and is maintained by The Perryman Group. This model has been used in hundreds of diverse applications across the country and has an excellent reputation for accuracy and credibility. In addition, the model has been in operation and continually updated for over two decades. The systems used in the current simulations reflect the unique industrial structures of the economies of the areas analyzed (the Barnett Shale region and Texas in the current analysis).
- In this instance, The Perryman Group utilized a variety of public and private sources of data regarding current and future production in the Barnett Shale and other information necessary to the analysis.
- The direct inputs for assessing the value of exploration, drilling, and production activity were obtained from (1) data from the Texas Railroad Commission and various industry sources and (2) employment information from the US Department of Commerce. This material was compiled on an annual basis for the 2001-2010 period and projected based on current patterns.
- The direct effects of royalties and related payments are based on current production levels and typical royalty rates. The amounts were fully adjusted to reflect those funds that are paid outside the region (and state) and are further reduced to account for out-of-area spending, savings, and taxes. The remaining financial resources are assumed to be spent in accordance with typical consumer patterns in the region as detailed by the US Department of Labor and ACCRA.
- The direct effects of pipeline development and operations was derived from (1) published reports and secondary research related to pipeline investments and (2) standard employment data in this sector. The estimates are also incorporated in a multiple regression analysis of patterns of pipeline and field development in other areas. The relevant equations exhibited excellent empirical properties and conformed to observed patterns.
- As noted earlier, as the direct effects are determined, they are simulated within the context of the relevant geographic submodels of the USMRIAS. The USMRIAS is





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somewhat similar in format to the Input-Output Model of the United States and the Regional Input-Output Modeling System, both of which are maintained by the US Department of Commerce. The model developed by TPG, however, incorporates several important enhancements and refinements. Specifically, the expanded system includes (1) comprehensive 500-sector coverage for any county, multi-county, or urban region; (2) calculation of both total expenditures and value-added by industry and region; (3) direct estimation of expenditures for multiple basic input choices (expenditures, output, income, or employment); (4) extensive parameter localization; (5) price adjustments for real and nominal assessments by sectors and areas; (6) measurement of the induced impacts associated with payrolls and consumer spending; (7) embedded modules to estimate multi-sectoral direct spending effects; (8) estimation of retail spending activity by consumers; and (9) comprehensive linkage and integration capabilities with a wide variety of econometric, real estate, occupational, and fiscal impact models. The models used for the present investigation have been thoroughly tested for reasonableness and historical reliability.

- The impact assessment (input-output) process essentially estimates the amounts of all types of goods and services required to produce one unit (a dollar's worth) of a specific type of output. For purposes of illustrating the nature of the system, it is useful to think of inputs and outputs in dollar (rather than physical) terms. As an example, the construction of a new building will require specific dollar amounts of lumber, glass, concrete, hand tools, architectural services, interior design services, paint, plumbing, and numerous other elements. Each of these suppliers must, in turn, purchase additional dollar amounts of inputs. This process continues through multiple rounds of production, thus generating subsequent increments to business activity. The initial process of building the facility is known as the *direct effect*. The ensuing transactions in the output chain constitute the *indirect effect*.
- Another pattern that arises in response to any direct economic activity comes from the payroll dollars received by employees at each stage of the production cycle. As workers are compensated, they use some of their income for taxes, savings, and purchases from external markets. A substantial portion, however, is spent locally on food, clothing, healthcare services, utilities, housing, recreation, and other items. Typical purchasing patterns in the relevant areas are obtained from the *ACCRA Cost of Living Index*, a privately compiled inter-regional measure which has been widely used for several decades, and the *Consumer Expenditure Survey* of the US Department of Labor. These initial outlays by area residents generate further secondary activity as local providers acquire inputs to meet this consumer demand. These consumer spending impacts are known as the *induced effect*. The USMRIAS is designed to provide realistic, yet conservative, estimates of these phenomena.
- Sources for information used in this process include the Bureau of the Census, the Bureau of Labor Statistics, the Regional Economic Information System of the US Department of Commerce, and other public and private sources. The pricing data are compiled from the US Department of Labor and the US Department of Commerce. The verification and testing procedures make use of extensive public and private sources. Note that all monetary values, unless otherwise noted, are given in constant (2011) dollars to eliminate the effects of inflation.



- The fiscal impacts are determined based on a fiscal report system that links the industrial findings for the assessment described above to the specific tax structure of Texas and the relevant local areas.
- The USMRIAS generates estimates of the effect on several measures of business activity. The most comprehensive measure of economic activity used in this study is **Total Expenditures**. This measure incorporates every dollar that changes hands in any transaction. For example, suppose a farmer sells wheat to a miller for \$0.50; the miller then sells flour to a baker for \$0.75; the baker, in turn, sells bread to a customer for \$1.25. The Total Expenditures recorded in this instance would be \$2.50, that is,  $\$0.50 + \$0.75 + \$1.25$ . This measure is quite broad, but is useful in that (1) it reflects the overall interplay of all industries in the economy, and (2) some key fiscal variables such as sales taxes are linked to aggregate spending.
- A second measure of business activity frequently employed in this analysis is that of **Gross Product**. This indicator represents the regional equivalent of Gross Domestic Product, the most commonly reported statistic regarding national economic performance. In other words, the Gross Product of, say, Amarillo is the amount of US output that is produced in that area. It is defined as the value of all final goods produced in a given region for a specific period of time. Stated differently, it captures the amount of value-added (gross area product) over intermediate goods and services at each stage of the production process, that is, it eliminates the double counting in the Total Expenditures concept. Using the example above, the Gross Product is \$1.25 (the value of the bread) rather than \$2.50. Alternatively, it may be viewed as the sum of the value-added by the farmer, \$0.50; the miller, \$0.25 ( $\$0.75 - \$0.50$ ); and the baker, \$0.50 ( $\$1.25 - \$0.75$ ). The total value-added is, therefore, \$1.25, which is equivalent to the final value of the bread. In many industries, the primary component of value-added is the wage and salary payments to employees.
- The third gauge of economic activity used in this evaluation is **Personal Income**. As the name implies, Personal Income is simply the income received by individuals, whether in the form of wages, salaries, interest, dividends, proprietors' profits, or other sources. It may thus be viewed as the segment of overall impacts which flows directly to the citizenry.
- The fourth measure, **Retail Sales**, represents the component of Total Expenditures which occurs in retail outlets (general merchandise stores, automobile dealers and service stations, building materials stores, food stores, drugstores, restaurants, and so forth). Retail Sales is a commonly used measure of consumer activity.
- The final aggregates used are **Permanent Jobs and Person-Years of Employment**. The Person-Years of Employment measure reveals the full-time equivalent jobs generated by an activity. It should be noted that, unlike the dollar values described above, Permanent Jobs is a "stock" rather than a "flow." In other words, if an area produces \$1 million in output in 2009 and \$1 million in 2010, it is appropriate to say that \$2 million was achieved in the 2009-2010 period. If the same area has 100 people working in 2009 and 100 in 2010, it only has 100 Permanent Jobs. When a flow of jobs is measured, such as in a construction project or a cumulative assessment over multiple years, it is appropriate to measure employment in Person-Years (a person working for a

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year). This concept is distinct from Permanent Jobs, which anticipates that the relevant positions will be maintained on a continuing basis.



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## APPENDIX C: Detailed Sectoral Results



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## The Annual Impact of Exploration, Drilling and Operations in the Barnett Shale



**The Annual Impact of Exploration, Drilling, and Operations in the  
Barnett Shale on Business Activity in the Barnett Shale Region 2001  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$3,304,665	\$920,101	\$626,641	10
Forestry & Fishery Products	\$39,841	\$49,054	\$18,195	0
Coal Mining	\$173,073	\$50,350	\$53,055	0
Crude Petroleum & Natural Gas	\$277,153,567	\$60,742,245	\$28,014,250	141
Miscellaneous Mining	\$178,060	\$75,806	\$44,562	0
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$19,513,254	\$10,542,756	\$8,687,888	126
Food Products & Tobacco	\$4,003,688	\$1,030,111	\$526,229	9
Textile Mill Products	\$11,598	\$3,957	\$3,347	0
Apparel	\$1,130,315	\$621,068	\$314,705	9
Paper & Allied Products	\$642,052	\$295,322	\$133,512	2
Printing & Publishing	\$1,535,175	\$772,042	\$503,927	9
Chemicals & Petroleum Refining	\$4,773,238	\$841,102	\$394,946	3
Rubber & Leather Products	\$925,268	\$388,347	\$227,026	4
Lumber Products & Furniture	\$504,815	\$161,859	\$115,397	2
Stone, Clay, & Glass Products	\$1,162,723	\$591,028	\$309,110	5
Primary Metal	\$840,460	\$252,824	\$188,190	3
Fabricated Metal Products	\$3,438,720	\$1,281,745	\$827,497	14
Machinery, Except Electrical	\$2,238,955	\$949,153	\$678,079	7
Electric & Electronic Equipment	\$998,153	\$551,355	\$329,616	3
Motor Vehicles & Equipment	\$570,362	\$135,921	\$88,302	1
Transp. Equip., Exc. Motor Vehicles	\$239,261	\$100,403	\$65,609	1
Instruments & Related Products	\$106,892	\$46,222	\$35,133	0
Miscellaneous Manufacturing	\$366,644	\$135,925	\$93,750	1
Transportation	\$7,206,357	\$4,706,812	\$3,112,917	44
Communication	\$3,214,891	\$1,988,546	\$848,973	8
Electric, Gas, Water, Sanitary Services	\$10,937,121	\$2,447,619	\$1,068,076	4
Wholesale Trade	\$7,109,456	\$4,804,182	\$2,770,134	32
Retail Trade	\$22,817,697	\$18,927,739	\$11,318,184	304
Finance	\$4,472,505	\$2,490,764	\$1,450,379	13
Insurance	\$2,660,671	\$1,600,508	\$956,849	12
Real Estate	\$37,714,983	\$9,790,568	\$1,577,474	14
Hotels, Lodging Places, Amusements	\$2,128,852	\$1,114,192	\$730,949	18
Personal Services	\$4,744,298	\$2,928,328	\$2,278,284	39
Business Services	\$7,772,134	\$4,510,016	\$3,679,018	46
Eating & Drinking Places	\$12,457,924	\$7,309,391	\$3,888,987	180
Health Services	\$6,884,891	\$4,815,515	\$4,071,563	69
Miscellaneous Services	\$7,620,244	\$3,150,599	\$2,731,304	67
Households	\$303,339	\$303,339	\$296,919	21
<b>Total</b>	<b>\$461,896,144</b>	<b>\$151,426,815</b>	<b>\$83,058,976</b>	<b>1,222</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group

**The Annual Impact of Exploration, Drilling, and Operations in the  
Barnett Shale on Business Activity in Texas 2001  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$4,326,545	\$1,203,016	\$819,321	13
Forestry & Fishery Products	\$90,743	\$110,604	\$41,021	1
Coal Mining	\$598,578	\$174,058	\$183,415	1
Crude Petroleum & Natural Gas	\$296,039,129	\$64,881,291	\$29,923,173	150
Miscellaneous Mining	\$247,427	\$105,357	\$61,932	1
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$20,859,209	\$11,262,044	\$9,280,623	134
Food Products & Tobacco	\$10,470,476	\$2,693,918	\$1,376,184	23
Textile Mill Products	\$121,384	\$40,770	\$34,491	1
Apparel	\$2,106,465	\$1,157,683	\$586,615	16
Paper & Allied Products	\$1,393,132	\$639,906	\$289,297	4
Printing & Publishing	\$2,223,783	\$1,118,654	\$730,170	13
Chemicals & Petroleum Refining	\$13,018,435	\$2,286,294	\$1,073,546	8
Rubber & Leather Products	\$1,388,062	\$583,088	\$340,869	7
Lumber Products & Furniture	\$631,549	\$203,109	\$144,805	3
Stone, Clay, & Glass Products	\$1,336,729	\$680,770	\$356,044	6
Primary Metal	\$2,035,568	\$611,873	\$455,450	7
Fabricated Metal Products	\$3,589,041	\$1,336,971	\$863,148	15
Machinery, Except Electrical	\$3,734,030	\$1,582,099	\$1,130,260	12
Electric & Electronic Equipment	\$1,530,361	\$844,369	\$504,794	4
Motor Vehicles & Equipment	\$731,608	\$173,995	\$113,038	1
Transp. Equip., Exc. Motor Vehicles	\$388,536	\$163,147	\$106,604	1
Instruments & Related Products	\$323,465	\$139,710	\$106,195	1
Miscellaneous Manufacturing	\$624,470	\$231,981	\$160,003	2
Transportation	\$7,996,948	\$5,231,551	\$3,459,960	49
Communication	\$5,637,135	\$3,481,955	\$1,486,559	13
Electric, Gas, Water, Sanitary Services	\$17,605,116	\$3,939,032	\$1,718,893	7
Wholesale Trade	\$10,872,524	\$7,347,393	\$4,236,570	48
Retail Trade	\$24,405,128	\$20,242,669	\$12,104,468	325
Finance	\$5,423,215	\$3,015,247	\$1,755,783	16
Insurance	\$5,327,006	\$3,203,862	\$1,915,395	23
Real Estate	\$53,035,032	\$14,390,761	\$2,318,662	21
Hotels, Lodging Places, Amusements	\$2,602,376	\$1,360,711	\$892,670	22
Personal Services	\$5,163,465	\$3,188,840	\$2,480,972	43
Business Services	\$12,175,505	\$7,139,342	\$5,823,874	73
Eating & Drinking Places	\$13,100,787	\$7,685,498	\$4,089,093	189
Health Services	\$8,518,674	\$5,952,376	\$5,032,786	85
Miscellaneous Services	\$7,966,600	\$3,285,500	\$2,848,251	70
Households	\$398,204	\$398,204	\$389,776	28
<b>Total</b>	<b>\$548,036,440</b>	<b>\$182,087,645</b>	<b>\$99,234,711</b>	<b>1,439</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Annual Impact of Exploration, Drilling, and Operations in the  
Barnett Shale on Business Activity in the Barnett Shale Region 2002  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$8,237,434	\$2,293,507	\$1,562,007	25
Forestry & Fishery Products	\$99,311	\$122,274	\$45,353	1
Coal Mining	\$431,414	\$125,506	\$132,249	1
Crude Petroleum & Natural Gas	\$690,852,001	\$151,410,288	\$69,830,241	351
Miscellaneous Mining	\$443,844	\$188,959	\$111,078	1
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$48,640,077	\$26,279,597	\$21,656,026	313
Food Products & Tobacco	\$9,979,868	\$2,567,725	\$1,311,714	22
Textile Mill Products	\$28,911	\$9,863	\$8,344	0
Apparel	\$2,817,500	\$1,548,118	\$784,456	22
Paper & Allied Products	\$1,600,424	\$736,140	\$332,801	5
Printing & Publishing	\$3,826,683	\$1,924,446	\$1,256,124	22
Chemicals & Petroleum Refining	\$11,898,100	\$2,096,588	\$984,469	7
Rubber & Leather Products	\$2,306,387	\$968,021	\$565,901	11
Lumber Products & Furniture	\$1,258,336	\$403,460	\$287,647	6
Stone, Clay, & Glass Products	\$2,898,283	\$1,473,237	\$770,508	12
Primary Metal	\$2,094,987	\$630,207	\$469,095	7
Fabricated Metal Products	\$8,571,588	\$3,194,966	\$2,062,675	36
Machinery, Except Electrical	\$5,580,972	\$2,365,924	\$1,690,226	18
Electric & Electronic Equipment	\$2,488,065	\$1,374,345	\$821,624	7
Motor Vehicles & Equipment	\$1,421,723	\$338,806	\$220,107	3
Transp. Equip., Exc. Motor Vehicles	\$596,399	\$250,273	\$163,542	2
Instruments & Related Products	\$266,447	\$115,216	\$87,574	1
Miscellaneous Manufacturing	\$913,921	\$338,817	\$233,688	3
Transportation	\$17,963,061	\$11,732,524	\$7,759,470	110
Communication	\$8,013,657	\$4,956,787	\$2,116,210	19
Electric, Gas, Water, Sanitary Services	\$27,262,618	\$6,101,103	\$2,662,360	11
Wholesale Trade	\$17,721,517	\$11,975,234	\$6,905,027	80
Retail Trade	\$56,876,957	\$47,180,582	\$28,212,481	758
Finance	\$11,148,473	\$6,208,649	\$3,615,314	32
Insurance	\$6,632,172	\$3,989,536	\$2,385,106	29
Real Estate	\$94,010,956	\$24,404,642	\$3,932,120	35
Hotels, Lodging Places, Amusements	\$5,306,523	\$2,777,311	\$1,822,013	45
Personal Services	\$11,825,962	\$7,299,352	\$5,679,008	98
Business Services	\$19,373,355	\$11,241,976	\$9,170,573	114
Eating & Drinking Places	\$31,053,477	\$18,219,890	\$9,693,957	449
Health Services	\$17,161,752	\$12,003,482	\$10,149,057	172
Miscellaneous Services	\$18,994,744	\$7,853,399	\$6,808,236	167
Households	\$756,123	\$756,123	\$740,122	52
<b>Total</b>	<b>\$1,151,354,024</b>	<b>\$377,456,870</b>	<b>\$207,038,503</b>	<b>3,046</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group





**The Annual Impact of Exploration, Drilling, and Operations in the  
Barnett Shale on Business Activity in Texas 2002  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$10,784,642	\$2,998,721	\$2,042,297	33
Forestry & Fishery Products	\$226,192	\$275,698	\$102,252	1
Coal Mining	\$1,492,058	\$433,869	\$457,194	3
Crude Petroleum & Natural Gas	\$737,927,447	\$161,727,558	\$74,588,553	375
Miscellaneous Mining	\$616,755	\$262,619	\$154,375	2
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$51,995,097	\$28,072,545	\$23,133,517	334
Food Products & Tobacco	\$26,099,427	\$6,715,045	\$3,430,371	58
Textile Mill Products	\$302,569	\$101,625	\$85,975	2
Apparel	\$5,250,720	\$2,885,721	\$1,462,237	40
Paper & Allied Products	\$3,472,615	\$1,595,074	\$721,121	11
Printing & Publishing	\$5,543,154	\$2,788,434	\$1,820,071	32
Chemicals & Petroleum Refining	\$32,450,645	\$5,698,973	\$2,675,995	20
Rubber & Leather Products	\$3,459,979	\$1,453,446	\$849,674	17
Lumber Products & Furniture	\$1,574,242	\$506,282	\$360,950	7
Stone, Clay, & Glass Products	\$3,332,022	\$1,696,933	\$887,501	14
Primary Metal	\$5,073,995	\$1,525,196	\$1,135,286	17
Fabricated Metal Products	\$8,946,290	\$3,332,625	\$2,151,542	38
Machinery, Except Electrical	\$9,307,698	\$3,943,648	\$2,817,364	30
Electric & Electronic Equipment	\$3,814,684	\$2,104,733	\$1,258,285	10
Motor Vehicles & Equipment	\$1,823,655	\$433,712	\$281,766	4
Transp. Equip., Exc. Motor Vehicles	\$968,491	\$406,672	\$265,727	2
Instruments & Related Products	\$806,291	\$348,250	\$264,710	3
Miscellaneous Manufacturing	\$1,556,597	\$578,252	\$398,834	6
Transportation	\$19,933,741	\$13,040,523	\$8,624,535	123
Communication	\$14,051,510	\$8,679,361	\$3,705,498	33
Electric, Gas, Water, Sanitary Services	\$43,883,721	\$9,818,701	\$4,284,630	19
Wholesale Trade	\$27,101,600	\$18,314,615	\$10,560,366	120
Retail Trade	\$60,833,896	\$50,458,265	\$30,172,428	811
Finance	\$13,518,279	\$7,516,011	\$4,376,585	40
Insurance	\$13,278,462	\$7,986,166	\$4,774,446	58
Real Estate	\$132,198,759	\$35,871,398	\$5,779,655	51
Hotels, Lodging Places, Amusements	\$6,486,862	\$3,391,801	\$2,225,131	55
Personal Services	\$12,870,807	\$7,948,721	\$6,184,240	107
Business Services	\$30,349,500	\$17,796,014	\$14,516,987	181
Eating & Drinking Places	\$32,655,921	\$19,157,399	\$10,192,753	472
Health Services	\$21,234,231	\$14,837,302	\$12,545,069	213
Miscellaneous Services	\$19,858,094	\$8,189,663	\$7,099,745	174
Households	\$992,591	\$992,591	\$971,584	69
<b>Total</b>	<b>\$1,366,073,238</b>	<b>\$453,884,159</b>	<b>\$247,359,249</b>	<b>3,586</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group

**The Annual Impact of Exploration, Drilling, and Operations in the  
Barnett Shale on Business Activity in the Barnett Shale Region 2003  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$7,840,449	\$2,182,977	\$1,486,730	24
Forestry & Fishery Products	\$94,525	\$116,382	\$43,167	0
Coal Mining	\$410,623	\$119,458	\$125,876	1
Crude Petroleum & Natural Gas	\$657,557,929	\$144,113,406	\$66,464,928	334
Miscellaneous Mining	\$422,454	\$179,853	\$105,724	1
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$46,295,977	\$25,013,110	\$20,612,362	298
Food Products & Tobacco	\$9,498,911	\$2,443,980	\$1,248,499	21
Textile Mill Products	\$27,518	\$9,387	\$7,942	0
Apparel	\$2,681,717	\$1,473,510	\$746,651	21
Paper & Allied Products	\$1,523,295	\$700,663	\$316,762	5
Printing & Publishing	\$3,642,265	\$1,831,701	\$1,195,588	20
Chemicals & Petroleum Refining	\$11,324,698	\$1,995,547	\$937,024	7
Rubber & Leather Products	\$2,195,235	\$921,369	\$538,628	11
Lumber Products & Furniture	\$1,197,694	\$384,016	\$273,785	5
Stone, Clay, & Glass Products	\$2,758,607	\$1,402,238	\$733,375	12
Primary Metal	\$1,994,024	\$599,835	\$446,488	7
Fabricated Metal Products	\$8,158,500	\$3,040,992	\$1,963,269	34
Machinery, Except Electrical	\$5,312,010	\$2,251,904	\$1,608,770	17
Electric & Electronic Equipment	\$2,368,158	\$1,308,111	\$782,028	6
Motor Vehicles & Equipment	\$1,353,206	\$322,478	\$209,500	3
Transp. Equip., Exc. Motor Vehicles	\$567,657	\$238,211	\$155,660	1
Instruments & Related Products	\$253,607	\$109,663	\$83,354	1
Miscellaneous Manufacturing	\$869,877	\$322,488	\$222,426	3
Transportation	\$17,097,371	\$11,167,101	\$7,385,520	105
Communication	\$7,627,457	\$4,717,906	\$2,014,224	18
Electric, Gas, Water, Sanitary Services	\$25,948,757	\$5,807,074	\$2,534,054	11
Wholesale Trade	\$16,867,468	\$11,398,114	\$6,572,254	76
Retail Trade	\$54,135,899	\$44,906,819	\$26,852,844	722
Finance	\$10,611,197	\$5,909,437	\$3,441,082	31
Insurance	\$6,312,549	\$3,797,269	\$2,270,162	27
Real Estate	\$89,480,307	\$23,228,515	\$3,742,621	34
Hotels, Lodging Places, Amusements	\$5,050,787	\$2,643,465	\$1,734,205	43
Personal Services	\$11,256,036	\$6,947,576	\$5,405,321	93
Business Services	\$18,439,699	\$10,700,194	\$8,728,617	109
Eating & Drinking Places	\$29,556,924	\$17,341,823	\$9,226,778	428
Health Services	\$16,334,680	\$11,425,001	\$9,659,946	163
Miscellaneous Services	\$18,079,334	\$7,474,922	\$6,480,128	159
Households	\$719,683	\$719,683	\$704,453	50
<b>Total</b>	<b>\$1,095,867,083</b>	<b>\$359,266,178</b>	<b>\$197,060,744</b>	<b>2,899</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Annual Impact of Exploration, Drilling, and Operations in the  
Barnett Shale on Business Activity in Texas 2003  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$10,264,900	\$2,854,204	\$1,943,873	32
Forestry & Fishery Products	\$215,291	\$262,412	\$97,324	1
Coal Mining	\$1,420,151	\$412,960	\$435,160	3
Crude Petroleum & Natural Gas	\$702,364,678	\$153,933,459	\$70,993,924	357
Miscellaneous Mining	\$587,032	\$249,963	\$146,936	2
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$49,489,309	\$26,719,651	\$22,018,648	318
Food Products & Tobacco	\$24,841,623	\$6,391,428	\$3,265,052	55
Textile Mill Products	\$287,987	\$96,727	\$81,832	2
Apparel	\$4,997,673	\$2,746,650	\$1,391,768	38
Paper & Allied Products	\$3,305,260	\$1,518,203	\$686,368	10
Printing & Publishing	\$5,276,014	\$2,654,052	\$1,732,357	30
Chemicals & Petroleum Refining	\$30,886,758	\$5,424,324	\$2,547,031	19
Rubber & Leather Products	\$3,293,233	\$1,383,401	\$808,726	16
Lumber Products & Furniture	\$1,498,375	\$481,883	\$343,555	7
Stone, Clay, & Glass Products	\$3,171,443	\$1,615,153	\$844,729	13
Primary Metal	\$4,829,466	\$1,451,693	\$1,080,574	16
Fabricated Metal Products	\$8,515,144	\$3,172,017	\$2,047,853	36
Machinery, Except Electrical	\$8,859,135	\$3,753,592	\$2,681,587	29
Electric & Electronic Equipment	\$3,630,844	\$2,003,300	\$1,197,645	9
Motor Vehicles & Equipment	\$1,735,768	\$412,810	\$268,187	3
Transp. Equip., Exc. Motor Vehicles	\$921,817	\$387,073	\$252,921	2
Instruments & Related Products	\$767,433	\$331,466	\$251,953	3
Miscellaneous Manufacturing	\$1,481,580	\$550,384	\$379,613	6
Transportation	\$18,973,079	\$12,412,064	\$8,208,895	117
Communication	\$13,374,328	\$8,261,078	\$3,526,920	32
Electric, Gas, Water, Sanitary Services	\$41,768,843	\$9,345,511	\$4,078,142	18
Wholesale Trade	\$25,795,499	\$17,431,983	\$10,051,433	114
Retail Trade	\$57,902,142	\$48,026,541	\$28,718,335	772
Finance	\$12,866,796	\$7,153,794	\$4,165,665	38
Insurance	\$12,638,536	\$7,601,290	\$4,544,352	55
Real Estate	\$125,827,735	\$34,142,656	\$5,501,118	49
Hotels, Lodging Places, Amusements	\$6,174,242	\$3,228,341	\$2,117,896	53
Personal Services	\$12,250,527	\$7,565,650	\$5,886,204	102
Business Services	\$28,886,874	\$16,938,374	\$13,817,373	172
Eating & Drinking Places	\$31,082,141	\$18,234,151	\$9,701,536	449
Health Services	\$20,210,894	\$14,122,251	\$11,940,487	202
Miscellaneous Services	\$18,901,077	\$7,794,980	\$6,757,589	166
Households	\$944,755	\$944,755	\$924,760	65
<b>Total</b>	<b>\$1,300,238,383</b>	<b>\$432,010,224</b>	<b>\$235,438,322</b>	<b>3,413</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Annual Impact of Exploration, Drilling, and Operations in the  
Barnett Shale on Business Activity in the Barnett Shale Region 2004  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$20,061,910	\$5,585,736	\$3,804,200	62
Forestry & Fishery Products	\$241,868	\$297,794	\$110,455	1
Coal Mining	\$1,050,691	\$305,665	\$322,088	2
Crude Petroleum & Natural Gas	\$1,682,539,727	\$368,753,110	\$170,068,487	855
Miscellaneous Mining	\$1,080,962	\$460,202	\$270,525	3
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$118,460,772	\$64,002,805	\$52,742,300	762
Food Products & Tobacco	\$24,305,531	\$6,253,583	\$3,194,622	54
Textile Mill Products	\$70,411	\$24,020	\$20,322	0
Apparel	\$6,861,897	\$3,770,373	\$1,910,508	53
Paper & Allied Products	\$3,897,762	\$1,792,836	\$810,521	12
Printing & Publishing	\$9,319,720	\$4,686,903	\$3,059,235	52
Chemicals & Petroleum Refining	\$28,977,301	\$5,106,147	\$2,397,630	17
Rubber & Leather Products	\$5,617,103	\$2,357,572	\$1,378,226	27
Lumber Products & Furniture	\$3,064,623	\$982,608	\$700,552	13
Stone, Clay, & Glass Products	\$7,058,642	\$3,588,005	\$1,876,538	30
Primary Metal	\$5,102,250	\$1,534,841	\$1,142,461	17
Fabricated Metal Products	\$20,875,727	\$7,781,201	\$5,023,553	87
Machinery, Except Electrical	\$13,592,212	\$5,762,105	\$4,116,472	44
Electric & Electronic Equipment	\$6,059,574	\$3,347,156	\$2,001,030	16
Motor Vehicles & Equipment	\$3,462,544	\$825,146	\$536,061	7
Transp. Equip., Exc. Motor Vehicles	\$1,452,503	\$609,528	\$398,298	4
Instruments & Related Products	\$648,921	\$280,604	\$213,283	2
Miscellaneous Manufacturing	\$2,225,815	\$825,174	\$569,138	8
Transportation	\$43,748,246	\$28,574,047	\$18,897,849	268
Communication	\$19,516,911	\$12,072,037	\$5,153,936	46
Electric, Gas, Water, Sanitary Services	\$66,396,910	\$14,858,969	\$6,484,062	27
Wholesale Trade	\$43,159,978	\$29,165,157	\$16,816,890	194
Retail Trade	\$138,521,332	\$114,906,236	\$68,710,260	1,846
Finance	\$27,151,616	\$15,120,892	\$8,804,938	79
Insurance	\$16,152,363	\$9,716,340	\$5,808,822	70
Real Estate	\$228,959,557	\$59,436,435	\$9,576,507	86
Hotels, Lodging Places, Amusements	\$12,923,804	\$6,764,020	\$4,437,433	110
Personal Services	\$28,801,612	\$17,777,251	\$13,830,974	239
Business Services	\$47,182,956	\$27,379,338	\$22,334,527	278
Eating & Drinking Places	\$75,629,380	\$44,373,742	\$23,609,206	1,094
Health Services	\$41,796,694	\$29,233,954	\$24,717,584	418
Miscellaneous Services	\$46,260,864	\$19,126,608	\$16,581,160	407
Households	\$1,841,503	\$1,841,503	\$1,802,534	128
<b>Total</b>	<b>\$2,804,072,192</b>	<b>\$919,279,641</b>	<b>\$504,233,187</b>	<b>7,419</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Annual Impact of Exploration, Drilling, and Operations in the  
Barnett Shale on Business Activity in Texas 2004  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$26,265,522	\$7,303,252	\$4,973,924	81
Forestry & Fishery Products	\$550,880	\$671,451	\$249,030	3
Coal Mining	\$3,633,841	\$1,056,669	\$1,113,475	6
Crude Petroleum & Natural Gas	\$1,797,189,909	\$393,880,369	\$181,657,148	913
Miscellaneous Mining	\$1,502,079	\$639,597	\$375,974	4
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$126,631,776	\$68,369,451	\$56,340,664	814
Food Products & Tobacco	\$63,564,008	\$16,354,197	\$8,354,518	142
Textile Mill Products	\$736,893	\$247,503	\$209,389	4
Apparel	\$12,787,898	\$7,028,046	\$3,561,214	98
Paper & Allied Products	\$8,457,402	\$3,884,732	\$1,756,258	27
Printing & Publishing	\$13,500,108	\$6,791,108	\$4,432,704	77
Chemicals & Petroleum Refining	\$79,032,121	\$13,879,599	\$6,517,268	49
Rubber & Leather Products	\$8,426,628	\$3,539,804	\$2,069,345	40
Lumber Products & Furniture	\$3,833,997	\$1,233,029	\$879,078	17
Stone, Clay, & Glass Products	\$8,114,994	\$4,132,806	\$2,161,469	34
Primary Metal	\$12,357,493	\$3,714,548	\$2,764,940	42
Fabricated Metal Products	\$21,788,297	\$8,116,462	\$5,239,987	93
Machinery, Except Electrical	\$22,668,491	\$9,604,581	\$6,861,566	73
Electric & Electronic Equipment	\$9,290,495	\$5,125,984	\$3,064,498	24
Motor Vehicles & Equipment	\$4,441,433	\$1,056,286	\$686,230	9
Transp. Equip., Exc. Motor Vehicles	\$2,358,718	\$990,431	\$647,168	6
Instruments & Related Products	\$1,963,685	\$848,146	\$644,689	6
Miscellaneous Manufacturing	\$3,791,024	\$1,408,307	\$971,344	15
Transportation	\$48,547,752	\$31,759,621	\$21,004,676	299
Communication	\$34,221,835	\$21,138,202	\$9,024,578	81
Electric, Gas, Water, Sanitary Services	\$106,876,877	\$23,913,016	\$10,435,028	45
Wholesale Trade	\$66,004,758	\$44,604,441	\$25,719,308	293
Retail Trade	\$148,158,283	\$122,888,889	\$73,483,624	1,976
Finance	\$32,923,175	\$18,304,916	\$10,658,980	98
Insurance	\$32,339,110	\$19,449,956	\$11,627,954	142
Real Estate	\$321,964,276	\$87,363,215	\$14,076,097	125
Hotels, Lodging Places, Amusements	\$15,798,467	\$8,260,583	\$5,419,210	135
Personal Services	\$31,346,285	\$19,358,762	\$15,061,445	260
Business Services	\$73,914,875	\$43,341,410	\$35,355,485	441
Eating & Drinking Places	\$79,532,061	\$46,657,004	\$24,824,003	1,150
Health Services	\$51,715,037	\$36,135,597	\$30,552,964	518
Miscellaneous Services	\$48,363,516	\$19,945,564	\$17,291,118	424
Households	\$2,417,412	\$2,417,412	\$2,366,249	167
<b>Total</b>	<b>\$3,327,011,415</b>	<b>\$1,105,414,949</b>	<b>\$602,432,596</b>	<b>8,733</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group

**The Annual Impact of Exploration, Drilling, and Operations in the  
Barnett Shale on Business Activity in the Barnett Shale Region 2005  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$43,384,766	\$12,079,401	\$8,226,751	134
Forestry & Fishery Products	\$523,051	\$643,992	\$238,864	3
Coal Mining	\$2,272,165	\$661,013	\$696,529	4
Crude Petroleum & Natural Gas	\$3,638,566,477	\$797,444,889	\$367,780,615	1,849
Miscellaneous Mining	\$2,337,628	\$995,206	\$585,021	6
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$256,176,651	\$138,408,892	\$114,057,554	1,648
Food Products & Tobacco	\$52,561,785	\$13,523,649	\$6,908,511	117
Textile Mill Products	\$152,267	\$51,944	\$43,947	1
Apparel	\$14,839,155	\$8,153,598	\$4,131,559	114
Paper & Allied Products	\$8,429,082	\$3,877,086	\$1,752,788	27
Printing & Publishing	\$20,154,305	\$10,135,635	\$6,615,731	113
Chemicals & Petroleum Refining	\$62,664,694	\$11,042,268	\$5,184,981	38
Rubber & Leather Products	\$12,147,234	\$5,098,353	\$2,980,475	58
Lumber Products & Furniture	\$6,627,382	\$2,124,934	\$1,514,975	29
Stone, Clay, & Glass Products	\$15,264,625	\$7,759,218	\$4,058,097	64
Primary Metal	\$11,033,841	\$3,319,161	\$2,470,622	37
Fabricated Metal Products	\$45,144,683	\$16,827,190	\$10,863,656	188
Machinery, Except Electrical	\$29,393,760	\$12,460,806	\$8,902,052	94
Electric & Electronic Equipment	\$13,104,096	\$7,238,372	\$4,327,315	34
Motor Vehicles & Equipment	\$7,487,904	\$1,784,415	\$1,159,256	15
Transp. Equip., Exc. Motor Vehicles	\$3,141,102	\$1,318,131	\$861,338	8
Instruments & Related Products	\$1,403,320	\$606,818	\$461,234	5
Miscellaneous Manufacturing	\$4,813,423	\$1,784,474	\$1,230,786	18
Transportation	\$94,607,513	\$61,792,638	\$40,867,432	579
Communication	\$42,206,182	\$26,106,313	\$11,145,613	99
Electric, Gas, Water, Sanitary Services	\$143,586,250	\$32,133,177	\$14,022,070	58
Wholesale Trade	\$93,335,358	\$63,070,941	\$36,367,267	419
Retail Trade	\$299,558,498	\$248,489,812	\$148,588,971	3,993
Finance	\$58,716,568	\$32,699,597	\$19,041,068	171
Insurance	\$34,930,199	\$21,012,015	\$12,561,834	152
Real Estate	\$495,135,155	\$128,533,917	\$20,709,618	186
Hotels, Lodging Places, Amusements	\$27,948,298	\$14,627,492	\$9,596,145	239
Personal Services	\$62,284,759	\$38,444,091	\$29,910,093	516
Business Services	\$102,035,227	\$59,209,028	\$48,299,401	602
Eating & Drinking Places	\$163,551,874	\$95,960,177	\$51,055,952	2,366
Health Services	\$90,387,197	\$63,219,717	\$53,452,867	904
Miscellaneous Services	\$100,041,163	\$41,362,135	\$35,857,492	880
Households	\$3,982,332	\$3,982,332	\$3,898,059	276
<b>Total</b>	<b>\$6,063,929,970</b>	<b>\$1,987,982,829</b>	<b>\$1,090,426,540</b>	<b>16,044</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Annual Impact of Exploration, Drilling, and Operations in the  
Barnett Shale on Business Activity in Texas 2005  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$56,800,352	\$15,793,606	\$10,756,329	176
Forestry & Fishery Products	\$1,191,303	\$1,452,042	\$538,539	7
Coal Mining	\$7,858,342	\$2,285,094	\$2,407,940	14
Crude Petroleum & Natural Gas	\$3,886,502,560	\$851,783,696	\$392,841,607	1,975
Miscellaneous Mining	\$3,248,312	\$1,383,158	\$813,061	9
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$273,846,810	\$147,851,957	\$121,839,175	1,760
Food Products & Tobacco	\$137,459,976	\$35,366,673	\$18,067,013	307
Textile Mill Products	\$1,593,564	\$535,237	\$452,813	9
Apparel	\$27,654,394	\$15,198,460	\$7,701,283	213
Paper & Allied Products	\$18,289,506	\$8,400,906	\$3,797,986	58
Printing & Publishing	\$29,194,581	\$14,686,072	\$9,585,917	167
Chemicals & Petroleum Refining	\$170,910,453	\$30,015,245	\$14,093,879	106
Rubber & Leather Products	\$18,222,955	\$7,654,983	\$4,475,050	87
Lumber Products & Furniture	\$8,291,187	\$2,666,479	\$1,901,045	37
Stone, Clay, & Glass Products	\$17,549,033	\$8,937,375	\$4,674,272	73
Primary Metal	\$26,723,625	\$8,032,874	\$5,979,305	91
Fabricated Metal Products	\$47,118,154	\$17,552,208	\$11,331,702	201
Machinery, Except Electrical	\$49,021,613	\$20,770,330	\$14,838,440	159
Electric & Electronic Equipment	\$20,091,107	\$11,085,168	\$6,627,113	52
Motor Vehicles & Equipment	\$9,604,795	\$2,284,265	\$1,484,002	19
Transp. Equip., Exc. Motor Vehicles	\$5,100,831	\$2,141,851	\$1,399,529	12
Instruments & Related Products	\$4,246,557	\$1,834,154	\$1,394,168	14
Miscellaneous Manufacturing	\$8,198,257	\$3,045,527	\$2,100,574	31
Transportation	\$104,986,658	\$68,681,583	\$45,423,540	646
Communication	\$74,006,230	\$45,712,295	\$19,516,049	176
Electric, Gas, Water, Sanitary Services	\$231,125,966	\$51,712,953	\$22,566,209	98
Wholesale Trade	\$142,738,205	\$96,459,074	\$55,619,139	633
Retail Trade	\$320,398,830	\$265,752,651	\$158,911,582	4,273
Finance	\$71,197,820	\$39,585,189	\$23,050,515	211
Insurance	\$69,934,754	\$42,061,389	\$25,145,964	307
Real Estate	\$696,261,968	\$188,926,811	\$30,440,180	270
Hotels, Lodging Places, Amusements	\$34,164,882	\$17,863,876	\$11,719,280	291
Personal Services	\$67,787,727	\$41,864,178	\$32,571,041	562
Business Services	\$159,844,183	\$93,727,713	\$76,457,798	954
Eating & Drinking Places	\$171,991,595	\$100,897,833	\$53,683,003	2,486
Health Services	\$111,836,052	\$78,144,824	\$66,072,134	1,120
Miscellaneous Services	\$104,588,240	\$43,133,163	\$37,392,806	918
Households	\$5,227,760	\$5,227,760	\$5,117,118	361
<b>Total</b>	<b>\$7,194,809,137</b>	<b>\$2,390,508,654</b>	<b>\$1,302,787,097</b>	<b>18,885</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Annual Impact of Exploration, Drilling, and Operations in the  
Barnett Shale on Business Activity in the Barnett Shale Region 2006  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$86,117,342	\$23,977,216	\$16,329,832	265
Forestry & Fishery Products	\$1,038,240	\$1,278,304	\$474,138	5
Coal Mining	\$4,510,174	\$1,312,090	\$1,382,587	8
Crude Petroleum & Natural Gas	\$7,222,435,549	\$1,582,902,043	\$730,032,502	3,670
Miscellaneous Mining	\$4,640,115	\$1,975,452	\$1,161,248	13
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$508,502,281	\$274,737,127	\$226,400,516	3,272
Food Products & Tobacco	\$104,333,425	\$26,844,000	\$13,713,168	233
Textile Mill Products	\$302,246	\$103,107	\$87,233	2
Apparel	\$29,455,238	\$16,184,625	\$8,201,009	225
Paper & Allied Products	\$16,731,453	\$7,695,890	\$3,479,227	53
Printing & Publishing	\$40,005,637	\$20,118,904	\$13,132,010	225
Chemicals & Petroleum Refining	\$124,387,370	\$21,918,542	\$10,292,019	75
Rubber & Leather Products	\$24,111,863	\$10,120,063	\$5,916,145	116
Lumber Products & Furniture	\$13,155,137	\$4,217,925	\$3,007,177	58
Stone, Clay, & Glass Products	\$30,299,781	\$15,401,795	\$8,055,191	127
Primary Metal	\$21,901,814	\$6,588,425	\$4,904,103	73
Fabricated Metal Products	\$89,610,720	\$33,401,422	\$21,564,002	374
Machinery, Except Electrical	\$58,345,653	\$24,734,293	\$17,670,282	187
Electric & Electronic Equipment	\$26,011,201	\$14,367,932	\$8,589,579	68
Motor Vehicles & Equipment	\$14,863,244	\$3,542,006	\$2,301,085	29
Transp. Equip., Exc. Motor Vehicles	\$6,234,985	\$2,616,447	\$1,709,727	16
Instruments & Related Products	\$2,785,545	\$1,204,514	\$915,535	9
Miscellaneous Manufacturing	\$9,554,488	\$3,542,123	\$2,443,070	35
Transportation	\$187,792,822	\$122,656,367	\$81,120,518	1,149
Communication	\$83,777,892	\$51,820,179	\$22,123,678	197
Electric, Gas, Water, Sanitary Services	\$285,014,015	\$63,783,306	\$27,833,350	116
Wholesale Trade	\$185,267,636	\$125,193,756	\$72,187,836	832
Retail Trade	\$594,613,829	\$493,244,155	\$294,944,252	7,926
Finance	\$116,550,469	\$64,907,632	\$37,795,899	339
Insurance	\$69,335,303	\$41,708,164	\$24,934,830	301
Real Estate	\$982,827,101	\$255,135,624	\$41,107,916	369
Hotels, Lodging Places, Amusements	\$55,476,458	\$29,035,094	\$19,048,034	474
Personal Services	\$123,633,211	\$76,310,264	\$59,370,557	1,024
Business Services	\$202,536,590	\$117,527,985	\$95,872,733	1,195
Eating & Drinking Places	\$324,645,125	\$190,477,816	\$101,344,395	4,696
Health Services	\$179,415,632	\$125,489,071	\$106,102,195	1,794
Miscellaneous Services	\$198,578,439	\$82,102,487	\$71,175,949	1,746
Households	\$7,904,800	\$7,904,800	\$7,737,519	548
<b>Total</b>	<b>\$12,036,702,823</b>	<b>\$3,946,080,948</b>	<b>\$2,164,461,046</b>	<b>31,847</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group





**The Annual Impact of Exploration, Drilling, and Operations in the  
Barnett Shale on Business Activity in Texas 2006  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$112,746,843	\$31,349,791	\$21,350,962	350
Forestry & Fishery Products	\$2,364,697	\$2,882,256	\$1,068,981	14
Coal Mining	\$15,598,552	\$4,535,837	\$4,779,681	28
Crude Petroleum & Natural Gas	\$7,714,580,572	\$1,690,762,800	\$779,777,752	3,920
Miscellaneous Mining	\$6,447,793	\$2,745,523	\$1,613,900	17
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$543,576,968	\$293,481,303	\$241,846,781	3,495
Food Products & Tobacco	\$272,853,560	\$70,201,690	\$35,862,431	610
Textile Mill Products	\$3,163,173	\$1,062,428	\$898,818	17
Apparel	\$54,893,069	\$30,168,447	\$15,286,796	423
Paper & Allied Products	\$36,304,072	\$16,675,523	\$7,538,877	114
Printing & Publishing	\$57,950,289	\$29,151,373	\$19,027,733	332
Chemicals & Petroleum Refining	\$339,251,664	\$59,579,281	\$27,975,889	211
Rubber & Leather Products	\$36,171,969	\$15,194,891	\$8,882,827	173
Lumber Products & Furniture	\$16,457,736	\$5,292,874	\$3,773,512	73
Stone, Clay, & Glass Products	\$34,834,258	\$17,740,397	\$9,278,276	145
Primary Metal	\$53,045,522	\$15,944,992	\$11,868,724	180
Fabricated Metal Products	\$93,527,997	\$34,840,559	\$22,493,059	398
Machinery, Except Electrical	\$97,306,299	\$41,228,427	\$29,453,818	315
Electric & Electronic Equipment	\$39,880,190	\$22,003,696	\$13,154,602	104
Motor Vehicles & Equipment	\$19,065,204	\$4,534,191	\$2,945,696	38
Transp. Equip., Exc. Motor Vehicles	\$10,124,983	\$4,251,504	\$2,778,018	24
Instruments & Related Products	\$8,429,276	\$3,640,736	\$2,767,379	28
Miscellaneous Manufacturing	\$16,273,272	\$6,045,272	\$4,169,570	62
Transportation	\$208,395,085	\$136,330,697	\$90,164,242	1,281
Communication	\$146,899,948	\$90,737,413	\$38,738,719	350
Electric, Gas, Water, Sanitary Services	\$458,777,490	\$102,648,523	\$44,793,187	194
Wholesale Trade	\$283,330,673	\$191,468,110	\$110,402,174	1,257
Retail Trade	\$635,981,207	\$527,510,327	\$315,434,297	8,482
Finance	\$141,325,347	\$78,575,307	\$45,754,519	419
Insurance	\$138,818,202	\$83,490,483	\$49,913,917	610
Real Estate	\$1,382,057,254	\$375,013,546	\$60,422,763	537
Hotels, Lodging Places, Amusements	\$67,816,174	\$35,459,211	\$23,262,388	578
Personal Services	\$134,556,423	\$83,099,025	\$64,652,452	1,115
Business Services	\$317,285,479	\$186,046,448	\$151,766,230	1,894
Eating & Drinking Places	\$341,397,696	\$200,278,901	\$106,559,006	4,935
Health Services	\$221,990,908	\$155,114,923	\$131,151,026	2,223
Miscellaneous Services	\$207,604,238	\$85,617,918	\$74,223,497	1,822
Households	\$10,376,933	\$10,376,933	\$10,157,313	717
<b>Total</b>	<b>\$14,281,461,013</b>	<b>\$4,745,081,556</b>	<b>\$2,585,989,813</b>	<b>37,487</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Annual Impact of Exploration, Drilling, and Operations in the  
Barnett Shale on Business Activity in the Barnett Shale Region 2007  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$139,922,958	\$38,958,042	\$26,532,616	431
Forestry & Fishery Products	\$1,686,926	\$2,076,980	\$770,376	9
Coal Mining	\$7,328,105	\$2,131,876	\$2,246,419	13
Crude Petroleum & Natural Gas	\$11,734,971,425	\$2,571,890,067	\$1,186,152,578	5,964
Miscellaneous Mining	\$7,539,231	\$3,209,703	\$1,886,789	21
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$826,211,560	\$446,391,292	\$367,854,247	5,316
Food Products & Tobacco	\$169,520,344	\$43,615,976	\$22,281,076	378
Textile Mill Products	\$491,087	\$167,528	\$141,735	3
Apparel	\$47,858,700	\$26,296,686	\$13,324,952	366
Paper & Allied Products	\$27,185,168	\$12,504,237	\$5,653,028	87
Printing & Publishing	\$65,000,927	\$32,689,079	\$21,336,815	366
Chemicals & Petroleum Refining	\$202,103,878	\$35,613,119	\$16,722,412	122
Rubber & Leather Products	\$39,176,815	\$16,443,020	\$9,612,519	189
Lumber Products & Furniture	\$21,374,390	\$6,853,259	\$4,886,043	94
Stone, Clay, & Glass Products	\$49,230,909	\$25,024,747	\$13,088,027	206
Primary Metal	\$35,585,941	\$10,704,835	\$7,968,158	118
Fabricated Metal Products	\$145,598,978	\$54,270,437	\$35,037,066	607
Machinery, Except Electrical	\$94,799,678	\$40,188,136	\$28,710,572	304
Electric & Electronic Equipment	\$42,262,849	\$23,344,933	\$13,956,298	111
Motor Vehicles & Equipment	\$24,149,713	\$5,755,031	\$3,738,790	47
Transp. Equip., Exc. Motor Vehicles	\$10,130,567	\$4,251,188	\$2,777,954	26
Instruments & Related Products	\$4,525,937	\$1,957,087	\$1,487,556	15
Miscellaneous Manufacturing	\$15,524,077	\$5,755,222	\$3,969,486	57
Transportation	\$305,124,690	\$199,291,354	\$131,804,147	1,868
Communication	\$136,121,833	\$84,197,126	\$35,946,424	320
Electric, Gas, Water, Sanitary Services	\$463,089,119	\$103,634,747	\$45,223,466	188
Wholesale Trade	\$301,021,781	\$203,414,089	\$117,290,378	1,352
Retail Trade	\$966,125,104	\$801,420,245	\$479,223,712	12,878
Finance	\$189,370,526	\$105,461,545	\$61,410,557	551
Insurance	\$112,655,598	\$67,767,183	\$40,513,967	489
Real Estate	\$1,596,891,778	\$414,542,883	\$66,791,903	600
Hotels, Lodging Places, Amusements	\$90,137,828	\$47,176,052	\$30,949,136	771
Personal Services	\$200,878,525	\$123,988,475	\$96,464,937	1,664
Business Services	\$329,080,278	\$190,958,790	\$155,773,460	1,941
Eating & Drinking Places	\$527,481,518	\$309,487,251	\$164,663,786	7,630
Health Services	\$291,513,479	\$203,893,916	\$172,394,231	2,915
Miscellaneous Services	\$322,649,096	\$133,399,644	\$115,646,269	2,838
Households	\$12,843,673	\$12,843,673	\$12,571,876	891
<b>Total</b>	<b>\$19,557,164,991</b>	<b>\$6,411,569,456</b>	<b>\$3,516,803,765</b>	<b>51,745</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Annual Impact of Exploration, Drilling, and Operations in the  
Barnett Shale on Business Activity in Texas 2007  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$183,190,417	\$50,936,960	\$34,690,920	568
Forestry & Fishery Products	\$3,842,146	\$4,683,073	\$1,736,875	23
Coal Mining	\$25,344,437	\$7,369,802	\$7,765,999	45
Crude Petroleum & Natural Gas	\$12,534,605,807	\$2,747,141,599	\$1,266,978,372	6,370
Miscellaneous Mining	\$10,476,336	\$4,460,910	\$2,622,255	28
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$883,200,708	\$476,846,720	\$392,951,248	5,678
Food Products & Tobacco	\$443,330,883	\$114,063,299	\$58,269,070	990
Textile Mill Products	\$5,139,505	\$1,726,226	\$1,460,395	28
Apparel	\$89,189,940	\$49,017,518	\$24,837,897	687
Paper & Allied Products	\$58,986,645	\$27,094,293	\$12,249,124	186
Printing & Publishing	\$94,157,293	\$47,364,982	\$30,916,150	540
Chemicals & Petroleum Refining	\$551,214,138	\$96,804,071	\$45,455,063	343
Rubber & Leather Products	\$58,772,006	\$24,688,571	\$14,432,766	281
Lumber Products & Furniture	\$26,740,434	\$8,599,831	\$6,131,180	118
Stone, Clay, & Glass Products	\$56,598,500	\$28,824,494	\$15,075,289	236
Primary Metal	\$86,188,057	\$25,907,330	\$19,284,234	293
Fabricated Metal Products	\$151,963,747	\$56,608,739	\$36,546,592	647
Machinery, Except Electrical	\$158,102,711	\$66,987,709	\$47,856,392	512
Electric & Electronic Equipment	\$64,797,102	\$35,751,477	\$21,373,521	169
Motor Vehicles & Equipment	\$30,977,033	\$7,367,127	\$4,786,150	62
Transp. Equip., Exc. Motor Vehicles	\$16,451,014	\$6,907,819	\$4,513,708	39
Instruments & Related Products	\$13,695,839	\$5,915,447	\$4,496,421	45
Miscellaneous Manufacturing	\$26,440,718	\$9,822,322	\$6,774,694	101
Transportation	\$338,599,126	\$221,509,327	\$146,498,338	2,082
Communication	\$238,682,184	\$147,429,622	\$62,942,446	568
Electric, Gas, Water, Sanitary Services	\$745,419,007	\$166,782,725	\$72,779,711	315
Wholesale Trade	\$460,354,036	\$311,096,276	\$179,380,812	2,043
Retail Trade	\$1,033,338,580	\$857,095,723	\$512,515,817	13,781
Finance	\$229,624,604	\$127,668,703	\$74,341,677	681
Insurance	\$225,551,010	\$135,654,853	\$81,099,842	990
Real Estate	\$2,245,558,617	\$609,319,836	\$98,174,556	872
Hotels, Lodging Places, Amusements	\$110,187,326	\$57,613,920	\$37,796,593	940
Personal Services	\$218,626,496	\$135,018,815	\$105,046,929	1,812
Business Services	\$515,523,608	\$302,287,191	\$246,588,892	3,078
Eating & Drinking Places	\$554,700,999	\$325,411,997	\$173,136,455	8,019
Health Services	\$360,689,541	\$252,029,828	\$213,093,428	3,613
Miscellaneous Services	\$337,314,162	\$139,111,498	\$120,597,908	2,960
Households	\$16,860,380	\$16,860,380	\$16,503,543	1,165
<b>Total</b>	<b>\$23,204,435,089</b>	<b>\$7,709,781,014</b>	<b>\$4,201,701,262</b>	<b>60,909</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Annual Impact of Exploration, Drilling, and Operations in the  
Barnett Shale on Business Activity in the Barnett Shale Region 2008  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$195,770,211	\$54,507,310	\$37,122,541	603
Forestry & Fishery Products	\$2,360,226	\$2,905,963	\$1,077,855	12
Coal Mining	\$10,252,961	\$2,982,769	\$3,143,029	19
Crude Petroleum & Natural Gas	\$16,418,733,959	\$3,598,404,909	\$1,659,579,977	8,344
Miscellaneous Mining	\$10,548,354	\$4,490,788	\$2,639,860	29
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$1,155,976,210	\$624,558,816	\$514,675,392	7,437
Food Products & Tobacco	\$237,180,760	\$61,024,359	\$31,174,091	530
Textile Mill Products	\$687,094	\$234,393	\$198,306	5
Apparel	\$66,960,475	\$36,792,445	\$18,643,322	512
Paper & Allied Products	\$38,035,545	\$17,495,035	\$7,909,313	121
Printing & Publishing	\$90,944,656	\$45,736,224	\$29,852,947	512
Chemicals & Petroleum Refining	\$282,769,312	\$49,827,333	\$23,396,805	171
Rubber & Leather Products	\$54,813,402	\$23,005,900	\$13,449,150	264
Lumber Products & Furniture	\$29,905,520	\$9,588,591	\$6,836,203	132
Stone, Clay, & Glass Products	\$68,880,371	\$35,012,839	\$18,311,833	288
Primary Metal	\$49,789,307	\$14,977,441	\$11,148,478	166
Fabricated Metal Products	\$203,711,692	\$75,931,320	\$49,021,361	850
Machinery, Except Electrical	\$132,636,940	\$56,228,370	\$40,169,783	425
Electric & Electronic Equipment	\$59,131,161	\$32,662,563	\$19,526,655	155
Motor Vehicles & Equipment	\$33,788,554	\$8,052,029	\$5,231,047	66
Transp. Equip., Exc. Motor Vehicles	\$14,173,966	\$5,947,959	\$3,886,715	37
Instruments & Related Products	\$6,332,368	\$2,738,216	\$2,081,283	21
Miscellaneous Manufacturing	\$21,720,180	\$8,052,295	\$5,553,821	80
Transportation	\$426,908,675	\$278,834,231	\$184,410,950	2,613
Communication	\$190,451,948	\$117,802,606	\$50,293,670	448
Electric, Gas, Water, Sanitary Services	\$647,921,224	\$144,998,336	\$63,273,444	263
Wholesale Trade	\$421,168,179	\$284,602,466	\$164,104,321	1,891
Retail Trade	\$1,351,733,249	\$1,121,289,973	\$670,495,593	18,018
Finance	\$264,953,716	\$147,554,262	\$85,921,266	771
Insurance	\$157,619,668	\$94,815,003	\$56,684,250	685
Real Estate	\$2,234,256,933	\$579,998,797	\$93,450,461	839
Hotels, Lodging Places, Amusements	\$126,114,412	\$66,005,364	\$43,301,820	1,078
Personal Services	\$281,054,886	\$173,475,820	\$134,966,851	2,328
Business Services	\$460,425,624	\$267,175,901	\$217,947,101	2,716
Eating & Drinking Places	\$738,014,469	\$433,012,459	\$230,385,810	10,676
Health Services	\$407,864,842	\$285,273,806	\$241,201,696	4,078
Miscellaneous Services	\$451,427,573	\$186,643,255	\$161,804,001	3,970
Households	\$17,969,950	\$17,969,950	\$17,589,671	1,247
<b>Total</b>	<b>\$27,362,988,570</b>	<b>\$8,970,610,097</b>	<b>\$4,920,460,673</b>	<b>72,397</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Annual Impact of Exploration, Drilling, and Operations in the  
Barnett Shale on Business Activity in Texas 2008  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$256,306,948	\$71,267,356	\$48,537,057	795
Forestry & Fishery Products	\$5,375,656	\$6,552,222	\$2,430,111	31
Coal Mining	\$35,460,127	\$10,311,300	\$10,865,631	63
Crude Petroleum & Natural Gas	\$17,537,525,279	\$3,843,604,337	\$1,772,665,656	8,912
Miscellaneous Mining	\$14,657,742	\$6,241,387	\$3,668,872	39
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$1,235,711,356	\$667,169,876	\$549,789,323	7,944
Food Products & Tobacco	\$620,276,910	\$159,589,222	\$81,525,921	1,386
Textile Mill Products	\$7,190,828	\$2,415,212	\$2,043,280	39
Apparel	\$124,788,195	\$68,581,811	\$34,751,412	961
Paper & Allied Products	\$82,529,901	\$37,908,400	\$17,138,100	260
Printing & Publishing	\$131,738,160	\$66,269,700	\$43,255,669	756
Chemicals & Petroleum Refining	\$771,219,456	\$135,441,343	\$63,597,478	480
Rubber & Leather Products	\$82,229,594	\$34,542,485	\$20,193,296	394
Lumber Products & Furniture	\$37,413,305	\$12,032,269	\$8,578,309	165
Stone, Clay, & Glass Products	\$79,188,579	\$40,329,174	\$21,092,268	331
Primary Metal	\$120,588,174	\$36,247,686	\$26,981,124	409
Fabricated Metal Products	\$212,616,822	\$79,202,905	\$51,133,381	905
Machinery, Except Electrical	\$221,206,023	\$93,724,419	\$66,957,246	716
Electric & Electronic Equipment	\$90,659,477	\$50,020,914	\$29,904,304	236
Motor Vehicles & Equipment	\$43,340,852	\$10,307,559	\$6,696,439	87
Transp. Equip., Exc. Motor Vehicles	\$23,017,084	\$9,664,927	\$6,315,258	55
Instruments & Related Products	\$19,162,240	\$8,276,471	\$6,291,071	63
Miscellaneous Manufacturing	\$36,993,964	\$13,742,692	\$9,478,668	142
Transportation	\$473,743,716	\$309,920,031	\$204,970,012	2,913
Communication	\$333,947,066	\$206,272,998	\$88,064,576	795
Electric, Gas, Water, Sanitary Services	\$1,042,937,040	\$233,350,477	\$101,828,174	441
Wholesale Trade	\$644,094,490	\$435,263,692	\$250,976,822	2,858
Retail Trade	\$1,445,773,545	\$1,199,187,126	\$717,075,530	19,281
Finance	\$321,274,347	\$178,624,932	\$104,013,566	953
Insurance	\$315,574,865	\$189,798,582	\$113,469,108	1,386
Real Estate	\$3,141,825,249	\$852,516,800	\$137,358,827	1,220
Hotels, Lodging Places, Amusements	\$154,166,238	\$80,609,283	\$52,882,294	1,315
Personal Services	\$305,886,579	\$188,908,683	\$146,974,162	2,535
Business Services	\$721,283,815	\$422,938,650	\$345,009,567	4,307
Eating & Drinking Places	\$776,098,023	\$455,293,227	\$242,240,163	11,219
Health Services	\$504,651,047	\$352,622,136	\$298,145,106	5,055
Miscellaneous Services	\$471,945,887	\$194,634,873	\$168,731,981	4,141
Households	\$23,589,840	\$23,589,840	\$23,090,579	1,630
<b>Total</b>	<b>\$32,465,988,420</b>	<b>\$10,786,974,996</b>	<b>\$5,878,720,339</b>	<b>85,219</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Annual Impact of Exploration, Drilling, and Operations in the  
Barnett Shale on Business Activity in the Barnett Shale Region 2009  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$149,772,809	\$41,700,486	\$28,400,374	461
Forestry & Fishery Products	\$1,805,677	\$2,223,189	\$824,607	10
Coal Mining	\$7,843,965	\$2,281,949	\$2,404,555	14
Crude Petroleum & Natural Gas	\$12,561,052,562	\$2,752,937,791	\$1,269,651,569	6,383
Miscellaneous Mining	\$8,069,954	\$3,435,650	\$2,019,609	22
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$884,372,569	\$477,814,924	\$393,749,278	5,690
Food Products & Tobacco	\$181,453,698	\$46,686,315	\$23,849,549	405
Textile Mill Products	\$525,657	\$179,321	\$151,713	4
Apparel	\$51,227,704	\$28,147,836	\$14,262,960	392
Paper & Allied Products	\$29,098,862	\$13,384,470	\$6,050,972	93
Printing & Publishing	\$69,576,656	\$34,990,220	\$22,838,816	391
Chemicals & Petroleum Refining	\$216,330,943	\$38,120,098	\$17,899,584	131
Rubber & Leather Products	\$41,934,660	\$17,600,524	\$10,289,190	202
Lumber Products & Furniture	\$22,879,036	\$7,335,693	\$5,229,996	101
Stone, Clay, & Glass Products	\$52,696,509	\$26,786,359	\$14,009,356	221
Primary Metal	\$38,091,006	\$11,458,400	\$8,529,075	127
Fabricated Metal Products	\$155,848,391	\$58,090,794	\$37,503,494	650
Machinery, Except Electrical	\$101,473,084	\$43,017,173	\$30,731,648	325
Electric & Electronic Equipment	\$45,237,935	\$24,988,295	\$14,938,749	118
Motor Vehicles & Equipment	\$25,849,728	\$6,160,156	\$4,001,981	51
Transp. Equip., Exc. Motor Vehicles	\$10,843,706	\$4,550,450	\$2,973,508	28
Instruments & Related Products	\$4,844,540	\$2,094,855	\$1,592,273	16
Miscellaneous Manufacturing	\$16,616,892	\$6,160,359	\$4,248,917	61
Transportation	\$326,603,885	\$213,320,432	\$141,082,476	1,999
Communication	\$145,704,104	\$90,124,168	\$38,476,866	343
Electric, Gas, Water, Sanitary Services	\$495,688,192	\$110,930,095	\$48,406,963	202
Wholesale Trade	\$322,212,154	\$217,733,386	\$125,547,012	1,447
Retail Trade	\$1,034,135,301	\$857,836,075	\$512,958,576	13,785
Finance	\$202,701,229	\$112,885,491	\$65,733,542	590
Insurance	\$120,585,968	\$72,537,642	\$43,365,941	524
Real Estate	\$1,709,304,679	\$443,724,553	\$71,493,707	642
Hotels, Lodging Places, Amusements	\$96,483,064	\$50,497,002	\$33,127,794	825
Personal Services	\$215,019,331	\$132,716,621	\$103,255,569	1,781
Business Services	\$352,245,823	\$204,401,298	\$166,739,104	2,078
Eating & Drinking Places	\$564,613,481	\$331,273,549	\$176,255,263	8,167
Health Services	\$312,034,517	\$218,246,990	\$184,529,891	3,120
Miscellaneous Services	\$345,361,919	\$142,790,287	\$123,787,167	3,037
Households	\$13,747,801	\$13,747,801	\$13,456,871	954
<b>Total</b>	<b>\$20,933,887,993</b>	<b>\$6,862,910,699</b>	<b>\$3,764,368,513</b>	<b>55,387</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Annual Impact of Exploration, Drilling, and Operations in the  
Barnett Shale on Business Activity in Texas 2009  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$196,086,072	\$54,522,657	\$37,132,981	608
Forestry & Fishery Products	\$4,112,613	\$5,012,737	\$1,859,142	24
Coal Mining	\$27,128,554	\$7,888,598	\$8,312,685	48
Crude Petroleum & Natural Gas	\$13,416,977,057	\$2,940,526,122	\$1,356,167,080	6,818
Miscellaneous Mining	\$11,213,816	\$4,774,935	\$2,806,848	30
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$945,373,458	\$510,414,256	\$420,612,978	6,078
Food Products & Tobacco	\$474,539,078	\$122,092,763	\$62,370,910	1,060
Textile Mill Products	\$5,501,299	\$1,847,743	\$1,563,199	30
Apparel	\$95,468,450	\$52,468,097	\$26,586,356	735
Paper & Allied Products	\$63,138,999	\$29,001,591	\$13,111,399	199
Printing & Publishing	\$100,785,478	\$50,699,231	\$33,092,486	578
Chemicals & Petroleum Refining	\$590,016,755	\$103,618,576	\$48,654,864	367
Rubber & Leather Products	\$62,909,251	\$26,426,518	\$15,448,758	301
Lumber Products & Furniture	\$28,622,822	\$9,205,214	\$6,562,783	126
Stone, Clay, & Glass Products	\$60,582,741	\$30,853,589	\$16,136,512	253
Primary Metal	\$92,255,250	\$27,731,072	\$20,641,745	313
Fabricated Metal Products	\$162,661,207	\$60,593,701	\$39,119,282	693
Machinery, Except Electrical	\$169,232,322	\$71,703,297	\$51,225,234	548
Electric & Electronic Equipment	\$69,358,482	\$38,268,196	\$22,878,106	181
Motor Vehicles & Equipment	\$33,157,655	\$7,885,735	\$5,123,070	66
Transp. Equip., Exc. Motor Vehicles	\$17,609,080	\$7,394,094	\$4,831,450	42
Instruments & Related Products	\$14,659,955	\$6,331,864	\$4,812,945	48
Miscellaneous Manufacturing	\$28,302,007	\$10,513,763	\$7,251,597	108
Transportation	\$362,434,748	\$237,102,435	\$156,811,061	2,229
Communication	\$255,484,172	\$157,807,903	\$67,373,268	608
Electric, Gas, Water, Sanitary Services	\$797,892,640	\$178,523,364	\$77,903,025	337
Wholesale Trade	\$492,760,573	\$332,995,840	\$192,008,291	2,186
Retail Trade	\$1,106,080,258	\$917,430,817	\$548,594,273	14,751
Finance	\$245,788,985	\$136,655,918	\$79,574,946	729
Insurance	\$241,428,632	\$145,204,251	\$86,808,851	1,060
Real Estate	\$2,403,634,299	\$652,212,793	\$105,085,536	934
Hotels, Lodging Places, Amusements	\$117,943,943	\$61,669,641	\$40,457,277	1,006
Personal Services	\$234,016,667	\$144,523,439	\$112,441,689	1,940
Business Services	\$551,813,796	\$323,566,642	\$263,947,471	3,295
Eating & Drinking Places	\$593,749,073	\$348,319,314	\$185,324,363	8,583
Health Services	\$386,080,215	\$269,771,421	\$228,094,100	3,867
Miscellaneous Services	\$361,059,330	\$148,904,226	\$129,087,376	3,168
Households	\$18,047,263	\$18,047,263	\$17,665,307	1,247
<b>Total</b>	<b>\$24,837,906,993</b>	<b>\$8,252,509,618</b>	<b>\$4,497,479,243</b>	<b>65,196</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Annual Impact of Exploration, Drilling, and Operations in the  
Barnett Shale on Business Activity in the Barnett Shale Region 2010  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$166,056,581	\$46,234,294	\$31,488,153	512
Forestry & Fishery Products	\$2,001,995	\$2,464,901	\$914,261	11
Coal Mining	\$8,696,786	\$2,530,050	\$2,665,986	16
Crude Petroleum & Natural Gas	\$13,926,729,773	\$3,052,245,862	\$1,407,692,088	7,077
Miscellaneous Mining	\$8,947,345	\$3,809,185	\$2,239,187	25
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$980,524,341	\$529,764,468	\$436,558,941	6,308
Food Products & Tobacco	\$201,181,915	\$51,762,198	\$26,442,547	449
Textile Mill Products	\$582,808	\$198,817	\$168,207	4
Apparel	\$56,797,342	\$31,208,157	\$15,813,674	435
Paper & Allied Products	\$32,262,582	\$14,839,672	\$6,708,852	103
Printing & Publishing	\$77,141,249	\$38,794,467	\$25,321,924	434
Chemicals & Petroleum Refining	\$239,851,124	\$42,264,636	\$19,845,683	145
Rubber & Leather Products	\$46,493,928	\$19,514,108	\$11,407,863	224
Lumber Products & Furniture	\$25,366,517	\$8,133,253	\$5,798,617	112
Stone, Clay, & Glass Products	\$58,425,840	\$29,698,657	\$15,532,498	245
Primary Metal	\$42,232,381	\$12,704,194	\$9,456,383	140
Fabricated Metal Products	\$172,792,719	\$64,406,608	\$41,580,992	721
Machinery, Except Electrical	\$112,505,558	\$47,694,135	\$34,072,889	360
Electric & Electronic Equipment	\$50,156,346	\$27,705,102	\$16,562,936	131
Motor Vehicles & Equipment	\$28,660,192	\$6,829,907	\$4,437,089	56
Transp. Equip., Exc. Motor Vehicles	\$12,022,668	\$5,045,189	\$3,296,797	31
Instruments & Related Products	\$5,371,253	\$2,322,615	\$1,765,390	17
Miscellaneous Manufacturing	\$18,423,532	\$6,830,133	\$4,710,873	68
Transportation	\$362,113,289	\$236,513,302	\$156,421,407	2,216
Communication	\$161,545,514	\$99,922,751	\$42,660,192	380
Electric, Gas, Water, Sanitary Services	\$549,580,974	\$122,990,765	\$53,669,921	224
Wholesale Trade	\$357,244,075	\$241,406,046	\$139,196,879	1,604
Retail Trade	\$1,146,569,749	\$951,102,716	\$568,729,049	15,283
Finance	\$224,739,546	\$125,158,757	\$72,880,299	654
Insurance	\$133,696,454	\$80,424,162	\$48,080,822	581
Real Estate	\$1,895,145,669	\$491,967,684	\$79,266,728	712
Hotels, Lodging Places, Amusements	\$106,973,006	\$55,987,195	\$36,729,552	915
Personal Services	\$238,396,910	\$147,145,990	\$114,481,840	1,975
Business Services	\$390,543,099	\$226,624,451	\$184,867,505	2,304
Eating & Drinking Places	\$626,000,038	\$367,290,653	\$195,418,290	9,055
Health Services	\$345,959,892	\$241,975,491	\$204,592,562	3,459
Miscellaneous Services	\$382,910,756	\$158,314,897	\$137,245,698	3,368
Households	\$15,242,505	\$15,242,505	\$14,919,944	1,057
<b>Total</b>	<b>\$23,209,886,253</b>	<b>\$7,609,067,973</b>	<b>\$4,173,642,519</b>	<b>61,409</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group





**The Annual Impact of Exploration, Drilling, and Operations in the  
Barnett Shale on Business Activity in Texas 2010  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$217,405,168	\$60,450,532	\$41,170,195	674
Forestry & Fishery Products	\$4,559,749	\$5,557,738	\$2,061,274	27
Coal Mining	\$30,078,056	\$8,746,271	\$9,216,466	53
Crude Petroleum & Natural Gas	\$14,875,713,076	\$3,260,229,387	\$1,503,613,837	7,560
Miscellaneous Mining	\$12,433,017	\$5,294,081	\$3,112,018	33
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$1,048,157,439	\$565,908,102	\$466,343,346	6,738
Food Products & Tobacco	\$526,132,462	\$135,367,073	\$69,152,072	1,175
Textile Mill Products	\$6,099,418	\$2,048,636	\$1,733,155	33
Apparel	\$105,848,080	\$58,172,594	\$29,476,909	815
Paper & Allied Products	\$70,003,670	\$32,154,735	\$14,536,912	220
Printing & Publishing	\$111,743,193	\$56,211,411	\$36,690,406	641
Chemicals & Petroleum Refining	\$654,165,235	\$114,884,314	\$53,944,774	407
Rubber & Leather Products	\$69,748,943	\$29,299,693	\$17,128,396	334
Lumber Products & Furniture	\$31,734,785	\$10,206,034	\$7,276,309	140
Stone, Clay, & Glass Products	\$67,169,487	\$34,208,089	\$17,890,924	280
Primary Metal	\$102,285,531	\$30,746,081	\$22,885,980	347
Fabricated Metal Products	\$180,346,246	\$67,181,639	\$43,372,454	768
Machinery, Except Electrical	\$187,631,794	\$79,499,105	\$56,794,603	608
Electric & Electronic Equipment	\$76,899,354	\$42,428,834	\$25,365,486	200
Motor Vehicles & Equipment	\$36,762,660	\$8,743,097	\$5,680,066	73
Transp. Equip., Exc. Motor Vehicles	\$19,523,595	\$8,198,003	\$5,356,740	47
Instruments & Related Products	\$16,253,831	\$7,020,284	\$5,336,224	53
Miscellaneous Manufacturing	\$31,379,091	\$11,656,852	\$8,040,014	120
Transportation	\$401,839,796	\$262,880,959	\$173,860,054	2,471
Communication	\$283,261,216	\$174,965,275	\$74,698,302	674
Electric, Gas, Water, Sanitary Services	\$884,642,041	\$197,932,986	\$86,372,888	374
Wholesale Trade	\$546,335,055	\$369,200,197	\$212,884,037	2,424
Retail Trade	\$1,226,336,789	\$1,017,176,786	\$608,239,171	16,355
Finance	\$272,511,938	\$151,513,580	\$88,226,585	808
Insurance	\$267,677,513	\$160,991,315	\$96,246,983	1,175
Real Estate	\$2,664,964,993	\$723,123,423	\$116,510,766	1,035
Hotels, Lodging Places, Amusements	\$130,767,180	\$68,374,559	\$44,855,920	1,115
Personal Services	\$259,459,697	\$160,236,483	\$124,666,703	2,150
Business Services	\$611,808,731	\$358,745,826	\$292,644,672	3,653
Eating & Drinking Places	\$658,303,342	\$386,189,687	\$205,473,412	9,516
Health Services	\$428,056,072	\$299,101,819	\$252,893,209	4,287
Miscellaneous Services	\$400,314,838	\$165,093,562	\$143,122,162	3,513
Households	\$20,009,419	\$20,009,419	\$19,585,935	1,382
<b>Total</b>	<b>\$27,538,362,499</b>	<b>\$9,149,748,465</b>	<b>\$4,986,459,356</b>	<b>72,285</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Annual Impact of Exploration, Drilling, and Operations in the  
Barnett Shale on Business Activity in the Barnett Shale Region 2011  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$175,083,678	\$48,747,663	\$33,199,898	539
Forestry & Fishery Products	\$2,110,827	\$2,598,897	\$963,961	11
Coal Mining	\$9,169,557	\$2,667,588	\$2,810,913	17
Crude Petroleum & Natural Gas	\$14,683,808,743	\$3,218,170,755	\$1,484,216,447	7,462
Miscellaneous Mining	\$9,433,737	\$4,016,258	\$2,360,913	26
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$1,033,827,189	\$558,563,299	\$460,290,972	6,651
Food Products & Tobacco	\$212,118,481	\$54,576,073	\$27,880,005	474
Textile Mill Products	\$614,490	\$209,625	\$177,351	4
Apparel	\$59,884,935	\$32,904,682	\$16,673,330	458
Paper & Allied Products	\$34,016,427	\$15,646,380	\$7,073,556	108
Printing & Publishing	\$81,334,769	\$40,903,396	\$26,698,463	458
Chemicals & Petroleum Refining	\$252,889,809	\$44,562,208	\$20,924,525	153
Rubber & Leather Products	\$49,021,412	\$20,574,926	\$12,028,013	236
Lumber Products & Furniture	\$26,745,481	\$8,575,389	\$6,113,839	118
Stone, Clay, & Glass Products	\$61,601,960	\$31,313,123	\$16,376,869	258
Primary Metal	\$44,528,199	\$13,394,814	\$9,970,447	148
Fabricated Metal Products	\$182,186,004	\$67,907,853	\$43,841,400	760
Machinery, Except Electrical	\$118,621,537	\$50,286,864	\$35,925,145	380
Electric & Electronic Equipment	\$52,882,924	\$29,211,195	\$17,463,324	138
Motor Vehicles & Equipment	\$30,218,205	\$7,201,192	\$4,678,296	59
Transp. Equip., Exc. Motor Vehicles	\$12,676,239	\$5,319,454	\$3,476,016	33
Instruments & Related Products	\$5,663,243	\$2,448,876	\$1,861,359	18
Miscellaneous Manufacturing	\$19,425,065	\$7,201,430	\$4,966,963	72
Transportation	\$381,798,338	\$249,370,538	\$164,924,721	2,337
Communication	\$170,327,382	\$105,354,709	\$44,979,268	401
Electric, Gas, Water, Sanitary Services	\$579,457,061	\$129,676,737	\$56,587,502	236
Wholesale Trade	\$376,664,425	\$254,529,259	\$146,763,841	1,691
Retail Trade	\$1,208,899,087	\$1,002,806,158	\$599,646,056	16,114
Finance	\$236,956,741	\$131,962,584	\$76,842,187	689
Insurance	\$140,964,404	\$84,796,147	\$50,694,572	612
Real Estate	\$1,998,168,773	\$518,711,822	\$83,575,792	750
Hotels, Lodging Places, Amusements	\$112,788,227	\$59,030,747	\$38,726,229	964
Personal Services	\$251,356,542	\$155,145,078	\$120,705,253	2,082
Business Services	\$411,773,637	\$238,944,113	\$194,917,194	2,429
Eating & Drinking Places	\$660,030,386	\$387,257,151	\$206,041,536	9,548
Health Services	\$364,766,817	\$255,129,659	\$215,714,536	3,647
Miscellaneous Services	\$403,726,387	\$166,921,145	\$144,706,590	3,551
Households	\$16,071,112	\$16,071,112	\$15,731,016	1,115
<b>Total</b>	<b>\$24,471,612,233</b>	<b>\$8,022,708,895</b>	<b>\$4,400,528,301</b>	<b>64,747</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Annual Impact of Exploration, Drilling, and Operations in the  
Barnett Shale on Business Activity in Texas 2011  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$229,223,655	\$63,736,719	\$43,408,272	711
Forestry & Fishery Products	\$4,807,625	\$5,859,865	\$2,173,328	28
Coal Mining	\$31,713,147	\$9,221,732	\$9,717,487	56
Crude Petroleum & Natural Gas	\$15,684,380,273	\$3,437,460,593	\$1,585,352,654	7,971
Miscellaneous Mining	\$13,108,896	\$5,581,875	\$3,281,192	35
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$1,105,136,928	\$596,671,758	\$491,694,505	7,105
Food Products & Tobacco	\$554,733,851	\$142,725,841	\$72,911,288	1,239
Textile Mill Products	\$6,430,992	\$2,160,003	\$1,827,372	35
Apparel	\$111,602,149	\$61,334,948	\$31,079,320	859
Paper & Allied Products	\$73,809,180	\$33,902,717	\$15,327,161	232
Printing & Publishing	\$117,817,729	\$59,267,152	\$38,684,954	676
Chemicals & Petroleum Refining	\$689,726,688	\$121,129,606	\$56,877,297	430
Rubber & Leather Products	\$73,540,605	\$30,892,470	\$18,059,523	352
Lumber Products & Furniture	\$33,459,938	\$10,760,851	\$7,671,861	148
Stone, Clay, & Glass Products	\$70,820,926	\$36,067,694	\$18,863,503	296
Primary Metal	\$107,845,934	\$32,417,487	\$24,130,098	366
Fabricated Metal Products	\$190,150,152	\$70,833,738	\$45,730,249	810
Machinery, Except Electrical	\$197,831,754	\$83,820,802	\$59,882,047	641
Electric & Electronic Equipment	\$81,079,725	\$44,735,333	\$26,744,393	211
Motor Vehicles & Equipment	\$38,761,136	\$9,218,385	\$5,988,843	77
Transp. Equip., Exc. Motor Vehicles	\$20,584,928	\$8,643,659	\$5,647,941	49
Instruments & Related Products	\$17,137,415	\$7,401,918	\$5,626,309	56
Miscellaneous Manufacturing	\$33,084,908	\$12,290,537	\$8,477,081	127
Transportation	\$423,684,441	\$277,171,582	\$183,311,361	2,605
Communication	\$298,659,742	\$184,476,663	\$78,759,019	711
Electric, Gas, Water, Sanitary Services	\$932,732,576	\$208,692,935	\$91,068,254	394
Wholesale Trade	\$576,034,689	\$389,270,502	\$224,456,749	2,556
Retail Trade	\$1,293,002,388	\$1,072,472,119	\$641,304,011	17,244
Finance	\$287,326,117	\$159,750,097	\$93,022,721	852
Insurance	\$282,228,884	\$169,743,056	\$101,479,120	1,239
Real Estate	\$2,809,836,688	\$762,433,551	\$122,844,475	1,091
Hotels, Lodging Places, Amusements	\$137,875,889	\$72,091,508	\$47,294,358	1,176
Personal Services	\$273,564,335	\$168,947,191	\$131,443,782	2,267
Business Services	\$645,067,617	\$378,247,815	\$308,553,297	3,852
Eating & Drinking Places	\$694,089,749	\$407,183,567	\$216,643,270	10,034
Health Services	\$451,325,874	\$315,361,465	\$266,640,882	4,520
Miscellaneous Services	\$422,076,583	\$174,068,309	\$150,902,508	3,704
Households	\$21,097,162	\$21,097,162	\$20,650,657	1,458
<b>Total</b>	<b>\$29,035,391,267</b>	<b>\$9,647,143,206</b>	<b>\$5,257,531,143</b>	<b>76,214</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



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## The Impact of Royalty and Lease Payments Associated with Barnett Shale Activity



**The Impact of Royalty and Lease Payments Associated with Activity in  
the Barnett Shale on Business Activity in the Barnett Shale Region 2001  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$2,813,975	\$765,161	\$521,113	3
Forestry & Fishery Products	\$33,175	\$34,777	\$12,908	0
Coal Mining	\$121,511	\$35,048	\$36,879	0
Crude Petroleum & Natural Gas	\$1,272,095	\$277,878	\$128,106	0
Miscellaneous Mining	\$39,396	\$16,860	\$9,954	0
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$4,356,566	\$2,232,552	\$1,839,733	13
Food Products & Tobacco	\$2,818,617	\$725,017	\$370,344	2
Textile Mill Products	\$9,285	\$2,012	\$1,683	0
Apparel	\$846,234	\$468,072	\$237,063	0
Paper & Allied Products	\$666,958	\$295,140	\$133,433	0
Printing & Publishing	\$1,185,520	\$600,277	\$391,794	0
Chemicals & Petroleum Refining	\$2,636,782	\$399,346	\$187,455	0
Rubber & Leather Products	\$619,397	\$266,415	\$155,732	0
Lumber Products & Furniture	\$299,045	\$104,789	\$74,732	0
Stone, Clay, & Glass Products	\$425,760	\$236,049	\$123,352	0
Primary Metal	\$128,182	\$35,444	\$26,351	0
Fabricated Metal Products	\$889,578	\$319,454	\$206,297	0
Machinery, Except Electrical	\$357,561	\$143,350	\$102,378	0
Electric & Electronic Equipment	\$384,015	\$202,237	\$120,928	0
Motor Vehicles & Equipment	\$391,138	\$88,014	\$57,171	0
Transp. Equip., Exc. Motor Vehicles	\$131,956	\$56,497	\$36,781	0
Instruments & Related Products	\$67,723	\$27,768	\$21,140	0
Miscellaneous Manufacturing	\$246,967	\$97,388	\$67,224	0
Transportation	\$4,841,404	\$3,332,898	\$2,204,266	13
Communication	\$4,207,322	\$2,605,417	\$1,112,394	5
Electric, Gas, Water, Sanitary Services	\$10,592,815	\$2,377,383	\$1,037,424	0
Wholesale Trade	\$4,159,857	\$2,815,002	\$1,623,101	7
Retail Trade	\$35,335,500	\$29,280,203	\$17,508,761	456
Finance	\$1,964,008	\$1,037,220	\$603,995	0
Insurance	\$1,764,724	\$1,056,218	\$631,417	0
Real Estate	\$29,015,613	\$2,362,325	\$380,634	0
Hotels, Lodging Places, Amusements	\$2,604,336	\$1,374,147	\$901,459	15
Personal Services	\$7,799,252	\$4,851,559	\$3,774,632	51
Business Services	\$5,164,127	\$2,922,504	\$2,384,056	12
Eating & Drinking Places	\$15,336,930	\$8,981,815	\$4,778,891	215
Health Services	\$9,218,268	\$6,540,061	\$5,529,759	83
Miscellaneous Services	\$6,933,653	\$2,710,043	\$2,349,318	39
Households	\$162,034	\$162,034	\$158,615	1
<b>Total</b>	<b>\$159,841,279</b>	<b>\$79,838,374</b>	<b>\$49,841,273</b>	<b>915</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Royalty and Lease Payments Associated with Activity in  
the Barnett Shale on Business Activity in Texas 2001  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$4,205,188	\$1,143,478	\$778,645	6
Forestry & Fishery Products	\$106,149	\$111,339	\$41,195	0
Coal Mining	\$568,455	\$164,455	\$172,969	0
Crude Petroleum & Natural Gas	\$3,042,491	\$664,387	\$306,528	0
Miscellaneous Mining	\$73,307	\$31,302	\$18,489	0
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$5,498,201	\$2,817,623	\$2,321,826	18
Food Products & Tobacco	\$8,598,510	\$2,211,704	\$1,129,855	5
Textile Mill Products	\$113,204	\$25,625	\$21,895	0
Apparel	\$1,567,590	\$866,874	\$439,113	0
Paper & Allied Products	\$1,356,102	\$600,081	\$271,253	0
Printing & Publishing	\$1,908,825	\$966,617	\$630,734	0
Chemicals & Petroleum Refining	\$7,132,610	\$1,079,983	\$507,231	0
Rubber & Leather Products	\$1,036,032	\$445,763	\$260,468	0
Lumber Products & Furniture	\$428,328	\$150,020	\$107,204	0
Stone, Clay, & Glass Products	\$556,291	\$308,636	\$161,211	0
Primary Metal	\$448,114	\$123,990	\$92,202	0
Fabricated Metal Products	\$1,133,018	\$406,920	\$262,657	0
Machinery, Except Electrical	\$700,392	\$280,497	\$200,459	0
Electric & Electronic Equipment	\$678,902	\$357,616	\$213,596	0
Motor Vehicles & Equipment	\$546,560	\$123,017	\$79,876	0
Transp. Equip., Exc. Motor Vehicles	\$237,600	\$101,365	\$66,252	0
Instruments & Related Products	\$191,134	\$78,335	\$59,522	0
Miscellaneous Manufacturing	\$438,221	\$172,969	\$119,367	0
Transportation	\$6,432,786	\$4,422,028	\$2,924,583	18
Communication	\$6,708,337	\$4,145,099	\$1,769,671	6
Electric, Gas, Water, Sanitary Services	\$16,338,418	\$3,667,548	\$1,600,351	0
Wholesale Trade	\$6,905,147	\$4,672,765	\$2,694,363	11
Retail Trade	\$42,774,090	\$35,443,940	\$21,194,370	548
Finance	\$2,909,662	\$1,536,613	\$894,769	0
Insurance	\$3,996,944	\$2,392,377	\$1,430,058	0
Real Estate	\$39,896,783	\$3,918,771	\$631,382	0
Hotels, Lodging Places, Amusements	\$3,394,593	\$1,787,836	\$1,172,834	17
Personal Services	\$9,463,113	\$5,885,983	\$4,579,347	69
Business Services	\$8,924,906	\$5,253,627	\$4,285,713	23
Eating & Drinking Places	\$18,558,799	\$10,868,762	\$5,782,752	258
Health Services	\$11,849,976	\$8,398,781	\$7,101,471	106
Miscellaneous Services	\$8,474,196	\$3,315,771	\$2,874,550	52
Households	\$269,955	\$269,955	\$264,198	6
<b>Total</b>	<b>\$227,462,930</b>	<b>\$109,212,450</b>	<b>\$67,462,958</b>	<b>1,141</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Royalty and Lease Payments Associated with Activity in  
the Barnett Shale on Business Activity in the Barnett Shale Region 2002  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$3,383,198	\$919,941	\$626,525	4
Forestry & Fishery Products	\$39,886	\$41,812	\$15,519	0
Coal Mining	\$146,090	\$42,138	\$44,340	0
Crude Petroleum & Natural Gas	\$1,529,420	\$334,088	\$154,020	0
Miscellaneous Mining	\$47,365	\$20,271	\$11,968	0
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$5,237,830	\$2,684,162	\$2,211,881	15
Food Products & Tobacco	\$3,388,778	\$871,676	\$445,258	2
Textile Mill Products	\$11,163	\$2,419	\$2,023	0
Apparel	\$1,017,414	\$562,756	\$285,017	0
Paper & Allied Products	\$801,873	\$354,842	\$160,425	0
Printing & Publishing	\$1,425,332	\$721,703	\$471,048	0
Chemicals & Petroleum Refining	\$3,170,161	\$480,127	\$225,374	0
Rubber & Leather Products	\$744,692	\$320,307	\$187,234	0
Lumber Products & Furniture	\$359,537	\$125,986	\$89,849	0
Stone, Clay, & Glass Products	\$511,885	\$283,798	\$148,304	0
Primary Metal	\$154,111	\$42,614	\$31,681	0
Fabricated Metal Products	\$1,069,525	\$384,075	\$248,027	0
Machinery, Except Electrical	\$429,890	\$172,347	\$123,088	0
Electric & Electronic Equipment	\$461,695	\$243,146	\$145,390	0
Motor Vehicles & Equipment	\$470,259	\$105,818	\$68,736	0
Transp. Equip., Exc. Motor Vehicles	\$158,649	\$67,925	\$44,222	0
Instruments & Related Products	\$81,422	\$33,385	\$25,416	0
Miscellaneous Manufacturing	\$296,924	\$117,088	\$80,822	0
Transportation	\$5,820,743	\$4,007,090	\$2,650,154	16
Communication	\$5,058,396	\$3,132,451	\$1,337,414	6
Electric, Gas, Water, Sanitary Services	\$12,735,573	\$2,858,289	\$1,247,279	0
Wholesale Trade	\$5,001,330	\$3,384,432	\$1,951,429	8
Retail Trade	\$42,483,308	\$35,203,121	\$21,050,504	548
Finance	\$2,361,295	\$1,247,033	\$726,173	0
Insurance	\$2,121,699	\$1,269,874	\$759,142	0
Real Estate	\$34,885,009	\$2,840,185	\$457,630	0
Hotels, Lodging Places, Amusements	\$3,131,151	\$1,652,116	\$1,083,810	18
Personal Services	\$9,376,916	\$5,832,952	\$4,538,179	61
Business Services	\$6,208,747	\$3,513,680	\$2,866,312	15
Eating & Drinking Places	\$18,439,346	\$10,798,693	\$5,745,585	259
Health Services	\$11,082,977	\$7,863,011	\$6,648,341	100
Miscellaneous Services	\$8,336,220	\$3,258,241	\$2,824,547	47
Households	\$194,811	\$194,811	\$190,701	1
<b>Total</b>	<b>\$192,174,621</b>	<b>\$95,988,403</b>	<b>\$59,923,368</b>	<b>1,100</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Royalty and Lease Payments Associated with Activity in  
the Barnett Shale on Business Activity in Texas 2002  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$5,055,831	\$1,374,786	\$936,153	7
Forestry & Fishery Products	\$127,622	\$133,862	\$49,528	0
Coal Mining	\$683,444	\$197,721	\$207,958	0
Crude Petroleum & Natural Gas	\$3,657,939	\$798,782	\$368,533	0
Miscellaneous Mining	\$88,136	\$37,633	\$22,229	0
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$6,610,399	\$3,387,583	\$2,791,495	21
Food Products & Tobacco	\$10,337,852	\$2,659,096	\$1,358,407	6
Textile Mill Products	\$136,104	\$30,809	\$26,324	0
Apparel	\$1,884,688	\$1,042,228	\$527,939	0
Paper & Allied Products	\$1,630,419	\$721,468	\$326,123	0
Printing & Publishing	\$2,294,950	\$1,162,148	\$758,321	0
Chemicals & Petroleum Refining	\$8,575,423	\$1,298,447	\$609,835	0
Rubber & Leather Products	\$1,245,604	\$535,933	\$313,156	0
Lumber Products & Furniture	\$514,972	\$180,367	\$128,889	0
Stone, Clay, & Glass Products	\$668,820	\$371,068	\$193,821	0
Primary Metal	\$538,761	\$149,071	\$110,853	0
Fabricated Metal Products	\$1,362,209	\$489,233	\$315,788	0
Machinery, Except Electrical	\$842,070	\$337,237	\$241,009	0
Electric & Electronic Equipment	\$816,233	\$429,956	\$256,803	0
Motor Vehicles & Equipment	\$657,121	\$147,901	\$96,033	0
Transp. Equip., Exc. Motor Vehicles	\$285,662	\$121,870	\$79,654	0
Instruments & Related Products	\$229,797	\$94,181	\$71,562	0
Miscellaneous Manufacturing	\$526,866	\$207,958	\$143,514	0
Transportation	\$7,734,036	\$5,316,534	\$3,516,180	22
Communication	\$8,065,326	\$4,983,587	\$2,127,647	7
Electric, Gas, Water, Sanitary Services	\$19,643,420	\$4,409,435	\$1,924,076	0
Wholesale Trade	\$8,301,948	\$5,617,991	\$3,239,390	13
Retail Trade	\$51,426,606	\$42,613,683	\$25,481,653	659
Finance	\$3,498,241	\$1,847,445	\$1,075,767	0
Insurance	\$4,805,462	\$2,876,316	\$1,719,335	0
Real Estate	\$47,967,266	\$4,711,476	\$759,101	0
Hotels, Lodging Places, Amusements	\$4,081,265	\$2,149,486	\$1,410,079	21
Personal Services	\$11,377,350	\$7,076,623	\$5,505,676	83
Business Services	\$10,730,272	\$6,316,352	\$5,152,644	27
Eating & Drinking Places	\$22,312,948	\$13,067,340	\$6,952,511	310
Health Services	\$14,247,037	\$10,097,720	\$8,537,985	127
Miscellaneous Services	\$10,188,391	\$3,986,499	\$3,456,025	62
Households	\$324,563	\$324,563	\$317,641	7
<b>Total</b>	<b>\$273,475,053</b>	<b>\$131,304,388</b>	<b>\$81,109,639</b>	<b>1,372</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group





**The Impact of Royalty and Lease Payments Associated with Activity in  
the Barnett Shale on Business Activity in the Barnett Shale Region 2003  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$7,705,036	\$2,095,113	\$1,426,875	9
Forestry & Fishery Products	\$90,837	\$95,224	\$35,343	0
Coal Mining	\$332,712	\$95,967	\$100,981	0
Crude Petroleum & Natural Gas	\$3,483,165	\$760,867	\$350,771	0
Miscellaneous Mining	\$107,871	\$46,166	\$27,257	0
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$11,928,854	\$6,113,023	\$5,037,431	34
Food Products & Tobacco	\$7,717,746	\$1,985,193	\$1,014,050	6
Textile Mill Products	\$25,422	\$5,508	\$4,608	0
Apparel	\$2,317,101	\$1,281,644	\$649,109	0
Paper & Allied Products	\$1,826,220	\$808,132	\$365,358	0
Printing & Publishing	\$3,246,111	\$1,643,637	\$1,072,783	0
Chemicals & Petroleum Refining	\$7,219,859	\$1,093,462	\$513,275	0
Rubber & Leather Products	\$1,695,992	\$729,480	\$426,415	0
Lumber Products & Furniture	\$818,826	\$286,925	\$204,626	0
Stone, Clay, & Glass Products	\$1,165,788	\$646,334	\$337,755	0
Primary Metal	\$350,978	\$97,051	\$72,152	0
Fabricated Metal Products	\$2,435,782	\$874,709	\$564,867	0
Machinery, Except Electrical	\$979,050	\$392,511	\$280,325	0
Electric & Electronic Equipment	\$1,051,483	\$553,751	\$331,117	0
Motor Vehicles & Equipment	\$1,070,987	\$240,993	\$156,543	0
Transp. Equip., Exc. Motor Vehicles	\$361,314	\$154,695	\$100,712	0
Instruments & Related Products	\$185,434	\$76,031	\$57,884	0
Miscellaneous Manufacturing	\$676,227	\$266,662	\$184,067	0
Transportation	\$13,256,404	\$9,125,915	\$6,035,572	36
Communication	\$11,520,204	\$7,133,976	\$3,045,882	13
Electric, Gas, Water, Sanitary Services	\$29,004,528	\$6,509,588	\$2,840,605	0
Wholesale Trade	\$11,390,238	\$7,707,848	\$4,444,266	19
Retail Trade	\$96,753,269	\$80,173,065	\$47,941,302	1,248
Finance	\$5,377,713	\$2,840,046	\$1,653,818	0
Insurance	\$4,832,047	\$2,892,065	\$1,728,903	0
Real Estate	\$79,448,584	\$6,468,357	\$1,042,226	0
Hotels, Lodging Places, Amusements	\$7,131,016	\$3,762,597	\$2,468,315	40
Personal Services	\$21,355,382	\$13,284,209	\$10,335,440	139
Business Services	\$14,140,061	\$8,002,203	\$6,527,860	34
Eating & Drinking Places	\$41,994,540	\$24,593,395	\$13,085,235	590
Health Services	\$25,240,836	\$17,907,551	\$15,141,210	227
Miscellaneous Services	\$18,985,258	\$7,420,456	\$6,432,742	107
Households	\$443,670	\$443,670	\$434,310	2
<b>Total</b>	<b>\$437,666,546</b>	<b>\$218,608,018</b>	<b>\$136,471,992</b>	<b>2,504</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group

**The Impact of Royalty and Lease Payments Associated with Activity in  
the Barnett Shale on Business Activity in Texas 2003  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$11,514,362	\$3,130,995	\$2,132,034	16
Forestry & Fishery Products	\$290,651	\$304,862	\$112,797	0
Coal Mining	\$1,556,505	\$450,298	\$473,613	0
Crude Petroleum & Natural Gas	\$8,330,743	\$1,819,179	\$839,314	0
Miscellaneous Mining	\$200,725	\$85,708	\$50,625	0
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$15,054,800	\$7,715,024	\$6,357,468	49
Food Products & Tobacco	\$23,543,858	\$6,055,937	\$3,093,692	14
Textile Mill Products	\$309,969	\$70,165	\$59,951	0
Apparel	\$4,292,268	\$2,373,614	\$1,202,350	0
Paper & Allied Products	\$3,713,186	\$1,643,101	\$742,726	0
Printing & Publishing	\$5,226,615	\$2,646,724	\$1,727,032	0
Chemicals & Petroleum Refining	\$19,530,029	\$2,957,137	\$1,388,864	0
Rubber & Leather Products	\$2,836,791	\$1,220,557	\$713,195	0
Lumber Products & Furniture	\$1,172,819	\$410,775	\$293,538	0
Stone, Clay, & Glass Products	\$1,523,199	\$845,087	\$441,417	0
Primary Metal	\$1,226,997	\$339,500	\$252,460	0
Fabricated Metal Products	\$3,102,352	\$1,114,200	\$719,190	0
Machinery, Except Electrical	\$1,917,765	\$768,039	\$548,884	0
Electric & Electronic Equipment	\$1,858,924	\$979,199	\$584,855	0
Motor Vehicles & Equipment	\$1,496,554	\$336,836	\$218,710	0
Transp. Equip., Exc. Motor Vehicles	\$650,579	\$277,551	\$181,407	0
Instruments & Related Products	\$523,350	\$214,491	\$162,978	0
Miscellaneous Manufacturing	\$1,199,908	\$473,613	\$326,844	0
Transportation	\$17,613,818	\$12,108,098	\$8,007,896	50
Communication	\$18,368,312	\$11,349,830	\$4,845,593	16
Electric, Gas, Water, Sanitary Services	\$44,736,749	\$10,042,232	\$4,381,972	0
Wholesale Trade	\$18,907,205	\$12,794,648	\$7,377,522	30
Retail Trade	\$117,121,111	\$97,050,191	\$58,032,987	1,501
Finance	\$7,967,040	\$4,207,448	\$2,449,996	0
Insurance	\$10,944,161	\$6,550,643	\$3,915,687	0
Real Estate	\$109,242,664	\$10,730,114	\$1,728,808	0
Hotels, Lodging Places, Amusements	\$9,294,843	\$4,895,330	\$3,211,374	47
Personal Services	\$25,911,255	\$16,116,598	\$12,538,857	189
Business Services	\$24,437,571	\$14,385,125	\$11,734,848	62
Eating & Drinking Places	\$50,816,444	\$29,760,107	\$15,833,940	705
Health Services	\$32,446,799	\$22,996,972	\$19,444,765	289
Miscellaneous Services	\$23,203,469	\$9,079,020	\$7,870,897	142
Households	\$739,173	\$739,173	\$723,408	15
<b>Total</b>	<b>\$622,823,562</b>	<b>\$299,038,122</b>	<b>\$184,722,495</b>	<b>3,124</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Royalty and Lease Payments Associated with Activity in  
the Barnett Shale on Business Activity in the Barnett Shale Region 2004  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$10,764,486	\$2,927,022	\$1,993,447	13
Forestry & Fishery Products	\$126,906	\$133,035	\$49,376	0
Coal Mining	\$464,823	\$134,073	\$141,077	0
Crude Petroleum & Natural Gas	\$4,866,230	\$1,062,986	\$490,052	0
Miscellaneous Mining	\$150,704	\$64,497	\$38,079	0
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$16,665,460	\$8,540,329	\$7,037,650	48
Food Products & Tobacco	\$10,782,242	\$2,773,456	\$1,416,700	8
Textile Mill Products	\$35,517	\$7,695	\$6,437	0
Apparel	\$3,237,156	\$1,790,548	\$906,852	0
Paper & Allied Products	\$2,551,360	\$1,129,018	\$510,432	0
Printing & Publishing	\$4,535,049	\$2,296,278	\$1,498,755	0
Chemicals & Petroleum Refining	\$10,086,658	\$1,527,644	\$717,082	0
Rubber & Leather Products	\$2,369,421	\$1,019,135	\$595,732	0
Lumber Products & Furniture	\$1,143,958	\$400,855	\$285,877	0
Stone, Clay, & Glass Products	\$1,628,689	\$902,974	\$471,867	0
Primary Metal	\$490,341	\$135,587	\$100,801	0
Fabricated Metal Products	\$3,402,962	\$1,222,030	\$789,160	0
Machinery, Except Electrical	\$1,367,803	\$548,366	\$391,635	0
Electric & Electronic Equipment	\$1,468,996	\$773,630	\$462,595	0
Motor Vehicles & Equipment	\$1,496,246	\$336,685	\$218,702	0
Transp. Equip., Exc. Motor Vehicles	\$504,781	\$216,120	\$140,702	0
Instruments & Related Products	\$259,064	\$106,221	\$80,869	0
Miscellaneous Manufacturing	\$944,738	\$372,546	\$257,155	0
Transportation	\$18,520,142	\$12,749,554	\$8,432,125	50
Communication	\$16,094,547	\$9,966,674	\$4,255,315	19
Electric, Gas, Water, Sanitary Services	\$40,521,396	\$9,094,360	\$3,968,528	0
Wholesale Trade	\$15,912,976	\$10,768,414	\$6,208,956	26
Retail Trade	\$135,171,223	\$112,007,495	\$66,977,421	1,743
Finance	\$7,513,050	\$3,967,746	\$2,310,501	0
Insurance	\$6,750,714	\$4,040,422	\$2,415,401	0
Real Estate	\$110,995,342	\$9,036,757	\$1,456,064	0
Hotels, Lodging Places, Amusements	\$9,962,538	\$5,256,617	\$3,448,412	56
Personal Services	\$29,834,993	\$18,558,988	\$14,439,348	195
Business Services	\$19,754,674	\$11,179,649	\$9,119,886	48
Eating & Drinking Places	\$58,669,370	\$34,358,729	\$18,281,008	824
Health Services	\$35,263,250	\$25,018,127	\$21,153,352	317
Miscellaneous Services	\$26,523,760	\$10,366,906	\$8,987,000	150
Households	\$619,839	\$619,839	\$606,762	3
<b>Total</b>	<b>\$611,451,405</b>	<b>\$305,411,005</b>	<b>\$190,661,114</b>	<b>3,498</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Royalty and Lease Payments Associated with Activity in  
the Barnett Shale on Business Activity in Texas 2004  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$16,086,385	\$4,374,224	\$2,978,604	22
Forestry & Fishery Products	\$406,060	\$425,914	\$157,585	0
Coal Mining	\$2,174,548	\$629,099	\$661,671	0
Crude Petroleum & Natural Gas	\$11,638,642	\$2,541,523	\$1,172,581	0
Miscellaneous Mining	\$280,427	\$119,740	\$70,727	0
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$21,032,630	\$10,778,440	\$8,881,836	68
Food Products & Tobacco	\$32,892,450	\$8,460,576	\$4,322,109	19
Textile Mill Products	\$433,048	\$98,025	\$83,756	0
Apparel	\$5,996,604	\$3,316,109	\$1,679,769	0
Paper & Allied Products	\$5,187,585	\$2,295,529	\$1,037,641	0
Printing & Publishing	\$7,301,954	\$3,697,663	\$2,412,787	0
Chemicals & Petroleum Refining	\$27,284,844	\$4,131,332	\$1,940,342	0
Rubber & Leather Products	\$3,963,200	\$1,705,206	\$996,384	0
Lumber Products & Furniture	\$1,638,511	\$573,882	\$410,093	0
Stone, Clay, & Glass Products	\$2,128,017	\$1,180,646	\$616,691	0
Primary Metal	\$1,714,202	\$474,306	\$352,705	0
Fabricated Metal Products	\$4,334,207	\$1,556,617	\$1,004,759	0
Machinery, Except Electrical	\$2,679,255	\$1,073,005	\$766,831	0
Electric & Electronic Equipment	\$2,597,050	\$1,368,011	\$817,084	0
Motor Vehicles & Equipment	\$2,090,793	\$470,583	\$305,554	0
Transp. Equip., Exc. Motor Vehicles	\$908,905	\$387,758	\$253,439	0
Instruments & Related Products	\$731,157	\$299,660	\$227,692	0
Miscellaneous Manufacturing	\$1,676,357	\$661,671	\$456,624	0
Transportation	\$24,607,761	\$16,915,878	\$11,187,602	69
Communication	\$25,661,843	\$15,856,522	\$6,769,639	22
Electric, Gas, Water, Sanitary Services	\$62,500,432	\$14,029,715	\$6,121,928	0
Wholesale Trade	\$26,414,715	\$17,875,037	\$10,306,925	43
Retail Trade	\$163,626,552	\$135,586,044	\$81,076,225	2,096
Finance	\$11,130,524	\$5,878,105	\$3,422,820	0
Insurance	\$15,289,775	\$9,151,716	\$5,470,494	0
Real Estate	\$152,619,800	\$14,990,735	\$2,415,269	0
Hotels, Lodging Places, Amusements	\$12,985,560	\$6,839,126	\$4,486,518	66
Personal Services	\$36,199,873	\$22,516,038	\$17,517,679	264
Business Services	\$34,141,031	\$20,097,047	\$16,394,420	87
Eating & Drinking Places	\$70,994,199	\$41,576,994	\$22,121,145	985
Health Services	\$45,330,495	\$32,128,411	\$27,165,725	404
Miscellaneous Services	\$32,416,903	\$12,684,039	\$10,996,205	198
Households	\$1,032,678	\$1,032,678	\$1,010,653	21
<b>Total</b>	<b>\$870,128,973</b>	<b>\$417,777,602</b>	<b>\$258,070,511</b>	<b>4,365</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Royalty and Lease Payments Associated with Activity in  
the Barnett Shale on Business Activity in the Barnett Shale Region 2005  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$19,121,014	\$5,199,285	\$3,540,970	23
Forestry & Fishery Products	\$225,423	\$236,311	\$87,708	0
Coal Mining	\$825,667	\$238,154	\$250,596	0
Crude Petroleum & Natural Gas	\$8,643,910	\$1,888,187	\$870,482	0
Miscellaneous Mining	\$267,697	\$114,566	\$67,640	0
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$29,602,945	\$15,170,232	\$12,501,016	85
Food Products & Tobacco	\$19,152,554	\$4,926,504	\$2,516,492	14
Textile Mill Products	\$63,089	\$13,669	\$11,435	0
Apparel	\$5,750,177	\$3,180,560	\$1,610,846	0
Paper & Allied Products	\$4,531,994	\$2,005,480	\$906,683	0
Printing & Publishing	\$8,055,632	\$4,078,890	\$2,662,247	0
Chemicals & Petroleum Refining	\$17,916,984	\$2,713,562	\$1,273,757	0
Rubber & Leather Products	\$4,208,816	\$1,810,295	\$1,058,201	0
Lumber Products & Furniture	\$2,032,018	\$712,041	\$507,805	0
Stone, Clay, & Glass Products	\$2,893,049	\$1,603,958	\$838,180	0
Primary Metal	\$870,996	\$240,844	\$179,054	0
Fabricated Metal Products	\$6,044,699	\$2,170,699	\$1,401,789	0
Machinery, Except Electrical	\$2,429,636	\$974,065	\$695,663	0
Electric & Electronic Equipment	\$2,609,386	\$1,374,203	\$821,709	0
Motor Vehicles & Equipment	\$2,657,789	\$598,055	\$388,481	0
Transp. Equip., Exc. Motor Vehicles	\$896,646	\$383,895	\$249,929	0
Instruments & Related Products	\$460,177	\$188,682	\$143,647	0
Miscellaneous Manufacturing	\$1,678,143	\$661,755	\$456,786	0
Transportation	\$32,897,428	\$22,647,101	\$14,978,029	89
Communication	\$28,588,830	\$17,703,856	\$7,558,738	33
Electric, Gas, Water, Sanitary Services	\$71,978,373	\$16,154,359	\$7,049,318	0
Wholesale Trade	\$28,266,304	\$19,127,991	\$11,029,002	46
Retail Trade	\$240,105,364	\$198,959,511	\$118,972,350	3,096
Finance	\$13,345,470	\$7,047,929	\$4,104,156	0
Insurance	\$11,991,330	\$7,177,023	\$4,290,489	0
Real Estate	\$197,161,619	\$16,052,040	\$2,586,414	0
Hotels, Lodging Places, Amusements	\$17,696,509	\$9,337,357	\$6,125,433	100
Personal Services	\$52,996,057	\$32,966,429	\$25,648,691	346
Business Services	\$35,090,334	\$19,858,470	\$16,199,702	84
Eating & Drinking Places	\$104,214,715	\$61,031,593	\$32,472,652	1,463
Health Services	\$62,638,298	\$44,439,833	\$37,574,811	563
Miscellaneous Services	\$47,114,296	\$18,414,791	\$15,963,655	266
Households	\$1,101,023	\$1,101,023	\$1,077,795	5
<b>Total</b>	<b>\$1,086,124,393</b>	<b>\$542,503,197</b>	<b>\$338,672,354</b>	<b>6,214</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Royalty and Lease Payments Associated with Activity in  
the Barnett Shale on Business Activity in Texas 2005  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$28,574,332	\$7,769,957	\$5,290,910	39
Forestry & Fishery Products	\$721,287	\$756,553	\$279,919	0
Coal Mining	\$3,862,662	\$1,117,472	\$1,175,329	0
Crude Petroleum & Natural Gas	\$20,673,783	\$4,514,521	\$2,082,862	0
Miscellaneous Mining	\$498,124	\$212,694	\$125,633	0
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$37,360,373	\$19,145,800	\$15,776,853	120
Food Products & Tobacco	\$58,427,034	\$15,028,566	\$7,677,385	34
Textile Mill Products	\$769,226	\$174,123	\$148,776	0
Apparel	\$10,651,800	\$5,890,422	\$2,983,782	0
Paper & Allied Products	\$9,214,736	\$4,077,561	\$1,843,168	0
Printing & Publishing	\$12,970,500	\$6,568,179	\$4,285,847	0
Chemicals & Petroleum Refining	\$48,466,215	\$7,338,507	\$3,446,641	0
Rubber & Leather Products	\$7,039,853	\$3,028,966	\$1,769,882	0
Lumber Products & Furniture	\$2,910,497	\$1,019,390	\$728,451	0
Stone, Clay, & Glass Products	\$3,780,009	\$2,097,189	\$1,095,431	0
Primary Metal	\$3,044,946	\$842,512	\$626,512	0
Fabricated Metal Products	\$7,698,875	\$2,765,027	\$1,784,759	0
Machinery, Except Electrical	\$4,759,174	\$1,905,984	\$1,362,126	0
Electric & Electronic Equipment	\$4,613,154	\$2,430,006	\$1,451,391	0
Motor Vehicles & Equipment	\$3,713,886	\$835,900	\$542,756	0
Transp. Equip., Exc. Motor Vehicles	\$1,614,494	\$688,777	\$450,185	0
Instruments & Related Products	\$1,298,758	\$532,287	\$404,450	0
Miscellaneous Manufacturing	\$2,977,721	\$1,175,329	\$811,104	0
Transportation	\$43,710,898	\$30,047,764	\$19,872,597	123
Communication	\$45,583,269	\$28,166,025	\$12,024,946	39
Electric, Gas, Water, Sanitary Services	\$111,019,850	\$24,921,058	\$10,874,413	0
Wholesale Trade	\$46,920,599	\$31,751,523	\$18,308,247	76
Retail Trade	\$290,650,717	\$240,842,213	\$144,016,131	3,724
Finance	\$19,771,209	\$10,441,310	\$6,079,973	0
Insurance	\$27,159,308	\$16,256,242	\$9,717,267	0
Real Estate	\$271,099,365	\$26,628,123	\$4,290,255	0
Hotels, Lodging Places, Amusements	\$23,066,319	\$12,148,375	\$7,969,427	118
Personal Services	\$64,302,027	\$39,995,358	\$31,116,746	468
Business Services	\$60,644,896	\$35,698,491	\$29,121,496	154
Eating & Drinking Places	\$126,107,375	\$73,853,437	\$39,293,908	1,750
Health Services	\$80,520,799	\$57,069,867	\$48,254,622	718
Miscellaneous Services	\$57,582,318	\$22,530,726	\$19,532,617	352
Households	\$1,834,351	\$1,834,351	\$1,795,229	38
<b>Total</b>	<b>\$1,545,614,737</b>	<b>\$742,100,583</b>	<b>\$458,412,025</b>	<b>7,754</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Royalty and Lease Payments Associated with Activity in  
the Barnett Shale on Business Activity in the Barnett Shale Region 2006  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$23,781,260	\$6,466,475	\$4,403,989	28
Forestry & Fishery Products	\$280,364	\$293,906	\$109,084	0
Coal Mining	\$1,026,901	\$296,198	\$311,672	0
Crude Petroleum & Natural Gas	\$10,750,637	\$2,348,383	\$1,082,639	0
Miscellaneous Mining	\$332,941	\$142,488	\$84,126	0
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$36,817,888	\$18,867,579	\$15,547,811	106
Food Products & Tobacco	\$23,820,487	\$6,127,211	\$3,129,821	17
Textile Mill Products	\$78,465	\$17,001	\$14,221	0
Apparel	\$7,151,633	\$3,955,738	\$2,003,447	0
Paper & Allied Products	\$5,636,549	\$2,494,263	\$1,127,663	0
Printing & Publishing	\$10,018,982	\$5,073,013	\$3,311,100	0
Chemicals & Petroleum Refining	\$22,283,780	\$3,374,922	\$1,584,202	0
Rubber & Leather Products	\$5,234,605	\$2,251,507	\$1,316,110	0
Lumber Products & Furniture	\$2,527,270	\$885,582	\$631,569	0
Stone, Clay, & Glass Products	\$3,598,154	\$1,994,881	\$1,042,465	0
Primary Metal	\$1,083,279	\$299,543	\$222,693	0
Fabricated Metal Products	\$7,517,936	\$2,699,750	\$1,743,439	0
Machinery, Except Electrical	\$3,021,797	\$1,211,468	\$865,212	0
Electric & Electronic Equipment	\$3,245,355	\$1,709,129	\$1,021,979	0
Motor Vehicles & Equipment	\$3,305,555	\$743,816	\$483,164	0
Transp. Equip., Exc. Motor Vehicles	\$1,115,179	\$477,460	\$310,843	0
Instruments & Related Products	\$572,333	\$234,668	\$178,658	0
Miscellaneous Manufacturing	\$2,087,146	\$823,040	\$568,116	0
Transportation	\$40,915,314	\$28,166,739	\$18,628,531	111
Communication	\$35,556,609	\$22,018,707	\$9,400,983	41
Electric, Gas, Water, Sanitary Services	\$89,521,216	\$20,091,561	\$8,767,404	0
Wholesale Trade	\$35,155,476	\$23,789,938	\$13,717,033	57
Retail Trade	\$298,624,759	\$247,450,681	\$147,968,745	3,851
Finance	\$16,598,079	\$8,765,677	\$5,104,436	0
Insurance	\$14,913,902	\$8,926,234	\$5,336,183	0
Real Estate	\$245,214,600	\$19,964,304	\$3,216,785	0
Hotels, Lodging Places, Amusements	\$22,009,570	\$11,613,093	\$7,618,347	125
Personal Services	\$65,912,459	\$41,001,132	\$31,899,888	430
Business Services	\$43,642,683	\$24,698,452	\$20,147,955	105
Eating & Drinking Places	\$129,614,323	\$75,906,446	\$40,387,011	1,820
Health Services	\$77,904,743	\$55,270,879	\$46,732,688	700
Miscellaneous Services	\$58,597,172	\$22,902,914	\$19,854,378	331
Households	\$1,369,369	\$1,369,369	\$1,340,479	6
<b>Total</b>	<b>\$1,350,838,770</b>	<b>\$674,724,145</b>	<b>\$421,214,872</b>	<b>7,729</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Royalty and Lease Payments Associated with Activity in  
the Barnett Shale on Business Activity in Texas 2006  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$35,538,577	\$9,663,680	\$6,580,431	49
Forestry & Fishery Products	\$897,082	\$940,943	\$348,142	0
Coal Mining	\$4,804,085	\$1,389,827	\$1,461,785	0
Crude Petroleum & Natural Gas	\$25,712,476	\$5,614,817	\$2,590,505	0
Miscellaneous Mining	\$619,528	\$264,533	\$156,253	0
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$46,465,985	\$23,812,087	\$19,622,048	150
Food Products & Tobacco	\$72,667,093	\$18,691,385	\$9,548,547	43
Textile Mill Products	\$956,705	\$216,561	\$185,036	0
Apparel	\$13,247,898	\$7,326,058	\$3,711,001	0
Paper & Allied Products	\$11,460,586	\$5,071,359	\$2,292,391	0
Printing & Publishing	\$16,131,719	\$8,169,000	\$5,330,410	0
Chemicals & Petroleum Refining	\$60,278,585	\$9,127,076	\$4,286,669	0
Rubber & Leather Products	\$8,755,633	\$3,767,197	\$2,201,244	0
Lumber Products & Furniture	\$3,619,854	\$1,267,840	\$905,991	0
Stone, Clay, & Glass Products	\$4,701,287	\$2,608,323	\$1,362,414	0
Primary Metal	\$3,787,072	\$1,047,852	\$779,207	0
Fabricated Metal Products	\$9,575,274	\$3,438,930	\$2,219,748	0
Machinery, Except Electrical	\$5,919,098	\$2,370,518	\$1,694,108	0
Electric & Electronic Equipment	\$5,737,489	\$3,022,256	\$1,805,130	0
Motor Vehicles & Equipment	\$4,619,049	\$1,039,629	\$675,039	0
Transp. Equip., Exc. Motor Vehicles	\$2,007,984	\$856,648	\$559,905	0
Instruments & Related Products	\$1,615,296	\$662,018	\$503,024	0
Miscellaneous Manufacturing	\$3,703,463	\$1,461,785	\$1,008,789	0
Transportation	\$54,364,284	\$37,371,119	\$24,716,022	153
Communication	\$56,692,997	\$35,030,756	\$14,955,712	49
Electric, Gas, Water, Sanitary Services	\$138,078,031	\$30,994,913	\$13,524,766	0
Wholesale Trade	\$58,356,266	\$39,490,125	\$22,770,402	94
Retail Trade	\$361,489,217	\$299,541,195	\$179,116,291	4,631
Finance	\$24,589,924	\$12,986,106	\$7,561,808	0
Insurance	\$33,778,678	\$20,218,275	\$12,085,597	0
Real Estate	\$337,172,736	\$33,118,031	\$5,335,892	0
Hotels, Lodging Places, Amusements	\$28,688,130	\$15,109,223	\$9,911,766	147
Personal Services	\$79,973,962	\$49,743,180	\$38,700,638	582
Business Services	\$75,425,501	\$44,399,064	\$36,219,098	192
Eating & Drinking Places	\$156,842,745	\$91,853,278	\$48,870,769	2,177
Health Services	\$100,145,636	\$70,979,153	\$60,015,423	892
Miscellaneous Services	\$71,616,500	\$28,022,000	\$24,293,181	438
Households	\$2,281,426	\$2,281,426	\$2,232,769	47
<b>Total</b>	<b>\$1,922,317,853</b>	<b>\$922,968,166</b>	<b>\$570,137,951</b>	<b>9,643</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group





**The Impact of Royalty and Lease Payments Associated with Activity in  
the Barnett Shale on Business Activity in the Barnett Shale Region 2007  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$35,913,348	\$9,765,368	\$6,650,698	43
Forestry & Fishery Products	\$423,393	\$443,843	\$164,733	0
Coal Mining	\$1,550,778	\$447,304	\$470,673	0
Crude Petroleum & Natural Gas	\$16,235,109	\$3,546,418	\$1,634,951	0
Miscellaneous Mining	\$502,791	\$215,179	\$127,043	0
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$55,600,654	\$28,492,936	\$23,479,578	160
Food Products & Tobacco	\$35,972,587	\$9,253,027	\$4,726,509	26
Textile Mill Products	\$118,494	\$25,674	\$21,477	0
Apparel	\$10,800,061	\$5,973,770	\$3,025,513	0
Paper & Allied Products	\$8,512,053	\$3,766,720	\$1,702,944	0
Printing & Publishing	\$15,130,198	\$7,661,027	\$5,000,268	0
Chemicals & Petroleum Refining	\$33,651,923	\$5,096,649	\$2,392,388	0
Rubber & Leather Products	\$7,905,055	\$3,400,120	\$1,987,528	0
Lumber Products & Furniture	\$3,816,565	\$1,337,364	\$953,767	0
Stone, Clay, & Glass Products	\$5,433,764	\$3,012,576	\$1,574,282	0
Primary Metal	\$1,635,917	\$452,356	\$336,301	0
Fabricated Metal Products	\$11,353,235	\$4,077,036	\$2,632,860	0
Machinery, Except Electrical	\$4,563,376	\$1,829,502	\$1,306,603	0
Electric & Electronic Equipment	\$4,900,984	\$2,581,047	\$1,543,345	0
Motor Vehicles & Equipment	\$4,991,895	\$1,123,276	\$729,651	0
Transp. Equip., Exc. Motor Vehicles	\$1,684,092	\$721,037	\$469,421	0
Instruments & Related Products	\$864,310	\$354,384	\$269,800	0
Miscellaneous Manufacturing	\$3,151,911	\$1,242,917	\$857,942	0
Transportation	\$61,788,396	\$42,536,092	\$28,131,938	168
Communication	\$53,695,930	\$33,251,622	\$14,196,925	62
Electric, Gas, Water, Sanitary Services	\$135,190,757	\$30,341,337	\$13,240,124	0
Wholesale Trade	\$53,090,156	\$35,926,453	\$20,714,822	86
Retail Trade	\$450,969,156	\$373,688,456	\$223,455,484	5,815
Finance	\$25,065,643	\$13,237,516	\$7,708,481	0
Insurance	\$22,522,279	\$13,479,981	\$8,058,455	0
Real Estate	\$370,311,631	\$30,149,159	\$4,857,838	0
Hotels, Lodging Places, Amusements	\$33,237,824	\$17,537,550	\$11,504,872	188
Personal Services	\$99,537,915	\$61,917,994	\$48,173,719	649
Business Services	\$65,907,141	\$37,298,449	\$30,426,500	159
Eating & Drinking Places	\$195,737,493	\$114,630,368	\$60,990,576	2,748
Health Services	\$117,648,103	\$83,467,498	\$70,573,521	1,057
Miscellaneous Services	\$88,490,711	\$34,586,911	\$29,983,154	500
Households	\$2,067,957	\$2,067,957	\$2,024,329	10
<b>Total</b>	<b>\$2,039,973,588</b>	<b>\$1,018,936,874</b>	<b>\$636,099,016</b>	<b>11,672</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Royalty and Lease Payments Associated with Activity in  
the Barnett Shale on Business Activity in Texas 2007  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$53,668,698	\$14,593,638	\$9,937,460	74
Forestry & Fishery Products	\$1,354,732	\$1,420,968	\$525,748	0
Coal Mining	\$7,254,904	\$2,098,851	\$2,207,519	0
Crude Petroleum & Natural Gas	\$38,829,780	\$8,479,234	\$3,912,060	0
Miscellaneous Mining	\$935,583	\$399,485	\$235,966	0
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$70,170,759	\$35,959,901	\$29,632,300	226
Food Products & Tobacco	\$109,738,449	\$28,226,856	\$14,419,769	64
Textile Mill Products	\$1,444,771	\$327,040	\$279,433	0
Apparel	\$20,006,356	\$11,063,470	\$5,604,181	0
Paper & Allied Products	\$17,307,242	\$7,658,530	\$3,461,862	0
Printing & Publishing	\$24,361,368	\$12,336,442	\$8,049,735	0
Chemicals & Petroleum Refining	\$91,029,903	\$13,783,283	\$6,473,527	0
Rubber & Leather Products	\$13,222,348	\$5,689,046	\$3,324,216	0
Lumber Products & Furniture	\$5,466,534	\$1,914,632	\$1,368,186	0
Stone, Clay, & Glass Products	\$7,099,664	\$3,938,968	\$2,057,454	0
Primary Metal	\$5,719,059	\$1,582,418	\$1,176,723	0
Fabricated Metal Products	\$14,460,132	\$5,193,311	\$3,352,159	0
Machinery, Except Electrical	\$8,938,746	\$3,579,845	\$2,558,363	0
Electric & Electronic Equipment	\$8,664,488	\$4,564,070	\$2,726,023	0
Motor Vehicles & Equipment	\$6,975,471	\$1,569,999	\$1,019,412	0
Transp. Equip., Exc. Motor Vehicles	\$3,032,364	\$1,293,671	\$845,543	0
Instruments & Related Products	\$2,439,345	\$999,749	\$759,643	0
Miscellaneous Manufacturing	\$5,592,796	\$2,207,519	\$1,523,426	0
Transportation	\$82,098,402	\$56,436,118	\$37,324,982	231
Communication	\$85,615,115	\$52,901,810	\$22,585,418	73
Electric, Gas, Water, Sanitary Services	\$208,518,990	\$46,807,070	\$20,424,470	0
Wholesale Trade	\$88,126,906	\$59,636,141	\$34,386,798	142
Retail Trade	\$545,904,124	\$452,353,116	\$270,493,053	6,994
Finance	\$37,134,554	\$19,611,010	\$11,419,488	0
Insurance	\$51,010,981	\$30,532,694	\$18,251,104	0
Real Estate	\$509,182,510	\$50,013,303	\$8,058,015	0
Hotels, Lodging Places, Amusements	\$43,323,474	\$22,817,243	\$14,968,285	221
Personal Services	\$120,772,941	\$75,119,825	\$58,443,895	879
Business Services	\$113,904,068	\$67,049,391	\$54,696,390	290
Eating & Drinking Places	\$236,856,584	\$138,712,529	\$73,802,351	3,288
Health Services	\$151,235,259	\$107,189,400	\$90,632,487	1,348
Miscellaneous Services	\$108,151,891	\$42,317,515	\$36,686,426	661
Households	\$3,445,303	\$3,445,303	\$3,371,823	71
<b>Total</b>	<b>\$2,902,994,593</b>	<b>\$1,393,823,395</b>	<b>\$860,995,692</b>	<b>14,563</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group

**The Impact of Royalty and Lease Payments Associated with Activity in  
the Barnett Shale on Business Activity in the Barnett Shale Region 2008  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$66,797,238	\$18,163,152	\$12,370,005	80
Forestry & Fishery Products	\$787,492	\$825,528	\$306,397	0
Coal Mining	\$2,884,379	\$831,966	\$875,431	0
Crude Petroleum & Natural Gas	\$30,196,585	\$6,596,181	\$3,040,937	0
Miscellaneous Mining	\$935,170	\$400,223	\$236,295	0
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$103,414,757	\$52,995,600	\$43,670,976	298
Food Products & Tobacco	\$66,907,420	\$17,210,222	\$8,791,098	48
Textile Mill Products	\$220,394	\$47,752	\$39,945	0
Apparel	\$20,087,636	\$11,110,948	\$5,627,320	0
Paper & Allied Products	\$15,832,043	\$7,005,933	\$3,167,400	0
Printing & Publishing	\$28,141,500	\$14,249,172	\$9,300,277	0
Chemicals & Petroleum Refining	\$62,591,088	\$9,479,541	\$4,449,736	0
Rubber & Leather Products	\$14,703,053	\$6,324,074	\$3,696,715	0
Lumber Products & Furniture	\$7,098,642	\$2,487,439	\$1,773,964	0
Stone, Clay, & Glass Products	\$10,106,561	\$5,603,258	\$2,928,095	0
Primary Metal	\$3,042,733	\$841,362	\$625,505	0
Fabricated Metal Products	\$21,116,515	\$7,583,108	\$4,897,003	0
Machinery, Except Electrical	\$8,487,677	\$3,402,793	\$2,430,224	0
Electric & Electronic Equipment	\$9,115,613	\$4,800,633	\$2,870,554	0
Motor Vehicles & Equipment	\$9,284,705	\$2,089,243	\$1,357,119	0
Transp. Equip., Exc. Motor Vehicles	\$3,132,337	\$1,341,097	\$873,102	0
Instruments & Related Products	\$1,607,579	\$659,139	\$501,817	0
Miscellaneous Manufacturing	\$5,862,415	\$2,311,770	\$1,595,735	0
Transportation	\$114,923,683	\$79,115,250	\$52,324,160	312
Communication	\$99,872,054	\$61,846,546	\$26,405,652	116
Electric, Gas, Water, Sanitary Services	\$251,448,829	\$56,433,545	\$24,626,045	0
Wholesale Trade	\$98,745,342	\$66,821,613	\$38,528,653	161
Retail Trade	\$838,782,682	\$695,043,998	\$415,617,316	10,816
Finance	\$46,620,987	\$24,621,195	\$14,337,433	0
Insurance	\$41,890,442	\$25,072,169	\$14,988,370	0
Real Estate	\$688,763,252	\$56,076,102	\$9,035,364	0
Hotels, Lodging Places, Amusements	\$61,820,883	\$32,619,067	\$21,398,553	350
Personal Services	\$185,136,119	\$115,164,730	\$89,600,987	1,208
Business Services	\$122,584,367	\$69,373,465	\$56,591,945	295
Eating & Drinking Places	\$364,063,079	\$213,207,414	\$113,439,774	5,111
Health Services	\$218,820,267	\$155,245,855	\$131,263,628	1,967
Miscellaneous Services	\$164,588,809	\$64,330,125	\$55,767,341	930
Households	\$3,846,309	\$3,846,309	\$3,765,163	18
<b>Total</b>	<b>\$3,794,260,636</b>	<b>\$1,895,177,514</b>	<b>\$1,183,116,033</b>	<b>21,709</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group

**The Impact of Royalty and Lease Payments Associated with Activity in  
the Barnett Shale on Business Activity in Texas 2008  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$99,821,404	\$27,143,522	\$18,483,235	137
Forestry & Fishery Products	\$2,519,741	\$2,642,937	\$977,867	0
Coal Mining	\$13,493,801	\$3,903,770	\$4,105,888	0
Crude Petroleum & Natural Gas	\$72,221,672	\$15,771,000	\$7,276,258	0
Miscellaneous Mining	\$1,740,142	\$743,025	\$438,885	0
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$130,514,508	\$66,883,825	\$55,114,767	421
Food Products & Tobacco	\$204,108,660	\$52,500,704	\$26,820,133	120
Textile Mill Products	\$2,687,211	\$608,280	\$519,733	0
Apparel	\$37,210,937	\$20,577,565	\$10,423,528	0
Paper & Allied Products	\$32,190,704	\$14,244,526	\$6,438,911	0
Printing & Publishing	\$45,311,068	\$22,945,237	\$14,972,152	0
Chemicals & Petroleum Refining	\$169,311,593	\$25,636,297	\$12,040,474	0
Rubber & Leather Products	\$24,592,982	\$10,581,373	\$6,182,894	0
Lumber Products & Furniture	\$10,167,512	\$3,561,132	\$2,544,765	0
Stone, Clay, & Glass Products	\$13,205,061	\$7,326,306	\$3,826,773	0
Primary Metal	\$10,637,196	\$2,943,227	\$2,188,652	0
Fabricated Metal Products	\$26,895,205	\$9,659,329	\$6,234,868	0
Machinery, Except Electrical	\$16,625,672	\$6,658,354	\$4,758,442	0
Electric & Electronic Equipment	\$16,115,564	\$8,488,968	\$5,070,281	0
Motor Vehicles & Equipment	\$12,974,068	\$2,920,128	\$1,896,062	0
Transp. Equip., Exc. Motor Vehicles	\$5,640,062	\$2,406,170	\$1,572,673	0
Instruments & Related Products	\$4,537,074	\$1,859,488	\$1,412,903	0
Miscellaneous Manufacturing	\$10,402,354	\$4,105,888	\$2,833,506	0
Transportation	\$152,699,395	\$104,968,683	\$69,422,816	430
Communication	\$159,240,328	\$98,395,027	\$42,007,878	137
Electric, Gas, Water, Sanitary Services	\$387,836,098	\$87,059,079	\$37,988,611	0
Wholesale Trade	\$163,912,147	\$110,920,585	\$63,957,922	264
Retail Trade	\$1,015,357,523	\$841,356,786	\$503,105,114	13,009
Finance	\$69,068,627	\$36,475,612	\$21,239,743	0
Insurance	\$94,878,169	\$56,789,461	\$33,946,246	0
Real Estate	\$947,056,945	\$93,022,531	\$14,987,551	0
Hotels, Lodging Places, Amusements	\$80,579,744	\$42,439,063	\$27,840,349	412
Personal Services	\$224,632,327	\$139,719,552	\$108,703,059	1,635
Business Services	\$211,856,527	\$124,708,901	\$101,732,866	540
Eating & Drinking Places	\$440,542,770	\$257,999,167	\$137,269,109	6,115
Health Services	\$281,290,893	\$199,367,543	\$168,572,417	2,507
Miscellaneous Services	\$201,157,733	\$78,708,707	\$68,235,130	1,229
Households	\$6,408,112	\$6,408,112	\$6,271,441	132
<b>Total</b>	<b>\$5,399,441,532</b>	<b>\$2,592,449,859</b>	<b>\$1,601,413,902</b>	<b>27,087</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Royalty and Lease Payments Associated with Activity in  
the Barnett Shale on Business Activity in the Barnett Shale Region 2009  
Detailed Industrial Category**

Category	Total Expenditures (2011 Dollars)	Gross Product (2011 Dollars)	Personal Income (2011 Dollars)	Employment (Jobs)
Agricultural Products & Services	\$33,790,972	\$9,188,263	\$6,257,661	40
Forestry & Fishery Products	\$398,372	\$417,613	\$154,998	0
Coal Mining	\$1,459,132	\$420,870	\$442,858	0
Crude Petroleum & Natural Gas	\$15,275,661	\$3,336,835	\$1,538,331	0
Miscellaneous Mining	\$473,078	\$202,462	\$119,535	0
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$52,314,816	\$26,809,085	\$22,092,002	151
Food Products & Tobacco	\$33,846,711	\$8,706,200	\$4,447,186	25
Textile Mill Products	\$111,491	\$24,157	\$20,207	0
Apparel	\$10,161,809	\$5,620,737	\$2,846,714	0
Paper & Allied Products	\$8,009,016	\$3,544,118	\$1,602,305	0
Printing & Publishing	\$14,236,047	\$7,208,283	\$4,704,766	0
Chemicals & Petroleum Refining	\$31,663,192	\$4,795,452	\$2,251,005	0
Rubber & Leather Products	\$7,437,889	\$3,199,183	\$1,870,071	0
Lumber Products & Furniture	\$3,591,017	\$1,258,330	\$897,402	0
Stone, Clay, & Glass Products	\$5,112,644	\$2,834,541	\$1,481,246	0
Primary Metal	\$1,539,239	\$425,623	\$316,426	0
Fabricated Metal Products	\$10,682,292	\$3,836,095	\$2,477,265	0
Machinery, Except Electrical	\$4,293,694	\$1,721,384	\$1,229,387	0
Electric & Electronic Equipment	\$4,611,350	\$2,428,515	\$1,452,138	0
Motor Vehicles & Equipment	\$4,696,889	\$1,056,893	\$686,531	0
Transp. Equip., Exc. Motor Vehicles	\$1,584,567	\$678,426	\$441,679	0
Instruments & Related Products	\$813,232	\$333,441	\$253,856	0
Miscellaneous Manufacturing	\$2,965,642	\$1,169,464	\$807,240	0
Transportation	\$58,136,880	\$40,022,332	\$26,469,421	158
Communication	\$50,522,655	\$31,286,547	\$13,357,928	59
Electric, Gas, Water, Sanitary Services	\$127,201,374	\$28,548,252	\$12,457,671	0
Wholesale Trade	\$49,952,681	\$33,803,303	\$19,490,636	81
Retail Trade	\$424,318,180	\$351,604,546	\$210,249,910	5,471
Finance	\$23,584,336	\$12,455,217	\$7,252,932	0
Insurance	\$21,191,277	\$12,683,353	\$7,582,224	0
Real Estate	\$348,427,282	\$28,367,431	\$4,570,754	0
Hotels, Lodging Places, Amusements	\$31,273,565	\$16,501,131	\$10,824,967	177
Personal Services	\$93,655,511	\$58,258,819	\$45,326,792	611
Business Services	\$62,012,219	\$35,094,218	\$28,628,382	149
Eating & Drinking Places	\$184,169,972	\$107,856,044	\$57,386,209	2,585
Health Services	\$110,695,439	\$78,534,810	\$66,402,830	995
Miscellaneous Services	\$83,261,166	\$32,542,925	\$28,211,237	470
Households	\$1,945,747	\$1,945,747	\$1,904,697	9
<b>Total</b>	<b>\$1,919,417,035</b>	<b>\$958,720,645</b>	<b>\$598,507,400</b>	<b>10,982</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Royalty and Lease Payments Associated with Activity in  
the Barnett Shale on Business Activity in Texas 2009  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$50,497,033	\$13,731,197	\$9,350,184	70
Forestry & Fishery Products	\$1,274,671	\$1,336,993	\$494,678	0
Coal Mining	\$6,826,160	\$1,974,815	\$2,077,061	0
Crude Petroleum & Natural Gas	\$36,535,052	\$7,978,136	\$3,680,868	0
Miscellaneous Mining	\$880,292	\$375,877	\$222,021	0
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$66,023,870	\$33,834,775	\$27,881,116	213
Food Products & Tobacco	\$103,253,223	\$26,558,730	\$13,567,602	61
Textile Mill Products	\$1,359,389	\$307,713	\$262,919	0
Apparel	\$18,824,038	\$10,409,651	\$5,272,990	0
Paper & Allied Products	\$16,284,434	\$7,205,933	\$3,257,276	0
Printing & Publishing	\$22,921,682	\$11,607,394	\$7,574,019	0
Chemicals & Petroleum Refining	\$85,650,298	\$12,968,731	\$6,090,961	0
Rubber & Leather Products	\$12,440,945	\$5,352,839	\$3,127,764	0
Lumber Products & Furniture	\$5,143,478	\$1,801,483	\$1,287,330	0
Stone, Clay, & Glass Products	\$6,680,094	\$3,706,186	\$1,935,864	0
Primary Metal	\$5,381,079	\$1,488,901	\$1,107,182	0
Fabricated Metal Products	\$13,605,580	\$4,886,401	\$3,154,056	0
Machinery, Except Electrical	\$8,410,492	\$3,368,287	\$2,407,171	0
Electric & Electronic Equipment	\$8,152,441	\$4,294,346	\$2,564,922	0
Motor Vehicles & Equipment	\$6,563,241	\$1,477,216	\$959,168	0
Transp. Equip., Exc. Motor Vehicles	\$2,853,160	\$1,217,218	\$795,574	0
Instruments & Related Products	\$2,295,187	\$940,666	\$714,751	0
Miscellaneous Manufacturing	\$5,262,278	\$2,077,061	\$1,433,396	0
Transportation	\$77,246,623	\$53,100,906	\$35,119,183	218
Communication	\$80,555,509	\$49,775,466	\$21,250,685	69
Electric, Gas, Water, Sanitary Services	\$196,196,120	\$44,040,907	\$19,217,443	0
Wholesale Trade	\$82,918,860	\$56,111,818	\$32,354,637	133
Retail Trade	\$513,642,765	\$425,620,352	\$254,507,694	6,581
Finance	\$34,940,009	\$18,452,056	\$10,744,630	0
Insurance	\$47,996,379	\$28,728,300	\$17,172,516	0
Real Estate	\$479,091,293	\$47,057,661	\$7,581,810	0
Hotels, Lodging Places, Amusements	\$40,763,181	\$21,468,810	\$14,083,703	208
Personal Services	\$113,635,608	\$70,680,460	\$54,990,029	827
Business Services	\$107,172,666	\$63,086,965	\$51,463,991	273
Eating & Drinking Places	\$222,859,044	\$130,515,018	\$69,440,845	3,093
Health Services	\$142,297,692	\$100,854,816	\$85,276,369	1,268
Miscellaneous Services	\$101,760,426	\$39,816,672	\$34,518,364	622
Households	\$3,241,696	\$3,241,696	\$3,172,558	67
<b>Total</b>	<b>\$2,731,435,989</b>	<b>\$1,311,452,454</b>	<b>\$810,113,331</b>	<b>13,703</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Royalty and Lease Payments Associated with Activity in  
the Barnett Shale on Business Activity in the Barnett Shale Region 2010  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$39,503,703	\$10,741,638	\$7,315,587	47
Forestry & Fishery Products	\$465,721	\$488,215	\$181,202	0
Coal Mining	\$1,705,814	\$492,022	\$517,728	0
Crude Petroleum & Natural Gas	\$17,858,177	\$3,900,963	\$1,798,402	0
Miscellaneous Mining	\$553,057	\$236,691	\$139,744	0
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$61,159,202	\$31,341,452	\$25,826,895	176
Food Products & Tobacco	\$39,568,864	\$10,178,078	\$5,199,031	29
Textile Mill Products	\$130,340	\$28,241	\$23,624	0
Apparel	\$11,879,773	\$6,570,984	\$3,327,981	0
Paper & Allied Products	\$9,363,027	\$4,143,289	\$1,873,192	0
Printing & Publishing	\$16,642,805	\$8,426,921	\$5,500,158	0
Chemicals & Petroleum Refining	\$37,016,197	\$5,606,175	\$2,631,561	0
Rubber & Leather Products	\$8,695,345	\$3,740,040	\$2,186,227	0
Lumber Products & Furniture	\$4,198,117	\$1,471,064	\$1,049,117	0
Stone, Clay, & Glass Products	\$5,976,992	\$3,313,751	\$1,731,667	0
Primary Metal	\$1,799,464	\$497,579	\$369,922	0
Fabricated Metal Products	\$12,488,249	\$4,484,629	\$2,896,074	0
Machinery, Except Electrical	\$5,019,589	\$2,012,402	\$1,437,228	0
Electric & Electronic Equipment	\$5,390,948	\$2,839,081	\$1,697,638	0
Motor Vehicles & Equipment	\$5,490,949	\$1,235,573	\$802,596	0
Transp. Equip., Exc. Motor Vehicles	\$1,852,455	\$793,121	\$516,350	0
Instruments & Related Products	\$950,718	\$389,813	\$296,773	0
Miscellaneous Manufacturing	\$3,467,016	\$1,367,175	\$943,713	0
Transportation	\$67,965,550	\$46,788,541	\$30,944,364	185
Communication	\$59,064,057	\$36,575,877	\$15,616,230	69
Electric, Gas, Water, Sanitary Services	\$148,706,145	\$33,374,643	\$14,563,775	0
Wholesale Trade	\$58,397,723	\$39,518,118	\$22,785,739	95
Retail Trade	\$496,053,767	\$411,047,106	\$245,794,936	6,396
Finance	\$27,571,523	\$14,560,907	\$8,479,118	0
Insurance	\$24,773,892	\$14,827,612	\$8,864,081	0
Real Estate	\$407,332,690	\$33,163,252	\$5,343,490	0
Hotels, Lodging Places, Amusements	\$36,560,700	\$19,290,826	\$12,655,045	207
Personal Services	\$109,488,991	\$68,108,104	\$52,989,777	714
Business Services	\$72,496,057	\$41,027,276	\$33,468,320	174
Eating & Drinking Places	\$215,305,902	\$126,090,277	\$67,087,970	3,022
Health Services	\$129,409,703	\$91,811,971	\$77,628,948	1,163
Miscellaneous Services	\$97,337,368	\$38,044,659	\$32,980,652	550
Households	\$2,274,696	\$2,274,696	\$2,226,707	11
<b>Total</b>	<b>\$2,243,915,286</b>	<b>\$1,120,802,760</b>	<b>\$699,691,562</b>	<b>12,838</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Royalty and Lease Payments Associated with Activity in  
the Barnett Shale on Business Activity in Texas 2010  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$59,034,103	\$16,052,604	\$10,930,934	81
Forestry & Fishery Products	\$1,490,168	\$1,563,026	\$578,308	0
Coal Mining	\$7,980,197	\$2,308,679	\$2,428,211	0
Crude Petroleum & Natural Gas	\$42,711,698	\$9,326,926	\$4,303,159	0
Miscellaneous Mining	\$1,029,115	\$439,423	\$259,556	0
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$77,185,921	\$39,554,910	\$32,594,721	249
Food Products & Tobacco	\$120,709,299	\$31,048,771	\$15,861,353	71
Textile Mill Products	\$1,589,209	\$359,735	\$307,368	0
Apparel	\$22,006,446	\$12,169,516	\$6,164,446	0
Paper & Allied Products	\$19,037,494	\$8,424,174	\$3,807,954	0
Printing & Publishing	\$26,796,841	\$13,569,750	\$8,854,489	0
Chemicals & Petroleum Refining	\$100,130,409	\$15,161,236	\$7,120,703	0
Rubber & Leather Products	\$14,544,222	\$6,257,795	\$3,656,547	0
Lumber Products & Furniture	\$6,013,038	\$2,106,043	\$1,504,967	0
Stone, Clay, & Glass Products	\$7,809,437	\$4,332,757	\$2,263,143	0
Primary Metal	\$6,290,808	\$1,740,616	\$1,294,363	0
Fabricated Metal Products	\$15,905,750	\$5,712,500	\$3,687,284	0
Machinery, Except Electrical	\$9,832,377	\$3,937,732	\$2,814,129	0
Electric & Electronic Equipment	\$9,530,700	\$5,020,352	\$2,998,550	0
Motor Vehicles & Equipment	\$7,672,828	\$1,726,956	\$1,121,326	0
Transp. Equip., Exc. Motor Vehicles	\$3,335,517	\$1,423,002	\$930,074	0
Instruments & Related Products	\$2,683,213	\$1,099,696	\$835,587	0
Miscellaneous Manufacturing	\$6,151,923	\$2,428,211	\$1,675,727	0
Transportation	\$90,306,002	\$62,078,190	\$41,056,462	255
Communication	\$94,174,291	\$58,190,548	\$24,843,343	81
Electric, Gas, Water, Sanitary Services	\$229,365,200	\$51,486,499	\$22,466,360	0
Wholesale Trade	\$96,937,192	\$65,598,128	\$37,824,539	156
Retail Trade	\$600,479,642	\$497,576,085	\$297,534,978	7,693
Finance	\$40,846,996	\$21,571,576	\$12,561,126	0
Insurance	\$56,110,688	\$33,585,131	\$20,075,716	0
Real Estate	\$560,086,868	\$55,013,268	\$8,863,597	0
Hotels, Lodging Places, Amusements	\$47,654,639	\$25,098,345	\$16,464,706	243
Personal Services	\$132,846,939	\$82,629,758	\$64,286,690	967
Business Services	\$125,291,367	\$73,752,501	\$60,164,536	319
Eating & Drinking Places	\$260,535,780	\$152,579,997	\$81,180,573	3,616
Health Services	\$166,354,659	\$117,905,416	\$99,693,263	1,482
Miscellaneous Services	\$118,964,129	\$46,548,112	\$40,354,068	727
Households	\$3,789,740	\$3,789,740	\$3,708,913	78
<b>Total</b>	<b>\$3,193,214,845</b>	<b>\$1,533,167,704</b>	<b>\$947,071,769</b>	<b>16,019</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group





**The Impact of Royalty and Lease Payments Associated with Activity in  
the Barnett Shale on Business Activity in the Barnett Shale Region 2011  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$41,531,694	\$11,293,079	\$7,691,145	50
Forestry & Fishery Products	\$489,629	\$513,278	\$190,505	0
Coal Mining	\$1,793,385	\$517,281	\$544,306	0
Crude Petroleum & Natural Gas	\$18,774,958	\$4,101,226	\$1,890,726	0
Miscellaneous Mining	\$581,449	\$248,842	\$146,918	0
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$64,298,916	\$32,950,420	\$27,152,763	185
Food Products & Tobacco	\$41,600,200	\$10,700,587	\$5,465,933	30
Textile Mill Products	\$137,031	\$29,690	\$24,836	0
Apparel	\$12,489,642	\$6,908,317	\$3,498,829	0
Paper & Allied Products	\$9,843,694	\$4,355,992	\$1,969,355	0
Printing & Publishing	\$17,497,193	\$8,859,532	\$5,782,518	0
Chemicals & Petroleum Refining	\$38,916,488	\$5,893,977	\$2,766,657	0
Rubber & Leather Products	\$9,141,736	\$3,932,041	\$2,298,461	0
Lumber Products & Furniture	\$4,413,635	\$1,546,584	\$1,102,975	0
Stone, Clay, & Glass Products	\$6,283,832	\$3,483,868	\$1,820,565	0
Primary Metal	\$1,891,843	\$523,123	\$388,912	0
Fabricated Metal Products	\$13,129,355	\$4,714,855	\$3,044,749	0
Machinery, Except Electrical	\$5,277,278	\$2,115,713	\$1,511,011	0
Electric & Electronic Equipment	\$5,667,702	\$2,984,831	\$1,784,789	0
Motor Vehicles & Equipment	\$5,772,836	\$1,299,003	\$843,799	0
Transp. Equip., Exc. Motor Vehicles	\$1,947,554	\$833,837	\$542,858	0
Instruments & Related Products	\$999,524	\$409,825	\$312,008	0
Miscellaneous Manufacturing	\$3,645,001	\$1,437,361	\$992,160	0
Transportation	\$71,454,679	\$49,190,512	\$32,532,946	194
Communication	\$62,096,213	\$38,453,563	\$16,417,916	72
Electric, Gas, Water, Sanitary Services	\$156,340,233	\$35,087,988	\$15,311,432	0
Wholesale Trade	\$61,395,672	\$41,546,849	\$23,955,485	100
Retail Trade	\$521,519,549	\$432,148,922	\$258,413,245	6,725
Finance	\$28,986,955	\$15,308,416	\$8,914,409	0
Insurance	\$26,045,703	\$15,588,813	\$9,319,134	0
Real Estate	\$428,243,821	\$34,865,745	\$5,617,807	0
Hotels, Lodging Places, Amusements	\$38,437,607	\$20,281,155	\$13,304,714	218
Personal Services	\$115,109,798	\$71,604,552	\$55,710,099	751
Business Services	\$76,217,768	\$43,133,482	\$35,186,475	183
Eating & Drinking Places	\$226,359,004	\$132,563,340	\$70,532,047	3,178
Health Services	\$136,053,175	\$96,525,298	\$81,614,164	1,223
Miscellaneous Services	\$102,334,351	\$39,997,747	\$34,673,771	578
Households	\$2,391,472	\$2,391,472	\$2,341,019	11
<b>Total</b>	<b>\$2,359,110,573</b>	<b>\$1,178,341,116</b>	<b>\$735,611,443</b>	<b>13,497</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Royalty and Lease Payments Associated with Activity in  
the Barnett Shale on Business Activity in Texas 2011  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$62,064,722	\$16,876,692	\$11,492,093	85
Forestry & Fishery Products	\$1,566,668	\$1,643,266	\$607,997	0
Coal Mining	\$8,389,874	\$2,427,199	\$2,552,868	0
Crude Petroleum & Natural Gas	\$44,904,377	\$9,805,740	\$4,524,069	0
Miscellaneous Mining	\$1,081,947	\$461,982	\$272,880	0
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$81,148,394	\$41,585,530	\$34,268,028	262
Food Products & Tobacco	\$126,906,121	\$32,642,714	\$16,675,623	75
Textile Mill Products	\$1,670,794	\$378,203	\$323,148	0
Apparel	\$23,136,185	\$12,794,259	\$6,480,908	0
Paper & Allied Products	\$20,014,817	\$8,856,643	\$4,003,442	0
Printing & Publishing	\$28,172,503	\$14,266,376	\$9,309,050	0
Chemicals & Petroleum Refining	\$105,270,778	\$15,939,564	\$7,486,257	0
Rubber & Leather Products	\$15,290,875	\$6,579,050	\$3,844,262	0
Lumber Products & Furniture	\$6,321,728	\$2,214,161	\$1,582,227	0
Stone, Clay, & Glass Products	\$8,210,348	\$4,555,187	\$2,379,325	0
Primary Metal	\$6,613,758	\$1,829,974	\$1,360,811	0
Fabricated Metal Products	\$16,722,300	\$6,005,761	\$3,876,577	0
Machinery, Except Electrical	\$10,337,139	\$4,139,882	\$2,958,598	0
Electric & Electronic Equipment	\$10,019,975	\$5,278,081	\$3,152,486	0
Motor Vehicles & Equipment	\$8,066,726	\$1,815,612	\$1,178,891	0
Transp. Equip., Exc. Motor Vehicles	\$3,506,752	\$1,496,055	\$977,821	0
Instruments & Related Products	\$2,820,961	\$1,156,151	\$878,483	0
Miscellaneous Manufacturing	\$6,467,743	\$2,552,868	\$1,761,754	0
Transportation	\$94,942,017	\$65,265,082	\$43,164,167	268
Communication	\$99,008,892	\$61,177,861	\$26,118,719	85
Electric, Gas, Water, Sanitary Services	\$241,140,061	\$54,129,648	\$23,619,710	0
Wholesale Trade	\$101,913,631	\$68,965,722	\$39,766,327	164
Retail Trade	\$631,306,307	\$523,120,018	\$312,809,453	8,088
Finance	\$42,943,947	\$22,678,991	\$13,205,973	0
Insurance	\$58,991,227	\$35,309,282	\$21,106,338	0
Real Estate	\$588,839,900	\$57,837,470	\$9,318,625	0
Hotels, Lodging Places, Amusements	\$50,101,072	\$26,386,812	\$17,309,950	256
Personal Services	\$139,666,868	\$86,871,700	\$67,586,958	1,017
Business Services	\$131,723,416	\$77,538,713	\$63,253,187	336
Eating & Drinking Places	\$273,910,837	\$160,412,956	\$85,348,118	3,802
Health Services	\$174,894,764	\$123,958,295	\$104,811,190	1,558
Miscellaneous Services	\$125,071,359	\$48,937,740	\$42,425,714	764
Households	\$3,984,293	\$3,984,293	\$3,899,317	82
<b>Total</b>	<b>\$3,357,144,073</b>	<b>\$1,611,875,530</b>	<b>\$995,691,343</b>	<b>16,841</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



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# The Impact of Pipeline Development and Operations and Other Direct Support Industries Associated with Activity in the Barnett Shale



**The Impact of Pipeline Development and Operations and Other Direct Support Industries Associated with Activity in the Barnett Shale on Business Activity in the Barnett Shale Region 2001 Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$1,004,583	\$276,715	\$188,449	2
Forestry & Fishery Products	\$10,573	\$10,142	\$3,764	0
Coal Mining	\$27,147	\$7,803	\$8,226	0
Crude Petroleum & Natural Gas	\$478,621	\$103,484	\$47,721	0
Miscellaneous Mining	\$49,427	\$21,761	\$12,774	0
New Construction	\$24,271,499	\$11,033,265	\$9,092,103	131
Maintenance & Repair Construction	\$1,127,599	\$596,169	\$491,292	6
Food Products & Tobacco	\$975,488	\$253,198	\$129,337	2
Textile Mill Products	\$4,269	\$992	\$843	0
Apparel	\$359,370	\$200,350	\$101,510	2
Paper & Allied Products	\$122,787	\$53,994	\$24,409	0
Printing & Publishing	\$376,362	\$186,637	\$121,820	1
Chemicals & Petroleum Refining	\$863,280	\$134,195	\$63,009	0
Rubber & Leather Products	\$256,804	\$112,063	\$65,512	1
Lumber Products & Furniture	\$146,467	\$50,668	\$36,143	0
Stone, Clay, & Glass Products	\$514,372	\$259,272	\$135,606	2
Primary Metal	\$592,230	\$183,313	\$136,459	2
Fabricated Metal Products	\$3,015,741	\$1,176,769	\$759,723	13
Machinery, Except Electrical	\$237,619	\$97,979	\$70,013	1
Electric & Electronic Equipment	\$133,229	\$71,865	\$42,947	0
Motor Vehicles & Equipment	\$116,451	\$23,955	\$15,578	0
Transp. Equip., Exc. Motor Vehicles	\$39,043	\$16,024	\$10,471	0
Instruments & Related Products	\$20,873	\$9,034	\$6,865	0
Miscellaneous Manufacturing	\$98,737	\$38,247	\$26,372	0
Transportation	\$2,184,270	\$1,437,798	\$950,925	9
Communication	\$734,614	\$455,045	\$194,265	1
Electric, Gas, Water, Sanitary Services	\$2,160,790	\$486,624	\$212,347	0
Wholesale Trade	\$1,825,627	\$1,235,817	\$712,587	7
Retail Trade	\$6,747,498	\$5,590,418	\$3,342,875	86
Finance	\$895,106	\$485,000	\$282,419	2
Insurance	\$604,542	\$360,979	\$215,802	2
Real Estate	\$6,017,856	\$780,276	\$125,707	1
Hotels, Lodging Places, Amusements	\$579,165	\$302,824	\$198,659	4
Personal Services	\$1,354,823	\$831,907	\$647,237	11
Business Services	\$4,406,363	\$2,826,415	\$2,305,634	27
Eating & Drinking Places	\$2,988,093	\$1,750,897	\$931,569	40
Health Services	\$2,033,457	\$1,423,340	\$1,203,456	18
Miscellaneous Services	\$2,169,044	\$895,791	\$776,578	16
Households	\$96,379	\$96,379	\$94,327	5
<b>Total</b>	<b>\$69,640,198</b>	<b>\$33,877,404</b>	<b>\$23,785,335</b>	<b>392</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group

**The Impact of Pipeline Development and Operations and Other Direct Support Industries Associated with Activity in the Barnett Shale on Business Activity in Texas 2001  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$1,234,060	\$339,655	\$231,307	2
Forestry & Fishery Products	\$26,893	\$26,068	\$9,612	0
Coal Mining	\$146,212	\$42,087	\$44,344	0
Crude Petroleum & Natural Gas	\$989,646	\$214,075	\$98,761	0
Miscellaneous Mining	\$74,004	\$32,548	\$19,102	0
New Construction	\$24,271,499	\$11,033,265	\$9,092,103	131
Maintenance & Repair Construction	\$1,335,855	\$704,577	\$580,671	7
Food Products & Tobacco	\$2,621,103	\$680,015	\$347,447	5
Textile Mill Products	\$37,402	\$8,713	\$7,354	0
Apparel	\$619,142	\$345,044	\$174,876	3
Paper & Allied Products	\$414,970	\$182,497	\$82,499	0
Printing & Publishing	\$593,244	\$294,607	\$192,303	2
Chemicals & Petroleum Refining	\$2,839,013	\$440,868	\$207,012	2
Rubber & Leather Products	\$404,460	\$176,430	\$103,081	2
Lumber Products & Furniture	\$188,128	\$65,120	\$46,407	0
Stone, Clay, & Glass Products	\$659,335	\$332,835	\$174,099	2
Primary Metal	\$1,469,542	\$454,581	\$338,369	5
Fabricated Metal Products	\$3,388,908	\$1,321,802	\$853,313	14
Machinery, Except Electrical	\$367,786	\$151,503	\$108,202	2
Electric & Electronic Equipment	\$348,369	\$187,764	\$112,134	0
Motor Vehicles & Equipment	\$214,026	\$44,198	\$28,665	0
Transp. Equip., Exc. Motor Vehicles	\$110,168	\$45,242	\$29,538	0
Instruments & Related Products	\$95,047	\$41,019	\$31,237	0
Miscellaneous Manufacturing	\$169,900	\$65,873	\$45,436	0
Transportation	\$2,611,977	\$1,721,553	\$1,138,600	13
Communication	\$1,597,914	\$987,923	\$421,766	3
Electric, Gas, Water, Sanitary Services	\$3,300,099	\$743,436	\$324,389	0
Wholesale Trade	\$3,271,288	\$2,214,459	\$1,276,899	13
Retail Trade	\$7,560,596	\$6,264,183	\$3,745,845	97
Finance	\$1,146,586	\$620,549	\$361,330	2
Insurance	\$1,472,018	\$879,041	\$525,502	5
Real Estate	\$8,228,621	\$1,148,649	\$185,070	2
Hotels, Lodging Places, Amusements	\$795,159	\$415,018	\$272,302	5
Personal Services	\$1,544,444	\$949,525	\$738,752	12
Business Services	\$7,256,086	\$4,675,225	\$3,813,756	44
Eating & Drinking Places	\$3,410,267	\$1,998,200	\$1,063,164	46
Health Services	\$2,581,687	\$1,806,164	\$1,527,090	23
Miscellaneous Services	\$2,344,481	\$965,083	\$836,639	17
Households	\$115,702	\$115,702	\$113,275	7
<b>Total</b>	<b>\$89,855,637</b>	<b>\$42,735,095</b>	<b>\$29,302,252</b>	<b>466</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Pipeline Development and Operations and Other Direct Support Industries Associated with Activity in the Barnett Shale on Business Activity in the Barnett Shale Region 2002  
Detailed Industrial Category**

Category	Total Expenditures (2011 Dollars)	Gross Product (2011 Dollars)	Personal Income (2011 Dollars)	Employment (Jobs)
Agricultural Products & Services	\$828,267	\$228,148	\$155,374	1
Forestry & Fishery Products	\$8,717	\$8,362	\$3,104	0
Coal Mining	\$22,383	\$6,433	\$6,782	0
Crude Petroleum & Natural Gas	\$394,617	\$85,321	\$39,345	0
Miscellaneous Mining	\$40,752	\$17,941	\$10,532	0
New Construction	\$20,011,562	\$9,096,796	\$7,496,331	108
Maintenance & Repair Construction	\$929,692	\$491,534	\$405,064	5
Food Products & Tobacco	\$804,279	\$208,758	\$106,636	1
Textile Mill Products	\$3,520	\$818	\$695	0
Apparel	\$296,296	\$165,187	\$83,694	2
Paper & Allied Products	\$101,237	\$44,518	\$20,125	0
Printing & Publishing	\$310,306	\$153,880	\$100,439	1
Chemicals & Petroleum Refining	\$711,764	\$110,642	\$51,950	0
Rubber & Leather Products	\$211,732	\$92,395	\$54,013	1
Lumber Products & Furniture	\$120,760	\$41,775	\$29,800	0
Stone, Clay, & Glass Products	\$424,094	\$213,766	\$111,806	1
Primary Metal	\$488,286	\$151,140	\$112,508	2
Fabricated Metal Products	\$2,486,442	\$970,232	\$626,383	11
Machinery, Except Electrical	\$195,914	\$80,783	\$57,725	1
Electric & Electronic Equipment	\$109,845	\$59,252	\$35,409	0
Motor Vehicles & Equipment	\$96,012	\$19,751	\$12,844	0
Transp. Equip., Exc. Motor Vehicles	\$32,191	\$13,212	\$8,634	0
Instruments & Related Products	\$17,209	\$7,449	\$5,660	0
Miscellaneous Manufacturing	\$81,408	\$31,534	\$21,743	0
Transportation	\$1,800,905	\$1,185,447	\$784,026	8
Communication	\$605,681	\$375,179	\$160,169	1
Electric, Gas, Water, Sanitary Services	\$1,781,545	\$401,215	\$175,077	0
Wholesale Trade	\$1,505,208	\$1,018,916	\$587,519	5
Retail Trade	\$5,563,231	\$4,609,233	\$2,756,161	71
Finance	\$738,004	\$399,876	\$232,851	1
Insurance	\$498,438	\$297,623	\$177,926	2
Real Estate	\$4,961,651	\$643,328	\$103,644	1
Hotels, Lodging Places, Amusements	\$477,515	\$249,675	\$163,792	4
Personal Services	\$1,117,036	\$685,897	\$533,640	9
Business Services	\$3,632,994	\$2,330,346	\$1,900,968	23
Eating & Drinking Places	\$2,463,647	\$1,443,594	\$768,068	33
Health Services	\$1,676,561	\$1,173,527	\$992,235	15
Miscellaneous Services	\$1,788,351	\$738,569	\$640,279	13
Households	\$79,463	\$79,463	\$77,772	4
<b>Total</b>	<b>\$57,417,514</b>	<b>\$27,931,516</b>	<b>\$19,610,725</b>	<b>323</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Pipeline Development and Operations and Other Direct Support Industries Associated with Activity in the Barnett Shale on Business Activity in Texas 2002  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$1,017,468	\$280,042	\$190,710	1
Forestry & Fishery Products	\$22,173	\$21,492	\$7,925	0
Coal Mining	\$120,550	\$34,700	\$36,561	0
Crude Petroleum & Natural Gas	\$815,951	\$176,502	\$81,427	0
Miscellaneous Mining	\$61,015	\$26,836	\$15,749	0
New Construction	\$20,011,562	\$9,096,796	\$7,496,331	108
Maintenance & Repair Construction	\$1,101,396	\$580,916	\$478,757	6
Food Products & Tobacco	\$2,161,069	\$560,664	\$286,466	4
Textile Mill Products	\$30,838	\$7,184	\$6,064	0
Apparel	\$510,475	\$284,484	\$144,183	3
Paper & Allied Products	\$342,138	\$150,467	\$68,019	0
Printing & Publishing	\$489,123	\$242,900	\$158,552	1
Chemicals & Petroleum Refining	\$2,340,732	\$363,490	\$170,679	1
Rubber & Leather Products	\$333,473	\$145,464	\$84,989	1
Lumber Products & Furniture	\$155,110	\$53,691	\$38,262	0
Stone, Clay, & Glass Products	\$543,614	\$274,419	\$143,543	1
Primary Metal	\$1,211,620	\$374,797	\$278,981	4
Fabricated Metal Products	\$2,794,114	\$1,089,810	\$703,546	12
Machinery, Except Electrical	\$303,235	\$124,912	\$89,212	1
Electric & Electronic Equipment	\$287,226	\$154,809	\$92,453	0
Motor Vehicles & Equipment	\$176,462	\$36,441	\$23,634	0
Transp. Equip., Exc. Motor Vehicles	\$90,832	\$37,302	\$24,354	0
Instruments & Related Products	\$78,365	\$33,820	\$25,755	0
Miscellaneous Manufacturing	\$140,081	\$54,311	\$37,462	0
Transportation	\$2,153,544	\$1,419,400	\$938,762	10
Communication	\$1,317,461	\$814,531	\$347,741	3
Electric, Gas, Water, Sanitary Services	\$2,720,892	\$612,954	\$267,455	0
Wholesale Trade	\$2,697,138	\$1,825,795	\$1,052,788	11
Retail Trade	\$6,233,621	\$5,164,744	\$3,088,404	80
Finance	\$945,346	\$511,636	\$297,912	1
Insurance	\$1,213,661	\$724,759	\$433,270	4
Real Estate	\$6,784,400	\$947,047	\$152,588	1
Hotels, Lodging Places, Amusements	\$655,599	\$342,178	\$224,510	4
Personal Services	\$1,273,376	\$782,872	\$609,092	10
Business Services	\$5,982,556	\$3,854,667	\$3,144,397	36
Eating & Drinking Places	\$2,811,724	\$1,647,492	\$876,566	38
Health Services	\$2,128,570	\$1,489,160	\$1,259,067	19
Miscellaneous Services	\$1,932,997	\$795,700	\$689,799	14
Households	\$95,395	\$95,395	\$93,394	5
<b>Total</b>	<b>\$74,084,903</b>	<b>\$35,234,577</b>	<b>\$24,159,358</b>	<b>384</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Pipeline Development and Operations and Other Direct Support Industries Associated with Activity in the Barnett Shale on Business Activity in the Barnett Shale Region 2003  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$3,857,104	\$1,062,447	\$723,552	6
Forestry & Fishery Products	\$40,594	\$38,941	\$14,453	0
Coal Mining	\$104,233	\$29,958	\$31,584	0
Crude Petroleum & Natural Gas	\$1,837,669	\$397,328	\$183,225	0
Miscellaneous Mining	\$189,776	\$83,550	\$49,047	0
New Construction	\$93,190,569	\$42,362,289	\$34,909,187	502
Maintenance & Repair Construction	\$4,329,424	\$2,288,994	\$1,886,318	23
Food Products & Tobacco	\$3,745,394	\$972,154	\$496,588	6
Textile Mill Products	\$16,392	\$3,809	\$3,236	0
Apparel	\$1,379,803	\$769,247	\$389,750	8
Paper & Allied Products	\$471,442	\$207,311	\$93,718	0
Printing & Publishing	\$1,445,045	\$716,592	\$467,729	5
Chemicals & Petroleum Refining	\$3,314,569	\$515,242	\$241,923	0
Rubber & Leather Products	\$986,000	\$430,267	\$251,532	4
Lumber Products & Furniture	\$562,359	\$194,540	\$138,773	0
Stone, Clay, & Glass Products	\$1,974,935	\$995,475	\$520,661	6
Primary Metal	\$2,273,869	\$703,832	\$523,934	8
Fabricated Metal Products	\$11,578,955	\$4,518,211	\$2,916,962	49
Machinery, Except Electrical	\$912,338	\$376,193	\$268,816	3
Electric & Electronic Equipment	\$511,532	\$275,927	\$164,894	0
Motor Vehicles & Equipment	\$447,113	\$91,977	\$59,812	0
Transp. Equip., Exc. Motor Vehicles	\$149,907	\$61,525	\$40,205	0
Instruments & Related Products	\$80,141	\$34,688	\$26,359	0
Miscellaneous Manufacturing	\$379,102	\$146,851	\$101,254	0
Transportation	\$8,386,519	\$5,520,434	\$3,651,081	36
Communication	\$2,820,557	\$1,747,149	\$745,882	2
Electric, Gas, Water, Sanitary Services	\$8,296,365	\$1,868,394	\$815,307	0
Wholesale Trade	\$7,009,508	\$4,744,927	\$2,735,982	25
Retail Trade	\$25,907,058	\$21,464,444	\$12,834,990	332
Finance	\$3,436,765	\$1,862,159	\$1,084,350	6
Insurance	\$2,321,143	\$1,385,981	\$828,574	7
Real Estate	\$23,105,596	\$2,995,875	\$482,652	3
Hotels, Lodging Places, Amusements	\$2,223,707	\$1,162,695	\$762,753	17
Personal Services	\$5,201,853	\$3,194,111	\$2,485,072	40
Business Services	\$16,918,258	\$10,852,039	\$8,852,495	105
Eating & Drinking Places	\$11,472,800	\$6,722,581	\$3,576,766	155
Health Services	\$7,807,472	\$5,464,922	\$4,620,678	71
Miscellaneous Services	\$8,328,057	\$3,439,395	\$2,981,675	63
Households	\$370,048	\$370,048	\$362,170	21
<b>Total</b>	<b>\$267,383,971</b>	<b>\$130,072,502</b>	<b>\$91,323,940</b>	<b>1,505</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group





**The Impact of Pipeline Development and Operations and Other Direct Support Industries Associated with Activity in the Barnett Shale on Business Activity in Texas 2003  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$4,738,181	\$1,304,109	\$888,106	7
Forestry & Fishery Products	\$103,255	\$100,087	\$36,903	0
Coal Mining	\$561,380	\$161,592	\$170,259	0
Crude Petroleum & Natural Gas	\$3,799,752	\$821,941	\$379,192	0
Miscellaneous Mining	\$284,138	\$124,969	\$73,341	0
New Construction	\$93,190,569	\$42,362,289	\$34,909,187	502
Maintenance & Repair Construction	\$5,129,023	\$2,705,229	\$2,229,491	27
Food Products & Tobacco	\$10,063,743	\$2,610,920	\$1,334,023	17
Textile Mill Products	\$143,607	\$33,455	\$28,237	0
Apparel	\$2,377,198	\$1,324,797	\$671,438	13
Paper & Allied Products	\$1,593,279	\$700,700	\$316,755	0
Printing & Publishing	\$2,277,764	\$1,131,147	\$738,349	7
Chemicals & Petroleum Refining	\$10,900,408	\$1,692,714	\$794,822	7
Rubber & Leather Products	\$1,552,928	\$677,402	\$395,780	7
Lumber Products & Furniture	\$722,320	\$250,030	\$178,180	0
Stone, Clay, & Glass Products	\$2,531,522	\$1,277,922	\$668,456	7
Primary Metal	\$5,642,316	\$1,745,366	\$1,299,170	21
Fabricated Metal Products	\$13,011,733	\$5,075,065	\$3,276,301	55
Machinery, Except Electrical	\$1,412,117	\$581,696	\$415,444	7
Electric & Electronic Equipment	\$1,337,564	\$720,922	\$430,540	0
Motor Vehicles & Equipment	\$821,754	\$169,700	\$110,058	0
Transp. Equip., Exc. Motor Vehicles	\$422,992	\$173,707	\$113,413	0
Instruments & Related Products	\$364,934	\$157,492	\$119,936	0
Miscellaneous Manufacturing	\$652,334	\$252,919	\$174,453	0
Transportation	\$10,028,703	\$6,609,914	\$4,371,663	49
Communication	\$6,135,201	\$3,793,136	\$1,619,373	13
Electric, Gas, Water, Sanitary Services	\$12,670,749	\$2,854,427	\$1,245,492	0
Wholesale Trade	\$12,560,132	\$8,502,428	\$4,902,663	51
Retail Trade	\$29,028,956	\$24,051,368	\$14,382,194	374
Finance	\$4,402,322	\$2,382,603	\$1,387,328	6
Insurance	\$5,651,822	\$3,375,083	\$2,017,669	20
Real Estate	\$31,593,840	\$4,410,244	\$710,578	7
Hotels, Lodging Places, Amusements	\$3,053,016	\$1,593,466	\$1,045,505	20
Personal Services	\$5,929,902	\$3,645,708	\$2,836,441	46
Business Services	\$27,859,787	\$17,950,554	\$14,642,941	170
Eating & Drinking Places	\$13,093,741	\$7,672,100	\$4,082,027	178
Health Services	\$9,912,401	\$6,934,776	\$5,863,271	88
Miscellaneous Services	\$9,001,650	\$3,705,443	\$3,212,279	66
Households	\$444,239	\$444,239	\$434,920	26
<b>Total</b>	<b>\$345,001,273</b>	<b>\$164,081,661</b>	<b>\$112,506,179</b>	<b>1,788</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group

**The Impact of Pipeline Development and Operations and Other Direct Support Industries Associated with Activity in the Barnett Shale on Business Activity in the Barnett Shale Region 2004  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$5,672,687	\$1,562,554	\$1,064,137	9
Forestry & Fishery Products	\$59,703	\$57,271	\$21,257	0
Coal Mining	\$153,296	\$44,060	\$46,451	0
Crude Petroleum & Natural Gas	\$2,702,680	\$584,354	\$269,472	0
Miscellaneous Mining	\$279,106	\$122,878	\$72,134	0
New Construction	\$137,056,438	\$62,302,704	\$51,341,342	739
Maintenance & Repair Construction	\$6,367,333	\$3,366,450	\$2,774,229	34
Food Products & Tobacco	\$5,508,393	\$1,429,758	\$730,338	9
Textile Mill Products	\$24,108	\$5,602	\$4,759	0
Apparel	\$2,029,292	\$1,131,340	\$573,209	12
Paper & Allied Products	\$693,356	\$304,895	\$137,833	0
Printing & Publishing	\$2,125,245	\$1,053,901	\$687,894	7
Chemicals & Petroleum Refining	\$4,874,774	\$757,772	\$355,800	1
Rubber & Leather Products	\$1,450,121	\$632,798	\$369,931	6
Lumber Products & Furniture	\$827,068	\$286,113	\$204,095	0
Stone, Clay, & Glass Products	\$2,904,559	\$1,464,057	\$765,742	9
Primary Metal	\$3,344,205	\$1,035,134	\$770,555	12
Fabricated Metal Products	\$17,029,302	\$6,644,985	\$4,290,009	72
Machinery, Except Electrical	\$1,341,786	\$553,271	\$395,351	4
Electric & Electronic Equipment	\$752,316	\$405,809	\$242,511	0
Motor Vehicles & Equipment	\$657,575	\$135,271	\$87,967	0
Transp. Equip., Exc. Motor Vehicles	\$220,470	\$90,485	\$59,130	0
Instruments & Related Products	\$117,864	\$51,015	\$38,766	0
Miscellaneous Manufacturing	\$557,549	\$215,975	\$148,915	0
Transportation	\$12,334,149	\$8,118,965	\$5,369,687	54
Communication	\$4,148,225	\$2,569,552	\$1,096,977	3
Electric, Gas, Water, Sanitary Services	\$12,201,559	\$2,747,868	\$1,199,082	0
Wholesale Trade	\$10,308,964	\$6,978,419	\$4,023,840	37
Retail Trade	\$38,101,808	\$31,568,003	\$18,876,566	488
Finance	\$5,054,490	\$2,738,698	\$1,594,766	9
Insurance	\$3,413,732	\$2,038,377	\$1,218,593	11
Real Estate	\$33,981,664	\$4,406,068	\$709,842	4
Hotels, Lodging Places, Amusements	\$3,270,432	\$1,709,989	\$1,121,790	25
Personal Services	\$7,650,425	\$4,697,616	\$3,654,824	59
Business Services	\$24,881,876	\$15,960,218	\$13,019,465	154
Eating & Drinking Places	\$16,873,178	\$9,886,977	\$5,260,391	229
Health Services	\$11,482,538	\$8,037,324	\$6,795,685	104
Miscellaneous Services	\$12,248,169	\$5,058,357	\$4,385,184	92
Households	\$544,234	\$544,234	\$532,648	31
<b>Total</b>	<b>\$393,244,670</b>	<b>\$191,299,119</b>	<b>\$134,311,164</b>	<b>2,213</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Pipeline Development and Operations and Other Direct Support Industries Associated with Activity in the Barnett Shale on Business Activity in Texas 2004**  
**Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$6,968,498	\$1,917,968	\$1,306,148	10
Forestry & Fishery Products	\$151,859	\$147,199	\$54,274	0
Coal Mining	\$825,628	\$237,656	\$250,402	0
Crude Petroleum & Natural Gas	\$5,588,339	\$1,208,838	\$557,683	0
Miscellaneous Mining	\$417,885	\$183,793	\$107,863	0
New Construction	\$137,056,438	\$62,302,704	\$51,341,342	739
Maintenance & Repair Construction	\$7,543,312	\$3,978,611	\$3,278,938	40
Food Products & Tobacco	\$14,800,862	\$3,839,910	\$1,961,963	26
Textile Mill Products	\$211,204	\$49,203	\$41,528	0
Apparel	\$3,496,173	\$1,948,394	\$987,492	19
Paper & Allied Products	\$2,343,254	\$1,030,527	\$465,855	0
Printing & Publishing	\$3,349,933	\$1,663,591	\$1,085,898	10
Chemicals & Petroleum Refining	\$16,031,355	\$2,489,493	\$1,168,954	10
Rubber & Leather Products	\$2,283,908	\$996,263	\$582,079	10
Lumber Products & Furniture	\$1,062,324	\$367,722	\$262,052	0
Stone, Clay, & Glass Products	\$3,723,138	\$1,879,455	\$983,106	10
Primary Metal	\$8,298,219	\$2,566,930	\$1,910,704	30
Fabricated Metal Products	\$19,136,505	\$7,463,957	\$4,818,493	81
Machinery, Except Electrical	\$2,076,816	\$855,506	\$610,998	10
Electric & Electronic Equipment	\$1,967,171	\$1,060,269	\$633,201	0
Motor Vehicles & Equipment	\$1,208,564	\$249,580	\$161,864	0
Transp. Equip., Exc. Motor Vehicles	\$622,099	\$255,473	\$166,798	0
Instruments & Related Products	\$536,713	\$231,625	\$176,392	0
Miscellaneous Manufacturing	\$959,395	\$371,971	\$256,570	0
Transportation	\$14,749,329	\$9,721,276	\$6,429,455	71
Communication	\$9,023,111	\$5,578,608	\$2,381,630	19
Electric, Gas, Water, Sanitary Services	\$18,635,016	\$4,198,039	\$1,831,759	0
Wholesale Trade	\$18,472,330	\$12,504,618	\$7,210,402	75
Retail Trade	\$42,693,218	\$35,372,622	\$21,152,057	550
Finance	\$6,474,546	\$3,504,122	\$2,040,359	9
Insurance	\$8,312,199	\$4,963,773	\$2,967,409	29
Real Estate	\$46,465,422	\$6,486,196	\$1,045,055	10
Hotels, Lodging Places, Amusements	\$4,490,106	\$2,343,528	\$1,537,636	29
Personal Services	\$8,721,175	\$5,361,785	\$4,171,587	68
Business Services	\$40,973,707	\$26,400,085	\$21,535,541	250
Eating & Drinking Places	\$19,257,115	\$11,283,445	\$6,003,483	261
Health Services	\$14,578,282	\$10,199,055	\$8,623,180	129
Miscellaneous Services	\$13,238,830	\$5,449,638	\$4,724,335	97
Households	\$653,348	\$653,348	\$639,642	38
<b>Total</b>	<b>\$507,397,325</b>	<b>\$241,316,778</b>	<b>\$165,464,126</b>	<b>2,629</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group

**The Impact of Pipeline Development and Operations and Other Direct Support Industries Associated with Activity in the Barnett Shale on Business Activity in the Barnett Shale Region 2005  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$7,106,998	\$1,957,638	\$1,333,198	11
Forestry & Fishery Products	\$74,798	\$71,751	\$26,631	0
Coal Mining	\$192,057	\$55,201	\$58,196	0
Crude Petroleum & Natural Gas	\$3,386,039	\$732,105	\$337,606	0
Miscellaneous Mining	\$349,677	\$153,947	\$90,372	0
New Construction	\$171,710,474	\$78,055,632	\$64,322,744	925
Maintenance & Repair Construction	\$7,977,282	\$4,217,640	\$3,475,680	43
Food Products & Tobacco	\$6,901,163	\$1,791,265	\$915,001	11
Textile Mill Products	\$30,203	\$7,019	\$5,962	0
Apparel	\$2,542,389	\$1,417,394	\$718,142	15
Paper & Allied Products	\$868,667	\$381,987	\$172,683	0
Printing & Publishing	\$2,662,602	\$1,320,374	\$861,825	9
Chemicals & Petroleum Refining	\$6,107,337	\$949,371	\$445,762	1
Rubber & Leather Products	\$1,816,777	\$792,798	\$463,466	8
Lumber Products & Furniture	\$1,036,188	\$358,455	\$255,699	0
Stone, Clay, & Glass Products	\$3,638,963	\$1,834,236	\$959,355	11
Primary Metal	\$4,189,771	\$1,296,862	\$965,386	15
Fabricated Metal Products	\$21,335,076	\$8,325,137	\$5,374,717	91
Machinery, Except Electrical	\$1,681,050	\$693,163	\$495,313	5
Electric & Electronic Equipment	\$942,536	\$508,416	\$303,828	0
Motor Vehicles & Equipment	\$823,839	\$169,474	\$110,208	0
Transp. Equip., Exc. Motor Vehicles	\$276,215	\$113,363	\$74,081	0
Instruments & Related Products	\$147,665	\$63,914	\$48,568	0
Miscellaneous Manufacturing	\$698,523	\$270,584	\$186,567	0
Transportation	\$15,452,777	\$10,171,805	\$6,727,385	67
Communication	\$5,197,083	\$3,219,250	\$1,374,342	4
Electric, Gas, Water, Sanitary Services	\$15,286,662	\$3,442,653	\$1,502,263	0
Wholesale Trade	\$12,915,534	\$8,742,877	\$5,041,248	46
Retail Trade	\$47,735,660	\$39,549,816	\$23,649,412	612
Finance	\$6,332,493	\$3,431,165	\$1,997,995	11
Insurance	\$4,276,877	\$2,553,771	\$1,526,708	13
Real Estate	\$42,573,758	\$5,520,120	\$889,322	5
Hotels, Lodging Places, Amusements	\$4,097,344	\$2,142,351	\$1,405,429	31
Personal Services	\$9,584,796	\$5,885,385	\$4,578,928	74
Business Services	\$31,173,134	\$19,995,679	\$16,311,372	193
Eating & Drinking Places	\$21,139,477	\$12,386,850	\$6,590,455	286
Health Services	\$14,385,841	\$10,069,521	\$8,513,939	130
Miscellaneous Services	\$15,345,057	\$6,337,337	\$5,493,956	115
Households	\$681,840	\$681,840	\$667,325	39
<b>Total</b>	<b>\$492,674,622</b>	<b>\$239,668,146</b>	<b>\$168,271,072</b>	<b>2,773</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Pipeline Development and Operations and Other Direct Support Industries Associated with Activity in the Barnett Shale on Business Activity in Texas 2005  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$8,730,447	\$2,402,916	\$1,636,401	12
Forestry & Fishery Products	\$190,255	\$184,417	\$67,997	0
Coal Mining	\$1,034,384	\$297,746	\$313,715	0
Crude Petroleum & Natural Gas	\$7,001,323	\$1,514,486	\$698,690	0
Miscellaneous Mining	\$523,545	\$230,264	\$135,136	0
New Construction	\$171,710,474	\$78,055,632	\$64,322,744	925
Maintenance & Repair Construction	\$9,450,601	\$4,984,583	\$4,108,001	50
Food Products & Tobacco	\$18,543,186	\$4,810,812	\$2,458,035	32
Textile Mill Products	\$264,606	\$61,644	\$52,028	0
Apparel	\$4,380,162	\$2,441,036	\$1,237,174	24
Paper & Allied Products	\$2,935,734	\$1,291,091	\$583,644	0
Printing & Publishing	\$4,196,947	\$2,084,222	\$1,360,462	12
Chemicals & Petroleum Refining	\$20,084,802	\$3,118,949	\$1,464,519	12
Rubber & Leather Products	\$2,861,383	\$1,248,163	\$729,254	12
Lumber Products & Furniture	\$1,330,928	\$460,699	\$328,310	0
Stone, Clay, & Glass Products	\$4,664,515	\$2,354,666	\$1,231,679	12
Primary Metal	\$10,396,382	\$3,215,965	\$2,393,816	38
Fabricated Metal Products	\$23,975,075	\$9,351,181	\$6,036,825	101
Machinery, Except Electrical	\$2,601,929	\$1,071,817	\$765,485	12
Electric & Electronic Equipment	\$2,464,560	\$1,328,352	\$793,302	0
Motor Vehicles & Equipment	\$1,514,143	\$312,685	\$202,790	0
Transp. Equip., Exc. Motor Vehicles	\$779,394	\$320,068	\$208,972	0
Instruments & Related Products	\$672,418	\$290,191	\$220,991	0
Miscellaneous Manufacturing	\$1,201,973	\$466,022	\$321,442	0
Transportation	\$18,478,623	\$12,179,252	\$8,055,110	90
Communication	\$11,304,559	\$6,989,131	\$2,983,813	24
Electric, Gas, Water, Sanitary Services	\$23,346,786	\$5,259,492	\$2,294,910	0
Wholesale Trade	\$23,142,966	\$15,666,349	\$9,033,516	94
Retail Trade	\$53,487,984	\$44,316,413	\$26,500,249	689
Finance	\$8,111,603	\$4,390,122	\$2,556,254	11
Insurance	\$10,413,897	\$6,218,838	\$3,717,703	36
Real Estate	\$58,213,972	\$8,126,198	\$1,309,292	13
Hotels, Lodging Places, Amusements	\$5,625,407	\$2,936,077	\$1,926,420	37
Personal Services	\$10,926,281	\$6,717,485	\$5,226,352	85
Business Services	\$51,333,705	\$33,075,215	\$26,980,695	313
Eating & Drinking Places	\$24,126,180	\$14,136,408	\$7,521,434	327
Health Services	\$18,264,328	\$12,777,835	\$10,803,508	161
Miscellaneous Services	\$16,586,202	\$6,827,552	\$5,918,860	122
Households	\$818,544	\$818,544	\$801,373	47
<b>Total</b>	<b>\$635,690,206</b>	<b>\$302,332,521</b>	<b>\$207,300,904</b>	<b>3,294</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Pipeline Development and Operations and Other Direct Support Industries Associated with Activity in the Barnett Shale on Business Activity in the Barnett Shale Region 2006  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$56,164,053	\$15,470,507	\$10,535,787	86
Forestry & Fishery Products	\$591,102	\$567,024	\$210,457	0
Coal Mining	\$1,517,754	\$436,231	\$459,906	0
Crude Petroleum & Natural Gas	\$26,758,654	\$5,785,566	\$2,667,982	0
Miscellaneous Mining	\$2,763,369	\$1,216,591	\$714,181	0
New Construction	\$1,356,966,246	\$616,845,645	\$508,319,556	7,314
Maintenance & Repair Construction	\$63,041,593	\$33,330,492	\$27,467,048	338
Food Products & Tobacco	\$54,537,416	\$14,155,723	\$7,230,922	85
Textile Mill Products	\$238,687	\$55,469	\$47,114	0
Apparel	\$20,091,586	\$11,201,153	\$5,675,220	122
Paper & Allied Products	\$6,864,765	\$3,018,703	\$1,364,651	0
Printing & Publishing	\$21,041,590	\$10,434,444	\$6,810,690	69
Chemicals & Petroleum Refining	\$48,264,090	\$7,502,542	\$3,522,694	6
Rubber & Leather Products	\$14,357,335	\$6,265,196	\$3,662,605	64
Lumber Products & Furniture	\$8,188,625	\$2,832,739	\$2,020,696	0
Stone, Clay, & Glass Products	\$28,757,416	\$14,495,309	\$7,581,442	86
Primary Metal	\$33,110,254	\$10,248,638	\$7,629,100	122
Fabricated Metal Products	\$168,603,446	\$65,790,567	\$42,474,459	717
Machinery, Except Electrical	\$13,284,735	\$5,477,818	\$3,914,284	38
Electric & Electronic Equipment	\$7,448,523	\$4,017,830	\$2,401,047	0
Motor Vehicles & Equipment	\$6,510,507	\$1,339,293	\$870,938	0
Transp. Equip., Exc. Motor Vehicles	\$2,182,830	\$895,871	\$585,438	0
Instruments & Related Products	\$1,166,946	\$505,093	\$383,814	0
Miscellaneous Manufacturing	\$5,520,175	\$2,138,325	\$1,474,374	0
Transportation	\$122,117,751	\$80,384,122	\$53,164,110	530
Communication	\$41,070,682	\$25,440,580	\$10,860,935	35
Electric, Gas, Water, Sanitary Services	\$120,805,002	\$27,206,053	\$11,871,849	0
Wholesale Trade	\$102,066,826	\$69,091,818	\$39,839,172	367
Retail Trade	\$377,237,784	\$312,547,997	\$186,892,813	4,833
Finance	\$50,043,418	\$27,115,263	\$15,789,434	88
Insurance	\$33,798,627	\$20,181,535	\$12,065,025	106
Real Estate	\$336,445,132	\$43,623,529	\$7,027,990	38
Hotels, Lodging Places, Amusements	\$32,379,838	\$16,930,228	\$11,106,597	247
Personal Services	\$75,745,204	\$46,510,084	\$36,185,625	587
Business Services	\$246,350,086	\$158,018,676	\$128,902,920	1,529
Eating & Drinking Places	\$167,057,699	\$97,888,828	\$52,082,001	2,264
Health Services	\$113,686,136	\$79,575,812	\$67,282,608	1,029
Miscellaneous Services	\$121,266,477	\$50,081,702	\$43,416,764	912
Households	\$5,388,339	\$5,388,339	\$5,273,633	305
<b>Total</b>	<b>\$3,893,430,698</b>	<b>\$1,894,011,333</b>	<b>\$1,329,785,881</b>	<b>21,915</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Pipeline Development and Operations and Other Direct Support Industries Associated with Activity in the Barnett Shale on Business Activity in Texas 2006  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$68,993,592	\$18,989,386	\$12,931,888	97
Forestry & Fishery Products	\$1,503,519	\$1,457,382	\$537,359	0
Coal Mining	\$8,174,365	\$2,352,979	\$2,479,177	0
Crude Petroleum & Natural Gas	\$55,328,942	\$11,968,442	\$5,521,496	0
Miscellaneous Mining	\$4,137,390	\$1,819,692	\$1,067,932	0
New Construction	\$1,356,966,246	\$616,845,645	\$508,319,556	7,314
Maintenance & Repair Construction	\$74,684,708	\$39,391,373	\$32,464,060	395
Food Products & Tobacco	\$146,540,142	\$38,018,123	\$19,424,972	254
Textile Mill Products	\$2,091,085	\$487,151	\$411,161	0
Apparel	\$34,614,852	\$19,290,632	\$9,776,942	191
Paper & Allied Products	\$23,200,052	\$10,203,029	\$4,612,328	0
Printing & Publishing	\$33,166,969	\$16,470,856	\$10,751,244	97
Chemicals & Petroleum Refining	\$158,722,985	\$24,647,935	\$11,573,565	96
Rubber & Leather Products	\$22,612,486	\$9,863,788	\$5,763,036	98
Lumber Products & Furniture	\$10,517,845	\$3,640,740	\$2,594,519	0
Stone, Clay, & Glass Products	\$36,861,988	\$18,608,078	\$9,733,519	98
Primary Metal	\$82,158,878	\$25,414,621	\$18,917,466	301
Fabricated Metal Products	\$189,466,412	\$73,899,025	\$47,706,862	800
Machinery, Except Electrical	\$20,562,110	\$8,470,183	\$6,049,356	95
Electric & Electronic Equipment	\$19,476,537	\$10,497,491	\$6,269,184	0
Motor Vehicles & Equipment	\$11,965,728	\$2,471,036	\$1,602,577	0
Transp. Equip., Exc. Motor Vehicles	\$6,159,270	\$2,529,385	\$1,651,428	0
Instruments & Related Products	\$5,313,880	\$2,293,273	\$1,746,416	0
Miscellaneous Manufacturing	\$9,498,764	\$3,682,806	\$2,540,241	0
Transportation	\$146,029,923	\$96,248,259	\$63,656,644	708
Communication	\$89,335,873	\$55,232,597	\$23,580,002	192
Electric, Gas, Water, Sanitary Services	\$184,501,273	\$41,563,876	\$18,135,854	0
Wholesale Trade	\$182,890,554	\$123,805,529	\$71,388,637	744
Retail Trade	\$422,696,343	\$350,216,705	\$209,421,958	5,442
Finance	\$64,103,085	\$34,693,556	\$20,201,157	88
Insurance	\$82,297,289	\$49,145,247	\$29,379,676	287
Real Estate	\$460,044,125	\$64,218,428	\$10,346,868	100
Hotels, Lodging Places, Amusements	\$44,455,571	\$23,202,766	\$15,223,804	290
Personal Services	\$86,346,476	\$53,085,877	\$41,301,982	673
Business Services	\$405,671,844	\$261,381,552	\$213,218,749	2,473
Eating & Drinking Places	\$190,660,542	\$111,714,960	\$59,439,192	2,586
Health Services	\$144,336,429	\$100,978,643	\$85,376,245	1,276
Miscellaneous Services	\$131,074,798	\$53,955,692	\$46,774,627	963
Households	\$6,468,658	\$6,468,658	\$6,332,961	373
<b>Total</b>	<b>\$5,023,631,525</b>	<b>\$2,389,225,396</b>	<b>\$1,638,224,640</b>	<b>26,031</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Pipeline Development and Operations and Other Direct Support Industries Associated with Activity in the Barnett Shale on Business Activity in the Barnett Shale Region 2007  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$60,557,764	\$16,680,764	\$11,360,001	93
Forestry & Fishery Products	\$637,344	\$611,383	\$226,921	0
Coal Mining	\$1,636,488	\$470,357	\$495,884	0
Crude Petroleum & Natural Gas	\$28,851,982	\$6,238,170	\$2,876,698	0
Miscellaneous Mining	\$2,979,547	\$1,311,765	\$770,052	0
New Construction	\$1,463,121,648	\$665,101,450	\$548,085,370	7,886
Maintenance & Repair Construction	\$67,973,334	\$35,937,935	\$29,615,794	364
Food Products & Tobacco	\$58,803,875	\$15,263,125	\$7,796,596	91
Textile Mill Products	\$257,359	\$59,808	\$50,800	0
Apparel	\$21,663,350	\$12,077,419	\$6,119,193	131
Paper & Allied Products	\$7,401,795	\$3,254,856	\$1,471,407	0
Printing & Publishing	\$22,687,673	\$11,250,730	\$7,343,490	74
Chemicals & Petroleum Refining	\$52,039,787	\$8,089,465	\$3,798,274	7
Rubber & Leather Products	\$15,480,509	\$6,755,321	\$3,949,131	69
Lumber Products & Furniture	\$8,829,221	\$3,054,344	\$2,178,775	0
Stone, Clay, & Glass Products	\$31,007,108	\$15,629,276	\$8,174,538	92
Primary Metal	\$35,700,467	\$11,050,388	\$8,225,924	132
Fabricated Metal Products	\$181,793,285	\$70,937,360	\$45,797,234	773
Machinery, Except Electrical	\$14,324,000	\$5,906,348	\$4,220,498	41
Electric & Electronic Equipment	\$8,031,220	\$4,332,144	\$2,588,881	0
Motor Vehicles & Equipment	\$7,019,823	\$1,444,066	\$939,071	0
Transp. Equip., Exc. Motor Vehicles	\$2,353,593	\$965,955	\$631,237	0
Instruments & Related Products	\$1,258,236	\$544,606	\$413,840	0
Miscellaneous Manufacturing	\$5,952,017	\$2,305,607	\$1,589,714	0
Transportation	\$131,671,016	\$86,672,568	\$57,323,135	572
Communication	\$44,283,639	\$27,430,796	\$11,710,586	37
Electric, Gas, Water, Sanitary Services	\$130,255,572	\$29,334,381	\$12,800,583	0
Wholesale Trade	\$110,051,509	\$74,496,867	\$42,955,788	396
Retail Trade	\$406,749,077	\$336,998,611	\$201,513,429	5,211
Finance	\$53,958,312	\$29,236,488	\$17,024,641	95
Insurance	\$36,442,691	\$21,760,336	\$13,008,872	115
Real Estate	\$362,765,218	\$47,036,195	\$7,577,789	41
Hotels, Lodging Places, Amusements	\$34,912,912	\$18,254,679	\$11,975,466	266
Personal Services	\$81,670,747	\$50,148,565	\$39,016,424	633
Business Services	\$265,622,041	\$170,380,469	\$138,986,989	1,649
Eating & Drinking Places	\$180,126,615	\$105,546,666	\$56,156,374	2,441
Health Services	\$122,579,797	\$85,801,024	\$72,546,123	1,110
Miscellaneous Services	\$130,753,147	\$53,999,591	\$46,813,256	983
Households	\$5,809,868	\$5,809,868	\$5,686,189	329
<b>Total</b>	<b>\$4,198,013,589</b>	<b>\$2,042,179,745</b>	<b>\$1,433,814,964</b>	<b>23,629</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group





**The Impact of Pipeline Development and Operations and Other Direct Support Industries Associated with Activity in the Barnett Shale on Business Activity in Texas 2007  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$74,390,957	\$20,474,924	\$13,943,549	104
Forestry & Fishery Products	\$1,621,139	\$1,571,393	\$579,396	0
Coal Mining	\$8,813,845	\$2,537,053	\$2,673,123	0
Crude Petroleum & Natural Gas	\$59,657,322	\$12,904,733	\$5,953,442	0
Miscellaneous Mining	\$4,461,058	\$1,962,046	\$1,151,477	0
New Construction	\$1,463,121,648	\$665,101,450	\$548,085,370	7,886
Maintenance & Repair Construction	\$80,527,289	\$42,472,958	\$35,003,722	426
Food Products & Tobacco	\$158,003,970	\$40,992,279	\$20,944,586	273
Textile Mill Products	\$2,254,670	\$525,261	\$443,326	0
Apparel	\$37,322,770	\$20,799,737	\$10,541,791	206
Paper & Allied Products	\$25,014,991	\$11,001,212	\$4,973,150	0
Printing & Publishing	\$35,761,619	\$17,759,371	\$11,592,313	105
Chemicals & Petroleum Refining	\$171,139,876	\$26,576,142	\$12,478,965	104
Rubber & Leather Products	\$24,381,459	\$10,635,431	\$6,213,878	106
Lumber Products & Furniture	\$11,340,656	\$3,925,555	\$2,797,489	0
Stone, Clay, & Glass Products	\$39,745,700	\$20,063,787	\$10,494,972	106
Primary Metal	\$88,586,163	\$27,402,805	\$20,397,379	324
Fabricated Metal Products	\$204,288,360	\$79,680,142	\$51,438,968	862
Machinery, Except Electrical	\$22,170,682	\$9,132,805	\$6,522,596	103
Electric & Electronic Equipment	\$21,000,185	\$11,318,709	\$6,759,622	0
Motor Vehicles & Equipment	\$12,901,807	\$2,664,345	\$1,727,947	0
Transp. Equip., Exc. Motor Vehicles	\$6,641,109	\$2,727,259	\$1,780,619	0
Instruments & Related Products	\$5,729,584	\$2,472,676	\$1,883,038	0
Miscellaneous Manufacturing	\$10,241,852	\$3,970,912	\$2,738,964	0
Transportation	\$157,453,836	\$103,777,755	\$68,636,500	763
Communication	\$96,324,614	\$59,553,440	\$25,424,665	208
Electric, Gas, Water, Sanitary Services	\$198,934,798	\$44,815,416	\$19,554,621	0
Wholesale Trade	\$197,198,073	\$133,490,830	\$76,973,367	802
Retail Trade	\$455,763,857	\$377,614,140	\$225,805,027	5,868
Finance	\$69,117,867	\$37,407,631	\$21,781,492	95
Insurance	\$88,735,402	\$52,989,877	\$31,678,047	309
Real Estate	\$496,033,354	\$69,242,232	\$11,156,303	108
Hotels, Lodging Places, Amusements	\$47,933,328	\$25,017,917	\$16,414,762	313
Personal Services	\$93,101,357	\$57,238,782	\$44,533,034	725
Business Services	\$437,407,532	\$281,829,418	\$229,898,842	2,666
Eating & Drinking Places	\$205,575,907	\$120,454,416	\$64,089,118	2,789
Health Services	\$155,627,860	\$108,878,197	\$92,055,225	1,376
Miscellaneous Services	\$141,328,773	\$58,176,643	\$50,433,803	1,038
Households	\$6,974,701	\$6,974,701	\$6,828,389	402
<b>Total</b>	<b>\$5,416,629,970</b>	<b>\$2,576,134,381</b>	<b>\$1,766,382,873</b>	<b>28,067</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group

**The Impact of Pipeline Development and Operations and Other Direct Support Industries Associated with Activity in the Barnett Shale on Business Activity in the Barnett Shale Region 2008  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$48,357,046	\$13,320,050	\$9,071,274	74
Forestry & Fishery Products	\$508,937	\$488,206	\$181,203	0
Coal Mining	\$1,306,781	\$375,593	\$395,977	0
Crude Petroleum & Natural Gas	\$23,039,104	\$4,981,351	\$2,297,123	0
Miscellaneous Mining	\$2,379,250	\$1,047,480	\$614,908	0
New Construction	\$1,168,343,011	\$531,101,861	\$437,661,292	6,297
Maintenance & Repair Construction	\$54,278,583	\$28,697,433	\$23,649,028	291
Food Products & Tobacco	\$46,956,517	\$12,188,026	\$6,225,797	73
Textile Mill Products	\$205,509	\$47,758	\$40,565	0
Apparel	\$17,298,783	\$9,644,152	\$4,886,344	105
Paper & Allied Products	\$5,910,538	\$2,599,092	\$1,174,959	0
Printing & Publishing	\$18,116,733	\$8,984,018	\$5,863,979	59
Chemicals & Petroleum Refining	\$41,555,206	\$6,459,661	\$3,033,027	5
Rubber & Leather Products	\$12,361,614	\$5,394,311	\$3,153,490	55
Lumber Products & Furniture	\$7,050,376	\$2,438,978	\$1,739,812	0
Stone, Clay, & Glass Products	\$24,760,031	\$12,480,408	\$6,527,594	74
Primary Metal	\$28,507,808	\$8,824,040	\$6,568,627	105
Fabricated Metal Products	\$145,166,955	\$56,645,440	\$36,570,355	617
Machinery, Except Electrical	\$11,438,109	\$4,716,382	\$3,370,184	32
Electric & Electronic Equipment	\$6,413,151	\$3,459,337	\$2,067,293	0
Motor Vehicles & Equipment	\$5,605,523	\$1,153,127	\$749,874	0
Transp. Equip., Exc. Motor Vehicles	\$1,879,409	\$771,341	\$504,060	0
Instruments & Related Products	\$1,004,736	\$434,883	\$330,462	0
Miscellaneous Manufacturing	\$4,752,850	\$1,841,090	\$1,269,430	0
Transportation	\$105,142,940	\$69,210,437	\$45,774,105	457
Communication	\$35,361,708	\$21,904,247	\$9,351,226	30
Electric, Gas, Water, Sanitary Services	\$104,012,668	\$23,424,313	\$10,221,619	0
Wholesale Trade	\$87,879,167	\$59,487,804	\$34,301,382	316
Retail Trade	\$324,800,362	\$269,102,690	\$160,914,034	4,161
Finance	\$43,087,201	\$23,346,143	\$13,594,646	76
Insurance	\$29,100,495	\$17,376,229	\$10,387,943	91
Real Estate	\$289,678,037	\$37,559,700	\$6,051,074	32
Hotels, Lodging Places, Amusements	\$27,878,923	\$14,576,865	\$9,562,740	212
Personal Services	\$65,216,346	\$40,045,013	\$31,155,691	506
Business Services	\$212,106,530	\$136,053,506	\$110,984,946	1,317
Eating & Drinking Places	\$143,836,073	\$84,281,925	\$44,842,414	1,949
Health Services	\$97,883,350	\$68,514,485	\$57,930,081	886
Miscellaneous Services	\$104,409,996	\$43,120,164	\$37,381,676	785
Households	\$4,639,340	\$4,639,340	\$4,540,579	262
<b>Total</b>	<b>\$3,352,229,694</b>	<b>\$1,630,736,880</b>	<b>\$1,144,940,815</b>	<b>18,868</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Pipeline Development and Operations and Other Direct Support Industries Associated with Activity in the Barnett Shale on Business Activity in Texas 2008**  
**Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$59,403,232	\$16,349,792	\$11,134,309	83
Forestry & Fishery Products	\$1,294,524	\$1,254,800	\$462,664	0
Coal Mining	\$7,038,098	\$2,025,907	\$2,134,563	0
Crude Petroleum & Natural Gas	\$47,638,018	\$10,304,785	\$4,753,988	0
Miscellaneous Mining	\$3,562,278	\$1,566,748	\$919,486	0
New Construction	\$1,168,343,011	\$531,101,861	\$437,661,292	6,297
Maintenance & Repair Construction	\$64,303,263	\$33,915,829	\$27,951,438	340
Food Products & Tobacco	\$126,170,530	\$32,733,466	\$16,724,830	218
Textile Mill Products	\$1,800,417	\$419,435	\$354,008	0
Apparel	\$29,803,262	\$16,609,164	\$8,417,911	165
Paper & Allied Products	\$19,975,160	\$8,784,771	\$3,971,198	0
Printing & Publishing	\$28,556,640	\$14,181,347	\$9,256,782	84
Chemicals & Petroleum Refining	\$136,659,914	\$21,221,782	\$9,964,798	83
Rubber & Leather Products	\$19,469,268	\$8,492,685	\$4,961,953	85
Lumber Products & Furniture	\$9,055,827	\$3,134,664	\$2,233,872	0
Stone, Clay, & Glass Products	\$31,738,038	\$16,021,488	\$8,380,524	85
Primary Metal	\$70,738,496	\$21,881,896	\$16,287,870	259
Fabricated Metal Products	\$163,129,893	\$63,626,792	\$41,075,435	689
Machinery, Except Electrical	\$17,703,902	\$7,292,797	\$5,208,473	82
Electric & Electronic Equipment	\$16,769,227	\$9,038,302	\$5,397,745	0
Motor Vehicles & Equipment	\$10,302,449	\$2,127,553	\$1,379,813	0
Transp. Equip., Exc. Motor Vehicles	\$5,303,109	\$2,177,791	\$1,421,873	0
Instruments & Related Products	\$4,575,231	\$1,974,500	\$1,503,657	0
Miscellaneous Manufacturing	\$8,178,401	\$3,170,883	\$2,187,138	0
Transportation	\$125,731,233	\$82,869,401	\$54,808,139	609
Communication	\$76,917,862	\$47,555,066	\$20,302,297	166
Electric, Gas, Water, Sanitary Services	\$158,854,926	\$35,786,346	\$15,614,904	0
Wholesale Trade	\$157,468,103	\$106,596,111	\$61,465,357	640
Retail Trade	\$363,940,016	\$301,535,311	\$180,311,545	4,685
Finance	\$55,192,524	\$29,871,026	\$17,393,122	76
Insurance	\$70,857,667	\$42,313,879	\$25,295,795	247
Real Estate	\$396,096,321	\$55,291,833	\$8,908,615	86
Hotels, Lodging Places, Amusements	\$38,276,085	\$19,977,497	\$13,107,640	250
Personal Services	\$74,344,002	\$45,706,747	\$35,560,856	579
Business Services	\$349,281,985	\$225,048,567	\$183,580,569	2,129
Eating & Drinking Places	\$164,158,035	\$96,186,175	\$51,176,929	2,227
Health Services	\$124,273,141	\$86,942,245	\$73,508,637	1,099
Miscellaneous Services	\$112,854,925	\$46,455,655	\$40,272,784	829
Households	\$5,569,491	\$5,569,491	\$5,452,657	321
<b>Total</b>	<b>\$4,325,328,502</b>	<b>\$2,057,114,391</b>	<b>\$1,410,505,467</b>	<b>22,413</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group

**The Impact of Pipeline Development and Operations and Other Direct Support Industries Associated with Activity in the Barnett Shale on Business Activity in the Barnett Shale Region 2009  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$53,276,745	\$14,675,192	\$9,994,158	82
Forestry & Fishery Products	\$560,714	\$537,874	\$199,638	0
Coal Mining	\$1,439,729	\$413,805	\$436,263	0
Crude Petroleum & Natural Gas	\$25,383,032	\$5,488,139	\$2,530,825	0
Miscellaneous Mining	\$2,621,308	\$1,154,048	\$677,466	0
New Construction	\$1,287,206,692	\$585,134,556	\$482,187,627	6,938
Maintenance & Repair Construction	\$59,800,722	\$31,617,023	\$26,055,009	321
Food Products & Tobacco	\$51,733,731	\$13,427,999	\$6,859,191	80
Textile Mill Products	\$226,416	\$52,617	\$44,692	0
Apparel	\$19,058,708	\$10,625,319	\$5,383,466	116
Paper & Allied Products	\$6,511,858	\$2,863,516	\$1,294,496	0
Printing & Publishing	\$19,959,874	\$9,898,025	\$6,460,563	65
Chemicals & Petroleum Refining	\$45,782,907	\$7,116,847	\$3,341,598	6
Rubber & Leather Products	\$13,619,247	\$5,943,111	\$3,474,316	60
Lumber Products & Furniture	\$7,767,660	\$2,687,112	\$1,916,815	0
Stone, Clay, & Glass Products	\$27,279,042	\$13,750,127	\$7,191,691	81
Primary Metal	\$31,408,106	\$9,721,771	\$7,236,899	116
Fabricated Metal Products	\$159,935,801	\$62,408,375	\$40,290,912	680
Machinery, Except Electrical	\$12,601,787	\$5,196,212	\$3,713,056	36
Electric & Electronic Equipment	\$7,065,605	\$3,811,279	\$2,277,613	0
Motor Vehicles & Equipment	\$6,175,812	\$1,270,442	\$826,164	0
Transp. Equip., Exc. Motor Vehicles	\$2,070,614	\$849,815	\$555,342	0
Instruments & Related Products	\$1,106,955	\$479,127	\$364,083	0
Miscellaneous Manufacturing	\$5,236,391	\$2,028,397	\$1,398,578	0
Transportation	\$115,839,864	\$76,251,698	\$50,431,024	503
Communication	\$38,959,301	\$24,132,719	\$10,302,591	33
Electric, Gas, Water, Sanitary Services	\$114,594,602	\$25,807,431	\$11,261,536	0
Wholesale Trade	\$96,819,727	\$65,539,913	\$37,791,101	348
Retail Trade	\$357,844,568	\$296,480,383	\$177,284,940	4,585
Finance	\$47,470,763	\$25,721,309	\$14,977,724	84
Insurance	\$32,061,091	\$19,144,034	\$11,444,781	101
Real Estate	\$319,149,003	\$41,380,910	\$6,666,692	36
Hotels, Lodging Places, Amusements	\$30,715,241	\$16,059,871	\$10,535,624	234
Personal Services	\$71,851,259	\$44,119,072	\$34,325,377	557
Business Services	\$233,685,606	\$149,895,178	\$122,276,219	1,450
Eating & Drinking Places	\$158,469,519	\$92,856,513	\$49,404,545	2,147
Health Services	\$107,841,706	\$75,484,942	\$63,823,712	976
Miscellaneous Services	\$115,032,353	\$47,507,079	\$41,184,775	865
Households	\$5,111,333	\$5,111,333	\$5,002,523	289
<b>Total</b>	<b>\$3,693,275,395</b>	<b>\$1,796,643,114</b>	<b>\$1,261,423,627</b>	<b>20,788</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Pipeline Development and Operations and Other Direct Support Industries Associated with Activity in the Barnett Shale on Business Activity in Texas 2009**  
**Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$65,446,737	\$18,013,170	\$12,267,080	92
Forestry & Fishery Products	\$1,426,225	\$1,382,460	\$509,734	0
Coal Mining	\$7,754,133	\$2,232,016	\$2,351,727	0
Crude Petroleum & Natural Gas	\$52,484,566	\$11,353,163	\$5,237,644	0
Miscellaneous Mining	\$3,924,693	\$1,726,144	\$1,013,032	0
New Construction	\$1,287,206,692	\$585,134,556	\$482,187,627	6,938
Maintenance & Repair Construction	\$70,845,282	\$37,366,323	\$30,795,133	375
Food Products & Tobacco	\$139,006,738	\$36,063,670	\$18,426,364	241
Textile Mill Products	\$1,983,586	\$462,107	\$390,024	0
Apparel	\$32,835,356	\$18,298,930	\$9,274,324	181
Paper & Allied Products	\$22,007,373	\$9,678,507	\$4,375,216	0
Printing & Publishing	\$31,461,906	\$15,624,115	\$10,198,539	92
Chemicals & Petroleum Refining	\$150,563,280	\$23,380,822	\$10,978,586	91
Rubber & Leather Products	\$21,450,012	\$9,356,705	\$5,466,767	93
Lumber Products & Furniture	\$9,977,139	\$3,453,576	\$2,461,139	0
Stone, Clay, & Glass Products	\$34,966,970	\$17,651,465	\$9,233,134	93
Primary Metal	\$77,935,216	\$24,108,094	\$17,944,948	285
Fabricated Metal Products	\$179,726,234	\$70,099,989	\$45,254,326	759
Machinery, Except Electrical	\$19,505,043	\$8,034,744	\$5,738,367	90
Electric & Electronic Equipment	\$18,475,278	\$9,957,831	\$5,946,895	0
Motor Vehicles & Equipment	\$11,350,589	\$2,344,003	\$1,520,191	0
Transp. Equip., Exc. Motor Vehicles	\$5,842,631	\$2,399,353	\$1,566,531	0
Instruments & Related Products	\$5,040,701	\$2,175,379	\$1,656,635	0
Miscellaneous Manufacturing	\$9,010,447	\$3,493,479	\$2,409,651	0
Transportation	\$138,522,748	\$91,300,283	\$60,384,153	671
Communication	\$84,743,253	\$52,393,174	\$22,367,791	183
Electric, Gas, Water, Sanitary Services	\$175,016,345	\$39,427,141	\$17,203,517	0
Wholesale Trade	\$173,488,431	\$117,440,877	\$67,718,657	706
Retail Trade	\$400,966,172	\$332,212,601	\$198,655,896	5,162
Finance	\$60,807,644	\$32,910,013	\$19,162,646	84
Insurance	\$78,066,511	\$46,618,765	\$27,869,312	272
Real Estate	\$436,393,962	\$60,917,057	\$9,814,951	95
Hotels, Lodging Places, Amusements	\$42,170,178	\$22,009,947	\$14,441,172	275
Personal Services	\$81,907,536	\$50,356,813	\$39,178,710	638
Business Services	\$384,816,877	\$247,944,327	\$202,257,500	2,346
Eating & Drinking Places	\$180,858,976	\$105,971,865	\$56,383,515	2,453
Health Services	\$136,916,314	\$95,787,486	\$80,987,183	1,211
Miscellaneous Services	\$124,336,443	\$51,181,912	\$44,370,015	913
Households	\$6,136,114	\$6,136,114	\$6,007,394	353
<b>Total</b>	<b>\$4,765,374,330</b>	<b>\$2,266,398,982</b>	<b>\$1,554,006,023</b>	<b>24,693</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Pipeline Development and Operations and Other Direct Support Industries Associated with Activity in the Barnett Shale on Business Activity in the Barnett Shale Region 2010  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$54,836,650	\$15,104,871	\$10,286,780	84
Forestry & Fishery Products	\$577,132	\$553,623	\$205,483	0
Coal Mining	\$1,481,883	\$425,921	\$449,036	0
Crude Petroleum & Natural Gas	\$26,126,229	\$5,648,827	\$2,604,926	0
Miscellaneous Mining	\$2,698,058	\$1,187,838	\$697,302	0
New Construction	\$1,324,895,176	\$602,266,874	\$496,305,733	7,141
Maintenance & Repair Construction	\$61,551,644	\$32,542,747	\$26,817,881	330
Food Products & Tobacco	\$53,248,457	\$13,821,161	\$7,060,023	83
Textile Mill Products	\$233,046	\$54,158	\$46,001	0
Apparel	\$19,616,734	\$10,936,421	\$5,541,090	119
Paper & Allied Products	\$6,702,520	\$2,947,358	\$1,332,398	0
Printing & Publishing	\$20,544,285	\$10,187,832	\$6,649,723	67
Chemicals & Petroleum Refining	\$47,123,398	\$7,325,224	\$3,439,437	6
Rubber & Leather Products	\$14,018,008	\$6,117,121	\$3,576,042	62
Lumber Products & Furniture	\$7,995,092	\$2,765,789	\$1,972,938	0
Stone, Clay, & Glass Products	\$28,077,752	\$14,152,721	\$7,402,259	84
Primary Metal	\$32,327,713	\$10,006,418	\$7,448,791	119
Fabricated Metal Products	\$164,618,606	\$64,235,647	\$41,470,601	700
Machinery, Except Electrical	\$12,970,759	\$5,348,354	\$3,821,772	37
Electric & Electronic Equipment	\$7,272,481	\$3,922,871	\$2,344,300	0
Motor Vehicles & Equipment	\$6,356,635	\$1,307,640	\$850,354	0
Transp. Equip., Exc. Motor Vehicles	\$2,131,240	\$874,697	\$571,602	0
Instruments & Related Products	\$1,139,366	\$493,155	\$374,743	0
Miscellaneous Manufacturing	\$5,389,709	\$2,087,787	\$1,439,528	0
Transportation	\$119,231,572	\$78,484,292	\$51,907,608	518
Communication	\$40,100,001	\$24,839,308	\$10,604,244	34
Electric, Gas, Water, Sanitary Services	\$117,949,850	\$26,563,054	\$11,591,265	0
Wholesale Trade	\$99,654,539	\$67,458,875	\$38,897,597	358
Retail Trade	\$368,321,999	\$305,161,115	\$182,475,715	4,719
Finance	\$48,860,672	\$26,474,410	\$15,416,261	86
Insurance	\$32,999,817	\$19,704,557	\$11,779,876	104
Real Estate	\$328,493,456	\$42,592,513	\$6,861,888	37
Hotels, Lodging Places, Amusements	\$31,614,561	\$16,530,092	\$10,844,100	241
Personal Services	\$73,955,012	\$45,410,846	\$35,330,399	573
Business Services	\$240,527,752	\$154,284,001	\$125,856,378	1,493
Eating & Drinking Places	\$163,109,393	\$95,575,285	\$50,851,075	2,210
Health Services	\$110,999,234	\$77,695,086	\$65,692,424	1,005
Miscellaneous Services	\$118,400,418	\$48,898,052	\$42,390,635	891
Households	\$5,260,989	\$5,260,989	\$5,148,994	298
<b>Total</b>	<b>\$3,801,411,837</b>	<b>\$1,849,247,529</b>	<b>\$1,298,357,202</b>	<b>21,397</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Impact of Pipeline Development and Operations and Other Direct Support Industries Associated with Activity in the Barnett Shale on Business Activity in Texas 2010  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$67,362,970	\$18,540,583	\$12,626,251	95
Forestry & Fishery Products	\$1,467,984	\$1,422,937	\$524,658	0
Coal Mining	\$7,981,169	\$2,297,368	\$2,420,583	0
Crude Petroleum & Natural Gas	\$54,021,276	\$11,685,575	\$5,390,998	0
Miscellaneous Mining	\$4,039,605	\$1,776,684	\$1,042,693	0
New Construction	\$1,324,895,176	\$602,266,874	\$496,305,733	7,141
Maintenance & Repair Construction	\$72,919,581	\$38,460,382	\$31,696,792	386
Food Products & Tobacco	\$143,076,755	\$37,119,588	\$18,965,874	248
Textile Mill Products	\$2,041,663	\$475,637	\$401,443	0
Apparel	\$33,796,751	\$18,834,710	\$9,545,870	187
Paper & Allied Products	\$22,651,733	\$9,961,887	\$4,503,319	0
Printing & Publishing	\$32,383,088	\$16,081,578	\$10,497,144	95
Chemicals & Petroleum Refining	\$154,971,664	\$24,065,396	\$11,300,031	94
Rubber & Leather Products	\$22,078,053	\$9,630,663	\$5,626,830	96
Lumber Products & Furniture	\$10,269,263	\$3,554,694	\$2,533,200	0
Stone, Clay, & Glass Products	\$35,990,777	\$18,168,288	\$9,503,473	96
Primary Metal	\$80,217,103	\$24,813,962	\$18,470,364	293
Fabricated Metal Products	\$184,988,489	\$72,152,466	\$46,579,340	781
Machinery, Except Electrical	\$20,076,137	\$8,269,996	\$5,906,383	93
Electric & Electronic Equipment	\$19,016,220	\$10,249,389	\$6,121,016	0
Motor Vehicles & Equipment	\$11,682,926	\$2,412,634	\$1,564,701	0
Transp. Equip., Exc. Motor Vehicles	\$6,013,699	\$2,469,605	\$1,612,397	0
Instruments & Related Products	\$5,188,290	\$2,239,073	\$1,705,140	0
Miscellaneous Manufacturing	\$9,274,266	\$3,595,766	\$2,480,204	0
Transportation	\$142,578,594	\$93,973,490	\$62,152,158	691
Communication	\$87,224,474	\$53,927,208	\$23,022,703	188
Electric, Gas, Water, Sanitary Services	\$180,140,698	\$40,581,539	\$17,707,224	0
Wholesale Trade	\$178,568,047	\$120,879,461	\$69,701,410	726
Retail Trade	\$412,706,172	\$341,939,546	\$204,472,397	5,313
Finance	\$62,588,048	\$33,873,595	\$19,723,714	86
Insurance	\$80,352,243	\$47,983,729	\$28,685,305	280
Real Estate	\$449,171,262	\$62,700,664	\$10,102,326	98
Hotels, Lodging Places, Amusements	\$43,404,891	\$22,654,383	\$14,863,999	283
Personal Services	\$84,305,730	\$51,831,224	\$40,325,834	657
Business Services	\$396,084,037	\$255,203,959	\$208,179,454	2,415
Eating & Drinking Places	\$186,154,397	\$109,074,645	\$58,034,383	2,525
Health Services	\$140,925,125	\$98,592,075	\$83,358,430	1,246
Miscellaneous Services	\$127,976,925	\$52,680,482	\$45,669,137	940
Households	\$6,315,775	\$6,315,775	\$6,183,286	364
<b>Total</b>	<b>\$4,904,901,056</b>	<b>\$2,332,757,510</b>	<b>\$1,599,506,199</b>	<b>25,416</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group

**The Impact of Pipeline Development and Operations and Other Direct Support Industries Associated with Activity in the Barnett Shale on Business Activity in the Barnett Shale Region 2011  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$56,442,228	\$15,547,131	\$10,587,969	86
Forestry & Fishery Products	\$594,030	\$569,833	\$211,499	0
Coal Mining	\$1,525,271	\$438,392	\$462,184	0
Crude Petroleum & Natural Gas	\$26,891,186	\$5,814,221	\$2,681,196	0
Miscellaneous Mining	\$2,777,055	\$1,222,617	\$717,719	0
New Construction	\$1,363,687,152	\$619,900,815	\$510,837,207	7,350
Maintenance & Repair Construction	\$63,353,831	\$33,495,575	\$27,603,089	340
Food Products & Tobacco	\$54,807,534	\$14,225,835	\$7,266,736	85
Textile Mill Products	\$239,869	\$55,743	\$47,348	0
Apparel	\$20,191,098	\$11,256,631	\$5,703,329	123
Paper & Allied Products	\$6,898,765	\$3,033,654	\$1,371,410	0
Printing & Publishing	\$21,145,807	\$10,486,125	\$6,844,422	69
Chemicals & Petroleum Refining	\$48,503,137	\$7,539,701	\$3,540,142	6
Rubber & Leather Products	\$14,428,446	\$6,296,226	\$3,680,746	64
Lumber Products & Furniture	\$8,229,182	\$2,846,769	\$2,030,704	0
Stone, Clay, & Glass Products	\$28,899,849	\$14,567,102	\$7,618,992	86
Primary Metal	\$33,274,245	\$10,299,398	\$7,666,886	123
Fabricated Metal Products	\$169,438,520	\$66,116,421	\$42,684,830	720
Machinery, Except Electrical	\$13,350,533	\$5,504,949	\$3,933,671	38
Electric & Electronic Equipment	\$7,485,414	\$4,037,729	\$2,412,939	0
Motor Vehicles & Equipment	\$6,542,753	\$1,345,926	\$875,252	0
Transp. Equip., Exc. Motor Vehicles	\$2,193,641	\$900,308	\$588,338	0
Instruments & Related Products	\$1,172,726	\$507,594	\$385,715	0
Miscellaneous Manufacturing	\$5,547,515	\$2,148,916	\$1,481,676	0
Transportation	\$122,722,587	\$80,782,256	\$53,427,426	533
Communication	\$41,274,101	\$25,566,585	\$10,914,728	35
Electric, Gas, Water, Sanitary Services	\$121,403,336	\$27,340,801	\$11,930,649	0
Wholesale Trade	\$102,572,352	\$69,434,022	\$40,036,491	369
Retail Trade	\$379,106,202	\$314,096,013	\$187,818,473	4,857
Finance	\$50,291,278	\$27,249,562	\$15,867,638	89
Insurance	\$33,966,027	\$20,281,492	\$12,124,782	107
Real Estate	\$338,111,508	\$43,839,591	\$7,062,799	38
Hotels, Lodging Places, Amusements	\$32,540,212	\$17,014,081	\$11,161,607	248
Personal Services	\$76,120,362	\$46,740,443	\$36,364,848	590
Business Services	\$247,570,231	\$158,801,325	\$129,541,362	1,537
Eating & Drinking Places	\$167,885,118	\$98,373,661	\$52,339,958	2,275
Health Services	\$114,249,211	\$79,969,942	\$67,615,851	1,034
Miscellaneous Services	\$121,867,097	\$50,329,751	\$43,631,803	917
Households	\$5,415,027	\$5,415,027	\$5,299,752	306
<b>Total</b>	<b>\$3,912,714,436</b>	<b>\$1,903,392,164</b>	<b>\$1,336,372,165</b>	<b>22,023</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group





**The Impact of Pipeline Development and Operations and Other Direct Support Industries Associated with Activity in the Barnett Shale on Business Activity in Texas 2011  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$69,335,310	\$19,083,438	\$12,995,939	97
Forestry & Fishery Products	\$1,510,965	\$1,464,600	\$540,020	0
Coal Mining	\$8,214,851	\$2,364,634	\$2,491,456	0
Crude Petroleum & Natural Gas	\$55,602,980	\$12,027,721	\$5,548,843	0
Miscellaneous Mining	\$4,157,882	\$1,828,704	\$1,073,222	0
New Construction	\$1,363,687,152	\$619,900,815	\$510,837,207	7,350
Maintenance & Repair Construction	\$75,054,613	\$39,586,474	\$32,624,851	397
Food Products & Tobacco	\$147,265,939	\$38,206,423	\$19,521,182	255
Textile Mill Products	\$2,101,442	\$489,564	\$413,197	0
Apparel	\$34,786,296	\$19,386,177	\$9,825,366	192
Paper & Allied Products	\$23,314,959	\$10,253,564	\$4,635,173	0
Printing & Publishing	\$33,331,241	\$16,552,435	\$10,804,493	98
Chemicals & Petroleum Refining	\$159,509,122	\$24,770,013	\$11,630,888	97
Rubber & Leather Products	\$22,724,483	\$9,912,642	\$5,791,579	99
Lumber Products & Furniture	\$10,569,939	\$3,658,773	\$2,607,370	0
Stone, Clay, & Glass Products	\$37,044,561	\$18,700,242	\$9,781,728	99
Primary Metal	\$82,565,802	\$25,540,497	\$19,011,163	302
Fabricated Metal Products	\$190,404,819	\$74,265,039	\$47,943,149	804
Machinery, Except Electrical	\$20,663,951	\$8,512,135	\$6,079,317	96
Electric & Electronic Equipment	\$19,573,002	\$10,549,484	\$6,300,235	0
Motor Vehicles & Equipment	\$12,024,993	\$2,483,274	\$1,610,515	0
Transp. Equip., Exc. Motor Vehicles	\$6,189,776	\$2,541,913	\$1,659,607	0
Instruments & Related Products	\$5,340,199	\$2,304,631	\$1,755,065	0
Miscellaneous Manufacturing	\$9,545,810	\$3,701,047	\$2,552,822	0
Transportation	\$146,753,193	\$96,724,966	\$63,971,928	711
Communication	\$89,778,344	\$55,506,158	\$23,696,792	193
Electric, Gas, Water, Sanitary Services	\$185,415,087	\$41,769,737	\$18,225,679	0
Wholesale Trade	\$183,796,391	\$124,418,725	\$71,742,217	747
Retail Trade	\$424,789,912	\$351,951,290	\$210,459,202	5,469
Finance	\$64,420,581	\$34,865,389	\$20,301,211	89
Insurance	\$82,704,898	\$49,388,658	\$29,525,191	288
Real Estate	\$462,322,673	\$64,536,494	\$10,398,115	101
Hotels, Lodging Places, Amusements	\$44,675,755	\$23,317,687	\$15,299,206	292
Personal Services	\$86,774,141	\$53,348,805	\$41,506,546	676
Business Services	\$407,681,093	\$262,676,147	\$214,274,799	2,485
Eating & Drinking Places	\$191,604,863	\$112,268,272	\$59,733,588	2,599
Health Services	\$145,051,311	\$101,478,779	\$85,799,105	1,282
Miscellaneous Services	\$131,723,997	\$54,222,929	\$47,006,296	968
Households	\$6,500,697	\$6,500,697	\$6,364,328	374
<b>Total</b>	<b>\$5,048,513,024</b>	<b>\$2,401,058,969</b>	<b>\$1,646,338,588</b>	<b>26,160</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



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# The Total Annual Impact of Exploration, Drilling and Operations in the Barnett Shale



**The Total Annual Impact of Exploration, Drilling, and Operations in  
the Barnett Shale on Business Activity in the Barnett Shale Region 2001  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$7,123,224	\$1,961,977	\$1,336,203	15
Forestry & Fishery Products	\$83,589	\$93,973	\$34,867	0
Coal Mining	\$321,731	\$93,201	\$98,161	0
Crude Petroleum & Natural Gas	\$278,904,284	\$61,123,607	\$28,190,077	141
Miscellaneous Mining	\$266,883	\$114,427	\$67,290	0
New Construction	\$24,271,499	\$11,033,265	\$9,092,103	131
Maintenance & Repair Construction	\$24,997,419	\$13,371,477	\$11,018,912	144
Food Products & Tobacco	\$7,797,794	\$2,008,326	\$1,025,909	12
Textile Mill Products	\$25,152	\$6,960	\$5,873	0
Apparel	\$2,335,919	\$1,289,491	\$653,278	11
Paper & Allied Products	\$1,431,798	\$644,456	\$291,354	2
Printing & Publishing	\$3,097,058	\$1,558,956	\$1,017,541	10
Chemicals & Petroleum Refining	\$8,273,300	\$1,374,642	\$645,409	3
Rubber & Leather Products	\$1,801,469	\$766,825	\$448,269	6
Lumber Products & Furniture	\$950,327	\$317,315	\$226,273	2
Stone, Clay, & Glass Products	\$2,102,856	\$1,086,349	\$568,068	6
Primary Metal	\$1,560,871	\$471,581	\$350,999	5
Fabricated Metal Products	\$7,344,038	\$2,777,969	\$1,793,516	27
Machinery, Except Electrical	\$2,834,135	\$1,190,483	\$850,471	8
Electric & Electronic Equipment	\$1,515,396	\$825,457	\$493,491	3
Motor Vehicles & Equipment	\$1,077,950	\$247,890	\$161,051	1
Transp. Equip., Exc. Motor Vehicles	\$410,261	\$172,924	\$112,862	1
Instruments & Related Products	\$195,488	\$83,024	\$63,138	0
Miscellaneous Manufacturing	\$712,347	\$271,561	\$187,346	1
Transportation	\$14,232,031	\$9,477,508	\$6,268,108	67
Communication	\$8,156,827	\$5,049,008	\$2,155,633	13
Electric, Gas, Water, Sanitary Services	\$23,690,726	\$5,311,625	\$2,317,848	4
Wholesale Trade	\$13,094,940	\$8,855,001	\$5,105,822	45
Retail Trade	\$64,900,694	\$53,798,360	\$32,169,820	846
Finance	\$7,331,619	\$4,012,984	\$2,336,793	15
Insurance	\$5,029,937	\$3,017,705	\$1,804,068	13
Real Estate	\$72,748,453	\$12,933,169	\$2,083,815	15
Hotels, Lodging Places, Amusements	\$5,312,353	\$2,791,163	\$1,831,067	37
Personal Services	\$13,898,373	\$8,611,794	\$6,700,153	101
Business Services	\$17,342,624	\$10,258,936	\$8,368,707	86
Eating & Drinking Places	\$30,782,946	\$18,042,103	\$9,599,448	436
Health Services	\$18,136,616	\$12,778,916	\$10,804,778	170
Miscellaneous Services	\$16,722,941	\$6,756,433	\$5,857,200	123
Households	\$561,752	\$561,752	\$549,862	27
<b>Total</b>	<b>\$691,377,621</b>	<b>\$265,142,593</b>	<b>\$156,685,584</b>	<b>2,529</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Total Annual Impact of Exploration, Drilling, and Operations in  
the Barnett Shale on Business Activity in Texas 2001  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$9,765,793	\$2,686,150	\$1,829,274	21
Forestry & Fishery Products	\$223,785	\$248,011	\$91,827	1
Coal Mining	\$1,313,245	\$380,599	\$400,729	1
Crude Petroleum & Natural Gas	\$300,071,266	\$65,759,752	\$30,328,461	150
Miscellaneous Mining	\$394,738	\$169,206	\$99,522	1
New Construction	\$24,271,499	\$11,033,265	\$9,092,103	131
Maintenance & Repair Construction	\$27,693,265	\$14,784,245	\$12,183,120	159
Food Products & Tobacco	\$21,690,090	\$5,585,636	\$2,853,486	33
Textile Mill Products	\$271,990	\$75,108	\$63,740	1
Apparel	\$4,293,197	\$2,369,600	\$1,200,605	20
Paper & Allied Products	\$3,164,203	\$1,422,484	\$643,048	4
Printing & Publishing	\$4,725,852	\$2,379,878	\$1,553,207	15
Chemicals & Petroleum Refining	\$22,990,058	\$3,807,145	\$1,787,788	10
Rubber & Leather Products	\$2,828,554	\$1,205,281	\$704,418	8
Lumber Products & Furniture	\$1,248,005	\$418,249	\$298,415	3
Stone, Clay, & Glass Products	\$2,552,355	\$1,322,241	\$691,355	7
Primary Metal	\$3,953,224	\$1,190,443	\$886,021	12
Fabricated Metal Products	\$8,110,967	\$3,065,692	\$1,979,118	30
Machinery, Except Electrical	\$4,802,207	\$2,014,099	\$1,438,922	14
Electric & Electronic Equipment	\$2,557,633	\$1,389,749	\$830,525	4
Motor Vehicles & Equipment	\$1,492,194	\$341,210	\$221,578	1
Transp. Equip., Exc. Motor Vehicles	\$736,304	\$309,754	\$202,394	1
Instruments & Related Products	\$609,646	\$259,063	\$196,954	1
Miscellaneous Manufacturing	\$1,232,592	\$470,823	\$324,807	2
Transportation	\$17,041,711	\$11,375,132	\$7,523,144	80
Communication	\$13,943,386	\$8,614,977	\$3,677,995	23
Electric, Gas, Water, Sanitary Services	\$37,243,633	\$8,350,016	\$3,643,632	7
Wholesale Trade	\$21,048,960	\$14,234,616	\$8,207,833	73
Retail Trade	\$74,739,813	\$61,950,791	\$37,044,683	971
Finance	\$9,479,464	\$5,172,409	\$3,011,882	18
Insurance	\$10,795,968	\$6,475,279	\$3,870,955	29
Real Estate	\$101,160,435	\$19,458,181	\$3,135,114	22
Hotels, Lodging Places, Amusements	\$6,792,127	\$3,563,565	\$2,337,806	45
Personal Services	\$16,171,022	\$10,024,348	\$7,799,070	124
Business Services	\$28,356,497	\$17,068,194	\$13,923,343	140
Eating & Drinking Places	\$35,069,853	\$20,552,460	\$10,935,010	493
Health Services	\$22,950,336	\$16,157,321	\$13,661,347	214
Miscellaneous Services	\$18,785,277	\$7,566,355	\$6,559,439	139
Households	\$783,862	\$783,862	\$767,249	40
<b>Total</b>	<b>\$865,355,007</b>	<b>\$334,035,190</b>	<b>\$195,999,921</b>	<b>3,045</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Total Annual Impact of Exploration, Drilling, and Operations in  
the Barnett Shale on Business Activity in the Barnett Shale Region 2002  
Detailed Industrial Category**

Category	Total Expenditures (2011 Dollars)	Gross Product (2011 Dollars)	Personal Income (2011 Dollars)	Employment (Jobs)
Agricultural Products & Services	\$12,448,899	\$3,441,596	\$2,343,907	31
Forestry & Fishery Products	\$147,914	\$172,448	\$63,975	1
Coal Mining	\$599,887	\$174,077	\$183,371	1
Crude Petroleum & Natural Gas	\$692,776,038	\$151,829,697	\$70,023,606	351
Miscellaneous Mining	\$531,961	\$227,171	\$133,578	1
New Construction	\$20,011,562	\$9,096,796	\$7,496,331	108
Maintenance & Repair Construction	\$54,807,599	\$29,455,293	\$24,272,971	333
Food Products & Tobacco	\$14,172,925	\$3,648,160	\$1,863,609	26
Textile Mill Products	\$43,594	\$13,099	\$11,062	0
Apparel	\$4,131,210	\$2,276,060	\$1,153,167	23
Paper & Allied Products	\$2,503,534	\$1,135,499	\$513,350	5
Printing & Publishing	\$5,562,322	\$2,800,028	\$1,827,611	23
Chemicals & Petroleum Refining	\$15,780,026	\$2,687,357	\$1,261,792	7
Rubber & Leather Products	\$3,262,810	\$1,380,722	\$807,148	12
Lumber Products & Furniture	\$1,738,634	\$571,221	\$407,296	6
Stone, Clay, & Glass Products	\$3,834,262	\$1,970,802	\$1,030,618	13
Primary Metal	\$2,737,384	\$823,960	\$613,285	9
Fabricated Metal Products	\$12,127,556	\$4,549,273	\$2,937,084	46
Machinery, Except Electrical	\$6,206,776	\$2,619,055	\$1,871,039	18
Electric & Electronic Equipment	\$3,059,605	\$1,676,743	\$1,002,423	7
Motor Vehicles & Equipment	\$1,987,994	\$464,374	\$301,687	3
Transp. Equip., Exc. Motor Vehicles	\$787,239	\$331,409	\$216,397	2
Instruments & Related Products	\$365,079	\$156,049	\$118,651	1
Miscellaneous Manufacturing	\$1,292,253	\$487,440	\$336,253	3
Transportation	\$25,584,708	\$16,925,061	\$11,193,650	134
Communication	\$13,677,735	\$8,464,418	\$3,613,793	25
Electric, Gas, Water, Sanitary Services	\$41,779,736	\$9,360,608	\$4,084,717	11
Wholesale Trade	\$24,228,055	\$16,378,583	\$9,443,975	93
Retail Trade	\$104,923,496	\$86,992,936	\$52,019,146	1,377
Finance	\$14,247,772	\$7,855,559	\$4,574,338	34
Insurance	\$9,252,309	\$5,557,033	\$3,322,175	30
Real Estate	\$133,857,616	\$27,888,156	\$4,493,394	36
Hotels, Lodging Places, Amusements	\$8,915,189	\$4,679,102	\$3,069,616	67
Personal Services	\$22,319,914	\$13,818,201	\$10,750,827	168
Business Services	\$29,215,096	\$17,086,002	\$13,937,852	152
Eating & Drinking Places	\$51,956,469	\$30,462,176	\$16,207,609	741
Health Services	\$29,921,290	\$21,040,020	\$17,789,634	286
Miscellaneous Services	\$29,119,315	\$11,850,209	\$10,273,062	228
Households	\$1,030,397	\$1,030,397	\$1,008,594	58
<b>Total</b>	<b>\$1,400,946,159</b>	<b>\$501,376,790</b>	<b>\$286,572,596</b>	<b>4,469</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group

**The Total Annual Impact of Exploration, Drilling, and Operations in  
the Barnett Shale on Business Activity in Texas 2002  
Detailed Industrial Category**

Category	Total Expenditures (2011 Dollars)	Gross Product (2011 Dollars)	Personal Income (2011 Dollars)	Employment (Jobs)
Agricultural Products & Services	\$16,857,941	\$4,653,548	\$3,169,160	42
Forestry & Fishery Products	\$375,986	\$431,052	\$159,704	1
Coal Mining	\$2,296,052	\$666,290	\$701,713	3
Crude Petroleum & Natural Gas	\$742,401,337	\$162,702,842	\$75,038,514	375
Miscellaneous Mining	\$765,906	\$327,088	\$192,353	2
New Construction	\$20,011,562	\$9,096,796	\$7,496,331	108
Maintenance & Repair Construction	\$59,706,892	\$32,041,044	\$26,403,768	361
Food Products & Tobacco	\$38,598,347	\$9,934,805	\$5,075,243	68
Textile Mill Products	\$469,511	\$139,618	\$118,363	2
Apparel	\$7,645,883	\$4,212,433	\$2,134,359	43
Paper & Allied Products	\$5,445,172	\$2,467,009	\$1,115,263	11
Printing & Publishing	\$8,327,226	\$4,193,482	\$2,736,944	33
Chemicals & Petroleum Refining	\$43,366,801	\$7,360,910	\$3,456,508	22
Rubber & Leather Products	\$5,039,056	\$2,134,844	\$1,247,820	18
Lumber Products & Furniture	\$2,244,323	\$740,340	\$528,101	7
Stone, Clay, & Glass Products	\$4,544,456	\$2,342,420	\$1,224,865	15
Primary Metal	\$6,824,376	\$2,049,063	\$1,525,120	22
Fabricated Metal Products	\$13,102,613	\$4,911,668	\$3,170,877	50
Machinery, Except Electrical	\$10,453,003	\$4,405,797	\$3,147,585	32
Electric & Electronic Equipment	\$4,918,143	\$2,689,498	\$1,607,542	10
Motor Vehicles & Equipment	\$2,657,238	\$618,054	\$401,433	4
Transp. Equip., Exc. Motor Vehicles	\$1,344,986	\$565,843	\$369,735	2
Instruments & Related Products	\$1,114,453	\$476,250	\$362,026	3
Miscellaneous Manufacturing	\$2,223,544	\$840,522	\$579,810	6
Transportation	\$29,821,321	\$19,776,457	\$13,079,477	155
Communication	\$23,434,297	\$14,477,478	\$6,180,886	43
Electric, Gas, Water, Sanitary Services	\$66,248,033	\$14,841,090	\$6,476,161	19
Wholesale Trade	\$38,100,687	\$25,758,401	\$14,852,544	145
Retail Trade	\$118,494,123	\$98,236,692	\$58,742,486	1,550
Finance	\$17,961,866	\$9,875,092	\$5,750,264	41
Insurance	\$19,297,585	\$11,587,241	\$6,927,052	63
Real Estate	\$186,950,425	\$41,529,921	\$6,691,344	53
Hotels, Lodging Places, Amusements	\$11,223,725	\$5,883,465	\$3,859,720	80
Personal Services	\$25,521,533	\$15,808,217	\$12,299,008	199
Business Services	\$47,062,328	\$27,967,033	\$22,814,028	245
Eating & Drinking Places	\$57,780,593	\$33,872,230	\$18,021,831	820
Health Services	\$37,609,837	\$26,424,182	\$22,342,121	358
Miscellaneous Services	\$31,979,482	\$12,971,861	\$11,245,569	251
Households	\$1,412,549	\$1,412,549	\$1,382,618	81
<b>Total</b>	<b>\$1,713,633,194</b>	<b>\$620,423,124</b>	<b>\$352,628,246</b>	<b>5,342</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Total Annual Impact of Exploration, Drilling, and Operations in  
the Barnett Shale on Business Activity in the Barnett Shale Region 2003  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$19,402,590	\$5,340,537	\$3,637,157	39
Forestry & Fishery Products	\$225,957	\$250,547	\$92,963	0
Coal Mining	\$847,568	\$245,383	\$258,441	1
Crude Petroleum & Natural Gas	\$662,878,762	\$145,271,601	\$66,998,925	334
Miscellaneous Mining	\$720,101	\$309,568	\$182,028	1
New Construction	\$93,190,569	\$42,362,289	\$34,909,187	502
Maintenance & Repair Construction	\$62,554,254	\$33,415,127	\$27,536,110	355
Food Products & Tobacco	\$20,962,050	\$5,401,326	\$2,759,137	33
Textile Mill Products	\$69,332	\$18,705	\$15,785	0
Apparel	\$6,378,621	\$3,524,400	\$1,785,510	29
Paper & Allied Products	\$3,820,958	\$1,716,106	\$775,839	5
Printing & Publishing	\$8,333,422	\$4,191,930	\$2,736,100	25
Chemicals & Petroleum Refining	\$21,859,125	\$3,604,251	\$1,692,223	7
Rubber & Leather Products	\$4,877,227	\$2,081,115	\$1,216,575	15
Lumber Products & Furniture	\$2,578,879	\$865,481	\$617,183	5
Stone, Clay, & Glass Products	\$5,899,330	\$3,044,047	\$1,591,790	17
Primary Metal	\$4,618,871	\$1,400,718	\$1,042,573	15
Fabricated Metal Products	\$22,173,237	\$8,433,912	\$5,445,098	83
Machinery, Except Electrical	\$7,203,398	\$3,020,608	\$2,157,911	20
Electric & Electronic Equipment	\$3,931,173	\$2,137,789	\$1,278,039	6
Motor Vehicles & Equipment	\$2,871,307	\$655,448	\$425,855	3
Transp. Equip., Exc. Motor Vehicles	\$1,078,878	\$454,431	\$296,577	1
Instruments & Related Products	\$519,181	\$220,382	\$167,597	1
Miscellaneous Manufacturing	\$1,925,206	\$736,001	\$507,747	3
Transportation	\$38,740,293	\$25,813,449	\$17,072,173	177
Communication	\$21,968,218	\$13,599,031	\$5,805,988	34
Electric, Gas, Water, Sanitary Services	\$63,249,650	\$14,185,056	\$6,189,966	11
Wholesale Trade	\$35,267,215	\$23,850,889	\$13,752,502	119
Retail Trade	\$176,796,226	\$146,544,328	\$87,629,135	2,301
Finance	\$19,425,676	\$10,611,642	\$6,179,250	37
Insurance	\$13,465,739	\$8,075,315	\$4,827,638	35
Real Estate	\$192,034,487	\$32,692,748	\$5,267,498	36
Hotels, Lodging Places, Amusements	\$14,405,510	\$7,568,757	\$4,965,273	101
Personal Services	\$37,813,271	\$23,425,896	\$18,225,833	273
Business Services	\$49,498,018	\$29,554,436	\$24,108,972	248
Eating & Drinking Places	\$83,024,264	\$48,657,799	\$25,888,780	1,173
Health Services	\$49,382,988	\$34,797,475	\$29,421,835	461
Miscellaneous Services	\$45,392,649	\$18,334,772	\$15,894,546	329
Households	\$1,533,401	\$1,533,401	\$1,500,933	73
<b>Total</b>	<b>\$1,800,917,600</b>	<b>\$707,946,697</b>	<b>\$424,856,675</b>	<b>6,909</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group

**The Total Annual Impact of Exploration, Drilling, and Operations in  
the Barnett Shale on Business Activity in Texas 2003  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$26,517,443	\$7,289,308	\$4,964,013	54
Forestry & Fishery Products	\$609,197	\$667,360	\$247,024	1
Coal Mining	\$3,538,036	\$1,024,851	\$1,079,032	3
Crude Petroleum & Natural Gas	\$714,495,174	\$156,574,579	\$72,212,430	357
Miscellaneous Mining	\$1,071,894	\$460,639	\$270,902	2
New Construction	\$93,190,569	\$42,362,289	\$34,909,187	502
Maintenance & Repair Construction	\$69,673,131	\$37,139,904	\$30,605,607	394
Food Products & Tobacco	\$58,449,223	\$15,058,285	\$7,692,767	87
Textile Mill Products	\$741,563	\$200,348	\$170,020	2
Apparel	\$11,667,139	\$6,445,061	\$3,265,556	52
Paper & Allied Products	\$8,611,725	\$3,862,004	\$1,745,849	10
Printing & Publishing	\$12,780,393	\$6,431,923	\$4,197,738	37
Chemicals & Petroleum Refining	\$61,317,195	\$10,074,175	\$4,730,718	26
Rubber & Leather Products	\$7,682,952	\$3,281,360	\$1,917,701	23
Lumber Products & Furniture	\$3,393,513	\$1,142,689	\$815,273	7
Stone, Clay, & Glass Products	\$7,226,164	\$3,738,162	\$1,954,602	20
Primary Metal	\$11,698,778	\$3,536,559	\$2,632,204	37
Fabricated Metal Products	\$24,629,229	\$9,361,282	\$6,043,344	91
Machinery, Except Electrical	\$12,189,016	\$5,103,327	\$3,645,915	35
Electric & Electronic Equipment	\$6,827,332	\$3,703,421	\$2,213,040	9
Motor Vehicles & Equipment	\$4,054,077	\$919,346	\$596,955	3
Transp. Equip., Exc. Motor Vehicles	\$1,995,388	\$838,331	\$547,741	2
Instruments & Related Products	\$1,655,717	\$703,450	\$534,867	3
Miscellaneous Manufacturing	\$3,333,822	\$1,276,916	\$880,910	6
Transportation	\$46,615,600	\$31,130,076	\$20,588,453	215
Communication	\$37,877,842	\$23,404,044	\$9,991,885	61
Electric, Gas, Water, Sanitary Services	\$99,176,341	\$22,242,170	\$9,705,606	18
Wholesale Trade	\$57,262,836	\$38,729,059	\$22,331,618	196
Retail Trade	\$204,052,208	\$169,128,100	\$101,133,515	2,647
Finance	\$25,236,158	\$13,743,845	\$8,002,989	44
Insurance	\$29,234,519	\$17,527,016	\$10,477,708	75
Real Estate	\$266,664,239	\$49,283,014	\$7,940,504	56
Hotels, Lodging Places, Amusements	\$18,522,101	\$9,717,137	\$6,374,775	120
Personal Services	\$44,091,684	\$27,327,957	\$21,261,503	336
Business Services	\$81,184,231	\$49,274,053	\$40,195,162	405
Eating & Drinking Places	\$94,992,326	\$55,666,358	\$29,617,503	1,332
Health Services	\$62,570,095	\$44,053,999	\$37,248,523	579
Miscellaneous Services	\$51,106,196	\$20,579,443	\$17,840,764	374
Households	\$2,128,168	\$2,128,168	\$2,083,089	106
<b>Total</b>	<b>\$2,268,063,218</b>	<b>\$895,130,007</b>	<b>\$532,666,995</b>	<b>8,325</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Total Annual Impact of Exploration, Drilling, and Operations in  
the Barnett Shale on Business Activity in the Barnett Shale Region 2004  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$36,499,083	\$10,075,312	\$6,861,784	83
Forestry & Fishery Products	\$428,477	\$488,100	\$181,088	1
Coal Mining	\$1,668,810	\$483,798	\$509,616	2
Crude Petroleum & Natural Gas	\$1,690,108,637	\$370,400,450	\$170,828,011	855
Miscellaneous Mining	\$1,510,772	\$647,577	\$380,738	3
New Construction	\$137,056,438	\$62,302,704	\$51,341,342	739
Maintenance & Repair Construction	\$141,493,565	\$75,909,583	\$62,554,180	844
Food Products & Tobacco	\$40,596,167	\$10,456,796	\$5,341,660	71
Textile Mill Products	\$130,036	\$37,318	\$31,518	0
Apparel	\$12,128,345	\$6,692,261	\$3,390,570	65
Paper & Allied Products	\$7,142,478	\$3,226,749	\$1,458,786	12
Printing & Publishing	\$15,980,014	\$8,037,082	\$5,245,884	59
Chemicals & Petroleum Refining	\$43,938,734	\$7,391,563	\$3,470,512	18
Rubber & Leather Products	\$9,436,646	\$4,009,504	\$2,343,889	33
Lumber Products & Furniture	\$5,035,649	\$1,669,576	\$1,190,524	13
Stone, Clay, & Glass Products	\$11,591,890	\$5,955,035	\$3,114,147	38
Primary Metal	\$8,936,797	\$2,705,561	\$2,013,817	29
Fabricated Metal Products	\$41,307,991	\$15,648,216	\$10,102,723	159
Machinery, Except Electrical	\$16,301,802	\$6,863,742	\$4,903,457	47
Electric & Electronic Equipment	\$8,280,886	\$4,526,595	\$2,706,135	16
Motor Vehicles & Equipment	\$5,616,364	\$1,297,103	\$842,730	7
Transp. Equip., Exc. Motor Vehicles	\$2,177,755	\$916,133	\$598,131	4
Instruments & Related Products	\$1,025,849	\$437,840	\$332,918	2
Miscellaneous Manufacturing	\$3,728,102	\$1,413,695	\$975,208	8
Transportation	\$74,602,537	\$49,442,566	\$32,699,661	372
Communication	\$39,759,683	\$24,608,263	\$10,506,228	68
Electric, Gas, Water, Sanitary Services	\$119,119,865	\$26,701,197	\$11,651,671	27
Wholesale Trade	\$69,381,917	\$46,911,990	\$27,049,686	257
Retail Trade	\$311,794,362	\$258,481,735	\$154,564,247	4,078
Finance	\$39,719,155	\$21,827,337	\$12,710,206	88
Insurance	\$26,316,810	\$15,795,140	\$9,442,816	81
Real Estate	\$373,936,563	\$72,879,260	\$11,742,412	90
Hotels, Lodging Places, Amusements	\$26,156,774	\$13,730,625	\$9,007,635	192
Personal Services	\$66,287,030	\$41,033,855	\$31,925,146	493
Business Services	\$91,819,506	\$54,519,205	\$44,473,878	480
Eating & Drinking Places	\$151,171,928	\$88,619,448	\$47,150,606	2,146
Health Services	\$88,542,482	\$62,289,405	\$52,666,620	839
Miscellaneous Services	\$85,032,793	\$34,551,872	\$29,953,344	649
Households	\$3,005,576	\$3,005,576	\$2,941,944	161
<b>Total</b>	<b>\$3,808,768,267</b>	<b>\$1,415,989,765</b>	<b>\$829,205,466</b>	<b>13,131</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group

**The Total Annual Impact of Exploration, Drilling, and Operations in  
the Barnett Shale on Business Activity in Texas 2004  
Detailed Industrial Category**

Category	Total Expenditures (2011 Dollars)	Gross Product (2011 Dollars)	Personal Income (2011 Dollars)	Employment (Jobs)
Agricultural Products & Services	\$49,320,405	\$13,595,444	\$9,258,675	113
Forestry & Fishery Products	\$1,108,799	\$1,244,563	\$460,889	3
Coal Mining	\$6,634,018	\$1,923,424	\$2,025,548	6
Crude Petroleum & Natural Gas	\$1,814,416,891	\$397,630,730	\$183,387,412	913
Miscellaneous Mining	\$2,200,391	\$943,130	\$554,565	4
New Construction	\$137,056,438	\$62,302,704	\$51,341,342	739
Maintenance & Repair Construction	\$155,207,718	\$83,126,502	\$68,501,439	922
Food Products & Tobacco	\$111,257,320	\$28,654,683	\$14,638,589	187
Textile Mill Products	\$1,381,146	\$394,732	\$334,673	4
Apparel	\$22,280,675	\$12,292,549	\$6,228,475	118
Paper & Allied Products	\$15,988,242	\$7,210,789	\$3,259,754	27
Printing & Publishing	\$24,151,996	\$12,152,363	\$7,931,389	87
Chemicals & Petroleum Refining	\$122,348,320	\$20,500,424	\$9,626,564	59
Rubber & Leather Products	\$14,673,736	\$6,241,273	\$3,647,807	50
Lumber Products & Furniture	\$6,534,833	\$2,174,633	\$1,551,223	17
Stone, Clay, & Glass Products	\$13,966,150	\$7,192,907	\$3,761,265	44
Primary Metal	\$22,369,914	\$6,755,784	\$5,028,349	72
Fabricated Metal Products	\$45,259,009	\$17,137,036	\$11,063,239	174
Machinery, Except Electrical	\$27,424,562	\$11,533,092	\$8,239,394	83
Electric & Electronic Equipment	\$13,854,716	\$7,554,264	\$4,514,783	24
Motor Vehicles & Equipment	\$7,740,789	\$1,776,449	\$1,153,647	9
Transp. Equip., Exc. Motor Vehicles	\$3,889,722	\$1,633,663	\$1,067,404	6
Instruments & Related Products	\$3,231,555	\$1,379,431	\$1,048,772	6
Miscellaneous Manufacturing	\$6,426,776	\$2,441,949	\$1,684,538	15
Transportation	\$87,904,842	\$58,396,775	\$38,621,733	439
Communication	\$68,906,789	\$42,573,332	\$18,175,847	123
Electric, Gas, Water, Sanitary Services	\$188,012,324	\$42,140,770	\$18,388,715	45
Wholesale Trade	\$110,891,803	\$74,984,096	\$43,236,635	411
Retail Trade	\$354,478,052	\$293,847,555	\$175,711,906	4,622
Finance	\$50,528,245	\$27,687,143	\$16,122,159	107
Insurance	\$55,941,084	\$33,565,445	\$20,065,857	171
Real Estate	\$521,049,498	\$108,840,146	\$17,536,421	135
Hotels, Lodging Places, Amusements	\$33,274,132	\$17,443,237	\$11,443,364	230
Personal Services	\$76,267,333	\$47,236,585	\$36,750,711	591
Business Services	\$149,029,614	\$89,838,542	\$73,285,446	778
Eating & Drinking Places	\$169,783,375	\$99,517,444	\$52,948,631	2,396
Health Services	\$111,623,814	\$78,463,062	\$66,341,869	1,051
Miscellaneous Services	\$94,019,249	\$38,079,241	\$33,011,658	720
Households	\$4,103,438	\$4,103,438	\$4,016,545	226
<b>Total</b>	<b>\$4,704,537,712</b>	<b>\$1,764,509,329</b>	<b>\$1,025,967,232</b>	<b>15,727</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group

**The Total Annual Impact of Exploration, Drilling, and Operations in  
the Barnett Shale on Business Activity in the Barnett Shale Region 2005  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$69,612,777	\$19,236,324	\$13,100,919	167
Forestry & Fishery Products	\$823,273	\$952,055	\$353,203	3
Coal Mining	\$3,289,889	\$954,368	\$1,005,321	4
Crude Petroleum & Natural Gas	\$3,650,596,426	\$800,065,181	\$368,988,703	1,849
Miscellaneous Mining	\$2,955,001	\$1,263,719	\$743,034	6
New Construction	\$171,710,474	\$78,055,632	\$64,322,744	925
Maintenance & Repair Construction	\$293,756,878	\$157,796,763	\$130,034,249	1,776
Food Products & Tobacco	\$78,615,502	\$20,241,418	\$10,340,004	142
Textile Mill Products	\$245,559	\$72,632	\$61,343	1
Apparel	\$23,131,721	\$12,751,551	\$6,460,547	129
Paper & Allied Products	\$13,829,744	\$6,264,553	\$2,832,154	27
Printing & Publishing	\$30,872,540	\$15,534,900	\$10,139,802	122
Chemicals & Petroleum Refining	\$86,689,015	\$14,705,202	\$6,904,500	39
Rubber & Leather Products	\$18,172,827	\$7,701,445	\$4,502,142	67
Lumber Products & Furniture	\$9,695,589	\$3,195,429	\$2,278,479	29
Stone, Clay, & Glass Products	\$21,796,637	\$11,197,412	\$5,855,633	75
Primary Metal	\$16,094,608	\$4,856,867	\$3,615,061	52
Fabricated Metal Products	\$72,524,457	\$27,323,026	\$17,640,162	279
Machinery, Except Electrical	\$33,504,446	\$14,128,034	\$10,093,028	99
Electric & Electronic Equipment	\$16,656,017	\$9,120,991	\$5,452,853	34
Motor Vehicles & Equipment	\$10,969,532	\$2,551,945	\$1,657,946	15
Transp. Equip., Exc. Motor Vehicles	\$4,313,963	\$1,815,390	\$1,185,348	8
Instruments & Related Products	\$2,011,162	\$859,414	\$653,450	5
Miscellaneous Manufacturing	\$7,190,089	\$2,716,813	\$1,874,139	18
Transportation	\$142,957,718	\$94,611,544	\$62,572,847	735
Communication	\$75,992,095	\$47,029,419	\$20,078,694	137
Electric, Gas, Water, Sanitary Services	\$230,851,285	\$51,730,190	\$22,573,651	58
Wholesale Trade	\$134,517,196	\$90,941,808	\$52,437,517	511
Retail Trade	\$587,399,522	\$486,999,138	\$291,210,733	7,701
Finance	\$78,394,531	\$43,178,691	\$25,143,219	182
Insurance	\$51,198,406	\$30,742,809	\$18,379,031	165
Real Estate	\$734,870,532	\$150,106,077	\$24,185,354	191
Hotels, Lodging Places, Amusements	\$49,742,151	\$26,107,199	\$17,127,007	370
Personal Services	\$124,865,612	\$77,295,904	\$60,137,712	936
Business Services	\$168,298,694	\$99,063,177	\$80,810,475	880
Eating & Drinking Places	\$288,906,066	\$169,378,620	\$90,119,059	4,115
Health Services	\$167,411,336	\$117,729,071	\$99,541,618	1,597
Miscellaneous Services	\$162,500,516	\$66,114,264	\$57,315,103	1,261
Households	\$5,765,196	\$5,765,196	\$5,643,179	320
<b>Total</b>	<b>\$7,642,728,985</b>	<b>\$2,770,154,172</b>	<b>\$1,597,369,966</b>	<b>25,031</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group

**The Total Annual Impact of Exploration, Drilling, and Operations in  
the Barnett Shale on Business Activity in Texas 2005  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$94,105,131	\$25,966,479	\$17,683,640	228
Forestry & Fishery Products	\$2,102,845	\$2,393,012	\$886,455	7
Coal Mining	\$12,755,388	\$3,700,312	\$3,896,984	14
Crude Petroleum & Natural Gas	\$3,914,177,666	\$857,812,703	\$395,623,159	1,975
Miscellaneous Mining	\$4,269,981	\$1,826,116	\$1,073,830	9
New Construction	\$171,710,474	\$78,055,632	\$64,322,744	925
Maintenance & Repair Construction	\$320,657,783	\$171,982,340	\$141,724,029	1,931
Food Products & Tobacco	\$214,430,195	\$55,206,051	\$28,202,434	373
Textile Mill Products	\$2,627,396	\$771,004	\$653,617	9
Apparel	\$42,686,357	\$23,529,918	\$11,922,240	237
Paper & Allied Products	\$30,439,976	\$13,769,557	\$6,224,797	58
Printing & Publishing	\$46,362,028	\$23,338,472	\$15,232,226	180
Chemicals & Petroleum Refining	\$239,461,470	\$40,472,701	\$19,005,038	119
Rubber & Leather Products	\$28,124,191	\$11,932,113	\$6,974,186	100
Lumber Products & Furniture	\$12,532,612	\$4,146,568	\$2,957,806	37
Stone, Clay, & Glass Products	\$25,993,557	\$13,389,229	\$7,001,382	86
Primary Metal	\$40,164,953	\$12,091,351	\$8,999,632	129
Fabricated Metal Products	\$78,792,104	\$29,668,416	\$19,153,287	302
Machinery, Except Electrical	\$56,382,716	\$23,748,131	\$16,966,050	171
Electric & Electronic Equipment	\$27,168,821	\$14,843,526	\$8,871,806	52
Motor Vehicles & Equipment	\$14,832,824	\$3,432,850	\$2,229,549	19
Transp. Equip., Exc. Motor Vehicles	\$7,494,719	\$3,150,696	\$2,058,685	12
Instruments & Related Products	\$6,217,733	\$2,656,632	\$2,019,610	14
Miscellaneous Manufacturing	\$12,377,951	\$4,686,879	\$3,233,120	31
Transportation	\$167,176,178	\$110,908,599	\$73,351,247	858
Communication	\$130,894,058	\$80,867,452	\$34,524,808	240
Electric, Gas, Water, Sanitary Services	\$365,492,603	\$81,893,503	\$35,735,532	98
Wholesale Trade	\$212,801,770	\$143,876,946	\$82,960,902	803
Retail Trade	\$664,537,531	\$550,911,277	\$329,427,962	8,685
Finance	\$99,080,632	\$54,416,621	\$31,686,742	222
Insurance	\$107,507,959	\$64,536,469	\$38,580,935	343
Real Estate	\$1,025,575,305	\$223,681,132	\$36,039,728	283
Hotels, Lodging Places, Amusements	\$62,856,608	\$32,948,329	\$21,615,127	446
Personal Services	\$143,016,035	\$88,577,022	\$68,914,139	1,115
Business Services	\$271,822,784	\$162,501,420	\$132,559,989	1,422
Eating & Drinking Places	\$322,225,151	\$188,887,678	\$100,498,344	4,564
Health Services	\$210,621,179	\$147,992,527	\$125,130,264	1,999
Miscellaneous Services	\$178,756,759	\$72,491,440	\$62,844,283	1,391
Households	\$7,880,655	\$7,880,655	\$7,713,720	446
<b>Total</b>	<b>\$9,376,114,080</b>	<b>\$3,434,941,757</b>	<b>\$1,968,500,027</b>	<b>29,933</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Total Annual Impact of Exploration, Drilling, and Operations in  
the Barnett Shale on Business Activity in the Barnett Shale Region 2006  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$166,062,655	\$45,914,198	\$31,269,607	380
Forestry & Fishery Products	\$1,909,706	\$2,139,234	\$793,678	5
Coal Mining	\$7,054,830	\$2,044,519	\$2,154,165	8
Crude Petroleum & Natural Gas	\$7,259,944,840	\$1,591,035,992	\$733,783,123	3,670
Miscellaneous Mining	\$7,736,424	\$3,334,531	\$1,959,555	13
New Construction	\$1,356,966,246	\$616,845,645	\$508,319,556	7,314
Maintenance & Repair Construction	\$608,361,763	\$326,935,198	\$269,415,375	3,716
Food Products & Tobacco	\$182,691,328	\$47,126,934	\$24,073,911	335
Textile Mill Products	\$619,398	\$175,576	\$148,569	2
Apparel	\$56,698,457	\$31,341,516	\$15,879,677	347
Paper & Allied Products	\$29,232,767	\$13,208,856	\$5,971,541	53
Printing & Publishing	\$71,066,209	\$35,626,361	\$23,253,800	294
Chemicals & Petroleum Refining	\$194,935,240	\$32,796,005	\$15,398,915	81
Rubber & Leather Products	\$43,703,803	\$18,636,766	\$10,894,861	180
Lumber Products & Furniture	\$23,871,032	\$7,936,246	\$5,659,442	58
Stone, Clay, & Glass Products	\$62,655,352	\$31,891,984	\$16,679,097	212
Primary Metal	\$56,095,346	\$17,136,606	\$12,755,896	195
Fabricated Metal Products	\$265,732,101	\$101,891,739	\$65,781,900	1,090
Machinery, Except Electrical	\$74,652,185	\$31,423,580	\$22,449,778	224
Electric & Electronic Equipment	\$36,705,079	\$20,094,891	\$12,012,605	68
Motor Vehicles & Equipment	\$24,679,307	\$5,625,115	\$3,655,186	29
Transp. Equip., Exc. Motor Vehicles	\$9,532,994	\$3,989,777	\$2,606,008	16
Instruments & Related Products	\$4,524,824	\$1,944,274	\$1,478,007	9
Miscellaneous Manufacturing	\$17,161,809	\$6,503,489	\$4,485,559	35
Transportation	\$350,825,887	\$231,207,228	\$152,913,159	1,791
Communication	\$160,405,183	\$99,279,466	\$42,385,597	273
Electric, Gas, Water, Sanitary Services	\$495,340,233	\$111,080,921	\$48,472,604	116
Wholesale Trade	\$322,489,938	\$218,075,511	\$125,744,041	1,256
Retail Trade	\$1,270,476,372	\$1,053,242,833	\$629,805,810	16,610
Finance	\$183,191,966	\$100,788,572	\$58,689,769	427
Insurance	\$118,047,832	\$70,815,933	\$42,336,039	408
Real Estate	\$1,564,486,833	\$318,723,457	\$51,352,691	407
Hotels, Lodging Places, Amusements	\$109,865,867	\$57,578,414	\$37,772,979	846
Personal Services	\$265,290,873	\$163,821,480	\$127,456,069	2,041
Business Services	\$492,529,360	\$300,245,114	\$244,923,608	2,829
Eating & Drinking Places	\$621,317,147	\$364,273,090	\$193,813,407	8,779
Health Services	\$371,006,511	\$260,335,762	\$220,117,490	3,523
Miscellaneous Services	\$378,442,088	\$155,087,103	\$134,447,091	2,990
Households	\$14,662,507	\$14,662,507	\$14,351,631	859
<b>Total</b>	<b>\$17,280,972,292</b>	<b>\$6,514,816,425</b>	<b>\$3,915,461,799</b>	<b>61,490</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Total Annual Impact of Exploration, Drilling, and Operations in  
the Barnett Shale on Business Activity in Texas 2006  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$217,279,011	\$60,002,857	\$40,863,282	496
Forestry & Fishery Products	\$4,765,298	\$5,280,581	\$1,954,482	14
Coal Mining	\$28,577,002	\$8,278,643	\$8,720,644	28
Crude Petroleum & Natural Gas	\$7,795,621,990	\$1,708,346,059	\$787,889,752	3,920
Miscellaneous Mining	\$11,204,711	\$4,829,748	\$2,838,085	17
New Construction	\$1,356,966,246	\$616,845,645	\$508,319,556	7,314
Maintenance & Repair Construction	\$664,727,661	\$356,684,763	\$293,932,889	4,040
Food Products & Tobacco	\$492,060,795	\$126,911,198	\$64,835,949	906
Textile Mill Products	\$6,210,963	\$1,766,139	\$1,495,015	17
Apparel	\$102,755,819	\$56,785,137	\$28,774,739	614
Paper & Allied Products	\$70,964,710	\$31,949,911	\$14,443,597	114
Printing & Publishing	\$107,248,977	\$53,791,229	\$35,109,386	430
Chemicals & Petroleum Refining	\$558,253,234	\$93,354,292	\$43,836,124	308
Rubber & Leather Products	\$67,540,088	\$28,825,876	\$16,847,107	272
Lumber Products & Furniture	\$30,595,435	\$10,201,454	\$7,274,022	73
Stone, Clay, & Glass Products	\$76,397,533	\$38,956,799	\$20,374,209	244
Primary Metal	\$138,991,472	\$42,407,465	\$31,565,398	481
Fabricated Metal Products	\$292,569,683	\$112,178,514	\$72,419,669	1,198
Machinery, Except Electrical	\$123,787,507	\$52,069,128	\$37,197,281	410
Electric & Electronic Equipment	\$65,094,216	\$35,523,442	\$21,228,916	104
Motor Vehicles & Equipment	\$35,649,981	\$8,044,855	\$5,223,312	38
Transp. Equip., Exc. Motor Vehicles	\$18,292,237	\$7,637,537	\$4,989,352	24
Instruments & Related Products	\$15,358,452	\$6,596,027	\$5,016,818	28
Miscellaneous Manufacturing	\$29,475,498	\$11,189,863	\$7,718,600	62
Transportation	\$408,789,291	\$269,950,075	\$178,536,908	2,143
Communication	\$292,928,818	\$181,000,765	\$77,274,434	591
Electric, Gas, Water, Sanitary Services	\$781,356,794	\$175,207,312	\$76,453,808	194
Wholesale Trade	\$524,577,493	\$354,763,765	\$204,561,213	2,095
Retail Trade	\$1,420,166,767	\$1,177,268,227	\$703,972,546	18,555
Finance	\$230,018,356	\$126,254,969	\$73,517,483	507
Insurance	\$254,894,169	\$152,854,005	\$91,379,190	896
Real Estate	\$2,179,274,114	\$472,350,004	\$76,105,523	637
Hotels, Lodging Places, Amusements	\$140,959,875	\$73,771,200	\$48,397,958	1,015
Personal Services	\$300,876,861	\$185,928,081	\$144,655,071	2,370
Business Services	\$798,382,825	\$491,827,064	\$401,204,078	4,560
Eating & Drinking Places	\$688,900,984	\$403,847,139	\$214,868,967	9,698
Health Services	\$466,472,973	\$327,072,719	\$276,542,695	4,392
Miscellaneous Services	\$410,295,535	\$167,595,611	\$145,291,304	3,222
Households	\$19,127,017	\$19,127,017	\$18,723,043	1,136
<b>Total</b>	<b>\$21,227,410,390</b>	<b>\$8,057,275,118</b>	<b>\$4,794,352,405</b>	<b>73,162</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Total Annual Impact of Exploration, Drilling, and Operations in  
the Barnett Shale on Business Activity in the Barnett Shale Region 2007  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$236,394,070	\$65,404,173	\$44,543,315	567
Forestry & Fishery Products	\$2,747,663	\$3,132,206	\$1,162,031	9
Coal Mining	\$10,515,371	\$3,049,538	\$3,212,977	13
Crude Petroleum & Natural Gas	\$11,780,058,516	\$2,581,674,656	\$1,190,664,228	5,964
Miscellaneous Mining	\$11,021,570	\$4,736,647	\$2,783,884	21
New Construction	\$1,463,121,648	\$665,101,450	\$548,085,370	7,886
Maintenance & Repair Construction	\$949,785,548	\$510,822,163	\$420,949,618	5,840
Food Products & Tobacco	\$264,296,807	\$68,132,128	\$34,804,182	496
Textile Mill Products	\$866,941	\$253,010	\$214,012	3
Apparel	\$80,322,111	\$44,347,874	\$22,469,658	498
Paper & Allied Products	\$43,099,016	\$19,525,813	\$8,827,379	87
Printing & Publishing	\$102,818,798	\$51,600,836	\$33,680,572	440
Chemicals & Petroleum Refining	\$287,795,588	\$48,799,233	\$22,913,075	129
Rubber & Leather Products	\$62,562,380	\$26,598,462	\$15,549,178	257
Lumber Products & Furniture	\$34,020,176	\$11,244,968	\$8,018,585	94
Stone, Clay, & Glass Products	\$85,671,781	\$43,666,599	\$22,836,846	298
Primary Metal	\$72,922,325	\$22,207,579	\$16,530,383	250
Fabricated Metal Products	\$338,745,498	\$129,284,834	\$83,467,160	1,380
Machinery, Except Electrical	\$113,687,054	\$47,923,986	\$34,237,673	344
Electric & Electronic Equipment	\$55,195,053	\$30,258,125	\$18,088,524	111
Motor Vehicles & Equipment	\$36,161,432	\$8,322,373	\$5,407,512	47
Transp. Equip., Exc. Motor Vehicles	\$14,168,252	\$5,938,180	\$3,878,612	26
Instruments & Related Products	\$6,648,484	\$2,856,077	\$2,171,197	15
Miscellaneous Manufacturing	\$24,628,006	\$9,303,745	\$6,417,142	57
Transportation	\$498,584,102	\$328,500,015	\$217,259,220	2,607
Communication	\$234,101,402	\$144,879,544	\$61,853,935	420
Electric, Gas, Water, Sanitary Services	\$728,535,448	\$163,310,465	\$71,264,174	188
Wholesale Trade	\$464,163,446	\$313,837,409	\$180,960,988	1,834
Retail Trade	\$1,823,843,337	\$1,512,107,312	\$904,192,624	23,904
Finance	\$268,394,481	\$147,935,549	\$86,143,678	646
Insurance	\$171,620,568	\$103,007,500	\$61,581,294	604
Real Estate	\$2,329,968,627	\$491,728,238	\$79,227,531	640
Hotels, Lodging Places, Amusements	\$158,288,564	\$82,968,281	\$54,429,474	1,225
Personal Services	\$382,087,187	\$236,055,035	\$183,655,081	2,947
Business Services	\$660,609,460	\$398,637,707	\$325,186,950	3,749
Eating & Drinking Places	\$903,345,626	\$529,664,285	\$281,810,736	12,819
Health Services	\$531,741,379	\$373,162,438	\$315,513,875	5,082
Miscellaneous Services	\$541,892,955	\$221,986,147	\$192,442,679	4,321
Households	\$20,721,498	\$20,721,498	\$20,282,394	1,229
<b>Total</b>	<b>\$25,795,152,168</b>	<b>\$9,472,686,076</b>	<b>\$5,586,717,745</b>	<b>87,045</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Total Annual Impact of Exploration, Drilling, and Operations in  
the Barnett Shale on Business Activity in Texas 2007  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$311,250,072	\$86,005,522	\$58,571,929	747
Forestry & Fishery Products	\$6,818,017	\$7,675,434	\$2,842,019	23
Coal Mining	\$41,413,186	\$12,005,706	\$12,646,641	45
Crude Petroleum & Natural Gas	\$12,633,092,908	\$2,768,525,566	\$1,276,843,874	6,370
Miscellaneous Mining	\$15,872,977	\$6,822,442	\$4,009,697	28
New Construction	\$1,463,121,648	\$665,101,450	\$548,085,370	7,886
Maintenance & Repair Construction	\$1,033,898,756	\$555,279,579	\$457,587,270	6,330
Food Products & Tobacco	\$711,073,301	\$183,282,434	\$93,633,425	1,328
Textile Mill Products	\$8,838,946	\$2,578,527	\$2,183,154	28
Apparel	\$146,519,067	\$80,880,726	\$40,983,869	893
Paper & Allied Products	\$101,308,878	\$45,754,034	\$20,684,137	186
Printing & Publishing	\$154,280,281	\$77,460,795	\$50,558,198	645
Chemicals & Petroleum Refining	\$813,383,917	\$137,163,496	\$64,407,555	447
Rubber & Leather Products	\$96,375,813	\$41,013,048	\$23,970,860	387
Lumber Products & Furniture	\$43,547,624	\$14,440,019	\$10,296,854	118
Stone, Clay, & Glass Products	\$103,443,863	\$52,827,250	\$27,627,715	342
Primary Metal	\$180,493,279	\$54,892,553	\$40,858,336	617
Fabricated Metal Products	\$370,712,239	\$141,482,192	\$91,337,718	1,509
Machinery, Except Electrical	\$189,212,140	\$79,700,360	\$56,937,351	615
Electric & Electronic Equipment	\$94,461,775	\$51,634,256	\$30,859,165	169
Motor Vehicles & Equipment	\$50,854,311	\$11,601,471	\$7,533,509	62
Transp. Equip., Exc. Motor Vehicles	\$26,124,487	\$10,928,748	\$7,139,870	39
Instruments & Related Products	\$21,864,768	\$9,387,871	\$7,139,102	45
Miscellaneous Manufacturing	\$42,275,366	\$16,000,754	\$11,037,084	101
Transportation	\$578,151,364	\$381,723,200	\$252,459,820	3,077
Communication	\$420,621,913	\$259,884,873	\$110,952,529	849
Electric, Gas, Water, Sanitary Services	\$1,152,872,795	\$258,405,210	\$112,758,802	315
Wholesale Trade	\$745,679,015	\$504,223,247	\$290,740,976	2,986
Retail Trade	\$2,035,006,561	\$1,687,062,979	\$1,008,813,898	26,643
Finance	\$335,877,024	\$184,687,345	\$107,542,658	776
Insurance	\$365,297,393	\$219,177,424	\$131,028,993	1,299
Real Estate	\$3,250,774,480	\$728,575,371	\$117,388,873	980
Hotels, Lodging Places, Amusements	\$201,444,128	\$105,449,081	\$69,179,640	1,474
Personal Services	\$432,500,793	\$267,377,422	\$208,023,858	3,416
Business Services	\$1,066,835,208	\$651,166,000	\$531,184,123	6,035
Eating & Drinking Places	\$997,133,490	\$584,578,942	\$311,027,924	14,095
Health Services	\$667,552,661	\$468,097,425	\$395,781,140	6,336
Miscellaneous Services	\$586,794,826	\$239,605,656	\$207,718,138	4,659
Households	\$27,280,384	\$27,280,384	\$26,703,755	1,638
<b>Total</b>	<b>\$31,524,059,653</b>	<b>\$11,679,738,789</b>	<b>\$6,829,079,827</b>	<b>103,539</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group





**The Total Annual Impact of Exploration, Drilling, and Operations in  
the Barnett Shale on Business Activity in the Barnett Shale Region 2008  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$310,924,495	\$85,990,512	\$58,563,820	757
Forestry & Fishery Products	\$3,656,655	\$4,219,696	\$1,565,455	12
Coal Mining	\$14,444,121	\$4,190,328	\$4,414,438	19
Crude Petroleum & Natural Gas	\$16,471,969,647	\$3,609,982,441	\$1,664,918,038	8,344
Miscellaneous Mining	\$13,862,775	\$5,938,491	\$3,491,063	29
New Construction	\$1,168,343,011	\$531,101,861	\$437,661,292	6,297
Maintenance & Repair Construction	\$1,313,669,550	\$706,251,849	\$581,995,396	8,026
Food Products & Tobacco	\$351,044,697	\$90,422,607	\$46,190,987	651
Textile Mill Products	\$1,112,996	\$329,903	\$278,817	5
Apparel	\$104,346,894	\$57,547,545	\$29,156,986	617
Paper & Allied Products	\$59,778,126	\$27,100,060	\$12,251,673	121
Printing & Publishing	\$137,202,888	\$68,969,415	\$45,017,203	571
Chemicals & Petroleum Refining	\$386,915,607	\$65,766,536	\$30,879,568	176
Rubber & Leather Products	\$81,878,069	\$34,724,284	\$20,299,354	319
Lumber Products & Furniture	\$44,054,538	\$14,515,008	\$10,349,979	132
Stone, Clay, & Glass Products	\$103,746,964	\$53,096,505	\$27,767,521	362
Primary Metal	\$81,339,848	\$24,642,843	\$18,342,610	271
Fabricated Metal Products	\$369,995,162	\$140,159,867	\$90,488,718	1,467
Machinery, Except Electrical	\$152,562,726	\$64,347,545	\$45,970,191	457
Electric & Electronic Equipment	\$74,659,924	\$40,922,534	\$24,464,502	155
Motor Vehicles & Equipment	\$48,678,782	\$11,294,398	\$7,338,040	66
Transp. Equip., Exc. Motor Vehicles	\$19,185,711	\$8,060,398	\$5,263,878	37
Instruments & Related Products	\$8,944,683	\$3,832,238	\$2,913,562	21
Miscellaneous Manufacturing	\$32,335,445	\$12,205,156	\$8,418,986	80
Transportation	\$646,975,298	\$427,159,918	\$282,509,215	3,382
Communication	\$325,685,710	\$201,553,400	\$86,050,548	594
Electric, Gas, Water, Sanitary Services	\$1,003,382,721	\$224,856,194	\$98,121,108	263
Wholesale Trade	\$607,792,688	\$410,911,883	\$236,934,356	2,368
Retail Trade	\$2,515,316,294	\$2,085,436,662	\$1,247,026,943	32,995
Finance	\$354,661,905	\$195,521,599	\$113,853,344	847
Insurance	\$228,610,604	\$137,263,401	\$82,060,563	776
Real Estate	\$3,212,698,223	\$673,634,599	\$108,536,900	872
Hotels, Lodging Places, Amusements	\$215,814,218	\$113,201,295	\$74,263,114	1,641
Personal Services	\$531,407,350	\$328,685,563	\$255,723,530	4,041
Business Services	\$795,116,521	\$472,602,872	\$385,523,992	4,328
Eating & Drinking Places	\$1,245,913,621	\$730,501,798	\$388,667,998	17,735
Health Services	\$724,568,459	\$509,034,146	\$430,395,405	6,931
Miscellaneous Services	\$720,426,378	\$294,093,544	\$254,953,018	5,685
Households	\$26,455,599	\$26,455,599	\$25,895,413	1,527
<b>Total</b>	<b>\$34,509,478,901</b>	<b>\$12,496,524,492</b>	<b>\$7,248,517,521</b>	<b>112,974</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group

**The Total Annual Impact of Exploration, Drilling, and Operations in  
the Barnett Shale on Business Activity in Texas 2008  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$415,531,585	\$114,760,670	\$78,154,601	1,016
Forestry & Fishery Products	\$9,189,922	\$10,449,959	\$3,870,643	31
Coal Mining	\$55,992,026	\$16,240,977	\$17,106,082	63
Crude Petroleum & Natural Gas	\$17,657,384,969	\$3,869,680,123	\$1,784,695,902	8,912
Miscellaneous Mining	\$19,960,161	\$8,551,160	\$5,027,244	39
New Construction	\$1,168,343,011	\$531,101,861	\$437,661,292	6,297
Maintenance & Repair Construction	\$1,430,529,127	\$767,969,530	\$632,855,528	8,705
Food Products & Tobacco	\$950,556,101	\$244,823,391	\$125,070,884	1,724
Textile Mill Products	\$11,678,455	\$3,442,927	\$2,917,021	39
Apparel	\$191,802,394	\$105,768,540	\$53,592,851	1,125
Paper & Allied Products	\$134,695,766	\$60,937,697	\$27,548,208	260
Printing & Publishing	\$205,605,868	\$103,396,284	\$67,484,603	840
Chemicals & Petroleum Refining	\$1,077,190,963	\$182,299,423	\$85,602,750	563
Rubber & Leather Products	\$126,291,844	\$53,616,544	\$31,338,143	478
Lumber Products & Furniture	\$56,636,644	\$18,728,065	\$13,356,946	165
Stone, Clay, & Glass Products	\$124,131,677	\$63,676,968	\$33,299,565	415
Primary Metal	\$201,963,867	\$61,072,809	\$45,457,646	668
Fabricated Metal Products	\$402,641,920	\$152,489,025	\$98,443,684	1,594
Machinery, Except Electrical	\$255,535,596	\$107,675,570	\$76,924,161	798
Electric & Electronic Equipment	\$123,544,269	\$67,548,183	\$40,372,330	236
Motor Vehicles & Equipment	\$66,617,369	\$15,355,239	\$9,972,314	87
Transp. Equip., Exc. Motor Vehicles	\$33,960,255	\$14,248,888	\$9,309,804	55
Instruments & Related Products	\$28,274,545	\$12,110,459	\$9,207,631	63
Miscellaneous Manufacturing	\$55,574,719	\$21,019,463	\$14,499,311	142
Transportation	\$752,174,344	\$497,758,115	\$329,200,967	3,953
Communication	\$570,105,256	\$352,223,091	\$150,374,750	1,097
Electric, Gas, Water, Sanitary Services	\$1,589,628,064	\$356,195,903	\$155,431,690	441
Wholesale Trade	\$965,474,740	\$652,780,388	\$376,400,101	3,762
Retail Trade	\$2,825,071,084	\$2,342,079,223	\$1,400,492,189	36,976
Finance	\$445,535,498	\$244,971,570	\$142,646,432	1,029
Insurance	\$481,310,701	\$288,901,922	\$172,711,148	1,632
Real Estate	\$4,484,978,515	\$1,000,831,164	\$161,254,994	1,306
Hotels, Lodging Places, Amusements	\$273,022,067	\$143,025,843	\$93,830,283	1,976
Personal Services	\$604,862,909	\$374,334,982	\$291,238,077	4,750
Business Services	\$1,282,422,328	\$772,696,118	\$630,323,002	6,976
Eating & Drinking Places	\$1,380,798,828	\$809,478,569	\$430,686,200	19,561
Health Services	\$910,215,081	\$638,931,924	\$540,226,160	8,660
Miscellaneous Services	\$785,958,545	\$319,799,234	\$277,239,894	6,200
Households	\$35,567,443	\$35,567,443	\$34,814,677	2,083
<b>Total</b>	<b>\$42,190,758,454</b>	<b>\$15,436,539,246</b>	<b>\$8,890,639,708</b>	<b>134,719</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Total Annual Impact of Exploration, Drilling, and Operations in  
the Barnett Shale on Business Activity in the Barnett Shale Region 2009  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$236,840,527	\$65,563,940	\$44,652,194	583
Forestry & Fishery Products	\$2,764,763	\$3,178,676	\$1,179,242	10
Coal Mining	\$10,742,826	\$3,116,624	\$3,283,676	14
Crude Petroleum & Natural Gas	\$12,601,711,255	\$2,761,762,765	\$1,273,720,724	6,383
Miscellaneous Mining	\$11,164,340	\$4,792,160	\$2,816,611	22
New Construction	\$1,287,206,692	\$585,134,556	\$482,187,627	6,938
Maintenance & Repair Construction	\$996,488,107	\$536,241,032	\$441,896,290	6,161
Food Products & Tobacco	\$267,034,139	\$68,820,514	\$35,155,926	510
Textile Mill Products	\$863,565	\$256,095	\$216,612	4
Apparel	\$80,448,222	\$44,393,892	\$22,493,140	508
Paper & Allied Products	\$43,619,736	\$19,792,104	\$8,947,773	93
Printing & Publishing	\$103,772,577	\$52,096,528	\$34,004,145	457
Chemicals & Petroleum Refining	\$293,777,041	\$50,032,397	\$23,492,186	137
Rubber & Leather Products	\$62,991,796	\$26,742,818	\$15,633,578	262
Lumber Products & Furniture	\$34,237,714	\$11,281,136	\$8,044,212	101
Stone, Clay, & Glass Products	\$85,088,195	\$43,371,028	\$22,682,294	302
Primary Metal	\$71,038,352	\$21,605,794	\$16,082,401	242
Fabricated Metal Products	\$326,466,484	\$124,335,265	\$80,271,671	1,330
Machinery, Except Electrical	\$118,368,565	\$49,934,769	\$35,674,091	361
Electric & Electronic Equipment	\$56,914,890	\$31,228,089	\$18,668,500	118
Motor Vehicles & Equipment	\$36,722,429	\$8,487,491	\$5,514,676	51
Transp. Equip., Exc. Motor Vehicles	\$14,498,887	\$6,078,691	\$3,970,529	28
Instruments & Related Products	\$6,764,727	\$2,907,423	\$2,210,211	16
Miscellaneous Manufacturing	\$24,818,925	\$9,358,221	\$6,454,736	61
Transportation	\$500,580,630	\$329,594,462	\$217,982,921	2,660
Communication	\$235,186,061	\$145,543,434	\$62,137,385	434
Electric, Gas, Water, Sanitary Services	\$737,484,168	\$165,285,778	\$72,126,170	202
Wholesale Trade	\$468,984,562	\$317,076,602	\$182,828,749	1,876
Retail Trade	\$1,816,298,050	\$1,505,921,004	\$900,493,426	23,841
Finance	\$273,756,328	\$151,062,016	\$87,964,197	673
Insurance	\$173,838,336	\$104,365,028	\$62,392,945	625
Real Estate	\$2,376,880,964	\$513,472,893	\$82,731,153	678
Hotels, Lodging Places, Amusements	\$158,471,869	\$83,058,004	\$54,488,386	1,236
Personal Services	\$380,526,102	\$235,094,512	\$182,907,737	2,949
Business Services	\$647,943,648	\$389,390,694	\$317,643,705	3,678
Eating & Drinking Places	\$907,252,973	\$531,986,106	\$283,046,017	12,900
Health Services	\$530,571,662	\$372,266,742	\$314,756,433	5,091
Miscellaneous Services	\$543,655,438	\$222,840,291	\$193,183,178	4,373
Households	\$20,804,880	\$20,804,880	\$20,364,092	1,252
<b>Total</b>	<b>\$26,546,580,423</b>	<b>\$9,618,274,457</b>	<b>\$5,624,299,541</b>	<b>87,157</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group

**The Total Annual Impact of Exploration, Drilling, and Operations in  
the Barnett Shale on Business Activity in Texas 2009  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$312,029,842	\$86,267,024	\$58,750,245	770
Forestry & Fishery Products	\$6,813,509	\$7,732,190	\$2,863,553	24
Coal Mining	\$41,708,848	\$12,095,429	\$12,741,473	48
Crude Petroleum & Natural Gas	\$13,505,996,674	\$2,959,857,421	\$1,365,085,592	6,818
Miscellaneous Mining	\$16,018,802	\$6,876,956	\$4,041,901	30
New Construction	\$1,287,206,692	\$585,134,556	\$482,187,627	6,938
Maintenance & Repair Construction	\$1,082,242,609	\$581,615,354	\$479,289,227	6,665
Food Products & Tobacco	\$716,799,039	\$184,715,164	\$94,364,876	1,361
Textile Mill Products	\$8,844,274	\$2,617,563	\$2,216,142	30
Apparel	\$147,127,843	\$81,176,679	\$41,133,670	916
Paper & Allied Products	\$101,430,806	\$45,886,031	\$20,743,891	199
Printing & Publishing	\$155,169,066	\$77,930,740	\$50,865,044	671
Chemicals & Petroleum Refining	\$826,230,333	\$139,968,129	\$65,724,410	459
Rubber & Leather Products	\$96,800,208	\$41,136,063	\$24,043,289	394
Lumber Products & Furniture	\$43,743,439	\$14,460,273	\$10,311,252	126
Stone, Clay, & Glass Products	\$102,229,805	\$52,211,241	\$27,305,509	346
Primary Metal	\$175,571,545	\$53,328,067	\$39,693,875	598
Fabricated Metal Products	\$355,993,021	\$135,580,091	\$87,527,664	1,451
Machinery, Except Electrical	\$197,147,857	\$83,106,327	\$59,370,772	638
Electric & Electronic Equipment	\$95,986,201	\$52,520,373	\$31,389,923	181
Motor Vehicles & Equipment	\$51,071,485	\$11,706,955	\$7,602,429	66
Transp. Equip., Exc. Motor Vehicles	\$26,304,871	\$11,010,665	\$7,193,554	42
Instruments & Related Products	\$21,995,843	\$9,447,910	\$7,184,331	48
Miscellaneous Manufacturing	\$42,574,733	\$16,084,303	\$11,094,644	108
Transportation	\$578,204,119	\$381,503,625	\$252,314,398	3,118
Communication	\$420,782,933	\$259,976,543	\$110,991,743	860
Electric, Gas, Water, Sanitary Services	\$1,169,105,104	\$261,991,411	\$114,323,986	337
Wholesale Trade	\$749,167,864	\$506,548,535	\$292,081,585	3,025
Retail Trade	\$2,020,689,195	\$1,675,263,770	\$1,001,757,863	26,494
Finance	\$341,536,638	\$188,017,988	\$109,482,222	813
Insurance	\$367,491,523	\$220,551,316	\$131,850,679	1,332
Real Estate	\$3,319,119,553	\$760,187,511	\$122,482,296	1,028
Hotels, Lodging Places, Amusements	\$200,877,302	\$105,148,399	\$68,982,152	1,489
Personal Services	\$429,559,812	\$265,560,713	\$206,610,428	3,405
Business Services	\$1,043,803,339	\$634,597,935	\$517,668,962	5,914
Eating & Drinking Places	\$997,467,093	\$584,806,198	\$311,148,723	14,130
Health Services	\$665,294,221	\$466,413,722	\$394,357,652	6,346
Miscellaneous Services	\$587,156,200	\$239,902,811	\$207,975,755	4,703
Households	\$27,425,073	\$27,425,073	\$26,845,258	1,667
<b>Total</b>	<b>\$32,334,717,312</b>	<b>\$11,830,361,053</b>	<b>\$6,861,598,597</b>	<b>103,592</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Total Annual Impact of Exploration, Drilling, and Operations in  
the Barnett Shale on Business Activity in the Barnett Shale Region 2010  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$260,396,933	\$72,080,803	\$49,090,519	643
Forestry & Fishery Products	\$3,044,848	\$3,506,739	\$1,300,946	11
Coal Mining	\$11,884,483	\$3,447,993	\$3,632,750	16
Crude Petroleum & Natural Gas	\$13,970,714,179	\$3,061,795,652	\$1,412,095,415	7,077
Miscellaneous Mining	\$12,198,460	\$5,233,713	\$3,076,234	25
New Construction	\$1,324,895,176	\$602,266,874	\$496,305,733	7,141
Maintenance & Repair Construction	\$1,103,235,187	\$593,648,666	\$489,203,716	6,815
Food Products & Tobacco	\$293,999,237	\$75,761,437	\$38,701,601	560
Textile Mill Products	\$946,194	\$281,215	\$237,832	4
Apparel	\$88,293,848	\$48,715,562	\$24,682,745	554
Paper & Allied Products	\$48,328,129	\$21,930,319	\$9,914,442	103
Printing & Publishing	\$114,328,339	\$57,409,221	\$37,471,805	501
Chemicals & Petroleum Refining	\$323,990,719	\$55,196,034	\$25,916,681	151
Rubber & Leather Products	\$69,207,282	\$29,371,269	\$17,170,132	286
Lumber Products & Furniture	\$37,559,726	\$12,370,106	\$8,820,672	112
Stone, Clay, & Glass Products	\$92,480,585	\$47,165,129	\$24,666,424	328
Primary Metal	\$76,359,558	\$23,208,190	\$17,275,095	260
Fabricated Metal Products	\$349,899,574	\$133,126,885	\$85,947,667	1,420
Machinery, Except Electrical	\$130,495,905	\$55,054,891	\$39,331,889	397
Electric & Electronic Equipment	\$62,819,775	\$34,467,054	\$20,604,874	131
Motor Vehicles & Equipment	\$40,507,776	\$9,373,119	\$6,090,039	56
Transp. Equip., Exc. Motor Vehicles	\$16,006,364	\$6,713,008	\$4,384,749	31
Instruments & Related Products	\$7,461,337	\$3,205,583	\$2,436,906	17
Miscellaneous Manufacturing	\$27,280,257	\$10,285,095	\$7,094,113	68
Transportation	\$549,310,411	\$361,786,136	\$239,273,379	2,919
Communication	\$260,709,573	\$161,337,936	\$68,880,666	482
Electric, Gas, Water, Sanitary Services	\$816,236,968	\$182,928,462	\$79,824,962	224
Wholesale Trade	\$515,296,337	\$348,383,038	\$200,880,216	2,057
Retail Trade	\$2,010,945,516	\$1,667,310,936	\$996,999,699	26,399
Finance	\$301,171,741	\$166,194,073	\$96,775,678	740
Insurance	\$191,470,163	\$114,956,331	\$68,724,779	685
Real Estate	\$2,630,971,815	\$567,723,450	\$91,472,106	749
Hotels, Lodging Places, Amusements	\$175,148,267	\$91,808,114	\$60,228,698	1,363
Personal Services	\$421,840,913	\$260,664,940	\$202,802,016	3,262
Business Services	\$703,566,908	\$421,935,728	\$344,192,204	3,971
Eating & Drinking Places	\$1,004,415,332	\$588,956,215	\$313,357,335	14,288
Health Services	\$586,368,829	\$411,482,548	\$347,913,934	5,627
Miscellaneous Services	\$598,648,541	\$245,257,608	\$212,616,985	4,808
Households	\$22,778,190	\$22,778,190	\$22,295,645	1,366
<b>Total</b>	<b>\$29,255,213,376</b>	<b>\$10,579,118,262</b>	<b>\$6,171,691,283</b>	<b>95,644</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Total Annual Impact of Exploration, Drilling, and Operations in  
the Barnett Shale on Business Activity in Texas 2010  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$343,802,241	\$95,043,720	\$64,727,381	850
Forestry & Fishery Products	\$7,517,901	\$8,543,701	\$3,164,240	27
Coal Mining	\$46,039,422	\$13,352,318	\$14,065,260	53
Crude Petroleum & Natural Gas	\$14,972,446,050	\$3,281,241,889	\$1,513,307,995	7,560
Miscellaneous Mining	\$17,501,738	\$7,510,188	\$4,414,266	33
New Construction	\$1,324,895,176	\$602,266,874	\$496,305,733	7,141
Maintenance & Repair Construction	\$1,198,262,940	\$643,923,394	\$530,634,859	7,373
Food Products & Tobacco	\$789,918,516	\$203,535,433	\$103,979,299	1,494
Textile Mill Products	\$9,730,290	\$2,884,008	\$2,441,967	33
Apparel	\$161,651,277	\$89,176,819	\$45,187,224	1,001
Paper & Allied Products	\$111,692,896	\$50,540,796	\$22,848,184	220
Printing & Publishing	\$170,923,121	\$85,862,739	\$56,042,040	736
Chemicals & Petroleum Refining	\$909,267,309	\$154,110,945	\$72,365,508	501
Rubber & Leather Products	\$106,371,218	\$45,188,151	\$26,411,773	430
Lumber Products & Furniture	\$48,017,086	\$15,866,772	\$11,314,476	140
Stone, Clay, & Glass Products	\$110,969,701	\$56,709,134	\$29,657,540	377
Primary Metal	\$188,793,443	\$57,300,659	\$42,650,707	641
Fabricated Metal Products	\$381,240,485	\$145,046,605	\$93,639,077	1,549
Machinery, Except Electrical	\$217,540,307	\$91,706,833	\$65,515,115	701
Electric & Electronic Equipment	\$105,446,275	\$57,698,576	\$34,485,052	200
Motor Vehicles & Equipment	\$56,118,414	\$12,882,687	\$8,366,093	73
Transp. Equip., Exc. Motor Vehicles	\$28,872,811	\$12,090,610	\$7,899,212	47
Instruments & Related Products	\$24,125,334	\$10,359,053	\$7,876,951	53
Miscellaneous Manufacturing	\$46,805,281	\$17,680,829	\$12,195,945	120
Transportation	\$634,724,392	\$418,932,638	\$277,068,674	3,417
Communication	\$464,659,981	\$287,083,032	\$122,564,348	943
Electric, Gas, Water, Sanitary Services	\$1,294,147,939	\$290,001,025	\$126,546,472	374
Wholesale Trade	\$821,840,294	\$555,677,787	\$320,409,987	3,306
Retail Trade	\$2,239,522,602	\$1,856,692,418	\$1,110,246,547	29,362
Finance	\$375,946,982	\$206,958,751	\$120,511,425	894
Insurance	\$404,140,443	\$242,560,174	\$145,008,004	1,455
Real Estate	\$3,674,223,123	\$840,837,355	\$135,476,688	1,133
Hotels, Lodging Places, Amusements	\$221,826,709	\$116,127,287	\$76,184,625	1,642
Personal Services	\$476,612,366	\$294,697,465	\$229,279,227	3,774
Business Services	\$1,133,184,135	\$687,702,286	\$560,988,662	6,387
Eating & Drinking Places	\$1,104,993,519	\$647,844,329	\$344,688,368	15,658
Health Services	\$735,335,856	\$515,599,309	\$435,944,902	7,016
Miscellaneous Services	\$647,255,892	\$264,322,157	\$229,145,366	5,180
Households	\$30,114,934	\$30,114,934	\$29,478,134	1,824
<b>Total</b>	<b>\$35,636,478,400</b>	<b>\$13,015,673,679</b>	<b>\$7,533,037,325</b>	<b>113,720</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Total Annual Impact of Exploration, Drilling, and Operations in  
the Barnett Shale on Business Activity in the Barnett Shale Region 2011  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$273,057,599	\$75,587,873	\$51,479,013	675
Forestry & Fishery Products	\$3,194,486	\$3,682,008	\$1,365,965	11
Coal Mining	\$12,488,213	\$3,623,260	\$3,817,403	17
Crude Petroleum & Natural Gas	\$14,729,474,887	\$3,228,086,202	\$1,488,788,369	7,462
Miscellaneous Mining	\$12,792,241	\$5,487,716	\$3,225,550	26
New Construction	\$1,363,687,152	\$619,900,815	\$510,837,207	7,350
Maintenance & Repair Construction	\$1,161,479,937	\$625,009,293	\$515,046,825	7,176
Food Products & Tobacco	\$308,526,215	\$79,502,495	\$40,612,674	589
Textile Mill Products	\$991,391	\$295,059	\$249,536	4
Apparel	\$92,565,674	\$51,069,630	\$25,875,488	581
Paper & Allied Products	\$50,758,886	\$23,036,027	\$10,414,321	108
Printing & Publishing	\$119,977,768	\$60,249,052	\$39,325,404	527
Chemicals & Petroleum Refining	\$340,309,434	\$57,995,886	\$27,231,324	159
Rubber & Leather Products	\$72,591,593	\$30,803,193	\$18,007,219	300
Lumber Products & Furniture	\$39,388,298	\$12,968,743	\$9,247,519	118
Stone, Clay, & Glass Products	\$96,785,641	\$49,364,093	\$25,816,426	344
Primary Metal	\$79,694,287	\$24,217,335	\$18,026,245	271
Fabricated Metal Products	\$364,753,879	\$138,739,129	\$89,570,979	1,480
Machinery, Except Electrical	\$137,249,348	\$57,907,526	\$41,369,826	418
Electric & Electronic Equipment	\$66,036,040	\$36,233,755	\$21,661,052	138
Motor Vehicles & Equipment	\$42,533,794	\$9,846,121	\$6,397,346	59
Transp. Equip., Exc. Motor Vehicles	\$16,817,435	\$7,053,599	\$4,607,212	33
Instruments & Related Products	\$7,835,493	\$3,366,295	\$2,559,082	18
Miscellaneous Manufacturing	\$28,617,581	\$10,787,707	\$7,440,799	72
Transportation	\$575,975,603	\$379,343,306	\$250,885,093	3,064
Communication	\$273,697,696	\$169,374,857	\$72,311,912	508
Electric, Gas, Water, Sanitary Services	\$857,200,630	\$192,105,526	\$83,829,584	236
Wholesale Trade	\$540,632,449	\$365,510,129	\$210,755,816	2,160
Retail Trade	\$2,109,524,838	\$1,749,051,093	\$1,045,877,774	27,696
Finance	\$316,234,974	\$174,520,562	\$101,624,234	778
Insurance	\$200,976,134	\$120,666,452	\$72,138,487	719
Real Estate	\$2,764,524,102	\$597,417,159	\$96,256,398	788
Hotels, Lodging Places, Amusements	\$183,766,047	\$96,325,983	\$63,192,550	1,430
Personal Services	\$442,586,701	\$273,490,073	\$212,780,200	3,423
Business Services	\$735,561,636	\$440,878,921	\$359,645,031	4,149
Eating & Drinking Places	\$1,054,274,508	\$618,194,152	\$328,913,541	15,000
Health Services	\$615,069,203	\$431,624,900	\$364,944,552	5,904
Miscellaneous Services	\$627,927,835	\$257,248,643	\$223,012,164	5,045
Households	\$23,877,610	\$23,877,610	\$23,371,787	1,432
<b>Total</b>	<b>\$30,743,437,243</b>	<b>\$11,104,442,175</b>	<b>\$6,472,511,909</b>	<b>100,268</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Total Annual Impact of Exploration, Drilling, and Operations in  
the Barnett Shale on Business Activity in Texas 2011  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Jobs)</b>
Agricultural Products & Services	\$360,623,686	\$99,696,849	\$67,896,303	894
Forestry & Fishery Products	\$7,885,258	\$8,967,732	\$3,321,344	28
Coal Mining	\$48,317,872	\$14,013,564	\$14,761,811	56
Crude Petroleum & Natural Gas	\$15,784,887,631	\$3,459,294,054	\$1,595,425,566	7,971
Miscellaneous Mining	\$18,348,725	\$7,872,562	\$4,627,294	35
New Construction	\$1,363,687,152	\$619,900,815	\$510,837,207	7,350
Maintenance & Repair Construction	\$1,261,339,936	\$677,843,762	\$558,587,384	7,763
Food Products & Tobacco	\$828,905,911	\$213,574,978	\$109,108,092	1,569
Textile Mill Products	\$10,203,227	\$3,027,769	\$2,563,717	35
Apparel	\$169,524,629	\$93,515,383	\$47,385,594	1,051
Paper & Allied Products	\$117,138,955	\$53,012,924	\$23,965,776	232
Printing & Publishing	\$179,321,473	\$90,085,963	\$58,798,497	774
Chemicals & Petroleum Refining	\$954,506,588	\$161,839,183	\$75,994,441	526
Rubber & Leather Products	\$111,555,962	\$47,384,162	\$27,695,364	451
Lumber Products & Furniture	\$50,351,605	\$16,633,784	\$11,861,458	148
Stone, Clay, & Glass Products	\$116,075,835	\$59,323,123	\$31,024,556	395
Primary Metal	\$197,025,494	\$59,787,957	\$44,502,072	668
Fabricated Metal Products	\$397,277,270	\$151,104,538	\$97,549,974	1,613
Machinery, Except Electrical	\$228,832,844	\$96,472,819	\$68,919,962	736
Electric & Electronic Equipment	\$110,672,701	\$60,562,897	\$36,197,114	211
Motor Vehicles & Equipment	\$58,852,855	\$13,517,272	\$8,778,249	77
Transp. Equip., Exc. Motor Vehicles	\$30,281,456	\$12,681,626	\$8,285,370	49
Instruments & Related Products	\$25,298,575	\$10,862,700	\$8,259,858	56
Miscellaneous Manufacturing	\$49,098,461	\$18,544,452	\$12,791,658	127
Transportation	\$665,379,650	\$439,161,629	\$290,447,455	3,584
Communication	\$487,446,977	\$301,160,682	\$128,574,530	989
Electric, Gas, Water, Sanitary Services	\$1,359,287,724	\$304,592,321	\$132,913,642	394
Wholesale Trade	\$861,744,711	\$582,654,949	\$335,965,294	3,467
Retail Trade	\$2,349,098,606	\$1,947,543,426	\$1,164,572,665	30,801
Finance	\$394,690,645	\$217,294,477	\$126,529,905	941
Insurance	\$423,925,010	\$254,440,996	\$152,110,649	1,527
Real Estate	\$3,860,999,261	\$884,807,516	\$142,561,214	1,192
Hotels, Lodging Places, Amusements	\$232,652,717	\$121,796,007	\$79,903,514	1,723
Personal Services	\$500,005,343	\$309,167,696	\$240,537,286	3,960
Business Services	\$1,184,472,126	\$718,462,675	\$586,081,283	6,672
Eating & Drinking Places	\$1,159,605,449	\$679,864,795	\$361,724,977	16,435
Health Services	\$771,271,950	\$540,798,540	\$457,251,177	7,361
Miscellaneous Services	\$678,871,940	\$277,228,978	\$240,334,518	5,436
Households	\$31,582,151	\$31,582,151	\$30,914,302	1,914
<b>Total</b>	<b>\$37,441,048,364</b>	<b>\$13,660,077,705</b>	<b>\$7,899,561,074</b>	<b>119,216</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group





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# The Cumulative Impact of Exploration, Drilling, and Operations in the Barnett Shale: 2001-2011



**The Cumulative Impact of Exploration, Drilling, and Operations in the  
Barnett Shale on Business Activity in the Barnett Shale Region 2001-2011  
Detailed Industrial Category**

Category	Total Expenditures (2011 Dollars)	Gross Product (2011 Dollars)	Personal Income (2011 Dollars)	Employment (Person- Years)
Agricultural Products & Services	\$995,552,802	\$277,186,734	\$188,779,742	3,067
Forestry & Fishery Products	\$12,002,488	\$14,777,729	\$5,481,233	63
Coal Mining	\$52,139,516	\$15,168,315	\$15,983,288	95
Crude Petroleum & Natural Gas	\$83,494,401,712	\$18,299,015,364	\$8,439,483,681	42,431
Miscellaneous Mining	\$53,641,683	\$22,837,062	\$13,424,516	147
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$5,878,500,882	\$3,176,077,085	\$2,617,285,476	37,821
Food Products & Tobacco	\$1,206,138,407	\$310,327,968	\$158,530,011	2,693
Textile Mill Products	\$3,494,087	\$1,191,961	\$1,008,448	24
Apparel	\$340,514,976	\$187,101,098	\$94,807,127	2,606
Paper & Allied Products	\$193,422,653	\$88,967,730	\$40,221,332	615
Printing & Publishing	\$462,482,042	\$232,583,018	\$151,811,581	2,602
Chemicals & Petroleum Refining	\$1,437,970,468	\$253,387,588	\$118,980,078	868
Rubber & Leather Products	\$278,743,308	\$116,992,201	\$68,393,136	1,342
Lumber Products & Furniture	\$152,078,932	\$48,760,987	\$34,764,232	669
Stone, Clay, & Glass Products	\$350,278,250	\$178,051,245	\$93,121,401	1,466
Primary Metal	\$253,194,211	\$76,164,976	\$56,693,500	842
Fabricated Metal Products	\$1,035,937,722	\$386,134,529	\$249,288,964	4,321
Machinery, Except Electrical	\$674,500,358	\$285,938,865	\$204,275,919	2,160
Electric & Electronic Equipment	\$300,700,462	\$166,099,359	\$99,299,153	786
Motor Vehicles & Equipment	\$171,825,376	\$40,947,087	\$26,601,514	337
Transp. Equip., Exc. Motor Vehicles	\$72,079,051	\$30,247,235	\$19,765,165	188
Instruments & Related Products	\$32,202,075	\$13,924,685	\$10,583,974	105
Miscellaneous Manufacturing	\$110,453,915	\$40,948,441	\$28,242,918	408
Transportation	\$2,170,964,247	\$1,417,959,346	\$937,787,407	13,287
Communication	\$968,507,771	\$599,063,129	\$255,759,055	2,278
Electric, Gas, Water, Sanitary Services	\$3,294,882,242	\$737,361,929	\$321,765,268	1,340
Wholesale Trade	\$2,141,772,028	\$1,447,292,630	\$834,521,839	9,617
Retail Trade	\$6,873,986,701	\$5,702,110,510	\$3,409,679,977	91,627
Finance	\$1,347,372,585	\$750,359,610	\$436,936,531	3,919
Insurance	\$801,545,349	\$482,163,971	\$288,257,154	3,483
Real Estate	\$11,361,895,893	\$2,949,475,441	\$475,224,849	4,267
Hotels, Lodging Places, Amusements	\$641,331,260	\$335,657,935	\$220,203,311	5,483
Personal Services	\$1,429,252,073	\$882,178,847	\$686,348,687	11,839
Business Services	\$2,341,408,423	\$1,358,673,090	\$1,108,329,234	13,813
Eating & Drinking Places	\$3,753,034,595	\$2,202,003,901	\$1,171,583,961	54,289
Health Services	\$2,074,120,394	\$1,450,706,601	\$1,226,586,129	20,737
Miscellaneous Services	\$2,295,650,520	\$949,139,379	\$822,823,994	20,190
Households	\$91,382,820	\$91,382,820	\$89,448,985	6,340
<b>Total</b>	<b>\$139,149,362,276</b>	<b>\$45,618,360,402</b>	<b>\$25,022,082,767</b>	<b>368,163</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Cumulative Impact of Exploration, Drilling, and Operations in the  
Barnett Shale on Business Activity in Texas 2001-2011  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Person-Years)</b>
Agricultural Products & Services	\$1,303,401,063	\$362,416,814	\$246,826,131	4,044
Forestry & Fishery Products	\$27,336,895	\$33,320,099	\$12,357,876	160
Coal Mining	\$180,325,844	\$52,436,190	\$55,255,133	320
Crude Petroleum & Natural Gas	\$89,183,805,788	\$19,545,931,211	\$9,014,559,757	45,322
Miscellaneous Mining	\$74,539,204	\$31,739,405	\$18,657,364	200
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$6,283,979,058	\$3,392,767,663	\$2,795,850,806	40,398
Food Products & Tobacco	\$3,154,302,254	\$811,561,148	\$414,584,829	7,047
Textile Mill Products	\$36,567,611	\$12,282,110	\$10,390,720	200
Apparel	\$634,587,035	\$348,759,976	\$176,721,807	4,885
Paper & Allied Products	\$419,690,382	\$192,776,081	\$87,152,601	1,321
Printing & Publishing	\$669,929,782	\$337,002,169	\$219,968,617	3,844
Chemicals & Petroleum Refining	\$3,921,892,349	\$688,761,626	\$323,413,083	2,442
Rubber & Leather Products	\$418,163,225	\$175,659,351	\$102,689,232	2,002
Lumber Products & Furniture	\$190,258,369	\$61,187,856	\$43,623,385	841
Stone, Clay, & Glass Products	\$402,698,712	\$205,086,474	\$107,260,787	1,682
Primary Metal	\$613,228,615	\$184,330,830	\$137,207,460	2,082
Fabricated Metal Products	\$1,081,223,095	\$402,771,563	\$260,029,248	4,604
Machinery, Except Electrical	\$1,124,901,869	\$476,618,009	\$340,498,556	3,643
Electric & Electronic Equipment	\$461,031,821	\$254,372,003	\$152,072,747	1,201
Motor Vehicles & Equipment	\$220,401,798	\$52,417,162	\$34,053,487	440
Transp. Equip., Exc. Motor Vehicles	\$117,049,075	\$49,149,179	\$32,115,064	280
Instruments & Related Products	\$97,445,986	\$42,088,447	\$31,992,064	320
Miscellaneous Manufacturing	\$188,125,889	\$69,885,890	\$48,201,992	721
Transportation	\$2,409,135,089	\$1,576,040,371	\$1,042,336,675	14,814
Communication	\$1,698,225,364	\$1,048,962,767	\$447,835,934	4,044
Electric, Gas, Water, Sanitary Services	\$5,303,661,318	\$1,186,660,223	\$517,828,140	2,242
Wholesale Trade	\$3,275,422,104	\$2,213,452,124	\$1,276,295,701	14,534
Retail Trade	\$7,352,211,045	\$6,098,241,913	\$3,646,553,536	98,052
Finance	\$1,633,780,623	\$908,363,695	\$528,941,542	4,845
Insurance	\$1,604,796,975	\$965,185,203	\$577,025,932	7,047
Real Estate	\$15,977,164,870	\$4,335,314,790	\$698,512,634	6,206
Hotels, Lodging Places, Amusements	\$783,983,577	\$409,923,435	\$268,923,018	6,686
Personal Services	\$1,555,529,008	\$960,659,789	\$747,409,619	12,892
Business Services	\$3,667,953,983	\$2,150,775,425	\$1,754,481,646	21,901
Eating & Drinking Places	\$3,946,701,388	\$2,315,308,578	\$1,231,867,057	57,054
Health Services	\$2,566,308,545	\$1,793,193,942	\$1,516,161,191	25,704
Miscellaneous Services	\$2,399,992,565	\$989,779,255	\$858,054,940	21,060
Households	\$119,961,718	\$119,961,718	\$117,422,821	8,288
<b>Total</b>	<b>\$165,099,713,894</b>	<b>\$54,855,144,485</b>	<b>\$29,895,133,131</b>	<b>433,367</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



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# The Cumulative Impact of Royalty and Lease Payments Associated with Activity in the Barnett Shale: 2001-2011



**The Cumulative Impact of Royalty and Lease Payments Associated with  
Activity in the Barnett Shale on Business Activity in the  
Barnett Shale Region 2001-2011  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Person-Years)</b>
Agricultural Products & Services	\$285,105,924	\$77,524,496	\$52,798,016	341
Forestry & Fishery Products	\$3,361,198	\$3,523,542	\$1,307,772	0
Coal Mining	\$12,311,192	\$3,551,020	\$3,736,541	0
Crude Petroleum & Natural Gas	\$128,885,947	\$28,154,013	\$12,979,418	0
Miscellaneous Mining	\$3,991,519	\$1,708,243	\$1,008,561	0
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$441,397,887	\$226,197,369	\$186,397,735	1,272
Food Products & Tobacco	\$285,576,207	\$73,457,171	\$37,522,423	207
Textile Mill Products	\$940,691	\$203,818	\$170,496	0
Apparel	\$85,738,636	\$47,424,073	\$24,018,691	0
Paper & Allied Products	\$67,574,788	\$29,902,926	\$13,519,191	0
Printing & Publishing	\$120,114,371	\$60,818,733	\$39,695,713	0
Chemicals & Petroleum Refining	\$267,153,113	\$40,460,855	\$18,992,492	0
Rubber & Leather Products	\$62,756,002	\$26,992,595	\$15,778,426	0
Lumber Products & Furniture	\$30,298,629	\$10,616,958	\$7,571,684	0
Stone, Clay, & Glass Products	\$43,137,120	\$23,915,988	\$12,497,779	0
Primary Metal	\$12,987,082	\$3,591,125	\$2,669,797	0
Fabricated Metal Products	\$90,130,127	\$32,366,441	\$20,901,530	0
Machinery, Except Electrical	\$36,227,353	\$14,523,901	\$10,372,754	0
Electric & Electronic Equipment	\$38,907,525	\$20,490,204	\$12,252,183	0
Motor Vehicles & Equipment	\$39,629,248	\$8,917,368	\$5,792,493	0
Transp. Equip., Exc. Motor Vehicles	\$13,369,530	\$5,724,110	\$3,726,600	0
Instruments & Related Products	\$6,861,514	\$2,813,356	\$2,141,869	0
Miscellaneous Manufacturing	\$25,022,130	\$9,867,166	\$6,810,961	0
Transportation	\$490,520,623	\$337,682,024	\$223,331,507	1,332
Communication	\$426,276,819	\$263,975,235	\$112,705,377	496
Electric, Gas, Water, Sanitary Services	\$1,073,241,240	\$240,871,307	\$105,109,607	0
Wholesale Trade	\$421,467,756	\$285,209,959	\$164,449,123	685
Retail Trade	\$3,580,116,758	\$2,966,607,105	\$1,773,949,974	46,164
Finance	\$198,989,060	\$105,088,902	\$61,195,451	0
Insurance	\$178,798,008	\$107,013,763	\$63,973,798	0
Real Estate	\$2,939,799,443	\$239,345,658	\$38,565,006	0
Hotels, Lodging Places, Amusements	\$263,865,700	\$139,225,656	\$91,333,931	1,495
Personal Services	\$790,203,392	\$491,549,465	\$382,437,552	5,155
Business Services	\$523,218,178	\$296,101,850	\$241,547,393	1,259
Eating & Drinking Places	\$1,553,904,673	\$910,018,114	\$484,186,958	21,814
Health Services	\$933,975,059	\$662,624,894	\$560,263,251	8,394
Miscellaneous Services	\$702,502,763	\$274,575,719	\$238,027,795	3,969
Households	\$16,416,927	\$16,416,927	\$16,070,578	76
<b>Total</b>	<b>\$16,194,774,132</b>	<b>\$8,089,052,049</b>	<b>\$5,049,810,427</b>	<b>92,657</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Cumulative Impact of Royalty and Lease Payments Associated with Activity  
in the Barnett Shale on Business Activity in Texas 2001-2011  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Person-Years)</b>
Agricultural Products & Services	\$426,060,635	\$115,854,774	\$78,890,684	587
Forestry & Fishery Products	\$10,754,833	\$11,280,661	\$4,173,763	0
Coal Mining	\$57,594,636	\$16,662,186	\$17,524,873	0
Crude Petroleum & Natural Gas	\$308,258,653	\$67,314,245	\$31,056,737	0
Miscellaneous Mining	\$7,427,325	\$3,171,402	\$1,873,263	0
New Construction	\$0	\$0	\$0	0
Maintenance & Repair Construction	\$557,065,838	\$285,475,497	\$235,242,457	1,795
Food Products & Tobacco	\$871,182,548	\$224,085,037	\$114,474,475	512
Textile Mill Products	\$11,469,631	\$2,596,277	\$2,218,338	0
Apparel	\$158,824,809	\$87,829,766	\$44,490,008	0
Paper & Allied Products	\$137,397,304	\$60,798,903	\$27,482,747	0
Printing & Publishing	\$193,398,023	\$97,935,530	\$63,904,576	0
Chemicals & Petroleum Refining	\$722,660,688	\$109,421,593	\$51,391,505	0
Rubber & Leather Products	\$104,968,484	\$45,163,725	\$26,390,010	0
Lumber Products & Furniture	\$43,397,271	\$15,199,726	\$10,861,642	0
Stone, Clay, & Glass Products	\$56,362,226	\$31,270,355	\$16,333,543	0
Primary Metal	\$45,401,991	\$12,562,368	\$9,341,669	0
Fabricated Metal Products	\$114,794,901	\$41,228,229	\$26,611,844	0
Machinery, Except Electrical	\$70,962,179	\$28,419,379	\$20,310,120	0
Electric & Electronic Equipment	\$68,784,921	\$36,232,860	\$21,641,123	0
Motor Vehicles & Equipment	\$55,376,298	\$12,463,775	\$8,092,827	0
Transp. Equip., Exc. Motor Vehicles	\$24,073,079	\$10,270,085	\$6,712,528	0
Instruments & Related Products	\$19,365,272	\$7,936,722	\$6,030,594	0
Miscellaneous Manufacturing	\$44,399,631	\$17,524,873	\$12,094,052	0
Transportation	\$651,756,021	\$448,030,401	\$296,312,490	1,837
Communication	\$679,674,220	\$419,972,529	\$179,299,251	583
Electric, Gas, Water, Sanitary Services	\$1,655,373,368	\$371,588,105	\$162,144,101	0
Wholesale Trade	\$699,614,617	\$473,434,483	\$272,987,073	1,126
Retail Trade	\$4,333,778,653	\$3,591,103,623	\$2,147,367,949	55,525
Finance	\$294,800,734	\$155,686,271	\$90,656,094	0
Insurance	\$404,961,773	\$242,390,436	\$144,890,358	0
Real Estate	\$4,042,256,130	\$397,041,483	\$63,970,305	0
Hotels, Lodging Places, Amusements	\$343,932,820	\$181,139,650	\$118,828,991	1,757
Personal Services	\$958,782,264	\$596,355,075	\$463,969,573	6,980
Business Services	\$904,252,221	\$532,286,178	\$434,219,191	2,304
Eating & Drinking Places	\$1,880,337,525	\$1,101,199,586	\$585,896,021	26,099
Health Services	\$1,200,614,008	\$850,946,373	\$719,505,718	10,699
Miscellaneous Services	\$858,587,316	\$335,946,802	\$291,243,176	5,247
Households	\$27,351,290	\$27,351,290	\$26,767,949	564
<b>Total</b>	<b>\$23,046,054,139</b>	<b>\$11,065,170,251</b>	<b>\$6,835,201,617</b>	<b>115,613</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group

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**The Cumulative Impact of Pipeline Development and  
Operations and Other Direct Support Industries  
Associated with Activity in the Barnett Shale: 2001-2011**



**The Cumulative Impact of Pipeline Development and Operations and Other  
Direct Support Industries Associated with Activity in the Barnett Shale on  
Business Activity in the Barnett Shale Region 2001-2011  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Person-Years)</b>
Agricultural Products & Services	\$348,104,127	\$95,886,015	\$65,300,680	533
Forestry & Fishery Products	\$3,663,643	\$3,514,410	\$1,304,409	0
Coal Mining	\$9,407,022	\$2,703,754	\$2,850,492	0
Crude Petroleum & Natural Gas	\$165,849,814	\$35,858,867	\$16,536,120	0
Miscellaneous Mining	\$17,127,327	\$7,540,417	\$4,426,488	0
New Construction	\$8,410,460,468	\$3,823,201,888	\$3,150,558,491	45,331
Maintenance & Repair Construction	\$390,731,037	\$206,581,991	\$170,240,431	2,095
Food Products & Tobacco	\$338,022,247	\$87,737,003	\$44,817,166	524
Textile Mill Products	\$1,479,379	\$343,793	\$292,015	0
Apparel	\$124,527,409	\$69,424,611	\$35,174,948	756
Paper & Allied Products	\$42,547,730	\$18,709,886	\$8,458,089	0
Printing & Publishing	\$130,415,523	\$64,672,558	\$42,212,573	427
Chemicals & Petroleum Refining	\$299,140,249	\$46,500,663	\$21,833,616	39
Rubber & Leather Products	\$88,986,591	\$38,831,607	\$22,700,783	395
Lumber Products & Furniture	\$50,752,999	\$17,557,283	\$12,524,249	0
Stone, Clay, & Glass Products	\$178,238,121	\$89,841,748	\$46,989,685	531
Primary Metal	\$205,216,953	\$63,520,934	\$47,285,068	756
Fabricated Metal Products	\$1,045,002,129	\$407,769,144	\$263,256,186	4,441
Machinery, Except Electrical	\$82,338,630	\$33,951,453	\$24,260,683	233
Electric & Electronic Equipment	\$46,165,853	\$24,902,459	\$14,881,661	0
Motor Vehicles & Equipment	\$40,352,043	\$8,300,923	\$5,398,062	0
Transp. Equip., Exc. Motor Vehicles	\$13,529,155	\$5,552,595	\$3,628,539	0
Instruments & Related Products	\$7,232,717	\$3,130,558	\$2,378,875	0
Miscellaneous Manufacturing	\$34,213,975	\$13,253,315	\$9,138,150	0
Transportation	\$756,884,349	\$498,219,822	\$329,510,512	3,287
Communication	\$254,555,592	\$157,680,411	\$67,315,947	214
Electric, Gas, Water, Sanitary Services	\$748,747,950	\$168,622,787	\$73,581,579	0
Wholesale Trade	\$632,608,959	\$428,230,255	\$246,922,707	2,274
Retail Trade	\$2,338,115,248	\$1,937,168,723	\$1,158,359,407	29,956
Finance	\$310,168,504	\$168,060,072	\$97,862,723	547
Insurance	\$209,483,481	\$125,084,913	\$74,778,881	659
Real Estate	\$2,085,282,880	\$270,378,107	\$43,559,398	234
Hotels, Lodging Places, Amusements	\$200,689,849	\$104,933,347	\$68,838,557	1,529
Personal Services	\$469,467,863	\$288,268,940	\$224,278,066	3,640
Business Services	\$1,526,874,870	\$979,397,851	\$798,938,748	9,477
Eating & Drinking Places	\$1,035,421,612	\$606,713,777	\$322,803,617	14,029
Health Services	\$704,625,304	\$493,209,926	\$417,016,794	6,379
Miscellaneous Services	\$751,608,165	\$310,405,787	\$269,096,582	5,653
Households	\$33,396,859	\$33,396,859	\$32,685,911	1,889
<b>Total</b>	<b>\$24,131,436,625</b>	<b>\$11,739,059,452</b>	<b>\$8,241,996,890</b>	<b>135,827</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group





**The Cumulative Impact of Pipeline Development and Operations and Other  
Direct Support Industries Associated with Activity in the Barnett Shale  
on Business Activity in Texas 2001-2011  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Person-Years)</b>
Agricultural Products & Services	\$427,621,452	\$117,695,984	\$80,151,688	601
Forestry & Fishery Products	\$9,318,790	\$9,032,835	\$3,330,542	0
Coal Mining	\$50,664,614	\$14,583,738	\$15,365,911	0
Crude Petroleum & Natural Gas	\$342,928,115	\$74,180,261	\$34,222,164	0
Miscellaneous Mining	\$25,643,494	\$11,278,427	\$6,619,032	0
New Construction	\$8,410,460,468	\$3,823,201,888	\$3,150,558,491	45,331
Maintenance & Repair Construction	\$462,894,923	\$244,147,257	\$201,211,856	2,450
Food Products & Tobacco	\$908,254,036	\$235,635,871	\$120,395,742	1,572
Textile Mill Products	\$12,960,520	\$3,019,355	\$2,548,370	0
Apparel	\$214,542,436	\$119,563,106	\$60,597,368	1,185
Paper & Allied Products	\$143,793,643	\$63,238,252	\$28,587,155	0
Printing & Publishing	\$205,568,475	\$102,086,169	\$66,636,078	604
Chemicals & Petroleum Refining	\$983,763,150	\$152,767,604	\$71,732,817	597
Rubber & Leather Products	\$140,151,913	\$61,135,637	\$35,719,226	609
Lumber Products & Furniture	\$65,189,479	\$22,565,265	\$16,080,800	0
Stone, Clay, & Glass Products	\$228,470,159	\$115,332,644	\$60,328,233	610
Primary Metal	\$509,219,740	\$157,519,514	\$117,250,229	1,863
Fabricated Metal Products	\$1,174,310,543	\$458,025,267	\$295,686,559	4,957
Machinery, Except Electrical	\$127,443,707	\$52,498,094	\$37,493,833	590
Electric & Electronic Equipment	\$120,715,339	\$65,063,322	\$38,856,327	0
Motor Vehicles & Equipment	\$74,163,440	\$15,315,449	\$9,932,754	0
Transp. Equip., Exc. Motor Vehicles	\$38,175,080	\$15,677,098	\$10,235,530	0
Instruments & Related Products	\$32,935,363	\$14,213,678	\$10,824,263	0
Miscellaneous Manufacturing	\$58,873,223	\$22,825,990	\$15,744,382	0
Transportation	\$905,091,703	\$596,545,551	\$394,543,111	4,387
Communication	\$553,702,665	\$342,330,972	\$146,148,572	1,193
Electric, Gas, Water, Sanitary Services	\$1,143,536,668	\$257,612,404	\$112,405,804	0
Wholesale Trade	\$1,133,553,451	\$767,345,182	\$442,465,915	4,610
Retail Trade	\$2,619,866,846	\$2,170,638,921	\$1,297,994,774	33,729
Finance	\$397,310,153	\$215,030,243	\$125,206,525	547
Insurance	\$510,077,606	\$304,601,647	\$182,094,880	1,776
Real Estate	\$2,851,347,950	\$398,025,042	\$64,129,761	620
Hotels, Lodging Places, Amusements	\$275,535,095	\$143,810,464	\$94,356,956	1,798
Personal Services	\$535,174,421	\$329,025,624	\$255,989,185	4,168
Business Services	\$2,514,349,209	\$1,620,039,716	\$1,321,527,243	15,328
Eating & Drinking Places	\$1,181,711,748	\$692,407,979	\$368,403,400	16,030
Health Services	\$894,595,449	\$625,864,416	\$529,160,941	7,910
Miscellaneous Services	\$812,400,018	\$334,416,729	\$289,908,572	5,968
Households	\$40,092,665	\$40,092,665	\$39,251,619	2,309
<b>Total</b>	<b>\$31,136,407,751</b>	<b>\$14,808,390,261</b>	<b>\$10,153,696,609</b>	<b>161,340</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



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# The Cumulative Total Impact of Exploration, Drilling, and Operations in the Barnett Shale: 2001-2011



**The Cumulative Total Annual Impact of Exploration, Drilling, and Operations  
in the Barnett Shale on Business Activity in the  
Barnett Shale Region 2001-2011  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Person- Years)</b>
Agricultural Products & Services	\$1,628,762,853	\$450,597,245	\$306,878,438	3,940
Forestry & Fishery Products	\$19,027,328	\$21,815,681	\$8,093,413	63
Coal Mining	\$73,857,730	\$21,423,089	\$22,570,321	95
Crude Petroleum & Natural Gas	\$83,789,137,472	\$18,363,028,244	\$8,468,999,219	42,431
Miscellaneous Mining	\$74,760,529	\$32,085,722	\$18,859,565	147
New Construction	\$8,410,460,468	\$3,823,201,888	\$3,150,558,491	45,331
Maintenance & Repair Construction	\$6,710,629,805	\$3,608,856,444	\$2,973,923,642	41,187
Food Products & Tobacco	\$1,829,736,862	\$471,522,142	\$240,869,600	3,424
Textile Mill Products	\$5,914,157	\$1,739,573	\$1,470,959	24
Apparel	\$550,781,022	\$303,949,782	\$154,000,766	3,361
Paper & Allied Products	\$303,545,171	\$137,580,542	\$62,198,612	615
Printing & Publishing	\$713,011,935	\$358,074,308	\$233,719,868	3,029
Chemicals & Petroleum Refining	\$2,004,263,830	\$340,349,106	\$159,806,186	907
Rubber & Leather Products	\$430,485,902	\$182,816,403	\$106,872,346	1,737
Lumber Products & Furniture	\$233,130,561	\$76,935,229	\$54,860,165	669
Stone, Clay, & Glass Products	\$571,653,491	\$291,808,982	\$152,608,865	1,997
Primary Metal	\$471,398,246	\$143,277,035	\$106,648,365	1,598
Fabricated Metal Products	\$2,171,069,979	\$826,270,114	\$533,446,681	8,762
Machinery, Except Electrical	\$793,066,341	\$334,414,218	\$238,909,355	2,394
Electric & Electronic Equipment	\$385,773,840	\$211,492,022	\$126,432,997	786
Motor Vehicles & Equipment	\$251,806,667	\$58,165,377	\$37,792,069	337
Transp. Equip., Exc. Motor Vehicles	\$98,977,737	\$41,523,940	\$27,120,304	188
Instruments & Related Products	\$46,296,306	\$19,868,599	\$15,104,718	105
Miscellaneous Manufacturing	\$169,690,020	\$64,068,922	\$44,192,029	408
Transportation	\$3,418,369,219	\$2,253,861,192	\$1,490,629,426	17,906
Communication	\$1,649,340,183	\$1,020,718,775	\$435,780,378	2,988
Electric, Gas, Water, Sanitary Services	\$5,116,871,431	\$1,146,856,023	\$500,456,453	1,340
Wholesale Trade	\$3,195,848,743	\$2,160,732,844	\$1,245,893,669	12,576
Retail Trade	\$12,792,218,707	\$10,605,886,338	\$6,341,989,358	167,748
Finance	\$1,856,530,149	\$1,023,508,584	\$595,994,705	4,466
Insurance	\$1,189,826,837	\$714,262,647	\$427,009,833	4,141
Real Estate	\$16,386,978,215	\$3,459,199,206	\$557,349,252	4,501
Hotels, Lodging Places, Amusements	\$1,105,886,809	\$579,816,938	\$380,375,799	8,507
Personal Services	\$2,688,923,328	\$1,661,997,252	\$1,293,064,305	20,634
Business Services	\$4,391,501,471	\$2,634,172,791	\$2,148,815,376	24,548
Eating & Drinking Places	\$6,342,360,880	\$3,718,735,792	\$1,978,574,536	90,133
Health Services	\$3,712,720,756	\$2,606,541,422	\$2,203,866,174	35,510
Miscellaneous Services	\$3,749,761,447	\$1,534,120,885	\$1,329,948,371	29,812
Households	\$141,196,605	\$141,196,605	\$138,205,474	8,304
<b>Total</b>	<b>\$179,475,573,033</b>	<b>\$65,446,471,904</b>	<b>\$38,313,890,084</b>	<b>596,648</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



**The Cumulative Total Impact of Exploration, Drilling, and Operations in  
the Barnett Shale on Business Activity in Texas 2001-2011  
Detailed Industrial Category**

<b>Category</b>	<b>Total Expenditures (2011 Dollars)</b>	<b>Gross Product (2011 Dollars)</b>	<b>Personal Income (2011 Dollars)</b>	<b>Employment (Person-Years)</b>
Agricultural Products & Services	\$2,157,083,151	\$595,967,572	\$405,868,503	5,231
Forestry & Fishery Products	\$47,410,518	\$53,633,594	\$19,862,181	160
Coal Mining	\$288,585,095	\$83,682,114	\$88,145,917	320
Crude Petroleum & Natural Gas	\$89,834,992,556	\$19,687,425,717	\$9,079,838,657	45,322
Miscellaneous Mining	\$107,610,023	\$46,189,235	\$27,149,660	200
New Construction	\$8,410,460,468	\$3,823,201,888	\$3,150,558,491	45,331
Maintenance & Repair Construction	\$7,303,939,820	\$3,922,390,417	\$3,232,305,120	44,644
Food Products & Tobacco	\$4,933,738,838	\$1,271,282,056	\$649,455,045	9,130
Textile Mill Products	\$60,997,762	\$17,897,743	\$15,157,427	200
Apparel	\$1,007,954,280	\$556,152,848	\$281,809,183	6,069
Paper & Allied Products	\$700,881,329	\$316,813,236	\$143,222,504	1,321
Printing & Publishing	\$1,068,896,280	\$537,023,868	\$350,509,272	4,448
Chemicals & Petroleum Refining	\$5,628,316,188	\$950,950,823	\$446,537,405	3,039
Rubber & Leather Products	\$663,283,622	\$281,958,714	\$164,798,468	2,611
Lumber Products & Furniture	\$298,845,119	\$98,952,847	\$70,565,828	841
Stone, Clay, & Glass Products	\$687,531,096	\$351,689,473	\$183,922,563	2,292
Primary Metal	\$1,167,850,346	\$354,412,712	\$263,799,359	3,945
Fabricated Metal Products	\$2,370,328,540	\$902,025,059	\$582,327,651	9,561
Machinery, Except Electrical	\$1,323,307,756	\$557,535,482	\$398,302,508	4,234
Electric & Electronic Equipment	\$650,532,081	\$355,668,185	\$212,570,197	1,201
Motor Vehicles & Equipment	\$349,941,536	\$80,196,385	\$52,079,068	440
Transp. Equip., Exc. Motor Vehicles	\$179,297,235	\$75,096,362	\$49,063,122	280
Instruments & Related Products	\$149,746,622	\$64,238,846	\$48,846,920	320
Miscellaneous Manufacturing	\$291,398,743	\$110,236,752	\$76,040,426	721
Transportation	\$3,965,982,814	\$2,620,616,322	\$1,733,192,276	21,038
Communication	\$2,931,602,249	\$1,811,266,268	\$773,283,756	5,819
Electric, Gas, Water, Sanitary Services	\$8,102,571,354	\$1,815,860,732	\$792,378,045	2,242
Wholesale Trade	\$5,108,590,172	\$3,454,231,788	\$1,991,748,689	20,270
Retail Trade	\$14,305,856,544	\$11,859,984,458	\$7,091,916,259	187,306
Finance	\$2,325,891,510	\$1,279,080,209	\$744,804,160	5,391
Insurance	\$2,519,836,354	\$1,512,177,287	\$904,011,170	8,823
Real Estate	\$22,870,768,950	\$5,130,381,315	\$826,612,701	6,826
Hotels, Lodging Places, Amusements	\$1,403,451,492	\$734,873,549	\$482,108,965	10,241
Personal Services	\$3,049,485,693	\$1,886,040,488	\$1,467,368,377	24,041
Business Services	\$7,086,555,414	\$4,303,101,319	\$3,510,228,079	39,532
Eating & Drinking Places	\$7,008,750,661	\$4,108,916,143	\$2,186,166,477	99,182
Health Services	\$4,661,518,002	\$3,270,004,730	\$2,764,827,850	44,312
Miscellaneous Services	\$4,070,979,900	\$1,660,142,786	\$1,439,206,688	32,274
Households	\$187,405,674	\$187,405,674	\$183,442,390	11,160
<b>Total</b>	<b>\$219,282,175,784</b>	<b>\$80,728,704,998</b>	<b>\$46,884,031,357</b>	<b>710,319</b>

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group

