

October 16, 2014

Data Sharing Education and the Workforce



MASSACHUSETTS
Department of
Higher Education

College Readiness Overview

- In 2007/2008, the DHE and ESE collaborated to produce the School-to-College Reports/Cube which provided a look at one year of public postsecondary enrollment and success for the 2005 HS Graduating Class. (Both K-12 and Higher Ed focused Reports)
- In 2012/2013, DHE and ESE collaborated to produce the College Readiness Reports/Cube. These reports are part of the larger state longitudinal education database initiative.
- College Readiness Reports available for 2003 to 2013 graduating classes, so high schools can analyze 10 years of trend in enrollment and success.

College Readiness Overview

- College Readiness Reports include:

- Demographics

- Special Populations (special ed/ell)

- Career and technical ed.

- Income proxies

- MassCore

- AP course completion

- 10th grade MCAS

- SAT

- postsecondary enrollment,

- The public and private postsecondary institution information (NSC)

- 1st term developmental coursework enrollment

- 1st term ESL coursework enrollment

- 1st year credit obtainment

- 2nd year persistence

- 1st degree obtainment

- School, District, State-level reports and ABE Agency

College Readiness Overview

Limitations:

- Expensive/substantial grant support required. New report/cube development would be costly. Concerns regarding sustainability.
- Has not had much impact in higher education (yet). Working on Higher Ed focused reports and cube enhancements
- We do not currently have a mechanism to integrate workforce outcomes.

Higher Education Focused Report

Purpose: Develop a report which provides information from the perspective of higher education institutions. *Provides insight into which students the institution receives (including top feeder high schools), as opposed to which students a high school is sending.*

Possible new areas of data integration/analysis:

- Student Financial Aid
- Completion of college-level, credit course in Math or English
- Transfer (NSC)
- Major (focus on high-priority fields)
- Degree field (focus on high-priority fields)
- Continued education after 1st degree completion (NSC)
- Employment in Commonwealth after graduation. (merge with DCS)

Employment Outcomes Overview

Many constituents calling for employment outcomes analyses:

- Trustees
- Administrators
- Advisors
- Faculty
- Legislators
- Agencies providing grant funds.

One main challenge/obstacle

- Ensuring Student/Worker Privacy
 - Documentation/MOUs
 - De-Identification
 - Aggregate Analyses

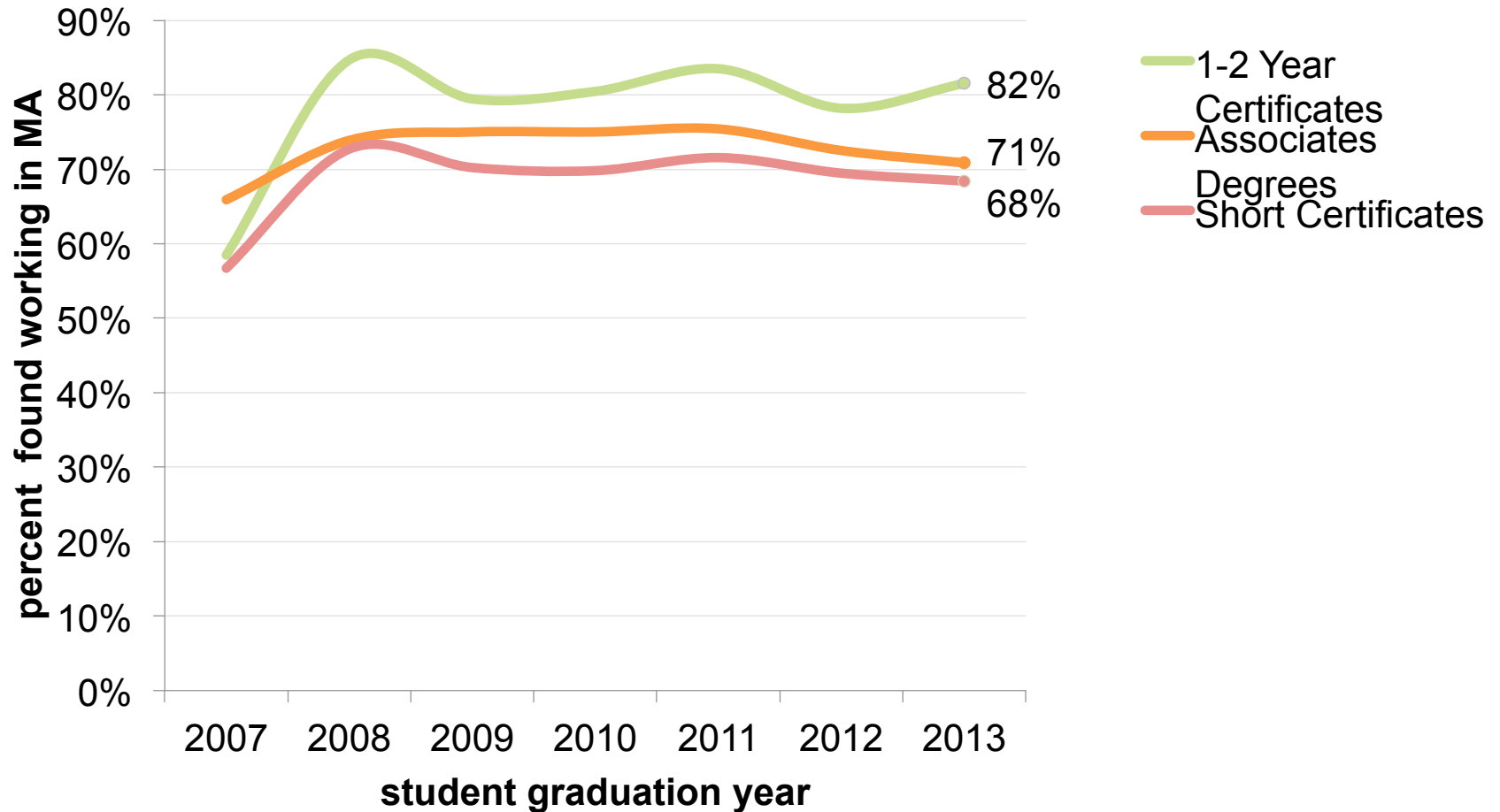
Employment Outcomes Overview

- Most comprehensive and accurate assessments of the post-graduation employment for MA public higher ed.
 - No small response rate
 - No sample bias
 - No self-report error
- Data can be analyzed based on a variety of factors (Degree Levels, Degree Fields, Student Demographics, Geographic Region, Industry of Employment, Earnings Levels...)
- Pre and Post Education Employment Matches.
- Various Cohorts...e.g. employment outcomes for individuals who are no longer students. but did not

Employment Outcomes Overview

- “Found employed in Massachusetts” not complete “employment rate” because we use MA UI records.
- Does not currently include:
 - Out-of-State
 - Self-employed
 - Military
 - Anyone employed in a job that is not covered by UI.
- Does not include “Job Code”, only “Industry Code”
- Earnings are not always uniformly reported.

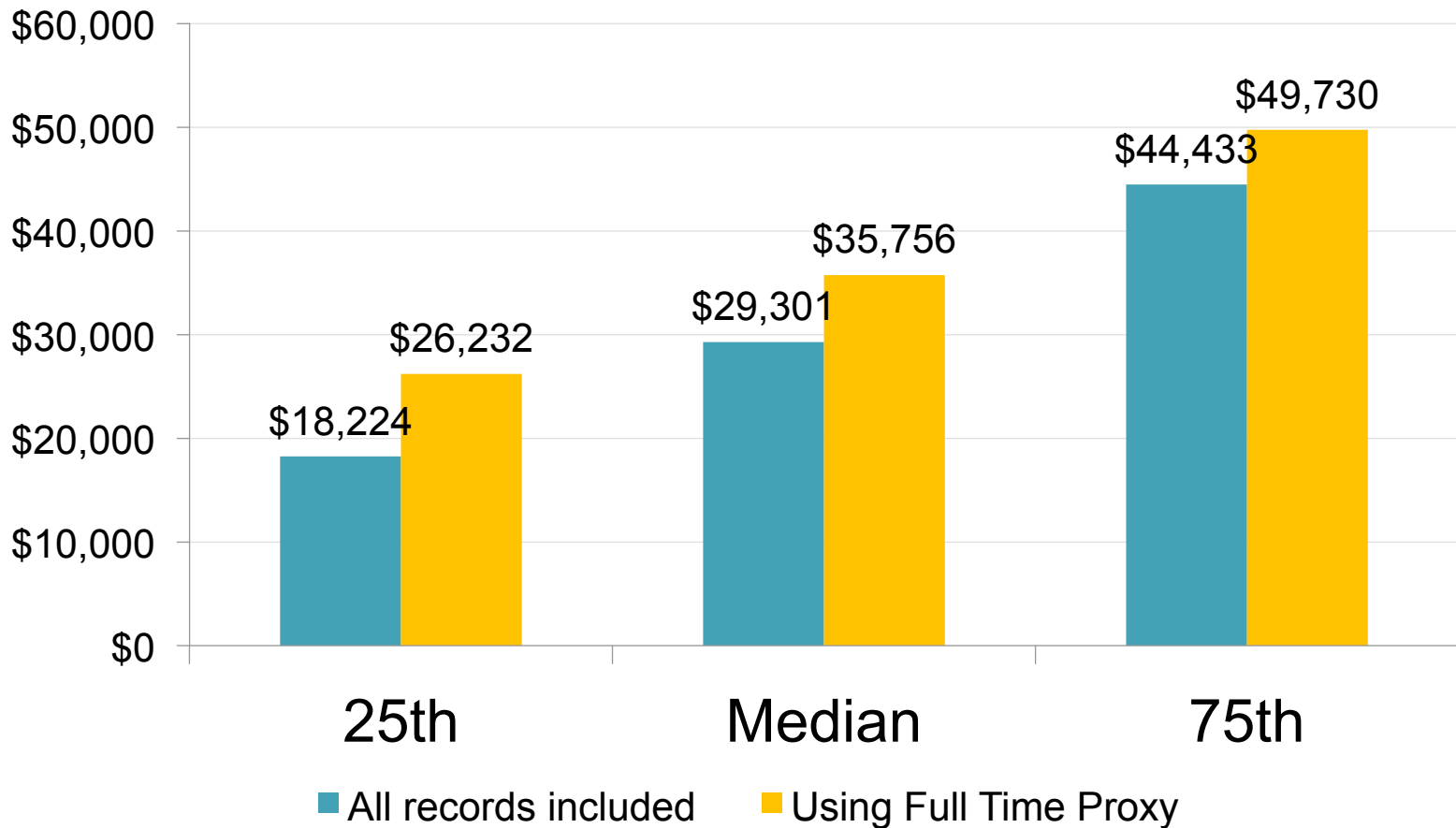
Found Working in Massachusetts



Full-Time Earnings

Calculated using a threshold (proxy for FT earnings)

1 Year after Earning an Associate's Degree from a MA Community College



Industry of Employment

410101

Biology Technician/Biotechnology Laboratory Technician

Certificate (0-1 Year)

Middlesex Community College

Where Graduates are Employed One Year After Graduation

Major Industry Sector

| | |
|--|-----|
| Professional, Scientific, and Technical Services | 38% |
| Manufacturing | 23% |
| Retail Trade | 15% |
| Finance and Insurance | 8% |
| Wholesale Trade | 8% |

