TEXAS INDUSTRY CONCENTRATIONS
WHERE THE STATE’S KEY SECTORS CLUSTER

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Across the diverse geography of Texas, each region specializes in its own unique array of advanced industries, where specific infrastructure and know-how have developed over years of growth.

Examining more than 40 advanced business sectors, this report identifies the Workforce Development regions of Texas where each industry is most highly concentrated. Using this approach, businesses can identify the regions with the largest concentrations of workers in a given sector.

An existing cluster of firms in a particular industry leads to the creation and maintenance of a trained labor force from which other businesses can draw. As a result, regions in Texas with specific labor pools continue to attract new expansions and relocations in those same sectors.

This report’s industrial concentration assessment, also called location quotient analysis, comes from Q4 2010 Texas Workforce Commission data. The analysis compares the portion of a Texas region’s workforce employed in a certain sector to the portion of the entire U.S. workforce employed in that sector. The comparison provides a ratio that measures how intensively a certain region is specialized in a particular industry, and ranks it as “moderate,” “above average,” or “high.”

This report focuses on a selection of advanced sectors that are key to the state’s future economic growth, such as life sciences, IT, and aerospace. The regions highlighted in this report do not represent the only areas in Texas where a relevant labor force can be found, but rather, represent the areas of the state with the greatest concentrations of employment in these given industries.

**Key**

<table>
<thead>
<tr>
<th>Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moderate</td>
<td>Regional concentration is similar to the national average for that industry</td>
</tr>
<tr>
<td>Above Average</td>
<td>Regional concentration is 20% to 99% above the national average for that industry</td>
</tr>
<tr>
<td>High</td>
<td>Regional concentration is double the national average for that industry, or more</td>
</tr>
</tbody>
</table>
**BIOTECH & LIFE SCIENCES**

**Medical Equipment & Supplies Manufacturing**

- **Capital Region**
  - **Biological Product Mfg.**
  - **Consumable Pharmaceuticals Mfg.**

- **Tarrant County**
  - **Consumable Pharmaceuticals Mfg.**

- **Alamo Region**
  - **Medical Equipment Mfg.**

- **Concho Valley**
  - **Medical Supplies Mfg.**

- **North Central Region**
  - **Medical Equipment Mfg.**

- **Dallas County**
  - **Ophthalmic Goods Mfg.**

- **East Texas**
  - **Surgical Instrument Mfg.**

- **Capital Region**
  - **Surgical Appliance Mfg.**

**Concentration**
- Moderate
- Above Average
- High

➔ **Related workforce:** Machinery Mfg. (pg. 14-16)

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**Pharmaceutical & Medicine Manufacturing**

- **Tarrant County**
  - **Consumable Pharmaceuticals Mfg.**

- **Alamo Region**
  - **Consumable Pharmaceuticals Mfg.**

- **Capital Region**
  - **Biological Product Mfg.**
  - **Consumable Pharmaceuticals Mfg.**

**Concentration**
- Moderate
- Above Average
- High

➔ **Related workforce:** Chemical Mfg., pg. 18
**Specialized Hospitals**

This sector provides treatment to inpatients with specific types of diseases or medical conditions and does not provide general emergency or surgical care.

**Medical and Diagnostic Laboratories**

(Brief text on the map about the regions and their respective concentrations of laboratories.)
Scientific Research and Development Services

This sector conducts original investigation in the fields of biotechnology, medicine, physical science, engineering, social science, etc.

Concentration
- Moderate
- Above Average
- High

Brazos Valley Region
Physical & Engineering R&D

Capital Region
Biotechnology R&D
Physical & Engineering R&D

Alamo Region
Physical & Engineering R&D
Semiconductors and Electronic Components

Concentration
- Moderate
- Above Average
- High

North Central Region
- Semiconductors/Related Devices
  - Bare Printed Circuit Boards

Dallas County
- Semiconductors/Related Devices
  - Bare Printed Circuit Boards

Capital Region
- Semiconductors/Related Devices
  - Printed Circuit Assemblies

Computers and Peripherals Manufacturing

Concentration
- Moderate
- Above Average
- High

Gulf Region
- Electronic Computer Mfg.

Capital Region
- Electronic Computer Mfg.
**Electronic Instrument Manufacturing**

- North Central Region
  - Electronic Instruments
- Dallas County
  - Search & Navigation Instruments
- Gulf Region
  - Industrial Process Instruments
- Capital Region
  - Industrial Process Instruments

**Communications Equipment Manufacturing**

- North Central Region
  - Wireless Communications Equip.
    - Telecommunications Equip.
- Dallas County
  - Telecommunications Equip.
  - Alarm & Security Systems
- Gulf Region
- Capital Region

**Concentration**

- Moderate
- Above Average
- High

*Related workforce:* Aerospace Mfg. (pg. 12)
**Data Management, Hosting, and Related Services**

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Value</th>
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<tbody>
<tr>
<td>Moderate</td>
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**Software Publishing**

<table>
<thead>
<tr>
<th>Concentration</th>
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</table>
Internet Publishing and Web Search Portals

This sector provides customized software and hardware integration, customized software installation, onsite IT and data facility management, and other computer-related services.

Computer Systems Design and Related Services

This sector provides customized software and hardware integration, customized software installation, onsite IT and data facility management, and other computer-related services.

Concentration
- Moderate
- Above Average
- High
PROFESSIONAL SERVICES

Architectural and Engineering Services

Concentration
- Moderate
- Above Average
- High

Dallas/Fort Worth
Architecture & Drafting
Testing Laboratories

Central Texas
Engineering Services

Southeast Texas
Engineering Services

Gulf Region
Engineering Services
Geophysical Surveying

Capital Region
Architecture
Surveying & Mapping

Permian Basin
Geophysical Surveying

Legal Services

Dallas County
Offices of Lawyers
Title Abstract & Settlement

Capital Region
Offices of Lawyers
Patent Agent & Paralegal Services
Credit and Consumer Lending

Security and Commodity Dealing

Concentration

- Moderate
- Above Average
- High
Other Financial Investment Services

This sector includes financial planning, portfolio management, mineral royalty and lease brokerage, venture capital firms, and other services.

- Dallas County: Portfolio Management, Investment Advice, Specialized Investors
- Panhandle: Specialized Investors
- Capital Region: Investment Advice, Specialized Investors
- Alamo Region: Portfolio Management, Specialized Investors
- Gulf Region: Portfolio Management

Concentration
- Moderate
- Above Average
- High

Funds, Trusts, and Other Financial Vehicles

This sector pools securities or other assets on behalf of employee benefit groups or other shareholders. This includes pension funds, mutual funds, and others.

- Dallas/Fort Worth: Insurance Funds, Trusts, Estates, etc.
- Capital Region: Pension Funds, Mutual Funds
- Alamo Region: Mutual Funds

Concentration
- Moderate
- Above Average
- High
Aerospace Product and Parts Manufacturing

Concentration
- Moderate
- Above Average
- High

Related workforce: Electronic Instrument Mfg. (pg. 5)

Scheduled Air Transportation

Concentration
- Moderate
- Above Average
- High

Dallas/Fort Worth Passenger Air Transportation

Gulf Region Passenger Air Transportation
**Support Activities for Air Transportation**

Concentration
- Moderate
- Above Average
- High

AEROSPACE & AVIATION
Motor Vehicle Manufacturing

Alamo Region
- Light Trucks
- Motor Vehicle Interiors
- Motor Vehicle Metal Stamping

Gulf Region
- Heavy Duty Trucks

Upper Rio Grande
- Motor Vehicle Electrical Equipment

Tarrant County
- Motor Vehicle Electrical Equipment
- Motor Vehicle Interiors
- Motor Vehicle Air Conditioning

Cameron County
- Motor Vehicle Parts

Concentration
- Moderate
- Above Average
- High

Motor Vehicle Parts Manufacturing

Alamo Region
- Motor Vehicle Interiors
- Motor Vehicle Metal Stamping

Cameron County
- Motor Vehicle Parts

Concentration
- Moderate
- Above Average
- High
Motor Vehicle Body and Trailer Manufacturing

Concentration
- Moderate
- Above Average
- High

North Central Region
- Truck Trailers

Northeast Texas
- Truck Trailers
- Travel Trailers & Campers

Heart of Texas
- Truck Trailers

Agricultural, Mining, and Construction Machinery

Concentration
- Moderate
- Above Average
- High

Panhandle
- Farm Machinery

East Texas
- Oil & Gas Field Equipment

Gulf Region
- Oil & Gas Field Equipment
**Industrial Machinery Manufacturing**

- Permian Basin Region: Air & Gas Compressors
- Tarrant County: Power Transmissions, Conveyor Systems
- Capital Region: Semiconductor Machinery

**Concentration**
- Moderate
- Above Average
- High

**HVAC and Refrigeration Equip. Manufacturing**

- Dallas/Fort Worth: Air Conditioning Equipment, Air Purification Equipment, Industrial Fans and Blowers
- East Texas: Air Conditioning Equipment
- Gulf Region: Air Conditioning Equipment

**Concentration**
- Moderate
- Above Average
- High
**Petrochemical & Chemical Products**

**Petroleum Product Manufacturing**

- East Texas Petroleum Refining
- Permian Basin Petroleum Refining
- Gulf Region Petroleum Refining
- Southeast Texas Petroleum Refining
- Coastal Bend Region Petroleum Refining

**Concentration**
- Moderate
- Above Average
- High

**Chemical Manufacturing**

- Panhandle Carbon Black Mfg., Organic Chemicals
- North Central Region Explosives, Other Chemicals
- East Texas Basic Chemicals
- Southeast Texas Petrochemicals
- Gulf Region Petrochemicals, Alkalies & Chlorine, Organic Chemicals
- Golden Crescent Region Organic Chemicals
- Coastal Bend Region Petrochemicals, Synthetic Pigments

**Concentration**
- Moderate
- Above Average
- High

**Related workforce:** Pharmaceuticals Mfg. (pg. 1)
**Freight Transportation Arrangement**

- **Moderate**
- **Above Average**
- **High**

**Concentration**
- **Upper Rio Grande Freight Forwarders**
- **South Texas/Middle Rio Grande Freight Forwarders**
- **Gulf Region Marine Shipping Agents Freight Forwarders**
- **Rio Grande Valley Freight Forwarders**
- **Tarrant County Freight Forwarders**

**Water Transportation**

- **Southeast Texas Navigational Services**
- **Gulf Region Navigational Services Deep Sea Freight Transport Inland Water Transport**
- **Cameron County Marine Cargo Handling Navigational Services**
**LOGISTICS AND TRANSPORTATION**

**Rail Transportation Support Services**

<table>
<thead>
<tr>
<th>Region</th>
<th>Rail Cargo Transfer</th>
<th>Rail Car Maintenance</th>
</tr>
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<tbody>
<tr>
<td>Tarrant County</td>
<td></td>
<td></td>
</tr>
<tr>
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<td></td>
</tr>
<tr>
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<td></td>
<td></td>
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<tr>
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**Process, Distribution and Logistics Consulting**

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<td></td>
</tr>
<tr>
<td>Upper Rio Grande</td>
<td></td>
<td></td>
</tr>
<tr>
<td>South Texas</td>
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</tbody>
</table>

**Concentration**

- Moderate
- Above Average
- High
FOOD & BEVERAGE PROCESSING

**Food Manufacturing**

- **Concentration**
  - Moderate
  - Above Average
  - High

  **Panhandle/South Plains**
  - Meat Processing

  **Dallas/Fort Worth**
  - Snack Foods
  - Seasonings & Dressings
  - Frozen Foods

  **Northeast Texas**
  - Meat Processing
  - Canned Fruit/Vegetables

  **Heart of Texas**
  - Poultry Processing

  **Coastal Bend Region**
  - Baked Goods

  **Lower Rio Grande**
  - Fruit/Vegetable Processing

**Beverage Manufacturing**

- **Concentration**
  - Moderate
  - Above Average
  - High

  **Upper Rio Grande**
  - Soft Drinks

  **West Central Texas**
  - Soft Drinks

  **Tarrant County**
  - Breweries
  - Soft Drinks

  **Dallas County**
  - Soft Drinks

  **Gulf Region**
  - Soft Drinks
  - Breweries
Sources

- Texas Workforce Commission  www.tracer2.com