EXPENDITURES FOR RESEARCH AND OTHER SPONSORED PROJECTS

September 1, 1996 - August 31, 1997

Texas Public Universities and
Health-Related Institutions

Texas Higher Education Coordinating Board
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April 1998

Texas Higher Education Coordinating Board

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Coordinating Board Mission

The mission of the Texas Higher Education Coordinating Board is to provide the Legislature advice and comprehensive planning capability for higher education, to coordinate the effective delivery of higher education, to administer programs efficiently and to improve higher education for the people of Texas.

Coordinating Board Philosophy

The Texas Higher Education Coordinating Board will promote access to quality higher education across the state with the conviction that access without quality is mediocrity and that quality without access is unacceptable. The Board will be open, ethical, responsive, and committed to public service. The Board will approach its work with a sense of purpose and responsibility to the people of Texas and is committed to the best use of public monies.

Created by the Texas Legislature in 1965, the Texas Higher Education Coordinating Board works with institutions of higher education, other state agencies, the Legislature and the Governor to ensure that Texans seeking higher education have access to high quality programs. The Board's overall responsibilities include assessing the state of higher education in Texas, making recommendations to the Governor, Legislature and institutions for its enhancement, and establishing policies for the efficient and effective use of the state's higher education resources.

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EXECUTIVE SUMMARY

This research expenditures report is based on data provided by each Texas public university and health-related institution for Fiscal Year 1997 – September 1, 1996 through August 31, 1997. Highlights include:

- Total research expenditures increased 4.5 percent over Fiscal Year 1996. Research expenditures in Fiscal Year 1997 were $1,322,665,788. In Fiscal Year 1996, the total was $1,265,786,060.

- Total research expenditures doubled since Fiscal Year 1987.

- Royalties, licensing fees, or other transactions involving intellectual property produced through research generated $17,956,120 – a 1.3 percent increase over the $17,729,843 received in Fiscal Year 1996. In Fiscal Year 1997, 176 new intellectual properties were produced – a 45.5 percent increase over Fiscal Year 1996.

- Five institutions – The University of Texas M. D. Anderson Cancer Center, Texas A&M University and Services, The University of Texas Southwestern Medical Center at Dallas, The University of Texas Health Science Center at San Antonio, and The University of Texas at Austin – generated 95.2 percent of intellectual property income.

- The federal government provided 55.8 percent of the research funds expended and continues to be the largest source of research funds. This is a small increase over Fiscal Year 1996.

- Research expenditures in some areas of special interest include: Cancer – $177,260,584; Biotechnology – $104,066,448; Food, Fiber, and Agricultural Products – $53,365,540; Energy – $49,512,326; Material Science and Engineering – $49,153,228.

- The top 10 research institutions together account for 89.7 percent of all research expenditures in the state's public universities and health-related institutions. The top five account for 70.8 percent. For the past three years, the same institutions held the top 10 positions in research expenditures. Five of the top 10 are health-related institutions. Three institutions – The University of Texas Southwestern Medical Center at Dallas, The University of Texas Health Science Center at Houston, and The University of Texas Health Science Center at San Antonio – have substantially higher ratios of federal-to-state support for research than the other seven institutions in the research expenditures top 10 list.

- Consistent with funding patterns for recent years, slightly more than half of higher education research funds from federal and state sources supported research in life sciences – medical, biological, and agricultural sciences.

OVERVIEW

The Texas Higher Education Coordinating Board's annual research expenditures report summarizes data submitted to the Board as required by Section 61.051(h) of the Texas Education Code, which states:

> "Once a year, on dates prescribed by the board, each institution of higher education shall report to the board all research conducted at that institution during the last preceding year."

The Coordinating Board's summary report is based on expenditures rather than awards because expenditures more accurately reflect the level of current research activity. Awards tend to fluctuate from year to year, making them a much less stable indicator for year-to-year comparisons.

The Coordinating Board is only able to verify the accuracy of the research expenditures data by comparing it with data provided by the institutions in their Annual Financial Reports. Institutions are asked to ensure that the data reported is consistent with data in their Annual Financial Reports, and a set of definitions is provided to help ensure consistency from institution to institution. Even with these safeguards, institutions have some latitude in determining how they report data.

Data elements and definitions used in this year's report are comparable to similar research expenditure data elements used by the National Science Foundation (NSF). The two sets of elements differ to some degree because the NSF focuses on science and technology alone, while the Coordinating Board's report includes research in all disciplines.

Collection of research expenditure data is a challenging task for institutions. For that reason, information they have submitted and the Coordinating Board's research expenditures report should be considered indicative rather than definitive. Administrators face many difficulties as they sort out research expenditures at their institutions.

Appendix A includes a copy of the survey completed by each institution. Appendix B includes a list of the institutional contacts who collected the data on their campuses.

MAJOR FINDINGS

Total research expenditures at Texas public institutions of higher education increased by 4.5 percent during Fiscal Year 1997, continuing a long-term growth trend. Research expenditures increased by 2.2 percent at public universities and by 8.0 percent at public health-related institutions.

As in most states, Texas' higher education research expenditures were concentrated in a relatively small number of institutions. Collectively, the top five institutions in research spending accounted for 70.8 percent of total research expenditures. The top 10 institutions accounted for 89.7 percent of the total.

The top six institutions shown in Table 1 also appear in the National Science Foundation's list of top 100 institutions in federal research and development expenditures for 1995 and 1996.

Texas health-related institutions have very strong research programs. Five of them ranked among the top 10 Texas public institutions in research expenditures.

Table 1

Research and Development Expenditure Rankings

Institution	1994	1995	1996	1997
Texas A&M University (Including Texas A&M Services)	1	1	1	1
The University of Texas at Austin	2	2	2	2
The University of Texas Southwestern Medical Center at Dallas	4	3	3	3
The University of Texas M.D. Anderson Cancer Center	3	4	4	4
The University of Texas Health Science Center at Houston	6	6	5	5
The University of Texas Health Science Center at San Antonio	5	5	6	6
The University of Texas Medical Branch at Galveston	7	7	7	7
University of Houston	8	8	8	8
Texas Tech University	9	9	9	9
The University of Texas at Arlington	11	10	10	10

The federal government funded 55.8 percent of all research expenditures by Texas public institutions of higher education, making it the source of most research funds – as it is in other states. At academic institutions[1] nationwide, the National Science

[1]For this purpose, academic institutions are generally defined as institutions of higher education that grant doctorates in science or engineering and/or spend at least $50,000 for separately budgeted research and development.

Foundation/SRS, *Survey of Research and Development Expenditures at Universities and Colleges, FY 1996*, reported that 60.1 percent of research was funded by the federal government. State government in Texas provided 19.4 percent of all research expenditures in the state's public higher education institutions. Institutional and private funding accounted for the remaining 24.8 percent.

The ratio of federal funds to state-appropriated funds for each of the 10 Texas institutions reporting the greatest research expenditures is provided in Table 2.

Table 2

Federal/State Research and Development Expenditure Ratio Rankings

Institution	Expend Rank	Fed/State Ratio	Ratio Rank
The University of Texas Southwestern Medical Center at Dallas	3	12.81	1
The University of Texas Health Science Center at Houston	5	11.63	2
The University of Texas Health Science Center at San Antonio	6	7.5	3
The University of Texas at Arlington	10	4.55	4
The University of Texas at Austin	2	4.23	5
The University of Texas Medical Branch at Galveston	7	3.89	6
Texas A&M University (Including Texas A&M Services)	1	1.66	7
University of Houston	8	1.59	8
Texas Tech University	9	1.07	9
The University of Texas M.D. Anderson Cancer Center	4	1.04	10

Medical sciences, accounting for 35.9 percent of the total, led all other disciplines in expenditures. The top five disciplines – medical sciences, engineering, biological and other life sciences, physical sciences, and environmental sciences – collectively accounted for 84.4 percent of all reported research expenditures.

Institutions earned $17,956,120 from royalties, licenses, and other transactions involving 691 different intellectual properties produced through research. In Fiscal Year 1997, 176 new patents or copyrights were issued to Texas public higher education institutions.

STATEWIDE SUMMARY DATA

Expenditures related to research are divided into two categories: (1) expenditures for the conduct of research and development, and (2) other sponsored activities. "Other sponsored activities" refers to support received from external sources to fund activities that cannot be considered strictly research. Examples include grants for equipment or facilities, contracts to perform studies, and training. Definitions for both categories are included in the survey form, Appendix A.

Tables 3 and 4 and Figures 1 - 4 provide information on expenditures and sources of funds for research and development and for other sponsored activities related to research at public universities and health-related institutions. Some institutions do not report funds used for other sponsored activities related to research.

Table 3

Reported Expenditures of Funds for Research and Other Sponsored Programs FY 1997

	Public Universities	Public Health-Related Institutions	Total
Conduct of Research and Development	$785,609,144	$537,056,644	$1,322,665,788
Other Sponsored Programs	$94,697,645	$96,712,291	$191,409,936
Totals	**$880,306,789**	**$633,768,935**	**$1,514,075,724**

Table 4

Reported Expenditures of Funds for Research and Other Sponsored Programs by Source of Funding, FY 1997

	Public Universities			Public Health-Related Institutions			Total
	Research and Development	Other	Total	Research and Development	Other	Total	
Federal	$422,253,052	$57,564,455	$479,817,507	$315,781,968	$36,534,718	$352,316,686	$832,134,193
State	$173,584,632	$12,844,607	$186,429,239	$82,762,204	$35,398,340	$118,160,544	$304,589,783
Institution	$85,559,081	$4,739,912	$90,298,993	$18,699,430	$0	$18,699,430	$108,998,423
Private	$104,212,379	$19,548,671	$123,761,050	$119,813,042	$24,779,233	$144,592,275	$268,353,325
Totals	**$785,609,144**	**$94,697,645**	**$880,306,789**	**$537,056,644**	**$96,712,291**	**$633,768,935**	**$1,514,075,724**

Figure 1

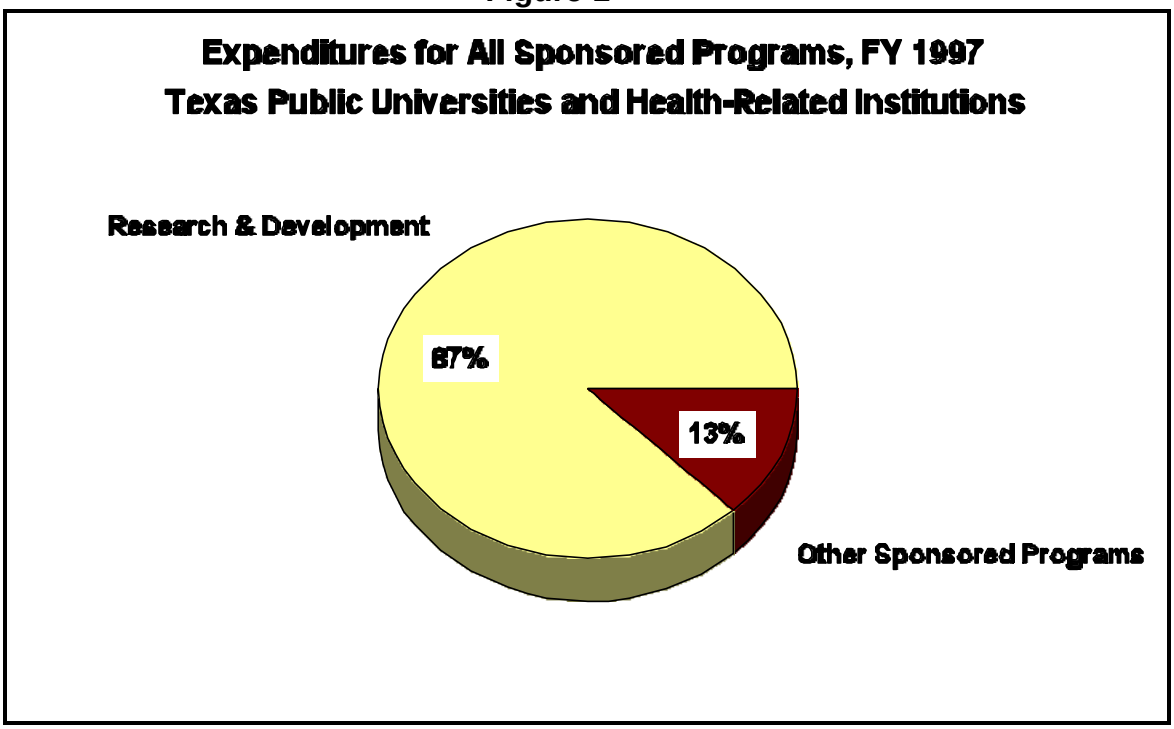


Figure 2

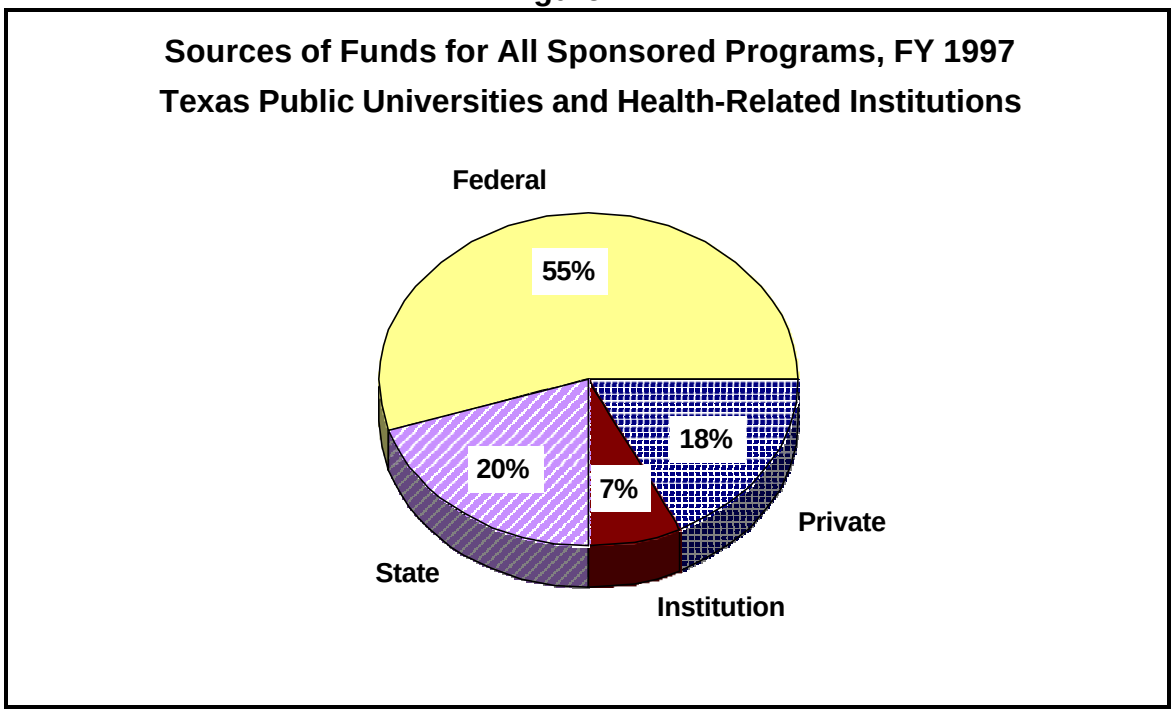


Figure 3

Sources of Funds for Research and Development, FY 1997
Texas Public Universities and Health-Related Institutions

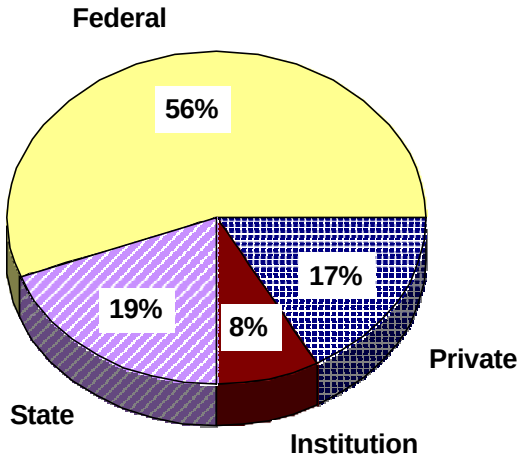


Figure 4

Sources of Funds for Other Sponsored Activities, FY 1997
Texas Public Universities and Health-Related Institutions

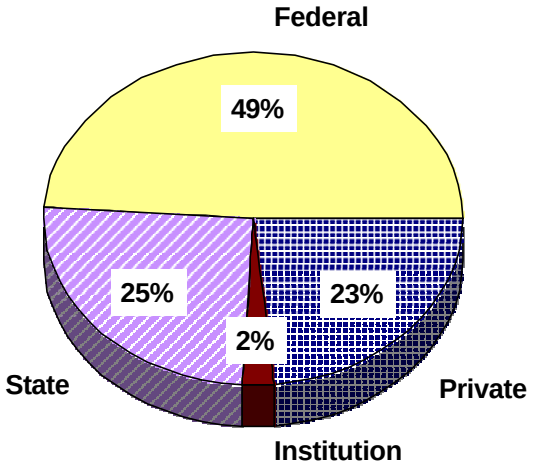


Table 5 indicates expenditures in the 16 different fields defined in Appendix A. The Coordinating Board's instructions directed institutions to assign project expenditures to only one field to avoid duplication.

For the most part, this table reflects expenditures in particular academic disciplines. Some inconsistency may result, however, as institutions strive to categorize a particular research project into only one field. For example, a college of agriculture could perform basic research in biological sciences and report expenditures in that field rather than in agricultural sciences.

Table 5

Expenditures for Research and Development by Field and Source of Funding, FY 97
Texas Public Universities and Health-Related Institutions

Field	Federal	State	Institution	Private	Total
Medical Sciences	$286,617,195	$58,349,927	$15,771,375	$113,626,844	$474,365,341
Engineering	$131,395,899	$48,836,923	$30,832,420	$31,576,531	$242,641,773
Biological and Other Life Sciences	$79,759,210	$55,393,787	$19,387,204	$21,360,942	$175,901,143
Physical Sciences	$71,488,813	$20,942,752	$5,614,343	$18,088,076	$116,133,984
Environmental Sciences	$74,162,768	$14,659,986	$4,987,159	$14,124,509	$107,934,422
Agricultural Sciences	$20,630,540	$22,882,315	$11,380,949	$10,546,915	$65,440,719
Computer Science	$27,554,738	$3,120,732	$3,242,413	$1,442,814	$35,360,697
Social Sciences	$13,283,215	$10,955,913	$4,008,730	$3,920,215	$32,168,073
Education	$9,757,335	$5,213,647	$1,722,155	$2,127,146	$18,820,283
Mathematical Sciences	$8,000,494	$5,259,804	$826,558	$910,945	$14,997,801
Business Administration	$4,113,765	$5,823,941	$1,035,831	$1,761,009	$12,734,546
Psychology	$7,223,920	$1,458,470	$650,892	$514,018	$9,847,300
Arts and Humanities	$730,675	$631,547	$2,916,264	$1,975,373	$6,253,859
Other Non-Science Activities	$1,393,688	$860,385	$1,687,050	$559,032	$4,500,155
Law and Public Administration	$1,064,778	$1,765,799	$63,996	$1,045,119	$3,939,692
Other Sciences	$857,987	$190,908	$131,172	$445,933	$1,626,000
Totals	**$738,035,020**	**$256,346,836**	**$104,258,511**	**$224,025,421**	**$1,322,665,788**

Table 6 shows research in 11 different areas of special interest. Double counting was allowed because many projects are relevant to two or more areas of research.

Table 6

Expenditures for Research and Development in Areas of Special Interest, FY 97
Texas Public Universities and Health-Related Institutions

Functional Area	Federal	State	Institution	Private	Total
Cancer Research	$84,934,864	$51,245,189	$12,086,596	$28,993,935	$177,260,584
Biotechnology	$45,963,430	$27,824,468	$11,511,337	$18,767,213	$104,066,448
Food, Fiber, & Agricultural Products	$15,377,216	$22,877,150	$7,070,305	$8,040,869	$53,365,540
Energy	$35,851,971	$5,842,246	$1,982,618	$5,835,491	$49,512,326
Materials Science & Engineering	$32,314,250	$6,333,526	$1,194,295	$9,311,157	$49,153,228
Environmental Science & Engineering	$30,601,128	$10,656,341	$2,815,627	$4,813,808	$48,886,904
Microelectronics & Computer Technology	$38,726,850	$3,819,034	$1,048,347	$3,300,488	$46,894,719
Aerospace Technology	$31,340,455	$1,782,924	$1,280,730	$2,921,213	$37,325,322
Manufacturing Technology	$14,055,884	$2,499,472	$409,792	$2,485,082	$19,450,230
AIDS Research	$12,494,565	$2,790,834	$118,968	$2,666,403	$18,070,770
Water Resources	$2,170,731	$1,952,896	$667,354	$1,477,105	$6,268,086
Totals	**$343,831,344**	**$137,624,080**	**$40,185,969**	**$88,612,764**	**$610,254,157**

RANKINGS BY FIELD

Texas A&M University, including Texas A&M Services, and The University of Texas at Austin are among the top institutions in research expenditures in most fields. Texas Tech University and the University of Houston also rank high in many of the fields. Not unexpectedly, the top five institutions in medical sciences are health-related institutions. However, the tables below illustrate that some other institutions have focused their efforts on selected fields and also have highly ranked programs.

Field definitions and lists of institutions with the largest research and development expenditures by fields of study follow.

Agricultural science deals with the production of food and fiber. It includes research in plant sciences, animal sciences, aquaculture, agricultural economics, and other topics related to the agricultural enterprise.

Texas Public Universities	
Institution	**Expenditures**
Texas A&M University and Services	$46,833,724
Texas Tech University	$7,642,223
Prairie View A&M University	$3,504,888
Texas A&M University at Kingsville	$3,236,931
Stephen F. Austin State University	$2,221,195

Arts and humanities includes topics such as art, music, history, languages, religion, and other aspects of human culture and heritage.

Texas Public Universities	
Institution	**Expenditures**
The University of Texas at Austin	$3,890,389
University of Houston	$510,008
University of North Texas	$435,014
Texas A&M University and Services	$351,995
The University of Texas at Arlington	$288,503

Biological and Other Life Sciences include those life sciences (other than medical and agricultural sciences) dealing with the origin, development, structure, function, and interaction of living things. Examples include bacteriology, ecology, genetics, and plant sciences.

Texas Public Universities	
Institution	**Expenditures**
Texas A&M University and Services	$61,472,497
The University of Texas at Austin	$19,505,937
University of Houston	$3,111,208
Texas Southern University	$2,919,515
Texas Tech University	$2,872,125

Texas Public Health-Related Institutions	
Institution	**Expenditures**
The University of Texas M. D. Anderson Cancer Center	$54,206,462
The University of Texas Health Science Center at Houston	$15,940,589
Texas Tech Health Sciences Center	$2,447,116

Business administration deals with the management and operation of business enterprises. It includes work in marketing, accounting, and related topics.

Texas Public Universities	
Institution	**Expenditures**
The University of Texas at Austin	$4,577,271
Texas Tech University	$2,734,588
Texas A&M University and Services	$2,127,939
The University of Texas at El Paso	$792,083
The University of Texas-Pan American	$512,467

Computer science is concerned with the application of mathematical methods to automated information systems, the development of computer technology, and advanced applications of computers.

Texas Public Universities	
Institution	**Expenditures**
The University of Texas at Arlington	$13,683,718
The University of Texas at Austin	$10,118,922
Texas A&M University and Services	$4,579,883
University of Houston	$2,001,613
University of Houston-Clear Lake	$1,132,009

Education includes research related to any aspect of education, including elementary, secondary, and higher education, as well as educational policy and education administration.

Texas Public Universities	
Institution	**Expenditures**
Texas A&M University and Services	$4,791,519
The University of Texas at Austin	$4,221,105
University of North Texas	$4,016,531
University of Houston	$1,670,766
Texas Tech University	$783,463

Engineering is concerned with developing engineering principles or applying specific principles to engineering practices.

Texas Public Universities	
Institution	**Expenditures**
The University of Texas at Austin	$108,909,869
Texas A&M University and Services	$88,845,220
Texas Tech University	$10,957,719
The University of Texas at Arlington	$8,568,881
University of Houston	$7,859,369

Environmental sciences is concerned with the gross, non-biological properties of the solar system that directly or indirectly affect human survival and welfare. These include atmospheric sciences, geological sciences, and oceanography.

Texas Public Universities	
Institution	**Expenditures**
Texas A&M University and Services	$60,778,411
The University of Texas at Austin	$26,570,420
Sam Houston State University	$4,935,354
The University of Texas at El Paso	$2,949,891
Tarleton State University	$2,498,569

Law and public administration includes research related to legal systems and to public policy at federal, state, or local levels.

Texas Public Universities	
Institution	**Expenditures**
The University of Texas at Austin	$2,481,540
University of Houston	$855,545
University of North Texas	$432,165
Texas Southern University	$60,627
Texas Tech University	$27,977

Mathematical sciences employ logical reasoning with the aid of symbols and develop methods of operation employing those symbols.

Texas Public Universities	
Institution	**Expenditures**
The University of Texas at Austin	$7,240,333
Texas A&M University and Services	$1,685,343
University of Houston	$1,092,447
Texas Tech University	$584,485
University of North Texas	$411,444

Medical sciences are concerned with the causes, effects, prevention, or control of abnormal conditions in humans or their environment as they relate to health.

Texas Public Universities	
Institution	**Expenditures**
The University of Texas at Austin	$6,951,832
Texas A&M University and Services	$4,743,702
University of Houston	$2,131,586
The University of Texas at Dallas	$747,047
The University of Texas-Pan American	$582,843

Texas Public Health-Related Institutions	
Institution	**Expenditures**
The University of Texas Southwestern Medical Center at Dallas	$140,409,041
The University of Texas Health Science Center at Houston	$79,698,050
The University of Texas Health Science Center at San Antonio	$74,695,676
The University of Texas M. D. Anderson Cancer Center	$70,243,690
The University of Texas Medical Branch at Galveston	$68,020,411

Physical sciences are concerned with the understanding of the material universe and its phenomena. These include astronomy, chemistry, physics, and physical sciences not classified elsewhere.

Texas Public Universities	
Institution	**Expenditures**
The University of Texas at Austin	$51,959,211
University of Houston	$21,040,111
Texas A&M University and Services	$20,015,492
The University of Texas at Dallas	$6,263,127
Texas Tech University	$3,942,373

Psychology deals with behavior, mental processes, and individual and group characteristics and abilities.

Texas Public Universities	
Institution	**Expenditures**
The University of Texas at Austin	$2,665,066
University of Houston	$2,309,284
Texas A&M University and Services	$2,101,623
The University of Texas at Dallas	$994,465
University of North Texas	$861,876

Social sciences are directed toward understanding the behavior of social institutions, groups, and individuals as members of a group. These include anthropology, economics, history, linguistics, political science, and sociology.

Texas Public Universities	
Institution	**Expenditures**
Texas A&M University and Services	$14,231,950
The University of Texas at Austin	$5,011,338
Texas Tech University	$2,367,346
The University of Texas at Arlington	$2,011,755
The University of Texas at San Antonio	$1,872,730

INSTITUTIONAL DATA – UNIVERSITIES

This section of the report contains detailed information on research expenditures reported by individual institutions. Statements related to data quality and applicability found on page 2 of this report also apply to the data shown in this section of the report.

Figure 5

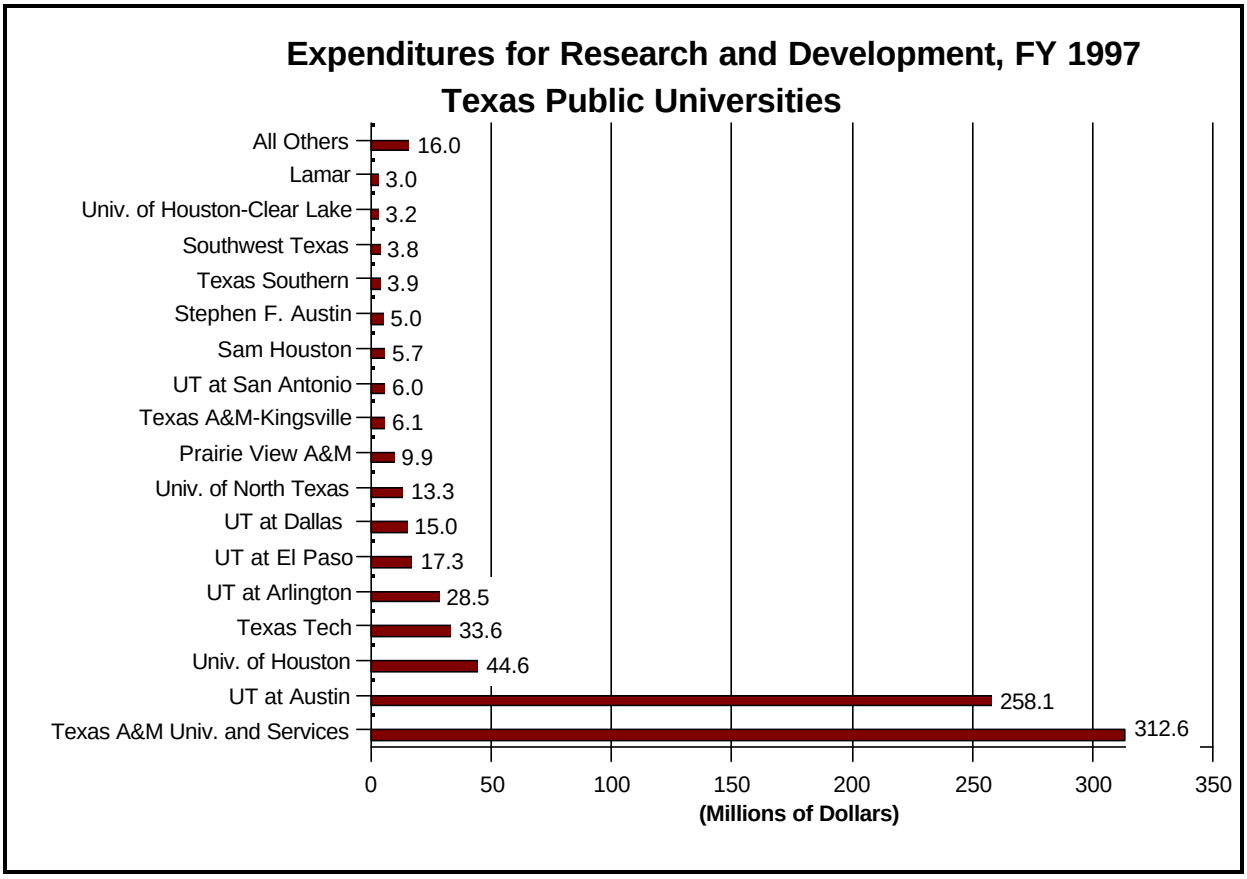


Table 7

Total Expenditures for Sponsored Programs by Source of Funds, FY 97
Texas Public Universities

Institution	Federal		State		Institution	
	R&D	Other	R&D	Other	R&D	Other
Midwestern State	$5,624	$0	$12,759	$0	$0	$0
Stephen F. Austin State	$2,288,456	$0	$70,879	$0	$1,778,799	$0
Texas A&M University System						
Prairie View A&M	$9,428,834	$103,833	$143,713	$0	$0	$0
Tarleton State	$1,070,161	$0	$1,468,332	$0	$0	$0
Texas A&M Univ. and Services	$141,960,304	$738,932	$85,292,673	$244,924	$51,256,124	$121,246
Texas A&M-Commerce	$114,325	$6,131,990	$76,961	$52,850	$12,672	$9,917
Texas A&M-Corpus Christi	$826,440	$0	$354,693	$876,706	$0	$0
Texas A&M at Galveston	$1,347,941	$2,049,490	$475,384	$152,998	$154,433	$171,377
Texas A&M International	$5,520	$0	$20,919	$0	$27,136	$0
Texas A&M-Kingsville	$1,602,996	$2,460,057	$2,816,275	$419,934	$0	$0
Texas A&M-Texarkana	$0	$0	$0	$2,761	$0	$0
West Texas A&M	$72,145	$3,019,669	$1,338,469	$0	$955	$0
Texas Southern	$3,707,347	$6,196,627	$48,994	$746,363	$2,337	$433,752
Texas State University System						
Angelo State	$1,864	$0	$417,194	$16,729	$0	$0
Lamar	$1,758,158	$1,071,193	$1,126,002	$281,634	$0	$74,188
Sam Houston State	$4,974,014	$0	$511,618	$63,304	$40,378	$0
Southwest Texas State	$1,448,596	$1,997,387	$1,306,822	$1,206,695	$633,496	$0
Sul Ross State	$147,979	$0	$113,404	$0	$0	$0
Sul Ross-Rio Grande	$0	$0	$6,947	$0	$0	$0
Texas Tech	$13,383,042	$2,056,110	$12,500,218	$151,542	$456,182	$0
Texas Woman's	$1,326,470	$0	$658,893	$0	$0	$0
The University of Texas System						
UT at Arlington	$21,083,328	$0	$4,632,958	$0	$36,120	$0
UT at Austin	$157,336,911	$0	$37,231,282	$0	$24,439,748	$0
UT at Brownsville	$0	$0	$53,443	$0	$0	$0
UT at Dallas	$6,371,163	$1,475,720	$1,583,421	$0	$2,274,446	$0
UT at El Paso	$13,855,019	$18,506,329	$1,986,099	$909,195	$919,724	$0
UT-Pan American	$1,029,730	$0	$957,095	$0	$66,893	$0
UT-Permian Basin	$307,224	$17,002	$113,823	$282,195	$0	$118,862
UT at San Antonio	$4,229,496	$7,323,733	$1,161,031	$1,860,248	$274,869	$386
UT at Tyler	$285,812	$0	$110,464	$0	$39,508	$0
University of Houston System						
Univ. of Houston	$22,838,362	$3,826,509	$14,325,102	$3,309,872	$923,627	$0
Univ. of Houston-Clear Lake	$3,023,031	$182,707	$54,845	$117,443	$0	$0
Univ. of Houston-Downtown	$900,094	$201,358	$0	$0	$89,787	$0
Univ. of Houston-Victoria	$942	$0	$12,523	$0	$0	$0
Univ. of North Texas	$5,521,724	$205,809	$2,601,397	$2,149,214	$2,131,847	$3,810,184
Totals	**$422,253,052**	**$57,564,455**	**$173,584,632**	**$12,844,607**	**$85,559,081**	**$4,739,912**

Shading indicates the five highest expenditures in each field.

Table 7 - continued

Total Expenditures for Sponsored Programs by Source of Funds, FY 97
Texas Public Universities

Institution	Private		Total		
	R&D	Other	R&D	Other	Total
Midwestern State	$23,979	$0	$42,362	$0	$42,362
Stephen F. Austin State	$858,198	$0	$4,996,332	$0	$4,996,332
Texas A&M University System					
Prairie View A&M	$286,281	$0	$9,858,828	$103,833	$9,962,661
Tarleton State	$48,990	$0	$2,587,483	$0	$2,587,483
Texas A&M Univ. and Services	$34,068,976	$1,706,199	$312,578,077	$2,811,301	$315,389,378
Texas A&M-Commerce	$180,680	$271,318	$384,638	$6,466,075	$6,850,713
Texas A&M-Corpus Christi	$362,021	$537,821	$1,543,154	$1,414,527	$2,957,681
Texas A&M at Galveston	$688,780	$0	$2,666,538	$2,373,865	$5,040,403
Texas A&M International	$0	$54,365	$53,575	$54,365	$107,940
Texas A&M-Kingsville	$1,699,746	$97,040	$6,119,017	$2,977,031	$9,096,048
Texas A&M-Texarkana	$0	$0	$0	$2,761	$2,761
West Texas A&M	$115,338	$0	$1,526,907	$3,019,669	$4,546,576
Texas Southern	$108,511	$1,144,793	$3,867,189	$8,521,535	$12,388,724
Texas State University System					
Angelo State	$90,458	$0	$509,516	$16,729	$526,245
Lamar	$117,339	$104,729	$3,001,499	$1,531,744	$4,533,243
Sam Houston State	$166,409	$0	$5,692,419	$63,304	$5,755,723
Southwest Texas State	$453,269	$1,236,856	$3,842,183	$4,440,938	$8,283,121
Sul Ross State	$52,046	$0	$313,429	$0	$313,429
Sul Ross-Rio Grande	$0	$0	$6,947	$0	$6,947
Texas Tech	$7,300,981	$6,113,947	$33,640,423	$8,321,599	$41,962,022
Texas Woman's	$322,671	$0	$2,308,034	$0	$2,308,034
The University of Texas System					
UT at Arlington	$2,767,171	$0	$28,519,577	$0	$28,519,577
UT at Austin	$39,080,396	$0	$258,088,337	$0	$258,088,337
UT at Brownsville	$0	$0	$53,443	$0	$53,443
UT at Dallas	$4,779,448	$0	$15,008,478	$1,475,720	$16,484,198
UT at El Paso	$554,234	$5,429,494	$17,315,076	$24,845,018	$42,160,094
UT-Pan American	$56,856	$0	$2,110,574	$0	$2,110,574
UT-Permian Basin	$32,974	$4,595	$454,021	$422,654	$876,675
UT at San Antonio	$321,486	$719,020	$5,986,882	$9,903,387	$15,890,269
UT at Tyler	$12,481	$0	$448,265	$0	$448,265
University of Houston System					
Univ. of Houston	$6,502,735	$2,049,115	$44,589,826	$9,185,496	$53,775,322
Univ. of Houston-Clear Lake	$78,483	$15,806	$3,156,359	$315,956	$3,472,315
Univ. of Houston-Downtown	$0	$37,362	$989,881	$238,720	$1,228,601
Univ. of Houston-Victoria	$0	$0	$13,465	$0	$13,465
Univ. of North Texas	$3,081,442	$26,211	$13,336,410	$6,191,418	$19,527,828
Totals	**$104,212,379**	**$19,548,671**	**$785,609,144**	**$94,697,645**	**$880,306,789**

Shading indicates the five highest expenditures in each field.

Table 8

Federal Research and Development Expenditures/FTE Faculty Ratio, FY 97
Texas Public Universities

Institution	Federal R&D Expenditures	FTE Faculty*	Federal R&D Expenditures/ FTE Faculty Ratio**
Midwestern State	$5,624	125.87	$44.68
Stephen F. Austin State	$2,288,456	332.58	$6,880.92
Texas A&M University System			
Prairie View A&M	$9,428,834	144.77	$65,129.75
Tarleton State	$1,070,161	139.82	$7,653.85
Texas A&M Univ. and Services	$141,960,304	1229.08	$115,501.27
Texas A&M-Commerce	$114,325	202.29	$565.15
Texas A&M-Corpus Christi	$826,440	163.93	$5,041.42
Texas A&M at Galveston	$1,347,941	29.08	$46,352.85
Texas A&M International	$5,520	95.33	$57.90
Texas A&M-Kingsville	$1,602,996	201.41	$7,958.87
Texas A&M-Texarkana	$0	26.99	NA
West Texas A&M	$72,145	145.91	$494.45
Texas Southern	$3,707,347	263.61	$14,063.76
Texas State University System			
Angelo State	$1,864	141.82	$13.14
Lamar	$1,758,158	218.15	$8,059.40
Sam Houston State	$4,974,014	305.12	$16,301.83
Southwest Texas State	$1,448,596	454.90	$3,184.43
Sul Ross State	$147,979	66.76	$2,216.58
Sul Ross-Rio Grande	$0	21.00	NA
Texas Tech	$13,383,042	718.71	$18,620.92
Texas Woman's	$1,326,470	294.07	$4,510.73
The University of Texas System			
UT at Arlington	$21,083,328	507.48	$41,545.14
UT at Austin	$157,336,911	1614.60	$97,446.37
UT at Brownsville	$0	119.65	NA
UT at Dallas	$6,371,163	200.73	$31,739.96
UT at El Paso	$13,855,019	397.72	$34,836.11
UT-Pan American	$1,029,730	274.04	$3,757.59
UT-Permian Basin	$307,224	54.45	$5,642.31
UT at San Antonio	$4,229,496	347.79	$12,161.06
UT at Tyler	$285,812	110.27	$2,591.93
University of Houston System			
Univ. of Houston	$22,838,362	811.16	$28,155.19
Univ. of Houston-Clear Lake	$3,023,031	142.51	$21,212.76
Univ. of Houston-Downtown	$900,094	124.57	$7,225.61
Univ. of Houston-Victoria	$942	31.89	$29.54
Univ. of North Texas	$5,521,724	654.44	$8,437.33
Totals	**$422,253,052**	**10,712.50**	**$39,416.85**

** FTE Faculty indicates number of full-time equivalents for tenured and tenure-track faculty, Spring 1997.

* NA indicates “not applicable” (no federal R&D dollars expended).

Table 9

Expenditures for Research and Development by Field, FY 97
Texas Public Universities

Institution	Agricultural Sciences	Arts & Humanities	Biological & Other Life Sciences	Business Administration	Computer Science	Education
Midwestern State	$0	$3,172	$11,699	$4,921	$5,998	$4,823
Stephen F. Austin State	$2,221,195	$170,136	$1,530,414	$8,873	$29,512	$8,780
Texas A&M University System						
Prairie View A&M	$3,504,888	$0	$378,908	$2,000	$154,482	$113,916
Tarleton State	$0	$1,839	$0	$0	$0	$0
Texas A&M Univ. and Services	$46,833,724	$351,995	$61,472,497	$2,127,939	$4,579,883	$4,791,519
Texas A&M-Commerce	$185,364	$8,350	$12,800	$7,250	$300	$78,288
Texas A&M-Corpus Christi	$0	$18,950	$127,546	$20,009	$4,102	$35,625
Texas A&M at Galveston	$0	$6,058	$198,511	$3,169	$1,751	$0
Texas A&M International	$0	$4,226	$6,954	$27,185	$0	$0
Texas A&M-Kingsville	$3,236,931	$0	$493,027	$0	$94,126	$769
Texas A&M-Texarkana	$0	$0	$0	$0	$0	$0
West Texas A&M	$1,161,563	$28,630	$63,466	$5,798	$5,329	$15,891
Texas Southern	$0	$6,694	$2,919,515	$764	$0	$30,590
Texas State University System						
Angelo State	$341,965	$4,020	$85,434	$0	$0	$0
Lamar	$0	$119	$32,263	$192,993	$37,002	$313,150
Sam Houston State	$74,820	$0	$14,917	$1,687	$4,531	$21,168
Southwest Texas State	$54,702	$238,003	$298,188	$9,416	$72,567	$776,347
Sul Ross State	$48,520	$0	$121,531	$0	$0	$2,608
Sul Ross-Rio Grande	$0	$0	$0	$0	$0	$6,947
Texas Tech	$7,642,223	$20,606	$2,872,125	$2,734,588	$420,374	$783,463
Texas Woman's	$0	$10,508	$1,582,718	$15,407	$0	$9,536
The University of Texas System						
UT at Arlington	$0	$288,503	$723,289	$16,613	$13,683,718	$118,371
UT at Austin	$0	$3,890,389	$19,505,937	$4,577,271	$10,118,922	$4,221,105
UT at Brownsville	$0	$0	$5,859	$2,636	$0	$32,862
UT at Dallas	$0	$117,991	$1,694,727	$181,274	$725,649	$0
UT at El Paso	$0	$19,469	$2,814,864	$792,083	$834,879	$659,521
UT-Pan American	$13,761	$2,031	$83,927	$512,467	$37,125	$212,927
UT-Permian Basin	$0	$0	$8	$106,741	$0	$0
UT at San Antonio	$0	$90,484	$1,974,458	$241,212	$297,405	$92,857
UT at Tyler	$0	$2,739	$11,017	$1,912	$28,025	$349,906
University of Houston System						
Univ. of Houston	$0	$510,008	$3,111,208	$381,442	$2,001,613	$1,670,766
Univ. of Houston-Clear Lake	$4,709	$0	$48,944	$367,820	$1,132,009	$57,919
Univ. of Houston-Downtown	$0	$0	$0	$0	$613,121	$175,894
Univ. of Houston-Victoria	$0	$7,459	$0	$0	$990	$0
Univ. of North Texas	$116,354	$435,014	$929,907	$391,076	$477,284	$4,016,531
Totals	**$65,440,719**	**$6,237,393**	**$103,126,658**	**$12,734,546**	**$35,360,697**	**$18,602,079**

Shading indicates the five highest expenditures in each field.

Table 9 - continued

Expenditures for Research and Development by Field, FY 97
Texas Public Universities

Institution	Engineering	Environmental Sciences	Law & Public Administration	Mathematical Sciences	Medical Sciences	Physical Sciences
Midwestern State	$0	$0	$0	$0	$0	$7,966
Stephen F. Austin State	$0	$0	$19,462	$23,915	$8,612	$247,891
Texas A&M University System						
Prairie View A&M	$4,189,957	$31,809	$0	$81,826	$10,932	$1,390,110
Tarleton State	$0	$2,498,569	$0	$13,289	$0	$34,183
Texas A&M Univ. and Services	$88,845,220	$60,778,411	$18,779	$1,685,343	$4,743,702	$20,015,492
Texas A&M-Commerce	$0	$0	$0	$600	$0	$82,209
Texas A&M-Corpus Christi	$113,169	$1,130,770	$0	$51,872	$0	$11,824
Texas A&M at Galveston	$0	$2,153,933	$0	$2,712	$0	$300,017
Texas A&M International	$0	$91	$0	$1,231	$2,270	$5,156
Texas A&M-Kingsville	$1,598,478	$518,131	$0	$740	$14,755	$30,137
Texas A&M-Texarkana	$0	$0	$0	$0	$0	$0
West Texas A&M	$125,946	$3,082	$0	$4,079	$0	$101,445
Texas Southern	$306,612	$103,189	$60,627	$0	$0	$82,935
Texas State University System						
Angelo State	$0	$0	$0	$0	$13,158	$31,760
Lamar	$605,659	$1,067,643	$0	$33,337	$15,626	$153,686
Sam Houston State	$0	$4,935,354	$0	$120,460	$0	$292,297
Southwest Texas State	$8,968	$531,134	$13,211	$243,743	$487,070	$683,669
Sul Ross State	$0	$10,798	$0	$0	$0	$0
Sul Ross-Rio Grande	$0	$0	$0	$0	$0	$0
Texas Tech	$10,957,719	$580,855	$27,977	$584,485	$0	$3,942,373
Texas Woman's	$0	$0	$0	$192,997	$261,899	$69,185
The University of Texas System						
UT at Arlington	$8,568,881	$402,706	$0	$49,940	$298,187	$2,344,659
UT at Austin	$108,909,869	$26,570,420	$2,481,540	$7,240,333	$6,951,832	$51,959,211
UT at Brownsville	$0	$0	$0	$6,748	$0	$35
UT at Dallas	$930,435	$1,623,012	$0	$77,000	$747,047	$6,263,127
UT at El Paso	$4,939,818	$2,949,891	$0	$111,236	$93,543	$1,582,087
UT-Pan American	$349,728	$52,336	$3,088	$3,760	$582,843	$201,984
UT-Permian Basin	$298,073	$0	$27,298	$0	$0	$21,901
UT at San Antonio	$997,816	$48,889	$0	$142,640	$0	$228,391
UT at Tyler	$0	$50,039	$0	$0	$562	$0
University of Houston System						
Univ. of Houston	$7,859,369	$872,168	$855,545	$1,092,447	$2,131,586	$21,040,111
Univ. of Houston-Clear Lake	$1,289,234	$64,040	$0	$51,409	$0	$31,975
Univ. of Houston-Downtown	$0	$0	$0	$35,888	$34,115	$88,510
Univ. of Houston-Victoria	$0	$0	$0	$942	$0	$0
Univ. of North Texas	$680,768	$957,152	$432,165	$411,444	$114,276	$2,494,934
Totals	**$241,575,719**	**$107,934,422**	**$3,939,692**	**$12,264,416**	**$16,512,015**	**$113,739,260**

Shading indicates the five highest expenditures in each field.

Table 9 - continued

Expenditures for Research and Development by Field, FY 97
Texas Public Universities

Institution	Psychology	Social Sciences	Other Sciences	Other Non-Sciences	Total
Midwestern State	$0	$3,783	$0	$0	$42,362
Stephen F. Austin State	$32,885	$694,657	$0	$0	$4,996,332
Texas A&M University System					
Prairie View A&M	$0	$0	$0	$0	$9,858,828
Tarleton State	$0	$9,552	$0	$30,051	$2,587,483
Texas A&M Univ. and Services	$2,101,623	$14,231,950	$0	$0	$312,578,077
Texas A&M-Commerce	$1,687	$6,290	$0	$1,500	$384,638
Texas A&M-Corpus Christi	$0	$0	$29,287	$0	$1,543,154
Texas A&M at Galveston	$0	$387	$0	$0	$2,666,538
Texas A&M International	$1,000	$5,462	$0	$0	$53,575
Texas A&M-Kingsville	$0	$0	$9,991	$121,932	$6,119,017
Texas A&M-Texarkana	$0	$0	$0	$0	$0
West Texas A&M	$2,632	$9,046	$0	$0	$1,526,907
Texas Southern	$880	$78,729	$1,351	$275,303	$3,867,189
Texas State University System					
Angelo State	$33,179	$0	$0	$0	$509,516
Lamar	$5,699	$37,643	$0	$506,679	$3,001,499
Sam Houston State	$4,997	$222,188	$0	$0	$5,692,419
Southwest Texas State	$889	$407,293	$0	$16,983	$3,842,183
Sul Ross State	$0	$129,972	$0	$0	$313,429
Sul Ross-Rio Grande	$0	$0	$0	$0	$6,947
Texas Tech	$45,886	$2,367,346	$660,403	$0	$33,640,423
Texas Woman's	$3,467	$21,079	$141,238	$0	$2,308,034
The University of Texas System					
UT at Arlington	$12,955	$2,011,755	$0	$0	$28,519,577
UT at Austin	$2,665,066	$5,011,338	$463,494	$3,521,610	$258,088,337
UT at Brownsville	$0	$5,303	$0	$0	$53,443
UT at Dallas	$994,465	$1,653,751	$0	$0	$15,008,478
UT at El Paso	$762,691	$1,754,994	$0	$0	$17,315,076
UT-Pan American	$0	$54,597	$0	$0	$2,110,574
UT-Permian Basin	$0	$0	$0	$0	$454,021
UT at San Antonio	$0	$1,872,730	$0	$0	$5,986,882
UT at Tyler	$4,065	$0	$0	$0	$448,265
University of Houston System					
Univ. of Houston	$2,309,284	$452,299	$277,883	$24,097	$44,589,826
Univ. of Houston-Clear Lake	$0	$108,300	$0	$0	$3,156,359
Univ. of Houston-Downtown	$0	$0	$42,353	$0	$989,881
Univ. of Houston-Victoria	$2,074	$0	$0	$2,000	$13,465
Univ. of North Texas	$861,876	$1,017,629	$0	$0	$13,336,410
Totals	**$9,847,300**	**$32,168,073**	**$1,626,000**	**$4,500,155**	**$785,609,144**

Shading indicates the five highest expenditures in each field.

Table 10

Expenditures for Research and Development by Areas of Special Interest, FY 97
Texas Public Universities

Institution	Aerospace Technology	AIDS Research	Biotechnology	Cancer Research	Energy	Environmental Science & Engineering
Midwestern State	$0	$0	$0	$0	$0	$0
Stephen F. Austin State	$0	$0	$199,820	$0	$0	$2,887,753
Texas A&M University System						
Prairie View A&M	$368,026	$0	$389,840	$0	$783,934	$172,454
Tarleton State	$0	$0	$0	$0	$0	$2,451,416
Texas A&M Univ. and Services	$2,714,335	$94,225	$47,506,723	$1,032,095	$5,511,383	$11,015,620
Texas A&M-Commerce	$0	$0	$0	$0	$0	$0
Texas A&M-Corpus Christi	$0	$0	$0	$0	$0	$1,243,939
Texas A&M at Galveston	$0	$0	$64,585	$0	$0	$687,262
Texas A&M International	$0	$0	$0	$0	$0	$0
Texas A&M-Kingsville	$67,675	$0	$8,118	$0	$541,122	$560,032
Texas A&M-Texarkana	$0	$0	$0	$0	$0	$0
West Texas A&M	$0	$0	$0	$0	$183,208	$62,345
Texas Southern	$0	$309,498	$0	$0	$0	$103,189
Texas State University System						
Angelo State	$0	$0	$10,728	$0	$0	$0
Lamar	$76,157	$0	$0	$0	$7,985	$2,187,134
Sam Houston State	$0	$0	$0	$0	$37,889	$4,946,808
Southwest Texas State	$0	$37,833	$104,778	$58,825	$0	$558,939
Sul Ross State	$0	$0	$0	$0	$0	$0
Sul Ross-Rio Grande	$0	$0	$0	$0	$0	$0
Texas Tech	$718,833	$11,242	$2,349,735	$161,998	$3,865,698	$5,643,420
Texas Woman's	$0	$0	$0	$0	$0	$0
The University of Texas System						
UT at Arlington	$1,137,927	$1,000	$139,018	$177,685	$2,403,098	$402,706
UT at Austin	$20,003,972	$720,887	$2,122,043	$2,269,101	$25,855,953	$3,907,568
UT at Brownsville	$0	$0	$0	$0	$0	$0
UT at Dallas	$3,228,405	$0	$852,300	$0	$548,769	$983,452
UT at El Paso	$1,361,712	$0	$0	$6,435	$395,628	$6,580,737
UT-Pan American	$0	$0	$0	$100,085	$0	$0
UT-Permian Basin	$0	$0	$8	$0	$294,077	$0
UT at San Antonio	$268,849	$0	$0	$0	$0	$48,482
UT at Tyler	$0	$0	$0	$0	$0	$50,039
University of Houston System						
Univ. of Houston	$4,696,320	$433,851	$1,505,187	$721,942	$8,757,681	$3,793,462
Univ. of Houston-Clear Lake	$2,361,864	$0	$48,556	$0	$0	$64,040
Univ. of Houston-Downtown	$242,372	$0	$34,115	$0	$0	$0
Univ. of Houston-Victoria	$0	$0	$0	$0	$0	$0
Univ. of North Texas	$78,875	$153,198	$160,502	$21,019	$325,901	$432,832
Totals	**$37,325,322**	**$1,761,734**	**$55,496,056**	**$4,549,185**	**$49,512,326**	**$48,783,629**

Shading indicates the five highest expenditures in each field.

Table 10 - continued

Expenditures for Research and Development by Areas of Special Interest, FY 97
Texas Public Universities

Institution	Food, Fiber, & Agricultural Products	Manufacturing Technology	Materials Science & Engineering	Microelectronics & Computer Technology	Water Resources	Total
Midwestern State	$0	$0	$0	$0	$0	$0
Stephen F. Austin State	$2,224,733	$0	$0	$0	$217,747	$5,530,053
Texas A&M University System						
Prairie View A&M	$3,393,160	$0	$216,652	$0	$0	$5,324,066
Tarleton State	$0	$0	$0	$0	$0	$2,451,416
Texas A&M Univ. and Services	$35,376,443	$1,293,963	$4,274,242	$4,494,869	$1,724,507	$115,038,405
Texas A&M-Commerce	$0	$0	$0	$0	$0	$0
Texas A&M-Corpus Christi	$0	$0	$0	$4,102	$0	$1,248,041
Texas A&M at Galveston	$0	$0	$1,298	$1,751	$0	$754,896
Texas A&M International	$0	$0	$0	$0	$0	$0
Texas A&M-Kingsville	$1,272,580	$0	$0	$25,032	$14,236	$2,488,795
Texas A&M-Texarkana	$0	$0	$0	$0	$0	$0
West Texas A&M	$1,086,219	$0	$28,767	$0	$0	$1,360,539
Texas Southern	$1,351	$0	$0	$0	$0	$414,038
Texas State University System						
Angelo State	$341,965	$0	$0	$0	$0	$352,693
Lamar	$0	$44,620	$255,170	$204	$0	$2,571,270
Sam Houston State	$65,688	$0	$1,697	$4,531	$0	$5,056,613
Southwest Texas State	$0	$93,854	$487,244	$0	$0	$1,341,473
Sul Ross State	$0	$0	$0	$0	$0	$0
Sul Ross-Rio Grande	$0	$0	$0	$0	$0	$0
Texas Tech	$8,087,236	$1,675,341	$2,384,825	$2,259,560	$1,128,465	$28,286,353
Texas Woman's	$322,112	$0	$0	$0	$0	$322,112
The University of Texas System						
UT at Arlington	$0	$3,863,424	$2,409,702	$13,683,718	$0	$24,218,278
UT at Austin	$938,679	$8,916,823	$6,884,144	$17,646,410	$1,917,640	$91,183,220
UT at Brownsville	$0	$0	$0	$0	$0	$0
UT at Dallas	$0	$0	$1,992,378	$995,765	$0	$8,601,069
UT at El Paso	$0	$774,196	$3,858,147	$2,187,816	$205,759	$15,370,430
UT-Pan American	$0	$349,728	$0	$37,125	$0	$486,938
UT-Permian Basin	$0	$0	$0	$0	$0	$294,085
UT at San Antonio	$0	$0	$470,501	$297,405	$48,889	$1,134,126
UT at Tyler	$0	$0	$0	$28,587	$0	$78,626
University of Houston System						
Univ. of Houston	$64,017	$1,986,799	$10,046,723	$4,163,789	$141,156	$36,310,927
Univ. of Houston-Clear Lake	$37,588	$0	$5,627	$53,644	$912	$2,572,231
Univ. of Houston-Downtown	$0	$182,357	$29,214	$87,262	$0	$575,320
Univ. of Houston-Victoria	$0	$0	$0	$0	$0	$0
Univ. of North Texas	$153,769	$168,372	$1,072,014	$923,149	$868,775	$4,358,406
Totals	**$53,365,540**	**$19,349,477**	**$34,418,345**	**$46,894,719**	**$6,268,086**	**$357,724,419**

Shading indicates the five highest expenditures in each field.

INSTITUTIONAL DATA – HEALTH-RELATED INSTITUTIONS

This section of the report contains detailed information on research expenditures reported by individual institutions. Statements related to data quality and applicability found on page 2 of this report also apply to the data shown in this section of the report.

Figure 6

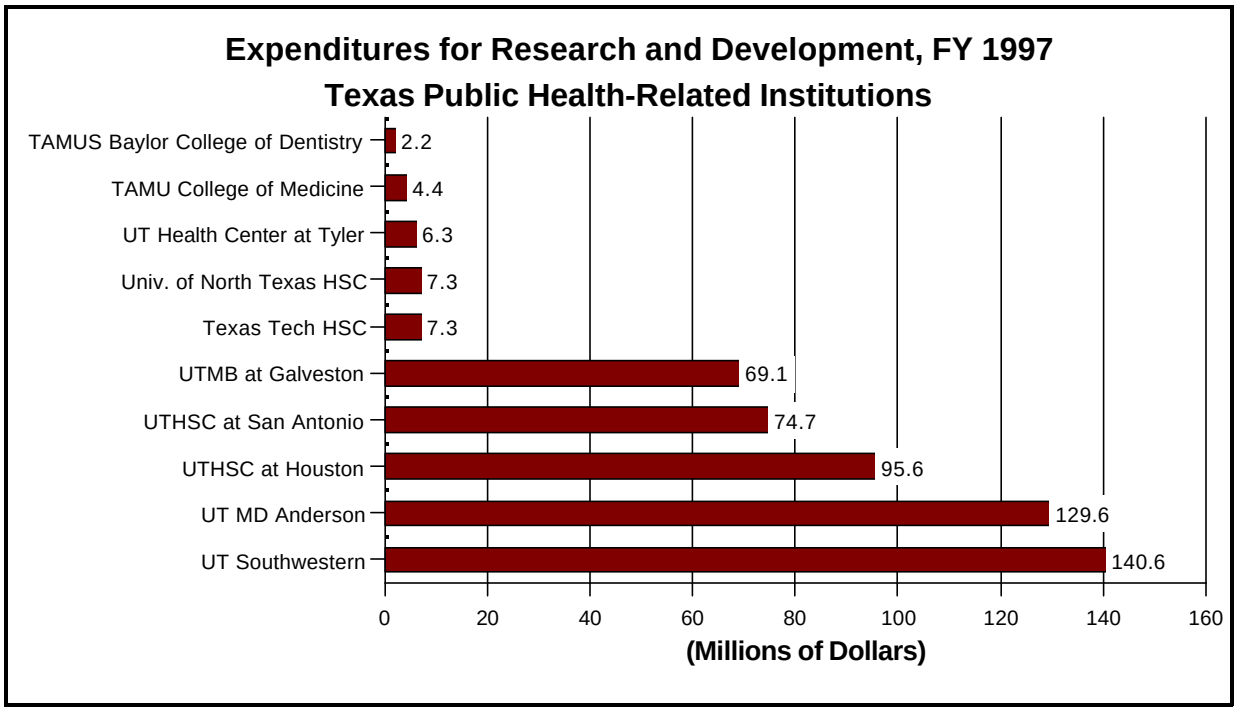


Table 11

Total Expenditures for Sponsored Programs by Source of Funds, FY 97
Texas Public Health-Related Institutions

Institution	Federal		State		Institution	
	R&D	Other	R&D	Other	R&D	Other
TAMU College of Medicine	$3,787,196	$0	$0	$0	$101,118	$0
TAMUS Baylor College of Dentistry	$841,584	$145,157	$218,190	$141,039	$608,448	$0
Texas Tech University HSC	$2,916,655	$612,821	$1,938,593	$1,222,052	$567,646	$0
University of North Texas HSC	$5,272,622	$0	$317,615	$0	$367,102	$0
UT M.D. Anderson Cancer Center	$49,701,904	$0	$47,937,275	$0	$11,695,093	$0
UTMB at Galveston	$42,006,133	$17,111,856	$10,800,322	$0	$756,462	$0
UTHSC at Houston	$67,205,688	$0	$5,779,575	$0	$793,430	$0
UT Health Center at Tyler	$1,215,622	$0	$1,661,974	$0	$2,704,512	$0
UTHSC at San Antonio	$53,477,559	$9,272,670	$7,130,561	$21,919,283	$102,984	$0
UT Southwestern Medical Center	$89,357,005	$9,392,214	$6,978,099	$12,115,966	$1,002,635	$0
Totals	**$315,781,968**	**$36,534,718**	**$82,762,204**	**$35,398,340**	**$18,699,430**	**$0**

Shading indicates the five highest expenditures in each field.

Table 11 - continued

Total Expenditures for Sponsored Programs by Source of Funds, FY 97
Texas Public Health-Related Institutions

Institution	Private		Total		
	R&D	Other	R&D	Other	Total
TAMU College of Medicine	$484,281	$0	$4,372,595	$0	$4,372,595
TAMUS Baylor College of Dentistry	$577,700	$854,798	$2,245,922	$1,140,994	$3,386,916
Texas Tech University HSC	$1,870,484	$260,517	$7,293,378	$2,095,390	$9,388,768
University of North Texas HSC	$1,300,092	$0	$7,257,431	$0	$7,257,431
UT M.D. Anderson Cancer Center	$20,243,989	$0	$129,578,261	$0	$129,578,261
UTMB at Galveston	$15,540,014	$0	$69,102,931	$17,111,856	$86,214,787
UTHSC at Houston	$21,859,946	$0	$95,638,639	$0	$95,638,639
UT Health Center at Tyler	$700,344	$0	$6,282,452	$0	$6,282,452
UTHSC at San Antonio	$13,984,572	$6,525,985	$74,695,676	$37,717,938	$112,413,614
UT Southwestern Medical Center	$43,251,620	$17,137,933	$140,589,359	$38,646,113	$179,235,472
Totals	**$119,813,042**	**$24,779,233**	**$537,056,644**	**$96,712,291**	**$633,768,935**

Shading indicates the five highest expenditures in each field.

Table 12

Expenditures for Research and Development by Field, FY 97
Texas Public Health-Related Institutions

Institution	Arts & Humanities	Biological & Other Life Sciences	Education	Engineering
TAMU College of Medicine	$0	$0	$0	$0
TAMUS Baylor College of Dentistry	$0	$0	$0	$0
Texas Tech University HSC	$0	$2,447,116	$0	$0
University of North Texas HSC	$0	$0	$218,204	$0
UT M.D. Anderson Cancer Center	$0	$54,206,462	$0	$0
UTMB at Galveston	$16,466	$0	$0	$1,066,054
UTHSC at Houston	$0	$15,940,589	$0	$0
UT Health Center at Tyler	$0	$0	$0	$0
UTHSC at San Antonio	$0	$0	$0	$0
UT Southwestern Medical Center	$0	$180,318	$0	$0
Totals	**$16,466**	**$72,774,485**	**$218,204**	**$1,066,054**

Table 12 - continued

Expenditures for Research and Development by Field, FY 97
Texas Public Health-Related Institutions

Institution	Mathematical Sciences	Medical Sciences	Physical Sciences	Total
TAMU College of Medicine	$0	$4,372,595	$0	$4,372,595
TAMUS Baylor College of Dentistry	$0	$2,245,922	$0	$2,245,922
Texas Tech University HSC	$0	$4,846,262	$0	$7,293,378
University of North Texas HSC	$0	$7,039,227	$0	$7,257,431
UT M.D. Anderson Cancer Center	$2,733,385	$70,243,690	$2,394,724	$129,578,261
UTMB at Galveston	$0	$68,020,411	$0	$69,102,931
UTHSC at Houston	$0	$79,698,050	$0	$95,638,639
UT Health Center at Tyler	$0	$6,282,452	$0	$6,282,452
UTHSC at San Antonio	$0	$74,695,676	$0	$74,695,676
UT Southwestern Medical Center	$0	$140,409,041	$0	$140,589,359
Totals	**$2,733,385**	**$457,853,326**	**$2,394,724**	**$537,056,644**

Shading indicates the five highest expenditures in each field.

Table 13

Total Expenditures for Research and Development by Area of Special Interest, FY 97
Texas Public Health-Related Institutions

Institution	AIDS Research	Biotechnology	Cancer Research	Environ Science & Engineering
TAMU College of Medicine	$0	$138,232	$15,355	$0
TAMUS Baylor College of Dentistry	$1,481	$0	$137,231	$0
Texas Tech University HSC	$132,837	$0	$479,377	$0
University of North Texas HSC	$0	$1,736,542	$13,828	$0
UT M.D. Anderson Cancer Center	$71,481	$0	$129,506,780	$0
UTMB at Galveston	$5,925,698	$9,192,013	$7,561,011	$0
UTHSC at Houston	$1,677,182	$407,737	$4,682,890	$0
UT Health Center at Tyler	$0	$0	$66,928	$23,463
UTHSC at San Antonio	$6,519,489	$37,095,868	$16,334,057	$79,812
UT Southwestern Medical Center	$1,980,868	$0	$13,913,942	$0
Totals	**$16,309,036**	**$48,570,392**	**$172,711,399**	**$103,275**

Shading indicates the five highest expenditures in each field.

Table 13 - continued

Total Expenditures for Research and Development by Area of Special Interest, FY 97
Texas Public Health-Related Institutions

Institution	Manufacturing Technology	Materials Science and Engineering	Total
TAMU College of Medicine	$0	$0	$153,587
TAMUS Baylor College of Dentistry	$0	$169,184	$307,896
Texas Tech University HSC	$0	$0	$612,214
University of North Texas HSC	$0	$0	$1,750,370
UT M.D. Anderson Cancer Center	$0	$0	$129,578,261
UTMB at Galveston	$0	$0	$22,678,722
UTHSC at Houston	$0	$0	$6,767,809
UT Health Center at Tyler	$0	$0	$90,391
UTHSC at San Antonio	$100,753	$14,565,699	$74,695,678
UT Southwestern Medical Center	$0	$0	$15,894,810
Totals	**$100,753**	**$14,734,883**	**$252,529,738**

Shading indicates the five highest expenditures in each field.

HISTORICAL DATA

Much of the data in this report will not allow accurate comparisons with data contained in reports prior to 1990. At that time, many individual data items were more rigorously defined.

Total research expenditures is the statistic allowing the most accurate long-term comparison. However, because a more precise and more conservative definition of research activity has been adopted, research expenditures for Fiscal Years 1990 through 1997 are probably understated compared to expenditures reported in previous years. Figure 7 graphs total research and development expenditures since 1981.

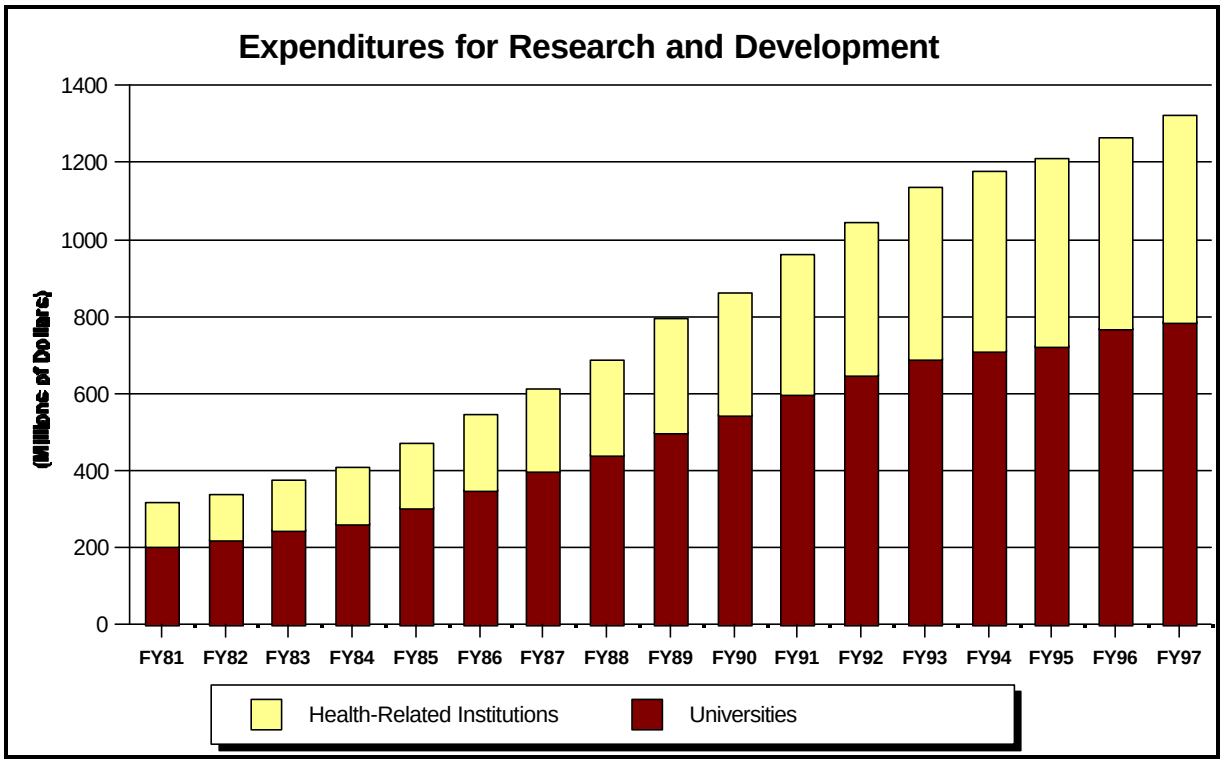
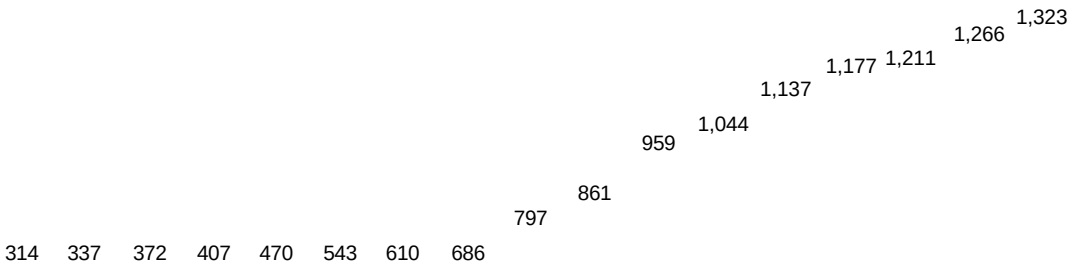


Figure 7



Thirteen institutions reported $17,956,120 in income from research-related intellectual property for a 1.3 percent increase over the $17,729,843 earned in Fiscal Year 1996. There has been a 106 percent increase since 1994. Table 14 shows the income received at each institution and the number of intellectual properties producing income.

Table 14

Intellectual Property Income
Texas Public Universities and Health-Related Institutions

Institution	1994		1995		1996		1997	
	Income	Number of Properties*	Income	Number of Properties*	Income	Number of Properties*	Income	Number of Properties*
Texas A&M and Services	$1,580,939	60	$2,011,437	71	$3,022,753	80	$4,010,887	113
Texas Tech University	$92,694	4	$8,942	2	$89,875	5	$118,847	5
UT at Arlington	$14,077	1	$23,668	2	$26,644	3	$50,962	2
UT at Austin	$994,250	130	$930,062	150	$1,882,793	150	$2,112,342	237
UT at Dallas	$120,022	17	$161,683	9	$340,085	8	$123,710	11
UT at El Paso	$0	0	$0	0	$9,560	0	$5,044	1
UT at San Antonio	$4,654	1	$8,631	2	$0	0	$0	0
University of Houston	$78,488	5	$44,684	4	$75,385	6	$75,409	18
Stephen F. Austin State	$0	0	$145,444	1	$0	1	$0	0
Subtotals	**$2,885,124**	**218**	**$3,334,551**	**241**	**$5,447,095**	**253**	**$6,497,201**	**387**
Texas Tech Univ. HSC	$1,800	1	$2,425	1	$1,010	1	$630	1
UT M.D. Anderson	$2,293,821	55	$3,265,375	88	$6,591,326	88	$4,820,000	119
UTMB at Galveston	$101,125	10	$44,431	9	$207,694	9	$180,832	15
UTHSC at Houston	$510,106	8	$286,586	8	$707,707	11	$311,703	10
UTHSC at San Antonio	$249,892	16	$738,002	21	$1,910,527	12	$2,843,988	17
UT Southwestern Med.	$2,669,473	56	$2,984,993	107	$2,864,484	105	$3,301,766	142
Subtotals	**$5,826,217**	**146**	**$7,321,812**	**234**	**$12,282,748**	**226**	**$11,458,919**	**304**
Totals	**$8,711,341**	**364**	**$10,656,363**	**475**	**$17,729,843**	**479**	**$17,956,120.**	**691**

*Number of intellectual properties (patents, copyrights, and licensing agreements) producing income.

Table 15 on the following page shows total research and development expenditures at Texas public universities over the past four years. Table 16 shows federal research and development expenditures and the ratio of state-to-federal research and development expenditures over the past four years. Tables 17 and 18 show similar data for health-related institutions.

Table 15

Expenditures for Research and Development
Texas Public Universities

Institution	1994	1995	1996	1997	Percent Change *
Midwestern State	$74,320	$96,688	$61,773	$42,362	-43.00%
Stephen F. Austin State	$3,401,323	$3,806,756	$4,164,473	$4,996,332	46.89%
Texas A&M University System					
Prairie View A&M	$8,334,573	$7,847,915	$10,969,332	$9,858,828	18.29%
Tarleton State	$2,384,563	$2,105,579	$2,480,705	$2,587,483	8.51%
Texas A&M Univ. and Services	$297,913,831	$306,264,926	$315,797,309	$312,578,077	4.92%
Texas A&M-Commerce	$295,916	$520,564	$398,360	$384,638	29.98%
Texas A&M-Corpus Christi	$2,257,829	$2,474,623	$1,555,205	$1,543,154	-31.65%
Texas A&M at Galveston	$4,319,863	$2,705,002	$2,197,815	$2,666,538	-38.27%
Texas A&M International	$582,465	$134,897	$188,267	$53,575	-90.80%
Texas A&M-Kingsville	$4,289,014	$4,955,228	$5,863,953	$6,119,017	42.67%
Texas A&M-Texarkana	$0	$0	$0	$0	NA
West Texas A&M	$293,946	$1,158,536	$1,235,377	$1,526,907	419.45%
Texas Southern	$2,611,800	$4,274,640	$3,820,649	$3,867,189	48.07%
Texas State University System					
Angelo State	$371,952	$361,352	$516,954	$509,516	36.98%
Lamar	$4,912,179	$3,366,485	$3,221,513	$3,001,499	-38.90%
Sam Houston State	$2,423,135	$5,020,117	$5,338,509	$5,692,419	134.92%
Southwest Texas State	$6,601,925	$4,759,723	$5,819,715	$3,842,183	-41.80%
Sul Ross State	$160,053	$189,984	$316,382	$313,429	95.83%
Sul Ross-Rio Grande	$0	$0	$1,010	$6,947	NA
Texas Tech	$25,652,905	$26,819,497	$29,684,845	$33,640,423	31.14%
Texas Woman's	$1,538,566	$1,815,351	$1,878,040	$2,308,034	50.01%
The University of Texas System					
UT at Arlington	$13,189,552	$15,963,093	$25,258,379	$28,519,577	116.23%
UT at Austin	$234,731,250	$228,580,592	$241,481,290	$258,088,337	9.95%
UT at Brownsville	$61,083	$67,032	$61,569	$53,443	-12.51%
UT at Dallas	$15,245,400	$14,667,253	$14,106,648	$15,008,478	-1.55%
UT at El Paso	$12,930,966	$13,237,765	$13,717,203	$17,315,076	33.90%
UT-Pan American	$1,371,231	$1,884,826	$2,071,412	$2,110,574	53.92%
UT-Permian Basin	$771,935	$616,261	$479,526	$454,021	-41.18%
UT at San Antonio	$4,387,935	$4,693,580	$5,892,443	$5,986,882	36.44%
UT at Tyler	$544,090	$590,466	$395,669	$448,265	-17.61%
University of Houston System					
Univ. of Houston	$40,969,653	$43,691,633	$48,678,533	$44,589,826	8.84%
Univ. of Houston-Clear Lake	$6,437,442	$4,777,424	$3,280,804	$3,156,359	-50.97%
Univ. of Houston-Downtown	$401,020	$305,260	$990,275	$989,881	146.84%
Univ. of Houston-Victoria	$1,790	$41,206	$20,561	$13,465	652.23%
Univ. of North Texas	$13,059,140	$15,191,332	$16,535,145	$13,336,410	2.12%
Totals	**$712,522,645**	**$722,985,586**	**$768,479,643**	**$785,609,144**	**10.26%**

* Percent change relative to 1994; NA indicates “not applicable”.

Table 16

Expenditures for Research and Development
Texas Public Universities

Institution	1994		1995		1996		1997	
	Federal R&D Dollars	Fed/ State Ratio*	Federal R&D Dollars	Fed/ State Ratio*	Federal R&D Dollars	Fed/ State Ratio*	Federal R&D Dollars	Fed/ State Ratio*
Midwestern State	$20,504	1.63	$52,974	7.61	$18,257	1.84	$5,624	0.44
Stephen F. Austin State	$453,126	0.21	$998,186	0.54	$1,687,020	4.27	$2,288,456	32.29
Texas A&M University System								
Prairie View A&M	$5,976,220	4.52	$6,527,551	8.77	$10,657,992	56.23	$9,428,834	65.61
Tarleton State	$545,785	0.30	$655,999	0.46	$831,562	0.55	$1,070,161	0.73
Texas A&M Univ. and Services	$130,897,171	1.55	$132,667,790	1.60	$146,969,502	1.72	$141,960,304	1.66
Texas A&M-Commerce	$38,945	0.76	$104,996	0.92	$146,344	1.39	$114,325	1.49
Texas A&M-Corpus Christi	$209,608	0.19	$1,246,432	1.49	$696,546	6.51	$826,440	2.33
Texas A&M at Galveston	$3,667,764	23.10	$1,908,463	14.76	$803,982	1.35	$1,347,941	2.84
Texas A&M International	$12,166	0.02	$69,810	NA	$163,822	6.70	$5,520	0.26
Texas A&M-Kingsville	$1,283,395	0.67	$1,420,104	0.60	$1,808,578	0.70	$1,602,996	0.57
Texas A&M-Texarkana	$0	NA	$0	NA	$0	NA	$0	NA
West Texas A&M	$155,851	1.64	$144,435	0.16	$100,083	0.10	$72,145	0.05
Texas Southern	$2,352,848	17.05	$3,508,695	6.90	$3,473,776	11.80	$3,707,347	75.67
Texas State University System								
Angelo State	$630	0.00	$566	0.00	$961	0.00	$1,864	0.00
Lamar	$3,087,058	1.84	$2,621,487	4.46	$2,091,222	2.18	$1,758,158	1.56
Sam Houston State	$1,696,562	5.29	$4,204,050	9.44	$4,497,667	8.63	$4,974,014	9.72
Southwest Texas State	$4,152,516	4.08	$2,536,875	2.21	$2,385,620	1.28	$1,448,596	1.11
Sul Ross State	$8,555	0.08	$21,349	0.26	$137,304	1.23	$147,979	1.30
Sul Ross-Rio Grande					$0	0.00	$0	0.00
Texas Tech	$9,133,751	0.98	$9,361,042	0.98	$11,354,803	1.10	$13,383,042	1.07
Texas Woman's	$714,259	1.35	$906,899	1.61	$1,038,389	1.77	$1,326,470	2.01
The University of Texas System								
UT at Arlington	$4,941,723	1.03	$6,968,432	1.21	$14,975,514	2.14	$21,083,328	4.55
UT at Austin	$149,983,058	4.85	$143,938,361	4.33	$147,807,148	4.33	$157,336,911	4.23
UT at Brownsville	$0	NA	$314	0.00	$0	0.00	$0	0.00
UT at Dallas	$6,547,037	4.23	$5,370,589	4.71	$5,263,990	3.74	$6,371,163	4.02
UT at El Paso	$9,256,647	3.14	$9,814,970	15.30	$10,471,945	6.60	$13,855,019	6.98
UT-Pan American	$952,673	2.63	$1,170,033	1.88	$1,235,793	1.60	$1,029,730	1.08
UT-Permian Basin	$189,235	0.73	$496,848	13.77	$335,908	4.38	$307,224	2.70
UT at San Antonio	$2,797,050	4.68	$3,110,214	4.80	$4,147,788	3.87	$4,229,496	3.64
UT at Tyler	$1,014	0.01	$5,582	0.01	$4,426	0.01	$285,812	2.59
University of Houston System								
Univ. of Houston	$23,480,886	2.04	$23,712,932	1.72	$26,482,227	1.74	$22,838,362	1.59
Univ. of Houston-Clear Lake	$6,092,912	44.30	$4,517,530	56.32	$3,009,120	35.37	$3,023,031	55.12
Univ. of Houston-Downtown	$388,270	NA	$291,469	NA	$947,282	NA	$900,094	NA
Univ. of Houston-Victoria	$0	0.00	$28,220	7.65	$0	0.00	$942	0.08
Univ. of North Texas	$3,086,752	0.80	$5,076,850	1.17	$5,774,282	1.26	$5,521,724	2.12
Totals	**$372,123,971**	**2.27**	**$373,459,047**	**2.26**	**$409,318,853**	**2.41**	**$422,253,052**	**2.43**

*NA indicates “not applicable” (no state research and development funds expended).

Table 17

Expenditures for Research and Development
Texas Public Health-Related Institutions

Institution	1994	1995	1996	1997	Percent Change*
TAMU College of Medicine	$3,670,468	$5,156,574	$5,364,169	$4,372,595	19.13%
TAMUS Baylor College of Dentistry	$0	$0	$0	$2,245,922	NA
Texas Tech University HSC	$7,293,335	$8,610,815	$7,529,539	$7,293,378	0.00%
University North Texas HSC	$5,475,374	$5,381,475	$6,498,831	$7,257,431	32.55%
UT M.D. Anderson Cancer Center	$122,357,296	$122,180,937	$120,963,970	$129,578,261	5.90%
UTMB at Galveston	$62,304,763	$64,176,482	$65,389,518	$69,102,931	10.91%
UTHSC at Houston	$66,431,837	$74,664,885	$82,803,494	$95,638,639	43.97%
UT Health Center at Tyler	$6,276,576	$6,408,456	$6,757,577	$6,282,452	0.09%
UTHSC at San Antonio	$71,821,266	$76,163,093	$71,837,194	$74,695,676	4.00%
UT Southwestern Medical Center	$118,397,601	$125,300,683	$130,162,124	$140,589,359	18.74%
Totals	**$464,028,516**	**$488,043,400**	**$497,306,416**	**$537,056,644**	**15.74%**

* Percent change relative to 1994; NA indicates “not applicable”.

Table 18

Expenditures for Research and Development
Texas Public Health-Related Institutions

Institution	1994		1995		1996		1997	
	Federal R&D Dollars	Fed/ State Ratio*	Federal R&D Dollars	Fed/ State Ratio*	Federal R&D Dollars	Fed/ State Ratio*	Federal R&D Dollars	Fed/ State Ratio*
TAMU College of Medicine	$2,659,408	4.35	$3,697,983	7.32	$4,150,998	19.73	$3,787,196	NA
TAMUS Baylor College of Dentistry	$0	NA	$0	NA	$0	NA	$841,584	3.86
Texas Tech University HSC	$3,231,757	1.64	$3,421,489	1.33	$3,024,593	1.39	$2,916,655	1.50
University North Texas HSC	$4,045,159	20.62	$3,985,354	16.88	$4,846,555	18.89	$5,272,622	16.60
UT M.D. Anderson Cancer Center	$42,416,192	0.80	$44,711,435	0.90	$42,793,595	0.90	$49,701,904	1.04
UTMB at Galveston	$32,774,744	3.74	$33,204,135	3.39	$38,322,819	3.36	$42,006,133	3.89
UTHSC at Houston	$46,821,174	9.15	$54,761,992	11.14	$61,455,947	14.27	$67,205,688	11.63
UT Health Center at Tyler	$1,379,879	0.68	$1,238,273	0.61	$1,155,693	0.57	$1,215,622	0.73
UTHSC at San Antonio	$51,671,846	6.25	$54,432,734	6.36	$51,203,151	7.71	$53,477,559	7.50
UT Southwestern Medical Center	$71,468,358	10.61	$78,891,948	11.54	$81,467,992	11.31	$89,357,005	12.81
Totals	**$256,468,517**	**2.96**	**$278,345,343**	**3.26**	**$288,421,343**	**3.52**	**$315,781,968**	**3.82**

*NA indicates “not applicable” (no state research and development funds expended).

Table 19

Federal Expenditures for Research and Development by Field
Texas Public Universities and Health-Related Institutions

Field	1997	1996	One-Year Change	1992	Five-Year Change
Agricultural Sciences	$20,630,540	$24,038,069	-14.18%	$14,938,411	38.10%
Arts and Humanities	$730,675	$1,526,759	-52.14%	$634,967	15.07%
Biological and Other Life Sciences	$79,759,210	$72,602,301	9.86%	$77,208,868	3.30%
Business Administration	$4,113,765	$6,786,388	-39.38%	$4,462,302	-7.81%
Computer Science	$27,554,738	$21,617,057	27.47%	$9,485,211	190.50%
Education	$9,757,335	$11,893,683	-17.96%	$3,425,757	184.82%
Engineering	$131,395,899	$118,399,087	10.98%	$87,491,093	50.18%
Environmental Sciences	$74,162,768	$76,150,760	-2.61%	$66,231,034	11.98%
Law and Public Administration	$1,064,778	$1,007,692	5.67%	$192,264	453.81%
Mathematical Sciences	$8,000,494	$5,341,552	49.78%	$4,602,447	73.83%
Medical Sciences	$286,617,195	$262,899,285	9.02%	$174,843,497	63.93%
Other Non-Science Activities	$1,393,688	$1,288,247	8.18%	$407,107	242.34%
Other Sciences	$857,987	$166,458	415.44%	$209,355	309.82%
Physical Sciences	$71,488,813	$74,713,237	-4.32%	$78,464,468	-8.89%
Psychology	$7,223,920	$6,543,472	10.40%	$5,664,039	27.54%
Social Sciences	$13,283,215	$12,766,149	4.05%	$6,534,721	103.27%
Totals	**$738,035,020**	**$697,740,196**	**5.78%**	**$534,795,541**	**38.00%**

APPENDIX A – RESEARCH EXPENDITURE SURVEY

The survey form is not available electronically.

APPENDIX B

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This and previous editions of *Expenditures for Research and Other Sponsored Projects* (formerly titled *Research Expenditures*) are available from the Texas Higher Education Coordinating Board, Finance, Campus Planning, and Research Division, P.O. Box 12788, Austin, Texas 78711-2788, Phone: 512/483-6150.

Related information is also available on our website:

Texas Higher Education Coordinating Board:

http://www.thecb.state.tx.us

Research Office in Finance, Campus Planning, and Research Division:

http://www.thecb.state.tx.us/divisions/research/research.htm

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