RESEARCH EXPENDITURES

September 1, 1994 - August 31, 1995

Texas Public Universities and
Health-Related Institutions

Texas Higher Education Coordinating Board

Division of Research, Planning and Finance
P. O. Box 12788
Austin, Texas 78711-2788

April 1996

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 efficiently 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 elitism. 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.

TABLE OF CONTENTS

Page

Executive Summary 1

Overview 2

Major Findings 3

Statewide Summary Data 5

Rankings By Field 11

Institutional Data 16

Historical Data 30

Acknowledgments 35

Appendix A
Research Expenditures Instructions
and Survey for Fiscal Year 1994 . . . . . A-1

Appendix B
Institutional Contact Persons B-1

EXECUTIVE SUMMARY

This research expenditures report is based on data provided by each Texas public university and health-related institution for fiscal year 1995 -- September 1, 1994, through August 31, 1995. Highlights include:

- Total research expenditures increased 2.9 percent over fiscal year 1994. Research expenditures in fiscal year 1995 were $1,211,028,986. In fiscal year 1994, the total was $1,176,551,161.

- Royalties, licensing fees, or other transactions involving intellectual property produced through research generated a total of $10,656,363 a 22 percent increase over the $8,711,341 received in fiscal year 1994.

- The federal government provided 53.8 percent of research expenditures and continues to be the largest source of research funds.

- Research expenditures in some areas of special interest include the following: Cancer -- $163,241,346; Energy -- $64,241,759; Biotechnology -- $62,946,401; Food, Fiber, Agricultural Products -- $50,508,379; Environmental Science and Engineering -- $49,394,542.

- The top 10 research institutions together account for more than 89.4 percent of all research expenditures in the state. The top five account for 70.9 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.

While the Coordinating Board attempts to ensure that data are consistent and accurately transcribed for its annual research expenditures report, the agency cannot verify the accuracy of the data provided by the institutions. Institutions are asked to ensure that the data reported under this provision are consistent with data in their Annual Financial Reports, and a set of definitions are 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 multidisciplinary with implications for many different areas.

This and previous editions of Research Expenditures Reports are available from the Texas Higher Education Coordinating Board, Educational Data Center, P.O. Box 12788, Austin, Texas 78711-2788.

This report marks the 29th edition in the series.

MAJOR FINDINGS

Total research expenditures at Texas public institutions of higher education increased by 2.9 percent during fiscal year 1995, continuing a long-term growth trend. Expenditures increased by 1.5 percent at public universities and by 5.2 percent at public health-related institutions.

As in most states, research expenditures were concentrated in a relatively small number of Texas higher education institutions. Collectively, the top five institutions in research spending accounted for 70.9 percent of total research expenditures. The top 10 institutions accounted for more than 89.4 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 1992 Rank	FY 1993 Rank	FY 1994 Rank	FY 1995 Rank
Texas A&M University (Including Texas A&M Services)	1	1	1	1
UT at Austin	2	2	2	2
UT Southwestern Medical Center	4	4	4	3
UT M.D. Anderson Cancer Center	3	3	3	4
UTHSC at San Antonio	6	5	5	5
UTHSC at Houston	5	6	6	6
UTMB at Galveston	7	7	7	7
University of Houston	8	8	8	8
Texas Tech University	9	9	9	9
UT Arlington	12	12	11	10

The federal government funded 53.8 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, a National Science Foundation publication, *Science & Engineering Indicators - 1993*, reported 55 percent of national research was funded by the federal government in 1993. State government in Texas provided 20.7 percent of all research expenditures in public higher education.

[1]Academic institutions generally comprise 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
UT Southwestern Medical Center	3	11.54	1
UTHSC at Houston	6	11.14	2
UTHSC at San Antonio	5	6.36	3
UT at Austin	2	4.33	4
UTMB at Galveston	7	3.39	5
University of Houston	8	1.72	6
Texas A&M University (Including Texas A&M Services)	1	1.60	7
UT at Arlington	10	1.21	8
Texas Tech University	9	0.98	9
UT M.D. Anderson Cancer Center	4	0.90	10

Medical sciences, accounting for 35 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 84.6 percent of all reported research expenditures.

Despite pressures to move into more applied research, support of basic research totaled 75.6 percent of research expenditures. However, the definition of applied research varied greatly between institutions. Some institutions consider all university research as basic research.

Institutions reported that 62.6 percent of their research expenditures resulted from competitive peer-review selection processes.

Institutions earned $10,656,363 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 on the data collection 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. 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			
	Conduct of R & D	Other Sponsored Programs	Total
Public Universities	$722,985,586	$93,306,336	$816,291,922
Public Health-Related Institutions	488,043,400	80,197,007	568,240,407
Totals	**$1,211,028,986**	**$173,503,343**	**$1,384,532,329**

Figure 1

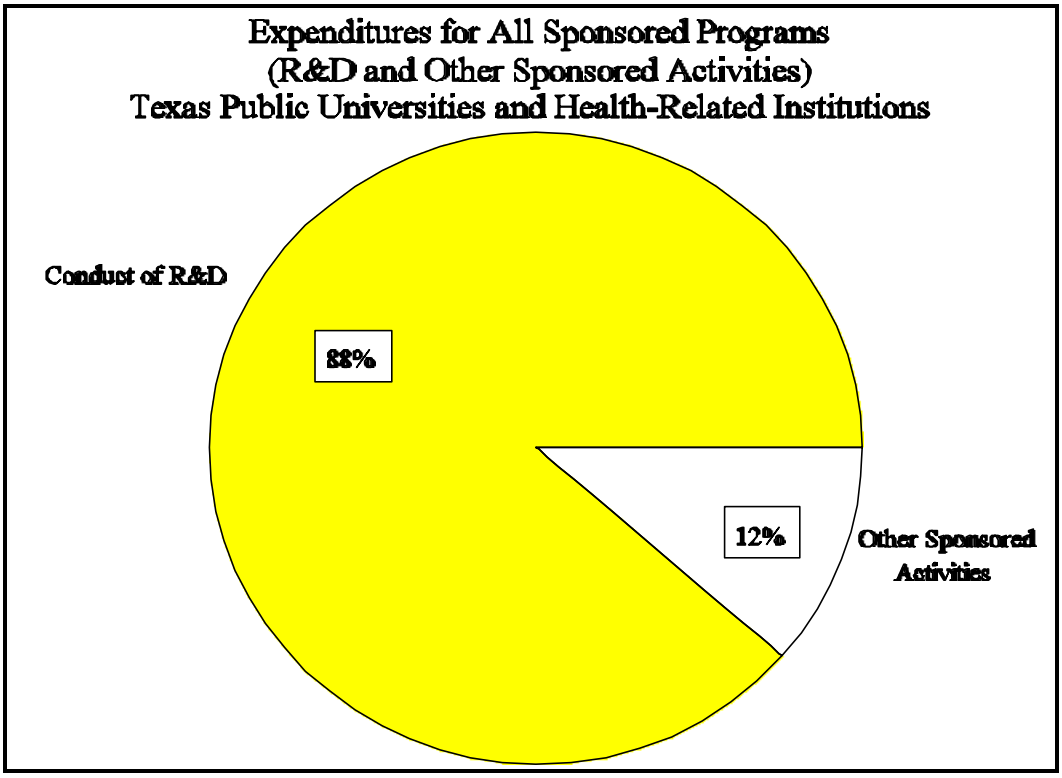


Figure 2

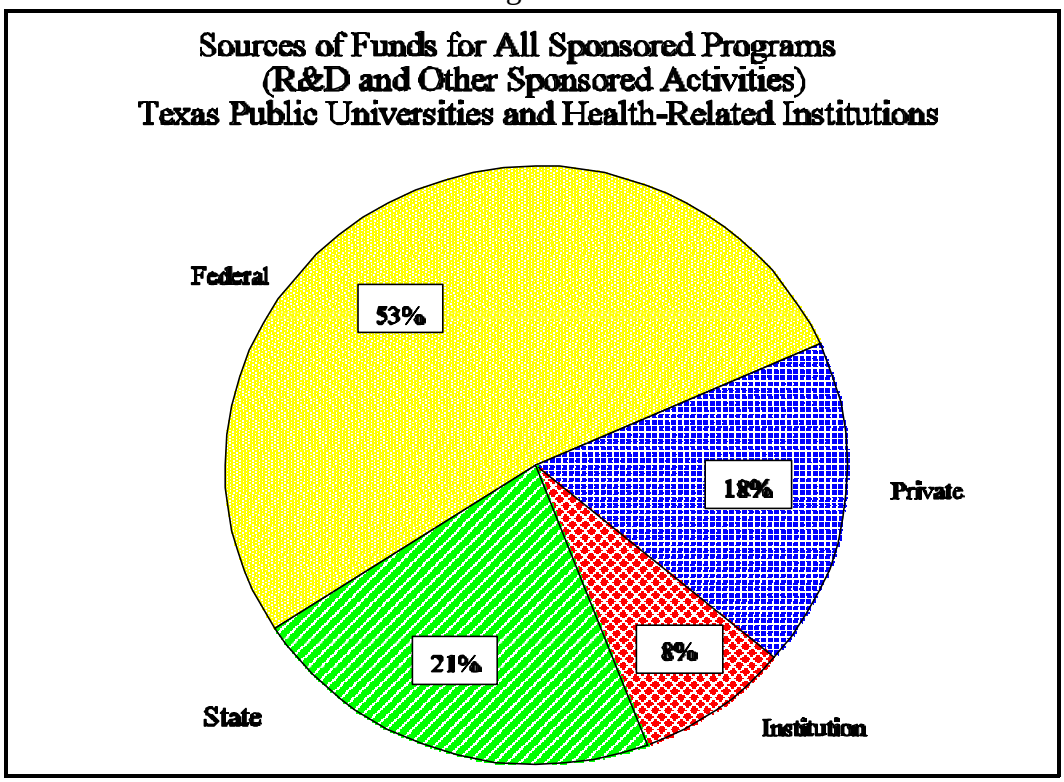


Figure 3

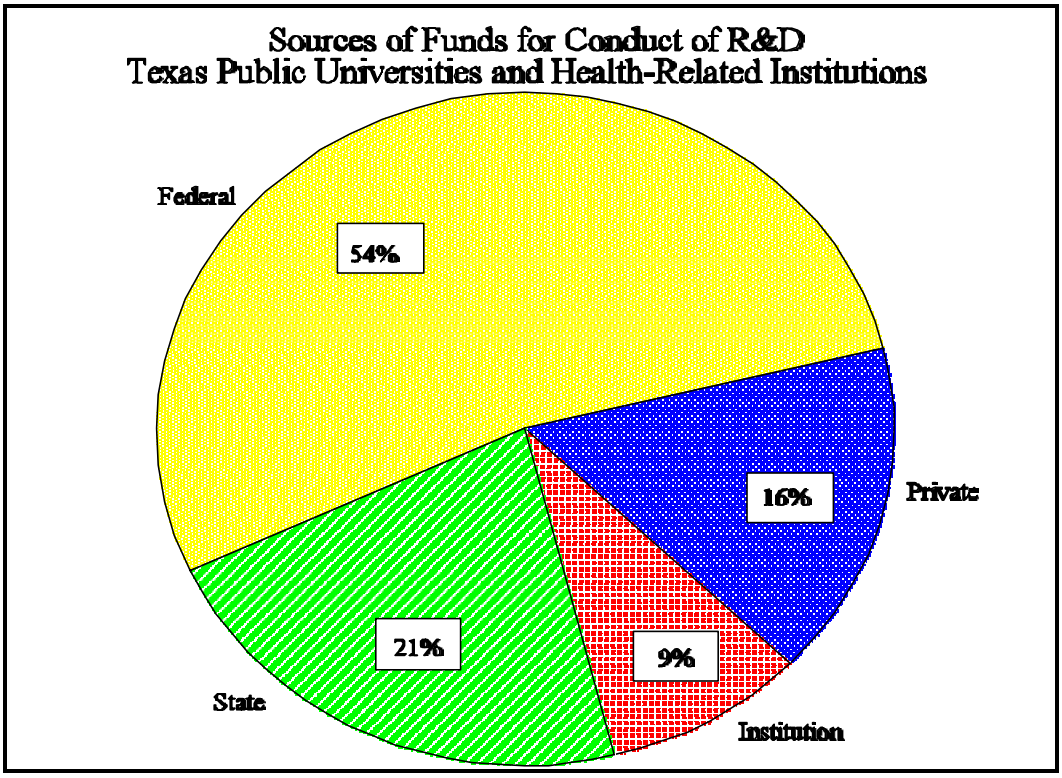


Figure 4

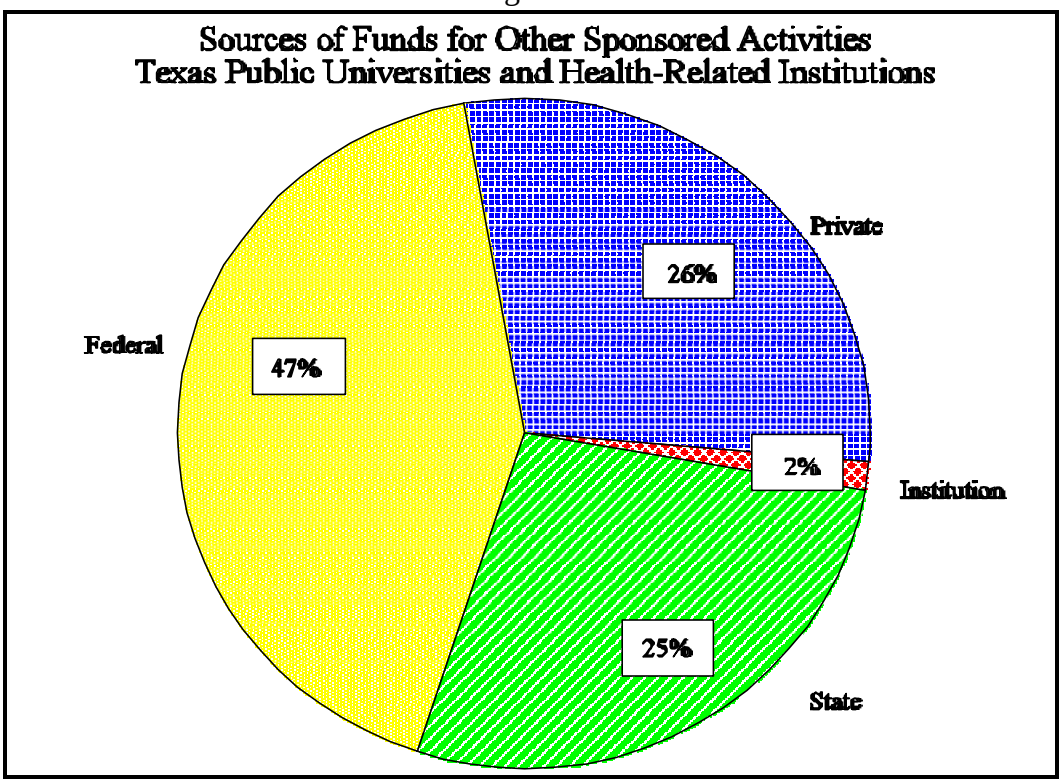


Table 4 indicates expenditures in the 16 different fields defined in Appendix A. The Coordinating Board's report instructions directed institutions to assign project expenditures to only one field to avoid the possibility of double counting.

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 do basic research in biological sciences and report expenditures in that field rather than in agricultural sciences.

Table 4

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

Field	Federal	State	Institution Controlled	Private	Total
Medical Sciences	$250,902,921	$56,933,853	$21,327,998	$94,482,131	$423,646,903
Engineering	98,261,026	44,857,725	26,584,065	30,699,700	200,402,516
Bio/Other Life Sciences	73,998,913	59,335,870	18,996,136	17,873,778	170,204,697
Physical Sciences	74,664,364	18,845,479	5,527,689	16,505,329	115,542,861
Environmental Sciences	81,209,812	14,241,723	3,676,672	16,134,204	115,262,411
Agricultural Sciences	16,552,512	24,619,136	12,304,467	8,077,979	61,554,094
Social Sciences	12,153,262	10,772,968	5,740,223	3,648,546	32,314,999
Computer Science	11,520,972	2,252,983	3,673,321	3,280,560	20,727,836
Education	10,582,517	5,533,393	2,257,402	1,401,349	19,774,661
Mathematical Sciences	5,701,225	4,655,439	1,017,100	671,969	12,045,733
Business Administration	5,311,860	1,909,715	1,700,486	4,026,531	12,948,592
Psychology	6,607,983	968,187	899,801	442,396	8,918,367
Arts and Humanities	1,319,482	657,101	2,847,277	1,366,295	6,190,155
Other Sciences	525,411	2,393,417	406,800	427,343	3,752,971
Law/Public Administration	449,871	1,054,017	3,638	995,689	2,503,215
Other Non-Science Activities	2,042,259	1,716,053	1,112,278	368,385	5,238,975
Totals	**$651,804,390**	**$250,747,059**	**$108,075,353**	**$200,402,184**	**$1,211,028,986**

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 Conduct of Research & Development in Areas of Special Interest
Texas Public Universities and Health-Related Institutions

Functional Area	Federal	State	Institution Controlled	Private	Total
Cancer Research	$74,889,912	$52,750,302	$12,694,787	$22,906,345	163,241,346
Energy	35,164,151	14,278,490	1,958,114	12,841,004	64,241,759
Biotechnology	20,903,470	22,585,715	11,175,055	8,282,161	62,946,401
Food, Fiber, Agriculture Products	12,616,999	23,978,125	6,460,182	7,453,073	50,508,379
Environmental Science & Engineering	30,989,774	10,534,535	2,783,743	5,086,490	49,394,542
Aerospace Technology	24,255,995	592,400	2,579,370	1,343,392	28,771,157
Materials Science & Engineering	16,881,434	9,504,489	1,278,688	3,983,243	31,647,854
Microelectronics & Computer Technology	18,533,060	4,996,878	2,362,971	4,158,129	30,051,038
Manufacturing Technology	14,289,744	2,670,453	507,137	2,389,514	19,856,848
AIDS Research	6,951,087	941,050	151,303	1,448,633	9,492,073
Water Resources	1,657,072	1,971,100	556,332	910,280	5,094,784
Totals	**$257,132,698**	**$144,803,537**	**$42,507,682**	**$70,802,264**	**$515,246,181**

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 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 basic and applied research are included in Appendix A.

Table 6

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

Character of Work	Federal	State	Institution Controlled	Private	Total
Basic Research	$546,815,110	$179,732,610	$67,170,799	$121,574,221	$915,292,740
Applied Research & Development	104,989,280	71,014,449	40,904,554	78,827,963	295,736,246
Totals	**$651,804,390**	**$250,747,059**	**$108,075,353**	**$200,402,184**	**$1,211,028,986**

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 Conduct of Research & Development by Selection Process and Source
Texas Public Universities and Health-Related Institutions

Selection Process	Federal	State	Institution Controlled	Private	Total
Competitive, peer review	$590,401,582	$51,893,742	$24,635,649	$90,805,731	$757,736,704
Negotiated or other selection process	61,402,808	198,853,317	83,439,704	109,596,453	453,292,282
Totals	**$651,804,390**	**$250,747,059**	**$108,075,353**	**$200,402,184**	**$1,211,028,986**

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	$44,986,312
Texas Tech University	$ 6,964,494
Prairie View A&M University	$ 3,627,711
Texas A&M University-Kingsville	$ 2,755,147
Stephen F. Austin State University	$ 1,869,929

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	$3,262,136
University of Houston	$ 862,928
The University of Texas at Dallas	$ 476,767
Texas A&M University	$ 440,156
University of North Texas	$ 429,851

Biological and other life sciences includes those life sciences (apart from 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	$62,142,191
UT M.D. Anderson Cancer Center	$54,416,046
The University of Texas at Austin	$16,739,319
UT Health Science Center at Houston	$14,756,465
University of Houston	$ 2,943,173

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	$4,785,599
Texas A&M University	$2,406,741
Texas Tech University	$2,122,710
University of Houston-Clear Lake	$ 624,448
University of North Texas	$ 581,949

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

Institution	Expenditures
The University of Texas at Austin	$10,063,866
Texas A&M University	$ 4,823,173
The University of Texas at Arlington	$ 1,788,830
University of Houston	$ 808,400
The University of Texas at Dallas	$ 725,536

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

Institution	Expenditures
Texas A&M University	$8,787,670
University of North Texas	$3,167,961
The University of Texas at Austin	$2,054,159
Southwest Texas State University	$1,851,364
University of Houston	$1,133,112

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

Institution	Expenditures
The University of Texas at Austin	$90,774,669
Texas A&M University	$70,420,152
The University of Texas at Arlington	$ 9,758,391
University of Houston	$ 8,650,652
Texas Tech University	$ 7,186,554

Environmental sciences is concerned with the gross, nonbiological properties (with one exception) of the solar system that directly or indirectly affect human survival and welfare. They include atmospheric sciences, geological sciences, and oceanography. The one exception is that expenditures for studies pertaining to aquatic life are reported as support of oceanography and not biology.

Institution	Expenditures
Texas A&M University	$71,853,306
The University of Texas at Austin	$24,862,143
Sam Houston State University	$ 4,062,270
The University of Texas at El Paso	$ 2,749,256
Tarleton State University	$ 2,010,405

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	$2,154,059
University of Houston	$ 200,684
University of North Texas	$ 43,077
Texas A&M at Galveston	$ 33,563
Texas Tech University	$ 27,903

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

Institution	Expenditures
The University of Texas at Austin	$2,812,711
UT M.D. Anderson Cancer Center	$2,448,842
University of North Texas	$1,959,643
Texas A&M University	$1,727,403
University of Houston	$ 1,544,522

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

Institution	Expenditures
UT Southwestern Medical Center at Dallas	$125,044,189
UT Health Science Center at San Antonio	$ 76,163,093
UT Medical Branch at Galveston	$ 64,043,382
UT M.D. Anderson Cancer Center	$ 62,307,464
UT Health Science Center at Houston	$ 59,908,420

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	$54,607,592
Texas A&M University	$18,928,373
University of Houston	$18,371,340
The University of Texas at Dallas	$ 4,991,903
Texas Tech University	$ 3,626,956

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

Institution	Expenditures
The University of Texas at Austin	$3,325,209
University of Houston	$2,564,458
Texas A&M University	$1,433,532
University of North Texas	$ 912,733
The University of Texas at Dallas	$ 216,780

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 sciences, and sociology.

Institution	Expenditures
Texas A&M University	$14,776,584
The University of Texas at Austin	$ 4,794,884
The University of Texas at Dallas	$ 3,253,556
Texas Tech University	$ 2,351,385
The University of Texas at El Paso	$ 1,935,490

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

Figure 5

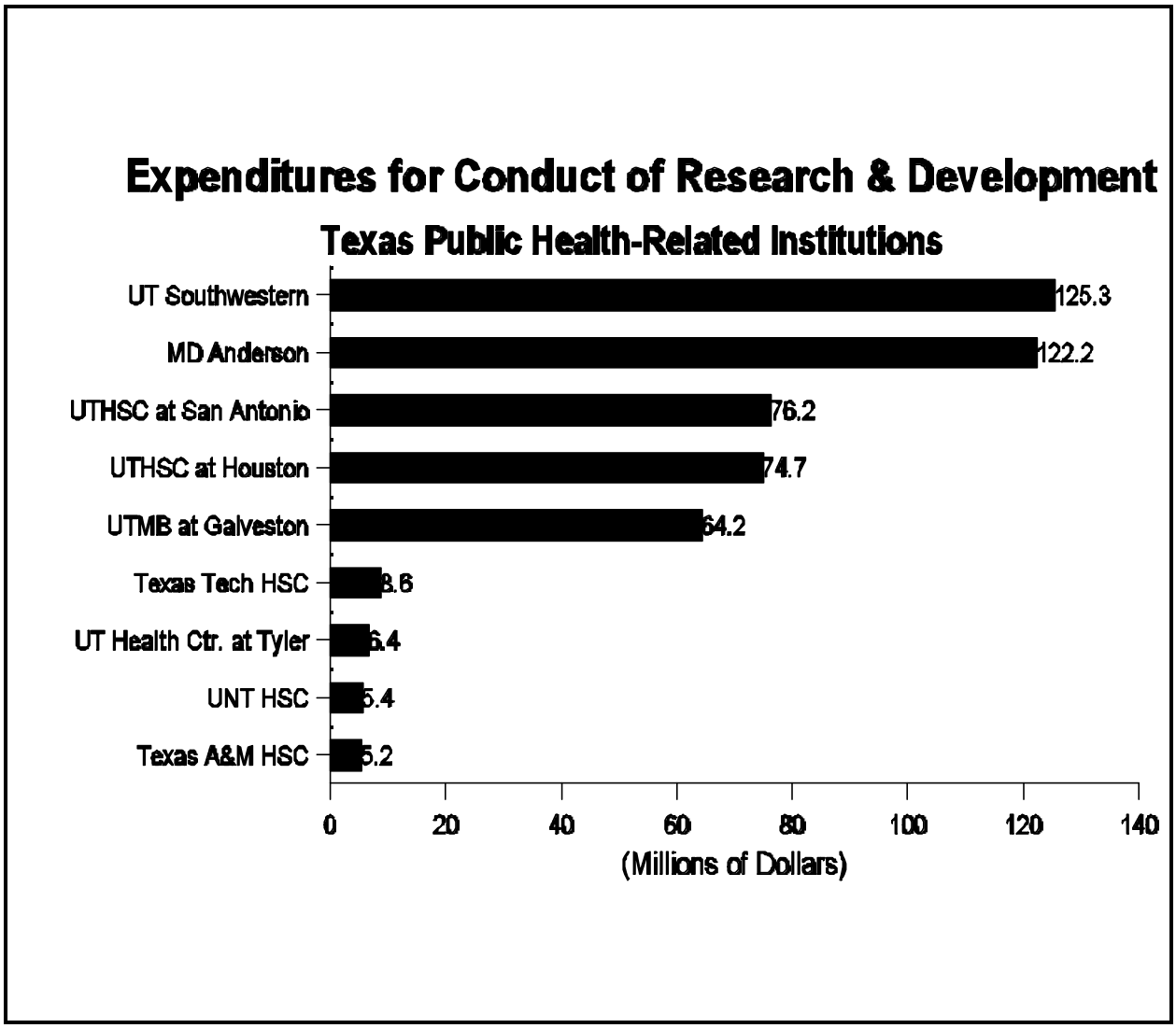


Figure 6

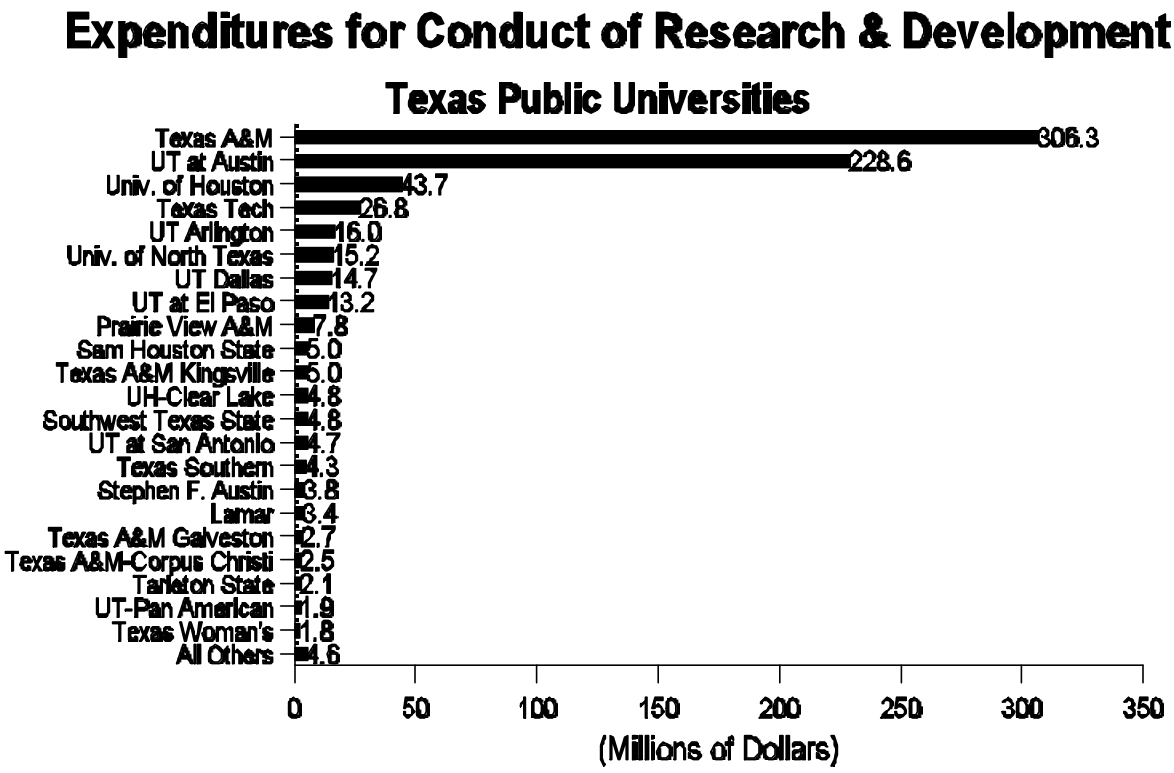

Expenditures for Conduct of Research & Development
Texas Public Universities
Texas A&M
UT at Austin
Univ. of Houston
Texas Tech
UT Arlington
Univ. of North Texas
UT Dallas
UT at El Paso
Prairie View A&M
Sam Houston State
Texas A&M Kingsville
UH-Clear Lake
Southwest Texas State
UT at San Antonio
Texas Southern
Stephen F. Austin
Lamar
Texas A&M Galveston
Texas A&M-Corpus Christi
Tarleton State
UT-Pan American
Texas Woman's
All Others
306.3
228.6
43.7
26.8
16.0
15.2
14.7
13.2
7.8
5.0
5.0
4.8
4.8
4.7
4.3
3.8
3.4
2.7
2.5
2.1
1.9
1.8
4.6
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
East Texas State	$104,996	$5,393,375	$114,277	$36,989
East Texas State/Texarkana	0	0	0	2,696
Lamar	2,620,487	404,892	587,394	758,588
Midwestern State	52,974	0	6,958	0
Stephen F. Austin State	998,186	0	1,844,168	0
Texas A&M University System				
Prairie View A&M	6,527,551	0	744,588	0
Tarleton State	655,999	0	1,419,738	0
Texas A&M	132,667,790	363,986	82,916,010	189,159
Texas A&M-Corpus Christi	1,246,432	0	837,518	0
Texas A&M at Galveston	1,908,463	3,026,746	129,341	0
Texas A&M International	69,810	0	0	0
Texas A&M-Kingsville	1,420,104	2,589,493	2,379,551	136,068
West Texas A&M	144,435	3,202,453	894,830	0
Texas Southern	3,508,695	5,495,573	508,361	742,723
Texas State University System				
Angelo State	566	0	302,462	0
Sam Houston State	4,204,050	0	445,567	0
Southwest Texas State	2,536,875	2,480,414	1,147,660	1,622,862
Sul Ross State	21,349	0	81,682	0
Texas Tech	9,361,042	2,302,348	9,564,513	517,297
Texas Woman's	906,899	0	561,655	0
The University of Texas System				
UT at Arlington	6,968,432	0	5,766,723	0
UT at Austin	143,938,361	0	33,211,631	0
UT at Brownsville	314	0	66,718	0
UT at Dallas	5,370,589	1,238,729	1,139,808	128,865
UT at El Paso	9,814,970	17,545,825	641,615	1,462,335
UT-Pan American	1,170,033	0	623,639	0
UT of the Permian Basin	496,848	0	36,082	278,019
UT at San Antonio	3,110,214	5,693,177	648,573	2,371,486
UT at Tyler	5,582	0	547,547	0
University of Houston System				
UH	23,712,932	3,265,653	13,807,846	3,726,890
UH-Clear Lake	4,517,530	313,649	80,215	441,566
UH-Downtown	291,469	137,353	0	0
UH-Victoria	28,220	0	3,688	0
University of North Texas	5,076,850	1,640,793	4,345,597	67,743
Subtotals	**$373,459,047**	**$55,094,459**	**$165,405,955**	**$12,483,286**
Texas A&M HSC	$3,697,983	$0	$505,243	$0
Texas Tech HSC	3,421,489	0	2,570,409	0
UNT HSC	3,985,354	0	236,141	0
UT M.D. Anderson Cancer Ctr.	44,711,435	0	49,910,498	0
UTMB at Galveston	33,204,135	9,988,053	9,784,879	0
UTHSC at Houston	54,761,992	0	4,915,549	0
UT Health Ctr. at Tyler	1,238,273	0	2,020,669	0
UTHSC at San Antonio	54,432,734	8,751,021	8,561,317	17,494,154
UT Southwestern Medical Ctr.	78,891,948	8,040,337	6,836,399	13,334,180
Subtotals	**$278,345,343**	**$26,779,411**	**$85,341,104**	**$30,828,334**
Totals	**$651,804,390**	**$81,873,870**	**$250,747,059**	**$43,311,620**

Shading indicates the five highest expenditures.

Table 8 - continued

Total Expenditures for Sponsored Programs by Source of Funds				
Institution	Institutionally Controlled		Private	
	R&D	Other	R&D	Other
East Texas State	$8,748	$27,853	$292,543	$346,908
East Texas State/Texarkana	0	0	0	0
Lamar	0	150,584	158,604	174,098
Midwestern State	0	0	36,756	0
Stephen F. Austin State	202,424	0	761,978	0
Texas A&M University System				
Prairie View A&M	0	0	575,776	0
Tarleton State	0	0	29,842	0
Texas A&M	52,121,024	186,758	38,560,102	373,778
Texas A&M-Corpus Christi	0	0	390,673	0
Texas A&M at Galveston	287,999	0	379,199	1,565
Texas A&M International	61,562	0	3,525	0
Texas A&M-Kingsville	0	0	1,155,573	403,940
West Texas A&M	2,265	0	117,006	0
Texas Southern	107,159	255,065	150,425	2,540,293
Texas State University System				
Angelo State	0	0	58,324	0
Sam Houston State	163,151	0	207,349	0
Southwest Texas State	610,493	0	464,695	1,103,828
Sul Ross State	0	0	86,953	0
Texas Tech	490,832	0	7,403,110	4,637,796
Texas Woman's	0	0	346,797	0
The University of Texas System				
UT at Arlington	22,821	0	3,205,117	0
UT at Austin	19,176,835	0	32,253,765	0
UT at Brownsville	0	0	0	0
UT at Dallas	3,690,401	0	4,466,455	0
UT at El Paso	2,202,617	95,210	578,563	6,926,087
UT-Pan American	28,762	0	62,392	0
UT of the Permian Basin	42,936	46,973	40,395	17,319
UT at San Antonio	365,418	10,269	569,375	576,077
UT at Tyler	17,594	0	19,743	0
University of Houston System				
UH	1,076,135	79,863	5,094,720	2,649,956
UH-Clear Lake	0	0	179,679	1,134
UH-Downtown	13,791	0	0	74
UH-Victoria	9,298	0	0	0
University of North Texas	2,582,987	2,008,986	3,185,898	3,114,177
Subtotals	**$83,285,252**	**$2,861,561**	**$100,835,332**	**$22,867,030**
Texas A&M HSC	$192,497	$0	$760,851	$53,142
Texas Tech HSC	607,984	0	2,010,933	0
UNT HSC	299,267	0	860,713	0
UT M.D. Anderson Cancer Ctr.	12,181,408	1,726	15,377,596	0
UTMB at Galveston	6,592,159	0	14,595,309	0
UTHSC at Houston	1,059,981	0	13,927,363	0
UT Health Ctr. at Tyler	2,296,394	0	853,120	0
UTHSC at San Antonio	196,746	0	12,972,296	6,173,138
UT Southwestern Medical Ctr.	1,363,665	0	38,208,671	16,361,256
Subtotals	**$24,790,101**	**$1,726**	**$99,566,852**	**$22,587,536**
Totals	**$108,075,353**	**$2,863,287**	**$200,402,184**	**$45,454,566**

Shading indicates the five highest expenditures.

Table 8 - continued

Total Expenditures for Sponsored Programs by Source of Funds			
Institution	Total		
	R&D	Other	Total
East Texas State	$520,564	$5,805,125	$6,325,689
East Texas State/Texarkana	0	2,696	2,696
Lamar	3,366,485	1,488,162	4,854,647
Midwestern State	96,688	0	96,688
Stephen F. Austin State	3,806,756	0	3,806,756
Texas A&M University System			
Prairie View A&M	7,847,915	0	7,847,915
Tarleton State	2,105,579	0	2,105,579
Texas A&M	306,264,926	1,113,681	307,378,607
Texas A&M-Corpus Christi	2,474,623	0	2,474,623
Texas A&M at Galveston	2,705,002	3,028,311	5,733,313
Texas A&M International	134,897	0	134,897
Texas A&M-Kingsville	4,955,228	3,129,501	8,084,729
West Texas A&M	1,158,536	3,202,453	4,360,989
Texas Southern	4,274,640	9,033,654	13,308,294
Texas State University System			
Angelo State	361,352	0	361,352
Sam Houston State	5,020,117	0	5,020,117
Southwest Texas State	4,759,723	5,207,104	9,966,827
Sul Ross State	189,984	0	189,984
Texas Tech	26,819,497	7,457,441	34,276,938
Texas Woman's	1,815,351	0	1,815,351
The University of Texas System			
UT at Arlington	15,963,093	0	15,963,093
UT at Austin	228,580,592	0	228,580,592
UT at Brownsville	67,032	0	67,032
UT at Dallas	14,667,253	1,367,594	16,034,847
UT at El Paso	13,237,765	26,029,457	39,267,222
UT-Pan American	1,884,826	0	1,884,826
UT of the Permian Basin	616,261	342,311	958,572
UT at San Antonio	4,693,580	8,651,009	13,344,589
UT at Tyler	590,466	0	590,466
University of Houston System			
UH	43,691,633	9,722,362	53,413,995
UH-Clear Lake	4,777,424	756,349	5,533,773
UH-Downtown	305,260	137,427	442,687
UH-Victoria	41,206	0	41,206
University of North Texas	15,191,332	6,831,699	22,023,031
Subtotals	**$722,985,586**	**$93,306,336**	**$816,291,922**
Texas A&M HSC	$5,156,574	$53,142	$5,209,716
Texas Tech HSC	8,610,815	0	8,610,815
UNT HSC	5,381,475	0	5,381,475
UT M.D. Anderson Cancer Ctr.	122,180,937	1,726	122,182,663
UTMB at Galveston	64,176,482	9,988,053	74,164,535
UTHSC at Houston	74,664,885	0	74,664,885
UT Health Ctr. at Tyler	6,408,456	0	6,408,456
UTHSC at San Antonio	76,163,093	32,418,313	108,581,406
UT Southwestern Medical Ctr.	125,300,683	37,735,773	163,036,456
Subtotals	**$488,043,400**	**$80,197,007**	**$568,240,407**
Totals	**$1,211,028,986**	**$173,503,343**	**$1,384,532,329**

Shading indicates the five highest expenditures.

Table 9

Expenditures for Conduct of Research & Development by Field				
Institution	Agricultural Sciences	Arts and Humanities	Biological and Other Life Sciences	Business Administration
East Texas State	$113,815	$6,200	$2,000	$8,376
East Texas State/Texarkana	0	0	0	0
Lamar	1,000	17,307	46,635	430,629
Midwestern State	0	0	70,602	0
Stephen F. Austin State	1,869,929	10,059	820,715	30,466
Texas A&M University System				
Prairie View A&M	3,627,711	20,252	401,120	0
Tarleton State	0	2,740	0	24,949
Texas A&M	44,986,312	440,156	62,142,191	2,406,741
Texas A&M-Corpus Christi	0	13,757	6,652	11,241
Texas A&M at Galveston	0	5,549	705,598	0
Texas A&M International	0	2,532	1,000	45,438
Texas A&M-Kingsville	2,755,147	0	154,632	464
West Texas A&M	660,927	36,877	77,508	9,744
Texas Southern	0	0	1,487,834	0
Texas State University System				
Angelo State	243,721	0	34,139	24,397
Sam Houston State	130,298	22,117	11,967	39,836
Southwest Texas State	9,707	21,461	753,812	16,410
Sul Ross State	33,944	0	126,757	0
Texas Tech	6,964,494	35,465	2,742,907	2,122,710
Texas Woman's	0	20,406	1,222,191	3,310
The University of Texas System				
UT at Arlington	0	221,154	361,708	70,453
UT at Austin	0	3,262,136	16,739,319	4,785,599
UT at Brownsville	0	0	929	1,268
UT at Dallas	0	476,767	1,256,578	396,951
UT at El Paso	0	80,132	2,520,679	416,081
UT-Pan American	7,893	0	174,351	106,655
UT of the Permian Basin	0	0	13,995	100,756
UT at San Antonio	0	44,866	1,851,148	297,955
UT at Tyler	0	7,995	20,235	9,180
University of Houston System				
UH	0	862,928	2,943,173	380,165
UH-Clear Lake	24,471	1,379	117,559	624,448
UH-Downtown	0	0	0	0
UH-Victoria	0	3,532	0	2,421
University of North Texas	40,741	429,851	748,310	581,949
Subtotals	**$61,470,110**	**$6,045,618**	**$97,556,244**	**$12,948,592**
Texas A&M Coll of Medicine	$83,984	$11,437	$377,144	$0
Texas Tech HSC	0	0	2,842,304	0
UNT HSC	0	0	0	0
UT M.D. Anderson Cancer Ctr.	0	0	54,416,046	0
UTMB at Galveston	0	133,100	0	0
UTHSC at Houston	0	0	14,756,465	0
UT Health Ctr. at Tyler	0	0	0	0
UTHSC at San Antonio	0	0	0	0
UT Southwestern Medical Ctr.	0	0	256,494	0
Subtotals	**$83,984**	**$144,537**	**$72,648,453**	**$0**
Totals	**$61,554,094**	**$6,190,155**	**$170,204,697**	**$12,948,592**

Shading indicates the five highest expenditures in each field.

Table 9 - continued

Expenditures for Conduct of Research & Development by Field				
Institution	Computer Science	Education	Engineering	Environmental Sciences
East Texas State	$750	$222,584	$0	$0
East Texas State/Texarkana	0	0	0	0
Lamar	47,280	136,576	504,619	1,009,783
Midwestern State	0	0	0	0
Stephen F. Austin State	55,552	500,200	0	11,205
Texas A&M University System				
Prairie View A&M	113,209	318,550	2,547,574	0
Tarleton State	0	0	0	2,010,405
Texas A&M	4,823,173	8,787,670	70,420,152	71,853,306
Texas A&M-Corpus Christi	0	11,894	0	1,586,369
Texas A&M at Galveston	0	0	17,893	325,290
Texas A&M International	0	4,303	0	0
Texas A&M-Kingsville	164,071	1,234	1,335,259	329,395
West Texas A&M	4,463	9,909	281,080	0
Texas Southern	0	0	54,770	582,003
Texas State University System				
Angelo State	0	0	0	0
Sam Houston State	4,930	9,278	0	4,062,270
Southwest Texas State	29,716	1,851,364	2,356	0
Sul Ross State	0	2,786	0	15,609
Texas Tech	285,921	374,587	7,186,554	702,941
Texas Woman's	0	9,816	0	0
The University of Texas System				
UT at Arlington	1,788,830	0	9,758,391	382,576
UT at Austin	10,063,866	2,054,159	90,774,669	24,862,143
UT at Brownsville	0	3,798	0	54,166
UT at Dallas	725,536	21,767	835,600	1,517,346
UT at El Paso	292,513	36,900	3,671,644	2,749,256
UT-Pan American	79,245	354,351	120,879	30,899
UT of the Permian Basin	0	0	328,911	156,582
UT at San Antonio	217,602	84,544	624,599	177,348
UT at Tyler	13,455	477,444	0	16,668
University of Houston System				
UH	808,400	1,133,112	8,650,652	1,163,422
UH-Clear Lake	693,936	88,938	2,780,054	63,680
UH-Downtown	5,049	0	0	0
UH-Victoria	29,327	1,978	0	0
University of North Texas	481,012	3,167,961	506,860	1,572,776
Subtotals	**$20,727,836**	**$19,665,703**	**$200,402,516**	**$115,235,438**
Texas A&M HSC	$0	$0	$0	$0
Texas Tech HSC	0	0	0	0
UNT HSC	0	108,958	0	0
UT M.D. Anderson Cancer Ctr.	0	0	0	0
UTMB at Galveston	0	0	0	0
UTHSC at Houston	0	0	0	0
UT Health Ctr. at Tyler	0	0	0	26,973
UTHSC at San Antonio	0	0	0	0
UT Southwestern Medical Ctr.	0	0	0	0
Subtotals	**$0**	**$108,958**	**$0**	**$26,973**
Totals	**$20,727,836**	**$19,774,661**	**$200,402,516**	**$115,262,411**

Shading indicates the five highest expenditures in each field.

Table 9 - continued

Expenditures for Conduct of Research & Development by Field				
Institution	Law and Public Administration	Mathematical Sciences	Medical Sciences	Physical Sciences
East Texas State	$0	$0	$0	$153,293
East Texas State/Texarkana	0	0	0	0
Lamar	0	7,820	72,146	294,672
Midwestern State	0	0	2,218	22,696
Stephen F. Austin State	0	15,297	409	31,159
Texas A&M University System				
Prairie View A&M	0	1,373	45,404	772,722
Tarleton State	0	16,718	7,000	26,390
Texas A&M	7	1,727,403	3,539,326	18,928,373
Texas A&M-Corpus Christi	0	0	0	39,523
Texas A&M at Galveston	33,563	0	0	1,599,208
Texas A&M International	800	1,000	1,360	2,600
Texas A&M-Kingsville	0	4,953	10,338	24,355
West Texas A&M	17,437	5,977	6,165	36,999
Texas Southern	0	0	105,718	755,412
Texas State University System				
Angelo State	0	0	995	50,545
Sam Houston State	0	104,128	0	424,571
Southwest Texas State	0	40,499	190,486	384,322
Sul Ross State	0	0	0	0
Texas Tech	27,903	350,811	0	3,626,956
Texas Woman's	0	154,852	287,560	65,882
The University of Texas System				
UT at Arlington	22,943	73,118	339,714	2,543,422
UT at Austin	2,154,059	2,812,711	5,813,369	54,607,592
UT at Brownsville	0	0	0	1,653
UT at Dallas	0	181,587	792,882	4,991,903
UT at El Paso	0	115,371	40,088	1,216,719
UT-Pan American	2,742	75,845	450,354	171,634
UT of the Permian Basin	0	0	0	16,017
UT at San Antonio	0	233,110	0	250,761
UT at Tyler	0	0	24,664	0
University of Houston System				
UH	200,684	1,544,522	2,310,777	18,371,340
UH-Clear Lake	0	137,928	19,437	20,703
UH-Downtown	0	32,225	0	247,350
UH-Victoria	0	0	0	0
University of North Texas	43,077	1,959,643	68,424	2,800,505
Subtotals	**$2,503,215**	**$9,596,891**	**$14,128,834**	**$112,479,277**
Texas A&M Coll of Medicine	$0	$0	$4,629,010	$54,999
Texas Tech HSC	0	0	5,768,511	0
UNT HSC	0	0	5,272,517	0
UT M.D. Anderson Cancer Ctr.	0	2,448,842	62,307,464	3,008,585
UTMB at Galveston	0	0	64,043,382	0
UTHSC at Houston	0	0	59,908,420	0
UT Health Ctr. at Tyler	0	0	6,381,483	0
UTHSC at San Antonio	0	0	76,163,093	0
UT Southwestern Medical Ctr.	0	0	125,044,189	0
Subtotals	**$0**	**$2,448,842**	**$409,518,069**	**$3,063,584**
Totals	**$2,503,215**	**$12,045,733**	**$423,646,903**	**$115,542,861**

Shading indicates the five highest expenditures in each field.

Table 9 - continued

Expenditures for Conduct of Research & Development by Field					
Institution	Psychology	Social Sciences	Other Sciences	Other Non-Science	Total
East Texas State	$0	$13,546	$0	$0	$520,564
East Texas State/Texarkana	0	0	0	0	0
Lamar	4,137	3,916	16,426	773,539	3,366,485
Midwestern State	1,172	0	0	0	96,688
Stephen F. Austin State	27,988	432,832	945	0	3,806,756
Texas A&M University System					
Prairie View A&M	0	0	0	0	7,847,915
Tarleton State	0	17,377	0	0	2,105,579
Texas A&M	1,433,532	14,776,584	0	0	306,264,926
Texas A&M-Corpus Christi	0	2,110	803,077	0	2,474,623
Texas A&M at Galveston	0	17,901	0	0	2,705,002
Texas A&M International	1,000	2,604	71,010	1,250	134,897
Texas A&M-Kingsville	0	0	0	175,380	4,955,228
West Texas A&M	0	11,450	0	0	1,158,536
Texas Southern	0	152,977	40,421	1,095,505	4,274,640
Texas State University System					
Angelo State	7,555	0	0	0	361,352
Sam Houston State	47,041	163,681	0	0	5,020,117
Southwest Texas State	21,563	443,471	0	994,556	4,759,723
Sul Ross State	0	10,888	0	0	189,984
Texas Tech	46,863	2,351,385	0	0	26,819,497
Texas Woman's	600	12,988	37,246	500	1,815,351
The University of Texas System					
UT at Arlington	23,500	362,926	14,358	0	15,963,093
UT at Austin	3,325,209	4,794,884	346,003	2,184,874	228,580,592
UT at Brownsville	0	5,218	0	0	67,032
UT at Dallas	216,780	3,253,556	0	0	14,667,253
UT at El Paso	162,892	1,935,490	0	0	13,237,765
UT-Pan American	104,481	205,497	0	0	1,884,826
UT of the Permian Basin	0	0	0	0	616,261
UT at San Antonio	0	911,647	0	0	4,693,580
UT at Tyler	16,863	3,962	0	0	590,466
University of Houston System					
UH	2,564,458	322,711	2,422,918	12,371	43,691,633
UH-Clear Lake	0	204,891	0	0	4,777,424
UH-Downtown	0	20,636	0	0	305,260
UH-Victoria	0	2,381	567	1,000	41,206
University of North Texas	912,733	1,877,490	0	0	15,191,332
Subtotals	**$8,918,367**	**$32,314,999**	**$3,752,971**	**$5,238,975**	**$722,985,586**
Texas A&M Coll of Medicine	$0	$0	$0	$0	$5,156,574
Texas Tech HSC	0	0	0	0	8,610,815
UNT HSC	0	0	0	0	5,381,475
UT M.D. Anderson Cancer Ctr.	0	0	0	0	122,180,937
UTMB at Galveston	0	0	0	0	64,176,482
UTHSC at Houston	0	0	0	0	74,664,885
UT Health Ctr. at Tyler	0	0	0	0	6,408,456
UTHSC at San Antonio	0	0	0	0	76,163,093
UT Southwestern Medical Ctr.	0	0	0	0	125,300,683
Subtotal	**$0**	**$0**	**$0**	**$0**	**$488,043,400**
Totals	**$8,918,367**	**$32,314,999**	**$3,752,971**	**$5,238,975**	**$1,211,028,986**

Shading indicates the five highest expenditures in each field.

Table 10

Expenditures for Conduct of Research & Development by Character of Work			
Institution	Basic Research	Applied Research & Development	Total
East Texas State	$26,239	$494,325	$520,564
East Texas State/Texarkana	0	0	0
Lamar	79,578	3,286,907	3,366,485
Midwestern State	96,688	0	96,688
Stephen F. Austin State	112,011	3,694,745	3,806,756
Texas A&M University System			
Prairie View A&M	7,264,782	583,133	7,847,915
Tarleton State	98,491	2,007,088	2,105,579
Texas A&M	231,756,884	74,508,042	306,264,926
Texas A&M-Corpus Christi	64,521	2,410,102	2,474,623
Texas A&M at Galveston	2,564,404	140,598	2,705,002
Texas A&M International	131,372	3,525	134,897
Texas A&M-Kingsville	2,159,111	2,796,117	4,955,228
West Texas A&M	171,702	986,834	1,158,536
Texas Southern	2,052,511	2,222,129	4,274,640
Texas State University System			
Angelo State	52,639	308,713	361,352
Sam Houston State	667,389	4,352,728	5,020,117
Southwest Texas State	3,629,968	1,129,755	4,759,723
Sul Ross State	189,984	0	189,984
Texas Tech	15,810,117	11,009,380	26,819,497
Texas Woman's	598,670	1,216,681	1,815,351
The University of Texas System			
UT at Arlington	5,841,961	10,121,132	15,963,093
UT at Austin	224,585,056	3,995,536	228,580,592
UT at Brownsville	0	67,032	67,032
UT at Dallas	10,518,214	4,149,039	14,667,253
UT at El Paso	7,625,423	5,612,342	13,237,765
UT-Pan American	0	1,884,826	1,884,826
UT of the Permian Basin	43,840	572,421	616,261
UT at San Antonio	4,431,761	261,819	4,693,580
UT at Tyler	565,802	24,664	590,466
University of Houston System			
UH	38,637,425	5,054,208	43,691,633
UH-Clear Lake	372,631	4,404,793	4,777,424
UH-Downtown	0	305,260	305,260
UH-Victoria	40,639	567	41,206
University of North Texas	8,338,735	6,852,597	15,191,332
Subtotals	**$568,528,548**	**$154,457,038**	**$722,985,586**
Texas A&M Coll of Medicine	$5,160,984	($4,410)	$5,156,574
Texas Tech HSC	6,304,834	2,305,981	8,610,815
UNT HSC	4,497,846	883,629	5,381,475
UT M.D. Anderson Cancer Ctr.	63,795,487	58,385,450	122,180,937
UTMB at Galveston	59,394,633	4,781,849	64,176,482
UTHSC at Houston	14,756,465	59,908,420	74,664,885
UT Health Ctr. at Tyler	6,029,626	378,830	6,408,456
UTHSC at San Antonio	76,163,093	0	76,163,093
UT Southwestern Medical Ctr.	110,661,224	14,639,459	125,300,683
Subtotals	**$346,764,192**	**$141,279,208**	**$488,043,400**
Totals	**$915,292,740**	**$295,736,246**	**$1,211,028,986**

Shading indicates the five highest expenditures.

Table 11

Expenditures for Conduct of Research & Development by Area of Special Interest				
Institution	Aerospace Technology	AIDS Research	Biotechnology	Cancer Research
East Texas State	$0	$0	$ 0	$0
East Texas State/Texarkana	0	0	0	0
Lamar	173,860	0	0	0
Midwestern State	0	0	0	0
Stephen F. Austin State	0	0	0	0
Texas A&M University System				
Prairie View A&M	989,351	0	509,917	0
Tarleton State	0	0	0	0
Texas A&M	3,961,143	443,252	43,368,800	1,574,035
Texas A&M-Corpus Christi	0	0	0	0
Texas A&M at Galveston	0	0	0	0
Texas A&M International	1,000	0	0	0
Texas A&M-Kingsville	1,392	0	0	0
West Texas A&M	0	0	0	0
Texas Southern	0	184,506	0	0
Texas State University System				
Angelo State	0	0	0	0
Sam Houston State	0	0	489	8
Southwest Texas State	63,699	0	0	57,409
Sul Ross State	0	0	0	0
Texas Tech	448,542	13,383	1,706,137	58,278
Texas Woman's	0	0	0	0
The University of Texas System				
UT at Arlington	135,156	15,110	61,474	24,257
UT at Austin	14,874,041	554,486	2,403,504	1,566,689
UT at Brownsville	0	0	0	0
UT at Dallas	2,482,086	0	893,930	146,426
UT at El Paso	0	0	0	44,199
UT-Pan American	0	0	0	0
UT of the Permian Basin	0	0	0	0
UT at San Antonio	379,758	0	0	0
UT at Tyler	0	0	0	0
University of Houston System				
UH	1,947,992	600,994	4,098,839	927,005
UH-Clear Lake	3,084,362	0	38,397	0
UH-Downtown	218,505	0	0	0
UH-Victoria	0	0	0	0
University of North Texas	10,270	3,964	434,061	0
Subtotals	**$28,771,157**	**$1,815,695**	**$53,515,548**	**$4,398,306**
Texas A&M Coll of Medicine	$0	$0	$(50)	$62,590
Texas Tech HSC	0	263,976	0	782,606
UNT HSC	0	0	787,527	15,962
UT M.D. Anderson Cancer Ctr.	0	576,721	0	121,604,216
UTMB at Galveston	0	2,498,399	7,668,575	6,317,251
UTHSC at Houston	0	1,082,221	509,539	5,761,739
UT Health Ctr. at Tyler	0	0	0	68,021
UTHSC at San Antonio	0	1,193,389	465,262	11,564,262
UT Southwestern Medical Ctr.	0	2,061,672	0	12,666,393
Subtotals	**$0**	**$7,676,378**	**$ 9,430,853**	**$158,843,040**
Totals	**$28,771,157**	**$9,492,073**	**$62,946,401**	**$163,241,346**

Shading indicates the five highest expenditures in each field.

Table 11 - Continued

Expenditures for Conduct of Research & Development by Area of Special Interest				
Institution	Energy	Environmental Sci & Engineering	Food, Fiber, Agricultural	Manufacturing Technology
East Texas State	$0	$0	$0	$ 0
East Texas State/Texarkana	0	0	0	0
Lamar	0	2,293,379	0	50,400
Midwestern State	0	0	0	0
Stephen F. Austin State	0	2,048,836	1,869,929	0
Texas A&M University System				
Prairie View A&M	466,010	312,171	3,582,646	3,494
Tarleton State	0	1,976,722	0	0
Texas A&M	4,083,107	11,602,788	33,738,071	338,790
Texas A&M-Corpus Christi	0	1,586,369	0	0
Texas A&M at Galveston	0	343,183	0	0
Texas A&M International	0	1,000	0	0
Texas A&M-Kingsville	382,942	384,493	973,429	0
West Texas A&M	275,458	0	643,211	0
Texas Southern	0	0	40,421	0
Texas State University System				
Angelo State	0	51,022	243,735	0
Sam Houston State	47,682	4,067,863	125,664	0
Southwest Texas State	0	204,869	38,617	0
Sul Ross State	0	0	0	0
Texas Tech	2,156,317	5,076,734	7,709,595	1,571,311
Texas Woman's	0	0	419,204	0
The University of Texas System				
UT at Arlington	982,084	345,754	0	2,183,386
UT at Austin	38,759,161	4,470,763	795,082	8,650,801
UT at Brownsville	0	0	0	0
UT at Dallas	403,127	318,459	0	0
UT at El Paso	124,602	3,686,658	44,979	230,076
UT-Pan American	0	0	0	120,879
UT of the Permian Basin	328,911	123,435	13,995	0
UT at San Antonio	0	145,043	0	19,294
UT at Tyler	0	16,668	0	0
University of Houston System				
UH	16,025,888	9,044,732	102,762	6,524,141
UH-Clear Lake	0	20,288	50,396	0
UH-Downtown	0	14,179	0	0
UH-Victoria	0	0	0	0
University of North Texas	206,470	1,161,114	116,643	164,276
Subtotals	**$64,241,759**	**$49,296,522**	**$50,508,379**	**$19,856,848**
Texas A&M Coll of Medicine	$0	$71,047	$0	$0
Texas Tech HSC	0	0	0	0
UNT HSC	0	0	0	0
UT M.D. Anderson Cancer Ctr.	0	0	0	0
UTMB at Galveston	0	0	0	0
UTHSC at Houston	0	0	0	0
UT Health Ctr. at Tyler	0	26,973	0	0
UTHSC at San Antonio	0	0	0	0
UT Southwestern Medical Ctr.	0	0	0	0
Subtotals	**$0**	**$98,020**	**$0**	**$0**
Totals	**$64,241,759**	**$49,394,542**	**$50,508,379**	**$19,856,848**

Shading indicates the five highest expenditures in each field.

Table 11 - Continued

Expenditures for Conduct of Research & Development by Area of Special Interest				
Institution	Materials Science & Engineering	Micro & Computer Technology	Water Resources	Total
East Texas State	$0	$0	$5,196	$5,196
East Texas State/Texarkana	0	0	0	0
Lamar	226,724	0	0	2,744,363
Midwestern State	0	0	0	0
Stephen F. Austin State	0	55,552	123,430	4,097,747
Texas A&M University System				
Prairie View A&M	128,484	0	0	5,992,073
Tarleton State	0	0	0	1,976,722
Texas A&M	3,071,608	4,072,019	1,556,478	107,810,091
Texas A&M-Corpus Christi	0	0	0	1,586,369
Texas A&M at Galveston	0	0	0	343,183
Texas A&M International	71,010	0	0	73,010
Texas A&M-Kingsville	24,753	0	23,366	1,790,375
West Texas A&M	31,838	0	0	950,507
Texas Southern	54,769	0	0	279,696
Texas State University System				
Angelo State	0	0	0	294,757
Sam Houston State	44,571	0	0	4,286,277
Southwest Texas State	441,528	0	57,872	863,994
Sul Ross State	0	0	0	0
Texas Tech	1,206,753	786,291	663,284	21,396,625
Texas Woman's	0	0	0	419,204
The University of Texas System				
UT at Arlington	247,439	351,238	0	4,345,898
UT at Austin	5,467,022	15,593,375	2,466,770	95,601,694
UT at Brownsville	0	0	0	0
UT at Dallas	1,089,397	1,318,606	0	6,652,031
UT at El Paso	2,170,526	496,596	0	6,797,636
UT-Pan American	0	79,245	0	200,124
UT of the Permian Basin	0	0	8,927	475,268
UT at San Antonio	244,841	217,602	35,471	1,042,009
UT at Tyler	0	13,455	0	30,123
University of Houston System				
UH	15,280,554	6,444,230	14,143	61,011,280
UH-Clear Lake	86,155	7,050	35,160	3,321,808
UH-Downtown	0	5,049	0	237,733
UH-Victoria	0	0	0	0
University of North Texas	1,681,280	610,730	104,687	4,493,495
Subtotals	**$31,569,252**	**$ 30,051,038**	**$5,094,784**	**$339,119,288**
Texas A&M Coll of Medicine	$0	$0	$0	$133,587
Texas Tech HSC	0	0	0	1,046,582
UNT HSC	0	0	0	803,489
UT M.D. Anderson Cancer Ctr.	0	0	0	122,180,937
UTMB at Galveston	0	0	0	16,484,225
UTHSC at Houston	0	0	0	7,353,499
UT Health Ctr. at Tyler	0	0	0	94,994
UTHSC at San Antonio	78,602	0	0	13,301,515
UT Southwestern Medical Ctr.	0	0	0	14,728,065
Subtotals	**$78,602**	**$0**	**$0**	**$176,126,893**
Totals	**$31,647,854**	**$30,051,038**	**$5,094,784**	**$515,246,181**

Shading indicates the five highest expenditures in each field.

Table 12

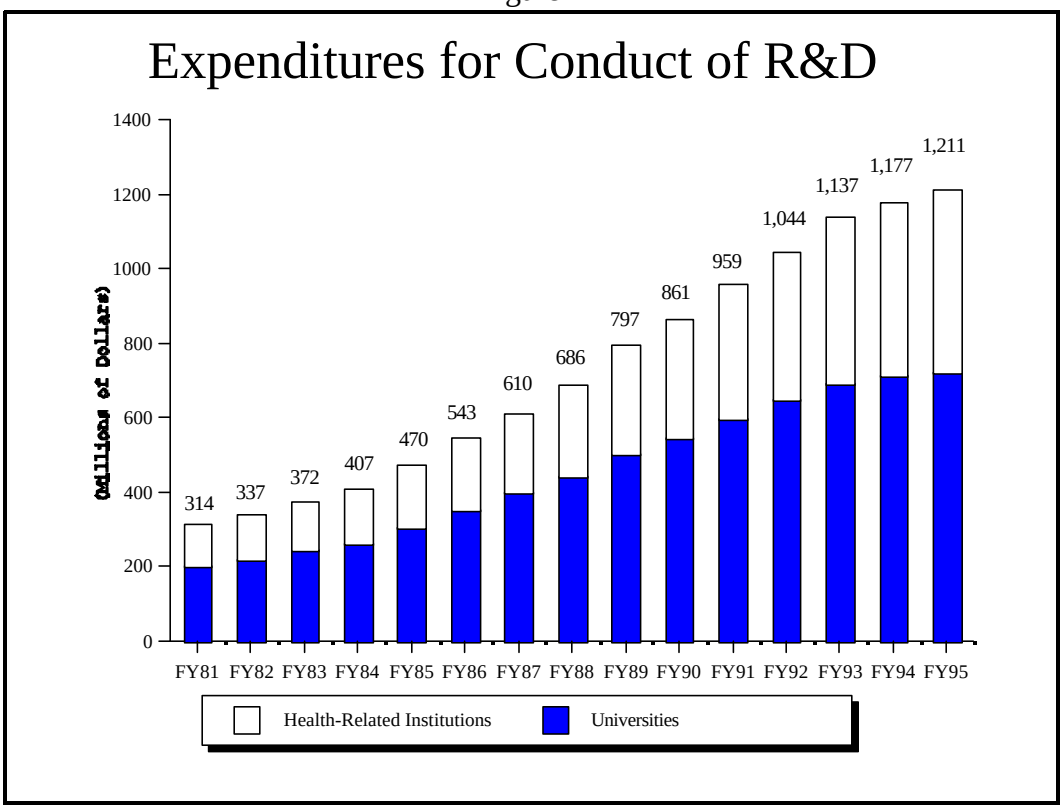
Expenditures for Conduct of Research & Development by Selection Process			
Institution	Peer Review	Negotiated	Total
East Texas State	$269,999	$250,565	$520,564
East Texas State/Texarkana	0	0	0
Lamar	2,644,322	722,163	3,366,485
Midwestern State	0	96,688	96,688
Stephen F. Austin State	3,092,908	713,848	3,806,756
Texas A&M University System			0
Prairie View A&M	2,370,194	5,477,721	7,847,915
Tarleton State	685,841	1,419,738	2,105,579
Texas A&M	134,179,703	172,085,223	306,264,926
Texas A&M-Corpus Christi	1,971,559	503,064	2,474,623
Texas A&M at Galveston	2,652,275	52,727	2,705,002
Texas A&M International	115,698	19,199	134,897
Texas A&M-Kingsville	2,813,382	2,141,846	4,955,228
West Texas A&M	197,281	961,255	1,158,536
Texas Southern	4,274,640	0	4,274,640
Texas State University System			0
Angelo State	84,591	276,761	361,352
Sam Houston State	810,084	4,210,033	5,020,117
Southwest Texas State	4,759,723	0	4,759,723
Sul Ross State	0	189,984	189,984
Texas Tech	7,952,517	18,866,980	26,819,497
Texas Woman's	1,037,435	777,916	1,815,351
The University of Texas System			
UT at Arlington	6,884,457	9,078,636	15,963,093
UT at Austin	194,013,087	34,567,505	228,580,592
UT at Brownsville	67,032	0	67,032
UT at Dallas	14,667,253	0	14,667,253
UT at El Paso	8,213,868	5,023,897	13,237,765
UT-Pan American	655,610	1,229,216	1,884,826
UT of the Permian Basin	455,658	160,603	616,261
UT at San Antonio	3,152,164	1,541,416	4,693,580
UT at Tyler	481,614	108,852	590,466
University of Houston System			
UH	26,503,665	17,187,968	43,691,633
UH-Clear Lake	986,768	3,790,656	4,777,424
UH-Downtown	305,260	0	305,260
UH-Victoria	28,220	12,986	41,206
University of North Texas	5,064,067	10,127,265	15,191,332
Subtotals	**$431,390,875**	**$291,594,711**	**$722,985,586**
Texas A&M Coll of Medicine	$4,734,142	$422,432	$5,156,574
Texas Tech HSC	3,699,537	4,911,278	8,610,815
UNT HSC	4,607,632	773,843	5,381,475
UT M.D. Anderson Cancer Ctr.	48,922,372	73,258,565	122,180,937
UTMB at Galveston	40,286,922	23,889,560	64,176,482
UTHSC at Houston	55,203,475	19,461,410	74,664,885
UT Health Ctr. at Tyler	1,461,346	4,947,110	6,408,456
UTHSC at San Antonio	61,573,878	14,589,215	76,163,093
UT Southwestern Medical Ctr.	105,856,525	19,444,158	125,300,683
Subtotals	**$326,345,829**	**$161,697,571**	**$488,043,400**
Totals	**$757,736,704**	**$453,292,282**	**$1,211,028,986**

HISTORICAL DATA

Much of the data in the research expenditures 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 1995 are probably understated relative to expenditures reported in previous years.

Figure 7



Sixteen institutions reported $10,656,363 in income from research related intellectual property for a 22 percent increase over the $8,711,341 earned in fiscal year 1994. There has been a 237 percent increase since 1991 (the first year this data was collected). Table 13 shows the income received at each institution and the number of intellectual properties producing income.

Table 13

Intellectual Property Income								
Institution	1992		1993		1994		1995	
	Income	Intellectual Properties	Income	Intellectual Properties	Income	Intellectual Properties	Income	Intellectual Properties
Texas A&M	$418,217	12	$830,657	43	$1580939	60	$2,011,437	71
Texas Tech	1,136	4	20,165	3	92,694	4	8,942	2
UT at Arlington	4,311	1	5,076	1	14,077	1	23,668	2
UT at Austin	835,433	90	975,207	105	994,250	130	930,062	150
UT at Dallas	0	0	94,449	6	120,022	17	161,683	9
UT at El Paso	0	0	24,167	7	0	0	0	0
UT at San Antonio	0	0	5,000	1	4,654	1	8,631	2
UH	42,627	6	334,272	11	78,488	5	44,684	4
UNT	3,333	1	0	0	0	0	0	0
Stephen F. Austin	**0**	**0**	**0**	**0**	**0**	**0**	**145,444**	**1**
Subtotals	**$1,305,057**	**114**	**$2,288,993**	**117**	**$2,885,124**	**218**	**$3,334,551**	**241**
Texas Tech HSC	$1,690	1	$0	0	$1,800	1	$2,425	1
UT M.D. Anderson	1,633,228	17	2,236,111	36	2,293,821	55	3,265,375	88
UTMB at Galveston	85,466	8	49,833	13	101,125	10	44,431	9
UTHSC at Houston	745,940	3	351,179	64	510,106	8	286,586	8
UTHSC at San Antonio	231,952	11	272,762	15	249,892	16	738,002	21
UT Southwestern	1,200,000	10	415,800	21	2,669,473	56	2,984,993	107
Subtotals	**$3,898,276**	**50**	**$4,325,685**	**149**	**$5,826,217**	**146**	**7,321,812**	**234**
Totals	**$5,203,333**	**164**	**$6,614,678**	**266**	**$8,711,341**	**364**	**$10,656,363**	**475**

Since 1992, research expenditures at public universities have increased by 11.6 percent. Texas A&M University, The University of Texas Southwestern Medical Center at Dallas, The University of Texas Health Science Center at San Antonio, The University of Texas at Austin, and The University of Texas Health Science Center at Houston have reported the largest dollar increases. Schools with the largest percentage increases include The University of Texas at Brownsville, The University of Houston at Victoria, Sam Houston State University, West Texas A&M University and The University of Texas at Tyler. Two of these schools reported expenditures of less than $100,000 in 1992.

Table 14

Expenditures for Conduct of Research & Development					
Institution	1992	1993	1994	1995	Percent Change *
East Texas State	$390,406	$260,531	$295,916	$520,564	33.34
East Texas Texarkana	0	0	0	0	0.00
Lamar	3,317,852	3,269,454	4,912,179	3,366,485	1.47
Midwestern State	159,046	80,171	74,320	96,688	-39.21
Stephen F. Austin State	1,549,600	2,648,359	3,401,323	3,806,756	145.66
Texas A&M University System					
Prairie View A&M	6,185,428	7,399,330	8,334,573	7,847,915	26.88
Tarleton State	1,362,312	2,406,781	2,384,563	210,579	54.56
Texas A&M	268,334,026	279,035,858	297,913,831	306,264,926	14.14
Texas A&M-Corpus Christi	1,267,425	1,630,300	2,257,829	2,474,623	95.25
Texas A&M at Galveston	2,730,622	2,461,096	4,319,863	2,705,002	-0.94
Texas A&M International	60,572	1,670,705	582,465	134,897	122.71
Texas A&M-Kingsville	2,937,264	4,060,989	4,289,014	4,955,228	68.70
West Texas A&M	315,432	165,677	293,946	1,158,536	267.29
Texas Southern University	6,596,204	3,024,079	2,611,800	4,274,640	-35.20
Texas State University System					
Angelo State	339,889	326,412	371,952	361,352	6.31
Sam Houston State	1,025,290	1,426,298	2,423,135	5,020,117	389.63
Southwest Texas State	4,623,105	6,819,632	6,601,925	4,759,723	2.96
Sul Ross State	159,949	179,345	160,053	189,984	18.78
Texas Tech	23,903,112	25,031,577	25,652,905	26,819,497	12.20
Texas Woman's	1,530,784	1,426,455	1,538,566	1,815,351	18.59
The University of Texas System					
UT at Arlington	12,684,077	12,866,784	13,189,552	15,963,093	25.85
UT at Austin	209,542,133	231,519,087	234,731,250	228,580,592	9.09
UT at Brownsville	5,509	30,622	61,083	67,032	1116.77
UT at Dallas	13,431,305	14,112,562	15,245,400	14,667,253	9.20
UT at El Paso	10,371,036	12,874,022	12,930,966	13,237,765	27.64
UT-Pan American	1,144,230	1,095,440	1,371,231	1,884,826	64.72
UT of the Permian Basin	405,063	434,788	771,935	616,261	52.14
UT at San Antonio	6,577,463	3,780,100	4,387,935	4,693,580	-28.64
UT at Tyler	239,167	459,724	544,090	590,466	146.88
University of Houston System					
UH	45,900,787	51,930,600	40,969,653	43,691,633	-4.81
UH-Clear Lake	7,121,860	6,373,167	6,437,442	4,713,744	-32.92
UH-Downtown	207,221	228,150	401,020	305,260	47.31
UH-Victoria	6,034	8,042	1,790	41,206	582.90
University of North Texas	13,515,816	11,174,722	13,059,140	15,191,332	12.40
Subtotals	**$647,940,018**	**$690,210,859**	**$712,522,645**	**$722,921,90**	**11.58**
Texas A&M Coll of Medicine	$3,871,309	$3,760,356	$3,670,468	5,156,574	33.20
Texas Tech HSC	6,737,135	6,903,447	7,293,335	8,610,815	27.81
UNT HSC	3,919,863	5,718,672	5,475,374	5,381,475	37.29
UT M.D. Anderson Cancer Ctr.	112,120,893	127,475,327	122,357,296	122,180,937	8.97
UTMB at Galveston	49,590,915	58,433,211	62,304,763	64,176,482	29.41
UTHSC at Houston	56,496,847	58,786,229	66,431,837	74,664,885	32.16
UT Health Ctr. at Tyler	5,162,798	5,836,646	6,276,576	6,408,456	24.13
UTHSC at San Antonio	56,044,469	65,303,095	71,821,266	76,163,093	35.90
UT Southwestern Medical Ctr.	102,263,092	114,258,471	118,397,601	125,300,683	22.53
Subtotals	**$396,207,321**	**$446,475,454**	**$464,028,516**	**$488,043,40**	**23.18**
Totals	**$1,044,147,339**	**$1,136,686,313**	**$1,176,551,161**	**$1,210,965,3**	**15.98**

* indicates percent change since 1992.

Table 15

Federal/State Ratio of Research & Development Dollars						
Institution	1993		1994		1995	
	Federal R&D Dollars	Federal/ State Ratio	Federal R&D Dollars	Federal/ State Ratio	Federal R&D Dollars	Federal/ State Ratio
East Texas State	$39,700	1.03	$38,945	0.76	$104,99	0.92
East Texas Texarkana	0	0.00	0	0.00	0	0
Lamar	2,157,589	2.17	3,087,058	1.84	2,621,48	4.46
Midwestern State	25,377	4.65	20,504	1.63	52,974	7.61
Stephen F. Austin State	332.500	0.22	453,126	0.21	998,186	0.54
Texas A&M University System						
Prairie View A&M	5,771,964	6.22	5,976,220	4.52	6,527,55	8.77
Tarleton State	544,595	0.30	545,785	0.30	655,999	0.46
Texas A&M	118,225,52	1.40	130,897,17	1.55	132,667,	1.60
Texas A&M-Corpus Christi	105,912	0.11	209,608	0.19	1,246,43	1.49
Texas A&M at Galveston	1,703,673	11.78	3,667,764	23.1	1,908,46	14.76
Texas A&M International	29,305	0.02	12,166	0.02	69,810	0.00
Texas A&M-Kingsville	979,039	0.47	1,283,395	0.67	1,420,10	0.60
West Texas A&M	-352	-0.01	155,851	1.64	144,435	0.16
Texas Southern	2,567,809	8.21	2,352,848	17.05	3,508,69	6.90
Texas State University System						
Angelo State	2,336	0.01	630	.002	566	0.00
Sam Houston State	380,601	0.42	1,696,562	5.29	4,204,05	9.44
Southwest Texas State	4,615,792	5.63	4,152,516	4.08	2,536,87	2.21
Sul Ross State	46,792	0.60	8,555	0.08	21,349	0.26
Texas Tech	8,746,646	0.98	9,133,751	0.98	9,361,04	0.98
Texas Woman's	692,139	1.25	714,259	1.35	906,899	1.61
The University of Texas System						
UT at Arlington	4,044,473	0.74	4,941,723	1.03	6,968,43	1.21
UT at Austin	144,701,61	4.07	149,983,05	4.85	143,938,	4.33
UT at Brownsville	0	0.00	0	0.00	314	0.00
UT at Dallas	8,121,638	5.59	6,547,037	4.23	5,370,58	4.71
UT at El Paso	9,258,889	3.62	9,256,647	3.14	9,814,97	15.30
UT-Pan American	956,361	14.02	952,673	2.63	1,170,03	1.88
UT of the Permian Basin	154,864	1.07	189,235	0.73	496,848	13.77
UT at San Antonio	2,406,469	3.31	2,797,050	4.68	3,110,21	4.80
UT at Tyler	1,935	0.01	1,014	0.01	5,582	0.01
University of Houston System						
UH	34,632,336	3.01	23,480,886	2.04	23,712,9	1.72
UH-Clear Lake	5,974,375	34.30	6,092,912	44.30	4,517,53	56.32
UH-Downtown	210,377	50.69	388,270	100.00	291,469	0.00
UH-Victoria	0	0.00	0	0.00	28,220	7.65
University of North Texas	2,669,257	0.72	3,086,752	0.80	5,076,85	1.17
Subtotals	**$360,099,**	**2.14**	**$372,123,**	**2.27**	**$373,4**	**2.26**
Texas A&M Coll of Medicine	$2,662,014	5.75	$2,659,408	4.35	$3,697,9	7.32
Texas Tech HSC	3,218,938	1.98	3,231,757	1.64	3,421,48	1.33
UNT HSC	3,753,378	16.33	4,045,159	20.62	3,985,35	16.88
UT M.D. Anderson Cancer Ctr.	41,158,677	0.67	42,416,192	0.80	44,711,4	0.90
UTMB at Galveston	30,555,572	3.97	32,774,744	3.74	33,204,1	3.39
UTHSC at Houston	38,663,927	7.83	46,821,174	9.15	54,761,9	11.14
UT Health Ctr. at Tyler	1,543,153	1.25	1,379,879	0.68	1,238,27	0.61
UTHSC at San Antonio	48,466,741	7.85	51,671,846	6.25	54,432,7	6.36
UT Southwestern Medical Ctr.	67,943,178	9.91	71,468,358	10.61	78,891,9	11.54
Subtotals	**$237,965,**	**2.62**	**$256,468,**	**2.96**	**$278,3**	**3.26**
Totals	**$598,065,**	**2.31**	**$628,592,**	**2.51**	**$651,804,**	**2.60**

Table 16

Expenditures of Character of Work and Selection Process								
Institution	1992		1993		1994		1995	
	Dollars	%	Dollars	%	Dollars	%	Dollars	%
Character of Work:								
Basic Research	$771,138,222	73.9	$845,352,157	74.4	$892,823,303	75.9	$915,292,740	75.6
Applied R & D	$ 73,009,117	26.1	$291,334,156	25.6	$283,727,858	24.1	$295,736,246	24.4
Selection Process:								
Comp, Peer Review	$649,048,919	62.2	$709,549,173	62.4	$758,439,134	64.5	$757,736,704	62.6
Negotiated or Other	$395,142,421	37.8	$427,137,140	37.6	$418,112,027	35.5	$453,292,282	37.4

Since 1992, research expenditures for medical sciences and for engineering have increased by 142.3 percent and 129.1 percent respectively. Overall federal support for research at Texas public universities and health-related institutions has increased by 21.9 percent.

Table 17

Expenditures for Conduct of Research & Development by Field				
Field	1992	1993	1994	1995
Agricultural Sciences	$14,938,411	$14,384,694	$16,595,836	$16,552,512
Arts and Humanities	634,967	999,726	820,147	1,319,482
Biological/Other Life Sci	77,208,868	86,763,665	78,085,910	73,998,913
Business Administration	4,462,302	3,153,024	4,229,280	5,311,860
Computer Science	9,485,211	12,181,983	12,872,374	11,520,972
Education	3,425,757	6,621,202	7,078,539	10,582,517
Engineering	87,491,093	94,308,112	102,857,074	98,261,026
Environmental Sciences	66,231,034	72,269,284	78,856,051	81,209,812
Law and Public Administration	192,264	311,436	244,868	449,871
Mathematical Sciences	4,602,447	5,382,749	5,567,734	5,701,225
Medical Sciences	174,843,497	194,531,174	225,573,432	250,902,921
Other Non-Science Activities	407,107	891,481	718,670	2,042,259
Other Sciences	209,355	247,183	178,873	525,411
Physical Sciences	78,464,468	90,964,116	77,859,512	74,664,364
Psychology	5,664,039	7,200,339	7,331,751	6,607,983
Social Sciences	6,534,721	7,854,946	9,722,437	12,153,262
Totals	**$534,795,532**	**$598,065,112**	**$628,592,488**	**$651,804,390**

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APPENDIX A

This Research Expenditures Survey form 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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