



FEDERAL LABORATORY CONSORTIUM
FLC
FOR TECHNOLOGY TRANSFER

*The Only Government-wide
Forum for Technology
Transfer*

FLC Washington DC Office

Gary K. Jones
FLC DC Rep

FLC National Meeting
“View From DC”

May 16, 2007



Overview

- Congressional S&T Agenda
(Selected Legislation)
- R&D Funding Stats
- T² Accomplishments
(DC Office Outreach)





Congressional S&T Agenda: Selected Legislation ... So Far



National Academies' Report (ACI Foundation Report)

Rising Above the Gathering Storm: **Energizing and Employing America for a Brighter Future**



Recommendation Areas:

- 10K Teachers, 10M Minds: Increasing America's talent pool by vastly improving K-12 science and mathematics education;
- Sowing the Seeds: Sustaining and strengthening the nation's traditional commitment to long-term basic research;
- Best and the Brightest: Making the U.S. the most attractive setting in which to study and perform research; and
- Incentives for Innovation: Ensuring that the U.S. is the premier place in the world to innovate.



American Competitiveness Initiative

(FY 2007 Budget - Beyond)

Doubles, over 10 years, federal investment in physical science and engineering (NSF, DOC/NIST, DOE/Science);



Modernizes the R&E tax credit by making it permanent;

Strengthens K-12 math and science education;

Reforms the workforce training system;

Increases our ability to attract/retain workers through comprehensive immigration reform.



Congressional Innovation Agenda

(Augustine Report)

“I am an enthusiastic advocate of the [**Rising Above the Gathering Storm**] report and, after studying its recommendations, I drafted legislation in the 109th Congress to implement each and every action item that fell within the Science Committee’s jurisdiction. Sadly, little of that ... made its way into law.... But in the 110th Congress, that will change.”

(Bart Gordon, D-TN, Ch. House S&TC)

The bipartisan bill, the “America COMPETES Act,” implements recommendations contained in a report by the National Academy of Science, “**Rising Above the Gathering Storm**” and the Council on Competitiveness’ “Innovate America” report.

(Press Release, Senate E&NRC, Majority)

“The legislative focus of the HS&TC this term is going to **competitiveness, energy, and climate change** ...”

(Chuck Atkins, Gordon COS, House S&TC)



Congressional Innovation Agenda

(Continued: House)

Create **new generation of innovators** – skilled workforce in vital areas of science, math, engineering and information technology;

Make a **sustained federal research and development commitment** that promotes private sector innovation;

Spur affordable **access to broadband**;

Achieve **energy independence**, strengthen our national security, and protect our planet by developing **emerging technologies for clean and sustainable alternatives**;

Provide **small business with the tools** to encourage entrepreneurial innovation and job creation throughout our economy.



Select Legislation ... So Far

(110th Congress: Implications for S&T/T² Community)

Technological Competitiveness -- Science and Math Education

House

- 10,000 Teachers, 10 M Minds Science & Math Scholarship Act (H.R. 362)
- Sowing the Seeds through Science & Eng. Research Act (H.R. 363)
- Adv. Research Project Agency - Energy (ARPA-E) Act (H.R. 364)
- Investment in America Act (H.R. 2138)

Senate

- America COMPETES Act (S. 761)
- Research Competitiveness Act (S. 41)



Select Legislation ... So Far

(Continued)

Intellectual Property

- Patent Reform Act (H.R. 1908; S. 1145)

Miscellaneous

- Energy Technology Transfer Act (H.R. 85)

Reauthorizations

NSF: National Science Foundation Authorization Act (H.R. 1867)

NIST: Technology Innovation and Manufacturing Stimulation Act (H.R. 1868)

Anticipated

SBA/SBIR: (109th) Small Business Reauthorization and Improvement Act (S. 3778)

Immigration: (109th) Securing Knowledge, Innov. & Leadership Act (S. 2691, H.R. 5744)

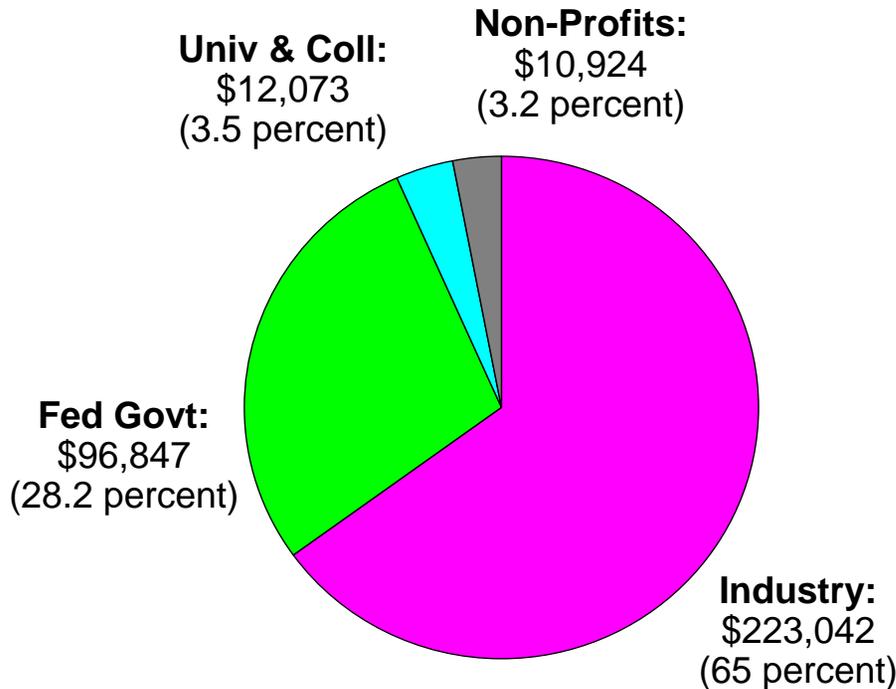


R&D Funding Stats

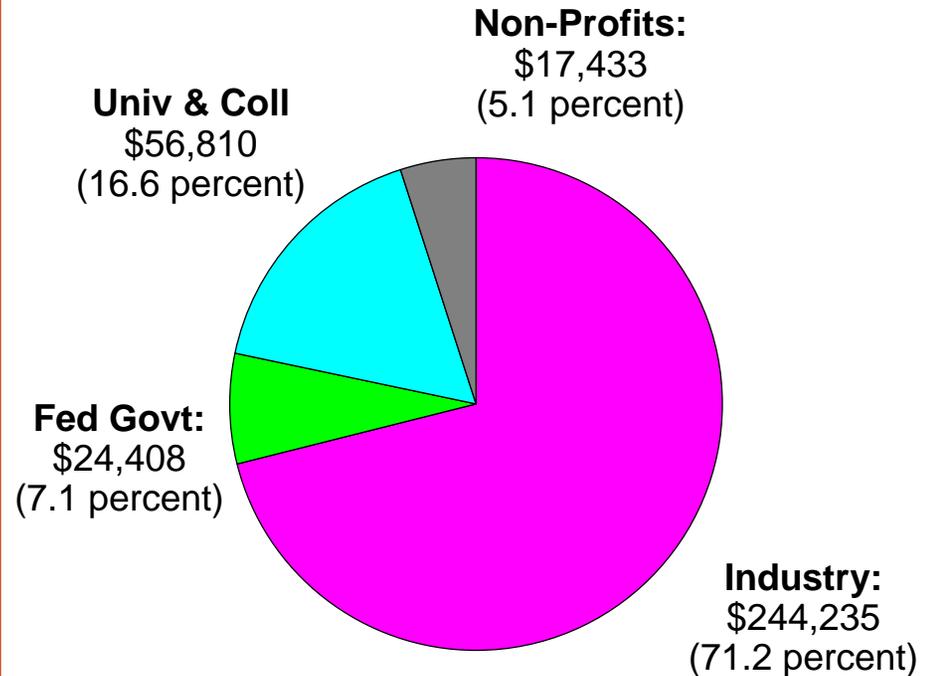


U.S. R&D Funding (Total 2006 Projected; \$\$ Millions; % Percent)

Total U.S. R&D Expenditures (By Source)



Total U.S. R&D Expenditures (By Performer)



Total: \$342.9 Billion

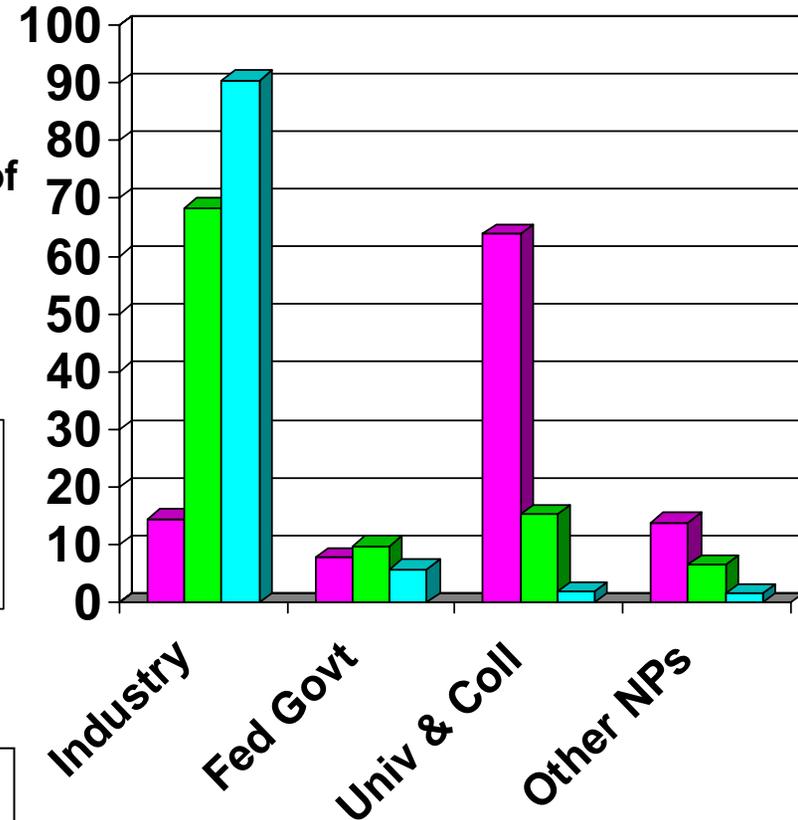
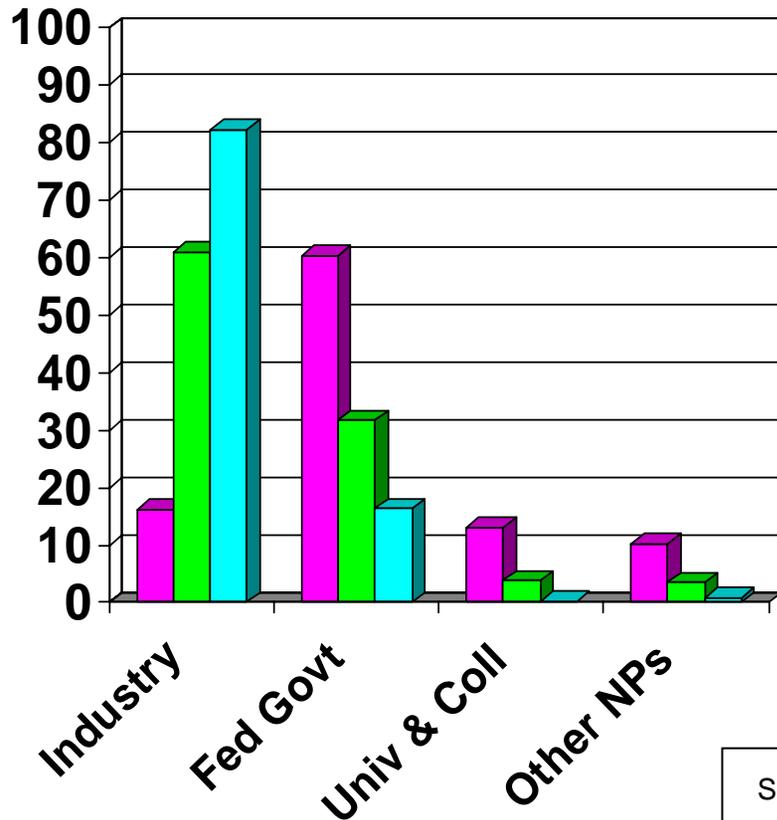
Source: NSF Reports



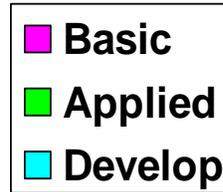
U.S. R&D Funding (2006 Projected; % Percent)

U.S. R&D Expenditures (By Source)

U.S. R&D Expenditures (By Performer)



Percentage of Total per Category



Source: NSF Reports



Federal R&D Support for Academia

(2000 – 2004; \$\$ Billions)

Five Year Trends

2000:	\$17.3	Increase	11.1%	2006: USG support for academic R&D: >63%
2001:	\$19.4	Increase	12.1%	
2002:	\$21.2	Increase	9.1%	
2003:	\$22.8	Increase	7.8%	
2004:	\$23.8	Increase	4.4%	

5-Year Change: 37.7%

Top Five States (with Highest Percent Increase over 5 Years)

Hawaii (108.3%), Nebraska (85.2%), North Dakota (81.5%),
 Tennessee (73.9%), Kentucky (60.9%)

States with Over \$1 Billion in 2004

California (\$3.5B), New York (\$1.9), Pennsylvania (\$1.5B),
 Maryland (\$1.4B), Texas (\$1.3B) Massachusetts (\$1.3B)



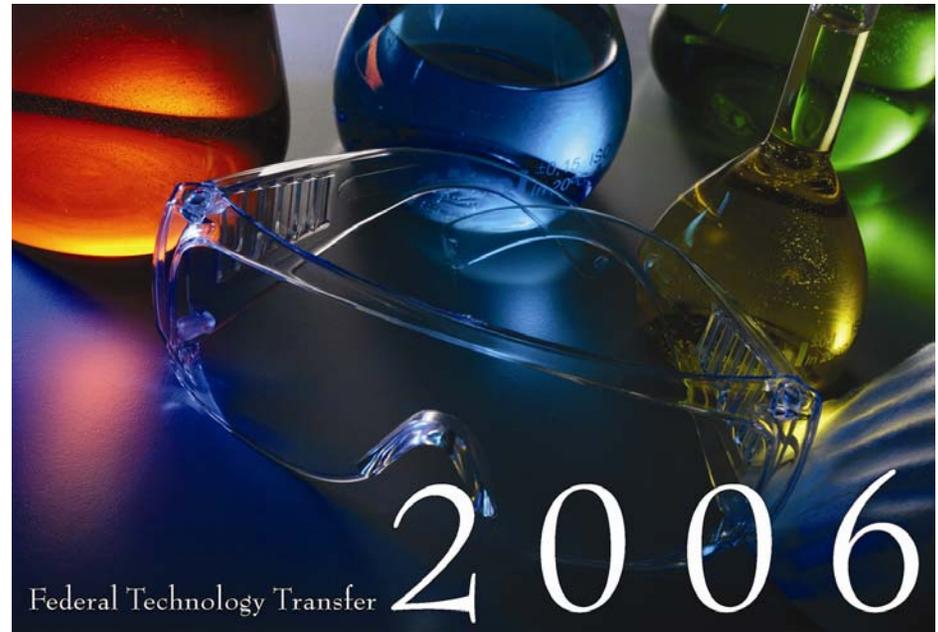
Tech Transfer Accomplishments: Congressional Outreach



Congressional Outreach (Technology Transfer Accomplishments)

Excellence in Technology Transfer Awards, 2006

Federal Technology Transfer Success Stories, 2006





Congressional Visits

(Senate)

Mid West

- DeWine, R-OH
- Voinovich, R-OH
- Levin, D-MI
- Stabenow, D-MI
- Durbin, D-IL
- Obama, D-IL

North East

- Lautenberg, D-NJ
- Menendez, D-NJ
- Clinton, D-NY
- Schumer, D-NY
- Kennedy, D-MA
- Kerry, D-MA
- Chafee, R-RI
- Reed, D-RI
- Sanders, I-VT

Far West

- Boxer, D-CA
- Feinstein, D-CA
- Cantwell, D-WA
- Murray, D-WA
- Craig, R-ID
- Crapo, R-ID



Mid Continent

- Bingaman, D-NM
- Domenici, R-NM
- Hutchison, R-TX
- Cornyn, R-TX
- Bond, R-MO
- Talent, R-MO
- Allard, R-CO
- Salazar, D-CO

Mid Atlantic

- Allen, R-VA
- Warner, R-VA
- Mikulski, D-MD

South East

- | | |
|----------------|-----------------|
| Graham, R-SC | Shelby, R-AL |
| DeMint, D-SC | Sessions, R-AL |
| Nelson, D-FL | Chambliss, R-GA |
| Martinez, R-FL | Isakson, R-GA |



Congressional Visits

(House)

Mid West

Johnson, R-IL
 Biggert, R-IL
 Levin, D-MI
 Dingell, D-MI
 Turner, R-OH

North East

Markey, D-MA
 Smith, R-NJ
 Bishop, D-NY
 Kennedy, D-RI

Far West

Davis, D-CA
 Tauscher, D-CA
 Lee, D-CA
 Hunter, R-CA
 Hastings, R-WA



Mid Continent

Cleaver, D-MO
 Wilson, R-NM
 Udall, D-NM
 Smith, R-TX

Mid Atlantic

Ruppersberger, D-MD
 Van Hollen, D-MD
 Hoyer, D-MD
 Bartlett, R-MD
 Davis, R-VA
 Rahall, D-WV

South East

Cramer, D-AL
 Rogers, R-AL
 Feeney, R-FL
 Barrett, R-SC



Congressional Visits

(Committees; Summary)

House

- House Science & Technology Committee
 - Subcommittee on Technology and Innovation

Senate

- Senate Energy & Natural Resources Committee
- Senate Commerce, Science and Transportation Committee
 - Subcommittee on Technology, Innovation and Competitiveness

.... Overall:

Engaged ... 40 Senate offices; 28 House offices; 5 Committees (staff)

Message ... Raising visibility of FLC/T²; highlighting T² in State/District



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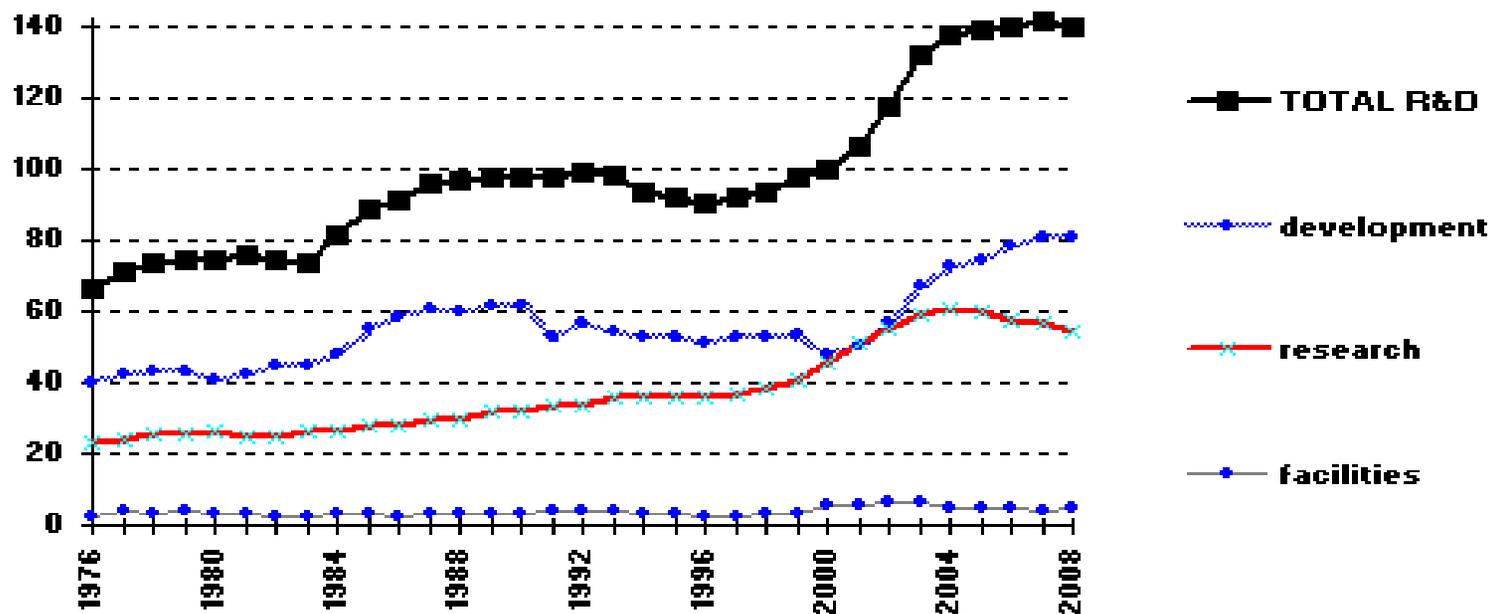
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Trends in Federal R&D, FY 1976-2008 *

in billions of constant FY 2007 dollars



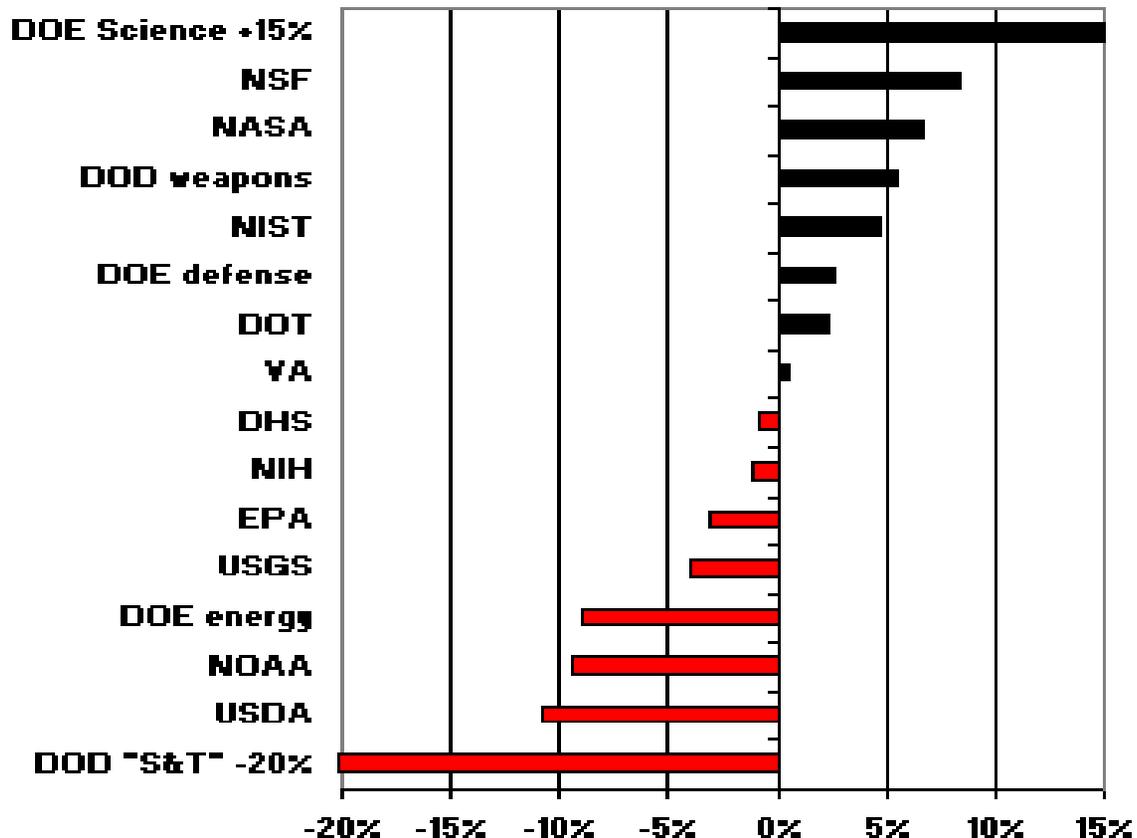
Source: AAAS analyses of R&D in annual AAAS R&D reports.

* FY 2008 figures are President's request. FY 2007 figures are latest estimates of appropriations. R&D includes conduct of R&D and R&D facilities. Data to 1984 are obligations from the NSF Federal Funds survey. Constant-dollar conversions use GDP deflators from OMB.
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FY 2008 R&D Request (revised)

Percent Change from FY 2007



Source: AAAS, based on OMB R&D data and agency estimates for FY 2008.

DOD "S&T" = DOD R&D in "6.1" through "6.3" categories plus medical research.

DOD weapons = DOD R&D in "6.4" and higher categories. FY 2007 and 2008 figures include requested supplements. FY 2007 = latest estimates of final appropriations.

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