Perspectives on Physics Teacher Education: Challenges, Opportunities, and Vision

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Need for High School Physics Teachers

Relative Demand by Field

Fields with Considerable Shortage (5.00 - 4.21)

Severe/Profound Disabilities (Spec. Ed.) 4.47
Mathematics Education 4.46
Physics 4.39
Multicategorical (Spec. Ed.) 4.39
Mild/Moderate Disabilities 4.37
Chemistry 4.35
Mental Retardation (Spec. Ed.) 4.34
Emotional/Behavioral Disorders (Spec. Ed.) 4.31
Bilingual Education 4.31
Learning Disability (Spec. Ed.) 4.28
Visually Impaired 4.24
Dual Certificate (Gen./Spec.) 4.23
Hearing Impaired 4.23
Speech Pathology 4.21

2008 AAEE (American Association of Employment in Education)
Educator Supply and Demand in the United States Report
For comparison, secondary teachers with a major in the field (2004):

- Science (all): 77%
- Math: 61%
- English: 76%
- Social Studies: 79%

Source: Schools and staffing survey, National Center for Education Statistics
Physics offered in NYC by Borough

% Racial/ethnic representation

% Offering physics

- % Black and Hispanic
- % White

Bachelor Degree Completion

High School Science Completion

NSF Noyce Funding

Supplemental Appropriation

ARRA (Stimulus Funds)

Request