



Texas A&M University

**Survey of
Scientific & Engineering
Research Facilities**

National Science Foundation

National Institutes of Health

FY 2006

Office of the Vice President for Research

Office of Facilities Coordination



Purpose

- **Only source of information on the status of the Nation's scientific research facilities.**
- **Congressionally mandated since 1986**
- **A biennial facilities survey of research performing colleges and universities, and of biomedical research organizations that receive NIH funds.**
- **Tenth biennial survey**



2005 Survey

- **Data will be provided/collected to describe:**

- **Type and amount of Research Space**
- **Condition of Research Space**
- **Amount and Bio-safety level of Animal Research space**
- **Cost of repair/renovation/new construction projects**

- **Report:**

- **Results to be disseminated by NSF**

- *<http://www.nsf.gov/statistics/facilities/>*



Research Square Footage

- **Sum of areas (within NSF parameters) in use as:**
 - Research Laboratories
 - Instructional Labs that happen to be used for research
 - Computer Labs or other departmental space used for research
 - Controlled-environment space, such as clean/white rooms
 - Technical support space, such as carpentry & machine shops
 - Space for laboratory animals
 - Offices for Faculty/Graduate students
 - Leased space that is used for research
 - **All space that is used to some extent for research**



Research Square Footage

- **Research Space Excludes:**

- **Space used by the fields of:**

- **Law, Business Admin, Humanities, History, The Arts, Education**

- **Space in use by Federally Funded Research & Development Centers**

- **Libraries** (*unless dedicated to a specific research project*)

- **Animal Field Buildings sheltering animals not in direct support of research**

- **Space used by Faculty, Staff or others but administered by other organizations** (*i.e. Non-University Hospitals or Veteran Hospitals*)



Research Square Footage by S&E Fields

Field of S&E

Net assignable
square feet of research space
at end of FY 2005

- a. Agricultural sciences NASF
- b. Biological sciences NASF
- c. Computer sciences NASF
- d. Earth, atmospheric, and ocean sciences NASF
- e. Engineering NASF
- f. Mathematical sciences NASF
- g. Medical sciences..... NASF
- h. Physical sciences NASF
- i. Psychology NASF
- j. Social sciences NASF
- k. Other sciences (*Please describe.*) NASF



Research Square Footage

- **Area by Science & Engineering Fields**

- **Agricultural Sciences**
- **Biological Sciences**
- **Computer Sciences**
- **Earth, Atmospheric, and Ocean Sciences**
- **Engineering**
- **Mathematical Sciences**
- **Medical Sciences**
- **Physical Sciences**
- **Psychology**
- **Social Sciences**



Research Square Footage

- **Area by Science & Engineering Fields**

- **Agricultural Sciences**

- Agricultural Production
- Aquaculture
- Renewable Natural Resources
- Plant Sciences
- Landscape Architecture
- Soil Science
- Animal Science



Research Square Footage

• Area by Science & Engineering Fields

• **Biological Sciences**

- Biophysics
- Microbiology/Bacteriology
- Biology-General
- Biochemistry
- Entomology
- Botany
- Foods & Nutrition Studies/Sciences
- Zoology
- Medical Anatomy
- Medical Biochemistry
- Medical Immunology
- Medical Microbiology
- Medical Pathology
- Medical Physiology
- Medical Toxicology
- Epidemiology
- Biological/Life Sciences



Research Square Footage

- **Area by Science & Engineering Fields**

- **Physical Sciences**

- Astronomy

- Chemistry

- Physics

- Other

- **Computer Sciences**

- Computer & Information Science

- Management Information Systems



Research Square Footage

- Area by Science & Engineering Fields

- **Earth, Atmospheric, & Ocean Sciences**

- Atmospheric Sciences & Meteorology
- Earth Sciences
- Oceanography
- Other

- **Mathematical Sciences**

- Mathematics
- Statistics



Research Square Footage

- **Area by Science & Engineering Fields**

- **Engineering**

- Aeronautical & Astronomical Engineering
- Bioengineering/Biomedical Engineering
- Chemical, Petroleum, Polymer, Wood Engineering
- Civil, Architecture, Environmental Health Engineering
- Electrical, Computer, Electronics & Communications
- Mechanical Engineering
- Metallurgical, Materials, Geological, Geophysical Engineering
- Other: Agricultural, Ocean, Systems, Industrial Engineering



Research Square Footage

- **Area by Science & Engineering Fields**

- **Medical Sciences**

- Veterinary Medicine
- College of Medicine/HSC*

**TAMUS Health Science Center Space*

reported under a separate report in previous surveys



Research Square Footage

- Area by Science & Engineering Fields

- **Psychology**

- General

- Clinical Psychology



Research Square Footage

- **Area by Science & Engineering Fields**

- **Social Sciences**

- **Economics:** *Ag Economics, Economics, Public Finance*

- **Political Science:** *Public Administration, Government*

- **Sociology:** *Anthropology, Demography*

- **Other**

- *Urban/Regional Planning*

- *Archeology*

- *Linguistics*

- *Geography*



Condition of Research Facilities

Field of S & E

(Also include all animal space reported above.)

a. Agricultural sciences	<input type="checkbox"/>	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %
b. Biological sciences	<input type="checkbox"/>	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %
c. Computer sciences	<input type="checkbox"/>	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %
d. Earth, atmospheric, and ocean sciences	<input type="checkbox"/>	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %
e. Engineering	<input type="checkbox"/>	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %
f. Mathematical sciences	<input type="checkbox"/>	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %

Field of S & E

(Also include all animal space reported above.)

	No space	Superior condition	Satisfactory condition	Requires renovation	Requires replacement	Total
g. Medical sciences	<input type="checkbox"/>	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %
h. Physical sciences	<input type="checkbox"/>	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %
i. Psychology	<input type="checkbox"/>	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %
j. Social sciences	<input type="checkbox"/>	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %



Condition of Research Facilities

Condition of research space

At the end of your FY 2005, what percentage of the research NASF reported in Question 2 fell into each of the four condition categories below? Include research animal space.

- **Superior condition** Suitable for the most scientifically competitive research in this field over the next 2 years (your FY 2006 and FY 2007)
- **Satisfactory condition** Suitable for continued use over the next 2 years (your FY 2006 and FY 2007) for most levels of research in this field, but may require minor repairs or renovation
- **Requires renovation** Will no longer be suitable for current research without undergoing major renovation within the next 2 years (your FY 2006 and FY 2007)
- **Requires replacement** Should stop using space for current research use within the next 2 years (your FY 2006 and FY 2007)



Condition of Research Facilities

National Science Foundation

Survey of Scientific & Engineering Research Facilities

FY 2006

Admin. Unit	Department	Building	NetArea	Condition of Space			
				% Superior	% Satisfactory	% Requires Renovation	% Requires Replacement
Dean-Architecture			21,536				
	5500-DEAN-COLLEGE OF ARCHITECTURE		7,904				
		0398-LANGFORD ARCHITECTURE CENTER BUILDING A	4,087	80%	20%		
		0432-ARCHITECTURE BUILDING C	3,719	100%			
		0473-WILLIAMS ADMINISTRATION BUILDING	98		100%		
	5520-ARCHITECTURE		11,542				
		0398-LANGFORD ARCHITECTURE CENTER BUILDING A	3,600				
		0432-ARCHITECTURE BUILDING C	7,161				
		0473-WILLIAMS ADMINISTRATION BUILDING	781				
	5530-CONSTRUCTION SCIENCE		253				
		0473-WILLIAMS ADMINISTRATION BUILDING	253				
	5550-LANDSCAPE ARCH & URBAN PLANNING		1,837				
		0398-LANGFORD ARCHITECTURE CENTER BUILDING A	1,837				
Grand Total			21,536				

Signature of CEO _____

Date _____



Public Release of Data

- **Most of the 2005 Survey Data will be Released to the Public.**

- *Peer Institutional Comparisons will be possible.*

- **Institutional Data Not Made Public**

- *Animal Space Responses*

- *Reports on the Condition of Space*

Aggregate Totals of these Data will be Published.



What's Next

- **Review Space Listing**
- **Evaluate Condition of Space by Department**
- **Animal Space information should be returned to Dr. Melanie Ihrig**
- **Provide Responses to Office of Facilities Coordination**
- **Return date – Friday, January 13, 2006**

• **Questions:**

• **Greg Foxworth** **845-1812**

• **Facilities Coordination** **845-8661**

David Morrison david-morrison@tamu.edu



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