



National Assessment of Educational Progress (NAEP) 2020 Data Training Workshop

Overview of NAEP

Description: Develop a high-level understanding of assessment cycles in general and important aspects of assessment cycles specific to NAEP.

Item Development, Survey Development, Test Assembly, and Sample Design

Description: Develop a high-level understanding of the test development cycle from framework, instrument development, piloting, and scoring to assembly (including spiraling), complex sample design.

NAEP Psychometric Model and Analysis

Description: Develop a high-level understanding of the NAEP psychometric model, including why NAEP uses plausible values and how to estimate standard errors appropriately.

Reporting and Interpreting NAEP data

Description: Learn why NAEP results are reported in certain ways and how the results should not be used.

Hands-on training with the NAEP Data Explorer (NDE), the NAEP Questionnaire Tool, and other NAEP data tools

Description: Develop a basic understanding of how NAEP data tools work, including NDE.

Brief intro to NAEP Process Data

Description: Introduce the unique features of NAEP process data and provide guidance in making appropriate use of this new data type through real examples.

Intro to R EdSurvey™ package functionality and hands-on practice using NAEP data for data analysis

- Data processing
- Knowing your data
- Data manipulation-getData
- Using EdSurveyTable™ for data exploration and to get plausible value means
- Visualizing exploratory data analysis
- Achievement levels
- Doing your own analyses using NAEP data

Description: Gain knowledge of EdSurvey™ and its functionality.

Brief intro to other NCES datasets and special studies (e.g., the State Mapping Study)

Description: Gain knowledge of a selection of NAEP special studies

Practice Sessions: Conduct a short analysis based on a guided task in EdSurvey™

Description: Get hands-on practice with EdSurvey™

Intro to EdSurvey™ package functionality and hands-on practice using NAEP data for data analysis (Continued)

- Regression
- Logistic regression
- Gap analysis
- Comparison between student groups
- Comparison between jurisdictions
- Trend analysis
- Doing your own analyses using NAEP data

Description: Get hands-on practice with EdSurvey™

Selected presentations from participants and group discussion on their experiences, challenges, and success stories practicing with NAEP data

Description: Opportunities for clarification, sharing, and feedback

How to get NAEP restricted-use data; NAEP funding streams and opportunities

Description: Share opportunities and knowledge of how to access them

Challenges and opportunities in NAEP components that NCES has identified as needing innovative research and applications

Description: Share knowledge about areas that NCES has identified for innovation