



Missouri's Great State University



Fall 2004 General Faculty Meeting

Brady J. Deaton
Chancellor



Priorities for Action

- 1. Retain and Recruit Best Faculty**
- 2. Provide Quality Graduate and Professional Education**
- 3. Make MU More Affordable—Increase Enrollment**
- 4. Increase Outside Research Investment**
- 5. Strengthen and Diversify Funding Base**



Priorities for Action

- 6. Strengthen Campus Infrastructure**
- 7. Expand Global Outreach**
- 8. Support Public Policy Research and Economic Development**
- 9. Strengthen Linkages with Alumni and Key Constituents**
- 10. Improve Campus Climate**

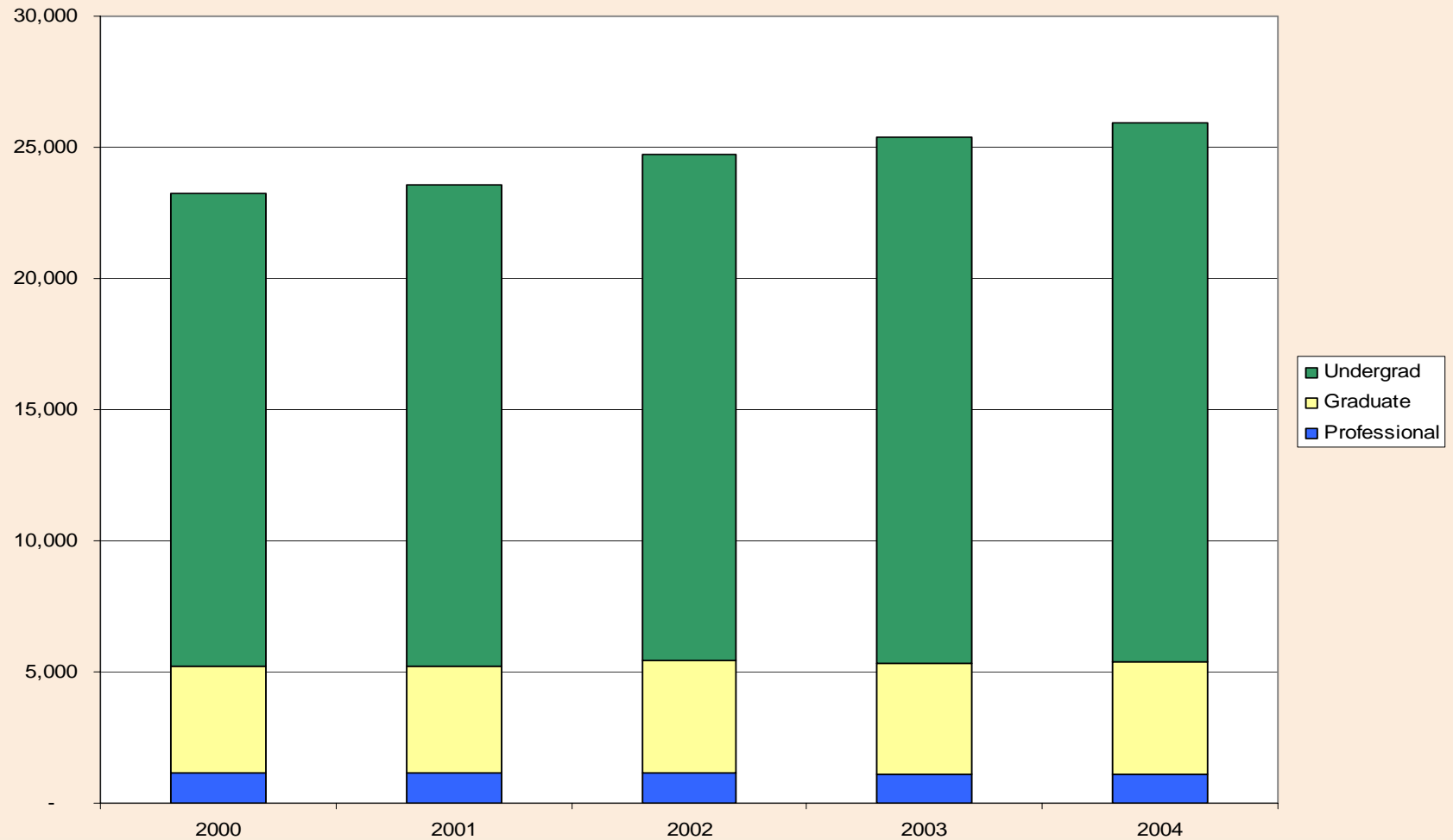


Legislative Strategy: Reinvest in Higher Education

- Multi-Year Plan
- Operating
 - Need Based Financial Aid
 - Health Care For Missourians
 - Maintenance & Repair
 - Technology Costs
- Capital
 - Health Sciences Research Center



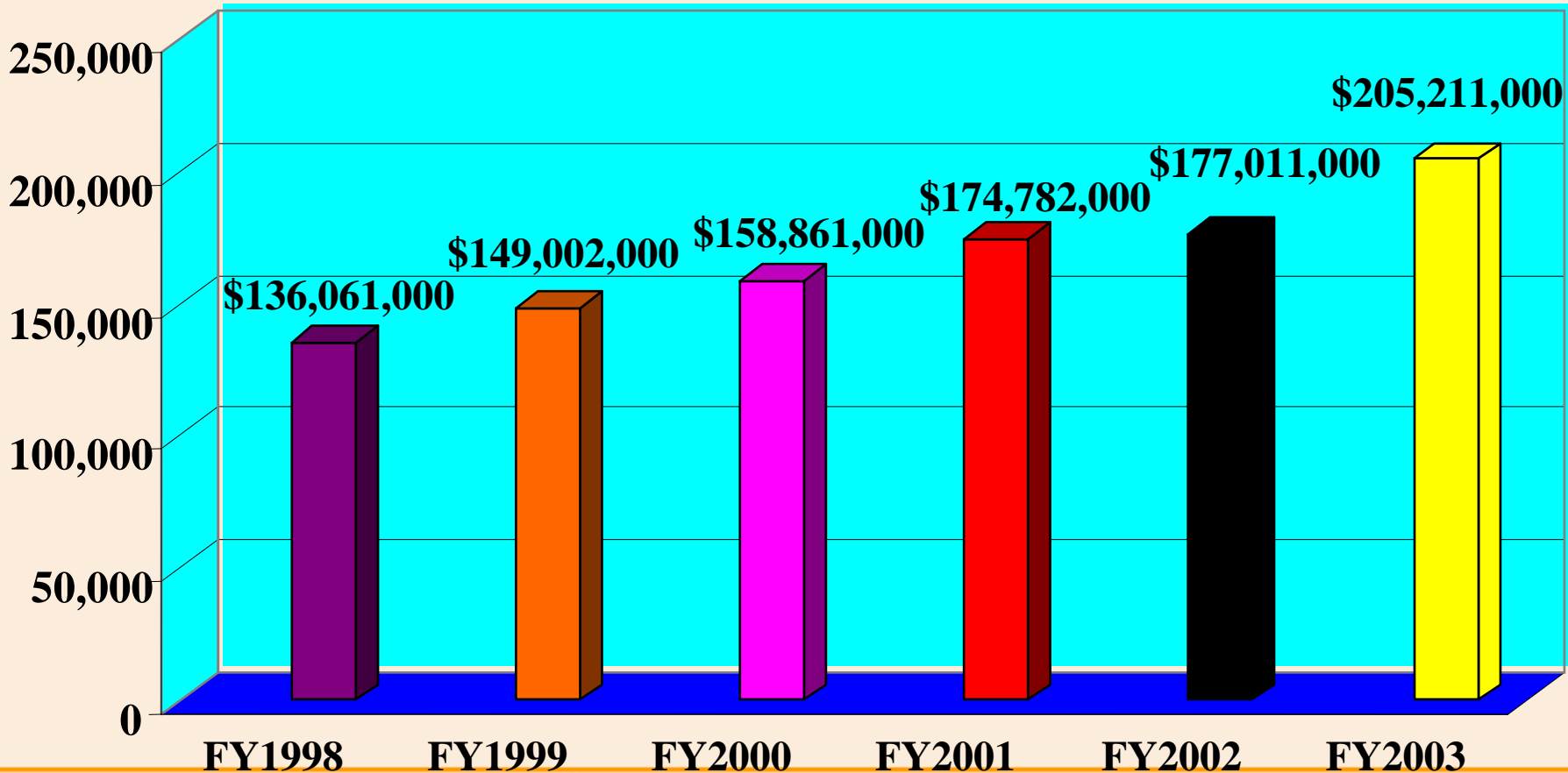
MU Enrollment Growth 2000-2004





MU IS ON THE MOVE: RESEARCH & DEVELOPMENT EXPENDITURES GREW 16% LAST YEAR

(\$, THOUSANDS)





LIFE SCIENCES RESEARCH & DEVELOPMENT EXPENDITURES (based on 2002 data from NSF)

Institution	Life Sciences R&D Expenditures	% of Total Life Sciences Expenditures
Washington University	\$374,666,000	65%
MIZZOU	\$132,161,000	23%
Saint Louis University	\$34,241,000	6%
University of Missouri - Rolla	\$342,000	0.06%
University of Missouri - KC	\$19,453,000	3.4%
University of Missouri - STL	\$9,215,000*	1.4%
Southwest Missouri State University	\$1,510,000*	0.2%
University of the Health Sciences	\$1,436,000*	0.2%
Truman State University	\$389,000*	0.06%
Southeast Missouri State University	\$112,800*	0.02%
Kirksville Osteopathic College	\$1,134,000*	0.2%
Total	\$574,659,800	

(* estimated from total research expenditures)



*National Science Foundation
Funding 2000-2003*

INSTITUTION

MIZZOU	59,738,000	35.72%
Wash. University and Med	57,998,000	34.68%
UM-Rolla	13,424,000	8.03%
Danforth Center	7,726,000	4.62%
UM-Kansas City	7,326,000	4.38%
Southwest Missouri State	3,397,000	2.03%
UM-St. Louis	10,296,000	6.16%
Northwest Missouri State	987,000	0.59%
St. Louis University	1,945,000	1.16%
Truman State	1,314,000	0.79%
Southeast Missouri State	299,000	0.18%
Central Missouri	276,000	0.17%
Missouri Western State College	294,000	0.18%
Missouri Botanical Garden	2,029,000	1.21%
Stowers	200,000	0.12%



MU IS A HIGH QUALITY RESEARCH INSTITUTION: FAST FACTS

- MU is #1 of all the AAU publics in federal research growth.
- MU is one of the top 15 universities in annual funding in life sciences research from the National Science Foundation (NSF, 2002).
- MU is #5 in plant genomics funding from NSF and Missouri as a state is #2 (NSF, 2002). NSF wrote *“The University of Missouri has become one of the leading centers in plant biology in the Nation.”*
- MU is #2 (2003) in the country in NSF research funding in elementary, secondary and informal science education.
- MU Nursing is in the top 15 of NIH funding – MU Psychology is in the top 20.



MU IS A HIGH QUALITY RESEARCH INSTITUTION: FAST FACTS

- MU's animal model based Exercise Physiology research program is ranked #1 in the Nation
- Animal Reproductive Biology Program is ranked #1 in the Nation
- MU is a recognized leader in Comparative Medicine – Chosen to house major NIH research and resource centers for swine, rats and mice. MU is also strong in bovine genomics. (ranked in top 2 or 3 by NIH Program Manager)
- MU is a national leader in radio-pharmaceutical development – many major cancer drugs are produced here.
- MU houses the #1 ranked School of Journalism in the world.



MU IS A HIGH QUALITY RESEARCH

INSTITUTION: RECENT AWARDS

- \$31M Award for new Journalism Center from Reynolds Foundation
- \$10M Cancer Imaging Center from NIH
- \$10.4M National Swine Research Resources Center from NIH
- \$10M National Center for Research in Math Education from NSF
- \$9.0M Regional Biosafety Level 3 Research Laboratory – and part of Regional Bioterrorism Center from NIH
- \$5.0M DOE Award in Nuclear Science
- \$3.4M NIH Program in Cardiovascular Research
- \$1.3M NSF Nanoscience Interdisciplinary Research Teams (NSF)
- \$600K NSF Partnership for Innovation
- \$15M in new NSF Plant Biology awards in 2004
- \$1.2M NSF ITR award



Technology Transfer and Industry Relations

- Partnering with Industry:
 - Nearly \$20M of private sector sponsored research in 04
 - Strong relationships with Monsanto and Boeing (Boeing gave us a \$20M patent last year)
- Transferring technology – from 2001-2004
 - 126 Patents filed
 - 46 patents issued
 - 59 licensing agreements signed
 - Nearly \$11 million in licensing revenue
 - #54 in licensing revenue (ahead of OSU and PSU)
 - Major new “home run” technology - Rapinex



MU TECHNOLOGY SUCCESS STORY: DRUG DELIVERY SYSTEM FOR ULCERS

**•Jeffrey Phillips, MU
Department of Surgery,
recently developed a new,
more effective treatment for
stress ulcer related gastro-
intestinal bleeding in
critically ill patients**

**•Basis of a new start-up
company that went public
(IPO) in June, 04**



POTENTIAL SUCCESSES: NEW START-UPS AT MU



Andrologika – new technology for fertility testing in humans and animals (Peter Sutovsky, Animal Science)



Earth Image Solutions, LLC utilizes advanced satellite and airborne digital imaging systems to provide high-resolution imagery and digital geospatial information products (Curt Davis, Electrical and Computer Engineering)



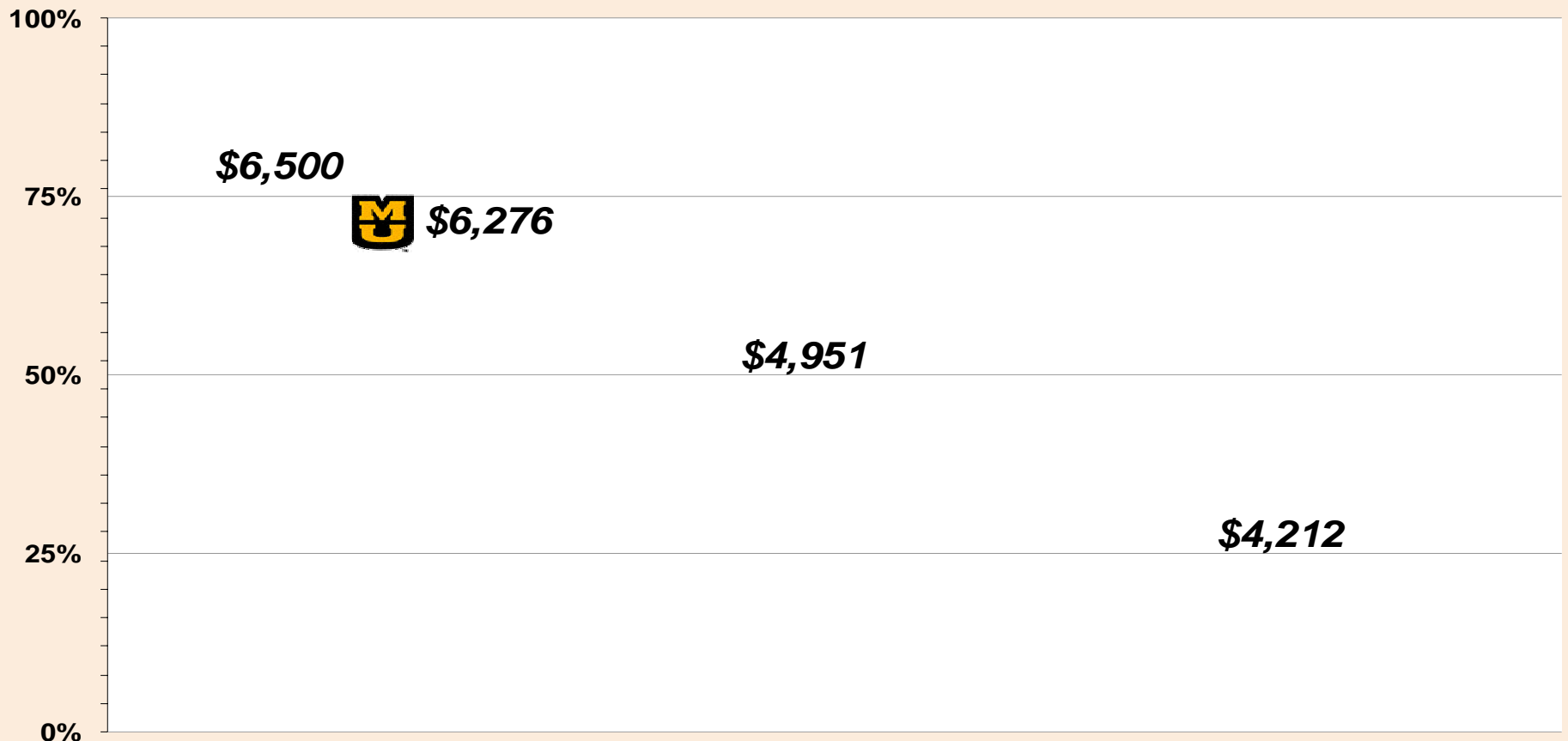
Allocation of FY2005 New State Funding \$12M State Appropriations

University of Missouri - St. Louis (to address equity)	\$2.7M
Student Access through Student Financial Aid*	\$4.0M
Endowed Chairs*	\$1.0M
Strategic Initiatives*	<u>\$4.0M</u>
	\$11.7M

* To be allocated among campuses



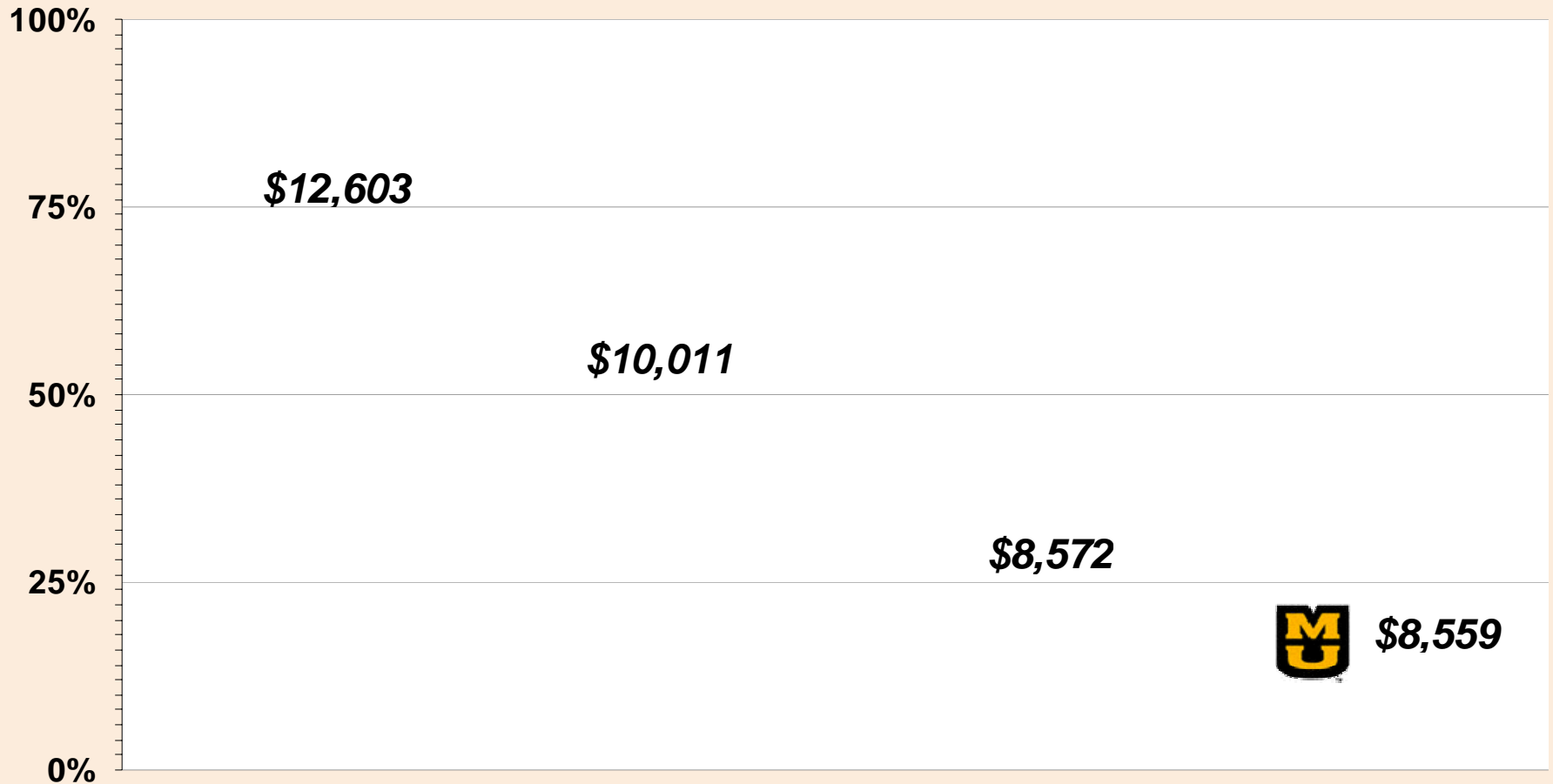
Education Fees Compared to other AAU Public Institutions FY2005



Cost per 30 undergraduate resident credit hours

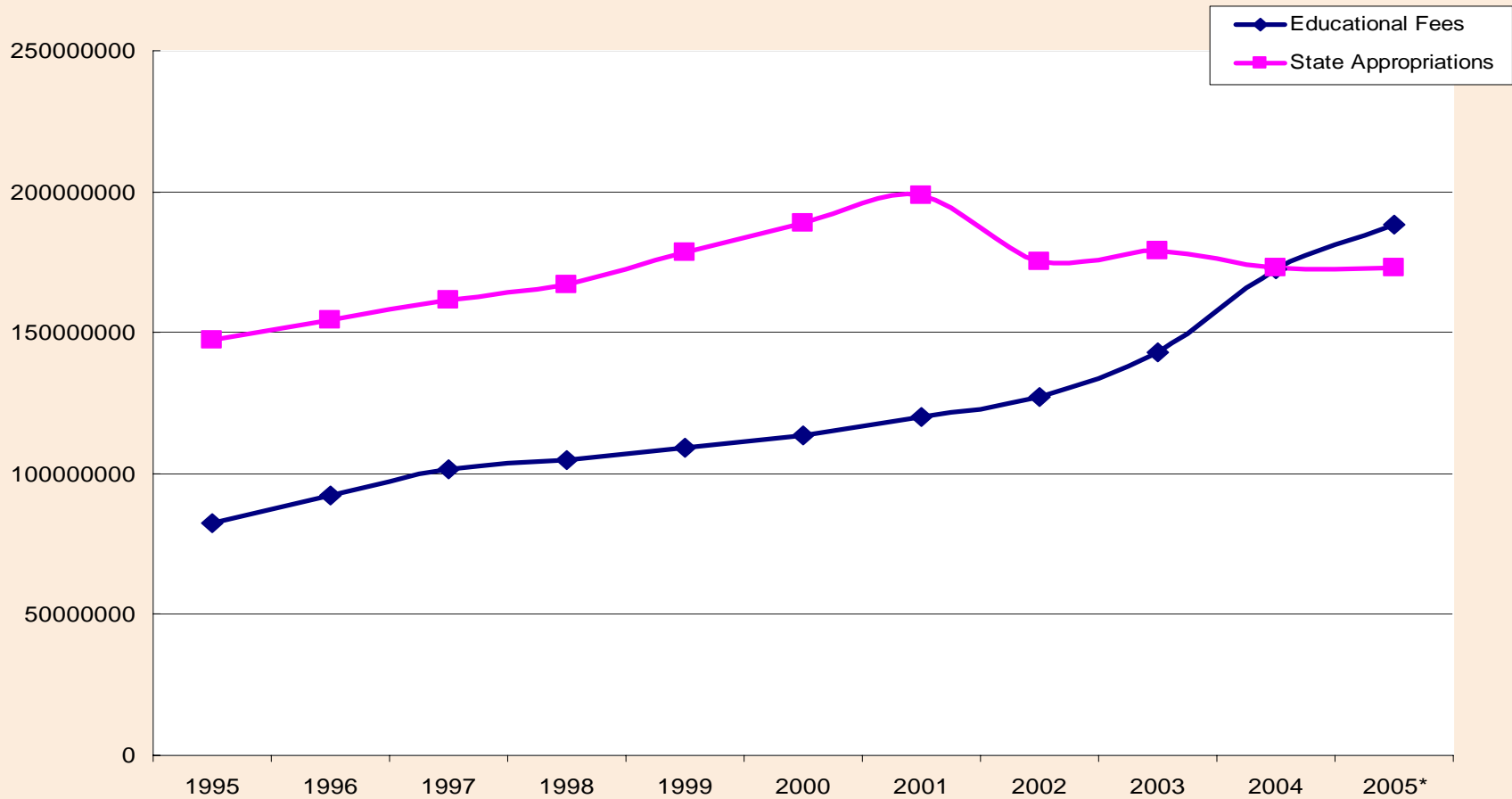


State Support per Student Compared to other AAU Public Institutions FY2003





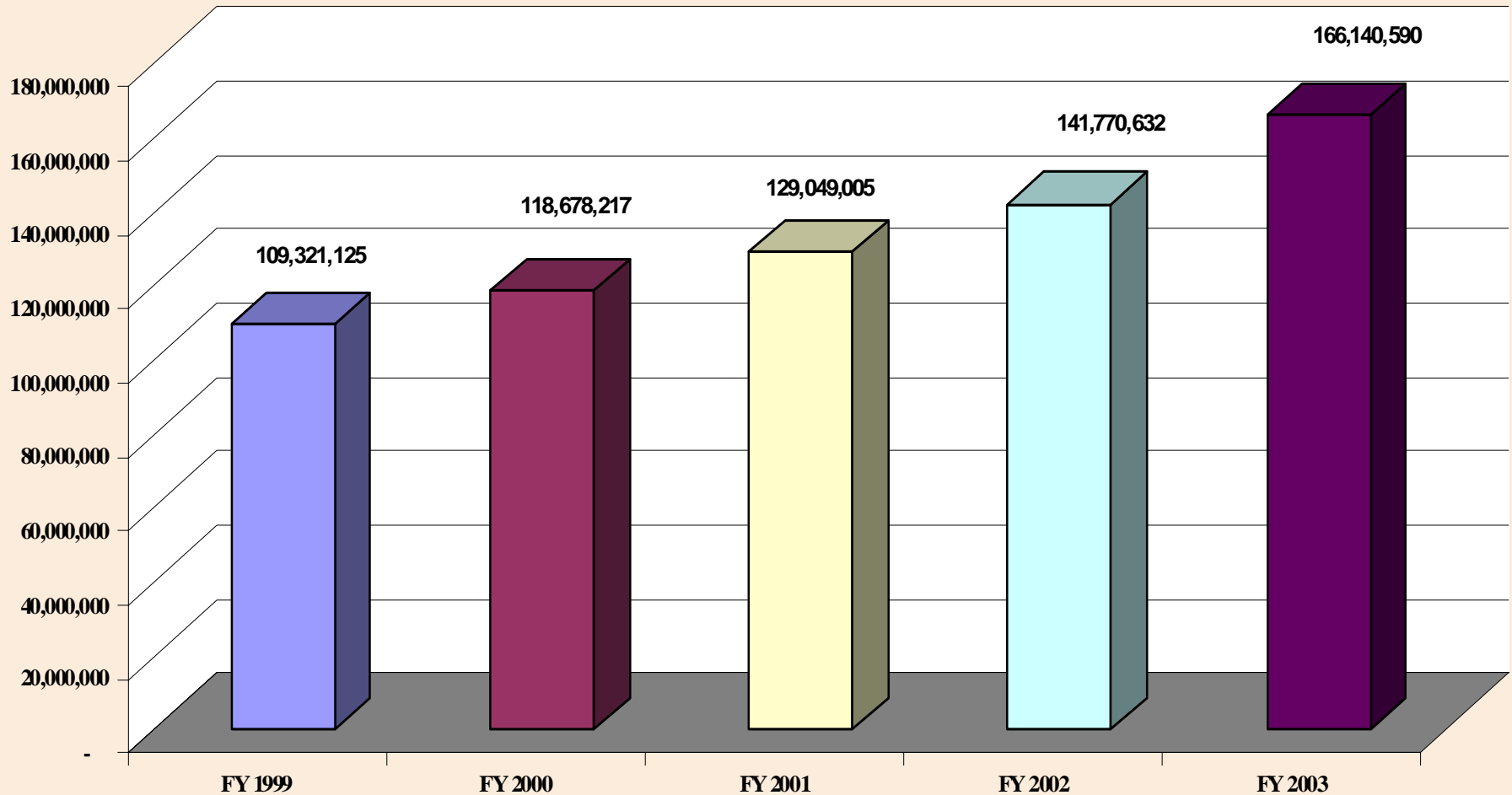
MU Educational Fees vs. State Appropriations



* 2005 Data is Projected



MU Total Externally Sponsored Expenditures; by Fiscal Year





Immediate Steps

- Continue Reallocation
- Implement Internationalization Model
- Continue Strategic Alignment of MU Extension
- Initiate Competitive Undergraduate Research and Creativity Awards
- Engage Faculty in University of the Future



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