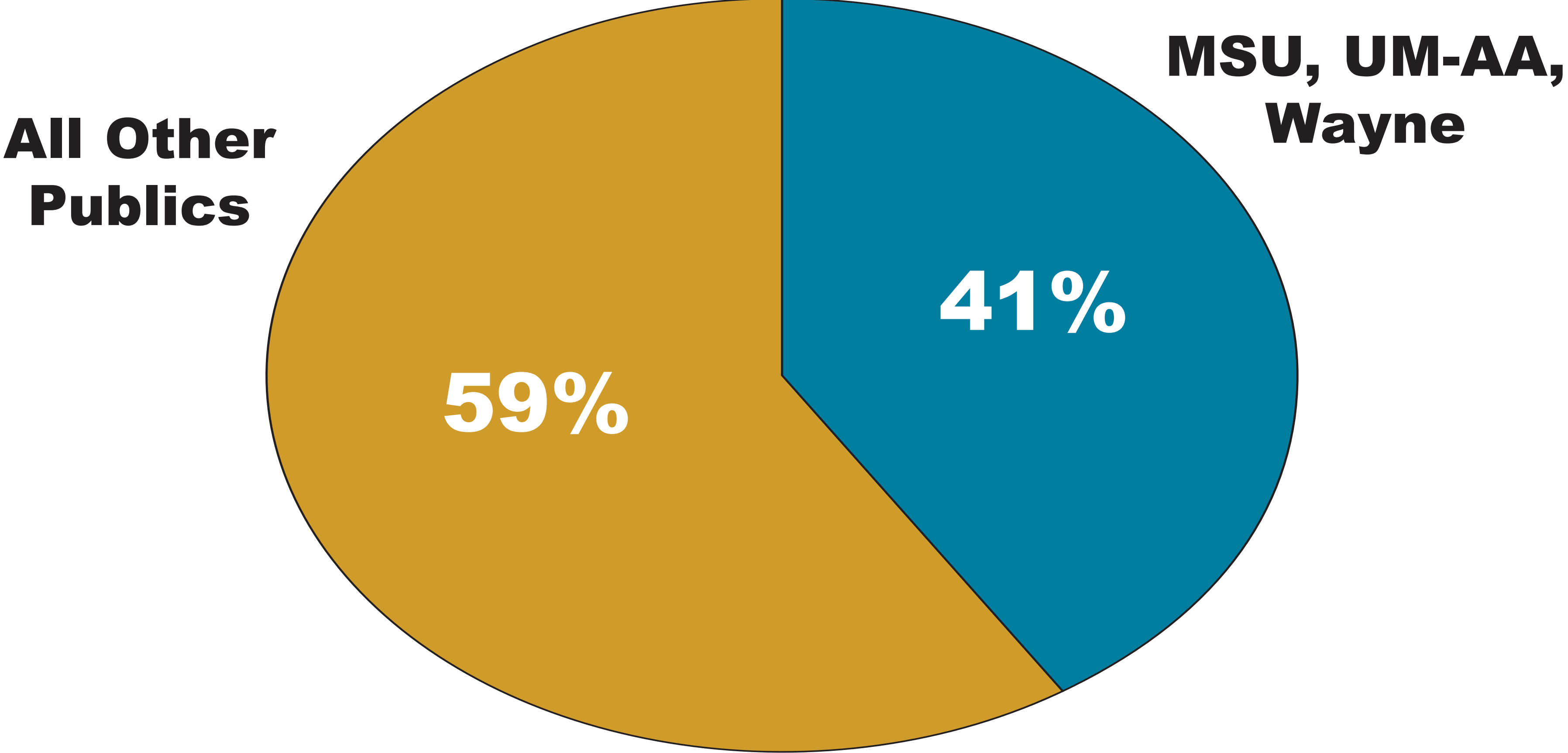
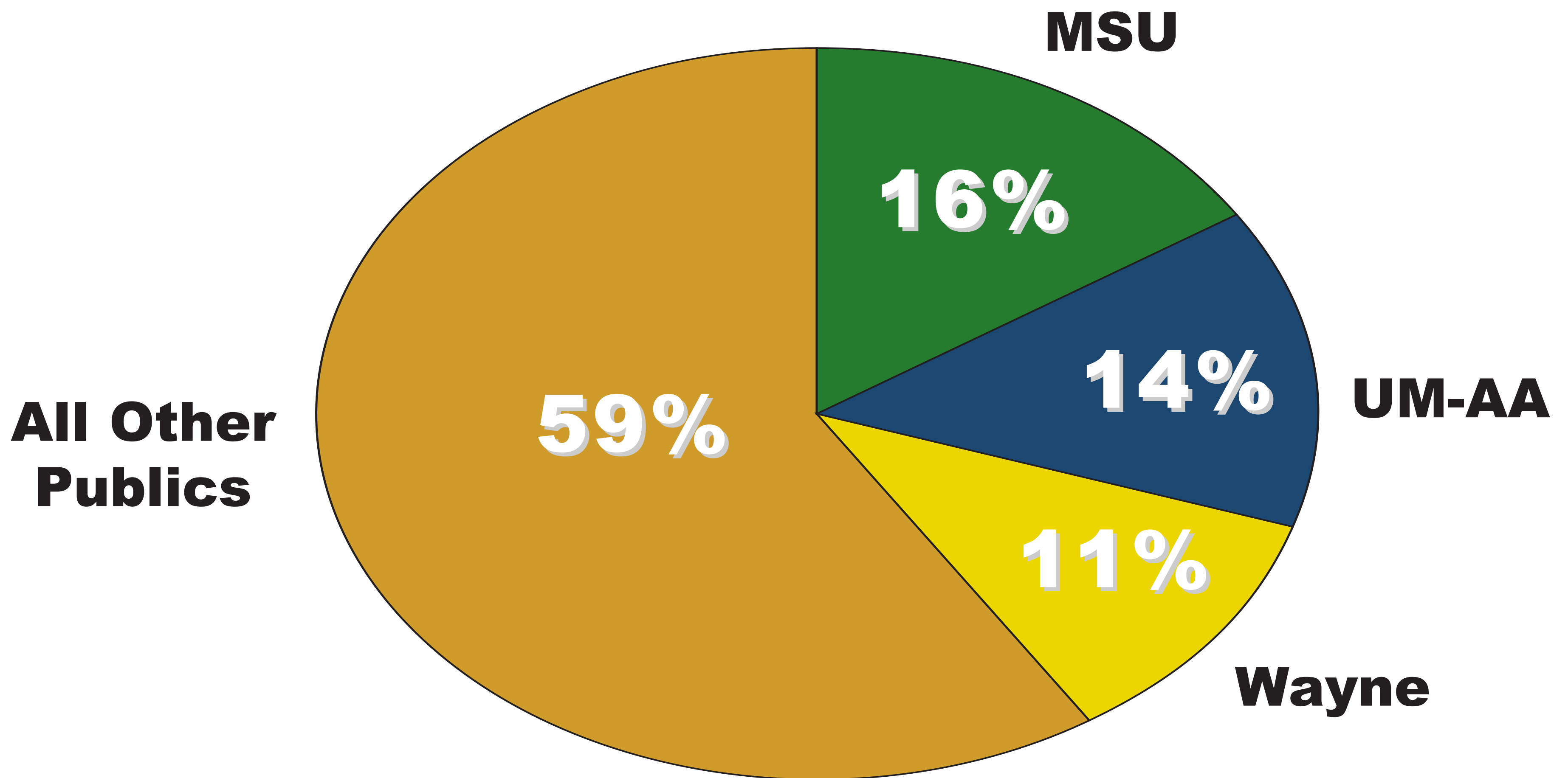


# **Total University Enrollments Fall 2005 (preliminary)**



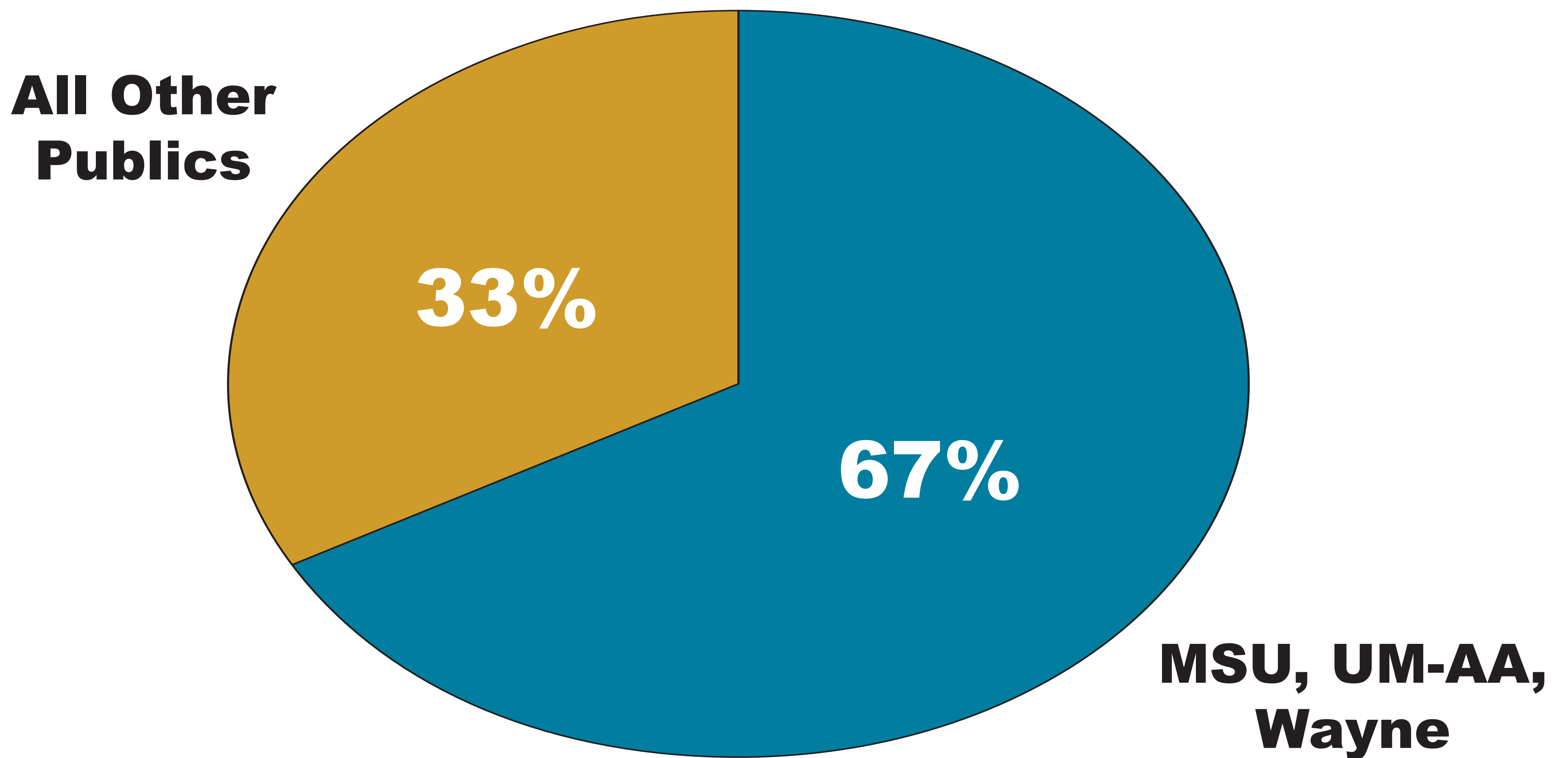
**Preliminary Headcount: 288,314**

# Student Head Count Fall 2005 (preliminary)



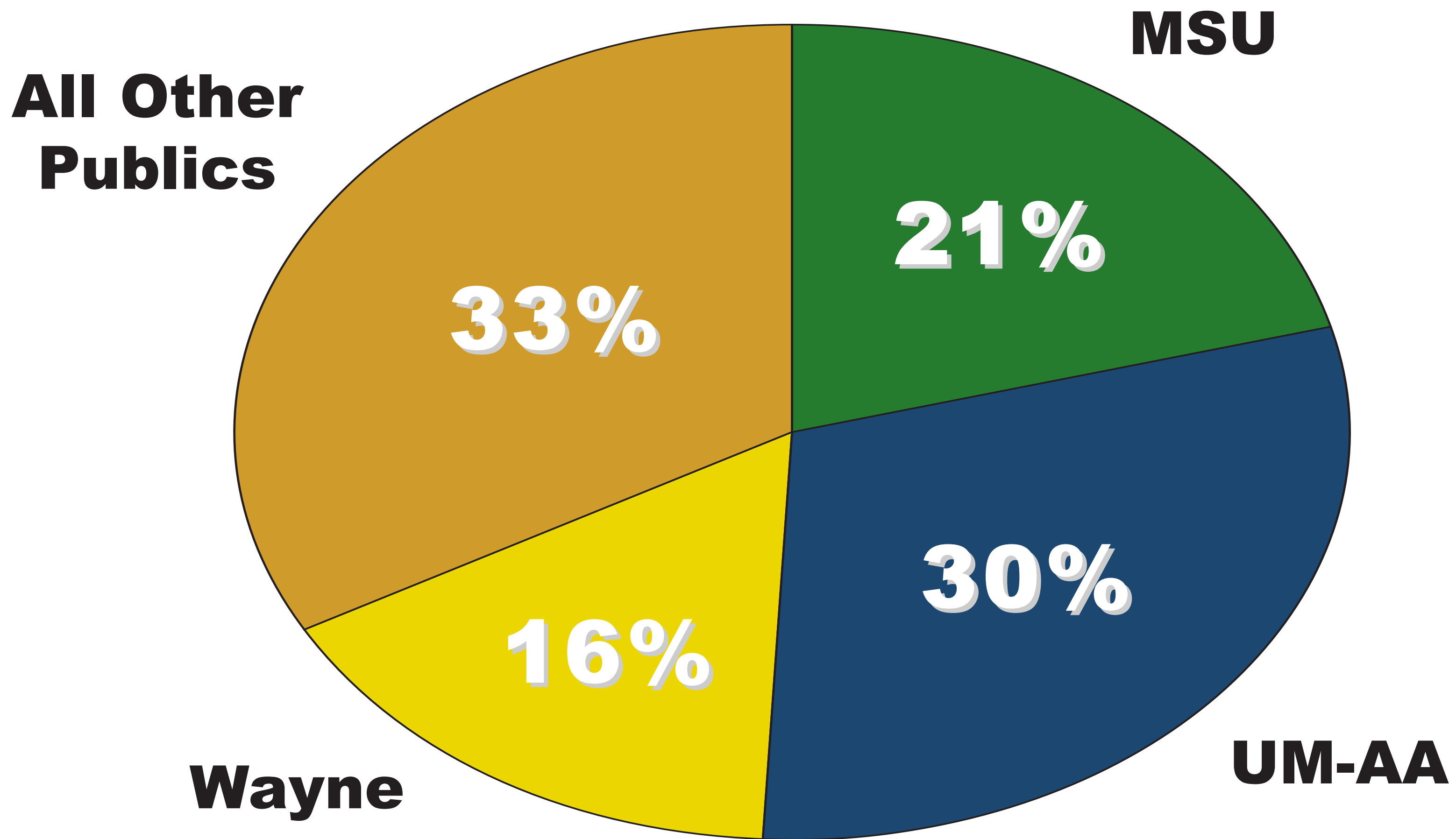
**Preliminary Headcount: 288,314**

# Total International Enrollments FY2004



**Total International Students: 15,653**

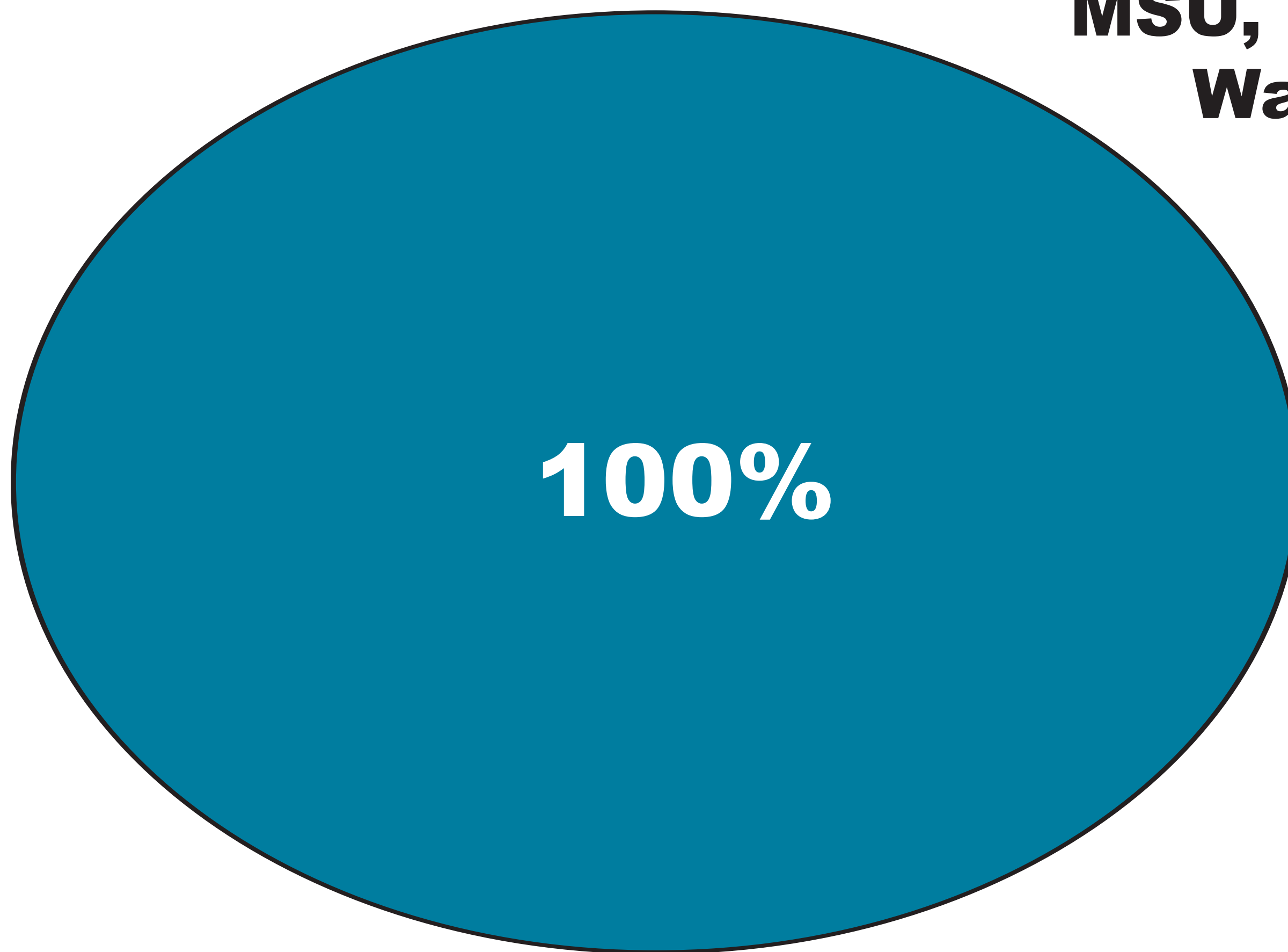
# International Students Fall 2004



**Total International Students: 15,653**

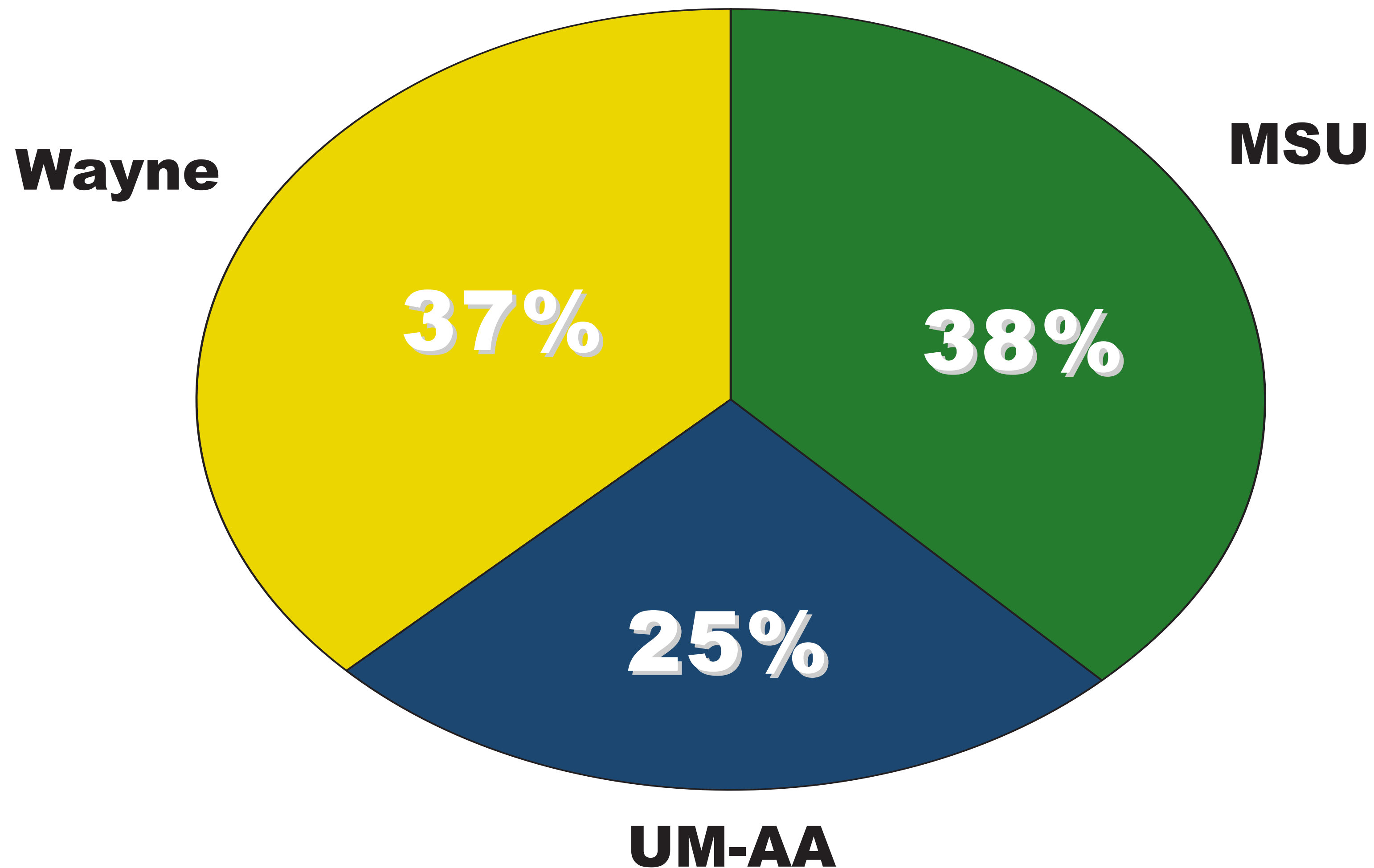
# **Total Medical Degrees FY2004**

**MSU, UM-AA,  
Wayne**



**Total Medical Degrees Awarded: 665**

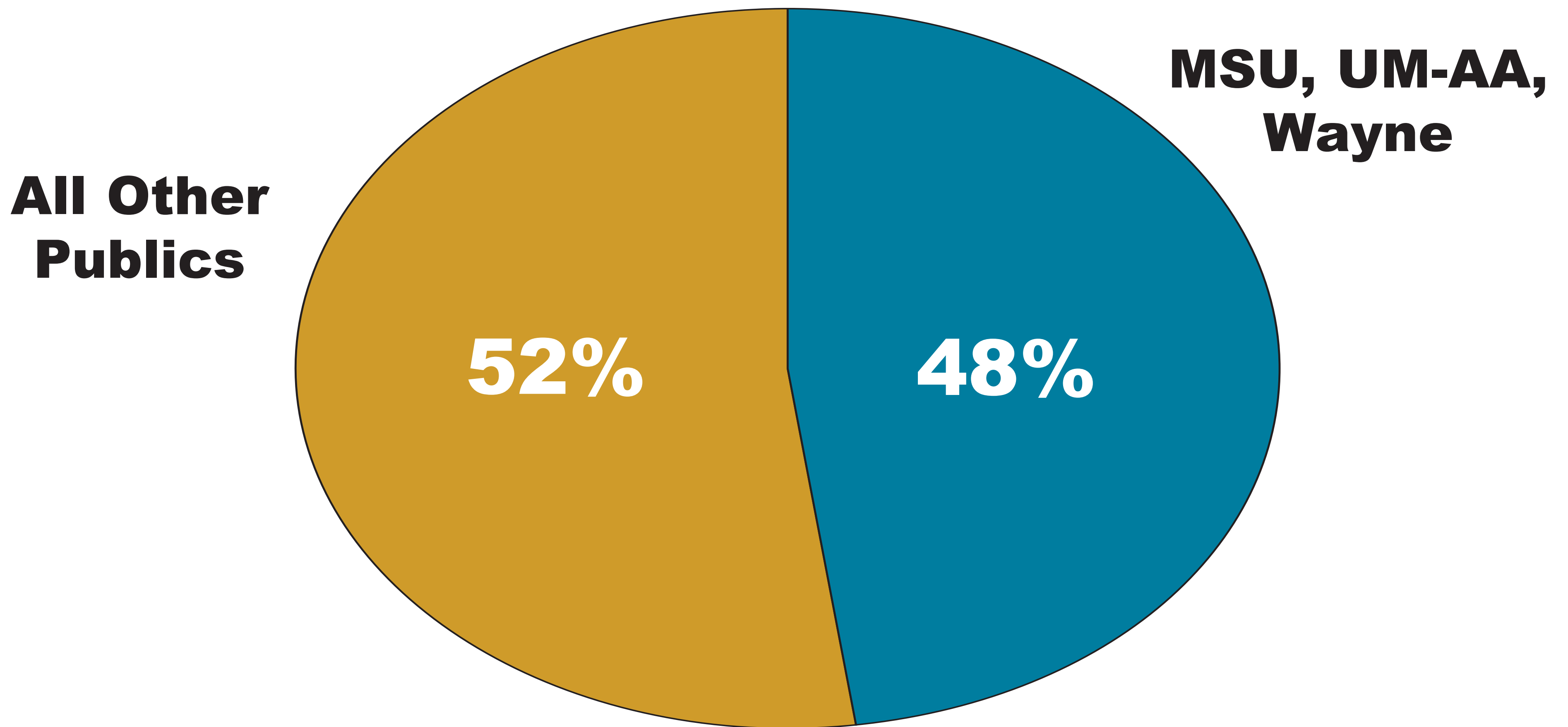
# Medical Degrees Awarded FY2004



**Total Medical Degrees Awarded: 665**

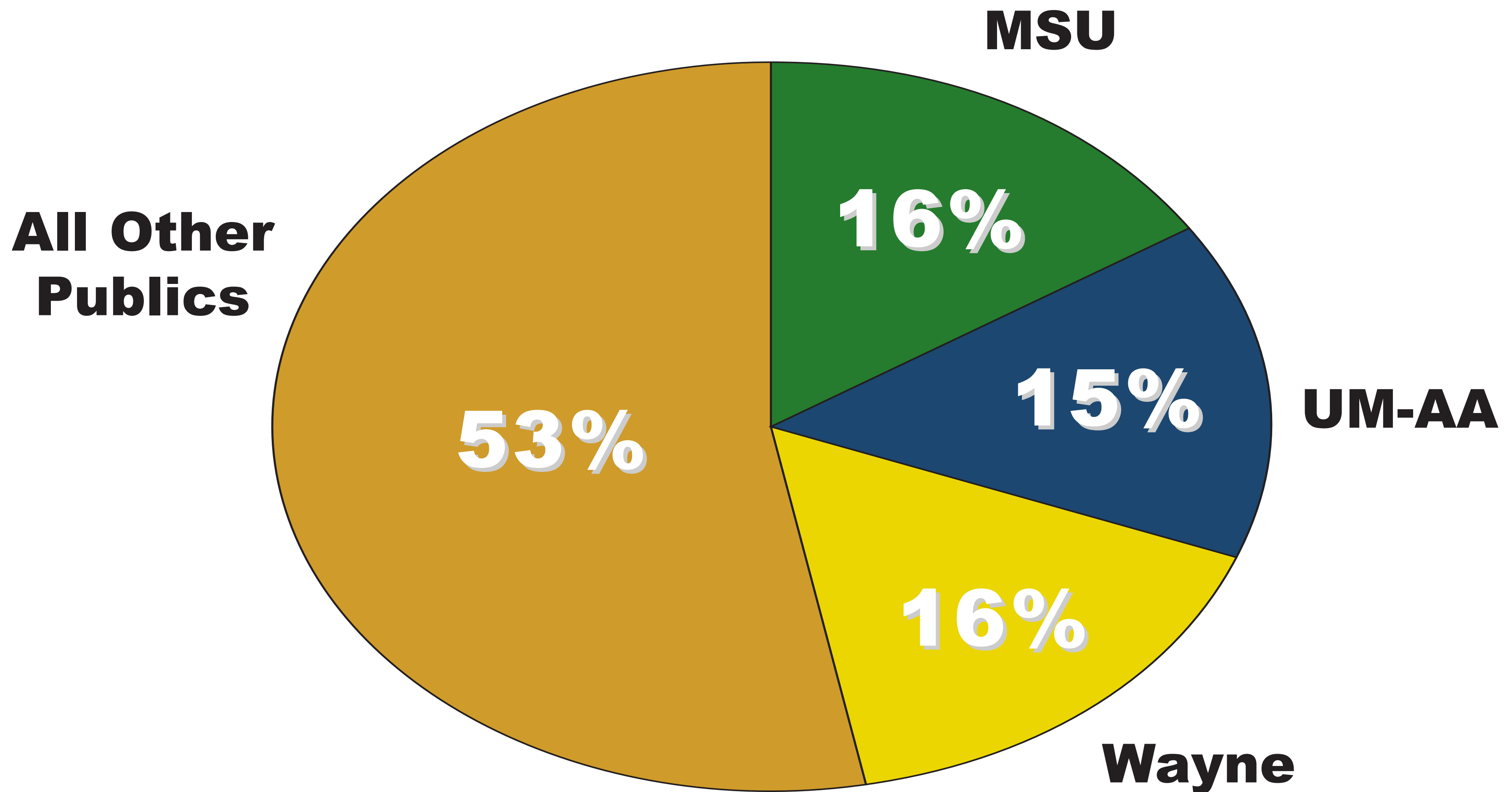
Does not include 89 Veterinary Medicine degrees for MSU or 103 Dentistry degrees for UM-AA

# Total Health Degrees FY2004



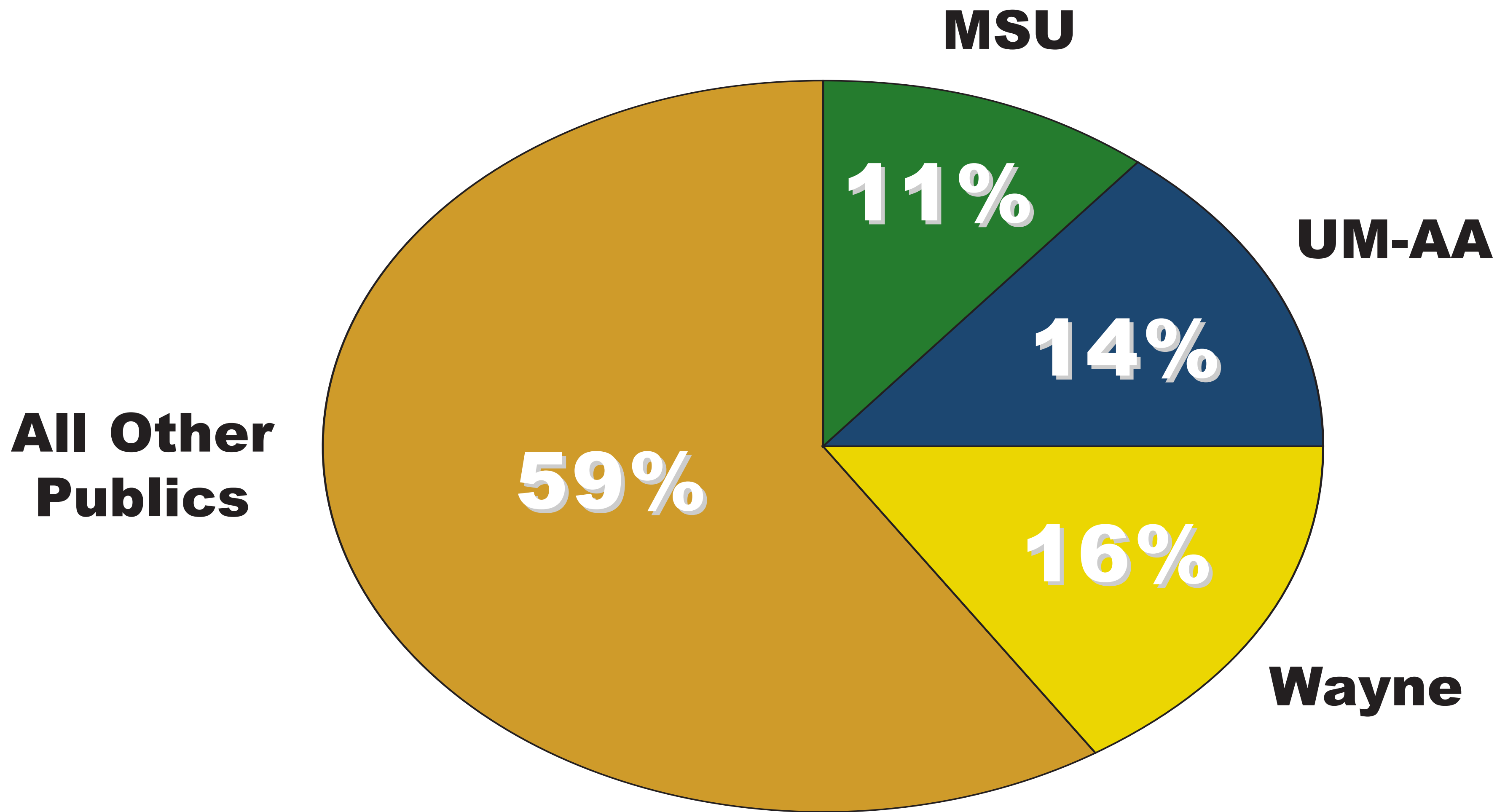
**Total Health Degrees Awarded: 5,025**

# Health Degrees Awarded FY2004



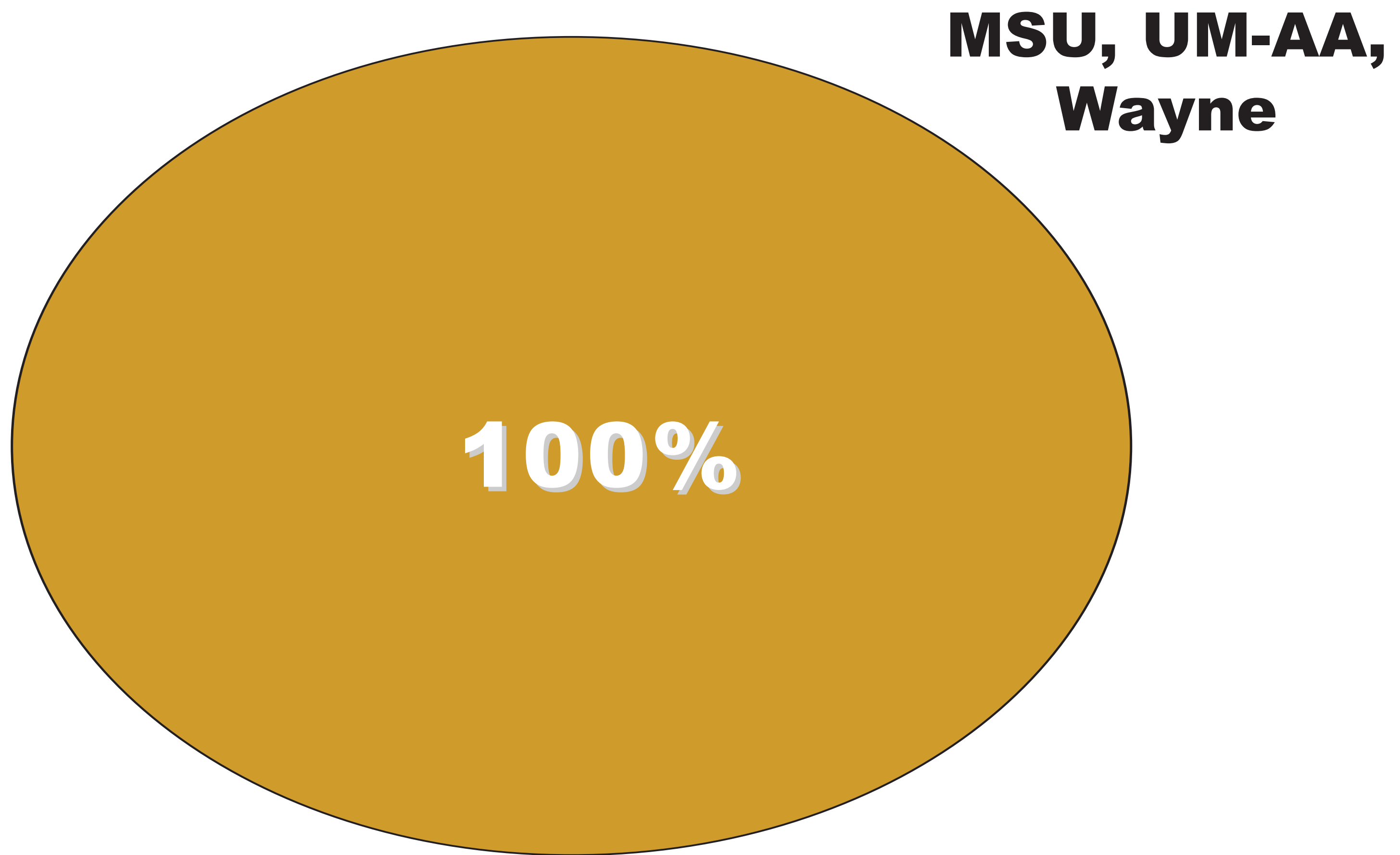
**Total Health Degrees Awarded: 5,025**

# Total Nursing Degrees FY2004



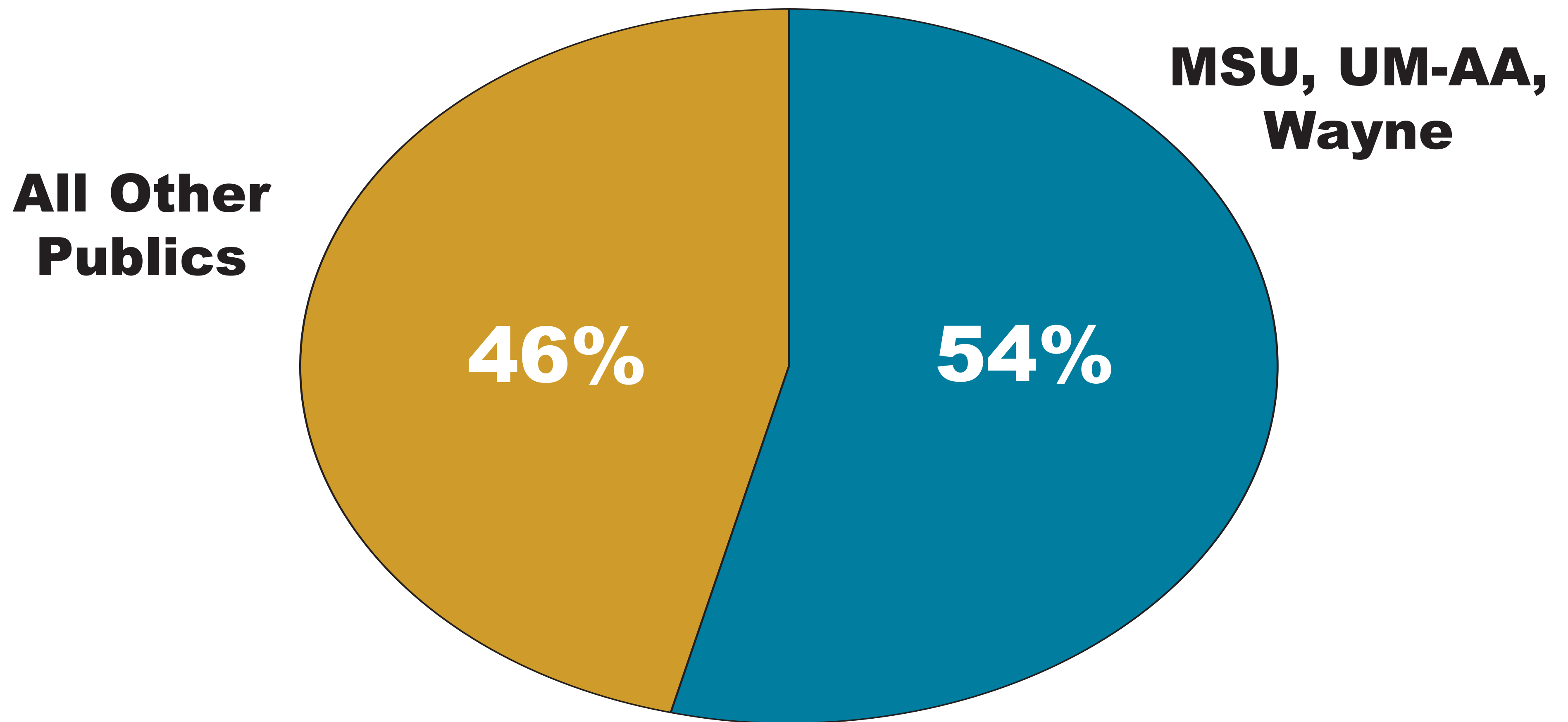
**Total Nursing Degrees Awarded: 1,208**

# **Total Ph.D. Nursing Degrees Awarded**



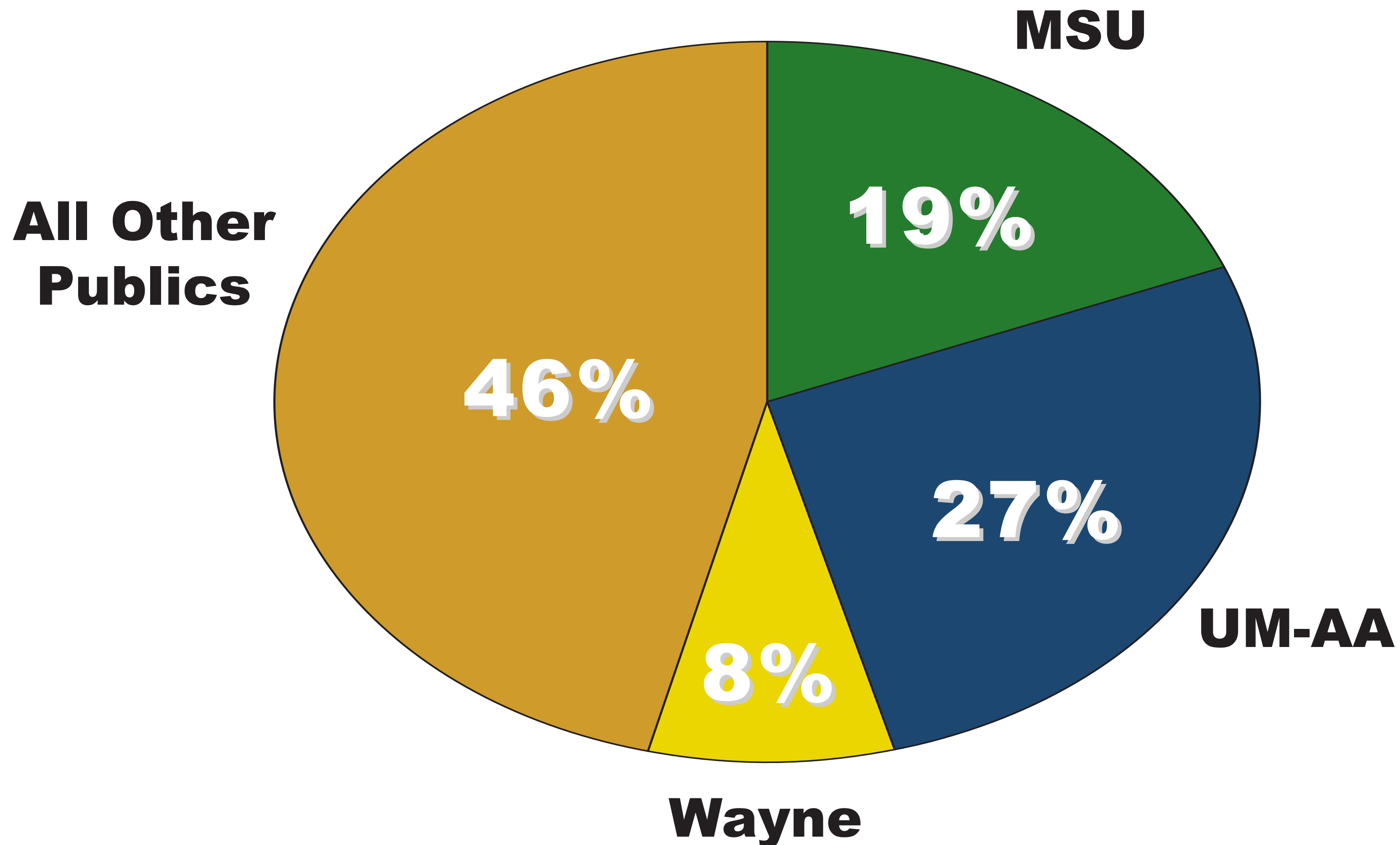
**Total Ph.D. Nursing Degrees Awarded: 1,208**

# Total Science and Engineering Degrees FY2004



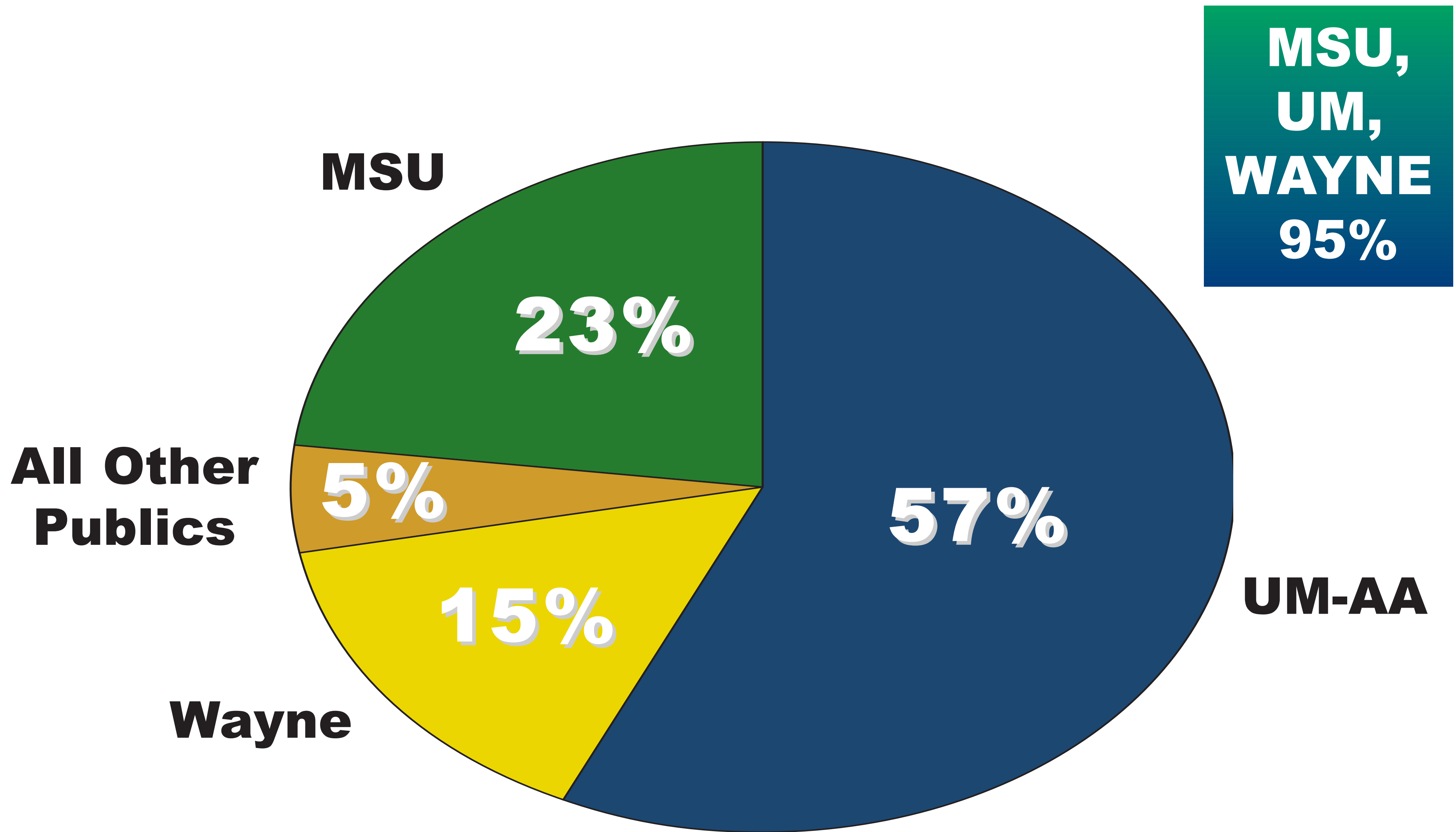
**Total Science and Engineering Degrees Awarded: 13,138**

# Science and Engineering Degrees Awarded FY2004



**Total Science and Engineering Degrees Awarded: 13,138**

# Academic R&D Expenditures FY2003



**Total Academic R&D Expenditures: \$1,382,330,000**

# Technology Transfer FY2005

	<b>MSU</b>	<b>UM-AA</b>	<b>WAYNE*</b>
<b>Invention Disclosures</b>	<b>124</b>	<b>287</b>	<b>55</b>
<b>License/Option Agreements</b>	<b>48</b>	<b>86</b>	<b>15</b>
<b>Patent Applications</b>	<b>83</b>	<b>128</b>	<b>28</b>
<b>Start-ups</b>	<b>7</b>	<b>7</b>	<b>1</b>

**\*estimates**

# Technology Transfer 5-Year Totals

	<b>MSU</b>	<b>UM-AA</b>	<b>WAYNE*</b>
<b>Invention Disclosures</b>	<b>495</b>	<b>1248</b>	<b>221</b>
<b>License/Option Agreements</b>	<b>122</b>	<b>360</b>	<b>54</b>
<b>Patent Applications</b>	<b>299</b>	<b>622</b>	<b>116</b>
<b>Start-ups</b>	<b>25</b>	<b>47</b>	<b>8</b>

**\*estimates**

# **The World is Flat**

**“I say march forward...  
How so? It starts with  
America’s research  
universities, which spin  
off a steady stream of  
competitive experiments,  
innovations, and scientific  
breakthroughs – from  
mathematics to biology  
to physics to chemistry.  
It is a truism, but the  
more educated you are,  
the more options you will  
have in a flat world.”**

**Tom Friedman,  
*The World is Flat* (page 243)**

# **Michigan's Competitive Advantage**

**Three internationally recognized research universities with medical schools:**

- **Michigan State University**
- **University of Michigan**
- **Wayne State University**

# **Transforming Michigan's Economy**

## ***Expansion Management Magazine:***

- **A work force with master's, Ph.D. and medical degrees**
- **Workers with science and engineering degrees**
- **Presence of major research university and other colleges**
- **University R&D spending on science and engineering**

# **Michigan's Top Research Universities: Assets for Transforming Michigan's Economy**

- **Research capacity**
- **Total students**
- **Engineering and science students**
- **International students**
- **Medical students: D.O., M.D.,  
D.V.M., D.D.S., Ph.D. Nursing**
- **Tech transfer = company and job  
creation**

# **Constitution of Michigan**

## **Article VIII**

- **“§ 5 University of Michigan, Michigan State University, Wayne State University...”**
- **“§ 6 Other institutions of higher education...”**
- **“§ 7 Community and junior colleges...”**

***Separate appropriations to match  
separate missions***

# **Carnegie Classifications**

**MSU, UM & WSU:  
“very high research”**

# **Global Competition**

*Academic Rankings of World Universities • Shanghai Jiao Tong University*

- **“[F]ind the gap between Chinese universities and world-class universities, particularly in terms of academic or research performance”**
- **Analyzed & ranked 2000 universities worldwide**
- **2005 rankings include UM at No. 21, MSU at No. 77 and WSU at No. 298**
- **Chinese goal: replace 50 of top 100 universities with Chinese universities**

# **Prima Civitas & MSU**

- **David Hollister, CEO**
- **Region-building in 13 counties**
- **W.I.R.E.D. Grant**
- **Post-petroleum economy (biomass)**
- **Culture and arts development**
- **Collaboration across Michigan**

# **Why Distinguish the Research Universities with Medical Schools?**

- **Transforming Michigan's economy**
- **Accountability: "Focus and measure" for rapid results**
- **Good public policy at no cost**

# **Why Are We More Expensive?**

- **Outstanding faculty and researchers (subject to raiding)**
- **Internationally competitive infrastructure**
- **Regulatory compliance requirements**
- **Clinical care obligations**
- **Rapid technology change forces iterative recapitalization**
- **Dr. Daniel Klionsky**

# **Ann Arbor SPARK and The University of Michigan**

- **Vision: Lead the Ann Arbor Regional to become a nationally known center for innovation, vibrant business growth and world class talent**
- **CEO: Michael Finney**
- **Annual Budget: \$2 million**
- **UM commitment: \$1 million over 5 years. Other investing partners include Pfizer, Dow Foundation, City of Ann Arbor Washtenaw County, MEDC and others**
- **Initiatives include business accelerator to assist new start-ups, including ones spun off from the UM; entrepreneurial talent pool recruitment; expansion of state-wide pre-seed funding, wet-lab and equipment for life science business development**
- **Partner with Automation Alley, Detroit Renaissance and SW Michigan First, among others to assist state-wide economic development efforts**



TM

WAYNE STATE RESEARCH & TECHNOLOGY PARK

**TECHTOWN**

WAYNE STATE  
UNIVERSITY

# The Urban Impact

**In just one year, Wayne State University generates more than \$1 billion in economic activity in Wayne, Oakland, Macomb, Monroe, Livingston, St. Clair and Washtenaw counties. Here's how some of that money circulates through the region:**

- Wayne State employs more than 7,500 full-and part-time staff who receive about \$360 million in wages per year. The university is Detroit's 11th largest employer.**
- Faculty and staff spending contributes an estimated \$338 million per year to the local economy.**
- Student spending, excluding tuition and fees paid to the university, adds up to \$386 million a year.**
- Nearly 115,000 visits to the university for special events and activities result in \$24 million spent in the local community.**
- As a buyer of goods and services, Wayne State adds \$328 million to the local economy.**
- Total net new tax revenue to the state as a result of Wayne State University is approximately \$140 million per year. This equals a return of 64.5 cents per dollar on the \$216.9 million appropriated to Wayne State in 2004.**