

**OVERVIEW:** Research and development is a critical contributor to innovation and long-term economic growth, and the United States has a long history of being a global leader. According to a new collaborative report from The Council of State Governments and Elsevier—"America's Knowledge Economy: A State-by-State Review"—the United States published more than 536,000 publications in 2013. Predictably, states with larger populations also tended to publish more. For example, California and New York were the top two producers from 2004 to 2013. From 2004 to 2013, a big chunk of United States publications—more than one-quarter—focused on the field of medicine. Over the same period, Massachusetts and California produced the most impactful research—also called field-weighted citation impact—among all states. This brief offers a state-specific snapshot of data pulled from the report. To read the full report, visit [www.csg.org/knowledgeeconomy](http://www.csg.org/knowledgeeconomy).

**2.75 PUBLICATIONS**

**PER 1,000 RESIDENTS, 2013**

U.S. Average: 1.70 publications per 1,000 residents

**FIELD-WEIGHTED CITATION  
IMPACT, 2004–13**

**1.86** Cited 86% more than  
global average

**MOST IMPACTFUL RESEARCH FIELD**

**MEDICINE**

Ranked 10<sup>th</sup> among all states in terms of research  
impact and cited **32% more** than the U.S. average.



**CALIFORNIA**

**TOP COLLABORATING  
STATE, 2004–13**

13,334 collaborations (10.4% of all of Minnesota's publications)

**PUBLICATIONS PER CAPITA, 2013**

**1<sup>st</sup> among all states in Midwest Region**

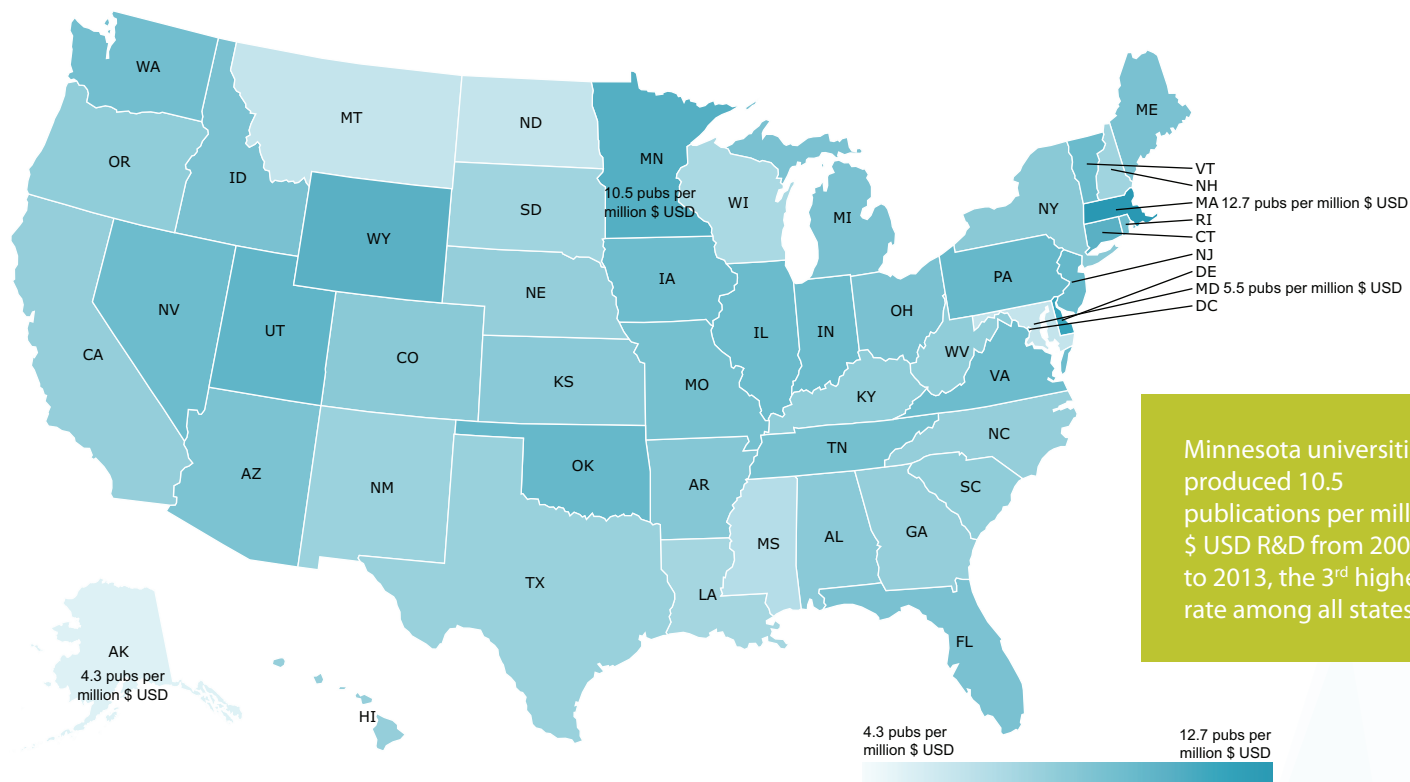
at 2.8 publications per 1,000 residents.

**RESEARCH FROM MEDICAL SECTOR, 2004–13**

**26.7%** of Minnesota's total research output is from its medical sector,  
the highest rate among all states.

# America's Knowledge Economy: A State-by-State Review | MINNESOTA

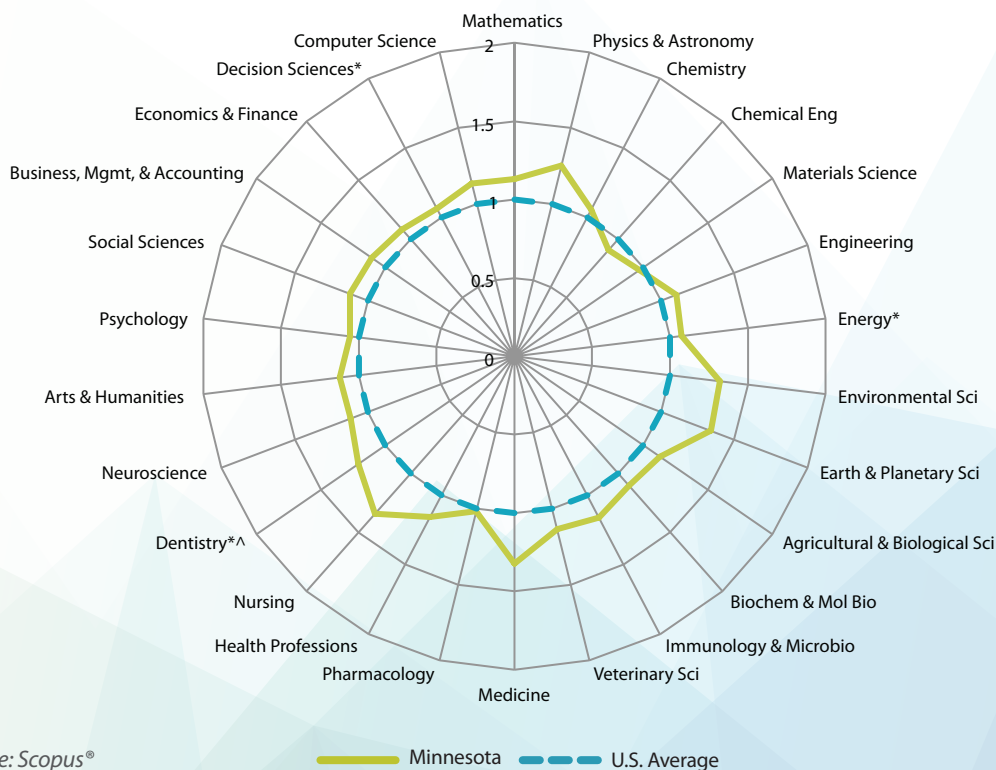
Number of academic publications per million \$ USD in higher education R&D expenditures for U.S. states, 2004–13 (in 2013 \$)



Minnesota universities produced 10.5 publications per million \$ USD R&D from 2004 to 2013, the 3<sup>rd</sup> highest rate among all states.

Source: Scopus® and NSF Higher Education Research and Development Survey

## Impact Across Research Fields, 2004–13



Minnesota's research in medicine is cited 32% more than the U.S. average.

Source: Scopus®