

# 2013 ANNUAL REPORT



**LEARN**  
LONESTAR EDUCATION AND RESEARCH NETWORK

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Angelo State University  
 Baylor College of Medicine  
 Baylor University  
 Lamar University  
 National Weather Service  
 Northeast Texas Consortium  
 Prairie View A&M University  
 Rice University  
 Sam Houston State University  
 Southern Methodist University  
 Stephen F. Austin State University  
 Texas A&M Health Science Center  
 Texas A&M University  
 Texas A&M University - Corpus Christi  
 Texas A&M University System  
 Texas Association of Community Colleges  
 Texas Christian University  
 Texas Education Telecommunications Network  
 Texas State University - San Marcos  
 Texas Tech University



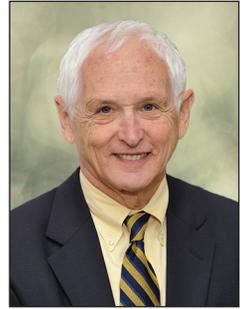
Texas Tech University Health Sciences Center  
 Texas Tech University Health Sciences Center at El Paso  
 Texas Tech University System  
 Texas Woman's University  
 University of Houston System  
 University of North Texas System  
 University of Texas - Pan American  
 University of Texas at Arlington  
 University of Texas at Austin  
 University of Texas at Dallas  
 University of Texas at El Paso  
 University of Texas at San Antonio  
 University of Texas Health Science Center at Houston  
 University of Texas Health Science Center at San Antonio  
 University of Texas Health Science Center at Tyler  
 University of Texas MD Anderson Cancer Center  
 University of Texas Medical Branch at Galveston  
 University of Texas Southwestern Medical Center  
 University of Texas System





## Chair

**Sam Segran**  
Texas Tech University



## Chair Elect

**Steve Riter**  
University of Texas at El Paso



## Past Chair

**Marg Knox**  
University of Texas System



## Secretary

**Kay Rhodes**  
Texas Tech University System



## Treasurer & Chair, Finance Committee

**Joe Gargiulo**  
Southern Methodist University



## Chair, Operations & Services Committee

**Pierce Cantrell**  
Texas A&M University



## Chair, Governance & Participation Committee

**William (Bill) E. Carter**  
Texas Association of Community Colleges



## Executive Director

**Mike Phillips**  
LEARN



*Sam Segran*  
*Texas Tech University*

On behalf of our Board of Directors, it is my distinct pleasure to present the 2013 edition of LEARN's Annual Report. As a result of dynamic leadership and partnerships with the private and public sectors, LEARN has created a collaborative community with a history of success, but a focus on the future. The four pillars of LEARN's mission, in our service to Texas, include education; research; healthcare and public service.

LEARN includes 39 members representing public and private institutions of higher education, K-12 public schools, community colleges, our academic health sciences centers and the National Weather Service. Additionally, there are 645 affiliate member organizations, across the broad spectrum of community anchor institutions in Texas that are now connected to the network. This large and diverse community uses the LEARN network as an important vehicle in creating collaborations with colleagues in Texas and around the world. The network enables this community to bring a world of opportunity and valuable educational experiences to over 823,000 Texas students enrolled in our institutions of higher education and over 1,034,000 Texas public school children enrolled in our K-12 schools.

Our Annual Report reflects the leadership role that Texas is playing in many critical areas and the contributions that Texans are making in educating our future leaders; conducting transformative research; improving healthcare and serving the public. The report shows the strategic role the network is playing in enabling our researchers to protect spacecraft from impacts; improve body armor; provide access to rare digital archives that will preserve our history for future generations; prepare our public school children to assume vital leadership positions in the future; interconnect and leverage new and existing networks for all Texans; transform cancer research and treatment; serve as a national leader in providing online graduate programs for our mobile society; use advanced networks to support the education and research missions of our institutions of higher education in an efficient and effective manner; develop new technology in unmanned aircraft systems; and stimulate economic development in Texas.

Our excellent LEARN Executive Director, staff and colleagues play important leadership roles in the international community of high performance research and education networks. This visibility and leadership brings recognition to Texas and is critical in providing the global interconnected information superhighway that Texas needs to remain competitive. Because of this outstanding leadership, next year several thousand people from around the world will come to Texas for two very important conferences. The preeminent supercomputing conference (SC15) that brings together researchers, scientists, information technology professionals, journalists and public officials from around the globe are coming to Austin in the fall of next year. Additionally, The Quilt, who is the association of regional optical networks like LEARN, will also be convening in Austin next fall.

We have much to be proud of, but we know we must build on our accomplishments, if Texas is to continue to play an essential global leadership role in the future!

As reflected in our Annual Report, LEARN plays a strategically important role for Texas in educating our students; changing the world through ground breaking research; improving the health of our citizens; being a catalyst for economic growth; and providing public services in Texas. For Texas to retain its leadership role in the very competitive interconnected world in which we live, we must continue to evolve with the changing environment. Yesterday's successes or solutions do not position us to meet emerging and future opportunities and challenges. It is this shared understanding that exists among our diverse set of public and private sector partners that will keep LEARN vitally important for Texas in the future.

During the past year, Texas Tech University Health Sciences Center at El Paso joined LEARN as our 39th member. As the only research and patient care focused health sciences center on the border between the United States and Mexico, we were excited to welcome them to our dynamic collaboration. Also during the year, we saw a substantial increase in the number of affiliated organizations who saw the value in connecting to the LEARN network and being a part of our community. At the end of 2013, almost 700 organizations were connected to the network.

During 2013, in collaboration with our partners, we expanded the topology of the network to areas with unmet needs and added several new "on ramps", in key areas of the state, to facilitate access to our valuable network services and foster new partnerships between the community of organizations connected to the network. Additionally, we deployed valuable new services for our members and affiliates, which was an essential element of the increasing demand for our services. This growth enabled the Board of Directors to make critical investments in strategic priorities and gives us the financial strength to ensure our long term relevance in the ever changing world that Texas must compete in.

Our cover this year reflects the importance of educating the public school children in Texas. They are our future and the long term success of Texas rests in their hands. The stakes could not be higher and LEARN is pleased to play an important role in helping the Texas Education Agency; the Education Service Centers; and our Independent School Districts educate our children. During 2013, LEARN competed in a request for proposal procurement process and won the opportunity to continue to support K-12 through June 30, 2017.

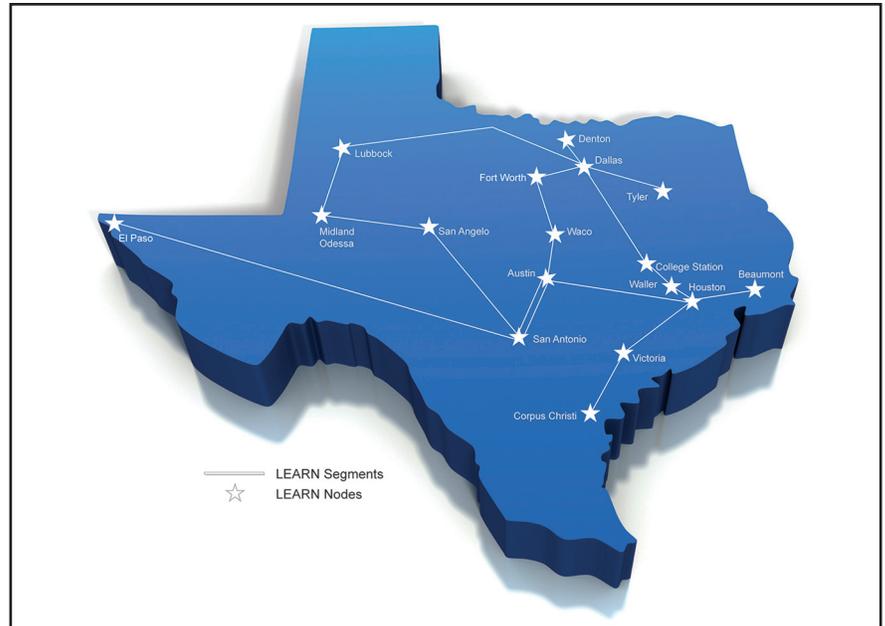
The LEARN network itself is a vital resource, but it is what the network enables our students; faculty; researchers; healthcare professionals; and public service officials to accomplish that is our focus. The activities and accomplishments that are highlighted in this report are impressive, but these examples are only the tip of the iceberg of the remarkable things these Texans are doing on the network. We appreciate your interest in LEARN and we look forward to working with you.



*Mike Phillips*  
**LEARN**

## Who is LEARN?

The Lonestar Education And Research Network (LEARN) is a consortium of 39 organizations throughout Texas that includes public and private institutions of higher education, community colleges, the National Weather Service, and K-12 public schools. The consortium, organized as a 501(c)(3), connects these organizations, and over 640 affiliated organizations, together with high performance optical network services to support their research, education, healthcare and public service missions. LEARN is also a part of a national community of research optical networks, and provides Texas connectivity to the national and international research and education networks.



LEARN's network topology.

## How was LEARN Created?

In 2003, a series of meetings were held to forge a shared vision concerning the value of creating a unifying high performance optical network for higher education in Texas. Despite the significant challenges that lay ahead, a consensus soon emerged among higher education leaders that it was strategically important to create an organization dedicated to high performance networking in Texas.

In the summer of 2003, the Texas Legislature endorsed the concept of providing the initial investment of \$7.5 million dollars to construct the proposed optical network for Texas. The legislature also endorsed the concept of funding a \$2.5 million proposal to develop a grid computing collaborative among the five universities in the Texas Internet Grid for Research and Education (TIGRE). While both projects were authorized by the Legislature, the grants were to be awarded under the auspices of the Texas Enterprises Fund (TEF), if authorized by the Governor, Lieutenant Governor and the Speaker of the House.

### LEARN'S Vision

*To be the premier organization providing advanced network services for research, education, healthcare and economic development throughout Texas. LEARN will be a national model for organizations that serve institutions of higher education. We will provide leadership in creating global networking initiatives.*

In the fall of 2003, it was decided to use the Texas GigaPoP as the 501(c)(3) structure for the new statewide organization that later became LEARN. In January 2004, the officers of the new organization were installed at a Board meeting on the Southern Methodist University campus in Dallas. The new organization was officially named "LEARN: Lonestar Education And Research Network". Therefore, at



that meeting, LEARN was created with a 30 member Board of Directors.

During 2004, LEARN worked with the offices of the Governor, Lieutenant Governor, Speaker of the House and the Department of Information Resources (DIR) as they studied the merit of authorizing a TEF grant for the optical network project. In the fall of 2004, the elected leadership offices announced that the State of Texas would support funding a TEF grant. The TEF grant provided the initial capital funds to acquire dark fiber and equipment or leased wavelengths for a “triangle” backbone connecting, Dallas, College Station, Houston, San Antonio and Austin with additional connections to El Paso, Lubbock, Denton, Tyler/Longview, Beaumont, Galveston and Corpus Christi.

On February 28, 2005, the Governor signed the TEF grant agreement to provide \$7.28 million in funding for the optical network project. LEARN now had the organizational, political and financial means to begin deploying the optical network for Texas.

### Organization & Governance

LEARN’s Board of Directors governs the overall affairs of the corporation. Committees of the Board have been formed to oversee specific areas of LEARN. The standing committees of the Board include: Finance, Governance and Participation, and Operations and Services. Additionally, an Audit Committee consisting of three elected Board members and an independent advisor monitors the activities of the annual independent audit. The Board also creates ad hoc committees of the Board, as necessary.

Within the authority delegated by the Board, the Executive Committee develops the Board agendas and governs the affairs of LEARN, between meetings of the Board. The Executive Committee is comprised of the elected officers of the corporation and the Chairs of the three standing committees. The elected officers of LEARN include: the Executive Director, Chair, Chair Elect, Past Chair, Treasurer and Secretary. Other than the Executive Director, the officers are elected from the members of the Board of Directors.

The day-to-day business of LEARN is managed by the Executive Director of the corporation, who is elected by the Board and serves at their pleasure. The Executive Director employs and supervises a professional technical and administrative staff to conduct and manage operations.

The Technical Advisory Group (TAG) is comprised of representatives, with extensive technical expertise, from our member institutions. TAG members are appointed by the LEARN Board member from the institution they represent. The TAG Chair is elected by the TAG members. TAG is an advisory body to the Board, Executive Director and LEARN’s Chief Technologist. TAG serves an important role in helping shape LEARN’s infrastructure, operations and portfolio of services.



*Akbar Kara  
LEARN, Chief Technologist*



*David Nichols  
Chair, Technical Advisory Group  
(TAG)*



## Network Infrastructure

In collaboration with the public and private sector, LEARN's network spans over 3,200 miles across Texas. LEARN is built on dense wavelength division multiplexing (DWDM) optical technology. This technology provides the capability to transport multiple high capacity signals over a shared optical fiber by using the different color wavelengths of laser light. DWDM is state-of-the-art technology that is very scalable and permits LEARN to leverage the initial investment by adding additional capacity at marginal costs.

LEARN is built on agreements with the private sector that provide the long term use of optical dark fibers and/or long term leases of optical wavelength capacity. When dark fiber is conveyed via an indefeasible right to use (IRU) agreement, LEARN provides the infrastructure to "light" the fiber and can add additional capacity, as needed. In wavelength capacity agreements, the service provider provides the infrastructure and bandwidth under the terms and conditions of the agreement.

## Membership & Network Services

Each of the member institutions of LEARN pays \$20,000 per year in dues, which funds the general administration of LEARN. Members are entitled to appoint an individual to the Board of Directors and to acquire network services from LEARN at member rates. Network services are enabled based on the needs of individual members and collaborations among our members. Unlike the membership dues, network services are funded by the members who consume the services. Network service rates are set at levels to enable and sustain current and future network requirements. Network services include:

- Layer 1 Transport Services Between LEARN Points-of-Presence (POP),
- Switched Layer 2 MPLS Services,
- Routed Layer 3 Services,
- Connection Gateways to the Internet2 National Research and Education Network,
- Colocation Services at LEARN Facilities,
- Commodity Internet Services, and
- Peering Services.



*LEARN has over 30 network points-of-presence strategically located throughout Texas.*

LEARN has received a Service Provider Identification Number (SPIN) with the Universal Service Administration Company. Acquiring a SPIN number permits our school, library, and rural health customers to receive significant discounts through the Universal Services Fund.

The Board and the staff are committed to ensuring LEARN remains a customer focused organization. Enhancing our portfolio of services is a cornerstone of the strategic priorities, which are guiding our current initiatives. There is a broad consensus among our members that continuing to expand the scope of services, which are available from LEARN, creates operational efficiencies, provides additional options for customers, supports collaboration, and enhances the overall value of LEARN.

During the past year, LEARN has continued to build partnerships to enhance the strategic value of LEARN to Texas. LEARN is a very diverse and talented consortium with a history of success, but a focus on the future. Highlights from the past year include:

## *UT Researchers Help NASA Bring “Shields to Maximum, Mr. Scott”*



*Astronauts can't repair all space debris impact damage.*

Debris from 50 years of space exploration is orbiting around the Earth and posing a danger to manned and unmanned spacecraft. According to NASA, there are more than 21,000 pieces of “space junk roughly the size of a baseball in orbit, and about 500,000 pieces that are golf ball-sized. When a piece of space junk strikes a spacecraft, the collision occurs at a velocity of 5 to 15 kilometers per second, roughly ten times faster than a speeding bullet. Researchers at the University of Texas at Austin are studying impact dynamics to find solutions to space debris impacts using the LEARN network and the Stampede supercomputing cluster at the Texas Advanced Computing Center.

Only some of the collisions that may occur in low earth orbit can be reproduced in the laboratory. UT is helping NASA determine the potential impact of fast moving orbital debris on spacecraft to assist in the design of shielding that can withstand hypervelocity impacts. The UT researchers have developed a numerical algorithm that simulates the shock physics of orbital debris particles striking the layers of Kevlar, metal, and fiberglass that makes up a space vehicle’s outer defenses. Supercomputers enable researchers to investigate physical phenomenon that cannot be duplicated in the laboratory, either because they are too large, small, dangerous, or in this case, too fast to reproduce with current testing technology. The researchers are assisting NASA in the development of ballistic limit curves that predict whether a shield will be perforated when hit by a projectile of a given size and speed. NASA uses ballistic limit curves in the design and risk analysis of current and future spacecraft.

Back on Earth, UT researchers are using their research to study the impact of projectiles on body armor materials. This research is supported by the Office of Naval Research. The numerical technique originally developed to study impacts on spacecraft works well for a completely different application at lower velocities, in part because some of the same materials used on spacecraft for orbital debris protection, such as Kevlar, are also used in body armor. Parameters used in their research such as the material’s strength, flexibility, and thermal properties, are replicated in the supercomputer simulations to capture the complex interaction of the multiple layers of a fabric protection system, some fragments getting caught in the mesh of yarns, others breaking through the layers and perforating the barrier.

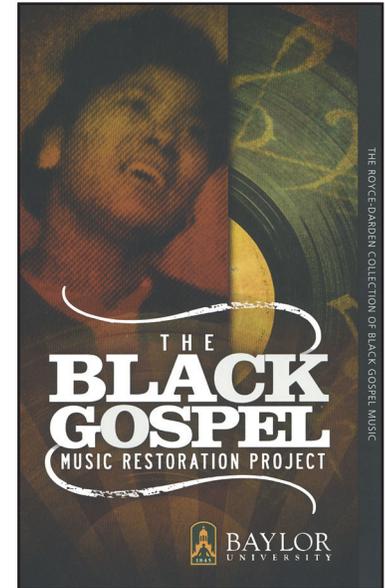
What can researchers learn about the layer-to-layer impact response of a fabric barrier through simulation? Can body armor be improved by varying the weave type of the many layers in a typical fabric barrier? Can simulations assist the design engineer in developing orbital debris shields that better protect spacecraft? The range of engineering design questions are endless, and supercomputing simulations and high performance networks like LEARN play an important role in the development of improved impact protection systems for spacecraft and people on Earth.



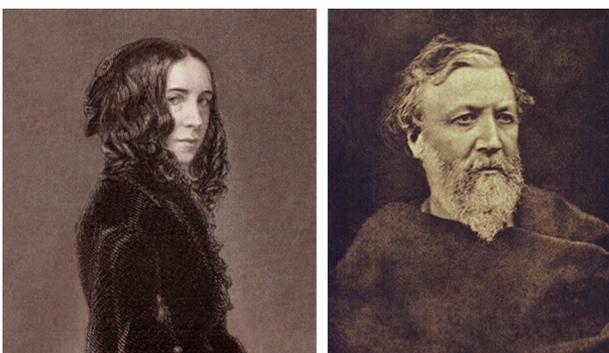
## *Baylor's Digital Collections Are Global Treasures*

Baylor University's Riley Digitization Center celebrated its fifth anniversary in October 2013. In just five years, Baylor's Digital Projects Group has worked diligently to create 58 online collections that contain 6.6 million files that total over 38 terabytes of data, making it among the largest digital collections in the state of Texas. The collections vary in size and scope, and are publicly available at [digitalcollections.baylor.edu](http://digitalcollections.baylor.edu). These collections are critical to a variety of research endeavors and each month about 34,000 of the files are accessed. These files are saved to preservation servers in the Riley Digitization Center, but are also dark archived with the Texas Digital Library (TDL). The Digital Project Group regularly pushes multiple terabytes of data to TDL over the LEARN network so that, if a catastrophe occurs with its preservation servers, a full, recent backup is readily accessible. The speed and convenience of the LEARN network makes this archival solution feasible for Baylor.

Two collections in particular highlight the level of excellence that Baylor's Digitization Center has attained. The Black Gospel Music Restoration Project, which collects and digitally preserves black gospel music from the 1940s to the present, has received national acclaim in the past and will be included in the Smithsonian's National Museum of African American History and Culture when it opens in 2015. Music from the collection will be delivered to the Smithsonian and featured as part of the exhibit using the LEARN network. The Smithsonian's decision to include Baylor's collection in its African American History and Culture museum will ensure that the collection will continue to grow and that this important part of America's cultural history will be preserved and remembered.



*Baylor's collection will be included in the Smithsonian's National Museum of African American History.*



*The Browning Letters Collection has received international acclaim.*

The Browning Letters Collection was released to the public on Valentine's Day 2012, boasting digital copies of the complete holdings of Baylor's Armstrong Browning Library and the Browning courtship letters held by Wellesley College. The new collection received international acclaim and has since been expanded to include the complete collection of Browning correspondence held by Wellesley College, four previously unknown Browning letters from Highclere Castle in England, letters from private donors and will soon include letters from the Bodleian and Balliol Libraries at Oxford. The goal of this collection is to be an internationally accessible resource for Browning research

that contains every known letter penned by the Brownings. Without LEARN's network resources, sharing these priceless collections with the world and preserving them for future generations would not be possible. The ease of access and speed of LEARN's network will continue to allow Baylor's Riley Center to make unique content available to the public and researchers across the globe.



### TETN/LEARN Partnership Benefits Texas' Schoolchildren

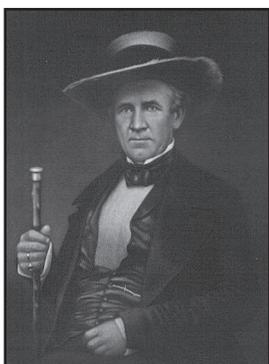
The Texas Education Telecommunications Network (TETN) uses the LEARN network to connect K-12 students across Texas to improve student performance and to increase the efficiency of public school educational programs via an integrated statewide network. TETN is a consortium of 21 entities; the Texas Education Agency (TEA) and all 20 Texas Education Service Centers (ESCs). ESC 13 is the fiscal agent for their collaboration and is responsible for the consortium's budget and the TETN office.

As a result of ESC 11's Connect2Texas initiative, students were able to interact with the Bob Bullock History Museum, Perot Museum of Nature and Science, Amon Carter Museum of American Art, the National Cowgirl Museum and Hall of Fame, and the Fort Worth Zoo to name just a few of the 25 content providers that are available to enhance and engage students in their learning. Students are enlightened by these topics, as well as many others: "ABC's of Chemistry", "Paleontology 101", "Icy Science", "Geometric Transformations", "John F. Kennedy and the Dallas Civil Rights Movement", "Habitats of the Gulf of Mexico", "ASI: Animal Skull Investigation!" and "Cowgirl Science".

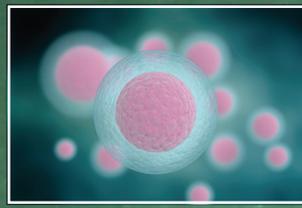


The LEARN and TETN collaboration is also used to support over 10,000 K-12 students in Texas who are dual-enrolled in courses delivered by different schools. Leveraging the bandwidth and connectivity of the LEARN network enables students to participate in high school courses that are not offered in their own districts, to receive credit toward their diploma. Additionally, dual credit classes are available between K-12 schools and institutions of higher education that provide students the opportunity to gain higher education credit hours while attending high school.

Ho! Ho! Ho! Over 18,000 students were "edutained" by Santa and Mrs. Claus through a program presented by ESC 3 over the network enabled by TETN and LEARN. Mrs. Claus read a book and answered hundreds of questions from students in kindergarten through second grade. Programs like this provide young students the opportunity to experience interactive videoconferencing technology and exercise their communication skills.



Additionally, in collaboration with ESC 6, students throughout Texas have access to a series of programs on one of the greatest Texans in our history, General Sam Houston. Students in fourth and seventh grade learn about General Sam Houston from the General himself, as the curator of the Sam Houston Memorial Museum impersonates him and shares the General's experiences. Texas history comes alive for these students as they engage in conversation and questions with General Sam Houston.



## Texas A&M & LEARN Partnership – Leveraging Network Resources for Texas



*The project laid 151 miles of new fiber to connect 114,000 students.*

During 2013, the Texas A&M University System completed its Texas Pipes fiber based network project to provide connectivity to six A&M System member institutions that are now connected to the new infrastructure. Funded by a \$6.6 million Broadband Technology Opportunities Program grant, the Texas Pipes network interconnects with the LEARN network to provide 1 Gigabit per second (Gbps) connections to all 11 A&M System campuses and has the ability to increase the bandwidth to 10Gbps in the future.

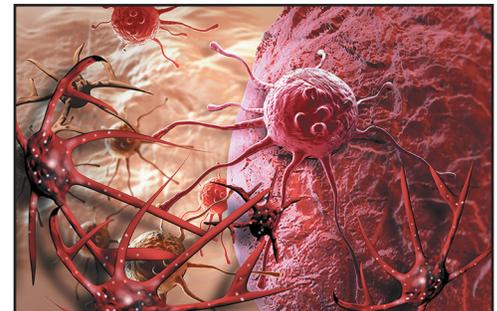
The Texas Pipes project initiative leverages the existing broadband infrastructure and enables new connections between the A&M System campuses and the A&M System's TTVN network backbone, which utilizes the LEARN network. Through its project partners,

Texas Pipes brings broadband capabilities to underserved areas of Texas, increases access to distance learning, research and health services. The project connects K-12 schools, libraries, healthcare providers and public safety entities to high speed Internet service. Additionally, the Texas Pipes project enabled LEARN and Texas A&M to develop a partnership to provide a protected network ring between Dallas and Tyler that mitigates the risk of network service disruptions in the northeastern part of Texas.

## MD Anderson Cancer Center – Transforming Cancer Prevention & Treatment

Cancer research and care generate large volumes of complex “big data”. However, many databases currently do not interface with each other, because they are generated by and housed separately in prevention, research and clinical departments versus a centralized platform. Harnessing complex big data provides transformative opportunities to ask complex questions and identify new knowledge in existing data. Therefore, MD Anderson Cancer Center has been developing a new adaptive learning environment to improve the effectiveness of cancer patient care today and advance the future care of its patients.

This adaptive learning environment relies on cutting-edge information and computer technologies to seamlessly blend patient data with knowledge from research studies and best practices in clinical care to enable rapid and continuous learning, a process known as translation. Using analytic tools powered by third-generation cognitive computing systems can provide oncology knowledge and on demand expertise tailored to a specific patient. This new environment allows clinicians and patients to benefit from the latest research insights and apply it against complex patient data and clinical knowledge to enable more informed treatment decisions.



*More than 7.6 million deaths are caused by cancer each year.*

Serving as the nerve center of the adaptive learning environment, MD Anderson's big data analytics platform consists of two functional components. The first is the Institutional Longitudinal Patient Disease Registry, which securely houses complex big data sets in one centralized location. The second is a suite of powerful analytic tools that interrogate and learn from the data to provide end users with understandable



*The impact of cancer on families can be devastating.*

and actionable answers to their clinical or research questions.

While MD Anderson clinicians are exceptional, decision support provided by big data analytics and streamlined integrated workflows that promote cross disciplinary collaboration hold the key to understanding why some patients never respond to treatment, why some patients initially respond and then relapse, and why some patients have long-lasting responses. This new adaptive learning environment will play a strategically important role in transforming our understanding and treatment of cancer. High performance networks like LEARN will enable physicians globally, the opportunity to connect with their MD Anderson Cancer Center colleagues no matter where the patient is located, improving outcomes and reducing suffering worldwide.

### **Lamar University Ranked 3rd Nationally in Online Graduate Programs**

Networks like LEARN are playing a key role in supporting online education for students. In today's interconnected world, mobility and access to content and services from virtually any place in the world is the expectation of society. Recent studies indicate that over 6 million students in the United States are accessing courses online and that number is growing by 10% each year.

Graduateprograms.com surveys over 15,000 current and recent graduate students taking courses online. Graduate Programs then ranks each graduate program for schools who offer graduate programs online. Their rankings cover a variety of student focused areas, such as academic competitiveness, career support, financial aid, and quality of network. Lamar University's online programs were ranked third in the nation by Graduate Programs based on ratings and reviews by more than 15,000 students enrolled in over 500 different online programs. Lamar was ranked just behind Johns Hopkins University and the University of North Carolina at Chapel Hill.

In addition to rating their respective programs, students often post comments regarding their experiences. One student earning her graduate degree from Lamar University online wrote, "My career as an international teacher takes me around the world, so being able to get my graduate degree while traveling is a complete blessing."

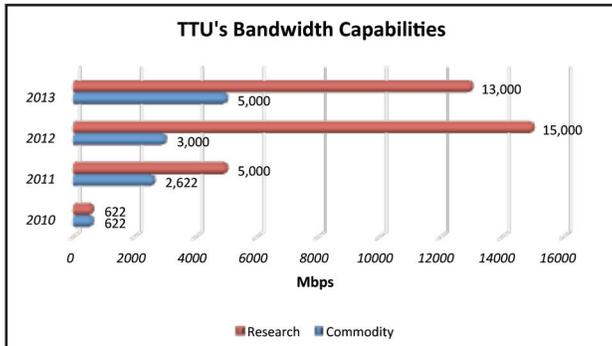


*Texas is a leader in online education.*

The flexibility, convenience and growing acceptance of online distance education is creating a new trend in how college students attend classes and earn their degrees. Today, almost all public institutions in the United States offer some type of online coursework, either through online only programs or blended courses where students attend classroom lectures and participate in online class activities. Higher education institutions in Texas are playing a leadership role in online education. In addition to Lamar University, LEARN members Texas A&M University, Sam Houston State University, and Angelo State University were also ranked in the top 20 institutions nationally for online graduate programs by Graduate Programs.



## Enhancing Education & Research at Texas Tech University Through Its LEARN Partnership



*LEARN helps TTU meet its growing bandwidth requirements.*

Texas Tech University's (TTU) partnership with the Lonestar Education and Research Network (LEARN) has greatly assisted TTU in achieving its institutional teaching and research priorities. Before TTU partnered with LEARN, high speed, high capacity Internet bandwidth was available only from one or two commercial providers at a high cost to the university. Through LEARN's network services, Texas Tech University System institutions (Texas Tech University, Texas Tech University Health Sciences Center, Texas Tech University Health Sciences Center at El Paso, and Angelo State University) are now connected by dual fiber optic links.

The direct connection to LEARN's Dallas POP gave Texas Tech University access to Internet providers in the metroplex, allowing TTU to grow its total Internet bandwidth from 622Mbps from one provider in 2010 to 5Gbps across three providers by 2013. This increase in bandwidth and reliability has allowed TTU to more fully utilize cloud-based services for key services, such as our Blackboard Learning Management System and OmniUpdate Web CMS, expand Online and Distance Education programs, and enhance connectivity to TTU remote sites in Junction, Fredericksburg, and Marble Falls.

Similar to the growth in Commodity Internet, Internet2 bandwidth provided through the LEARN partnership grew from 622Mbps in 2010 to 13Gbps in 2013, with virtually a limitless growth potential. Such a rapid increase in research bandwidth provided an immediate benefit to the High Energy Physics Department's work on the Large Hadron Collider Project, allowing TTU researchers to transfer terabytes of data over Internet2 between FermiLab and TTU, and to analyze the data. The massive increase in Internet2 bandwidth provided through LEARN created a temporary bottleneck as data traversed the existing campus backbone at that time. To facilitate high speed large dataset transfers, TTU established a 10Gbps campus Research Network, with future expansion plans to 40Gbps and 100Gbps. The current Research Network connects data servers at the TTU High Performance Computing Center (HPCC) facility at the Lubbock Campus Experimental Sciences Building, the HPCC facility at Reese Technology Center, and the Advanced Technology Learning Center Communications facility.

Most recently, Texas Tech's National Wind Institute partnered with Sandia National Laboratory (SNL) to study wind turbine technology at the newly established Scaled Wind Farm Technology (SWiFT) facility. The partnership utilizes TTU's high speed Internet2 connectivity to transfer real time data from the SWiFT facility to SNL. Future research projects and partnerships at Texas Tech are expected to increasingly rely upon fast data connections between TTU and its academic and commercial partners. The LEARN partnership paves the way for these types of future collaborations as we continue to enhance TTU's national research university status.

Finally, the TTU-LEARN partnership, combined with TTU's Unified Communications technology, enables seamless communications across the state of Texas utilizing SIP trunks, Voice-over-IP, video conferencing, and Skype conferencing. This greatly increases TTU's presence across the state of Texas and the world, opening the door for new and enhanced online and distance education programs, and for electronic collaboration with peers and partners.



## Texas A&M University–Corpus Christi Receives Prestigious Designation

Texas has been named a test site for unmanned aircraft systems (UAS) by the Federal Aviation Administration (FAA), based on a statewide proposal led by Texas A&M University-Corpus Christi. “We are proud to be a part of this historic moment in aviation history,” said Dr. Flavius Killebrew, President and CEO of Texas A&M University-Corpus Christi. “Together with our partners, we will lead the way for the research and development of this new age in aviation technology.” Texas A&M University-Corpus Christi will leverage the LEARN network to collaborate with the top engineering, research and technology experts in the state including those at the University of Texas at Arlington Research Institute, the Southwest Research Institute in San Antonio, the Texas A&M Engineering Experiment Station, and other research institutions and private sector companies.

Unmanned aircraft systems come in a variety of shapes and sizes and serve diverse purposes. They may have a wingspan as large as a Boeing 737 or smaller than a radio-controlled model airplane. Regardless of size, the responsibility to fly safely applies equally to both manned and unmanned aircraft operations. Because they are inherently different from manned aircraft, introducing UAS into the nation’s airspace is challenging for both the FAA and the aviation community. UAS must be integrated into a National Airspace System (NAS) that is evolving from ground-based navigation aids to a GPS-based system in NextGen. Safe integration of UAS involves gaining a better understanding of operational issues such as training requirements, operational specifications and technology considerations.

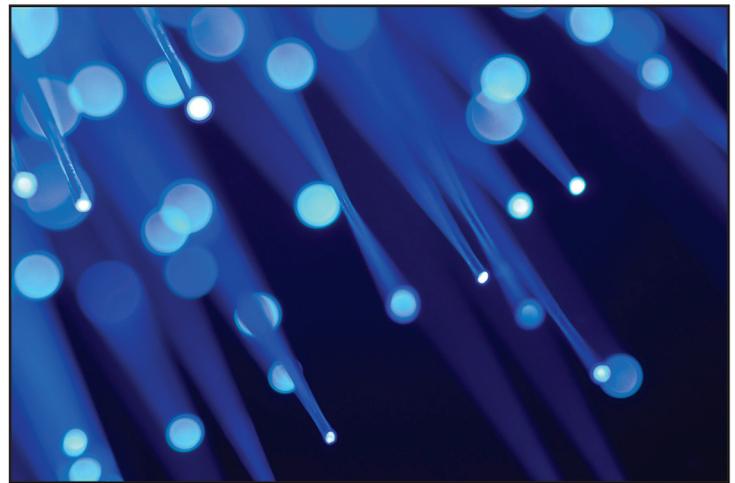


*Texas plays a critical role in developing unmanned aircraft systems technology.*

Texas A&M University-Corpus Christi has been involved in researching unmanned aerial systems technologies for about two years. The university has been looking at ways to use these technologies for mapping sea grass, detecting oil spills and wildfires, hurricane monitoring and even counting herds for ranchers. The test sites will facilitate testing and research of unmanned aerial systems (UAS) technologies to provide scientific data on the future integration of these aircraft safely with other air traffic. Congress mandated that the UAS be integrated into the national airspace by 2015. One of the main research goals is finding the safest methods for unmanned planes to sense other aircraft and take measures to avoid collisions.

This historic decision will have huge financial implications for the entire state of Texas, especially South Texas. The Association of Unmanned Vehicles International published an economic impact study last March projecting, once airspace is opened to UAS, the economic impact would be about \$8 billion statewide, and \$260 million in South Texas over the next 10 years; creating about 1,200 jobs.

LEARN has deployed and operates a sophisticated state-of-the-art fiber-based optical network throughout Texas. The infrastructure is “carrier grade” optical technology that is highly reliable and capable of provisioning high speed bandwidth between Texas cities. While capacity is important, the reliability of the network is just as important. In today’s complex and interconnected world, an “always on” reliable network is the foundation of our members’ needs and their expectations. A network outage can cause significant disruptions for our members.



*LEARN uses light from lasers to transport large data sets.*

The topology of the vast majority of LEARN’s network is designed to provide optical rings, which serve as a protected path for our customers in the event of a failure in the network infrastructure. This design redundancy is a key element of the network’s performance from a customer impact perspective.

The LEARN Network Operations Center (NOC) is staffed by professional network engineers, 24 hours a day, 7 days a week, and 365 days a year. The NOC serves as the central point for monitoring and managing the overall health and performance of the network. LEARN engineers have the network management tools and the training they need to manage the configuration of the network, monitor the performance of the network segments and their components, diagnose and isolate the cause of performance issues, and manage incidents until they are resolved. LEARN staff works closely with our members to align our network management practices and performance with their needs.

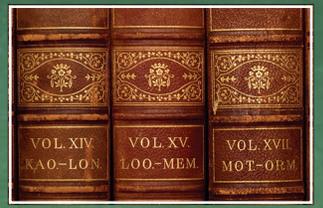
Despite the network design, the reliability of deployed infrastructure, operational discipline, and the expertise of our network engineers, occasionally components of the network fail. In order to reduce the time required to replace these components, LEARN has acquired and strategically deployed critical infrastructure spares throughout the network. Additionally, LEARN maintains maintenance and support agreements for its critical infrastructure.

During the past year, LEARN’s network continued to provide reliable service for our customers. Our FrameNet or Layer 2 services and Layer 3 services were available without disruption. For our WaveNet Layer 1 services, the overall network availability for our core backbone was 99.999% of the time and our Layer 1 network spurs were available 99.765% of the time. While these performance levels are very favorable compared with other telecommunications companies, LEARN is always exploring strategies to improve the availability of the network and customer satisfaction.

Part of the LEARN strategy to continue to improve availability of the network includes acquiring additional monitoring and reporting tools. During 2013, engineers deployed additional network management tools, as a part of our ongoing strategy, to continually improve the network’s performance and availability. Additionally, LEARN’s overall strategy also includes efforts to improve staff efficiency to meet the needs of our growing network. A database to provide a comprehensive centralized source for contact, asset, and circuit data was deployed in 2013, as a part of that strategy.

# The 4 pillars of LEARN's mission:

- Education
- Healthcare
- Research
- Public Service



# Appendices

Douglas (Doug) Fox, Associate VP, Information Technology & CIO  
Angelo State University

Jeffrey (Jeff) Early, Director of Communications Technologies  
Baylor College of Medicine

Pattie Orr, Vice President, Information Technology & Dean of University Libraries  
Baylor University

Priscilla A. Parsons, Vice President, Information Technology & CIO  
Lamar University

Mickey Slimp, Executive Director  
Northeast Texas Consortium of Colleges & Universities (NETnet)

Rodney V. Moore, Chief Information Officer  
Prairie View A&M University

Kamran M. Khan, Vice Provost, Information Technology  
Rice University

Mark C. Adams, Vice President, Information Technology  
Sam Houston State University

Joseph (Joe) Gargiulo, Chief Information Officer  
Southern Methodist University

Paul T. Davis, Director, Information Technology Services  
Stephen F. Austin State University

Scott Honea, Assistant Vice President, Information Technology & CIO  
Texas A&M Health Science Center

Pierce E. Cantrell, Vice President & Associate Provost for Information Technology & CIO  
Texas A&M University

Terry Tatum, Associate Vice President, Information Technology & CIO  
Texas A&M University - Corpus Christi

Rodney (Rod) L. Zent, Executive Director, Educational Broadcast Services TTVN  
Texas A&M University System



William (Bill) E. Carter, Vice Chancellor, Information Technology  
Texas Association of Community Colleges

Bryan Lucas, Assistant Provost, Information Technology & CTO  
Texas Christian University

C. Van Wyatt, Vice President, Information Technology  
Texas State University - San Marcos

Sam Segran, Chief Information Officer  
Texas Tech University

Benny (Chip) Charles Shaw, Jr., Vice President, Information Technology & CIO  
Texas Tech University Health Sciences Center

Gerardo (Jerry) Rodriguez, Assistant Vice President, Information Technology  
Texas Tech University Health Sciences Center at El Paso

Kay Rhodes, Associate Vice Chancellor & CIO  
Texas Tech University System

Robert Placido, Associate Provost, Technology & CIO  
Texas Woman's University

Dennis Fouty, Associate Vice President, Information Technology & CIO  
University of Houston System

Michael Di Paolo, Associate Vice Chancellor & CIO  
University of North Texas System

Jeffrey Graham, Vice President, Information Technology & CIO  
University of Texas - Pan American

Jim Bradley, Vice President & CIO  
University of Texas at Arlington

William Green, Director of Networking & Telecommunications, Information Technology Services  
University of Texas at Austin

Andrew (Andy) J. Blanchard, Vice Provost & Vice President, Information Resources & CIO  
University of Texas at Dallas



Stephen Riter, Vice President, Information Resources & Planning  
University of Texas at El Paso

Kenneth (Ken) Pierce, Vice Provost, Information Technology  
University of Texas at San Antonio

William (Bill) A. Weems, Assistant Vice President, Academic Technology  
University of Texas Health Science Center at Houston

Yeman Collier, Vice President, Information Management & Services & CIO  
University of Texas Health Science Center at San Antonio

John D. Yoder, Jr., Chief Information Officer  
University of Texas Health Science Center at Tyler

Keith Perry, Associate Vice President & Deputy CIO  
University of Texas MD Anderson Cancer Center

Todd A. Leach, Vice President, Information Services & CIO  
University of Texas Medical Branch

Kirk Kirksey, Vice President, Information Resources  
University of Texas Southwestern Medical Center

Margaret (Marg) Knox, Chief Information Officer  
University of Texas System

LONESTAR EDUCATION AND RESEARCH NETWORK

Financial Statements

Year Ended

December 31, 2013



## Ingrid Edwards CPA PC

8500 N. Mopac, Suite 605,  
Austin, TX 78759  
512-582-0118

*Member of American Institute of  
Certified Public Accountants*

*Member of Texas Society of  
Certified Public Accountants*

### INDEPENDENT ACCOUNTANT'S COMPILATION REPORT

To the Board of Directors  
Lonestar Education and Research Network  
Lubbock, TX

I have compiled the accompanying Statement of Financial Position of Lonestar Education and Research Network (a nonprofit organization) as of December 31, 2013 and the related Statement of Activities for the year then ended. I have not audited or reviewed the accompanying financial statements and, accordingly, do not express an opinion or provide any assurance about whether the financial statements are in accordance with accounting principles generally accepted in the United States of America.

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America and for designing, implementing, and maintaining internal control relevant to the preparation and fair presentation of the financial statements.

My responsibility is to conduct the compilation in accordance with Statements on Standards for Accounting and Review Services issued by American Institute of Certified Public Accountants. The objective of a compilation is to assist management in presenting financial information in the form of financial statements without undertaking to obtain or provide any assurance that there are no material modifications that should be made to the financial statements.

Management has elected to omit substantially all of the disclosures and statement of cash flow required by accounting principles generally accepted in the United States of America. If the omitted disclosures and statement of cash flow were included in the financial statements, they might influence the user's conclusion about the Organization's financial position, changes in assets, results of operations, and cash flow. Accordingly, these financial statements are not designed for those who are not informed about such matters.

February 22, 2014

  
Certified Public Accountant



**LONESTAR EDUCATION AND RESEARCH NETWORK  
STATEMENT OF FINANCIAL POSITION  
DECEMBER 31, 2013**

**ASSETS**

	Current Operating Funds		Total
	Program Fund	Network Fund	
<b>CURRENT ASSETS</b>			
Cash and cash equivalents	\$ 827,804	\$ 9,858,503	\$ 10,686,307
Accounts receivable:			
Network services	-	74,945	74,945
Earned credit card rewards	773	-	773
Funds held by others	1,900	-	1,900
<b>Total Current Assets</b>	<b>830,477</b>	<b>9,933,448</b>	<b>10,763,925</b>
<b>PROPERTY AND EQUIPMENT</b>			
Network equipment	-	7,260,894	7,260,894
Furniture and equipment	69,422	-	69,422
	69,422	7,260,894	7,330,316
Less accumulated depreciation	(51,239)	(5,126,613)	(5,177,852)
<b>Property and Equipment - net</b>	<b>18,183</b>	<b>2,134,281</b>	<b>2,152,464</b>
<b>OTHER ASSETS</b>			
Network and IRU access rights	-	8,617,341	8,617,341
Less accumulated amortization	-	(3,542,803)	(3,542,803)
<b>Total Other Assets</b>	<b>-</b>	<b>5,074,538</b>	<b>5,074,538</b>
<b>TOTAL ASSETS</b>	<b>\$ 848,660</b>	<b>\$ 17,142,267</b>	<b>\$ 17,990,927</b>

**LIABILITIES AND NET ASSETS**

<b>CURRENT LIABILITIES</b>			
Deferred revenue	\$ -	\$ 667,500	\$ 667,500
Accounts payable	96,858	81,647	178,505
Credit cards payable	20,177	8,890	29,067
Capital leases payable - current portion	-	38,400	38,400
<b>Total Current Liabilities</b>	<b>117,035</b>	<b>796,437</b>	<b>913,472</b>
<b>LONG TERM LIABILITIES</b>			
Capital leases net of current portion	-	94,168	94,168
<b>Total Liabilities</b>	<b>117,035</b>	<b>890,605</b>	<b>1,007,640</b>
<b>NET ASSETS</b>			
Unrestricted net assets	731,625	9,414,500.23	10,146,125
Unrestricted board designated net assets			-
Life cycle replacement	-	6,703,605	6,703,605
Member balances reserve	-	133,557	133,557
<b>Total Net Assets</b>	<b>731,625</b>	<b>16,251,662</b>	<b>16,983,287</b>
<b>TOTAL LIABILITIES AND NET ASSETS</b>	<b>\$ 848,660</b>	<b>\$ 17,142,267</b>	<b>\$ 17,990,927</b>

See accountant's compilation report.



**LONESTAR EDUCATION AND RESEARCH NETWORK  
STATEMENT OF ACTIVITIES  
FOR THE YEAR ENDED DECEMBER 30, 2013**

	Current Operating Funds		Total
	Program Fund	Unrestricted Network Fund	
<b>REVENUES AND OTHER SUPPORT</b>			
Network services	\$ -	\$ 6,503,090	\$ 6,503,090
Membership dues	814,000	-	814,000
Investment income	3,283	45,828	49,111
Other Income		2,073	2,073
<b>NET ASSETS TRANSFERS:</b>			
Fund transfers	22,274	(22,274)	-
<b>TOTAL REVENUES AND OTHER SUPPORT</b>	<b>839,557</b>	<b>6,528,717</b>	<b>7,368,274</b>
<b>EXPENSES</b>			
<b>PROGRAM SERVICES</b>			
Connections and fibers	-	2,494,958	2,494,958
Installation	-	153,747	153,747
Network parts and supplies	-	43,519	43,519
Amortization	-	741,991	741,991
Depreciation	-	520,441	520,441
<b>Total Program Expenses</b>	<b>-</b>	<b>3,954,656</b>	<b>3,954,656</b>
<b>SUPPORTING SERVICES</b>			
Professional fees			
Administration	391,882	498,084	889,966
Legal	20,714	-	20,714
Auditing	17,000	-	17,000
Accounting	8,505	-	8,505
Consulting	5,438	-	5,438
Salaries and wages	9,759	201,249	211,008
Travel	29,035	45,165	74,200
Books, subscriptions and reference materials	16,300	4,537	20,837
Insurance	42,449	-	42,449
Sponsored meetings	39,238	1,117	40,355
Office rent	23,241	-	23,241
Federation support	21,002	-	21,002
Membership dues	19,910	-	19,910
Office expenses	7,788	5,909	13,697
Computer and software supplies	6,327	6,566	12,893
Telephone	11,541	138	11,679
Payroll taxes	798	10,091	10,889
Marketing, education and awards	7,827	-	7,827
Office utilities and maintenance	6,413	-	6,413
Payroll processing fee	1,898	-	1,898
Depreciation	4,341	-	4,341
<b>Total Supporting Services</b>	<b>691,406</b>	<b>772,856</b>	<b>1,464,262</b>
<b>TOTAL EXPENSES</b>	<b>691,406</b>	<b>4,727,512</b>	<b>5,418,918</b>
<b>CHANGES IN NET ASSETS</b>	<b>148,151</b>	<b>1,801,205</b>	<b>1,949,356</b>
<b>NET ASSETS:</b>			
Beginning balance at January 1, 2013	583,474	14,450,457	15,033,931
Ending balance at December 31, 2013	\$ 731,625	\$ 16,251,662	\$ 16,983,287

See accountant's compilation report.

Alvin Community College  
 Angelina College  
 Austin Community College  
 Blinn College  
 Brazosport College  
 Del Mar College  
 Galveston College  
 Houston Community College  
 Kilgore College  
 Lamar Institute of Technology  
 Lamar State College - Orange  
 Lamar State College - Port Arthur  
 Midland College  
 Navarro College  
 Northeast Texas Community College  
 Panola College  
 Paris Junior College  
 Ranger College  
 Texarkana College  
 Texas Southmost College  
 Trinity Valley Community College  
 Tyler Junior College  
 Victoria College  
 Southwestern Adventist University - C.S. Dept.  
 Sul Ross State University  
 Sul Ross State University Rio Grande College  
 Tarleton State University  
 Texas A&M International University  
 Texas A&M University - Central Texas  
 Texas A&M University - Commerce  
 Texas A&M University - Kingsville  
 Texas A&M University - San Antonio  
 Texas A&M University - Texarkana  
 Texas A&M University at Galveston  
 Texas Southern University  
 University of Houston - Clear Lake  
 University of Houston - Downtown  
 University of Houston - Victoria  
 University of North Texas at Dallas  
 University of North Texas Health Science Center  
 University of Texas - Permian Basin  
 University of Texas at Brownsville  
 University of Texas at Tyler  
 West Texas A&M University  
 Alamo Area Council Of Governments  
 Brazos Valley Affordable Housing  
 Brazos Valley Council of Governments (BVCOG)  
 Brazos Valley Council on Alcohol and Substance Abuse  
 Brazos Valley Small Business Development Council  
 Bryan/College Station Chamber of Commerce

Cameron County  
 Citizen's Medical Center - Victoria  
 City of Austin Information Services  
 City of Fort Worth  
 Duncanville Public Library  
 Ector County Library  
 Fort Worth Public Library  
 Grimes County Clerk's Office  
 Guadalupe Valley Hospital  
 Hidalgo County Planned Parenthood  
 Lower Colorado River Authority  
 Medina Community Hospital  
 Mesquite Public Library  
 Mission Hospital  
 Newton County Library  
 Orange County  
 Parkland Memorial Hospital  
 Project Unity  
 Southwest Education Development Lab  
 Texas AgriLife Extension Service  
 Texas AgriLife Research  
 Texas Engineering Experiment Station  
 Texas Engineering Extension Service  
 Texas Forest Service  
 Texas Transportation Institute  
 Texas Veterinary Medical Diagnostic Lab  
 Travis County  
 Uvalde Memorial Hospital  
 Wharton County Library  
 Workforce Solutions Brazos Valley  
 Education Service Center - Region 2  
 Education Service Center - Region 3  
 Education Service Center - Region 4  
 Education Service Center - Region 5  
 Education Service Center - Region 6  
 Education Service Center - Region 7  
 Education Service Center - Region 8  
 Education Service Center - Region 9  
 Education Service Center - Region 11  
 Education Service Center - Region 13  
 Education Service Center - Region 14  
 Education Service Center - Region 15  
 Education Service Center - Region 16  
 Education Service Center - Region 17  
 Education Service Center - Region 18  
 Education Service Center - Region 19  
 Education Service Center - Region 20  
 Abernathy ISD  
 Adrian ISD  
 Agua Dulce ISD



Albany ISD  
Alice ISD  
Alief ISD  
Alpine ISD  
Alto ISD  
Amherst ISD  
Anderson-Shiro CISD  
Andrews ISD  
Angleton ISD  
Anson ISD  
Anton ISD  
Apple Springs ISD  
Archer City ISD  
Aspermont ISD  
Atlanta ISD  
Aubrey ISD  
Austin ISD  
Austwell-Tivoli ISD  
Avery ISD  
Avinger ISD  
Azleway Charter School  
Baird ISD  
Ballinger ISD  
Balmorhea ISD  
Bangs ISD  
Banquete ISD  
Bartlett ISD  
Bastrop ISD  
Beeville ISD  
Bellevue ISD  
Ben Bolt-Palito Blanco ISD  
Benavides ISD  
Benjamin ISD  
Big Sandy ISD  
Big Spring ISD  
Birdville ISD  
Bishop CISD  
Blackwell CISD  
Blanco ISD  
Blanket ISD  
Bloomburg ISD  
Bluff Dale ISD  
Bob Hope Charter School  
Boling ISD  
Booker ISD  
Borden County ISD  
Borger ISD  
Bovina ISD  
Bowie ISD  
Boys Ranch ISD

Brackett ISD  
Brady ISD  
Brazos ISD  
Brazos School for Inquiry & Creativity  
Breckenridge ISD  
Brenham ISD  
Bridge City ISD  
Broaddus ISD  
Brock ISD  
Bronte ISD  
Brookeland ISD  
Brooks County ISD  
Brooksmith ISD  
Brownfield ISD  
Brownwood ISD  
Bryson ISD  
Buckholts ISD  
Buena Vista ISD  
Bullard ISD  
Buna ISD  
Burkburnett ISD  
Burkeville ISD  
Burnet CISD  
Burton ISD  
Caldwell ISD  
Callisburg ISD  
Canadian ISD  
Canyon ISD  
Carthage ISD  
Castleberry ISD  
Cayuga ISD  
Centerville ISD  
Channelview ISD  
Channing ISD  
Chapel Hill ISD  
Chester ISD  
Childress ISD  
Chillicothe ISD  
Chisum ISD  
Christoval ISD  
Cisco ISD  
City View ISD  
Clarendon ISD  
Clarksville ISD  
Claude ISD  
Clint ISD  
Clyde CISD  
Coahoma ISD  
Coldspring-Oakhurst CISD  
Coleman ISD



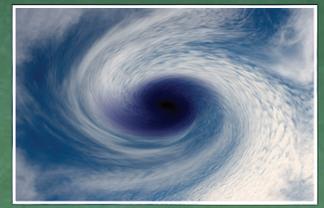
Colmesneil ISD  
 Colorado ISD  
 Comanche ISD  
 Comfort ISD  
 Community ISD  
 Como-Pickton CISD  
 Comstock ISD  
 Cooper ISD  
 Corpus Christi Montessori School  
 Corrigan-Camden ISD  
 Cotton Center ISD  
 Coupland ISD  
 Crane ISD  
 Crockett County Consolidated CSD  
 Crockett ISD  
 Crosbyton CISD  
 Cross Plains ISD  
 Cross Roads ISD  
 Crowell ISD  
 Cuero ISD  
 Culberson County ISD  
 Cumby ISD  
 Daingerfield-Lone Star ISD  
 Damon ISD  
 Danbury ISD  
 Darrouzett ISD  
 Dawson ISD  
 De Leon ISD  
 Dekalb ISD  
 Del Valle ISD  
 Denton ISD  
 Detroit ISD  
 Deweyville ISD  
 Dime Box ISD  
 Dimmitt ISD  
 Dodd City ISD  
 Doss Consolidated CSD  
 Douglass ISD  
 Dripping Springs ISD  
 Driscoll ISD  
 Duncanville ISD  
 Early ISD  
 Eastland ISD  
 Eden ISD  
 Eden Park Academy  
 Edna ISD  
 Electra ISD  
 Era ISD  
 Erath Excels Academy, Inc.  
 Etoile ISD

Eula ISD  
 Evadale ISD  
 Excelsior ISD  
 Ezzell ISD  
 Fannindel ISD  
 Fayetteville ISD  
 Flatonia ISD  
 Florence ISD  
 Floresville ISD  
 Floydada ISD  
 Follett ISD  
 Forestburg ISD  
 Forsan ISD  
 Fort Davis ISD  
 Fort Elliott CISD  
 Fort Hancock ISD  
 Fort Sam Houston ISD  
 Fort Stockton ISD  
 Fort Worth ISD  
 Frankston ISD  
 Fredericksburg ISD  
 Freer ISD  
 Gause ISD  
 George West ISD  
 Glasscock County ISD  
 Glen Rose ISD  
 Godley ISD  
 Gold Burg ISD  
 Goliad ISD  
 Gonzales ISD  
 Goodrich ISD  
 Gordon ISD  
 Gorman ISD  
 Grady ISD  
 Graford ISD  
 Grandfalls-Royalty ISD  
 Grandview-Hopkins ISD  
 Granger ISD  
 Grape Creek ISD  
 Grapeland ISD  
 Greenwood ISD  
 Groom ISD  
 Groveton ISD  
 Gruver ISD  
 Gustine ISD  
 Hale Center ISD  
 Hamlin ISD  
 Hampshire-Fannett ISD  
 Happy ISD  
 Harlingen CISD

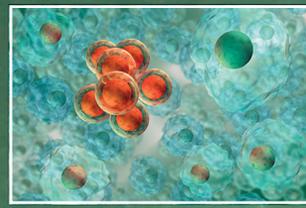


Harper ISD  
Harrold ISD  
Hart ISD  
Hartley ISD  
Harts Bluff ISD  
Haskell CISD  
Hawley ISD  
Hedley ISD  
Hemphill ISD  
Hempstead ISD  
Henrietta ISD  
Hermleigh ISD  
Higgins ISD  
High Island ISD  
Highland ISD  
Highland Park ISD  
Holliday ISD  
Hooks ISD  
Hubbard ISD  
Huckabay ISD  
Huntsville ISD  
Hutto ISD  
Industrial ISD  
Iola ISD  
Iowa Park CISD  
Ira ISD  
Iraan-Sheffield ISD  
Irion County ISD  
Jacksboro ISD  
Jarrell ISD  
Jefferson ISD  
Jim Ned CISD  
John Cooper School  
Johnson City ISD  
Joshua ISD  
Junction ISD  
Karnes City ISD  
Kelton ISD  
Kenedy County-Wide CSD  
Kenedy ISD  
Kennard ISD  
Kennedale ISD  
Kermit ISD  
Kingsville ISD  
Kinkaid School  
Kirbyville CISD  
Klein ISD  
Klondike ISD  
Knox City-O'Brien CISD  
Kountze ISD

Kress ISD  
La Gloria ISD  
La Grange ISD  
Lackland ISD  
Lake Travis ISD  
Lake Worth ISD  
Laneville ISD  
Lapoynor ISD  
Latexo ISD  
Leary ISD  
Lefors ISD  
Leggett ISD  
Leon ISD  
Leveretts Chapel ISD  
Liberty Hill ISD  
Liberty-Eylau ISD  
Linden-Kildare CISD  
Lindsay ISD  
Lingleville ISD  
Lipan ISD  
Little Cypress-Mauriceville CISD  
Littlefield ISD  
Lockhart ISD  
Lockney ISD  
Loop ISD  
Loraine ISD  
Lorenzo ISD  
Lovelady ISD  
Lueders-Avoca ISD  
Luling ISD  
Lumberton ISD  
Madisonville CISD  
Magnolia ISD  
Malakoff ISD  
Malta ISD  
Mansfield ISD  
Marathon ISD  
Marble Falls ISD  
Marfa ISD  
Marion ISD  
Martins Mill ISD  
Mason ISD  
Matagorda ISD  
Mathis ISD  
Maud ISD  
May ISD  
McCamey ISD  
McDade ISD  
McLean ISD  
McLeod ISD



- McMullen County ISD
- Meadow ISD
- Medina Valley ISD
- Memphis ISD
- Menard ISD
- Merkel ISD
- Meyersville ISD
- Miami ISD
- Midland Academy Charter
- Midway ISD
- Milano ISD
- Miles ISD
- Miller Grove ISD
- Monahans-Wickett-Pyote ISD
- Monsignor Kelly Catholic High School
- Montague ISD
- Moran ISD
- Morgan Mill ISD
- Morton ISD
- Moulton ISD
- Mount Enterprise ISD
- Mount Vernon ISD
- Muenster ISD
- Mumford ISD
- Munday CISD
- Murchison ISD
- Natalia ISD
- Navarro ISD
- Navasota ISD
- Nazareth ISD
- Neches ISD
- New Boston ISD
- New Braunfels ISD
- New Caney ISD
- New Deal ISD
- New Frontiers Charter School
- New Home ISD
- Newcastle ISD
- Newton ISD
- Nixon-Smiley CISD
- Nocona ISD
- Normangee ISD
- North Hopkins ISD
- North Lamar ISD
- North Zulch ISD
- Northside ISD
- Nueces Canyon ISD
- Nursery ISD
- Oakwood ISD
- O'Donnell ISD
- Olfen ISD
- Olney ISD
- Onalaska ISD
- Orange Grove ISD
- Orangefield ISD
- Overton ISD
- Paint Creek ISD
- Paint Rock ISD
- Palacios ISD
- Palo Pinto ISD
- Pampa ISD
- Panhandle ISD
- Panther Creek ISD
- Paris ISD
- Pawnee ISD
- Peaster ISD
- Pecos-Barstow ISD
- Perrin-Whitt CISD
- Perryton ISD
- Petersburg ISD
- Petrolia ISD
- Pettus ISD
- Pewitt CISD
- Pilot Point ISD
- Pittsburg ISD
- Plains ISD
- Pleasant Grove ISD
- Plemons-Stinnett-Phillips CISD
- Ponder ISD
- Poolville ISD
- Port Aransas ISD
- Port Arthur ISD
- Post ISD
- Prairie Lea ISD
- Prairie Valley ISD
- Prairiland ISD
- Presidio ISD
- Pringle-Morse CISD
- Quanah ISD
- Queen City ISD
- Ralls ISD
- Ramirez CSD
- Ranger ISD
- Rankin ISD
- Reagan County ISD
- Red Lick ISD
- Redwater ISD
- Refugio ISD
- Ricardo ISD
- Richard Milburn Academy (Midland)



- Richards ISD
- Richland Springs ISD
- Rio Vista ISD
- Rising Star ISD
- River Road ISD
- Rivercrest ISD
- Riviera ISD
- Robert Lee ISD
- Roby CISD
- Rochelle ISD
- Rocksprings ISD
- Roosevelt ISD
- Ropes ISD
- Roscoe ISD
- Rotan ISD
- Round Top-Carmine ISD
- Roxton ISD
- Rule ISD
- Runge ISD
- Sabinal ISD
- Sabine ISD
- Sabine Pass ISD
- Saint Jo ISD
- Saltillo ISD
- Sam Rayburn ISD
- San Antonio Technology Academy
- San Diego ISD
- San Saba ISD
- San Vincent ISD
- Sands CISD
- Sanford-Fritch ISD
- Santa Anna ISD
- Santa Gertrudis ISD
- Schertz-Cibolo-U City ISD
- Schleicher ISD
- Schulenburg ISD
- Seagraves ISD
- Sealy ISD
- Seashore Middle Academy
- Seymour ISD
- Shallowater ISD
- Shamrock ISD
- Shelbyville ISD
- Shepherd ISD
- Shiner ISD
- Sidney ISD
- Sierra Blanca ISD
- Silsbee ISD
- Silverton ISD
- Simms ISD
- Sivells Bend ISD
- Skidmore-Tynan ISD
- Slaton ISD
- Slidell ISD
- Slocum ISD
- Smyer ISD
- Snyder ISD
- Somerville ISD
- Sonora ISD
- Spearman ISD
- Spring Creek ISD
- Spring Hill ISD
- Spurger ISD
- St. Francis de Sales School
- St. Vincent de Paul School
- Stamford ISD
- Stanton ISD
- Sterling City ISD
- Stockdale ISD
- Strake Jesuit College Preparatory
- Stratford ISD
- Strawn ISD
- Sulphur Bluff ISD
- Sulphur Springs ISD
- Sundown ISD
- Sunray ISD
- Sweeny ISD
- Sweet Home ISD
- Sweetwater ISD
- Taft ISD
- Tahoka ISD
- Tarkington ISD
- Taylor ISD
- Tenaha ISD
- Terlingua ISD
- Terrell County ISD
- Texhoma ISD
- Texline ISD
- Thorndale ISD
- Thrall ISD
- Three Rivers ISD
- Three Way ISD
- Throckmorton ISD
- Tidehaven ISD
- TLC Academy
- Tolar ISD
- Trent ISD
- Trinidad ISD
- Tulia ISD
- Tuloso-Midway ISD



- Valentine ISD
- Valley View ISD
- Vega ISD
- Veribest ISD
- Vernon ISD
- Victoria ISD
- Vidor ISD
- Vysehrad ISD
- Waelder ISD
- Walcott ISD
- Wall ISD
- Walnut Bend ISD
- Warren ISD
- Water Valley ISD
- Wellington ISD
- Wellman-Union CISD
- West Hardin County CISD
- West Orange-Cove CISD
- West Oso ISD
- West Rusk ISD
- West Sabine ISD
- Westbrook ISD
- Westhoff ISD
- Wharton ISD
- Wheeler ISD
- White Deer ISD
- White Settlement ISD
- Whiteface CISD
- Whitharral ISD
- Wichita Falls ISD
- Wildorado ISD
- Wilson ISD
- Wimberley ISD
- Windthorst ISD
- Winfield ISD
- Wink-Loving ISD
- Winters ISD
- Woden ISD
- Woodson ISD
- Woodville ISD
- Wylie ISD
- Yoakum ISD
- Yorktown ISD
- Zavalla ISD
- Zephyr ISD



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