

## STEM Teacher Preparation

Query – 10.26.2009

### Query:

In Massachusetts, we have been asked to start reporting some public higher education trend data on enrollment, persistence, and graduation rates in **baccalaureate STEM teacher preparation programs**. Furthermore, we have been asked to compare our outcomes with those in other states.

Before we get started defining the indicators and harnessing data that is already being collected here (from our K-12 teacher licensing dept), we are curious if this sort of data is collected in other states, and if it is publicly available (so we can draw comparisons over time).

**Please let me know if your state collects data along these lines and, if so, please advise on what variables/indicators make the most sense from your experience.** At the moment, we are thinking about just reporting on:

- 1) the annual number of STEM-teacher baccalaureate degrees awarded, and/or
- 2) percent of all degrees awarded coming from the STEM-teacher field.

**From:** Massachusetts

### Responses:

West Virginia	West Virginia collects data on the number of degrees awarded in STEM fields. Institutional data on the number of degrees is reported in annual compact updates that the public four-year colleges and universities report to the Higher Education Policy Commission.
Kentucky	Kentucky collects quite a bit of STEM data and it is posted on our data portal: <a href="http://cpe.ky.gov/info/stem/">http://cpe.ky.gov/info/stem/</a> We use NSF Science and Engineering Indicators, also linked at the site above.
California	We collect and report the number of STEM degree recipients for all segments by academic year, institution, gender, ethnicity, degree level (or baccalaureate only if you wish), CIP 6-digit code. We can also report all of the above for enrollments at UC and CSU only. However, we do not have any data on STEM teacher prep programs.
North Carolina	North Carolina reports this data annually as a measure of institutional accountability for our fifteen institutions with a school of education. We hold chancellors, provosts, deans of education, and deans of arts and sciences accountable to meeting institutional productivity goals and well as overall system-wide goals.
Texas	Our agency is trying to collect additional data on STEM teacher prep also, and I have a meeting early next week with the senior director for educator quality at our agency to get some additional information to share with you. I'll forward it on next week.