

## Executive Summary

# Survey of Research and Development Expenditures At Universities and Colleges

Through National Science Foundation Fiscal Year 2002 to 2006



Texas A&M University  
A Unique American Institution

Office of Institutional Studies and Planning  
October 2007

### Comparison of Texas A&M with Peer Institutions

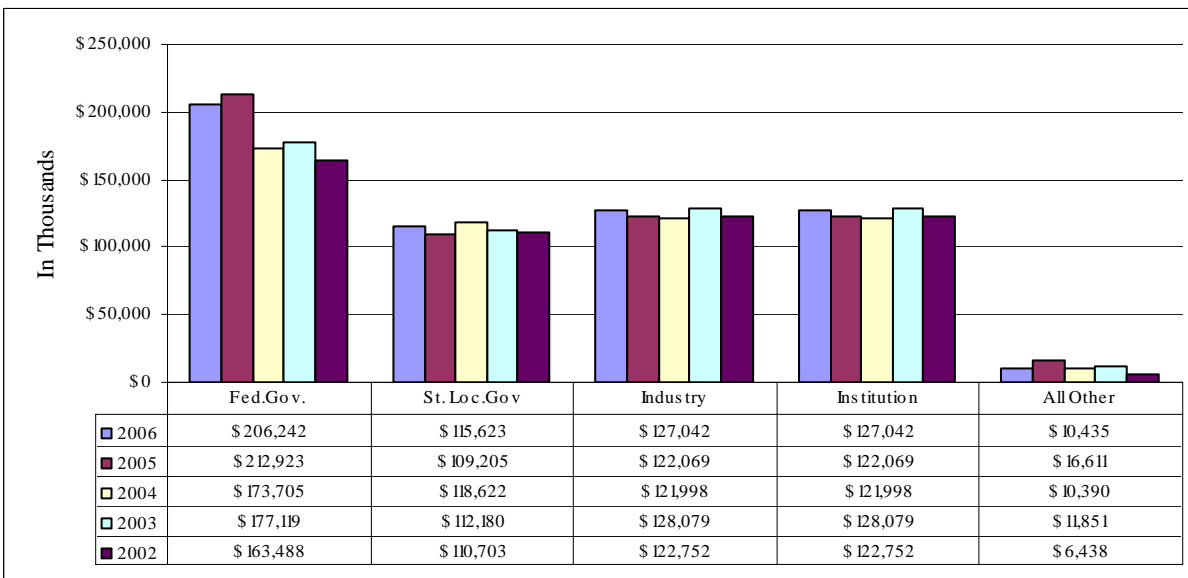
The National Science Foundation (NSF) Survey of Research and Development Expenditures at Universities and Colleges (Academic R&D Expenditures Survey) is the primary source of information on budgeted research and development (R&D) expenditures within academic institutions in the United States and outlying areas. Conducted annually since FY 1972, the survey collects information on R&D expenditures by source of funds as well as academic field. The results of the survey are primarily used to assess trends in R&D expenditures across the fields of science and engineering (S&E). This information is used extensively for federal, state, and academic planners who make decisions on future R&D funding priorities.

Each year, more than 600 institutions of higher education receive the Academic R&D Expenditures Survey. These institutions had been identified as granting a bachelor's degree or higher in S&E fields and expending at least \$150,000 in separately budgeted R&D.

This report presents both current and trend data. Most trend data cover FY 2002 to FY 2006. Expenditures are compared between Texas A&M University and our Vision 2020 peer universities in terms of funding sources and academic fields of study. Dollar amounts cited are absolute value of R&D dollars to academic institutions without any adjustments (such as inflation index).

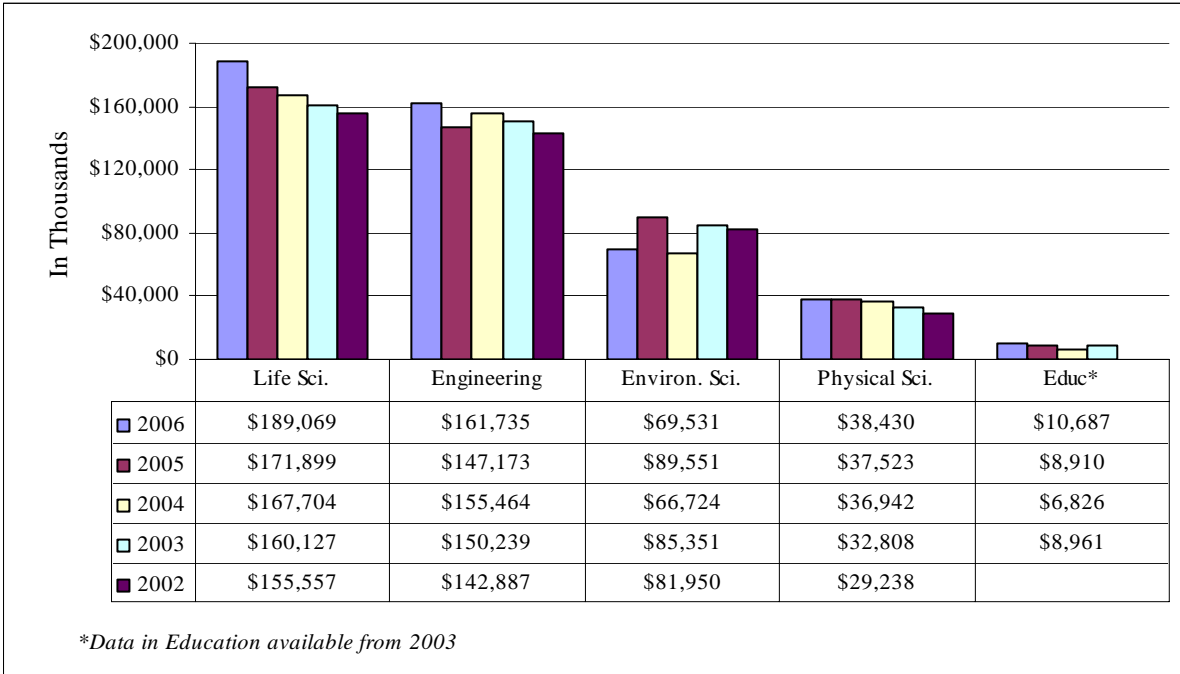
**1) In 2006 Texas A&M University spent a total of \$492,955,000 for R&D**, of which \$206,242,000 (41.8%) were funded by the federal government. Federally-financed absolute dollars increased by 26.2% from five years before. However, compared with 2005, federally-financed absolute dollars declined by \$6,681,000 (3.1%; Figure 1).

Figure 1. Texas A&M R&D by Funding Sources



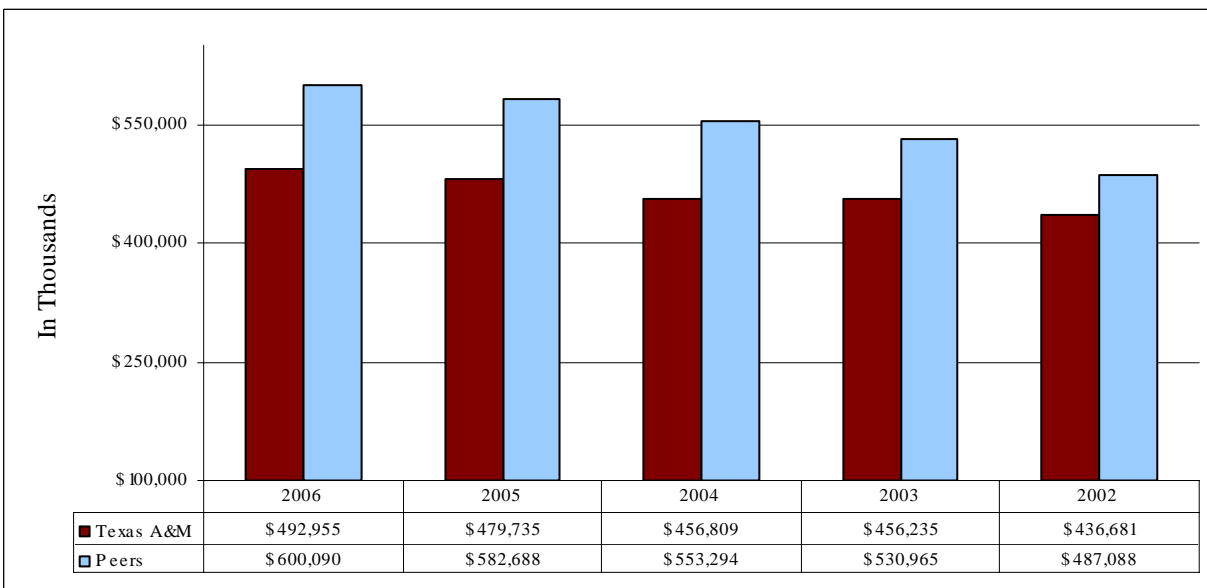
2) In 2006 Life Sciences and Engineering performed \$350,804,000 of R&D which accounted for 68.1% of all R&D performed at Texas A&M University (Figure 2).

Figure 2. Texas A&M over \$10 Million of R&D by Field of Study



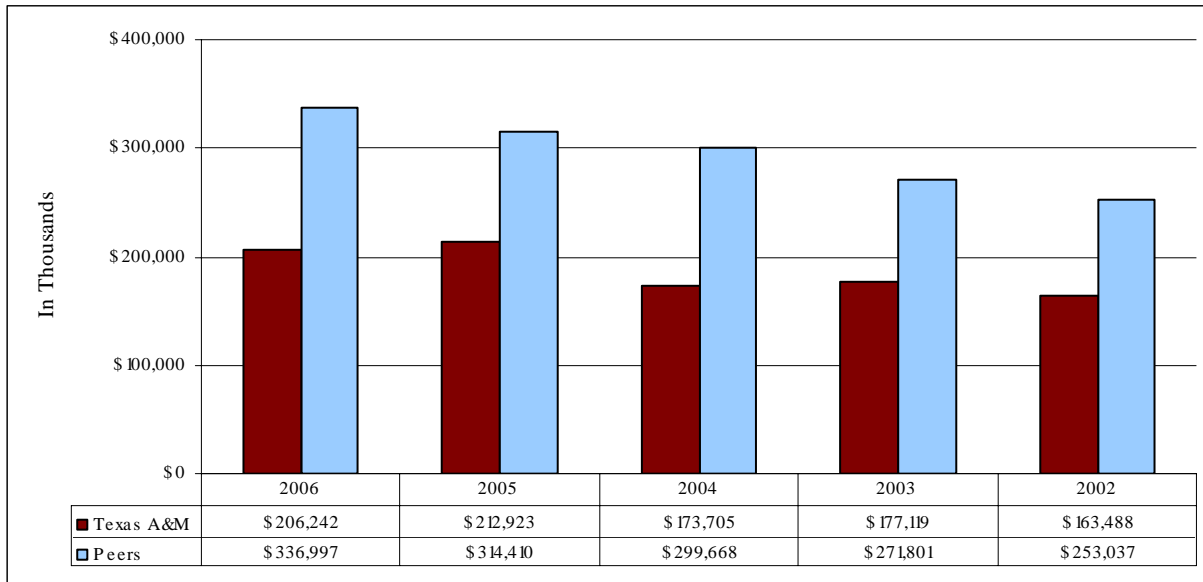
3) From 2002 to 2006, Texas A&M total R&D dollars from all sources increased by 12.9%, while our Vision 2020 peer universities grew by an average of 24.3% (Figure 3) during the same period.

Figure 3. Total R&D Comparison



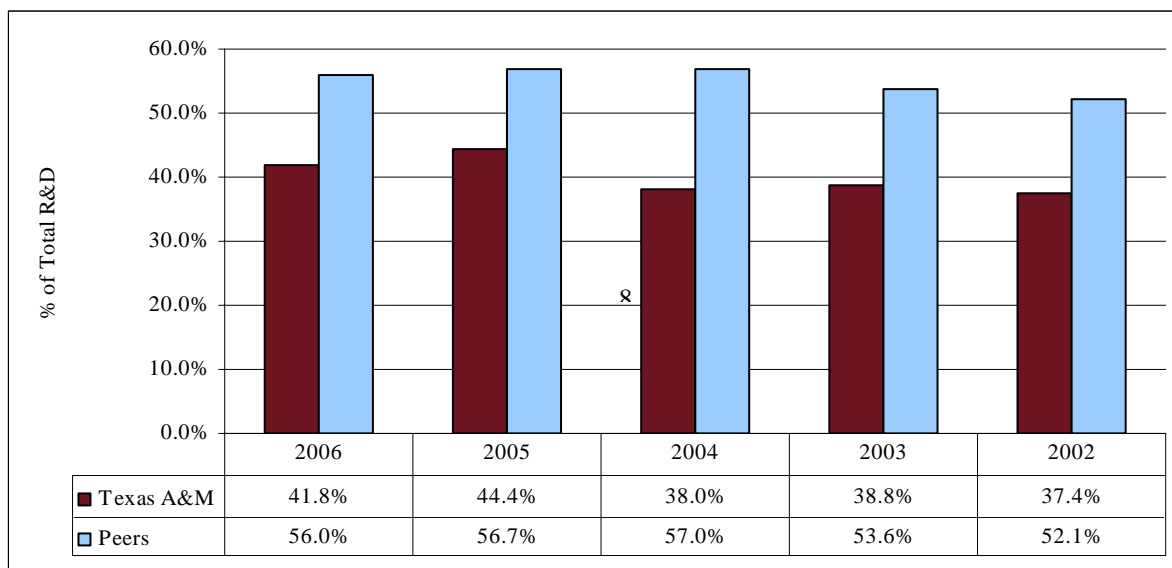
4) The federally-funded R&D dollars for Texas A&M increased by 26.2% in the five-year period. Our Vision 2020 peers, at the same time, increased by 33.2% (Figure 4).

Figure 4. Federally-Funded R&D Comparison



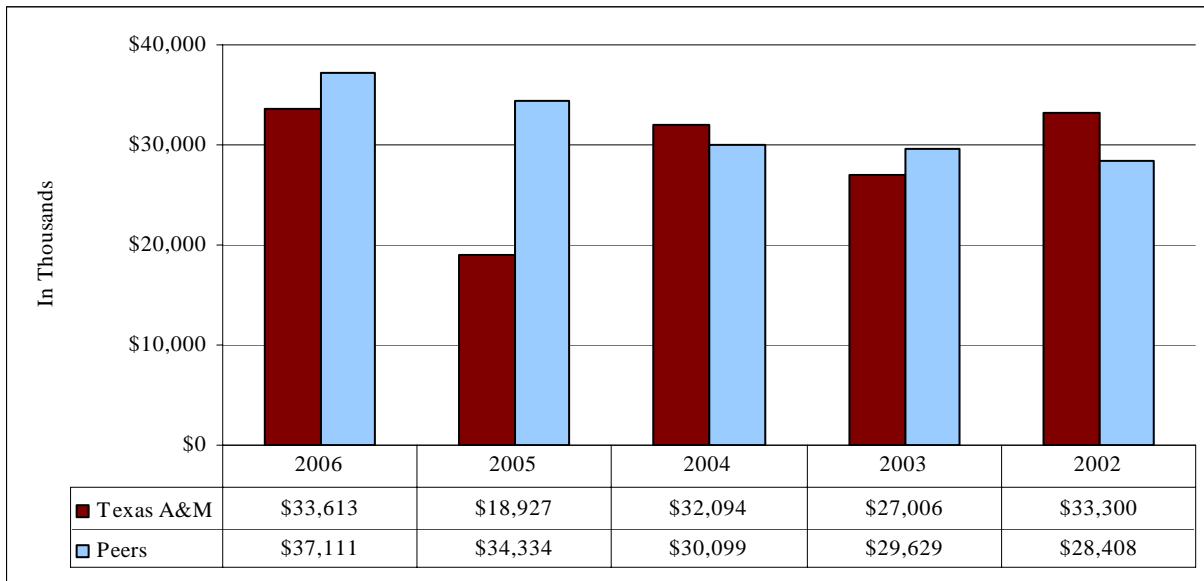
5) Texas A&M is lower than our Vision 2020 peers in terms of the proportion of federally-funded R&D dollars to the total R&D (41.8% Vs. 56% for FY 2006; Figure 5).

Figure 5. Percent of Federally-funded R&D Dollars to Total R&D



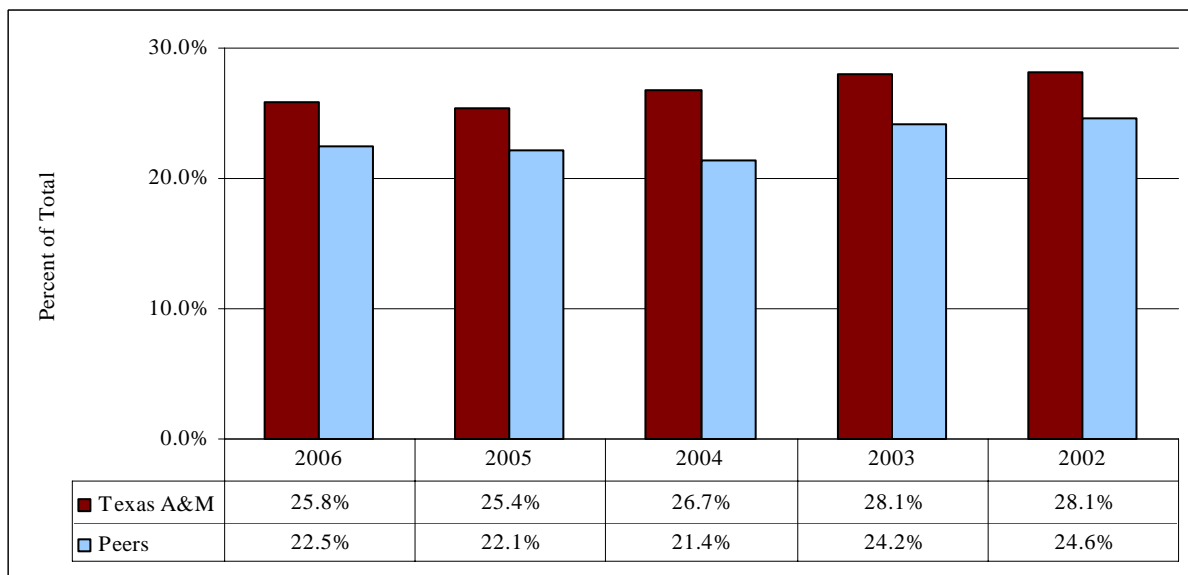
6) One of the indicators of strong ties between industry and universities is reflected in the R&D dollars from industries. While **Texas A&M performance of industry-funded R&D dollars has basically remained at the same level** (0.9% increase in absolute dollars) since 2002, the Vision 2020 peers recorded an average of 30.6% increase in R&D dollars financed by industries from five years ago (Figure 6).

Figure 6. Industry-Funded R&D Comparison



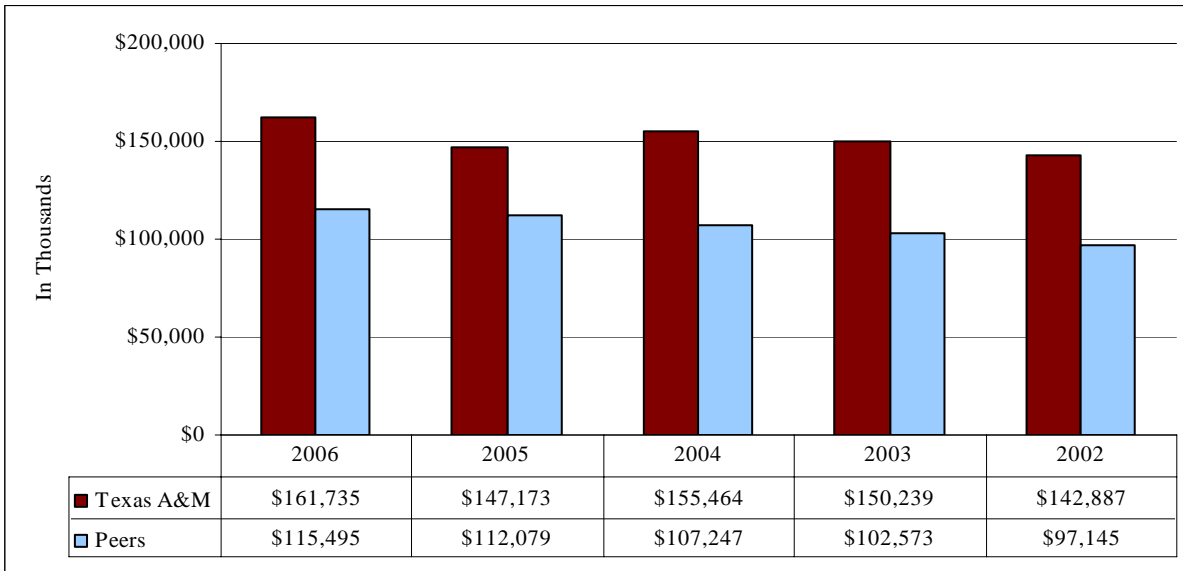
7) Institutions invest large amount of money in R&D. **At Texas A&M, for each \$100 spent on R&D in 2006, about \$24.80 was funded by the University.** The comparable number for our Vision 2020 peers was \$22.50 for every \$100 (Figure 7).

Figure 7. Percent of Institutionally-Funded R&D Dollars to Total R&D



8) Texas A&M, over the years, received significantly higher amount of R&D dollars in engineering (\$161,735,000 in 2006) compared with the average of our Vision 2020 peers (\$115,495,000 in 2006; Figure 8).

Figure 8. Engineering R&D Comparison



9) Among all the 16 vision 2020 institutions, Texas A&M ranked third in receiving 2006 R&D dollars in both Engineering and Environmental Sciences from all sources. (Figures 9 & 10).

Figure 9. 2006 R&D in Engineering

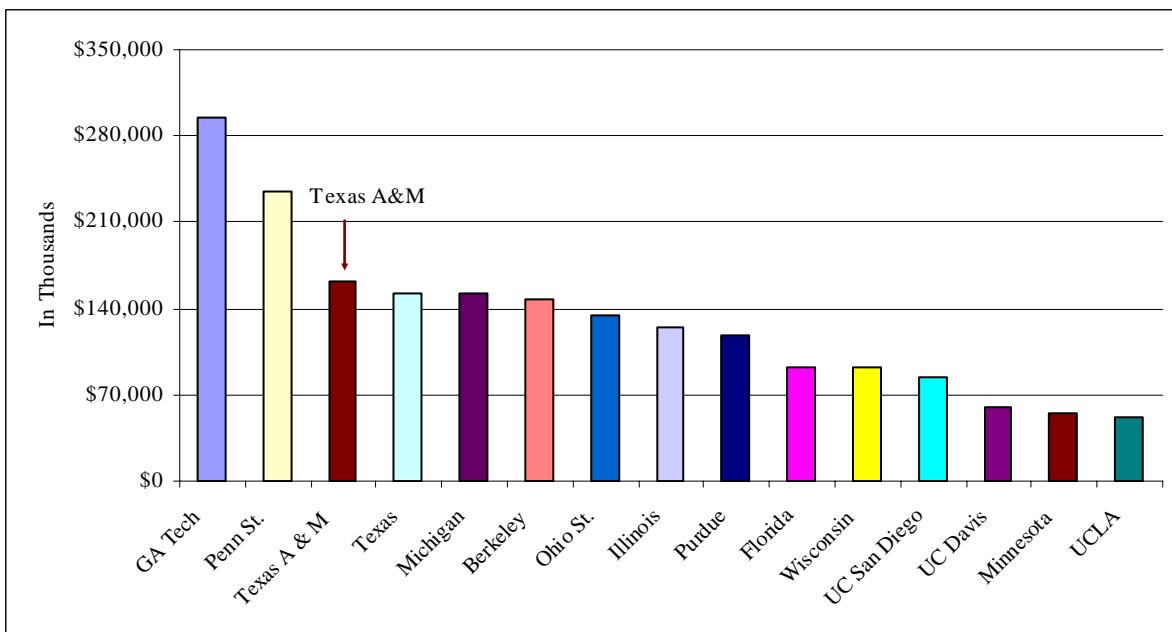
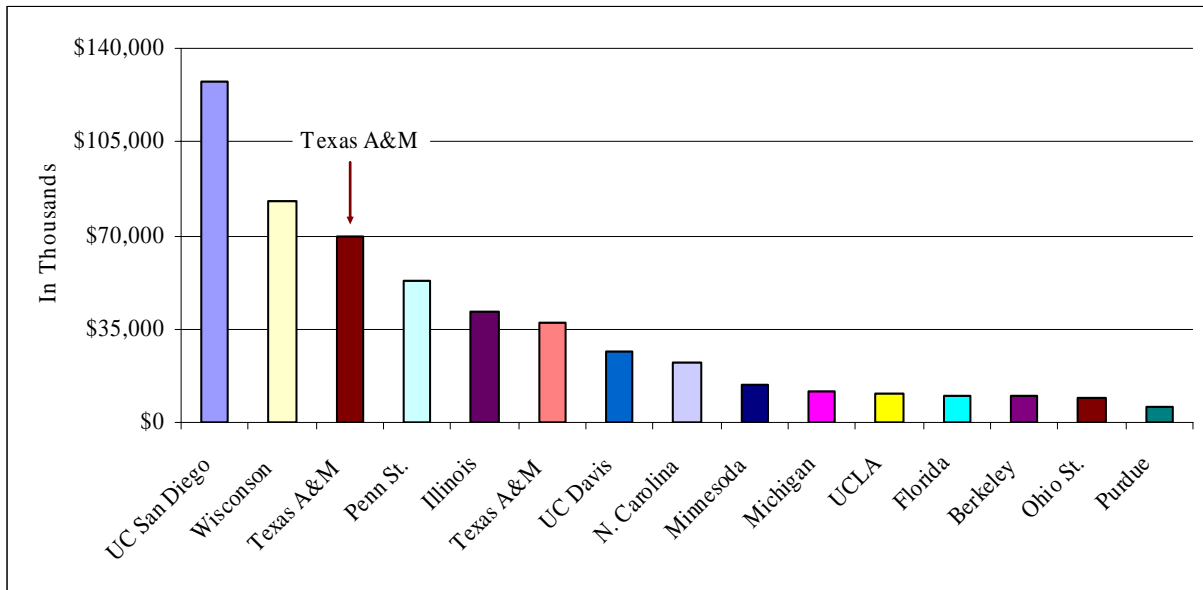


Figure 9. 2006 R&D in Environmental Sciences



Vision 2020 Peer Universities	
	University of Texas
	University of California Berkeley
	University of Michigan
	University of North Carolina
	University of California Los Angeles
	University of California San Diego
	University of Wisconsin
	University of Florida
	Georgia Institute of Technology
	University of Illinois
	University of Minnesota
	Ohio State University
	Pennsylvania State University
	Purdue University
	University of California Davis