



UKRF Board of Directors 2009 Research Report

James W. Tracy
Vice President for Research

13 May 2009

Research Highlights 2008 - 2009

- New federally-negotiated F&A rate
 - FY2009 47.5%
 - FY2010 48.5%
- Revised F&A policy
- Improved process for faculty start-up
- Faculty start-up support
 - FY2009 commitments: \$12.6 million
 - 206 active accounts (FY2005-FY2009)

Research Highlights 2008 - 2009

- \$1.42 million HRSA grant
 - Upgrades high bandwidth connection to Internet 2 from 1GB to dual 10GB
 - UK and other KY universities (KYRON)
- National Institute for Hometown Security
 - Completed negotiation of master agreement
 - \$10.9 million to UK investigators
- FY 2009 federal appropriations
 - \$19.7 million for 17 UK projects

Research Highlights 2008 - 2009

- Implemented web-based Lobbying Activity Reporting and Tracking system
- Electronic transfer of new award information from OSPA to SPA
- *Ad hoc* faculty committee on animal use protocols
- New associate vice presidents
 - Jack Supplee
 - Debbie Davis

Research Highlights 2008 - 2009

- Kentucky Geological Survey
 - \$7.29 million partnership to test CO₂ storage
 - Blan No. 1 well (Hancock Co.)
 - 4,500 ft on the way to 8,350 ft
- Center for Applied Energy Research
 - \$2.6 million algae-CO₂ capture pilot project
 - Consortium with government and industry to manage CO₂ (\$24 million over 10 years)
- Kentucky-Argonne Battery Manufacturing R&D Center at Spindletop

Research Highlights

2008 - 2009

- Tracy Farmer Institute for Sustainability & the Environment (TFISE)
 - New OVPR institute starting July 1, 2009
 - Director: Professor Paul Bertsch
- Initiative to stimulate research in arts & humanities
 - Supplement to National Endowment for the Humanities full-year fellowships
- Center for Clinical & Translational Science
 - Provost Office
 - Housed on 1st floor of Kentucky Clinic

Research Highlights 2008 - 2009

- Proposal numbers steady
- 13 Shared Instrumentation Grant proposals to NIH (S10)
 - Equals total from previous seven years
- Recovery Act proposals
 - April 2009: 207 total proposals (198 to NIH)
 - NIH C06 application to fit-up Bio-Pharm 4th floor
 - NIH G20 application to renovate BLS-3 suite

Research Initiatives 2009 – 2010

- Refine research business processes to improve communication with and support for investigators
- Assess research compliance risk
- Increase effective F&A cost recovery
- Return on investment analysis
- AAHRPP accreditation (human subjects)
- Identify and engage new sources of research support

Challenges to Research

- Research space limitations
- Aging research equipment
- Faculty & staff retention
- Research compliance
- Recovery Act reporting requirements

Top 20 Update FY 2007 NSF Ranking

Total R&D expenditures

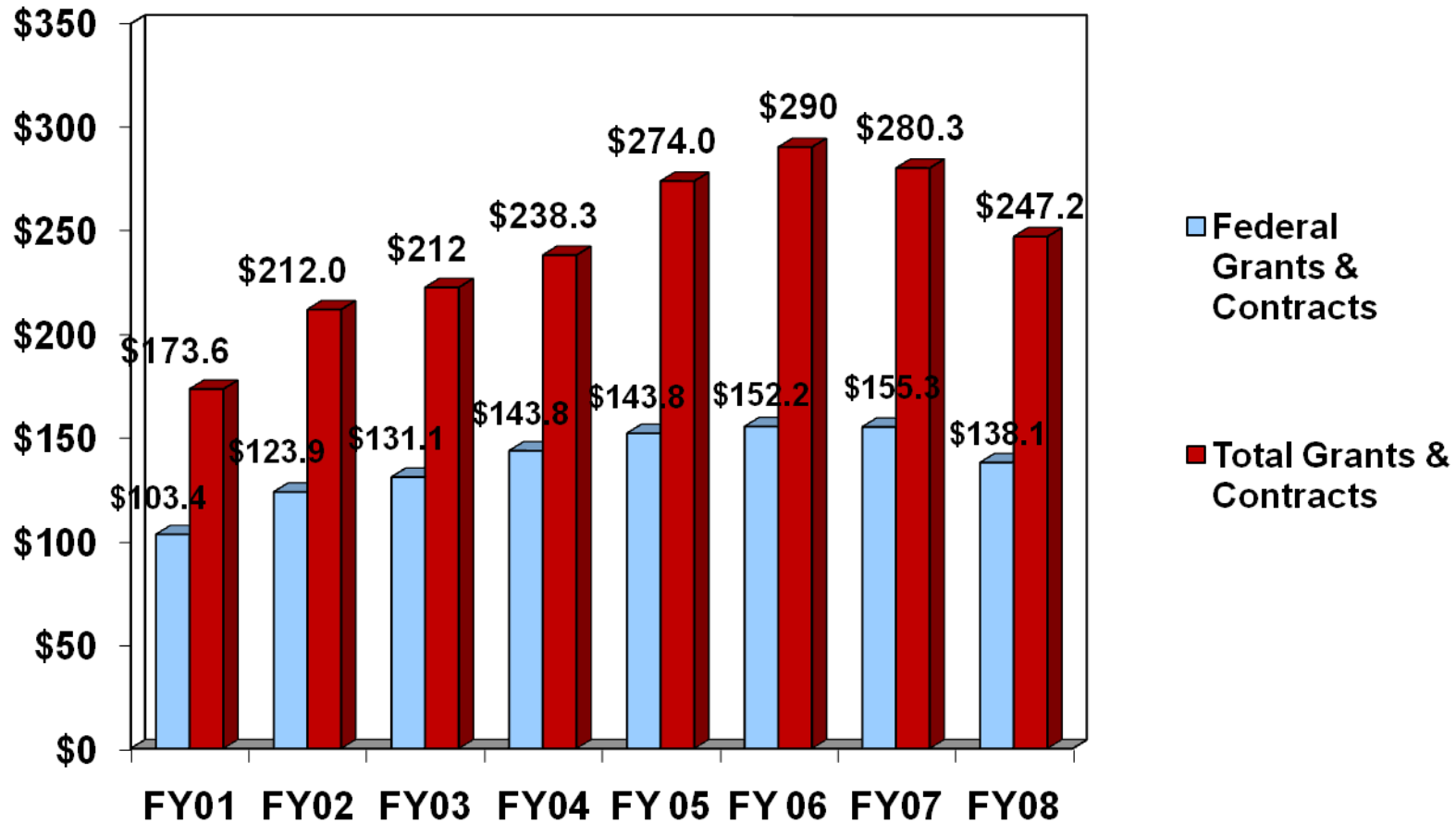
- UK 36th \$331.1 million (34th in FY06)
2.2% increase over FY2006
- Georgia Tech 20th \$472.6 million
- Only \$56,000 behind NC State (35th)
- Only \$1 million behind UGA (34th)

Top 20 Update FY 2007 NSF Ranking

Federal R&D expenditures

- UK 39th \$154.7 million (40th in FY06)
2.3% increase over FY2006
- UC Berkeley 20th \$251.0 million

Grant & Contract Awards





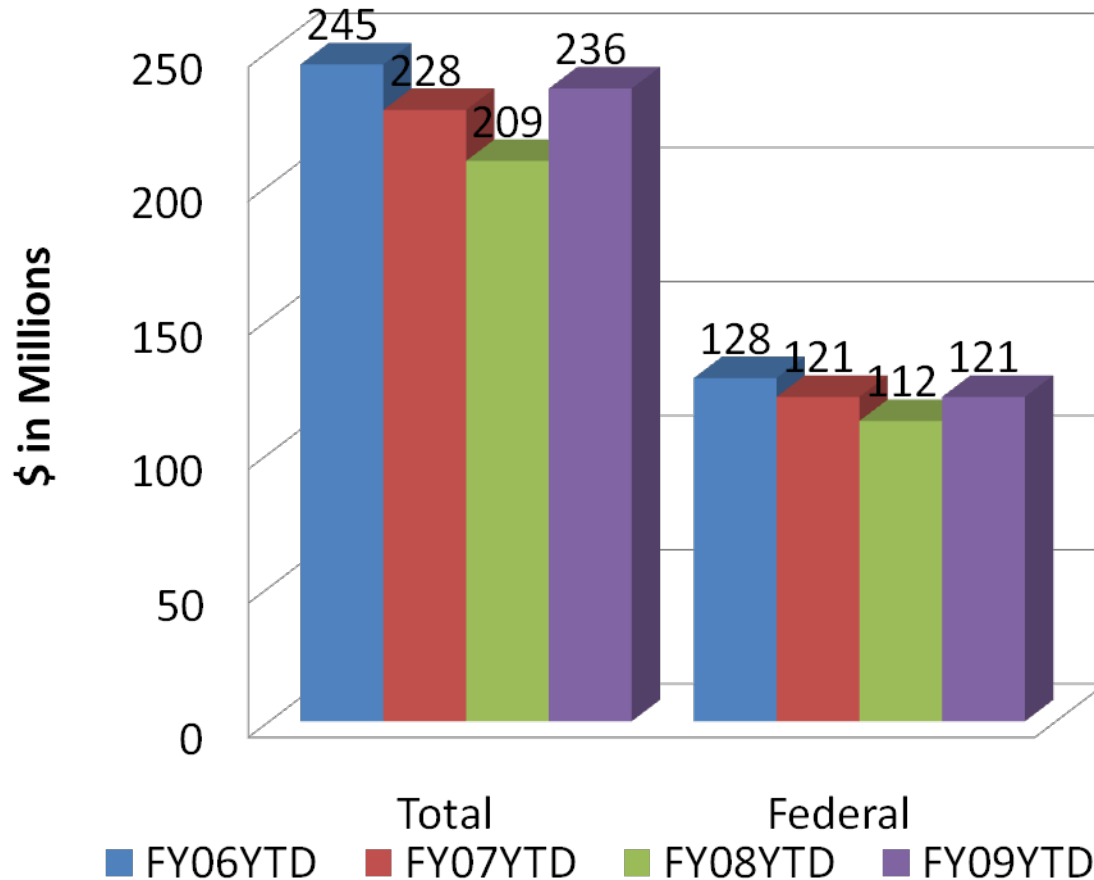
FY08 Unit Awards

College	Awards 2007	Awards 2008	Difference
Medicine	\$115,365,436	\$107,171,392	-\$8,194,044.00
Agriculture	\$31,488,174	\$30,972,002	-\$516,172
Research C&I	\$36,962,004	\$25,962,004	-\$11,000,000
Engineering	\$24,513,633	\$21,941,259	-\$2,572,374
A&S	\$20,774,333	\$14,604,797	-\$6,169,536
Pharmacy	\$9,716,255	\$11,539,783	\$1,823,528
Public Health	\$7,753,385	\$6,835,179	-\$918,206
Education	\$7,143,734	\$6,414,831	-\$728,903
Social Work	\$4,946,759	\$4,559,522	-\$387,237
Dentistry	\$4,655,518	\$3,889,044	-\$766,474
B&E	\$3,480,415	\$2,921,601	-\$558,814
Nursing	\$3,439,076	\$2,473,537	-\$965,539
Health Sciences	\$2,395,310	1,519,459	-\$875,851
Graduate School	\$2,802,385	\$1,360,897	-\$1,441,488
Communications	\$853,174	\$1,134,418	\$281,244
Libraries	\$765,578	\$630,369	-\$135,209
Design	\$82,900	\$52,000	-\$30,900
Law	\$1,498,842	\$36,000	-\$1,462,842
Fine Arts	\$20,000	\$20,000	\$0
Other	\$1,608,377	\$3,184,372	\$1,575,995
TOTAL	\$280,265,288	\$247,222,466	-\$33,042,822

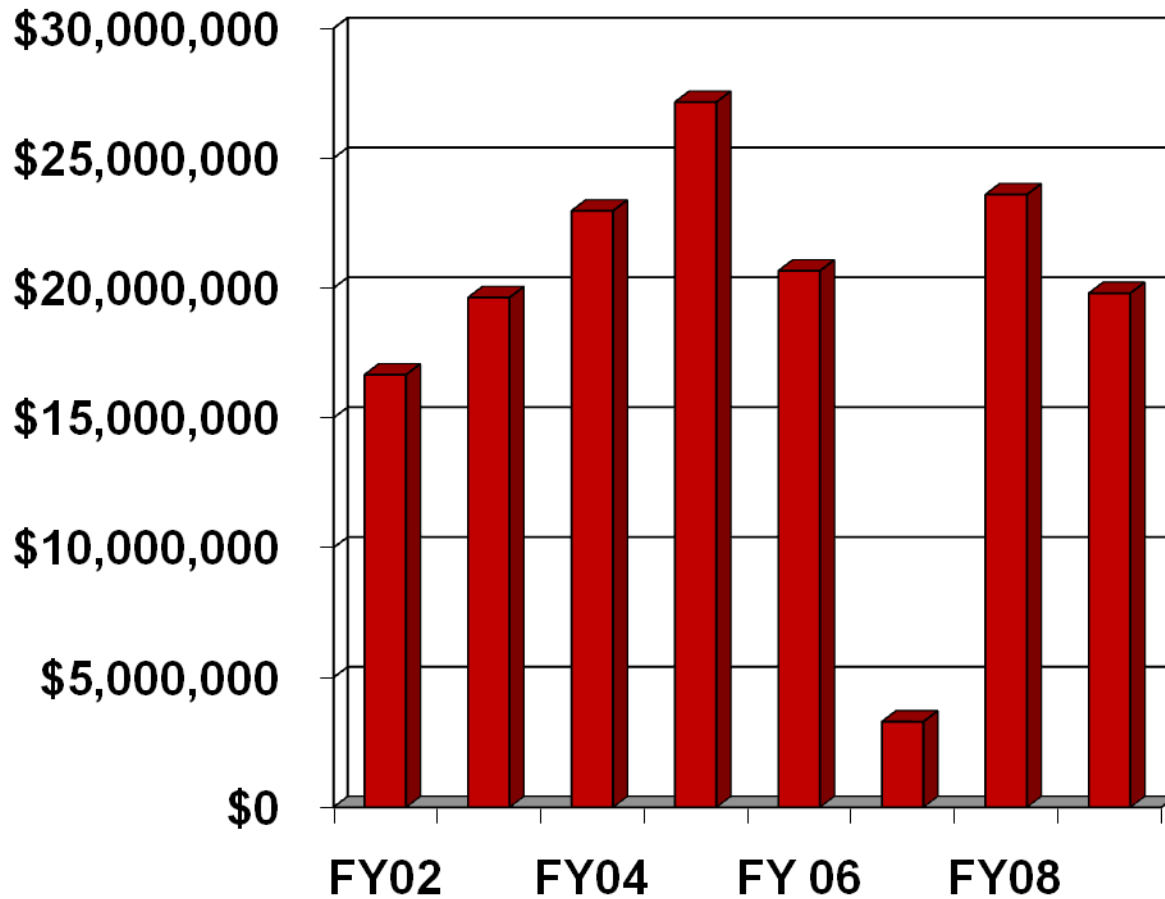
FY08 Unit Expenditures

College	Expenditures	
	Direct 2008	F&A Realized 2008
Medicine	\$125,909,095	\$22,577,594
Research C&I	\$26,193,195	\$3,434,935
Engineering	\$23,240,161	\$4,337,632
Agriculture	\$21,573,267	\$2,547,137
A&S	\$13,791,116	\$3,646,474
Pharmacy	\$7,031,334	\$2,319,224
Public Health	\$6,375,366	\$942,266
Education	\$5,659,097	\$532,565
Social Work	\$4,677,416	\$408,755
B&E	\$2,728,537	\$300,636
Dentistry	\$2,696,713	\$818,028
Nursing	\$2,357,040	\$705,445
Health Sciences	\$1,677,026	\$481,062
Graduate School	\$1,123,367	\$189,409
Libraries	\$680,284	\$55,708
Law	\$606,686	\$10,334
Communications	\$394,167	\$240,216
Design	\$85,318	\$12,190
Fine Arts	\$24,294	\$0
Other	\$10,933,723	\$255,669
TOTAL	\$257,757,202	\$43,815,279

Awards Year-to-Date (July 01 through April 30)



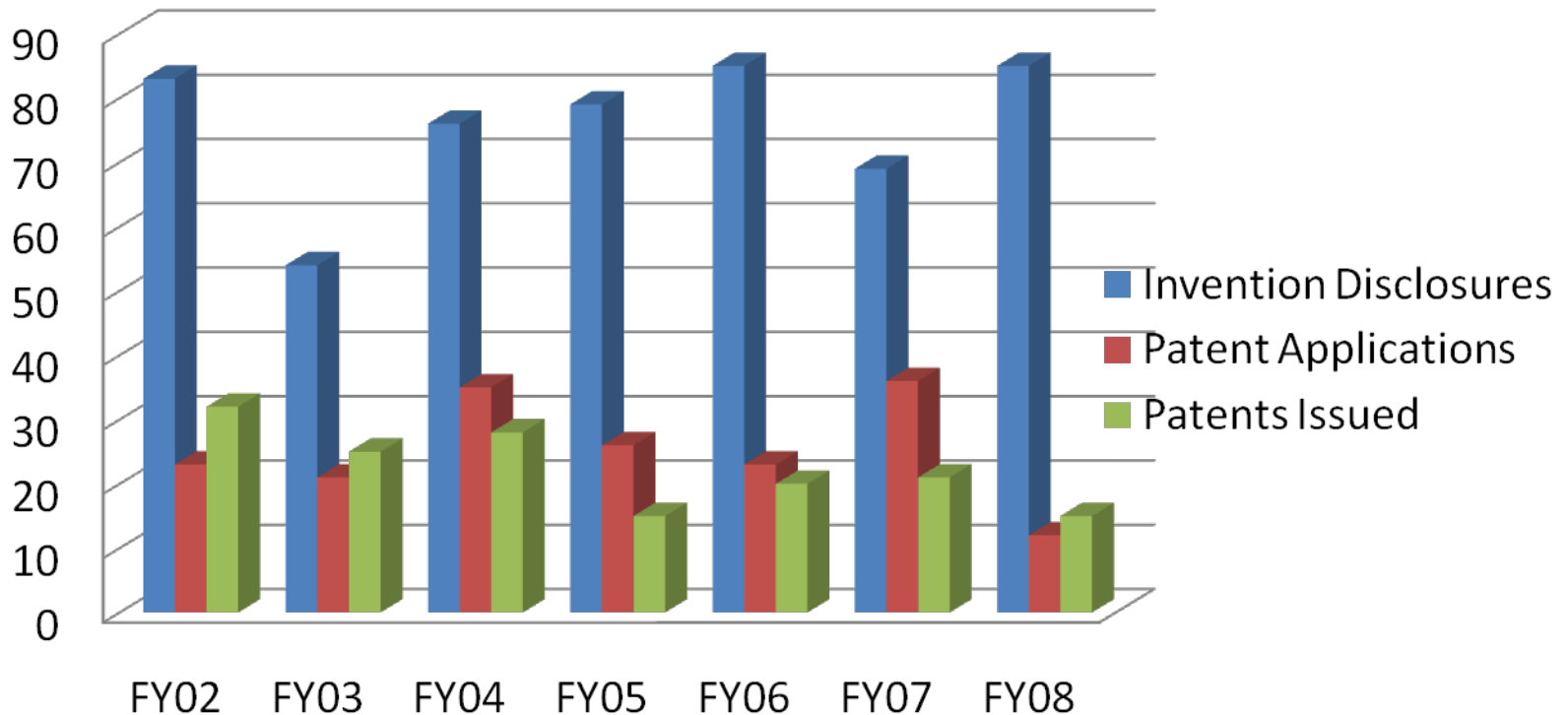
Directed Appropriations



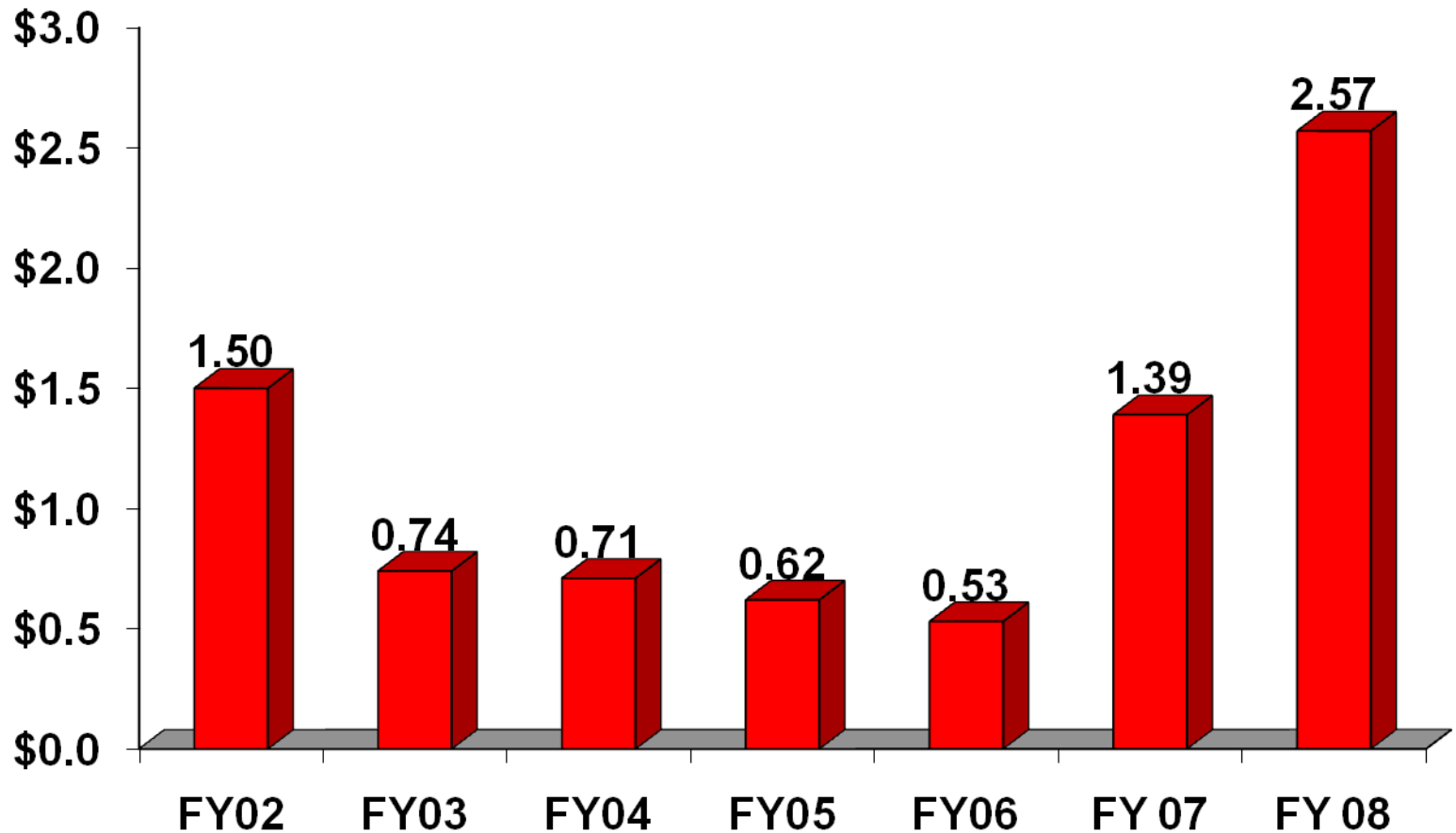
FY09 Appropriations by Category

	(millions)
• AGRICULTURE	\$6.86
• DEFENSE	\$2.80
• ENERGY	\$5.61
• LABOR/HHS	\$4.47

Intellectual Property Activity



Patent Income



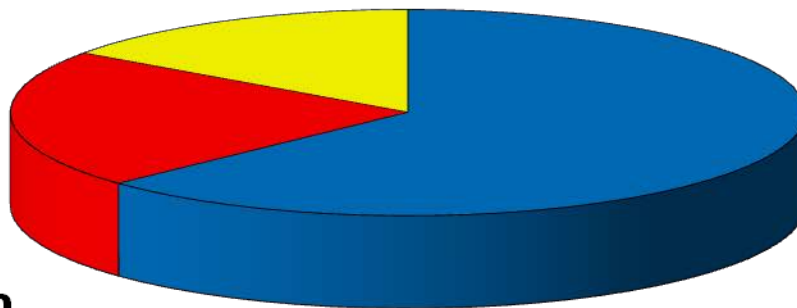
As reported in the UK Financial Statement

FY2008 UKRF Expenditures (\$49.47 million)

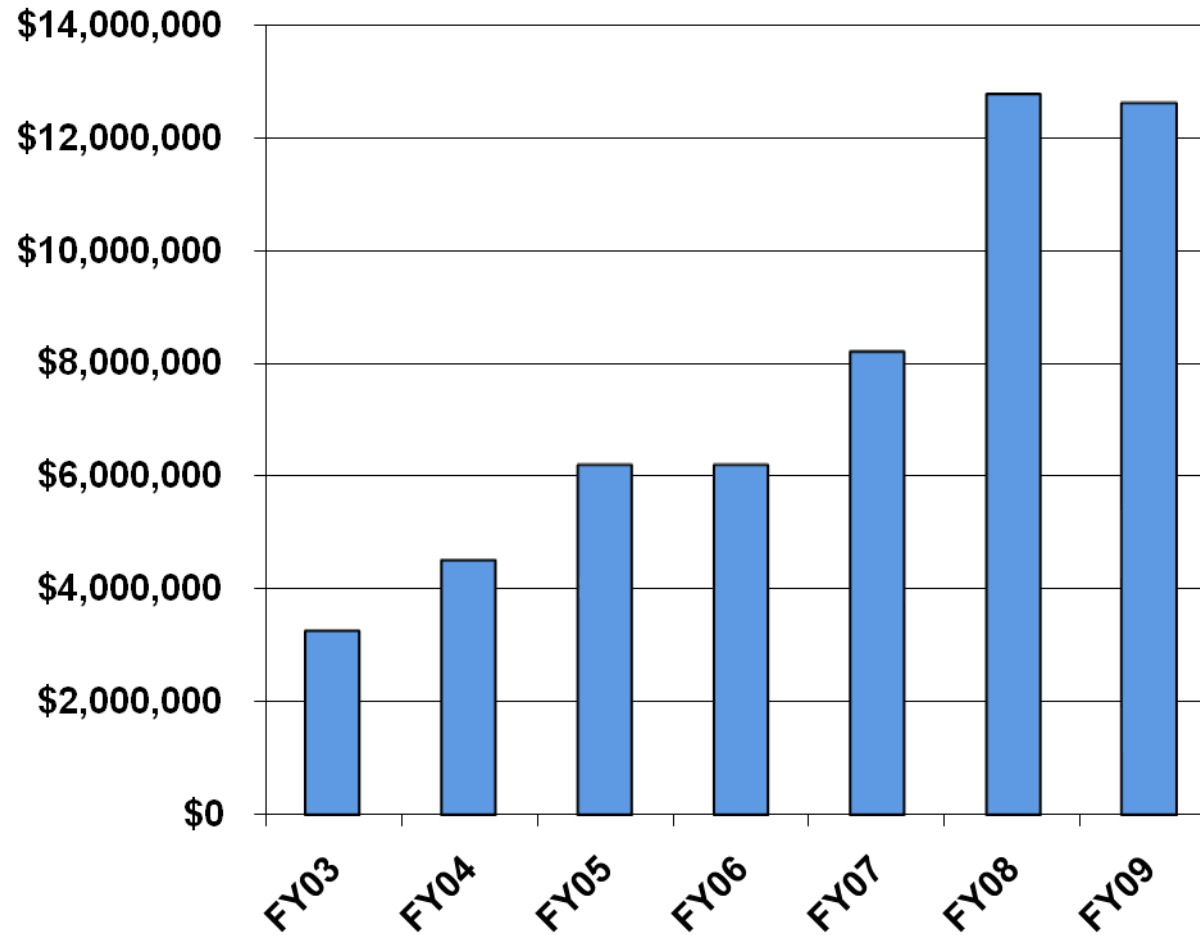
Grant to UK
\$7.53 million
(15.2%)

Faculty & Academic
Units
\$31.13 million (62.9%)

Research
Admin
\$10.81 million
(21.9%)



Faculty Start-up Commitment



Realized F&A Income

FY2006	\$43.04 million
FY2007	\$43.57 million
FY2008	\$43.81 million
FY2009	\$41.5 million*

***Projected as of April 30, 2009**

Federal Funding Outlook

- **FY2010 federal budget released**
 - 3.4% increase for basic research
 - 1.4% base increase for NIH
 - Double NSF and DOE Office of Science budgets within 10 years.
- **American Recovery & Reinvestment Act of 2009**
 - Short-term, one-time funding
 - Potential F&A income not figured in UKRF budget

Realized F&A Income

FY2006	\$43.04 million
FY2007	\$43.57 million
FY2008	\$43.81 million
FY2009	\$41.5 million*
*Projected as of April 30, 2009	
FY2010	\$41 million (est.)



Proposed FY2010 UKRF Budget

	FY09 Approved Budget	FY10 Proposed Budget	Difference
REVENUE			
I. Sponsored Projects			
Grants & contracts	280,000,000	293,000,000	13,000,000
LESS: Direct costs	241,000,000	252,000,000	11,000,000
Net F&A Recovery	39,000,000	41,000,000	2,000,000
II. General Income			
Subtotal General Income	3,763,000	3,707,000	(56,000)
III. Fund Balance, NR			
Unexpended Royalty Income	900,000	2,500,000	1,600,000
Fund Balance, NR	2,100,000	1,000,000	(1,100,000)
Subtotal Fund Balance, NR	3,000,000	3,500,000	500,000



Proposed FY2010 UKRF Budget

	FY09 Approved Budget	FY10 Proposed Budget	Difference
TOTAL REVENUE	45,763,000	48,207,000	2,444,000
TRANSFERS & EXPENDITURES			
I. Transfers to General Fund			
Subtotal Transfers	20,286,100	20,852,590	566,490
II. Expenditures			
A. Operating & Admin	719,500	719,500	0
B. Other Activity	3,095,000	4,639,000	1,544,000
C. Research Programs	21,662,400	21,995,910	333,510
Subtotal Expenditures	25,476,900	27,354,410	1,877,510
Total Transfers & Expenditures	45,763,000	48,207,000	2,444,000