

Graduate Education in Tennessee and its Role in the State Economy

Tennessee Higher Education
Commission

Spring Quarterly Meeting
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Research Director

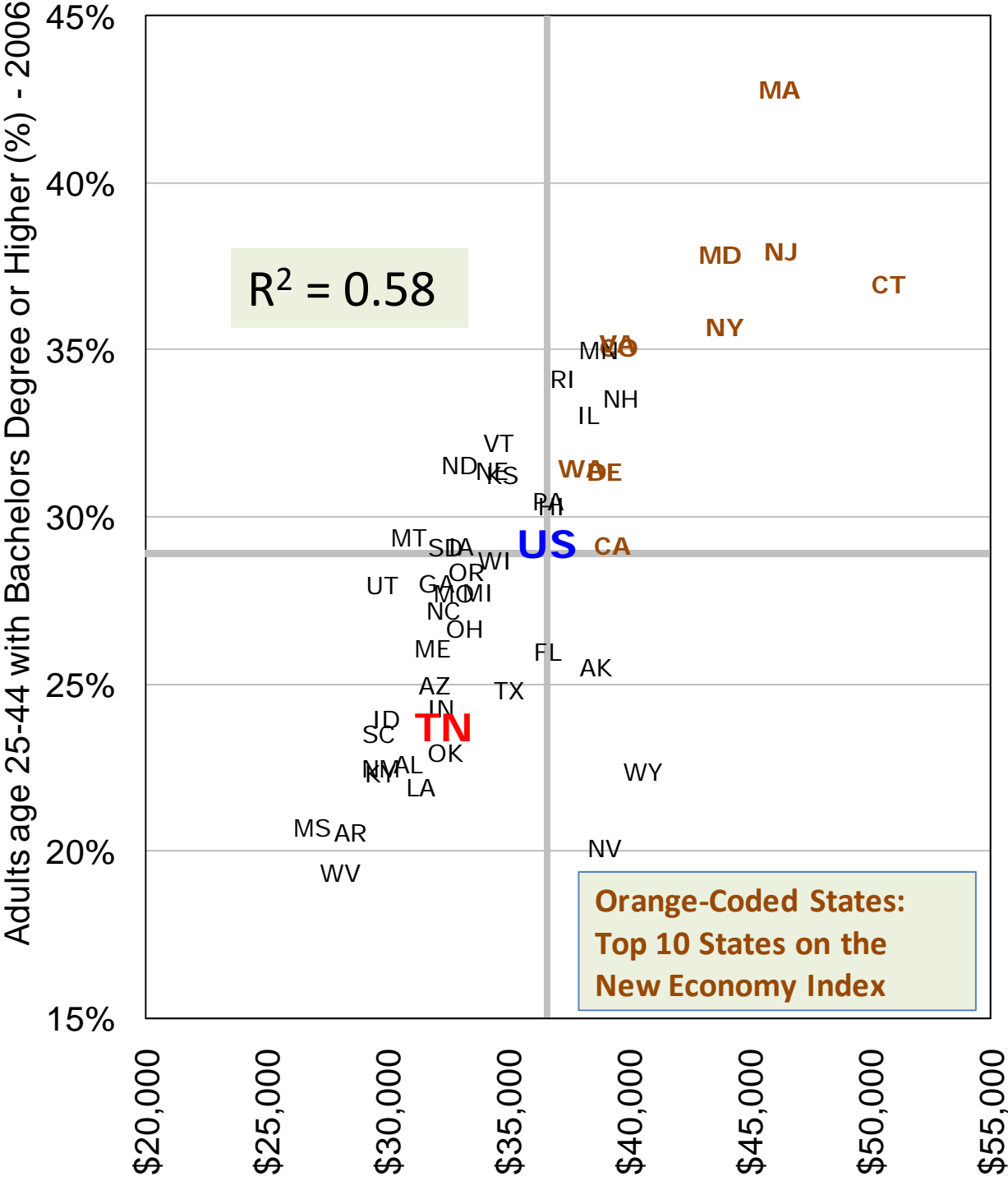
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1. Social Benefits of Higher Education

Social Benefits

Figure 1-A:

Educational Attainment (Bachelors and Up) and Personal Income per Capita, 2006



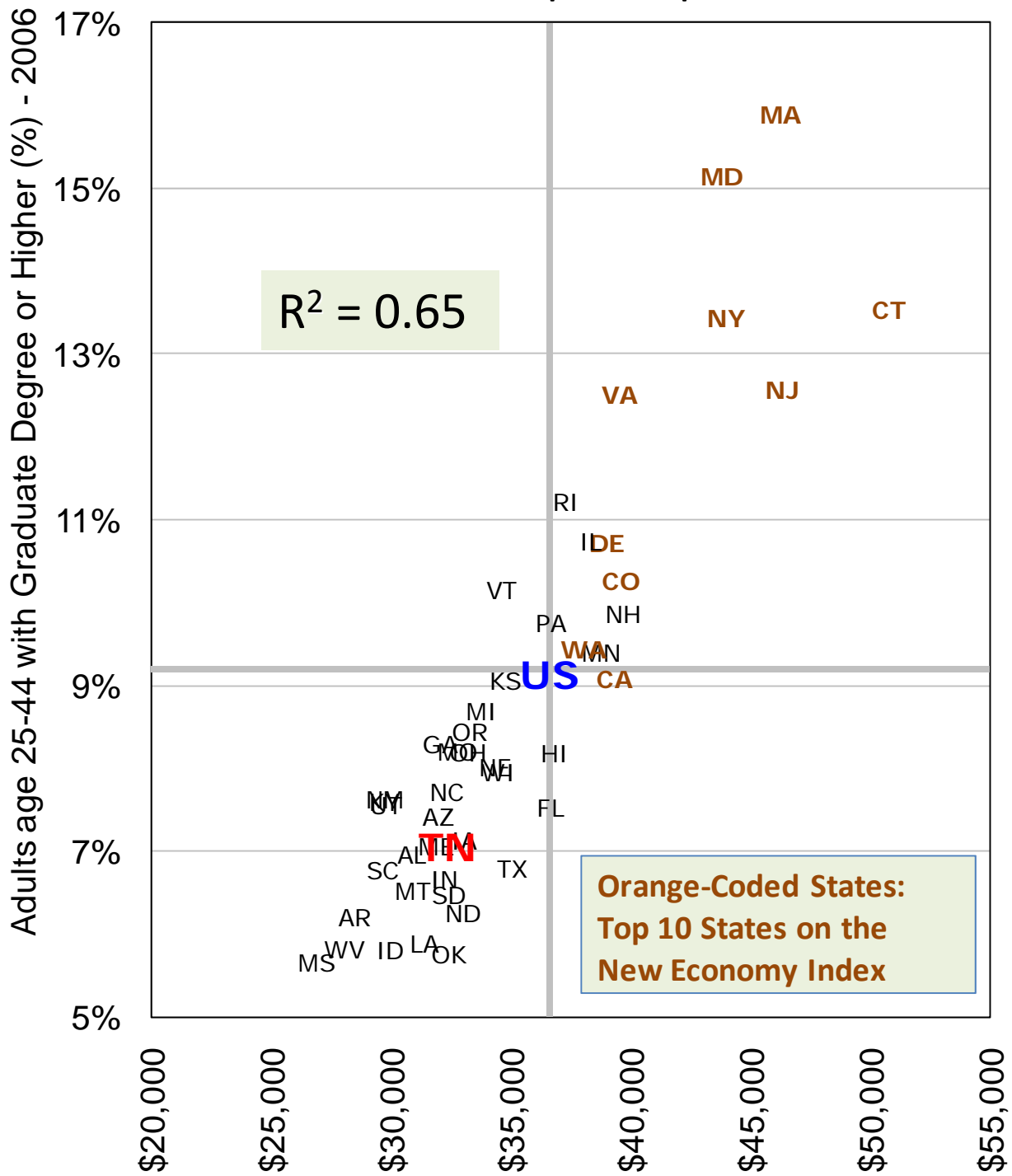
Personal Income per Capita - 2006

Source: HigherEdInfo.org

Social Benefits

Figure 1-B:

Educational Attainment (Masters and up) and Personal Income per Capita, 2006

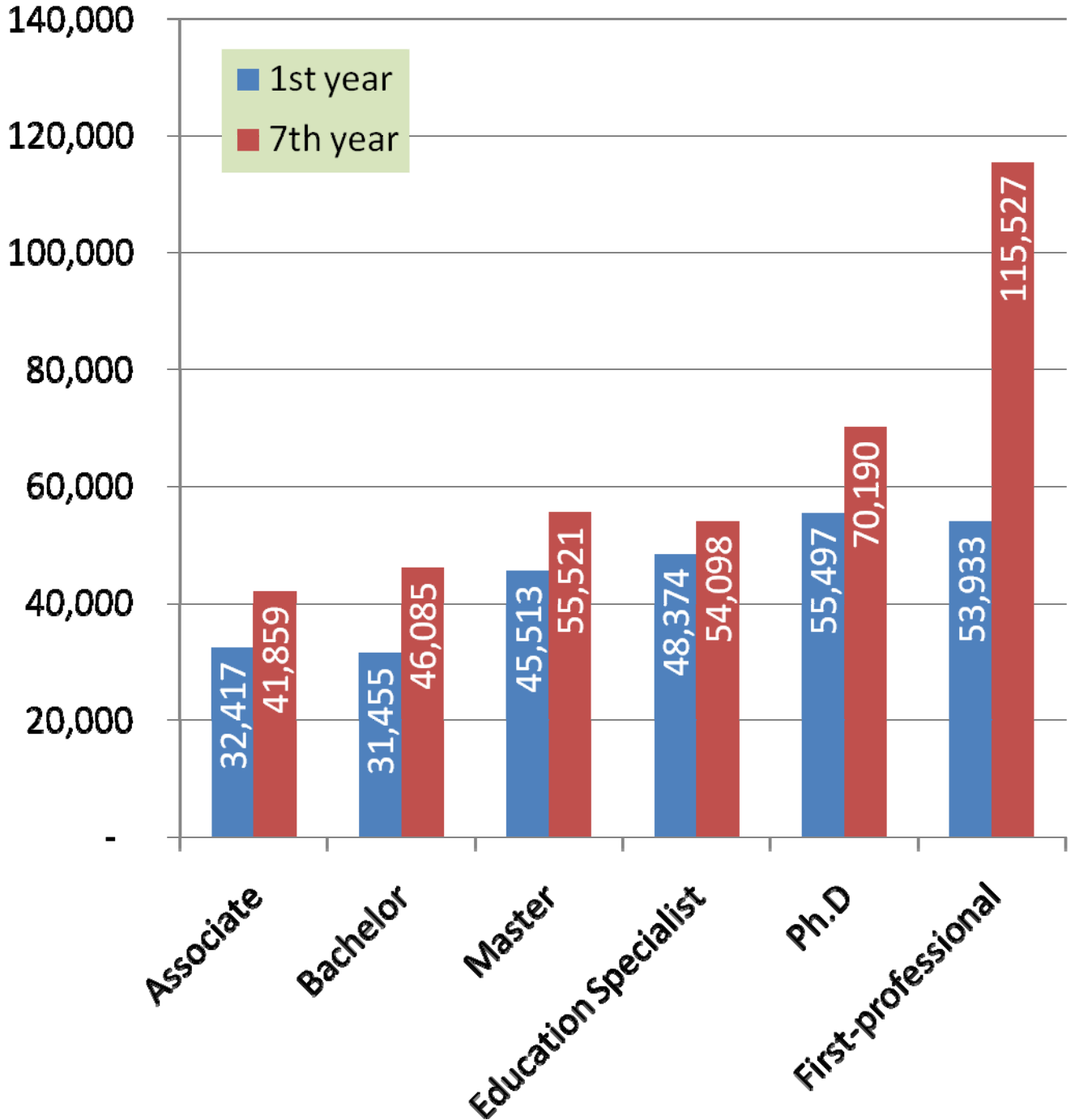


2. Private Benefits of Higher Education

Private Benefits

Figure 2:

Average Tennessee Graduate's Wage by Degree Level, 1997-2004



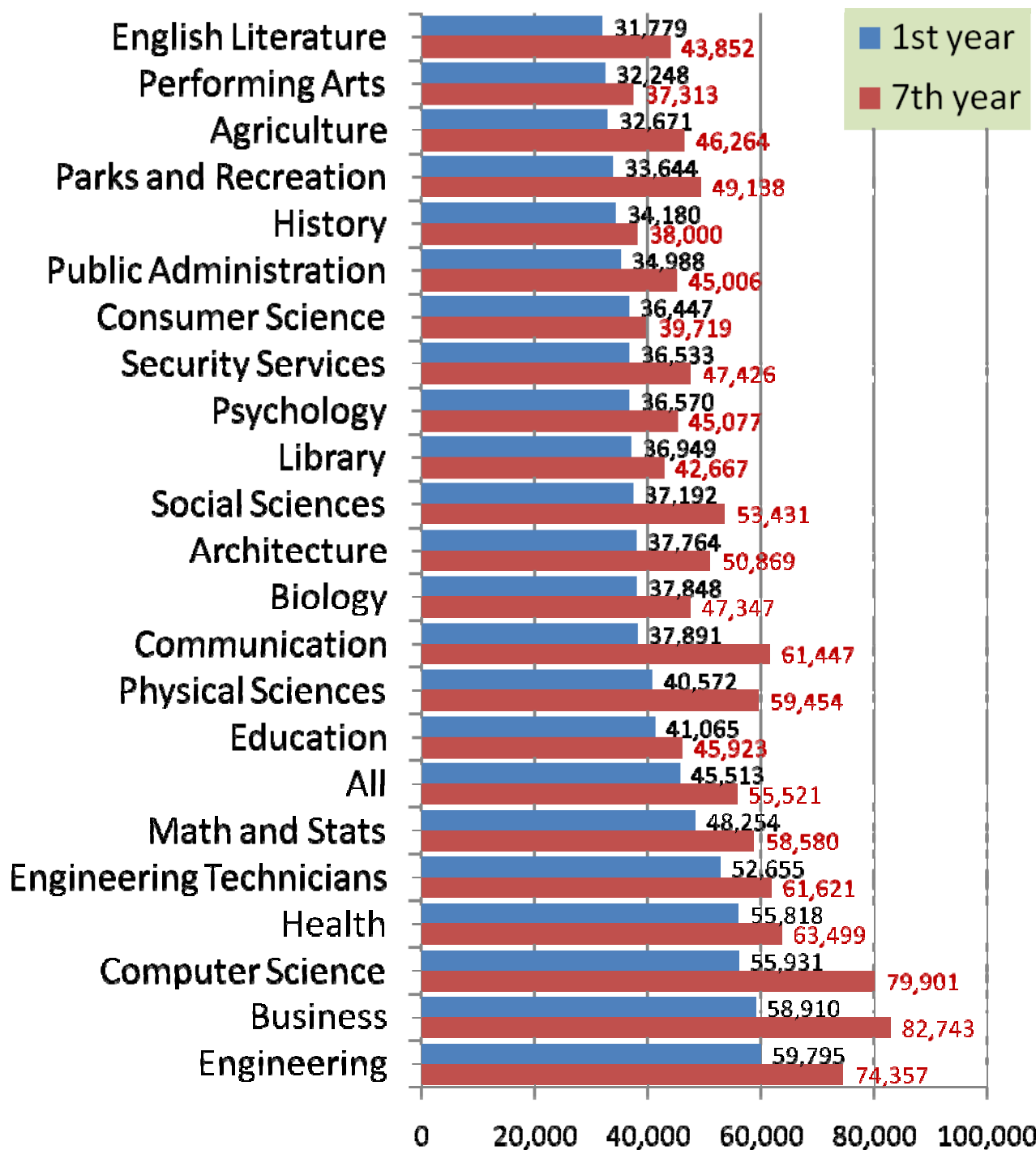
Notes: 1. 1st year= 3rd Quarter after graduation; 7th year = 25th quarter after graduation; 2. Public institutions only

Source: UT Center for Business & Economic Research

Private Benefits

Figure 3:

Wages of Tennessee Public Higher Education Graduates, **Master's Degrees**, 1997-2004, by Major Field

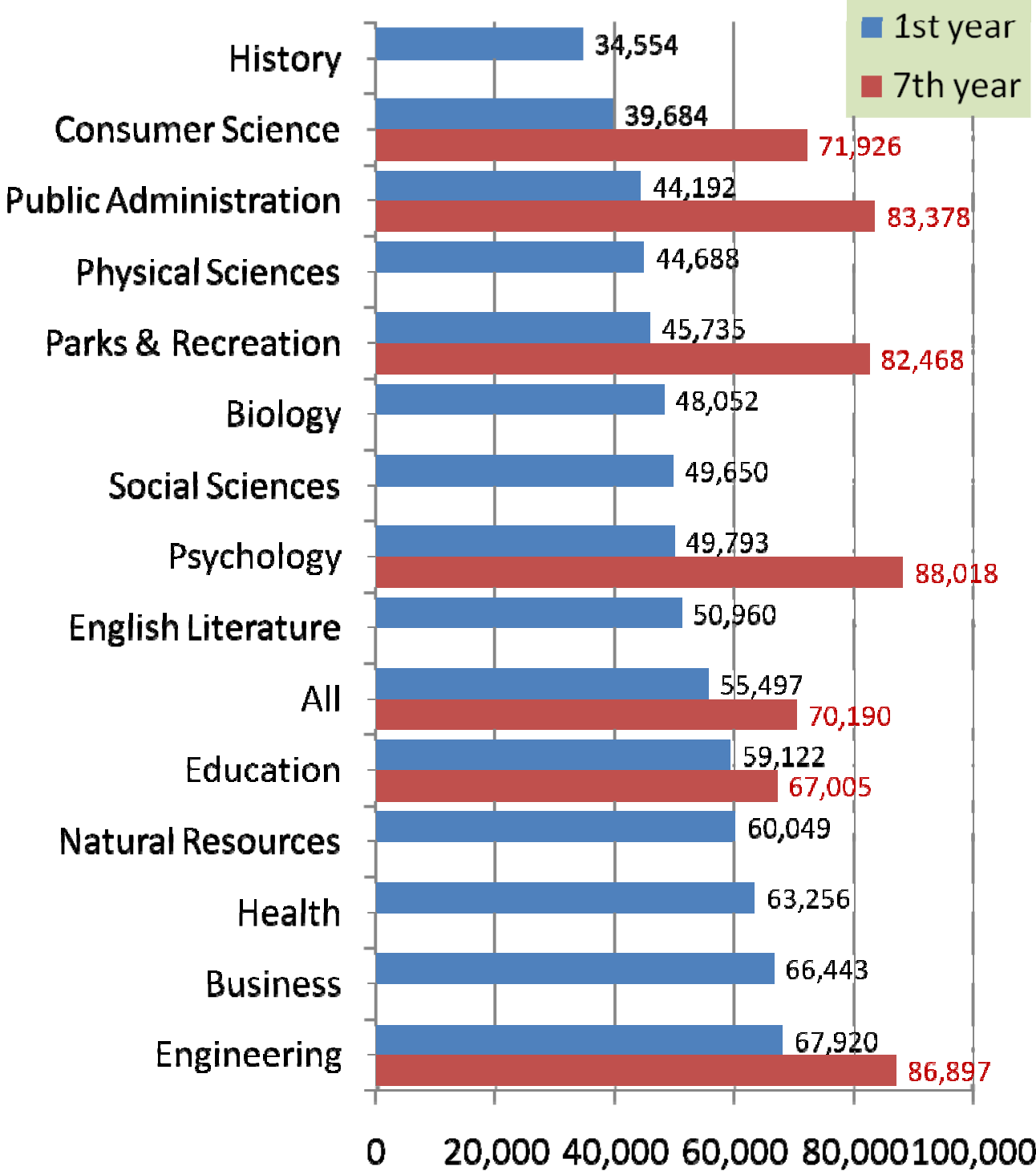


Notes: 1. 1st year= 3rd Quarter after graduation; 7th year = 25th quarter after graduation; 2. Public institutions only

Private Benefits

Figure 4:

Wages of Tennessee Public Higher Education Graduates, **Doctoral Degrees**, 1997-2004, by Major Field

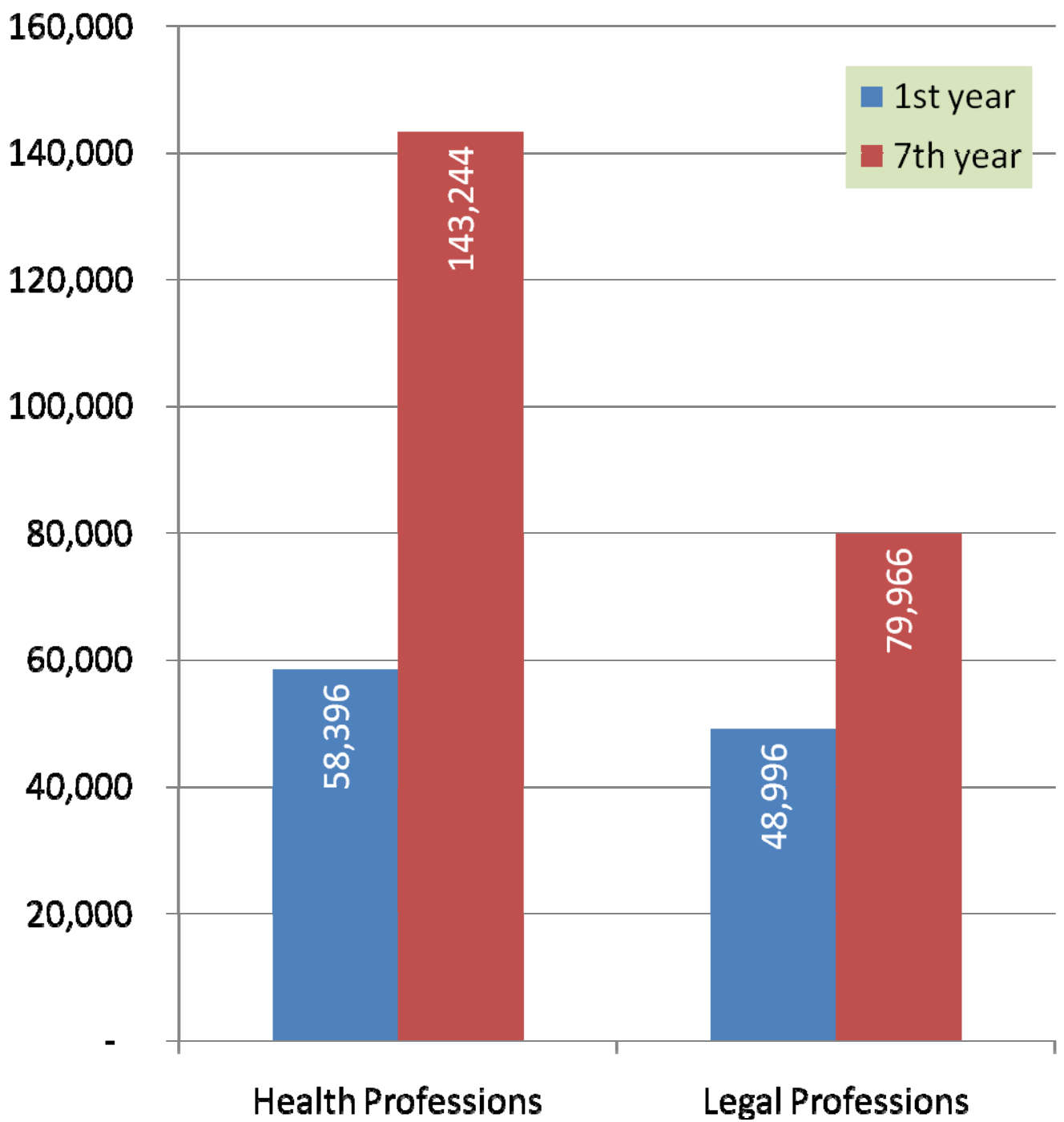


*1st year= 3rd Quarter after graduation, 7th year= 25 quarter after graduation

Private Benefits

Figure 5:

Wages of Tennessee Public Higher Education Graduates, **Professional Degrees**, 1997-2004, by Major Field



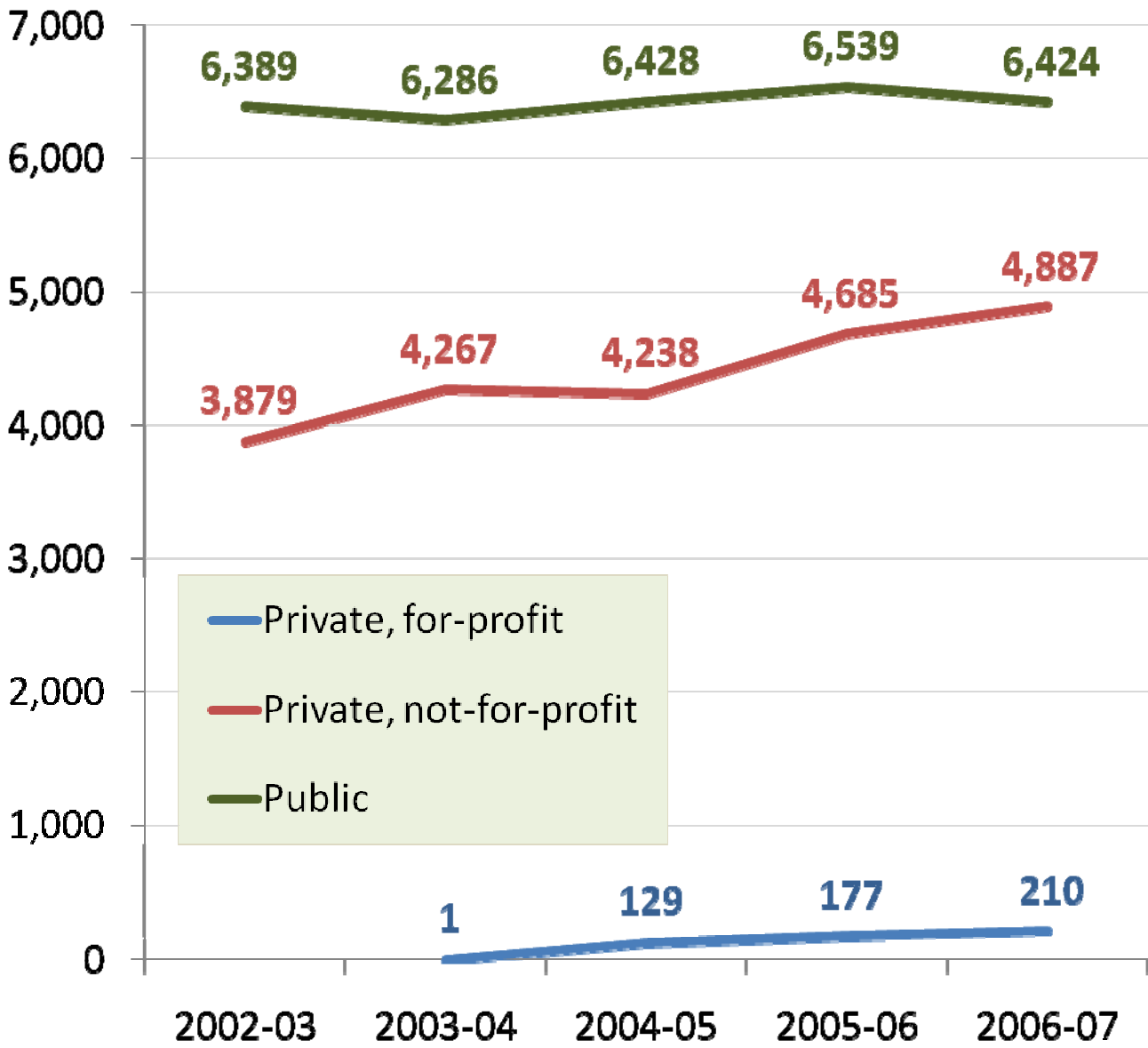
*1st year= 3rd Quarter after graduation, 7th year= 25th quarter after graduation

3. Recent Trends in Graduate Degree Production

Graduate Degree Production

Figure 6:

Graduate Degree Production in Tennessee
by Sector, 2002-03 to 2006-07
(All Graduate Levels)

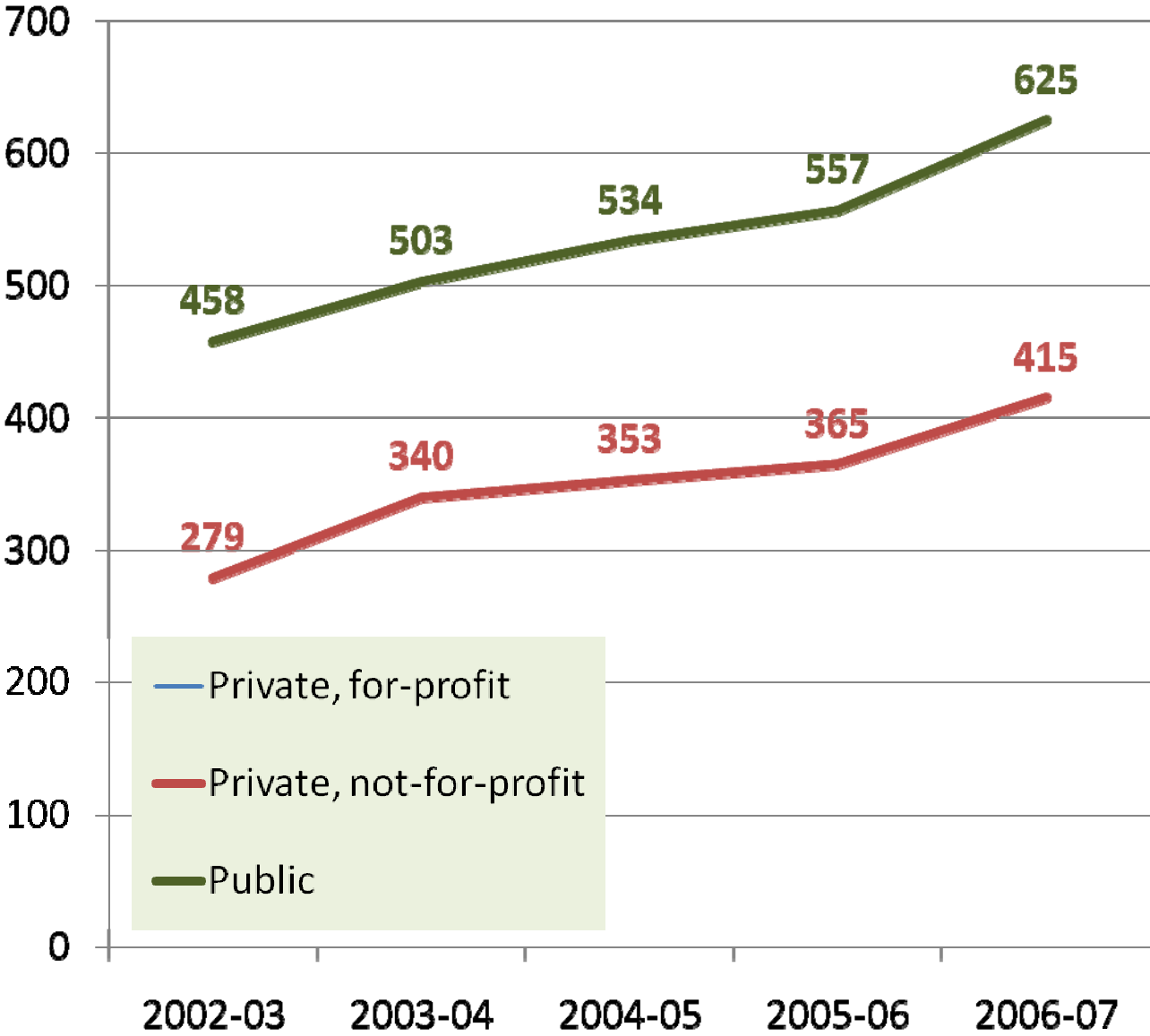


Source: IPEDS

Graduate Degree Production

Figure 7:

Graduate Degree Production in Tennessee by Sector, 2002-03 to 2006-07
(Doctor's Degree)

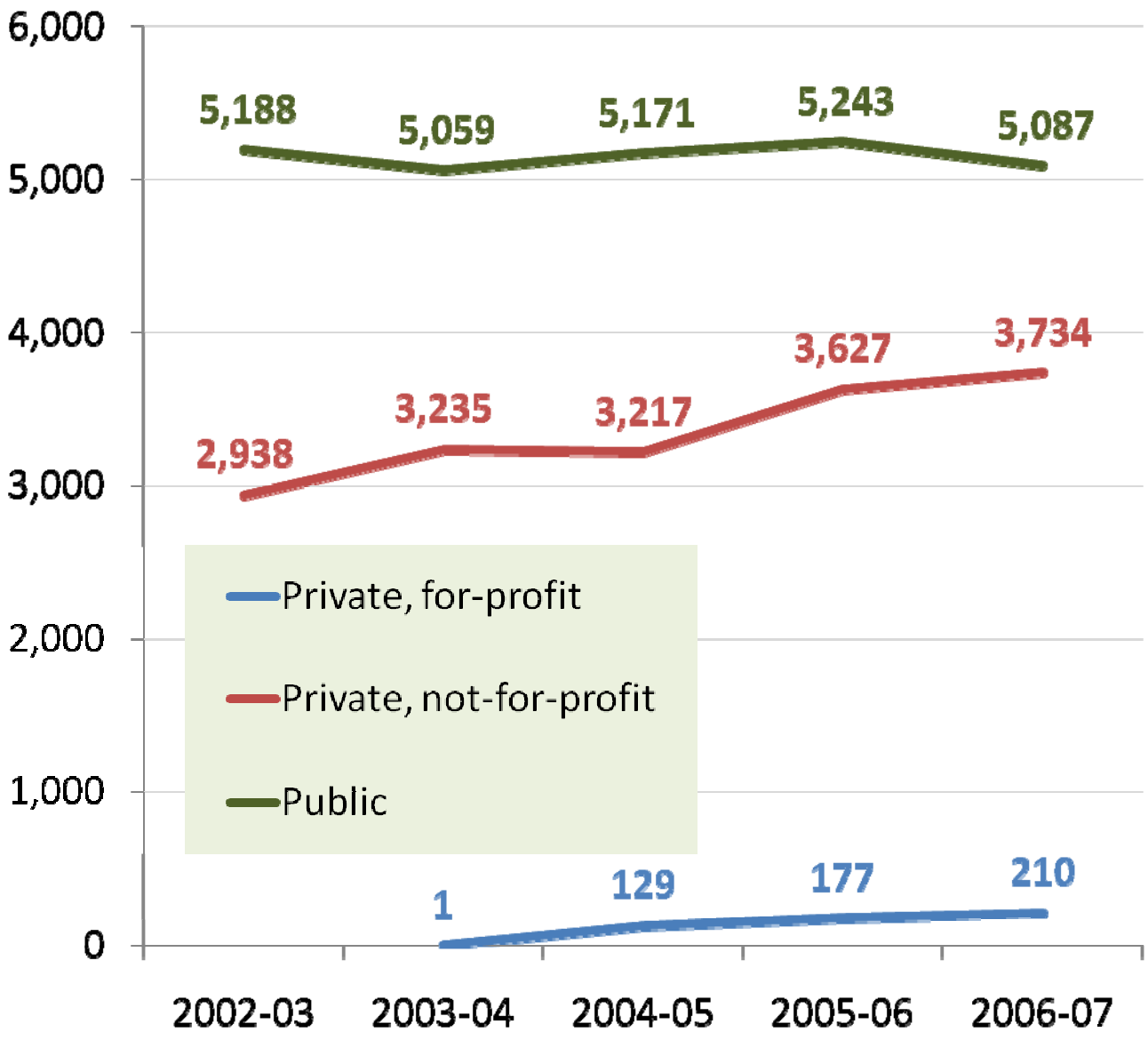


Source: IPEDS

Graduate Degree Production

Figure 8:

Graduate Degree Production in Tennessee by Sector, 2002-03 to 2006-07
(Master's Degree)



Source: IPEDS

Graduate Degree Production

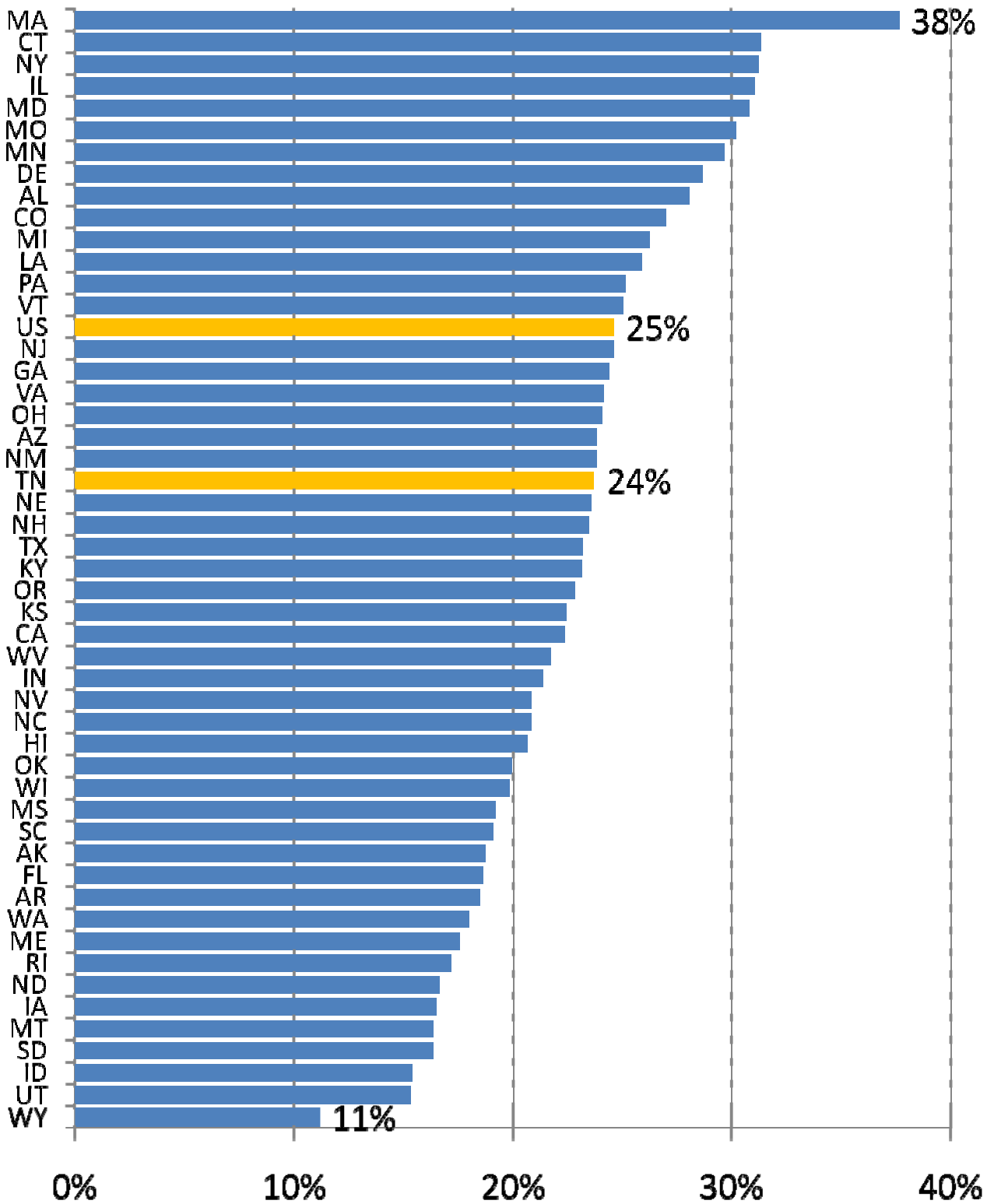
Figure 9:

Graduate Degree Production in Tennessee by Sector, 2002-03 to 2006-07
(1st Professional Degree)



Figure 10:

Graduate Degrees Awarded as a % of Total Postsecondary Degrees Produced, 2005-06



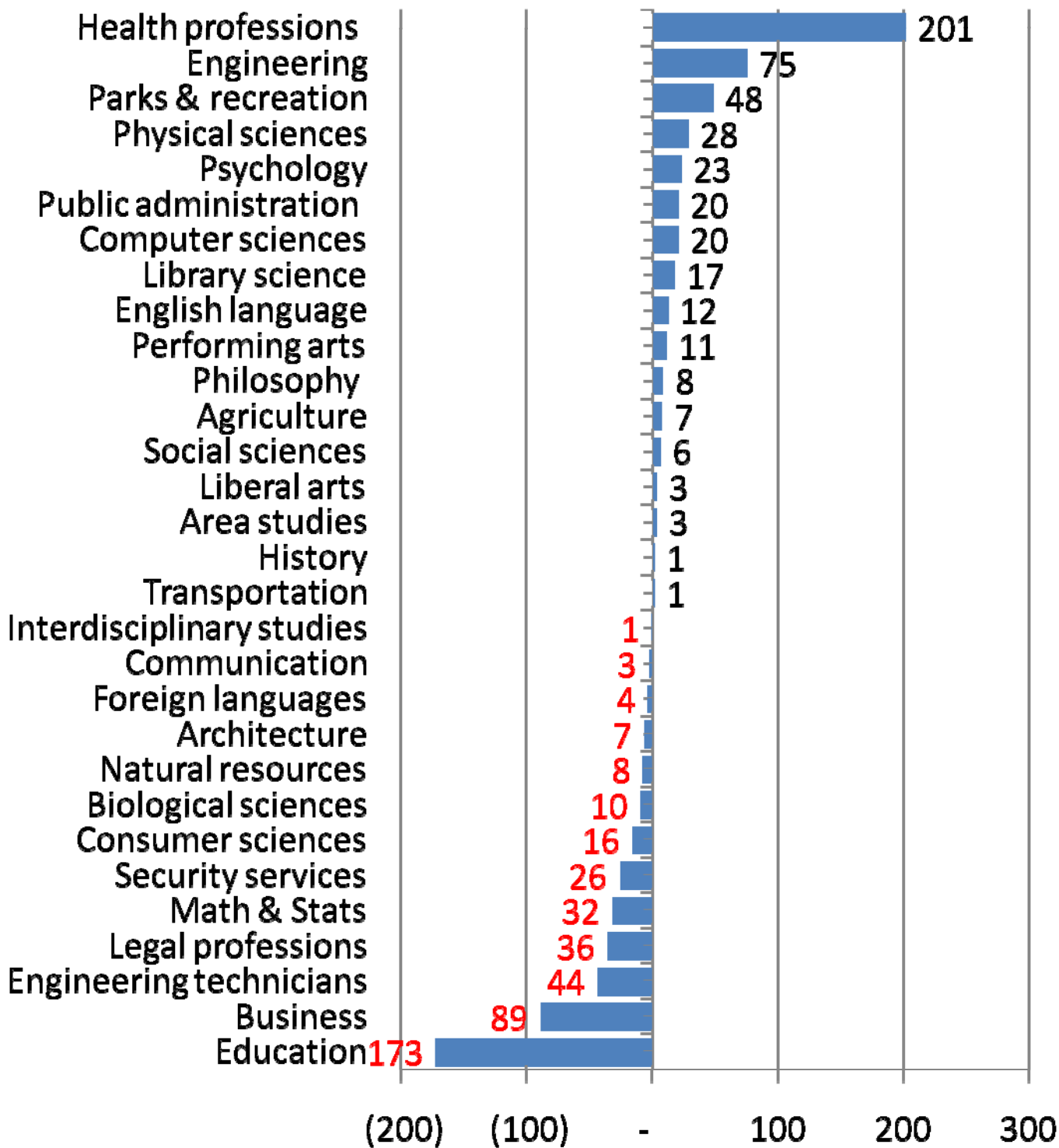
4. Market Supply

“Popular” and “Not-so-popular”
Fields

Tennessee's Market Supply

Figure 11:

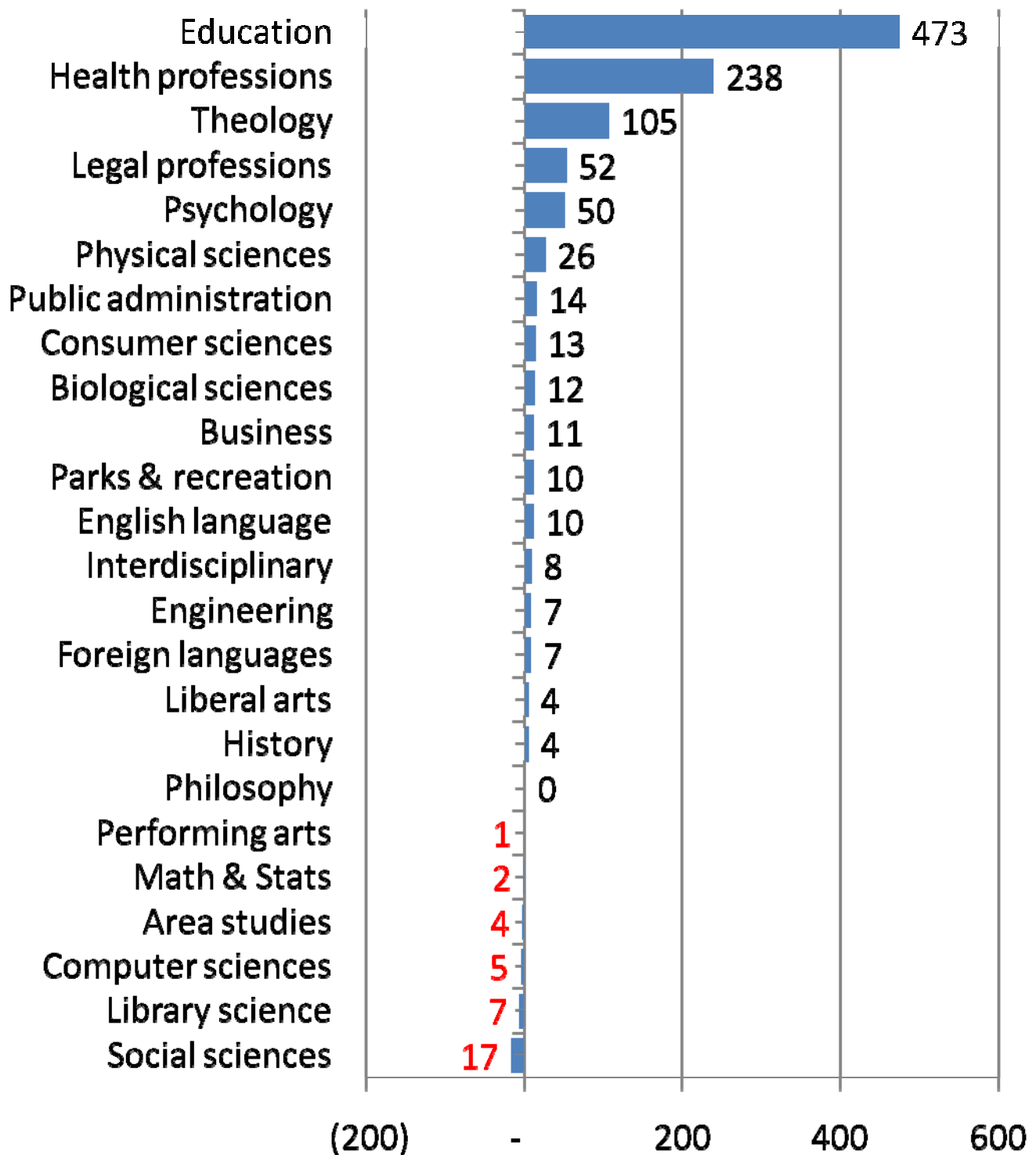
Change in Graduate Degree Production by Subject, 2002-03 to 2006-07, **Public Institutions**



Tennessee's Market Supply

Figure 12:

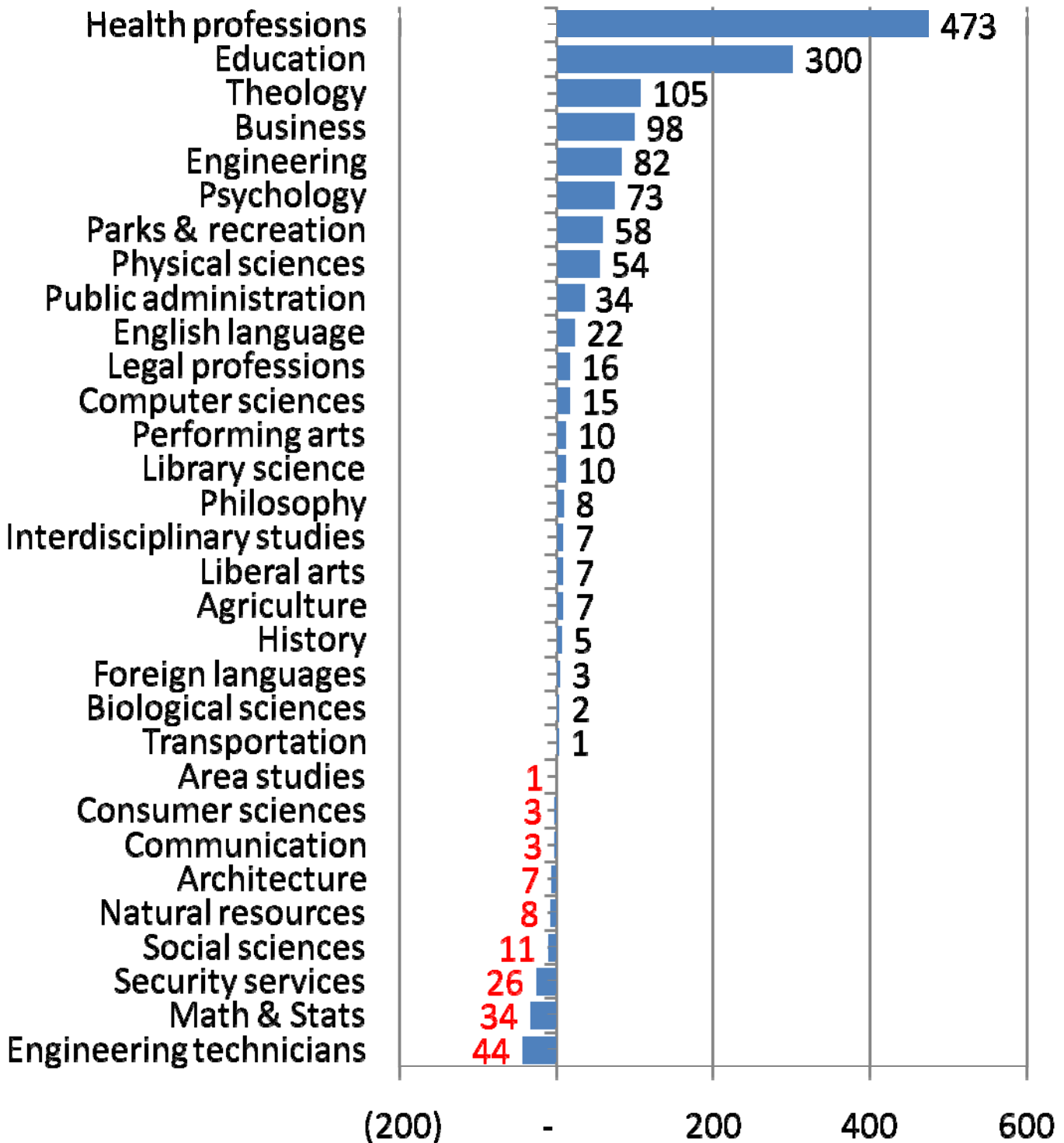
Change in Graduate Degree Production by Subject, 2002-03 to 2006-07, **Private Institutions**



Tennessee's Market Supply

Figure 13:

Change in Graduate Degree Production by Subject, 2002-03 to 2006-07, **State Total***



*Private, for-profit institutions are also included

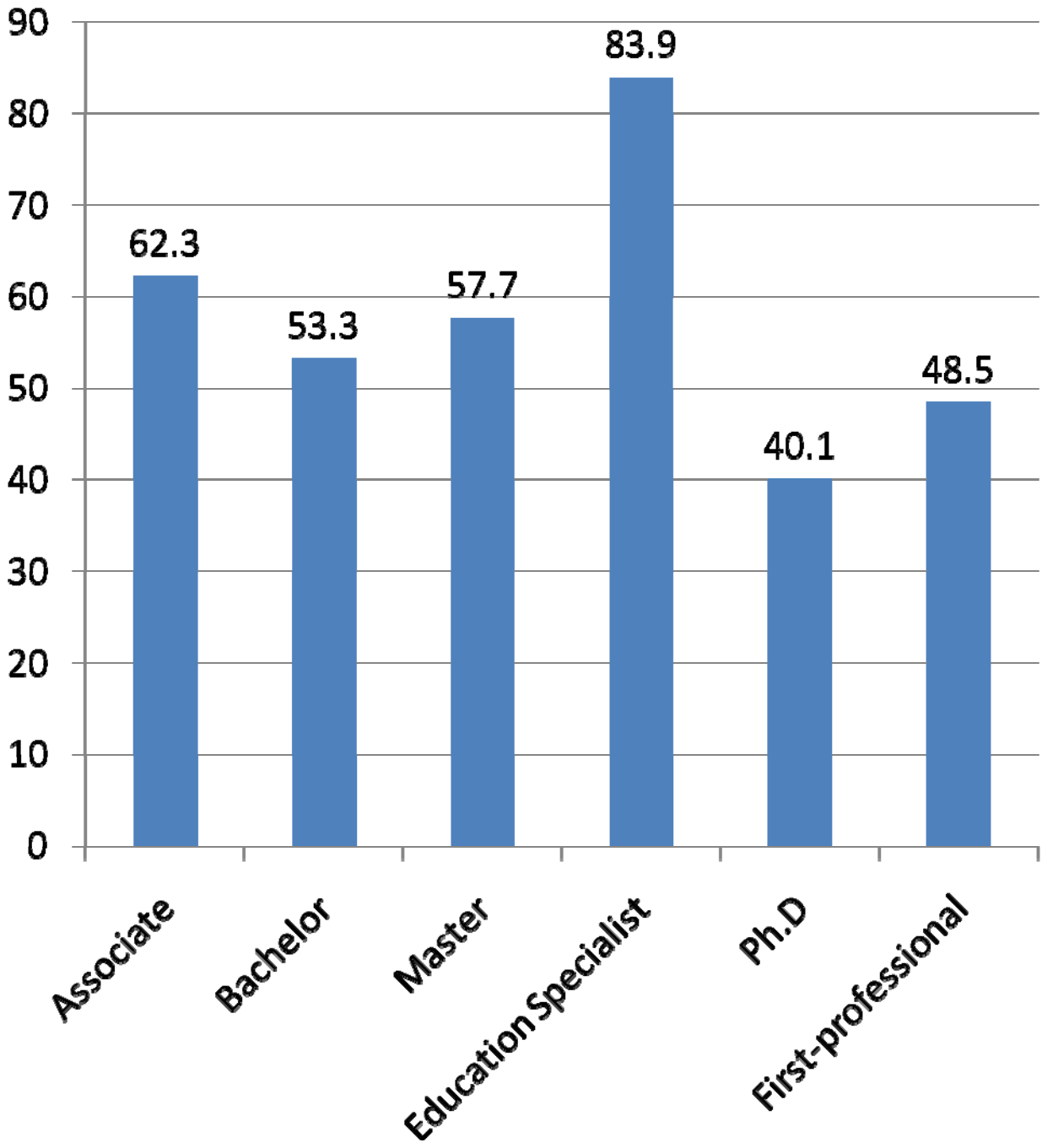
5. Market Demand

Labor Market Participation of Graduates

Labor Market Participation

Figure 14:

Percent of Tennessee **Public** Graduates Working in Tennessee by Degree Level, 1997-2004

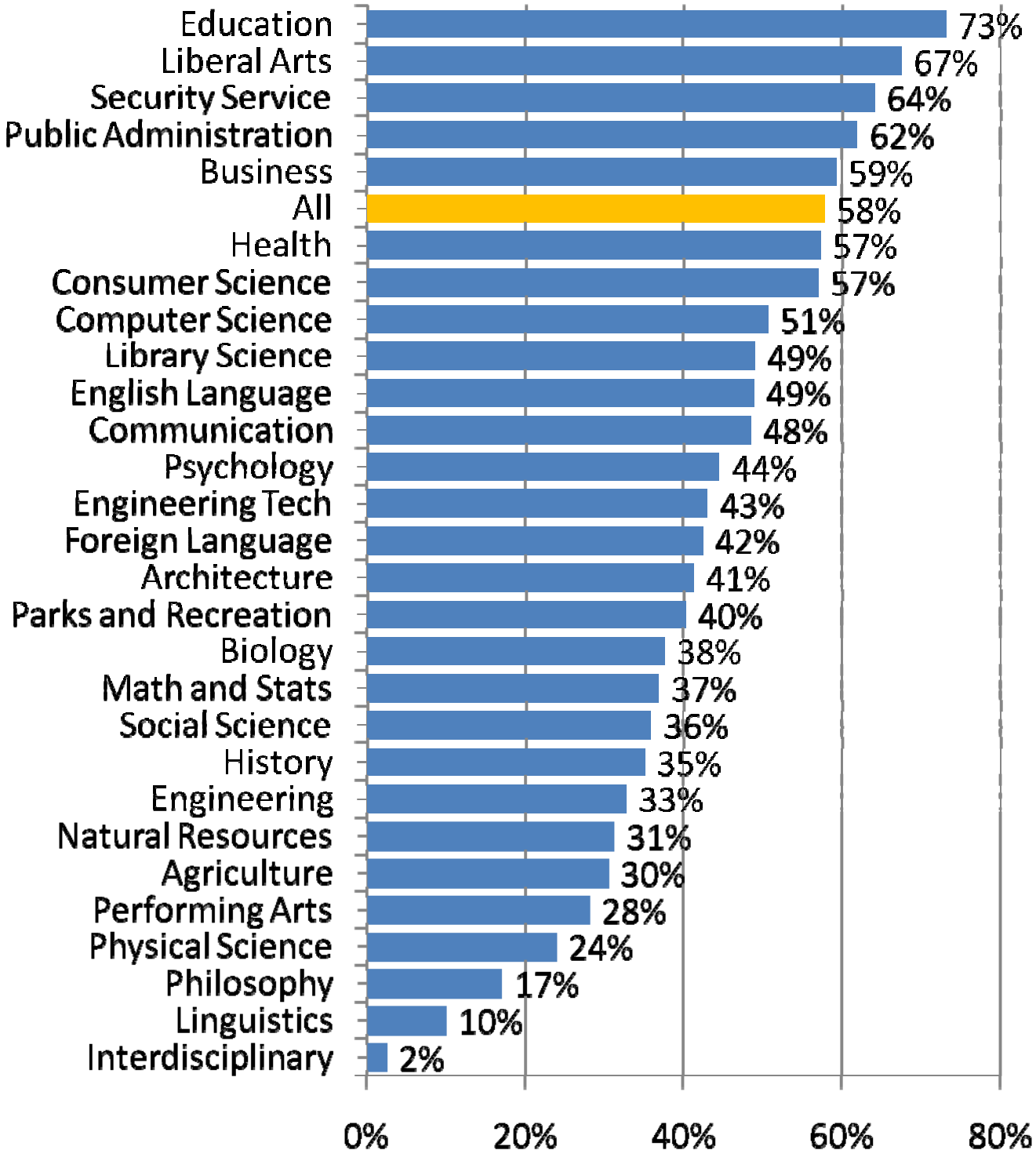


Note: Labor market participation as of 3rd Quarter after graduation

Labor Market Participation

Figure 15:

% of **Public** Graduates in Tennessee after Graduation, **Master's Degrees**, 1997-2004, by Subject



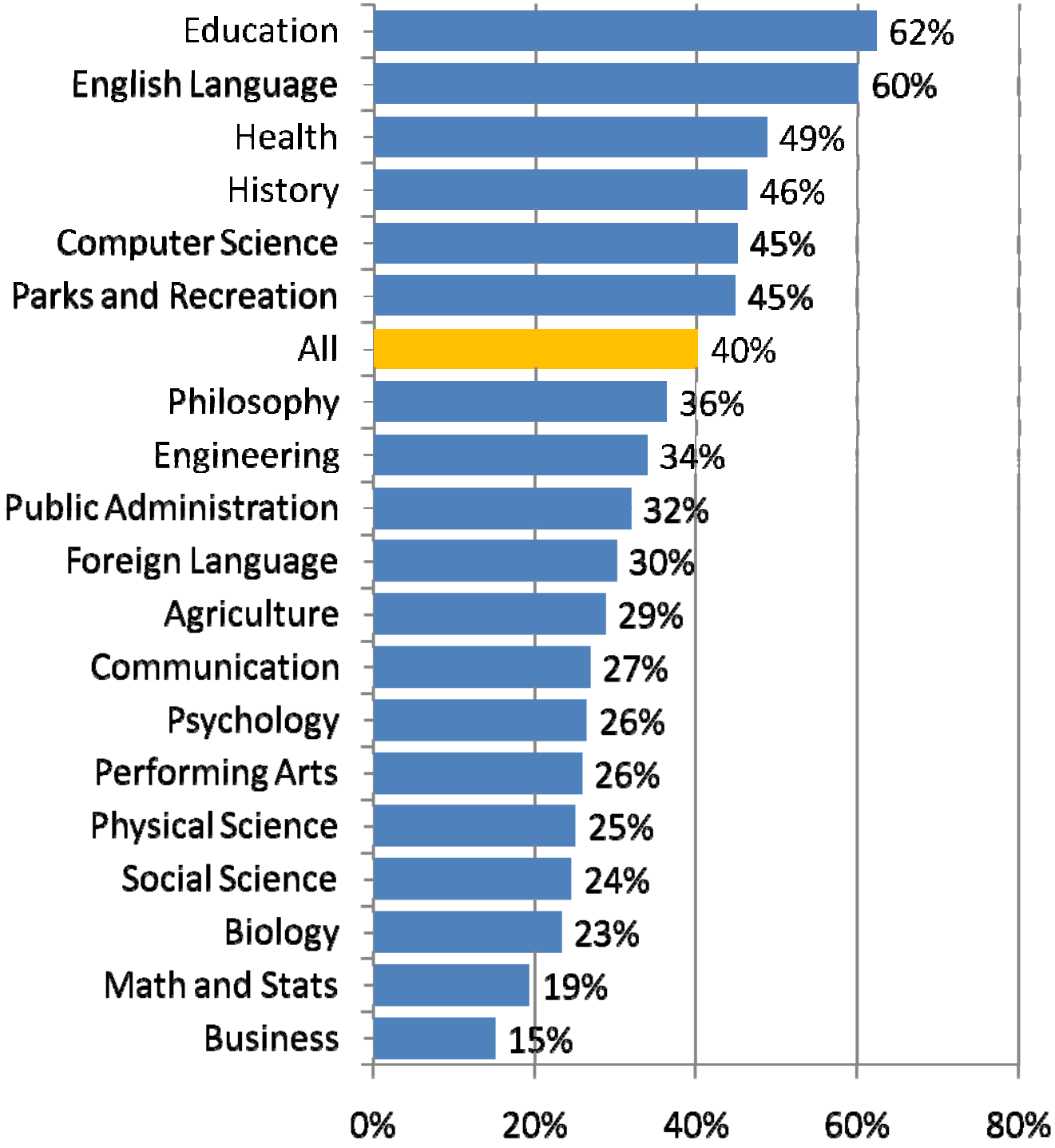
Note: Labor market participation as of 3rd Quarter after graduation

Source: UT Center for Business & Economic Research

Labor Market Participation

Figure 16:

% of **Public** Graduates in Tennessee after Graduation, **Doctoral Degrees**, 1997-2004, by Subject



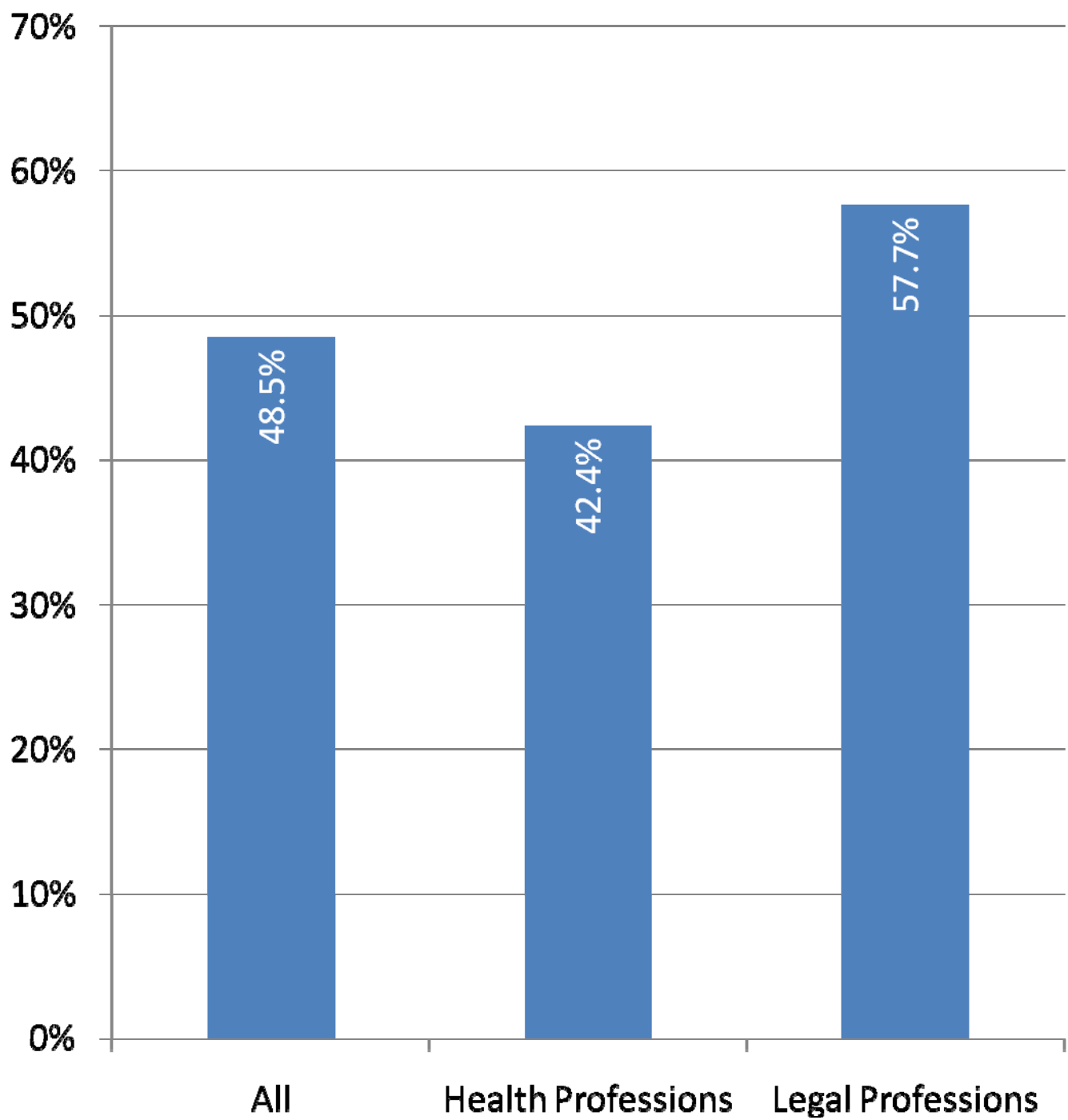
Note: Labor market participation as of 3rd Quarter after graduation

Source: UT Center for Business & Economic Research

Labor Market Participation

Figure 17:

% of **Public** Graduates in Tennessee after Graduation, **Professional Degrees**, 1997-2004, by Subject



Note: Labor market participation as of 3rd Quarter after graduation

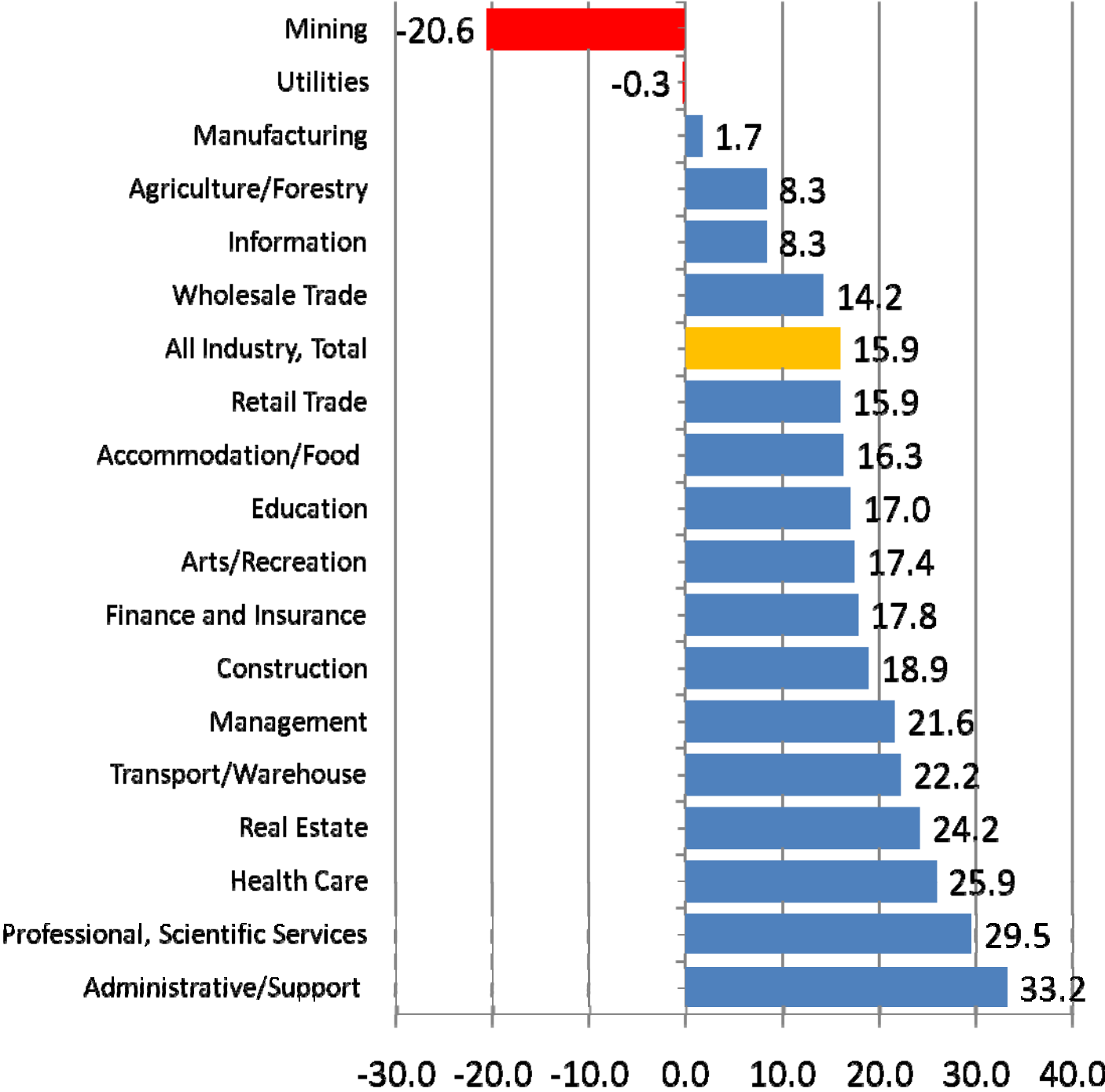
6. Market Demand 2

Employment Projections

Market Demand

Figure 18:

Employment Projection in Tennessee by Industry (%)
2004-2014

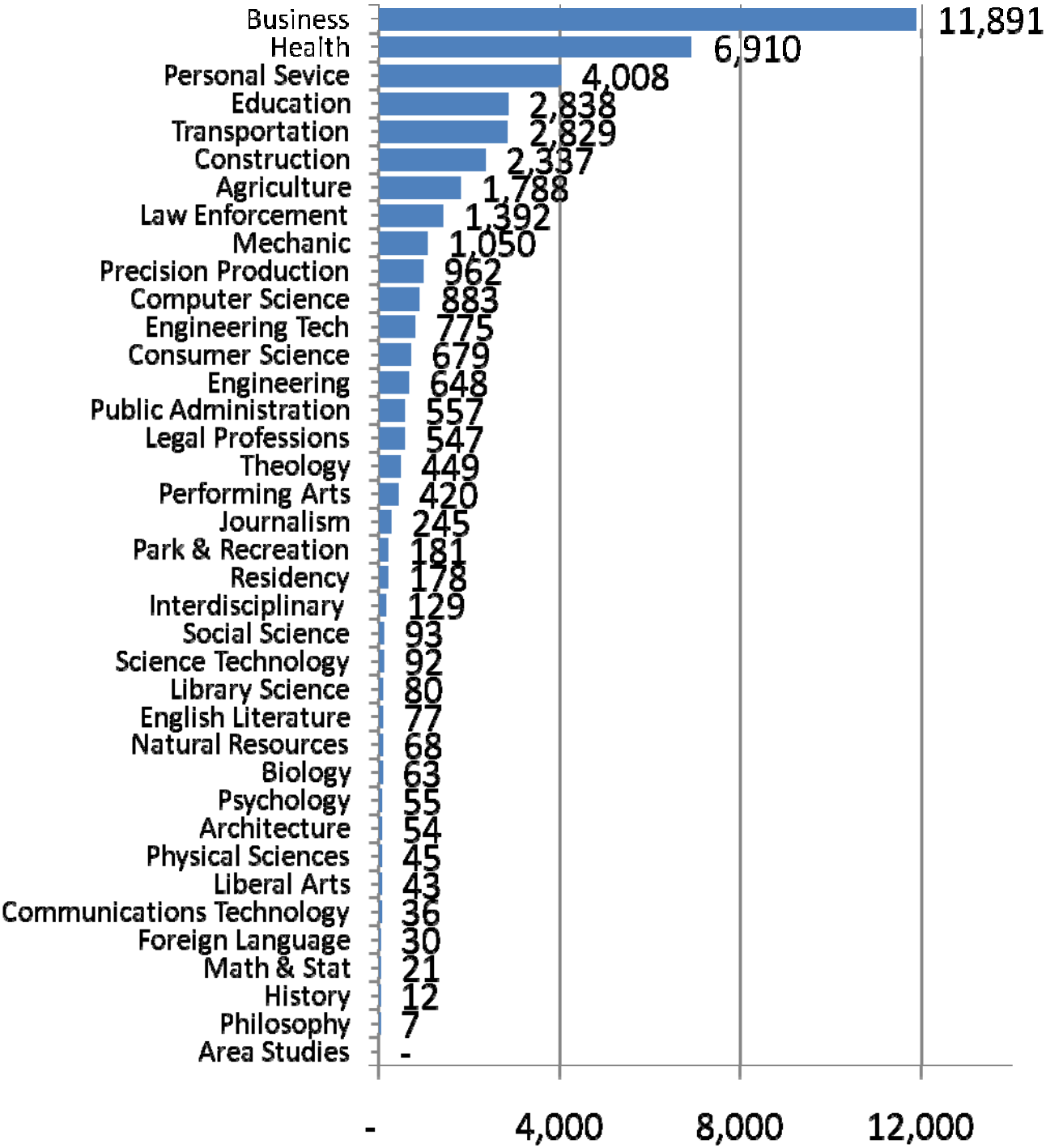


Source: TN Dept. of Labor and Workforce Development

Market Demand

Figure 19:

Tennessee Employment Projection
Annual Job Openings by Subject
2004-2014 (All Degree Levels)

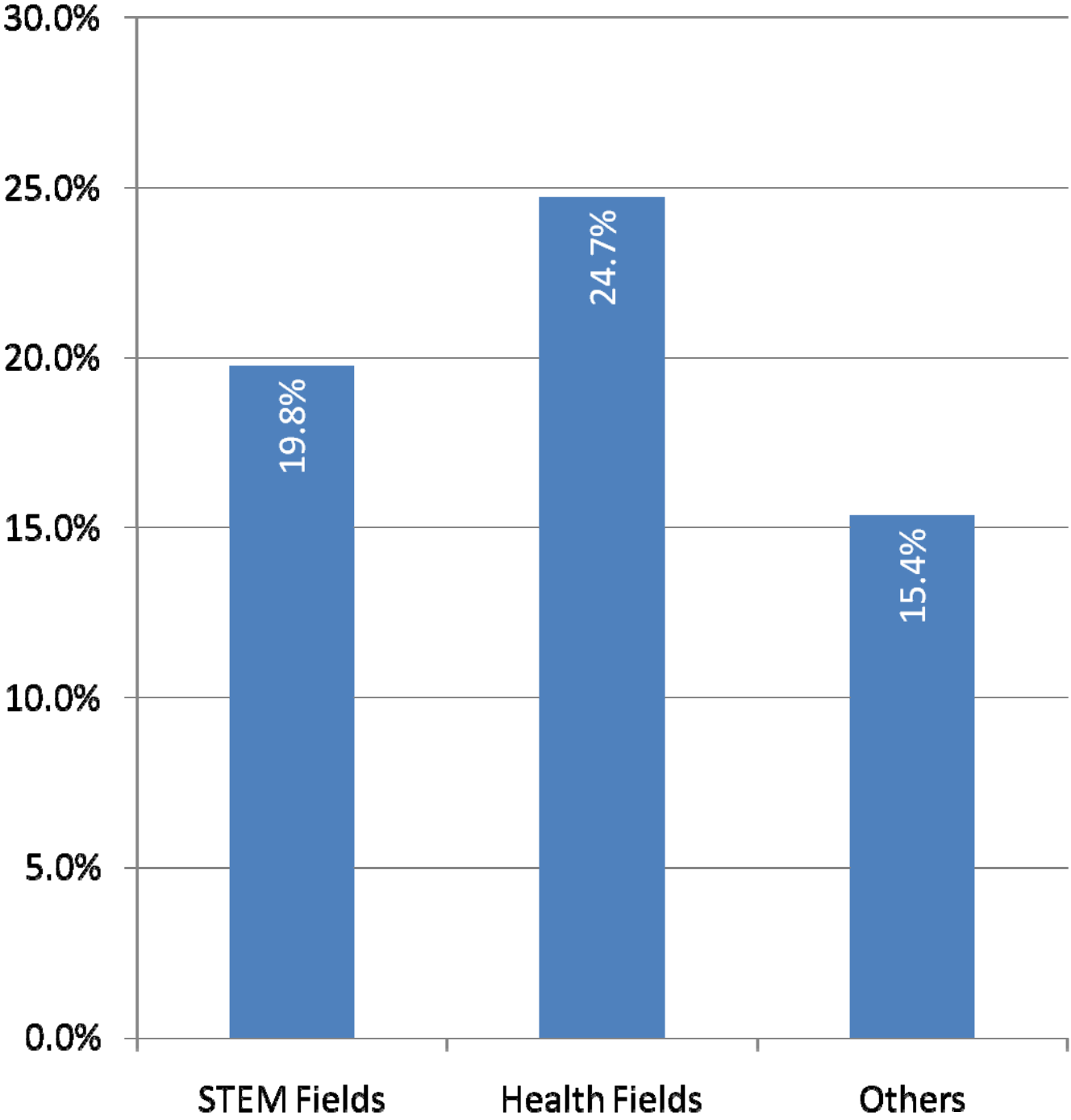


Source: THEC, O*NET; TN Dept. of Labor and Workforce Development

Market Demand

Figure 20:

Employment Projection in Tennessee by Subject (% Change)
2004-2014 (All Degree Levels)

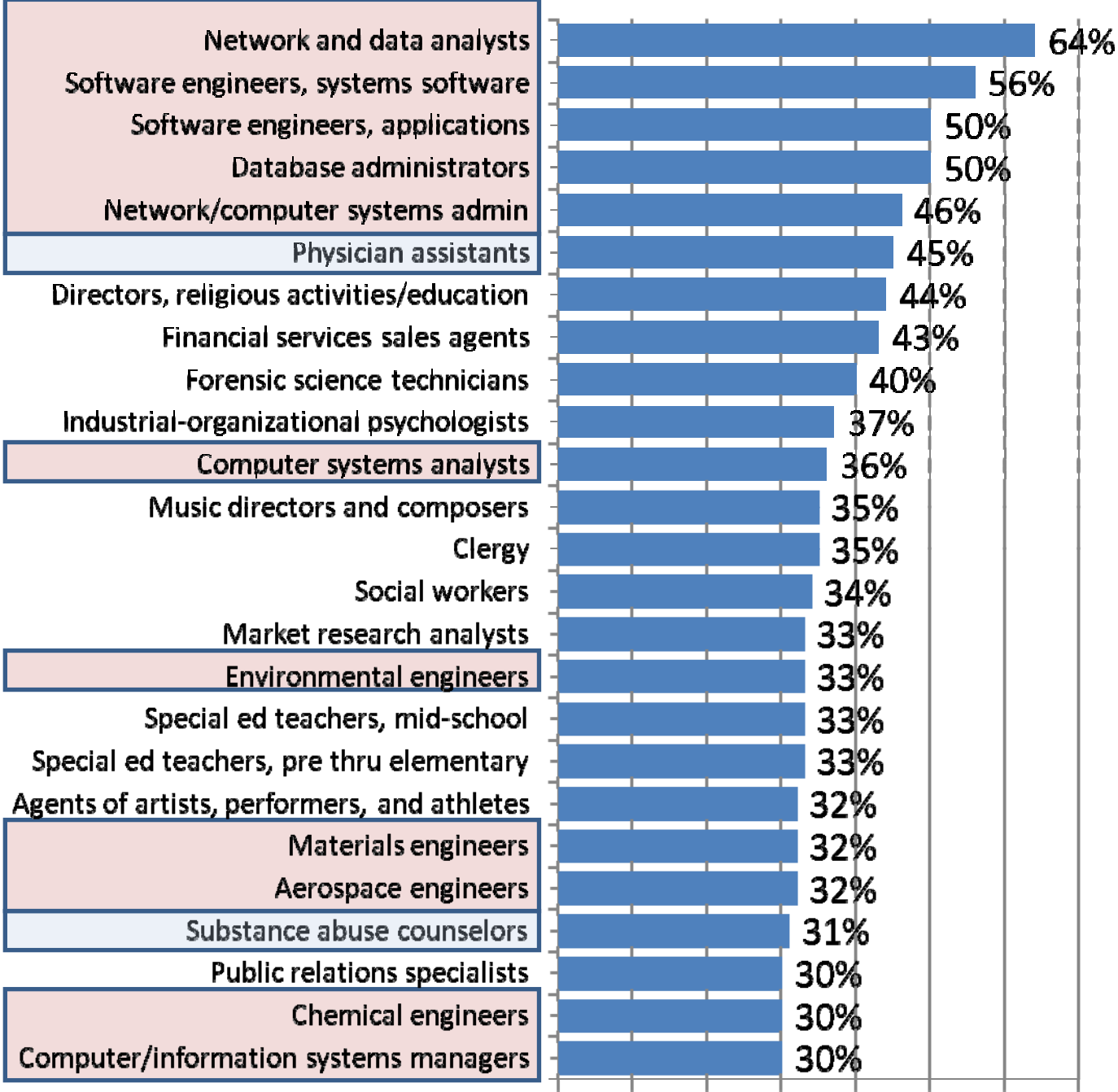


Source: THEC, O*NET; TN Dept. of Labor and Workforce Development

Market Demand

Figure 21:

Top 25 Fastest Growing Occupations (at least bachelor's degree required) in Tennessee
2004-2014



0% 10% 20% 30% 40% 50% 60% 70%

Source: America's Career InfoNet; TN Dept. of Labor and Workforce Development, O*NET

Conclusions

- The role of graduate education in Tennessee is more important than ever in today's knowledge-based economy
- Tennessee private institutions (both non-profit and for-profit) have become more involved with graduate education
- Each institution needs to constantly monitor market demands; labor market will not remain static