RESEARCH EXPENDITURES

September 1, 1995 - August 31, 1996

Texas Public Universities and
Health-Related Institutions

Texas Higher Education Coordinating Board
Division of Research, Planning and Finance
P.O. Box 12788
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March 1997

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 efficiently administer assigned statewide programs, and to advance 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.

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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 1996 -- September 1, 1995, through August 31, 1996. Highlights include:

- Total research expenditures increased 4.5 percent over fiscal year 1995. Research expenditures in fiscal year 1996 were $1,265,786,060. In fiscal year 1995, the total was $1,211,028,986.

- Royalties, licensing fees, or other transactions involving intellectual property produced through research generated of $17,729,843 -- a 66 percent increase over the $10,656,363 received in fiscal year 1995.

- The federal government provided 55.3 percent of the research funds expended and continues to be the largest source of research funds.

- Research expenditures in some areas of special interest include the following: Cancer -- $171,996,438; Biotechnology -- $64,066,205; Energy -- $61,032,372; Food, Fiber, and Agricultural Products -- $53,773,279; Environmental Science and Engineering -- $49,894,336.

- The top 10 research institutions together account for more than 89 percent of all research expenditures in the state. The top five account for 70.5 percent.

OVERVIEW

The Texas Higher Education Coordinating Board's annual research expenditures report summarizes data submitted to the Board under Section 61.051(h) of the Texas Higher Education Code, which includes this statement:

> "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 research 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 data provided by the institutions through the Annual Financial Reports provided by each institution. Institutions are asked to ensure that the data reported under this provision 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 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. Much research funding is the result of a combination of peer review and negotiation with sponsors rather than one or the other. Many research projects include some basic and some applied research and many are multi-disciplinary with implications for many different areas.

This and previous editions of *Research Expenditures* are available from the Texas Higher Education Coordinating Board, Research, Planning and Finance Division, P.O. Box 12788, Austin, Texas 78711-2788, Phone: 512/483-6150, Internet: http://www.thecb.state.tx.us.

This report marks the 30th edition in the series.

MAJOR FINDINGS

Total research expenditures at Texas public institutions of higher education increased by 4.5 percent during fiscal year 1996, continuing a long-term growth trend. Expenditures increased by 6.3 percent at public universities and by 1.9 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 70.5 percent of total research expenditures. The top 10 institutions accounted for more than 89 percent of the total.

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

Table 1

Institution	**FY 1993 Rank**	**FY 1994 Rank**	**FY 1995 Rank**	**FY 1996 Rank**
Texas A&M University (Including Texas A&M Services)	1	1	1	1
University of Texas at Austin	2	2	2	2
University of Texas Southwestern Medical Center	4	4	3	3
University of Texas M.D. Anderson Cancer Center	3	3	4	4
University of Texas Health Science Center at Houston	6	6	6	5
University of Texas Health Science Center at San Antonio	5	5	5	6
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
University of Texas at Arlington	12	11	10	10

The federal government funded 55.3 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 Foundation publication *Science & Engineering Indicators - 1993* reported 55 percent of research was funded by the federal government in 1993. State government in Texas provided 20 percent of all research expenditures in the state's public higher education institutions Institutional and private funding accounted for the remaining 25 percent.

[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.

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

Institution	Total Expenditures Rank	Ratio Federal/State Expenditures	Ratio Rank
University of Texas Health Science Center at Houston	5	14.27	1
University of Texas Southwestern Medical Center	3	11.31	2
University of Texas Health Science Center at San Antonio	6	7.71	3
University of Texas at Austin	2	4.33	4
University of Texas Medical Branch at Galveston	7	3.36	5
University of Texas at Arlington	10	2.14	6
University of Houston	8	1.74	7
Texas A&M University (Including Texas A&M Services)	1	1.72	8
Texas Tech University	9	1.10	9
University of Texas M.D. Anderson Cancer Center	4	0.90	10

Medical sciences, accounting for 34.4 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 83.6 percent of all reported research expenditures.

Despite pressures to move into more applied research, support of basic research totaled 75 percent of research expenditures. However, the definition of applied research varied greatly between institutions. Some institutions consider all university research to be basic research.

Institutions reported that 57.7 percent of their research expenditures resulted from competitive peer-review selection processes.

Institutions earned $17,729,843 from royalties, licenses, and other transactions involving intellectual property produced through research.

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. The “other sponsored activities” category 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.

Table 3 and Figures 1-4 provide information on expenditures and sources of funds for research and development and for other sponsored activities related to research for 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 1996

	Conduct of R&D	Other Sponsored Programs	Total
Public Universities	$768,479,644	$96,164,864	$864,644,508
Public Health-Related Institutions	497,306,416	93,829,779	591,136,195
Totals	**$1,265,786,060**	**$189,994,643**	**$1,455,780,703**

Figure 1

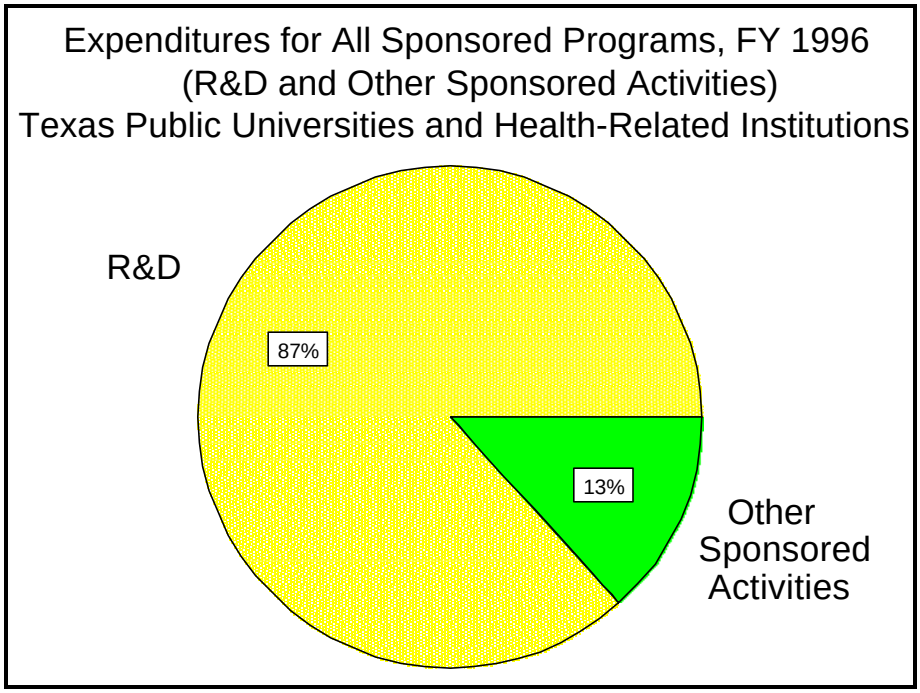


Figure 2

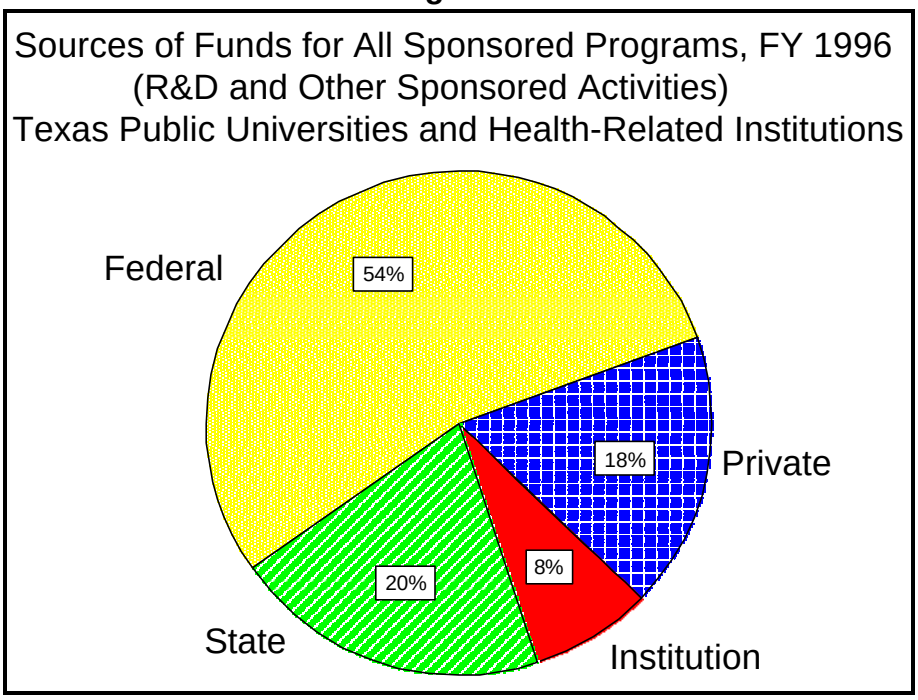


Figure 3

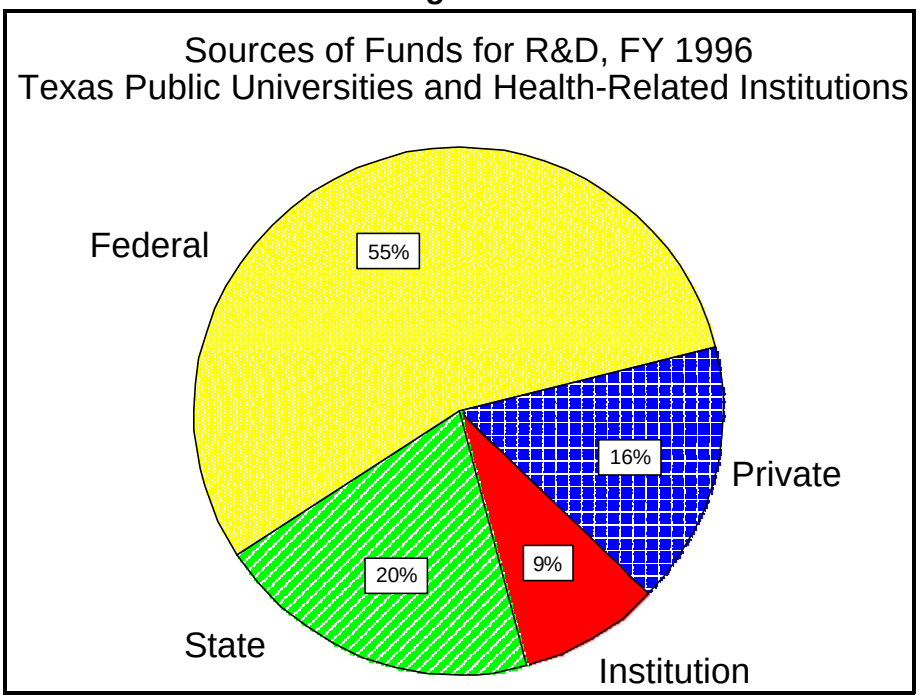


Figure 4

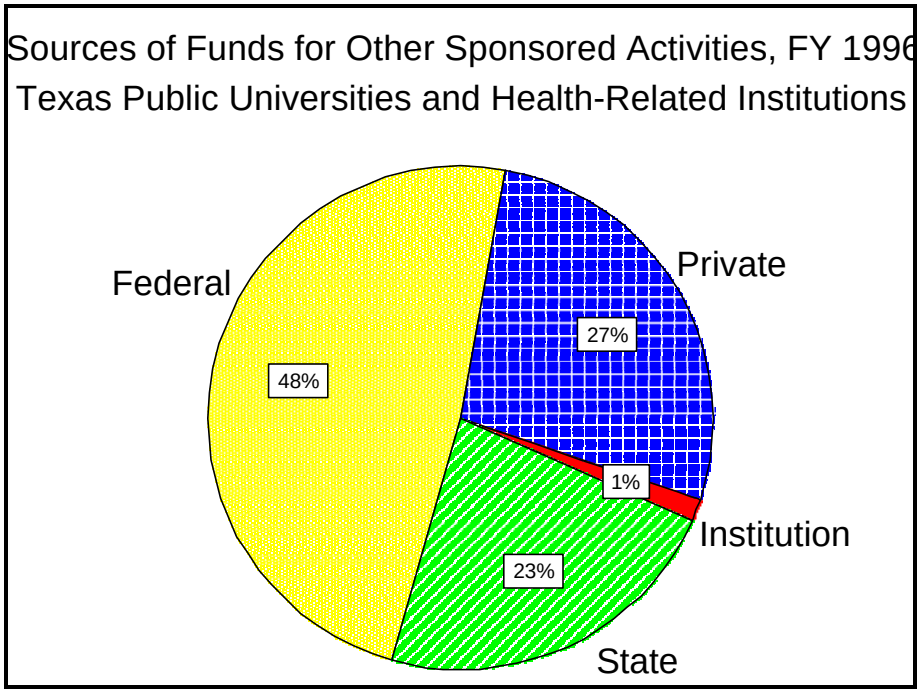


Table 4 indicates expenditures in the 16 different fields defined in Appendix A. The Coordinating Board's instructions directed institutions to assign project expenditures to only one field to avoid duplication.

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 4

Expenditures for Research & Development by Field and Source of Funding, FY 96
Texas Public Universities and Health-Related Institutions

Field	Federal	State Sources	Institution-Controlled	Private	Total
Medical Sciences	$262,899,285	$54,924,279	$15,742,257	$101,749,173	$435,314,994
Engineering	118,399,087	49,926,191	31,595,487	27,693,713	227,614,478
Biological and Other Life Sciences	72,602,301	57,998,969	20,008,722	18,683,114	169,293,106
Physical Sciences	74,713,237	20,042,776	5,521,646	16,347,986	116,625,645
Environmental Sciences	76,150,760	14,346,225	4,238,136	14,672,121	109,407,242
Agricultural Sciences	24,038,069	22,657,512	11,603,225	9,616,285	67,915,091
Social Sciences	12,766,149	11,308,280	3,861,004	3,820,116	31,755,549
Computer Science	21,617,057	3,309,149	3,481,359	1,616,339	30,023,904
Education	11,893,683	4,540,460	2,093,297	1,910,890	20,438,330
Business Administration	6,786,388	4,208,691	1,475,964	2,807,043	15,278,086
Mathematical Sciences	5,341,552	7,102,653	653,854	579,221	14,017,280
Psychology	6,543,472	1,155,064	1,031,486	456,537	9,186,559
Arts and Humanities	1,526,759	559,839	3,096,969	1,652,553	6,836,120
Law and Public Administration	1,007,692	885,666	31,646	3,078,968	5,003,972
Other Non-Science Activities	1,288,247	1,956,829	1,466,775	275,174	3,681,097
Other Sciences	166,458	346,411	1,236,007	321,803	3,394,607
Totals	**$697,740,196**	**$255,286,994**	**$107,477,834**	**$205,281,037**	**$1,265,786,060**

Table 5 shows research in 10 different areas of special interest. Double counting was allowed because many projects are relevant to two or more areas of research.

Table 5

Expenditures for Research & Development by Areas of Special Interest, FY 1996
Texas Public Universities and Health-Related Institutions

Functional Area	Federal	State	Institution-Controlled	Private	Total
Cancer Research	$80,367,236	$50,305,534	$12,501,889	$28,821,779	$171,996,438
Biotechnology	20,873,773	23,081,969	11,066,965	9,043,498	64,066,205
Energy	33,902,175	11,536,004	2,193,895	13,400,298	61,032,372
Food, Fiber, Agricultural Products	17,356,625	22,447,769	6,948,960	7,019,925	53,773,279
Environmental Science & Engineering	32,842,870	9,899,668	2,193,186	4,958,612	49,894,336
Materials Science & Engineering	21,387,714	5,653,285	1,575,630	5,091,713	33,708,342
Microelectronics & Computer Technology	24,109,116	2,848,862	795,178	3,294,839	31,047,995
Aerospace Technology	24,219,289	984,525	2,527,101	3,199,374	30,930,289
Manufacturing Technology	17,451,813	2,956,343	591,001	2,774,821	23,773,978
AIDS Research	8,383,662	1,109,779	90,925	1,890,048	11,474,414
Water Resources	4,844,703	2,045,734	916,620	1,281,532	9,088,589
Totals	**$285,738,976**	**$132,869,472**	**$41,401,350**	**$80,776,439**	**$540,786,237**

Table 6 provides an approximation of funding sources for both basic and applied research. Many projects contain elements of both and are difficult to classify. When reporting their data to the Coordinating Board, many institutions assume that some organizations, such as the National Science Foundation, support only basic research, while other organizations, including private industry, support only applied research. Broad definitions of basis and applied research are included in Appendix A.

Table 6

Expenditures for Research & Development by Character of Work and Source, FY 1996
Texas Public Universities and Health-Related Institutions

Character of Work	Federal	State Sources	Institution-Controlled	Private	Total
Basic Research	$580,192,934	$179,660,266	$71,154,470	$119,151,196	$950,158,866
Applied Research & Development	117,547,262	75,626,726	36,323,364	86,129,841	315,627,193

Totals	**$697,740,196**	**$255,286,992**	**$107,477,834**	**$205,281,037**	**$1,265,786,059**

Table 7 sorts funding sources into two categories: funds received through a competitive, peer-review process and funds received through a negotiation process.

In many cases, it is difficult to classify the contract and grant process. Contracts may be awarded competitively, with follow-up contracts negotiated. In some cases, contracts are not awarded after a review process, but sponsors face rigorous selection processes. There are many other considerations that make absolute generalizations invalid.

Institutions used several methods to estimate the data in this table. Many allowed funding sources to determine the proper category. Broad definitions for peer-review and negotiation processes are included in Appendix A.

Table 7

Expenditures for Research & Development by Selection Process and Source, FY 1996
Texas Public Universities and Health-Related Institutions

Selection Process	Federal	State Sources	Institution-Controlled	Private	Total
Funds from competitive, peer review	$578,954,424	$48,736,934	$5,288,119	$97,033,187	$730,012,664
Funds from negotiated or other	118,785,772	206,550,057	102,189,715	108,247,850	535,773,395
Totals	**$697,740,196**	**$255,286,992**	**$107,477,834**	**$205,281,037**	**$1,265,786,059**

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, University of Houston, and University of North Texas 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.

Institution	Expenditures
Texas A&M University and Services	$49,606,397
Texas Tech University	$7,889,822
Prairie View A&M University	$3,955,705
Texas A&M University at Kingsville	$3,009,871
Stephen F. Austin State University	$1,829,283

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

Institution	Expenditures
The University of Texas at Austin	$3,667,376
University of Houston	$737,300
University of North Texas	$698,205
Texas A&M University and Services	$542,644
Southwest Texas State University	$443,398

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.

Institution	Expenditures
Texas A&M University and Services	$60,758,229
UT M.D. Anderson Cancer Center	$52,929,065
The University of Texas at Austin	$18,080,551
UTHSC at Houston	$14,774,252
University of Houston	$3,413,273

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

Institution	Expenditures
The University of Texas at Austin	$5,739,988
Texas A&M University and Services	$3,568,937
Texas Tech University	$2,211,093
The University of Texas at El Paso	$923,804
University of Houston-Clear Lake	$575,540

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

Institution	Expenditures
The University of Texas at Austin	$10,359,359
The University of Texas at Arlington	$8,459,787
Texas A&M University and Services	$5,008,278
University of Houston	$1,846,237
University of Houston-Downtown	$851,643

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

Institution	Expenditures
Texas A&M University and Services	$7,822,788
University of North Texas	$4,156,662
The University of Texas at Austin	$2,676,520
Southwest Texas State University	$1,581,607
University of Houston	$1,359,300

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

Institution	Expenditures
The University of Texas at Austin	$98,186,549
Texas A&M University and Services	$84,750,581
The University of Texas at Arlington	$11,235,923
University of Houston	$8,670,106
Texas Tech University	$7,955,009

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

Institution	Expenditures
Texas A&M University and Services	$61,718,231
The University of Texas at Austin	$26,436,537
Sam Houston State University	$4,461,294
The University of Texas at El Paso	$3,382,330
Tarleton State University	$2,401,453

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

Institution	Expenditures
The University of Texas at Austin	$3,849,697
University of North Texas	$504,668
University of Houston	$461,333
The University of Texas at Arlington	$142,268
Texas Tech University	$27,111

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

Institution	Expenditures
The University of Texas at Austin	$3,759,802
UT M.D. Anderson Cancer Center	$2,559,114
University of North Texas	$2,466,120
Texas A&M University and Services	$1,513,949
University of Houston	$1,317,337

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

Institution	Expenditures
UT Southwestern Medical Center	$129,575,037
UTHSC at San Antonio	$71,837,194
UTHSC at Houston	$68,029,242
UTMB at Galveston	$64,234,730
UT M.D. Anderson Cancer Center	$62,938,035

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

Institution	Expenditures
The University of Texas at Austin	$52,020,033
University of Houston	$21,517,897
Texas A&M University and Services	$19,867,751
The University of Texas at Dallas	$6,109,630
Texas Tech University	$4,106,629

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

Institution	Expenditures
The University of Texas at Austin	$2,776,205
University of Houston	$2,427,452
Texas A&M University and Services	$1,473,549
University of North Texas	$998,965
The University of Texas at Dallas	$637,465

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.

Institution	Expenditures
Texas A&M University and Services	$14,988,976
The University of Texas at Austin	$5,120,630
Texas Tech University	$2,364,043
University of North Texas	$1,688,366
The University of Texas at San Antonio	$1,638,442

INSTITUTIONAL DATA

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 the report also apply to the data shown in this section of the report.

Figure 5

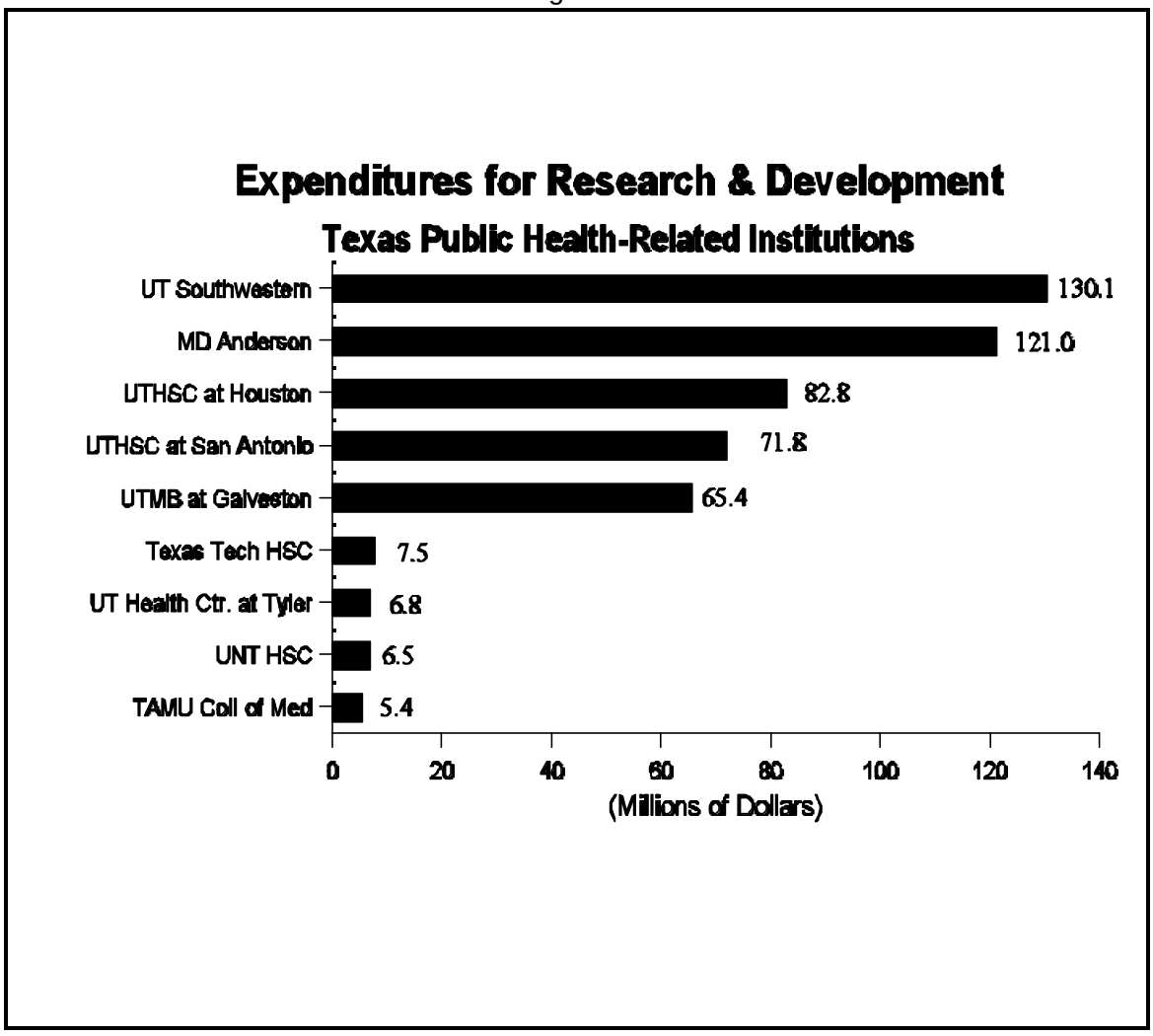


Figure 6

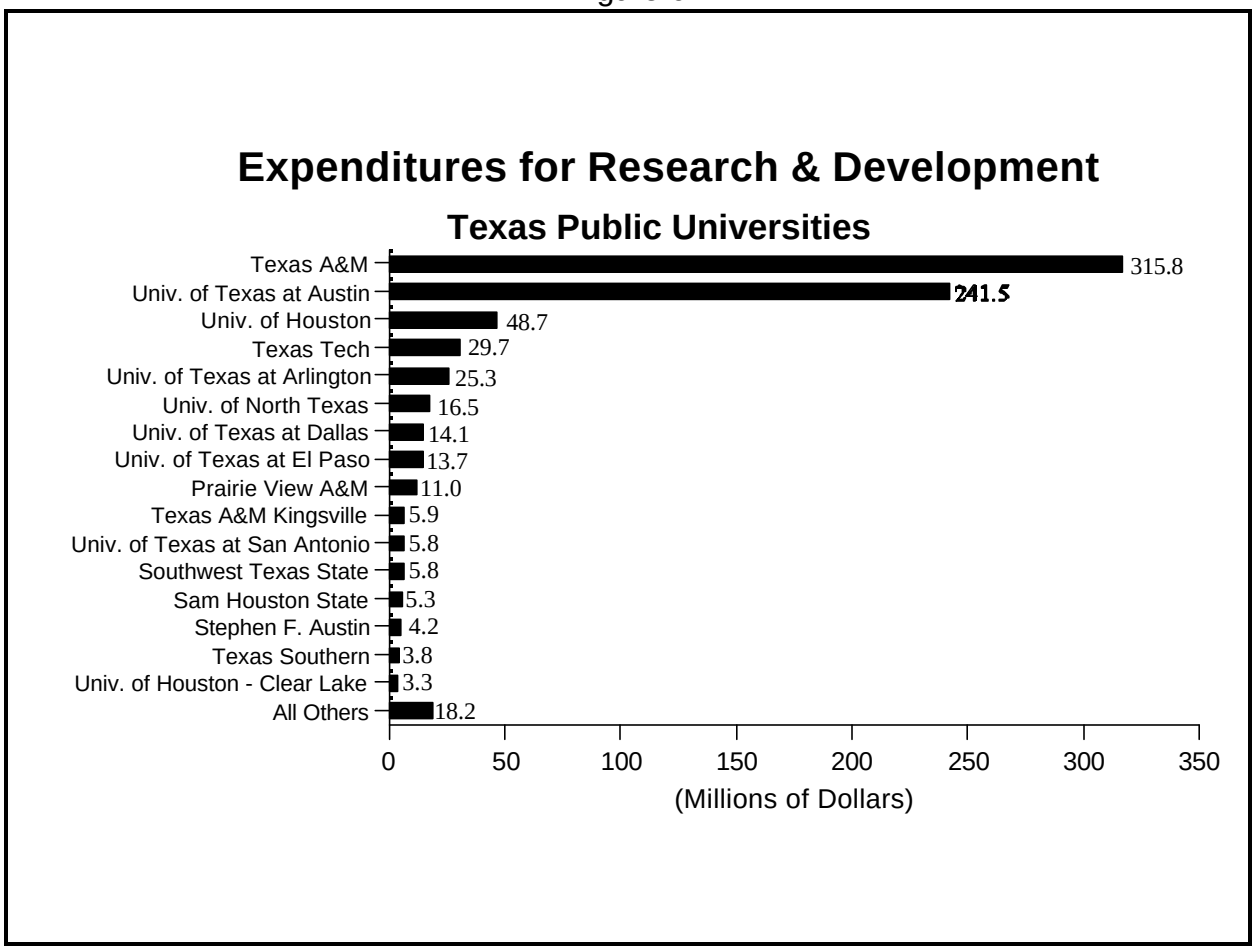

Expenditures for Research & Development
Texas Public Universities
Texas A&M
Univ. of Texas at Austin
Univ. of Houston
Texas Tech
Univ. of Texas at Arlington
Univ. of North Texas
Univ. of Texas at Dallas
Univ. of Texas at El Paso
Prairie View A&M
Texas A&M Kingsville
Univ. of Texas at San Antonio
Southwest Texas State
Sam Houston State
Stephen F. Austin
Texas Southern
Univ. of Houston - Clear Lake
All Others
315.8
241.5
48.7
29.7
25.3
16.5
14.1
13.7
11.0
5.9
5.8
5.8
5.3
4.2
3.8
3.3
18.2
0
50
100
150
200
250
300
350
(Millions of Dollars)

Table 8

Total Expenditures for Sponsored Programs by Source of Funds				
Institution	Federal		State	
	R&D	Other	R&D	Other
Midwestern State	$18,257	$0	$9,949	$0
Stephen F. Austin State	1,687,020	0	395,248	0
Texas A&M University System				
Prairie View A & M	10,657,992	75,694	189,543	0
Tarleton State	831,562	0	1,510,010	0
Texas A&M	146,969,502	681,347	85,321,381	443,375
Texas A&M-Commerce	146,344	4,993,104	105,548	221,134
Texas A&M-Corpus Christi	696,546	0	106,966	463,125
Texas A&M at Galveston	803,982	2,196,830	595,758	164,905
Texas A&M International	163,822	51,842	24,445	75,061
Texas A&M-Kingsville	1,808,578	2,602,027	2,596,378	293,986
Texas A&M-Texarkana	0	0	0	5,181
West Texas A&M	100,083	2,992,692	985,337	0
Texas Southern	3,473,776	6,599,390	294,293	663,244
Texas State University System				
Angelo State	961	0	433,728	0
Lamar	2,091,222	2,085,759	957,257	409,824
Sam Houston State	4,497,667	0	521,423	54,606
Southwest Texas State	2,385,620	1,617,109	1,859,421	1,074,450
Sul Ross State	137,304	0	111,324	0
Sul Ross-Rio Grande	0	0	1,010	0
Texas Tech	11,354,803	3,149,799	10,323,107	539,083
Texas Woman's	1,038,389	0	587,558	0
The University of Texas System				
UT at Arlington	14,975,514	0	7,003,222	0
UT at Austin	147,807,148	0	34,169,515	0
UT at Brownsville	0	0	61,569	0
UT at Dallas	5,263,990	1,218,859	1,406,649	0
UT at El Paso	10,471,945	19,102,389	1,585,953	822,140
UT-Pan American	1,235,793	0	772,554	0
UT of the Permian Basin	335,908	13,626	76,727	255,326
UT at San Antonio	4,147,788	5,803,378	1,070,752	1,984,354
UT at Tyler	4,426	0	325,938	0
University of Houston System				
University of Houston	26,482,227	3,297,821	15,247,865	3,563,229
University of Houston-Clear Lake	3,009,120	333,220	85,076	87,954
University of Houston-Downtown	947,282	144,394	0	12,855
University of Houston-Victoria	0	0	11,738	0
University of North Texas	5,774,282	674,877	4,577,672	32,290
Subtotals	**$409,318,853**	**$57,634,157**	**$173,324,914**	**$11,166,122**
TAMU College of Medicine	4,150,998	0	210,411	0
Texas Tech University HSC	3,024,593	221,076	2,175,016	147,265
University of North Tx HSC	4,846,555	0	256,526	0
UT M.D. Anderson Cancer Center	42,793,595	0	47,699,446	0
UTMB at Galveston	38,322,819	17,749,037	11,421,194	0
UTHSC at Houston	61,455,947	0	4,308,058	0
UT Health Center at Tyler	1,155,693	0	2,042,845	0
UTHSC at San Antonio	51,203,151	9,011,889	6,642,338	18,414,313
UT Southwestern Medical Center	81,467,992	7,351,474	7,206,246	13,549,472
Subtotals	**$288,421,343**	**$34,333,476**	**$81,962,080**	**$32,111,050**
Totals	**$697,740,196**	**$91,967,633**	**$255,286,994**	**$43,277,172**

Shading indicates the five highest expenditures within each category.

Table 8 - continued

Total Expenditures for Sponsored Programs by Source of Funds				
Institution	Institution		Private	
	R&D	Other	R&D	Other
Midwestern State	$0	$0	$33,567	$0
Stephen F. Austin State	1,419,833	0	662,372	0
Texas A&M University System				
Prairie View A & M	999	0	120,798	0
Tarleton State	0	0	139,133	0
Texas A&M	54,104,769	195,215	29,401,657	3,120,575
Texas A&M-Commerce	0	(1,832)	146,468	202,618
Texas A&M-Corpus Christi	0	0	751,693	176,049
Texas A&M at Galveston	33,799	139,114	764,276	0
Texas A&M International	0	2,995	0	7,650
Texas A&M at Kingsville	0	0	1,458,997	430,876
Texas A&M-Texarkana	0	0	0	0
West Texas A&M	4,398	0	145,559	0
Texas Southern	1,792	345,355	50,788	727,848
Texas State University System				
Angelo State	0	0	82,265	0
Lamar	0	163,781	173,034	163,344
Sam Houston State	25,549	0	293,870	0
Southwest Texas State	1,100,030	0	474,644	1,127,278
Sul Ross State	0	0	67,754	0
Sul Ross-Rio Grande	0	0	0	0
Texas Tech	616,629	0	7,390,306	5,122,407
Texas Woman's	0	0	252,093	0
The University of Texas System				
UT at Arlington	34,378	0	3,245,265	0
UT at Austin	22,844,448	0	36,660,179	0
UT at Brownsville	0	0	0	0
UT at Dallas	2,380,993	0	5,055,016	0
UT at El Paso	1,231,495	0	427,810	6,528,915
UT-Pan American	6,211	0	56,854	0
UT of the Permian Basin	1,255	96,904	65,636	17,799
UT at San Antonio	271,068	6,935	402,835	662,322
UT at Tyler	42,552	0	22,753	0
University of Houston System				
University of Houston	1,296,796	0	5,651,647	2,564,826
University of Houston-Clear Lake	0	0	186,608	12,202
University of Houston-Downtown	42,993	0	0	0
University of Houston-Victoria	8,823	0	0	0
University of North Texas	2,672,007	1,564,947	3,511,184	3,986,462
Subtotals	**$88,140,817**	**$2,513,414**	**$97,695,061**	**$24,851,171**
TAMU Colegel of Medicine	332,115	0	670,645	3,806
Texas Tech University HSC	475,949	46,899	1,853,981	163,099
University of North TX HSC	270,192	0	1,125,558	0
UT M.D. Anderson Cancer Center	12,200,824	0	18,270,105	0
UTMB at Galveston	1,748,460	0	13,897,045	0
UTHSC at Houston	715,257	0	16,324,232	0
UT Health Center at Tyler	2,381,756	0	1,177,283	0
UTHSC at San Antonio	103,480	0	13,888,225	7,331,943
UT Southwestern Medical Center	1,108,984	0	40,378,902	19,839,506
Subtotals	**$19,337,017**	**$46,899**	**$107,585,976**	**$27,338,354**
Totals	**$107,477,834**	**$2,560,313**	**$205,281,037**	**$52,189,525**

Shading indicates the five highest expenditures within each category.

Table 8 - continued

Total Expenditures for Sponsored Programs by Source of Funds			
Institution	Total		
	R&D	Other	Total
idwestern State	$61,773	$0	$61,773
tephen F. Austin State	4,164,473	0	4,164,473
exas A&M University System			
Prairie View A & M	10,969,332	75,694	11,045,026
Tarleton State	2,480,705	0	2,480,705
Texas A&M	315,797,309	4,440,512	320,237,821
Texas A&M-Commerce	398,360	5,415,024	5,813,384
Texas A&M-Corpus Christi	1,555,205	639,174	2,194,379
Texas A&M at Galveston	2,197,815	2,500,849	4,698,664
Texas A&M International	188,267	137,548	325,815
Texas A&M at Kingsville	5,863,953	3,326,889	9,190,842
Texas A&M-Texarkana	0	5,181	5,181
West Texas A&M	1,235,377	2,992,692	4,228,069
exas Southern	3,820,649	8,335,837	12,156,486
exas State University System			
Angelo State	516,954	0	516,954
Lamar	3,221,513	2,822,708	6,044,221
Sam Houston State	5,338,509	54,606	5,393,115
Southwest Texas State	5,819,715	3,818,837	9,638,552
Sul Ross State	316,382	0	316,382
Sul Ross - Rio Grande	1,010	0	1,010
exas Tech	29,684,845	8,811,289	38,496,134
exas Woman's	1,878,040	0	1,878,040
he University of Texas System			
UT at Arlington	25,258,379	0	25,258,379
UT at Austin	241,481,290	0	241,481,290
UT at Brownsville	61,569	0	61,569
UT at Dallas	14,106,648	1,218,859	15,325,507
UT at El Paso	13,717,203	26,453,444	40,170,647
UT-Pan American	2,071,412	0	2,071,412
UT of the Permian Basin	479,526	383,655	863,181
UT at San Antonio	5,892,443	8,456,989	14,349,432
UT at Tyler	395,669	0	395,669
niversity of Houston System			
University of Houston	48,678,534	9,425,876	58,104,410
University of Houston-Clear Lake	3,280,804	433,376	3,714,180
University of Houston-Downtown	990,275	157,249	1,147,524
University of Houston-Victoria	20,561	0	20,561
niversity of North Texas	16,535,145	6,258,576	22,793,721
Subtotals	**$768,479,644**	**$96,164,864**	**$864,644,508**
AMU College of Medicine	5,364,169	3,806	5,367,975
exas Tech University HSC	7,529,539	578,339	8,107,878
niversity of North TX HSC	6,498,831	0	6,498,831
T M.D. Anderson Cancer Center	120,963,970	0	120,963,970
TMB at Galveston	65,389,518	17,749,037	83,138,555
THSC at Houston	82,803,494	0	82,803,494
T Health Center at Tyler	6,757,577	0	6,757,577
THSC at San Antonio	71,837,194	34,758,145	106,595,339
T Southwestern Medical Center	130,162,124	40,740,452	170,902,576
Subtotals	**$497,306,416**	**$93,829,779**	**$591,136,195**
otals	**$1,265,786,060**	**$189,994,643**	**$1,455,780,703**

Shading indicates the five highest expenditures within each category.

Table 9

Expenditures for Research & Development by Field				
Institution	Agricultural Sciences	Arts and Humanities	Biol. & Other Life Sciences	Business Administration
Midwestern State	$0	$0	$40,283	$5,111
Stephen F. Austin State	1,829,283	158,638	1,099,130	37,316
Texas A&M University System				
Prairie View A&M	3,955,705	14,388	372,839	10,433
Tarleton State	0	3,011	0	4,745
Texas A&M	49,606,397	542,644	60,758,229	3,568,937
Texas A&M-Commerce	164,762	6,841	0	5,277
Texas A&M-Corpus Christi	0	0	183,733	0
Texas A&M at Galveston	0	11,604	42,280	33,045
Texas A&M International	0	1,135	6,496	168,876
Texas A&M at Kingsville	3,009,871	0	163,384	0
Texas A&M-Texarkana	0	0	0	0
West Texas A&M	791,685	30,240	118,856	14,689
Texas Southern	0	0	2,365,378	0
Texas State University System				
Angelo State	327,600	26,498	75,761	17,942
Lamar	0	4,748	44,623	158,979
Sam Houston State	100,298	0	11,189	24,036
Southwest Texas State	22,585	443,398	368,739	19,580
Sul Ross State	68,494	0	133,115	0
Sul Ross-Rio Grande	0	0	0	0
Texas Tech	7,889,822	38,249	2,798,086	2,211,093
Texas Woman's	0	1,441	1,318,793	1,065
The University of Texas System				
UT at Arlington	0	54,132	462,908	57,219
UT at Austin	0	3,667,376	18,080,551	5,739,988
UT at Brownsville	0	0	14,926	0
UT at Dallas	0	138,059	1,367,529	533,541
UT at El Paso	0	120,974	1,799,409	923,804
UT-Pan American	23,763	1,815	122,111	205,586
UT of the Permian Basin	0	0	34,892	110,000
UT at San Antonio	0	65,076	2,004,687	221,160
UT at Tyler	0	397	26,258	6,800
University of Houston System				
University of Houston	0	737,300	3,413,273	365,440
University of Houston-Clear Lake	4,684	0	62,671	575,540
University of Houston-Downtown	0	0	0	0
University of Houston-Victoria	0	5,586	0	1,549
University of North Texas	92,581	698,205	1,014,834	254,045
Subtotals	**$67,887,530**	**$6,771,755**	**$98,304,963**	**$15,275,796**
TAMU College of Medicine	27,561	6,125	60,483	2,290
Texas Tech University HSC	0	0	2,637,255	0
University of North Tx HSC	0	0	0	0
UT M.D. Anderson Cancer Center	0	0	52,929,065	0
UTMB at Galveston	0	58,239	0	0
UTHSC at Houston	0	0	14,774,252	0
UT Health Center at Tyler	0	0	0	0
UTHSC at San Antonio	0	0	0	0
UT Southwestern Medical Center	0	0	587,087	0
Subtotals	**$27,561**	**$64,364**	**$70,988,142**	**$2,290**
Totals	**$67,915,091**	**$6,836,119**	**$169,293,105**	**$15,278,086**

Shading indicates the five highest expenditures in each field.

Table 9 - continued

Expenditures for Research & Development by Field				
Institution	Computer Science	Education	Engineering	Environmental Sciences
Midwestern State	$0	$0	$0	$0
Stephen F. Austin State	1,103	277,803	0	0
Texas A&M University System				
Prairie View A&M	402,033	322,269	4,670,206	56,417
Tarleton State	0	0	0	2,401,453
Texas A&M	5,008,278	7,822,788	84,750,581	61,718,231
Texas A&M-Commerce	0	127,834	0	0
Texas A&M-Corpus Christi	0	0	105,169	1,236,023
Texas A&M at Galveston	0	58,652	0	1,912,263
Texas A&M International	0	2,928	0	0
Texas A&M at Kingsville	192,520	850	1,845,706	434,850
Texas A&M-Texarkana	0	0	0	0
West Texas A&M	0	19,592	170,582	24,737
Texas Southern	0	0	155,273	295,927
Texas State University System				
Angelo State	7,495	9,418	0	0
Lamar	28,237	175,280	622,233	1,374,010
Sam Houston State	3,357	2,399	0	4,461,294
Southwest Texas State	143,144	1,581,607	112,050	555,052
Sul Ross State	0	0	0	5,071
Sul Ross-Rio Grande	0	0	0	0
Texas Tech	339,129	734,410	7,955,009	697,966
Texas Woman's	0	10,010	0	0
The University of Texas System				
UT at Arlington	8,459,787	0	11,235,923	269,083
UT at Austin	10,359,359	2,676,520	98,186,549	26,436,537
UT at Brownsville	6,365	0	4,871	13,548
UT at Dallas	580,249	3,001	663,804	1,841,479
UT at El Paso	388,290	46,752	3,651,087	3,382,330
UT-Pan American	23,849	272,158	293,176	75,066
UT of the Permian Basin	0	0	306,711	0
UT at San Antonio	611,263	66,631	804,535	56,927
UT at Tyler	11,263	288,653	0	12,794
University of Houston System				
University of Houston	1,846,237	1,359,300	8,670,106	1,050,216
University of Houston-Clear Lake	312,933	74,895	1,826,337	80,632
University of Houston-Downtown	851,643	0	0	0
University of Houston-Victoria	3,430	8,013	0	0
University of North Texas	443,940	4,156,662	488,021	983,946
Subtotals	**$30,023,904**	**$20,098,425**	**$226,517,929**	**$109,375,852**
TAMU College of Medicine	0	21,981	0	22,390
Texas Tech University HSC	0	0	0	0
University of North Tx HSC	0	317,924	0	0
UT M.D. Anderson Cancer Center	0	0	0	0
UTMB at Galveston	0	0	1,096,549	0
UTHSC at Houston	0	0	0	0
UT Health Center at Tyler	0	0	0	9,000
UTHSC at San Antonio	0	0	0	0
UT Southwestern Medical Center	0	0	0	0
Subtotals	**$0**	**$339,905**	**$1,096,549**	**$31,390**
Totals	**$30,023,904**	**$20,438,330**	**$227,614,478**	**$109,407,242**

Shading indicates the five highest expenditures in each field.

Table 9 - continued

Expenditures for Research & Development by Field				
Institution	Law and Public Administration	Mathematical Sciences	Medical Sciences	Physical Sciences
Midwestern State	$0	$0	$137	$15,367
Stephen F. Austin State	4,356	23,567	6,296	50,501
Texas A&M University System				
Prairie View A&M	0	75,006	29,499	1,060,537
Tarleton State	0	18,151	0	31,288
Texas A&M	0	1,513,949	4,176,999	19,867,751
Texas A&M-Commerce	0	648	0	92,998
Texas A&M-Corpus Christi	661	1,498	0	28,121
Texas A&M at Galveston	0	0	0	139,971
Texas A&M International	0	1,762	1,000	2,642
Texas A&M at Kingsville	0	20,091	7,121	15,197
Texas A&M-Texarkana	0	0	0	0
West Texas A&M	0	0	0	60,749
Texas Southern	0	0	0	380,090
Texas State University System				
Angelo State	0	0	8,403	29,306
Lamar	0	29,442	7,355	168,120
Sam Houston State	0	174,901	0	358,901
Southwest Texas State	4,749	259,673	783,671	505,069
Sul Ross State	0	0	0	0
Sul Ross-Rio Grande	0	0	0	0
Texas Tech	27,111	466,750	0	4,106,629
Texas Woman's	0	197,583	238,076	34,011
The University of Texas System				
UT at Arlington	142,268	88,094	295,320	2,985,521
UT at Austin	3,849,697	3,759,802	6,227,873	52,020,033
UT at Brownsville	0	5,343	0	13,264
UT at Dallas	0	170,257	789,410	6,109,630
UT at El Paso	0	431,756	72,649	1,264,251
UT-Pan American	9,129	35,095	658,879	247,876
UT of the Permian Basin	0	0	0	27,923
UT at San Antonio	0	214,008	0	209,714
UT at Tyler	0	3,671	24,474	0
University of Houston System				
University of Houston	461,333	1,317,337	2,297,186	21,517,897
University of Houston-Clear Lake	0	75,793	0	26,717
University of Houston-Downtown	0	107,868	0	4,326
University of Houston-Victoria	0	0	0	0
University of North Texas	504,668	2,466,120	89,218	2,655,574
Subtotals	**$5,003,972**	**$11,458,165**	**$15,713,566**	**$114,029,974**
TAMU College of Medicine	0	0	5,165,423	57,916
Texas Tech University HSC	0	0	4,892,284	0
University of North Tx HSC	0	0	6,180,907	0
UT M.D. Anderson Cancer Center	0	2,559,114	62,938,035	2,537,756
UTMB at Galveston	0	0	64,234,730	0
UTHSC at Houston	0	0	68,029,242	0
UT Health Center at Tyler	0	0	6,748,577	0
UTHSC at San Antonio	0	0	71,837,194	0
UT Southwestern Medical Center	0	0	129,575,037	0
Subtotals	**$0**	**$2,559,114**	**$419,601,429**	**$2,595,672**
Totals	**$5,003,972**	**$14,017,279**	**$435,314,995**	**$116,625,646**

Shading indicates five highest expenditures in each field.

Table 9 - continued

Expenditures for Research & Development by Field					
Institution	Psychology	Social Sciences	Other Sciences	Other Non-Science	Total
Midwestern State	$0	$875	$0	$0	$61,773
Stephen F. Austin State	37,221	639,259	0	0	4,164,473
Texas A&M University System					
Prairie View A&M	0	0	0	0	10,969,332
Tarleton State	2,556	11,586	0	7,915	2,480,705
Texas A&M	1,473,549	14,988,976	0	0	315,797,309
Texas A&M-Commerce	0	0	0	0	398,360
Texas A&M-Corpus Christi	0	0	0	0	1,555,205
Texas A&M at Galveston	0	0	0	0	2,197,815
Texas A&M International	300	3,128	0	0	188,267
Texas A&M at Kingsville	0	0	85	174,278	5,863,953
Texas A&M-Texarkana	0	0	0	0	0
West Texas A&M	507	3,740	0	0	1,235,377
Texas Southern	0	432,847	0	191,134	3,820,649
Texas State University System					
Angelo State	14,531	0	0	0	516,954
Lamar	4,500	17,103	12,500	574,383	3,221,513
Sam Houston State	49,304	152,830	0	0	5,338,509
Southwest Texas State	37,364	104,357	686,004	192,673	5,819,715
Sul Ross State	0	109,702	0	0	316,382
Sul Ross-Rio Grande	1,010	0	0	0	1,010
Texas Tech	56,548	2,364,043	0	0	29,684,845
Texas Woman's	0	17,826	59,235	0	1,878,040
The University of Texas System					
UT at Arlington	53,357	1,154,767	0	0	25,258,379
UT at Austin	2,776,205	5,120,630	359,220	2,220,950	241,481,290
UT at Brownsville	2,593	659	0	0	61,569
UT at Dallas	637,465	1,272,224	0	0	14,106,648
UT at El Paso	596,281	1,039,620	0	0	13,717,203
UT-Pan American	9,652	93,257	0	0	2,071,412
UT of the Permian Basin	0	0	0	0	479,526
UT at San Antonio	0	1,638,442	0	0	5,892,443
UT at Tyler	7,127	14,232	0	0	395,669
University of Houston System					
Univ of Houston	2,427,452	638,838	2,544,343	32,274	48,678,535
Univ of Houston-Clear Lake	0	240,602	0	0	3,280,804
Univ of Houston-Downtown	0	6,728	19,710	0	990,275
Univ of Houston-Victoria	72	911	0	1,000	20,561
Univ of North Texas	998,965	1,688,366	0	0	16,535,145
Subtotals	**$9,186,559**	**$31,755,548**	**$3,681,097**	**$3,394,607**	**$768,479,644**
TAMU Coll of Medicine	0	0	0	0	5,364,169
Texas Tech Univ HSC	0	0	0	0	7,529,539
Univ North Tx HSC	0	0	0	0	6,498,831
UT M.D. Anderson Cancer Ctr	0	0	0	0	120,963,970
UTMB at Galveston	0	0	0	0	65,389,518
UTHSC at Houston	0	0	0	0	82,803,494
UT Health Ctr at Tyler	0	0	0	0	6,757,577
UTHSC at San Antonio	0	0	0	0	71,837,194
UT Southwestern Med Ctr	0	0	0	0	130,162,124
Subtotals	**$0**	**$0**	**$0**	**$0**	**$497,306,416**
Totals	**$9,186,559**	**$31,755,548**	**$3,681,097**	**$3,394,607**	**$1,265,786,060**

Shading indicates the five highest expenditures in each field.

Table 10

Expenditures for Research & Development by Character of Work			
Institution	Basic Research	Applied Research & Development	Total
Midwestern State	$61,773	$0	$61,773
Stephen F. Austin State	1,225,029	2,939,444	4,164,473
Texas A&M University System			
Prairie View A&M	9,766,447	1,202,885	10,969,332
Tarleton State	110,641	2,370,064	2,480,705
Texas A&M	239,219,382	76,577,927	315,797,309
Texas A&M-Commerce	22,130	376,230	398,360
Texas A&M-Corpus Christi	696,546	858,659	1,555,205
Texas A&M at Galveston	2,020,500	177,315	2,197,815
Texas A&M International	188,267	0	188,267
Texas A&M at Kingsville	2,770,888	3,093,065	5,863,953
Texas A&M-Texarkana	0	0	0
West Texas A&M	1,021,876	213,501	1,235,377
Texas Southern	1,722,722	2,097,927	3,820,649
Texas State University System			
Angelo State	57,217	459,737	516,954
Lamar	23,138	3,198,375	3,221,513
Sam Houston State	486,663	4,851,846	5,338,509
Southwest Texas State	5,582,393	237,322	5,819,715
Sul Ross State	316,382	0	316,382
Sul Ross-Rio Grande	1,010	0	1,010
Texas Tech	17,563,910	12,120,935	29,684,845
Texas Woman's	712,117	1,165,923	1,878,040
The University of Texas System			
UT at Arlington	8,648,935	16,609,444	25,258,379
UT at Austin	233,378,327	8,102,963	241,481,290
UT at Brownsville	0	61,569	61,569
UT at Dallas	11,966,993	2,139,655	14,106,648
UT at El Paso	11,646,354	2,070,849	13,717,203
UT-Pan American	0	2,071,412	2,071,412
UT of the Permian Basin	139,542	339,984	479,526
UT at San Antonio	5,828,874	63,569	5,892,443
UT at Tyler	371,195	24,474	395,669
University of Houston System			
University of Houston	42,915,776	5,762,756	48,678,533
University of Houston-Clear Lake	322,940	2,957,864	3,280,804
University of Houston-Downtown	12,671	977,604	990,275
University of Houston-Victoria	20,561	0	20,561
University of North Texas	7,528,317	9,006,828	16,535,145
Subtotals	**$606,349,517**	**$162,130,126**	**$768,479,643**
TAMU College of Medicine	5,333,494	30,675	5,364,169
Texas Tech University HSC	6,005,031	1,524,508	7,529,539
University of North Tx HSC	5,242,228	1,256,603	6,498,831
UT M.D. Anderson Cancer Center	60,318,593	60,645,377	120,963,970
UTMB at Galveston	58,969,224	6,420,294	65,389,518
UTHSC at Houston	14,774,252	68,029,242	82,803,494
UT Health Center at Tyler	6,382,879	374,698	6,757,577
UTHSC at San Antonio	71,837,194	0	71,837,194
UT Southwestern Medical Center	114,946,454	15,215,670	130,162,124
Subtotals	**$343,809,349**	**$153,497,067**	**$497,306,416**
Totals	**$950,158,867**	**$315,627,193**	**$1,265,786,060**

Shading indicated the five highest expenditures in each field.

Table 11

Expenditures for Research & Development by Area of Special Interest				
Institution	Aerospace Technology	AIDS Research	Biotechnology	Cancer Research
Midwestern State	$0	$0	$0	$0
Stephen F. Austin State	0	0	147,598	0
Texas A&M University System				
Prairie View A&M	147,252	0	557,677	0
Tarleton State	0	0	0	0
Texas A&M	1,344,357	160,149	45,461,792	1,538,194
Texas A&M-Commerce	0	0	0	0
Texas A&M-Corpus Christi	0	0	0	0
Texas A&M at Galveston	0	0	46,365	0
Texas A&M International	0	0	0	0
Texas A&M at Kingsville	45,455	0	0	0
Texas A&M-Texarkana	0	0	0	0
West Texas A&M	0	0	0	0
Texas Southern	0	426,349	0	0
Texas State University System				
Angelo State	0	0	0	0
Lamar	101,699	0	0	0
Sam Houston State	0	0	0	0
Southwest Texas State	0	0	0	27,502
Sul Ross State	0	0	0	0
Sul Ross-Rio Grande	0	0	0	0
Texas Tech	954,339	10,809	2,165,980	59,222
Texas Woman's	0	0	0	5,039
The University of Texas System				
UT at Arlington	147,228	0	81,826	0
UT at Austin	17,366,291	565,240	1,608,253	1,713,367
UT at Brownsville	0	0	0	0
UT at Dallas	3,319,009	0	1,038,173	195,325
UT at El Paso	2,096,606	0	0	0
UT-Pan American	0	0	0	83,231
UT of the Permian Basin	0	0	34,892	0
UT at San Antonio	565,079	0	0	0
UT at Tyler	0	0	0	0
University of Houston System				
University of Houston	2,083,686	527,925	2,636,905	747,202
University of Houston-Clear Lake	2,057,625	0	45,017	0
University of Houston-Downtown	496,935	0	0	0
University of Houston-Victoria	0	0	0	0
University of North Texas	204,728	102,915	186,860	0
Subtotals	**$30,930,289**	**$1,793,387**	**$54,011,338**	**$4,369,082**
TAMU College of Medicine	0	0	38,271	2,290
Texas Tech University HSC	0	317,174	0	394,062
University North Tx HSC	0	0	1,527,872	17,704
UT M.D. Anderson Cancer Center	0	502,549	0	120,461,422
UTMB at Galveston	0	4,447,421	7,230,078	6,308,491
UTHSC at Houston	0	1,769,848	483,923	5,162,822
UT Health Center at Tyler	0	0	0	93,854
UTHSC at San Antonio	0	371,090	774,723	22,101,141
UT Southwestern Medical Center	0	2,272,945	0	13,085,570
Subtotals	**$0**	**$9,681,027**	**$10,054,867**	**$167,627,356**
Totals	**$30,930,289**	**$11,474,414**	**$64,066,205**	**$171,996,438**

Shading indicated the five highest expenditures in each field.

Table 11 - continued

Expenditures for Research & Development by Area of Special Interest				
Institution	Energy	Environ Sci & Engineering	Food, Fiber, Agric. Products	Manufacturing Technology
Midwestern State	$0	$0	$0	$0
Stephen F. Austin State	0	2,166,485	1,719,884	0
Texas A&M University System				
Prairie View A&M	525,367	187,660	3,752,281	0
Tarleton State	0	2,261,244	0	0
Texas A&M	4,931,031	9,925,349	36,126,825	1,591,261
Texas A&M-Commerce	0	0	0	0
Texas A&M-Corpus Christi	0	1,341,192	0	0
Texas A&M at Galveston	0	594,994	5,050	0
Texas A&M International	0	0	0	0
Texas A&M at Kingsville	516,425	539,265	1,105,639	0
Texas A&M-Texarkana	0	0	0	0
West Texas A&M	203,332	19,352	779,931	0
Texas Southern	0	241,078	0	0
Texas State University System				
Angelo State	0	0	331,843	0
Lamar	0	2,475,032	0	58,929
Sam Houston State	103,830	4,478,016	100,298	0
Southwest Texas State	0	300,040	11,016	105,238
Sul Ross State	0	0	0	0
Sul Ross-Rio Grande	0	0	0	0
Texas Tech	2,779,069	5,275,068	8,312,294	1,620,882
Texas Woman's	0	0	319,397	0
The University of Texas System				
UT at Arlington	1,224,480	367,091	0	2,581,654
UT at Austin	36,154,308	4,711,059	826,921	9,106,533
UT at Brownsville	0	0	0	0
UT at Dallas	268,326	717,919	0	0
UT at El Paso	839,607	4,304,490	0	547,776
UT-Pan American	0	0	0	293,176
UT of the Permian Basin	279,510	114,942	0	0
UT at San Antonio	0	9,365	0	0
UT at Tyler	0	12,794	0	0
University of Houston System				
University of Houston	12,965,816	8,881,638	142,876	7,622,656
University of Houston-Clear Lake	0	82,206	23,186	0
University of Houston-Downtown	0	0	0	0
University of Houston-Victoria	0	0	0	0
University of North Texas	241,271	856,667	215,838	245,873
Subtotals	**$61,032,372**	**$49,862,946**	**$53,773,279**	**$23,773,978**
TAMU College of Medicine	0	22,390	0	0
Texas Tech University HSC	0	0	0	0
University of North Tx HSC	0	0	0	0
UT M.D. Anderson Cancer Center	0	0	0	0
UTMB at Galveston	0	0	0	0
UTHSC at Houston	0	0	0	0
UT Health Center at Tyler	0	9,000	0	0
UTHSC at San Antonio	0	0	0	0
UT Southwestern Medical Center	0	0	0	0
Subtotals	**$0**	**$31,390**	**$0**	**$0**
Totals	**$61,032,372**	**$49,894,336**	**$53,773,279**	**$23,773,978**

Shading indicated the five highest expenditures in each field.

Table 11 - continued

Expenditures for Research & Development by Area of Special Interest				
Institution	Materials Sci & Engr	Micro & Comp.Techn	Water Resources	Total
Midwestern State	0	$0	$0	$0
Stephen F. Austin State	0	1,103	428,840	4,463,910
Texas A&M University System				
Prairie View A&M	246,390	0	0	5,416,627
Tarleton State	0	0	0	2,261,244
Texas A&M	4,799,715	2,681,511	1,805,595	110,365,779
Texas A&M-Commerce	0	0	0	0
Texas A&M-Corpus Christi	0	0	0	1,341,192
Texas A&M at Galveston	0	0	0	646,409
Texas A&M International	0	0	0	0
Texas A&M at Kingsville	5,004	0	9,715	2,221,503
Texas A&M-Texarkana	0	0	0	0
West Texas A&M	16,366	0	0	1,018,981
Texas Southern	67,298	0	0	734,725
Texas State University System				
Angelo State	0	0	0	331,843
Lamar	210,662	4,647	0	2,850,969
Sam Houston State	27,358	3,357	0	4,712,859
Southwest Texas State	139,090	0	0	582,886
Sul Ross State	0	0	0	0
Sul Ross-Rio Grande	0	0	0	0
Texas Tech	1,257,969	1,820,475	849,057	25,105,164
Texas Woman's	0	0	0	324,436
The University of Texas System				
UT at Arlington	259,740	389,245	0	5,051,264
UT at Austin	6,984,398	15,797,056	3,160,543	97,993,969
UT at Brownsville	0	0	0	0
UT at Dallas	1,593,906	1,260,798	0	8,393,456
UT at El Paso	2,359,219	2,959,123	2,108,937	15,215,758
UT-Pan American	0	23,849	0	400,256
UT of the Permian Basin	0	0	16,060	445,404
UT at San Antonio	610,790	28,422	47,562	1,261,218
UT at Tyler	0	11,263	0	24,057
University of Houston System				
University of Houston	12,551,896	4,893,924	142,529	53,197,053
University of Houston-Clear Lake	47,172	0	47,172	2,302,378
University of Houston-Downtown	49,290	173,774	0	719,999
University of Houston-Victoria	0	0	0	0
University of North Texas	1,435,067	999,448	472,579	4,961,246
Subtotals	**$32,661,330**	**$31,047,995**	**$9,088,589**	**$352,344,585**
TAMU College of Medicine	0	0	0	62,951
Texas Tech University HSC	0	0	0	711,236
University of North Tx HSC	0	0	0	1,545,576
UT M.D. Anderson Cancer Center	0	0	0	120,963,971
UTMB at Galveston	0	0	0	17,985,990
UTHSC at Houston	0	0	0	7,416,593
UT Health Center at Tyler	0	0	0	102,854
UTHSC at San Antonio	1,047,012	0	0	24,293,966
UT Southwestern Medical Center	0	0	0	15,358,515
Subtotals	**$1,047,012**	**$0**	**$0**	**$188,441,652**
Totals	**$33,708,342**	**$31,047,995**	**$9,088,589**	**$540,786,237**

Shading indicated the five highest expenditures in each field.

Table 12

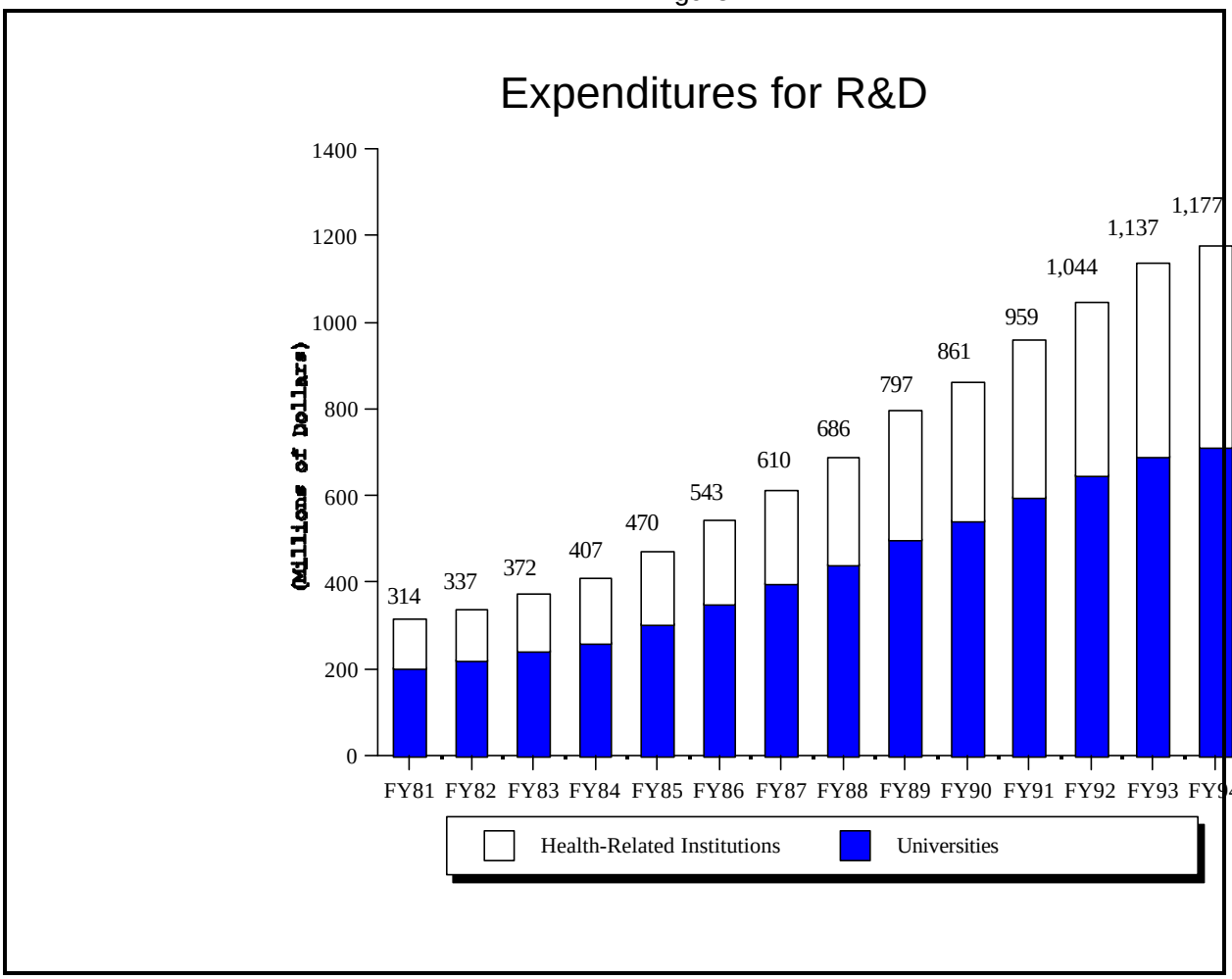
Expenditures for Research & Development by Selection Process			
Institution	Peer Review	Negotiated	Total
Midwestern State	$0	$61,773	$61,773
Stephen F. Austin State	1,529,556	2,634,917	4,164,473
Texas A&M University System			
Prairie View A&M	4,814,761	6,154,571	10,969,332
Tarleton State	970,695	1,510,010	2,480,705
Texas A&M	96,671,901	219,125,408	315,797,309
Texas A&M-Commerce	168,201	230,159	398,360
Texas A&M-Corpus Christi	696,546	858,659	1,555,205
Texas A&M at Galveston	1,676,730	521,085	2,197,815
Texas A&M International	188,267	0	188,267
Texas A&M at Kingsville	3,431,871	2,432,082	5,863,953
Texas A&M-Texarkana	0	0	0
West Texas A&M	105,618	1,129,759	1,235,377
Texas Southern	3,820,649	0	3,820,649
Texas State University System			
Angelo State	0	516,954	516,954
Lamar	2,946,287	275,226	3,221,513
Sam Houston State	803,755	4,534,754	5,338,509
Southwest Texas State	4,887,803	931,912	5,819,715
Sul Ross State	0	316,382	316,382
Sul Ross-Rio Grande	0	1,010	1,010
Texas Tech	9,720,486	19,964,359	29,684,845
Texas Woman's	1,081,000	797,040	1,878,040
The University of Texas System			
UT at Arlington	9,881,600	15,376,779	25,258,379
UT at Austin	176,148,794	65,332,496	241,481,290
UT at Brownsville	61,569	0	61,569
UT at Dallas	14,106,648	0	14,106,648
UT at El Paso	8,519,622	5,197,581	13,717,203
UT-Pan American	1,742,290	329,122	2,071,412
UT of the Permian Basin	350,592	128,934	479,526
UT at San Antonio	4,185,708	1,706,735	5,892,443
UT at Tyler	297,827	97,842	395,669
University of Houston System			
University of Houston	31,098,960	17,579,572	48,678,533
University of Houston-Clear Lake	884,262	2,396,542	3,280,804
University of Houston-Downtown	990,275	0	990,275
University of Houston-Victoria	0	20,561	20,561
University of North Texas	5,799,167	10,735,978	16,535,145
Subtotals	**$387,581,440**	**$380,898,202**	**$768,479,643**
TAMU College of Medicine	4,774,604	589,565	5,364,169
Texas Tech University HSC	3,395,364	4,134,175	7,529,539
University North Tx HSC	5,506,625	992,206	6,498,831
UT M.D. Anderson Cancer Center	47,670,462	73,293,508	120,963,970
UTMB at Galveston	46,038,364	19,351,154	65,389,518
UTHSC at Houston	65,130,442	17,673,052	82,803,494
UT Health Center at Tyler	1,439,098	5,318,479	6,757,577
UTHSC at San Antonio	58,735,351	13,101,843	71,837,194
UT Southwestern Medical Center	109,740,914	20,421,210	130,162,124
Subtotals	**$342,431,224**	**$154,875,192**	**$497,306,416**
Totals	**$730,012,664**	**$535,773,394**	**$1,265,786,060**

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 1996 are probably understated compared to expenditures reported in previous years.

Figure 7



Thirteen institutions reported $17,729,843 in income from research-related intellectual property for a 56.9 percent increase over the $10,656,363 earned in fiscal year 1995. There has been a 168 percent increase since 1993. Table 13 shows the income received at each institution and the number of intellectual properties producing income.

Table 13

Intellectual Property Income

Institution	1993		1994		1995		1996	
	Income	Intellectual Properties	Income	Intellectual Properties	Income	Intellectual Properties	Income	Intellectual Property
Texas A&M	$830,657	43	$1,580,939	60	$2,011,437	71	$3,022,753	80
Texas Tech	20,165	3	92,694	4	8,942	2	89,875	5
UT at Arlington	5,076	1	14,077	1	23,668	2	26,644	3
UT at Austin	975,207	105	994,250	130	930,062	150	1,882,793	150
UT at Dallas	94,449	6	120,022	17	161,683	9	340,085	8
UT at El Paso	24,167	7	0	0	0	0	9,560	0
UT at San Antonio	5,000	1	4,654	1	8,631	2	0	0
University of Houston	334,272	11	78,488	5	44,684	4	75,385	6
University of North Tx	0	0	0	0	0	0	0	8[1]
Stephen F. Austin	0	0	0	0	145,444	1	0	1[1]
Subtotals	**$2,288,993**	**117**	**$2,885,124**	**218**	**$3,334,551**	**241**	**$5,447,095**	**261**
Texas Tech HSC	$0	0	$1,800	1	$2,425	1	1,010	1
UT M.D. Anderson	2,236,111	36	2,293,821	55	3,265,375	88	6,591,326	88
UTMB at Galveston	49,833	13	101,125	10	44,431	9	207,694	9
UTHSC at Houston	351,179	64	510,106	8	286,586	8	707,707	11
UTHSC at San Antonio	272,762	15	249,892	16	738,002	21	1,910,527	12
UT Southwestern	415,800	21	2,669,473	56	2,984,993	107	2,864,484	105
Subtotals	**$4,325,685**	**149**	**$5,826,217**	**146**	**$7,321,812**	**234**	**$12,282,748**	**226**
Totals	**$6,614,678**	**266**	**$8,711,341**	**364**	**$10,656,363**	**475**	**$17,729,843**	**487**

[1] Institution reported intellectual property agreement(s), but income has not yet been realized.

Table 14

Expenditures for Research & Development					
Institution	1993	1994	1995	1996	Percent Change *
Midwestern State	$80,171	$74,320	$96,688	$61,773	-22.95
Stephen F. Austin State	2,648,359	3,401,323	3,806,756	4,164,473	57.25
Texas A&M University System					
Prairie View A&M	7,399,330	8,334,573	7,847,915	10,969,332	48.25
Tarleton State	2,406,781	2,384,563	210,579	2,480,705	3.07
Texas A&M	279,035,858	297,913,831	306,264,926	315,797,309	13.17
Texas A&M Commerce	$260,531	$295,916	$520,564	398,360	52.90
Texas A&M-Corpus Christi	1,630,300	2,257,829	2,474,623	1,555,205	-4.60
Texas A&M at Galveston	2,461,096	4,319,863	2,705,002	2,197,815	-10.70
Texas A&M International	1,670,705	582,465	134,897	325,815	-80.50
Texas A&M-Kingsville	4,060,989	4,289,014	4,955,228	5,863,953	44.40
Texas A&M-Texarkana	0	0	0	0	0.00
West Texas A&M	165,677	293,946	1,158,536	1,235,377	645.65
Texas Southern University	3,024,079	2,611,800	4,274,640	3,820,649	26.34
Texas State University System					
Angelo State	326,412	371,952	361,352	516,954	58.37
Lamar	3,269,454	4,912,179	3,366,485	3,221,513	-1.47
Sam Houston State	1,426,298	2,423,135	5,020,117	5,338,509	274.29
Southwest Texas State	6,819,632	6,601,925	4,759,723	5,819,715	-14.66
Sul Ross State	179,345	160,053	189,984	316,382	76.41
Sul Ross-Rio Grande	0	0	0	1,010	100.00
Texas Tech	25,031,577	25,652,905	26,819,497	29,684,845	18.59
Texas Woman's	1,426,455	1,538,566	1,815,351	1,878,040	31.66
The University of Texas System					
UT at Arlington	12,866,784	13,189,552	15,963,093	25,258,379	96.31
UT at Austin	231,519,087	234,731,250	228,580,592	241,481,290	4.30
UT at Brownsville	30,622	61,083	67,032	61,569	101.06
UT at Dallas	14,112,562	15,245,400	14,667,253	14,106,648	-0.04
UT at El Paso	12,874,022	12,930,966	13,237,765	13,717,203	6.55
UT-Pan American	1,095,440	1,371,231	1,884,826	2,071,412	89.09
UT of the Permian Basin	434,788	771,935	616,261	479,526	10.29
UT at San Antonio	3,780,100	4,387,935	4,693,580	5,892,443	55.88
UT at Tyler	459,724	544,090	590,466	395,669	-13.93
University of Houston System					
University of Houston	51,930,600	40,969,653	43,691,633	48,678,533	-6.26
University of Houston-Clear Lake	6,373,167	6,437,442	4,713,744	3,280,804	-48.52
University of Houston-Downtown	228,150	401,020	305,260	990,275	334.05
University of Houston-Victoria	8,042	1,790	41,206	20,561	155.67
University of North Texas	11,174,722	13,059,140	15,191,332	16,535,145	47.97
Subtotals	**$690,210,859**	**$712,522,645**	**$722,921,906**	**$768,479,643**	**11.34**
Texas A&M College of Medicine	$3,760,356	$3,670,468	5,156,574	5,364,169	42.65
Texas Tech University HSC	6,903,447	7,293,335	8,610,815	7,529,539	9.07
University of North Texas HSC	5,718,672	5,475,374	5,381,475	6,498,831	13.64
UT M.D. Anderson Cancer Center	127,475,327	122,357,296	122,180,937	120,963,970	-5.11
UTMB at Galveston	58,433,211	62,304,763	64,176,482	65,389,518	11.90
UTHSC at Houston	58,786,229	66,431,837	74,664,885	82,803,494	40.86
UT Health Center at Tyler	5,836,646	6,276,576	6,408,456	6,757,577	15.78
UTHSC at San Antonio	65,303,095	71,821,266	76,163,093	71,837,194	10.01
UT Southwestern Medical Center	114,258,471	118,397,601	125,300,683	130,162,124	13.92
Subtotals	**$446,475,454**	**$464,028,516**	**$488,043,400**	**$497,306,416**	**11.38**
Totals	**$1,136,686,313**	**$1,176,551,161**	**$1,210,965,306**	**$1,265,786,060**	**11.36**

* percent change since 1993

Table 15

Expenditures for Federal Research & Development						
Institution	1994		1995		1996	
	Federal R&D Dollars	Federal/ State Ratio	Federal R&D Dollars	Federal/ State Ratio	Federal R&D Dollars	Federal/ State Ratio
Midwestern State	$20,504	1.63	$52,974	7.61	$18,257	1.84
Stephen F. Austin State	453,126	0.21	998,186	0.54	1,687,020	4.27
Texas A&M University System						
Prairie View A&M	5,976,220	4.52	6,527,551	8.77	10,657,992	56.23
Tarleton State	545,785	0.30	655,999	0.46	831,562	0.55
Texas A&M	130,897,171	1.55	132,667,790	1.60	146,969,502	1.72
Texas A&M-Commerce	38,945	0.76	104,996	0.92	146,344	1.39
Texas A&M-Corpus Christi	209,608	0.19	1,246,432	1.49	696,546	6.51
Texas A&M at Galveston	3,667,764	23.10	1,908,463	14.76	803,982	1.35
Texas A&M International	12,166	0.02	69,810	0.00	163,822	6.70
Texas A&M at Kingsville	1,283,395	0.67	1,420,104	0.60	1,808,578	0.70
Texas A&M-Texarkana	0	0.00	0	0.00	0	0.00
West Texas A&M	155,851	1.64	144,435	0.16	100,083	0.10
Texas Southern	2,352,848	17.05	3,508,695	6.90	3,473,776	11.80
Texas State University System						
Angelo State	630	0.000	566	0.00	961	0.00
Lamar	3,087,058	1.84	2,621,487	4.46	2,091,222	2.18
Sam Houston State	1,696,562	5.29	4,204,050	9.44	4,497,667	8.63
Southwest Texas State	4,152,516	4.08	2,536,875	2.21	2,385,620	1.28
Sul Ross State	8,555	0.08	21,349	0.26	137,304	1.23
Sul Ross-Rio Grande					0	0.00
Texas Tech	9,133,751	0.98	9,361,042	0.98	11,354,803	1.10
Texas Woman's	714,259	1.35	906,899	1.61	1,038,389	1.77
The University of Texas System						
UT at Arlington	4,941,723	1.03	6,968,432	1.21	14,975,514	2.14
UT at Austin	149,983,058	4.85	143,938,361	4.33	147,807,148	4.33
UT at Brownsville	0	0.00	314	0.00	0	0.00
UT at Dallas	6,547,037	4.23	5,370,589	4.71	5,263,990	3.74
UT at El Paso	9,256,647	3.14	9,814,970	15.30	10,471,945	6.60
UT-Pan American	952,673	2.63	1,170,033	1.88	1,235,793	1.60
UT of the Permian Basin	189,235	0.73	496,848	13.77	335,908	4.38
UT at San Antonio	2,797,050	4.68	3,110,214	4.80	4,147,788	3.87
UT at Tyler	1,014	0.01	5,582	0.01	4,426	0.01
University of Houston System						
University of Houston	23,480,886	2.04	23,712,932	1.72	26,482,227	1.74
University of Houston-Clear Lake	6,092,912	44.30	4,517,530	56.32	3,009,120	35.37
University of Houston-Downtown	388,270	100.00	291,469	0.00	947,282	0.00
University of Houston-Victoria	0	0.00	28,220	7.65	0	0.00
University of North Texas	3,086,752	0.80	5,076,850	1.17	5,774,282	1.26
Subtotals	**$372,123,971**	**2.27**	**$373,459,047**	**2.26**	**??**	**2.41**
TAMU College of Medicine	2,659,408	4.35	3,697,983	7.32	4,150,998	19.73
Texas Tech University HSC	3,231,757	1.64	3,421,489	1.33	3,024,593	1.39
University North Tx HSC	4,045,159	20.62	3,985,354	16.88	4,846,555	18.89
UT M.D. Anderson Cancer Center	42,416,192	0.80	44,711,435	0.90	42,793,595	0.90
UTMB at Galveston	32,774,744	3.74	33,204,135	3.39	38,322,819	3.36
UTHSC at Houston	46,821,174	9.15	54,761,992	11.14	61,455,947	14.27
UT Health Center at Tyler	1,379,879	0.68	1,238,273	0.61	1,155,693	0.57
UTHSC at San Antonio	51,671,846	6.25	54,432,734	6.36	51,203,151	7.71
UT Southwestern Medical Center	71,468,358	10.61	78,891,948	11.54	81,467,992	11.31
Subtotals	**$256,468,517**	**2.96**	**$278,345,343**	**3.26**	**$206,953,351**	**3.52**

Totals	**$628,592,488**	**2.51**	**$651,804,390**	**2.60**	**$697,740,196**	**2.77**

Table 16

Expenditures of Character of Work and Selection Process								
Institution	1993		1994		1995		1996	
	Dollars	%	Dollars	%	Dollars	%	Dollars	%
Character of Work:								
Basic Research	$845,352,157	74.4	$892,823,303	75.9	$915,292,740	75.6	$950,158,887	75.0
Applied R&D	$291,334,156	25.6	$283,727,858	24.1	$295,736,246	24.4	$315,627,193	25.0
Selection Process:								
Competitive, Peer Review	$709,549,173	62.4	$758,439,134	64.5	$757,736,704	62.6	$730,012,664	57.6
Negotiated or Other	$427,137,140	37.6	$418,112,027	35.5	$453,292,282	37.4	$535,773,394	42.4

Since 1993, research expenditures for medical sciences and for engineering have increased by 35.1 percent and 25.5 percent respectively. Overall federal support for research at Texas public universities and health-related institutions has increased by 16.7 percent.

Table 17

Federal Expenditures for Research & Development by Field				
Field	1993	1994	1995	1996
Agricultural Sciences	$14,384,694	$16,595,836	$16,552,512	$24,038,069
Arts and Humanities	999,726	820,147	1,319,482	1,526,759
Biological/Other Life Sciences	86,763,665	78,085,910	73,998,913	72,602,301
Business Administration	3,153,024	4,229,280	5,311,860	6,786,388
Computer Science	12,181,983	12,872,374	11,520,972	21,617,057
Education	6,621,202	7,078,539	10,582,517	11,893,683
Engineering	94,308,112	102,857,074	98,261,026	118,399,087
Environmental Sciences	72,269,284	78,856,051	81,209,812	76,150,760
Law and Public Administration	311,436	244,868	449,871	1,007,692
Mathematical Sciences	5,382,749	5,567,734	5,701,225	5,341,552
Medical Sciences	194,531,174	225,573,432	250,902,921	262,899,285
Other Non-Science Activities	891,481	718,670	2,042,259	1,288,247
Other Sciences	247,183	178,873	525,411	166,458
Physical Sciences	90,964,116	77,859,512	74,664,364	74,713,237
Psychology	7,200,339	7,331,751	6,607,983	6,543,472

Social Sciences	7,854,946	9,722,437	12,153,262	12,766,149
Totals	**$598,065,112**	**$628,592,488**	**$651,804,390**	**$697,740,196**

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APPENDIX A

This is a Research Expenditures Survey Form which is not available electronically.

APPENDIX B

The following list contains the institutional contacts who submitted the data for this report. They may be contacted directly for additional information regarding research activities on individual campuses.

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