# Documenting Study Context in WWC Reviews of Group Design Studies

Jim Lindsay, Ph.D.

Principal Researcher
American Institutes for Research

Ginger Stoker, Ph.D.

Senior Researcher American Institutes for Research

Natalya Gnedko-Berry, Ph.D.

Senior Researcher

American Institutes for Research





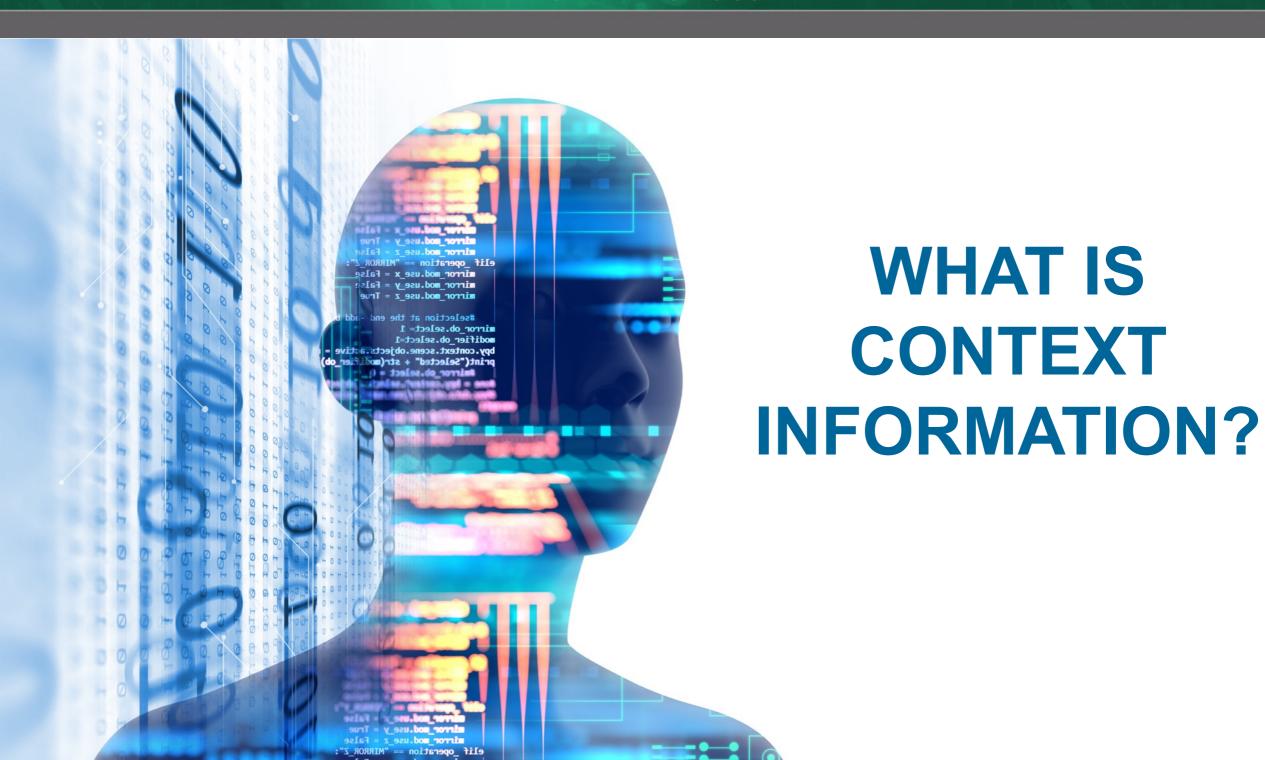
# **Learning Goals for the Webinar**

## During this webinar, you will learn:

- What types of context information should be recorded in the What Works Clearinghouse (WWC) reviews
- Where and how to enter context information in the online study review guide
- Why documenting study context is important



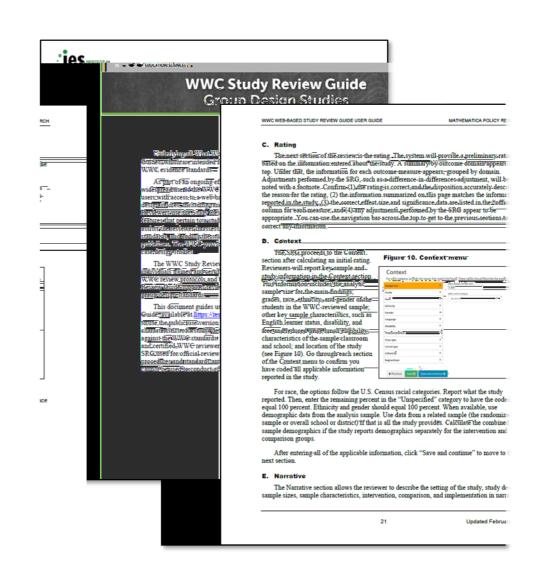






## What Does the WWC Mean by Context Information?

- Context information:
  - Characteristics of the sample (ANALYTIC SAMPLE preferred)
  - Characteristics of the setting
  - Characteristics of the intervention
- Context section of SRG only appears if the study meets standards with or without reservations.



Source: https://ies.ed.gov/ncee/wwc/Docs/ReferenceResources/wwc public srg userguide 022018.pdf

## What Is Context Information?

- Information about the sample, school setting, and intervention associated with the main findings in the study
  - ☐ Sample information includes:
    - Main analytic sample size and unit of analysis
    - Grade level
    - Racial, ethnic, and gender composition of sample
    - Percentage of students learning English
    - Percentage of students with a disability
    - Percentage of students who are economically disadvantaged



## What Is Context Information?

- Information about the sample, school setting, and intervention associated with the main findings in the study
  - □ Sample information
  - Setting information includes:
    - Class type
    - School type
    - Urbanicity
    - Region and state



## What Is Context Information?

- Information about the sample, school setting, and intervention associated with the main findings in the study
  - Sample information
  - ☐ Setting information
  - ☐ Intervention information includes:
    - Method of delivery
    - Program type



# Why Is Context Information Important?

- Greater use among districts and states developing ESSA plans
- Individual studies on WWC website and WWC products now include context information
- More toward the end of the webinar





# DOCUMENTING CONTEXT INFORMATION



## **Summer reading between Grades 4 and 5**

552 students in 10 schools and 34 classrooms randomized within classrooms to the summer reading intervention group OR comparison group

Educational Evaluation and Policy Analysis Winter 2006, Vol. 28, No. 4, pp. 335–355

#### Effects of a Voluntary Summer Reading Intervention on Reading Achievement: Results From a Randomized Field Trial

#### James S. Kim University of California, Irvine

The effects of a voluntary summer reading intervention were assessed in a randomized field trial involving \$52 students in 10 schools. In this study, fourth-grade children received eight books to read during their summer vacation and were encouraged by their teachers to practice oral reading at home with a family member and to use comprehension strategies during independent, silent reading. Reading lessons occurred during the last month of school in June, and eight books were mailed to students biweekly during July and August. The estimated treatment effects on a standardized test of reading achievement (lowa Test of Basic Skills) were largest for Black students (ES = .22), Latino students (ES = .14), less fluent readers (ES = .17), and students who reported owning fewer than 50 children's books (ES = .13). The main findings suggest that a voluntary summer reading intervenion may represent a scalable policy for improving reading achievement among lower performing students.

Keywords: randomized experiments, summer learning, voluntary reading

Numerous empirical studies indicate that the achievement gap in reading forms and widens during summer vacation rather than during the school year. In a study of summer learning in Atlanta, Heyns (1978) found that "the gap between black and white children, and between lowand high-income children widens disproportionately during the months when schools are not in session" (p. 187). A synthesis of studies on summer learning loss (Cooper, Nye, Charlton, Linday, & Greathouse, 1996) showed that middle-income students enjoyed reading gains during the summer, whereas low-income students lost ground. Longitudinal studies have continued to show that gaps in reading achievement based on children's socioeconomic status (SES) grow larger during summer vacation than during the school year (Alexander, Entwisle, & Olson, 2001; Downey, von Hippel, & Broh, 2004). In addition, there is some evidence that summer reading loss is greater for

minority students than for White students (Heyns, 1987; Klibanoff & Haggart, 1981; Murnane, 1975; Phillips, Crouse, & Ralph, 1998).

Although there are many potential causes of summer reading loss, access to books and voluntary reading are likely to play a critical role in promoting reading achievement outside school (Cunningham & Stanovich, 1998; Entwisle, Alexander, & Olson, 2000; Heyns, 1978). Some scholars have suggested that policies designed to increase access to books may keep the learning faucet open when schools are closed during summer vacation (Entwisle et al., 2000). Voluntary reading interventions, in which children receive free books and are encouraged to read at home, may represent a scaleable policy strategy for promoting reading achievement during summer vacation. However, there is little experimental evidence supporting the use of voluntary reading interventions as a large-scale instructional

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The author thanks editors Ellen Goldring and Kenneth Wong and three anonymous reviewers for providing excellent feedback on earlier drafts of this article.



### **Last month of Grade 4:**

- Teachers model five comprehension strategies using "Myth of the Zephyr."
- Teachers also model oral reading in pairs, then students practice.
- Students complete pretests:
  - ☐ ITBS Form A (reading comprehension)
  - □ DIBELS reading fluency (reading fluency)

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### **Summer:**

- Students in intervention group receive reminders about comprehension strategies and the need to read orally to a family member.
- Students in intervention group receive 8 books, which are chosen from 124 books using an algorithm, including reading level and interest.

## **September of Grade 5:**

Students complete posttests (ITBS Form B and DIBELS).

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Keywords: randomized experiments, summer learning, voluntary reading

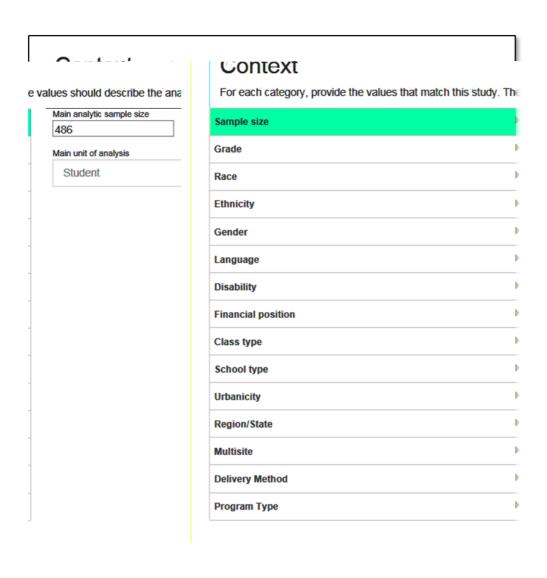
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# Identifying the Main Analytic Sample

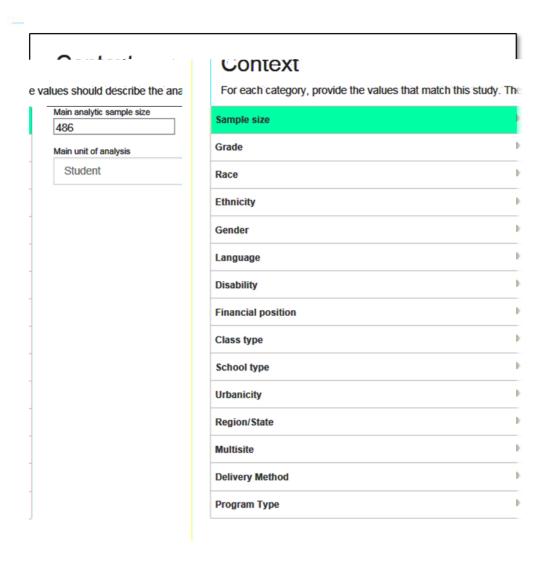


Enter context data at the level of analysis:

- 1 main finding:
  - ☐ Enter the size of the **analytic sample** associated with that finding
- 2 or more main findings for same sample:
  - ☐ Use the analytic sample with the largest sample size (if minor differences due to missing data)



# Identifying the Main Analytic Sample



Enter context data at the level of analysis

- 2+ main findings across different samples (e.g., 3 treatment arms):
  - Use aggregate across all unique groups.



Variable	% Min	Max	M	SD
Female	0.47			
White	0.33			
Black	0.19			
Latino	0.26			
Asian	0.17			
Other	0.05			
Free-reduced lunch	0.39			
Limited English proficiency	0.38			
Title I school	0.26			
Age (months)	108	140	123.45	4.74
Iowa Test of Basic Skills (DSS)	1/42	263	202.78	24.08
Iowa Test of Basic Skills (NPR)	) / 1	99	51.97	28.08
Oral-reading fluency (WCPM)	6	242	120.27	37.83
Elementary Reading Attitude Survey (Total)	23	80	58.45	11.12

Table 1: Sample characteristics at baseline

Tables 4 & 5: Analytic samples for ITBS and DIBELS

TABLE 4

Ordinary Least Squares Models Predicting Treatment Effect on ITBS (Total Reading Scores)

	All	White	Black	Latino	Asian
Variables	B(SE)	B(SE)	B(SE)	B(SE)	B(SE)
Treatment	0.08~	0.11	0.22*	0.14~	-0.17
	(0.04)	(0.09)	(0.09)	(0.08)	(0.11)
Spring ITBS	0.87**	0.84**	0.83**	0.77**	0.88**
	(0.02)	(0.04)	(0.05)	(0.05)	(0.07)
(Constant)	-0.07	-0.03	-0.17~	-0.12	0.07
	(0.05)	(0.10)	(0.09)	(0.09)	(-0.13)
$R^2$	0.76	ŷ./1	0.76	0.69	0.71
N	486	160	93	125	85

Note. All models include fixed effects for the randomization block. Standard errors in parentneses.

The model for "other ethnic students" (21 multiethnic, 2 Native American) revealed nonsignificant treatment effects.  $\sim p < .10, *p < .05, **p < .01.$ 

TABLE 5

Ordinary Least Squares Models Predicting Treatment Effect on Oral Reading Fluency (WCPM)

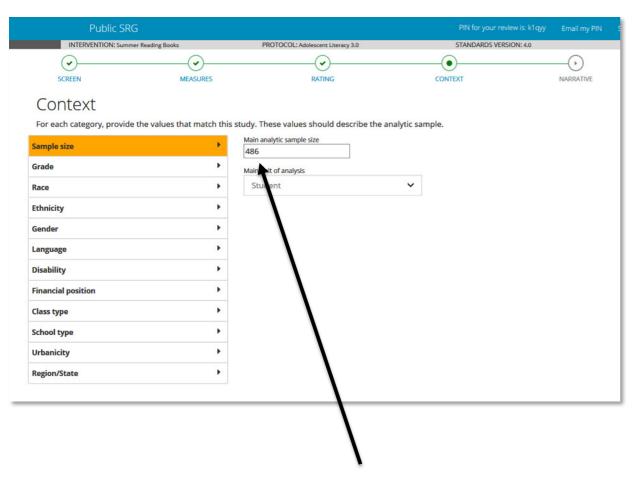
		0 55	O .		
	All	White	Black	Latino	Asian
Variables	B(SE)	B(SE)	B(SE)	B(SE)	B(SE)
Treatment	-2.09	-2.83	-1.79	-2.21	-0.41
	(1.50)	(2.73)	(3.31)	(2.81)	(3.95)
Spring WCPM	0.83***	0.86***	0.83***	0.77***	0.77***
	(0.02)	(0.04)	(0.05)	(0.05)	(0.05)
(Constant)	11.08***	7.24	12.21~	17.00**	20.14*
	(-3.07)	(-5.51)	(-6.72)	(-6.37)	(8.54)
$R^2$	0.80	0.00	0.81	0.73	0.75
N	450	150	85	116	80

Note. All models include fixed effects for the randomization block. Standard errors in parentneses.

Sample sizes for OLS models predicting fluency are not equal to the ITBS analysis because of missing data on the fall fluency assessment.

 $\sim p < .10, *p < .05, **p < .01.$ 





Number of cases in analysis = 486 (main finding with largest sample)

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## N (ITBS) = 486 N (DIBELS) = 450

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N	450	150	85	116	80

Note. All models include fixed effects for the randomization block. Standard errors in parentheses.

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# **Knowledge Check 1**

Langberg et. al (2017) evaluated the effectiveness of two brief school-based interventions targeting the homework problems of adolescents with attention-deficit/hyperactivity disorder (ADHD)—the Homework, Organization, and Planning Skills (HOPS) intervention and the Completing Homework by Improving Efficiency and Focus (CHIEF) intervention.

Before the beginning of the school year, 280 middle school students with ADHD were randomized to study groups: the HOPS intervention (113 students), the CHIEF intervention (115 students), and a wait-listed control group (52 students). At the end of the school year, posttest data were available for 108 HOPS students, 106 CHIEF students, and 49 wait-listed control students. Analyses compared each of the results from the two treatment groups to each other as well as to the control group.

### What is the main analytic sample size for this study?

- **a.** 280
- **b.** 263
- **c.** 157
- **d.** 312



# **Knowledge Check 1**

**A is not a correct answer.** While 280 students were randomly assigned to treatment and control conditions, posttest data were not available for all students.

**B is the correct answer.** Posttest data were included in the main analyses for 49 wait-listed control group students, 108 students who participated in the HOPS intervention, and 106 students who participated in the CHIEF intervention.

C is not a correct answer. Although analyses comparing the results from students in the HOPS group and the wait-listed control group are main findings, analyses comparing results from students in the CHIEF group and the wait-listed control group were also main findings. All unique members included in main findings should be counted in the main analytic sample.

**D** is not a correct answer. Although comparisons were made between both interventions and the control group, the control group students should not be counted twice.

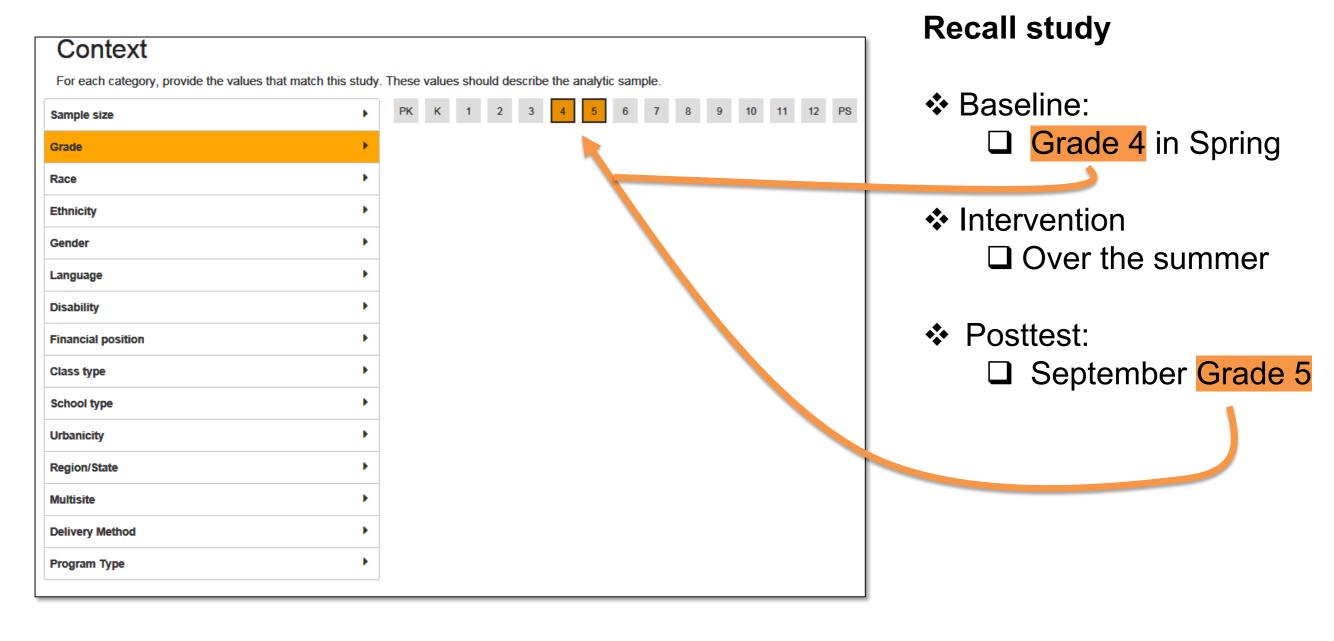


## **Grade Level**

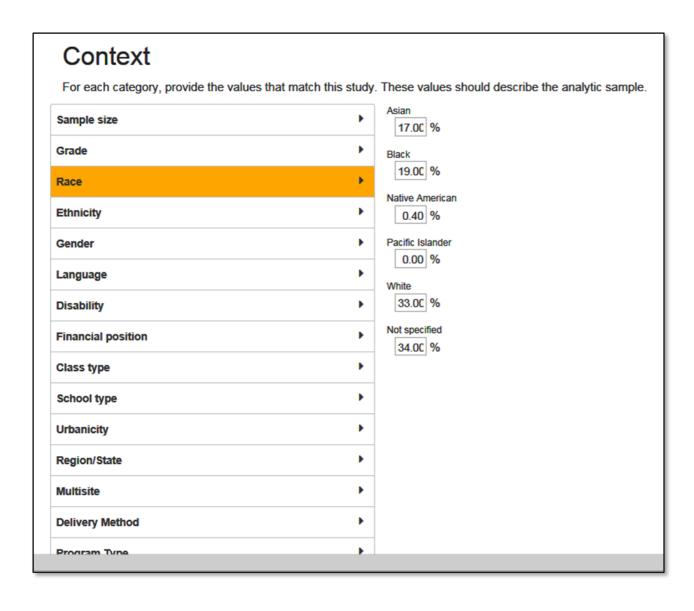


Enter **ALL** grade levels for students in the main analytic sample.

- ❖ PK → Prekindergarten
- ❖ K → Kindergarten
- ❖ Individual Grades 1–12
- ❖ PS → Postsecondary



## Race



Enter **percentages** of analytic sample who are the following:

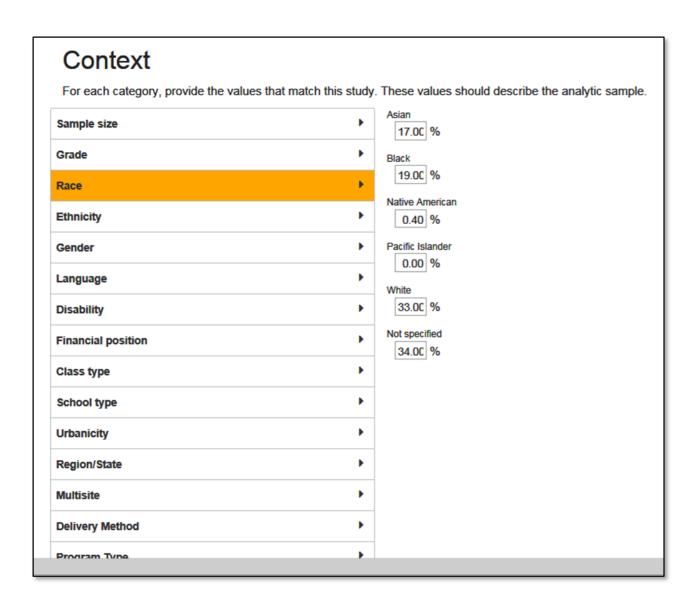
- Asian
- Black
- Native American
- Pacific Islander
- White
- Not Specified

Race only provided for baseline sample?

Use baseline sample if necessary.



## Race



Percentages for only some racial groups?

Use Not Specified.

Where is Hispanic/Latino?

- Documented in Ethnicity field (next).
- Include number as Race Not Specified.

Variable	% Min	Max	M	SD
Female	0.47			
White	0.33			
Black	0.19			
Latino	0.26			
Asian	0.17			
Other	0.05			
Free-reduced lunch	0.39			
Limited English proficiency	0.38			
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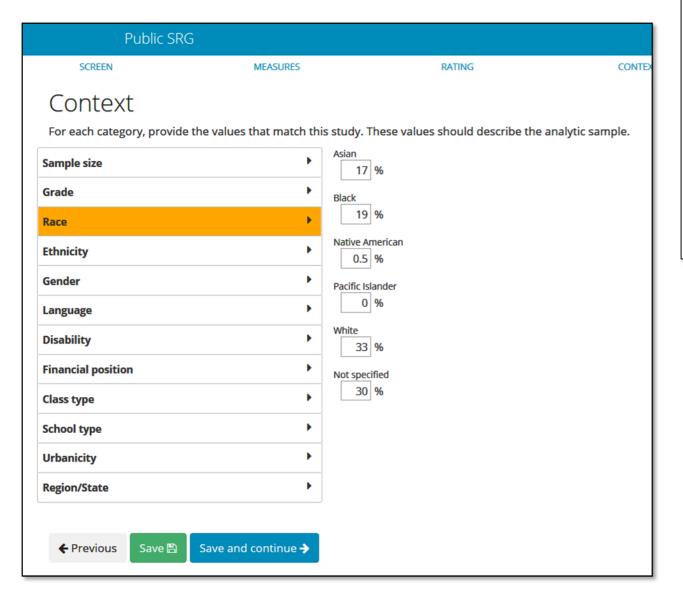


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Asian = 85/486 = 17%

Black = 93/486 = 19%

Native American = 2/486 = 0.4%

Pacific Islander = 0

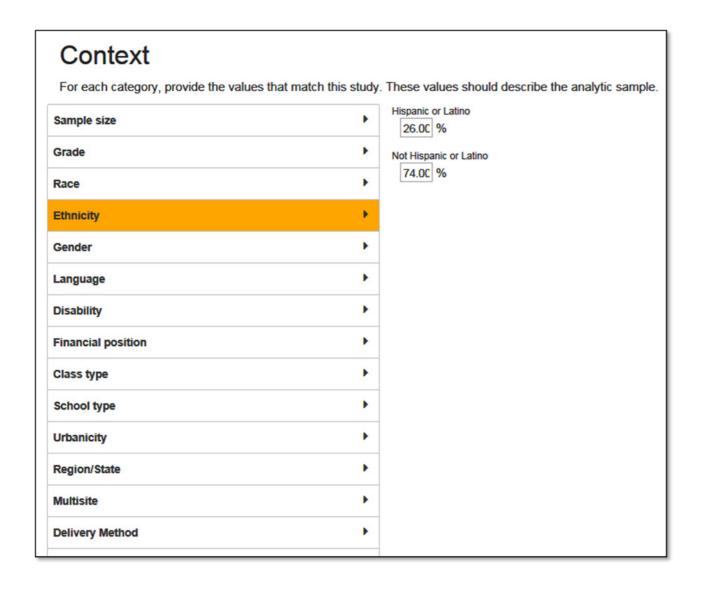
White = 160/486 = 33%

Not Specified =

multiethnic + "Latino" = (21+125)/486 = 30%

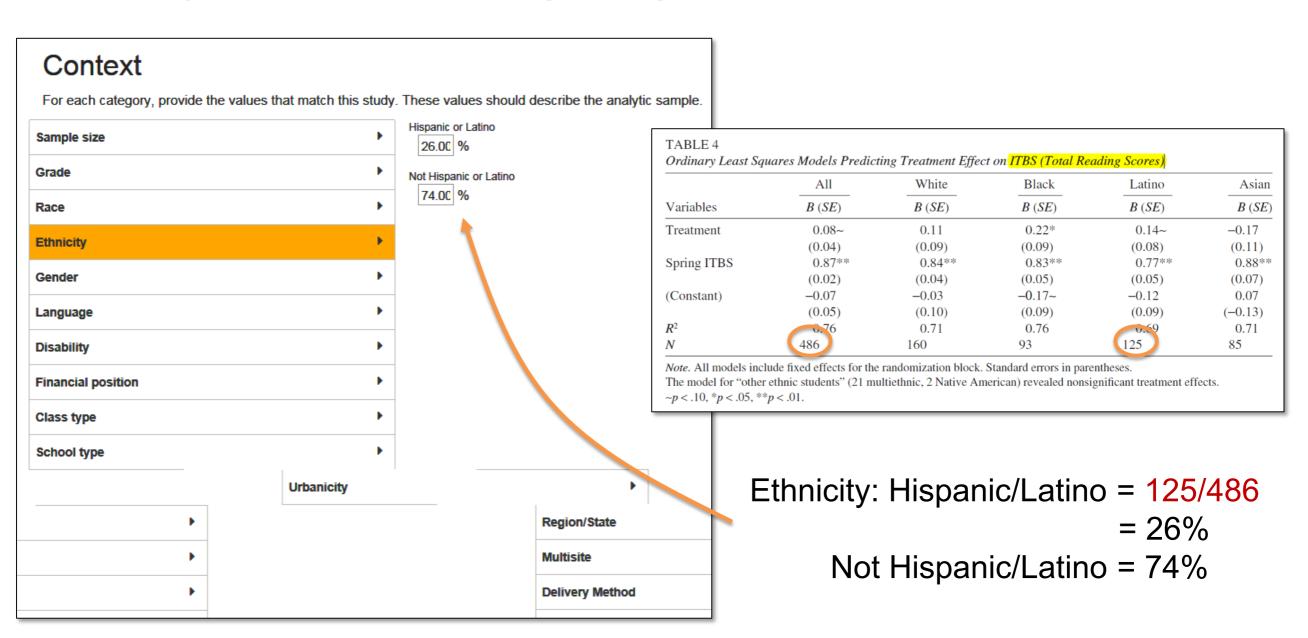


## **Ethnicity**



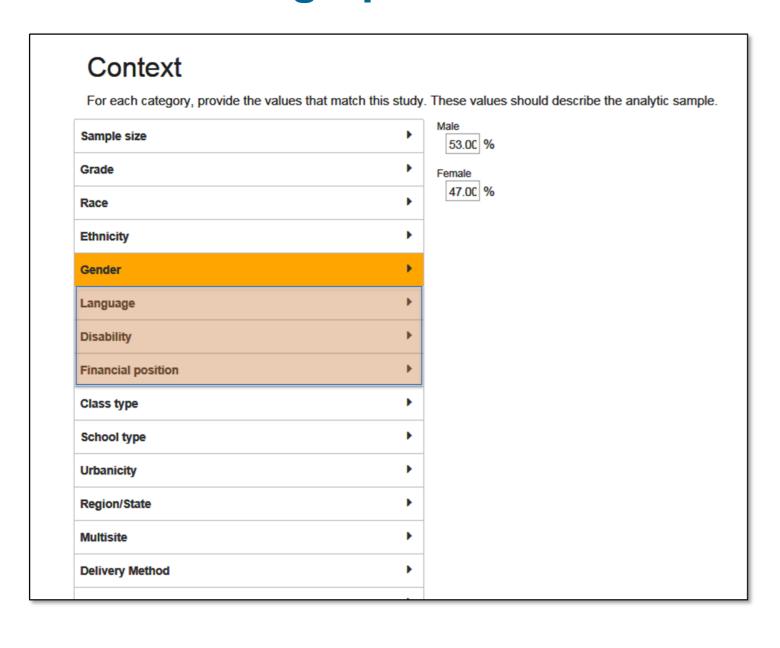
- ❖ Ethnicity → independent of race
- Fill in percentage of analytic sample that is Hispanic or Latino.
- Remainder of sample is Not Hispanic or Latino.
- Only leave blank if ethnicity information is not provided.







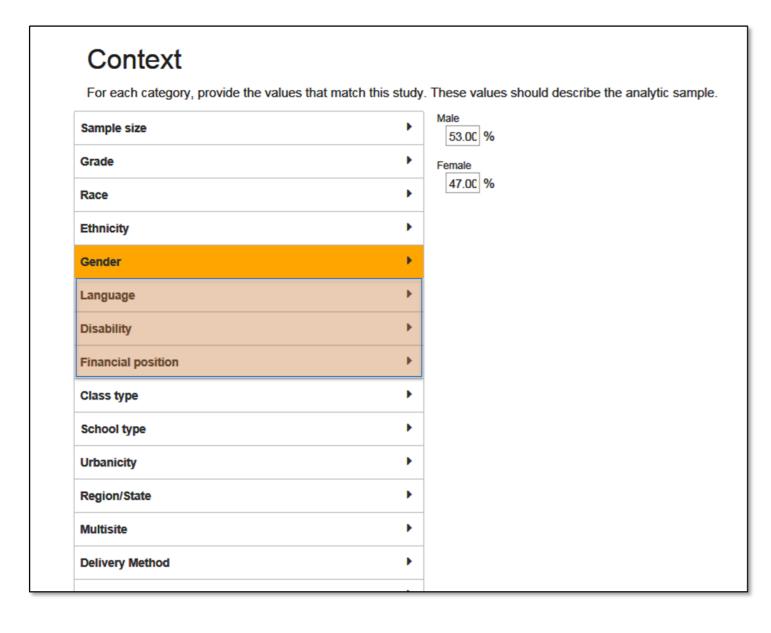
## **Other Demographic Data**



Same process for following fields:

- Gender
- Language (% English learners)
- Disability
- Financial position

## **Other Demographic Data**



No demographics for analytic sample?

Use percentages from baseline sample.

No information at all?

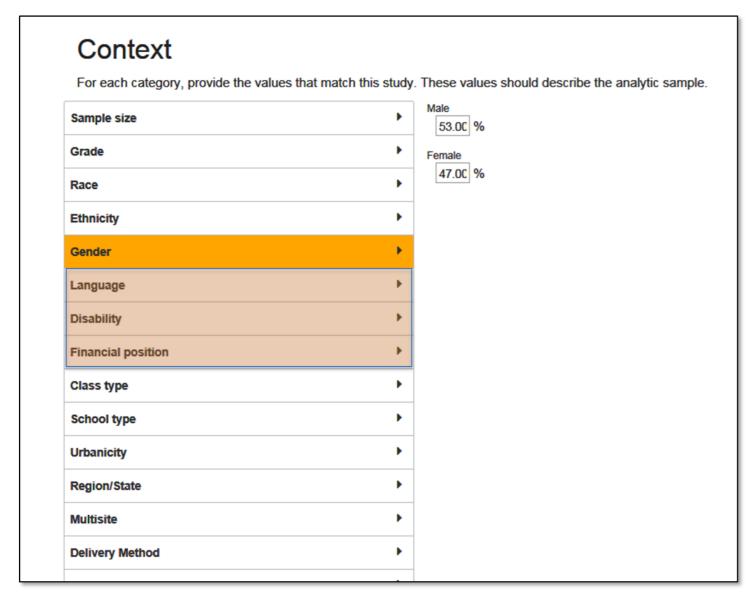
Author query (AQ).

No response to AQ?

Leave blank.



## **Other Demographic Data**



No demographics for analytic sample?

Use percentages from baseline sample.

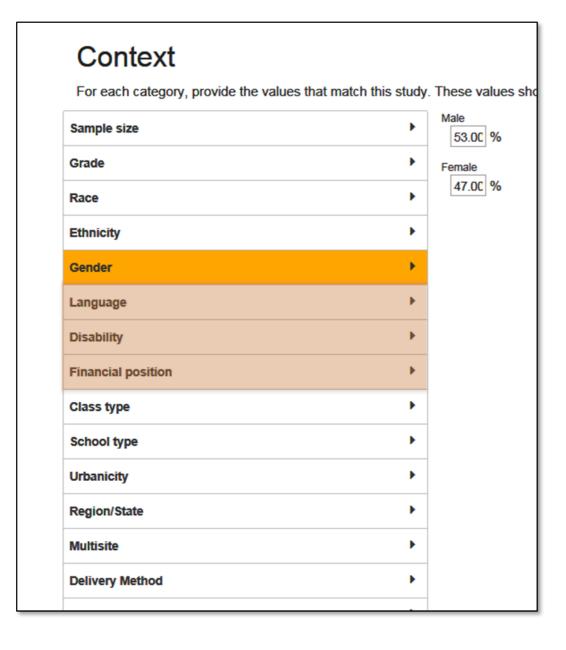
No informall?

\* AuINFERENCES

No respondance AQ?

Leave bla.





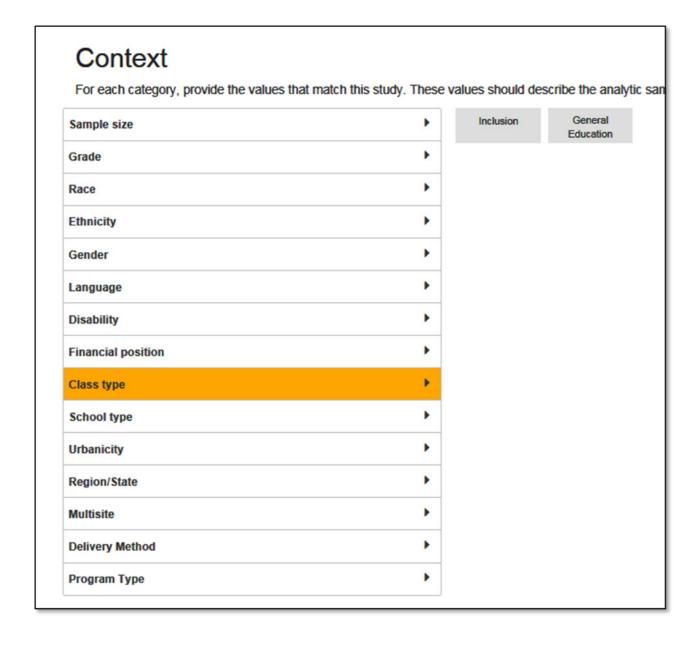
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Iowa Test of Basic Skills (DSS)		142	263	202.78	24.08
Iowa Test of Basic Skills (NPR)		1	99	51.97	28.08
Oral-reading fluency (WCPM)		6	242	120.27	37.83
Elementary Reading Attitude Survey (Total)		23	80	58.45	11.12

Demographic data are missing from analytic sample. Use characteristics for **baseline sample**:

- Gender = 47% female, 53% male
- Language = 38% English learner students
- Disability = ? (AQ, leave blank not stated)
- Financial position = 39% eligible for free or reduced-price lunch



# **Class Type**



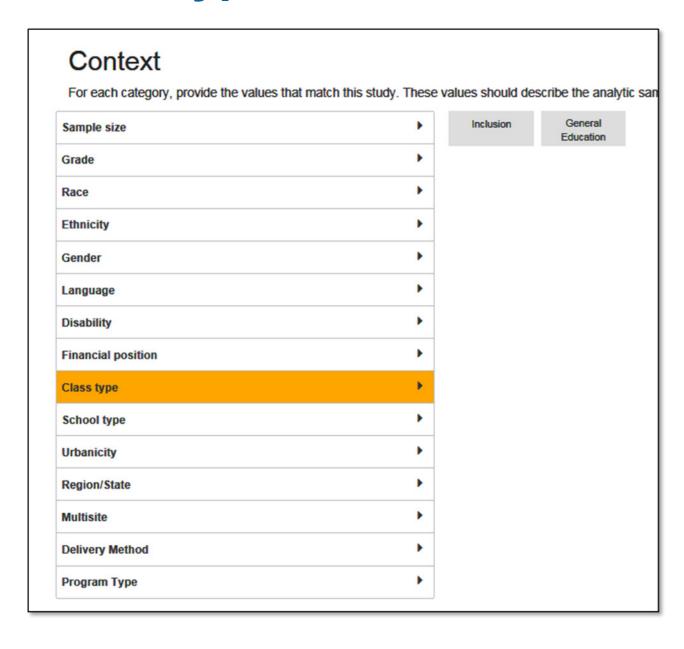
## Choices for Class type:

- Inclusion Defined as classrooms where students with disabilities are present alongside students without disabilities
- General Education Defined as classrooms that do not include students with disabilities

Note: You can choose both types.



# **Class Type**



Information for analytic sample not given?

Use information from baseline sample.

Information not provided for baseline sample?

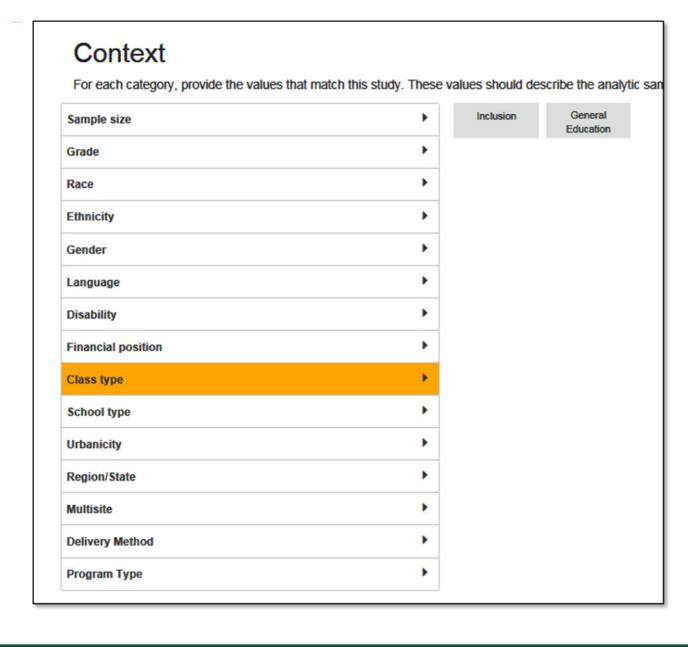
Query the author.

No response to author query?

Leave blank.



# **Class Type**



Information for analytic sample not given?

Use information eline sample.

Information of the sample INFERENCES line

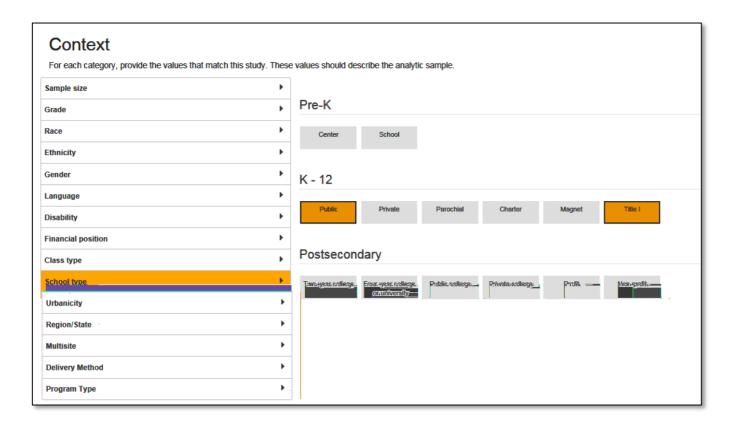
Query author.

No response to ery?

Leave **blank**.



# **School Type**

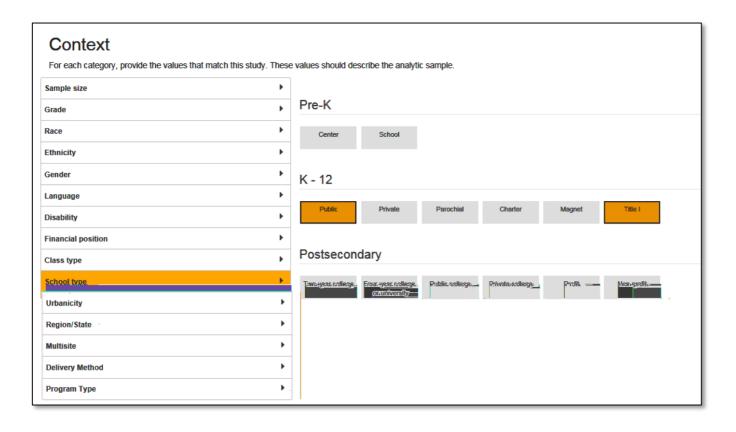


## If sample is in pre-K:

- Center is a learning environment or building that is exclusively pre-K. Administration and specialists focus on pre-K.
- School in which the pre-K environment is embedded in a building that also serves other grade levels. Administration and specialists do not exclusively focus on pre-K.



# **School Type**

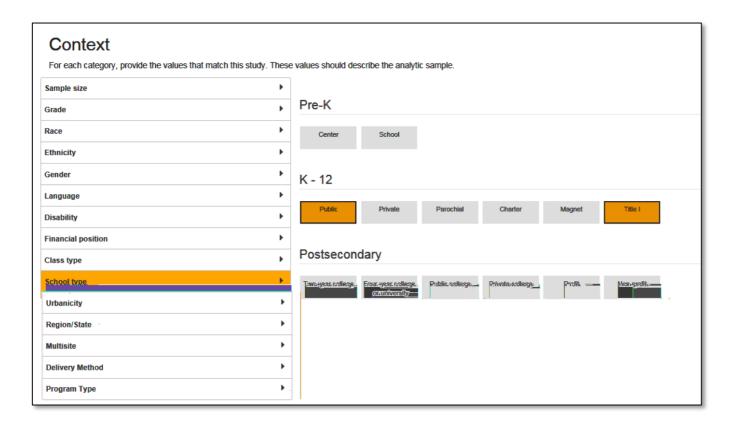


## If sample is in K-12:

- Public: Funded primarily through public money
- Private: Funded by students' families (usually); minimal state oversight
- Parochial: Private and affiliated with a religious institution
- Charter: Public but independent of districts; school of choice
- Magnet: Public school offering special instruction not available elsewhere (e.g., specific career focus)
- Title I: Schools that receive federal funding because they serve larger concentrations of low-income students



# **School Type**

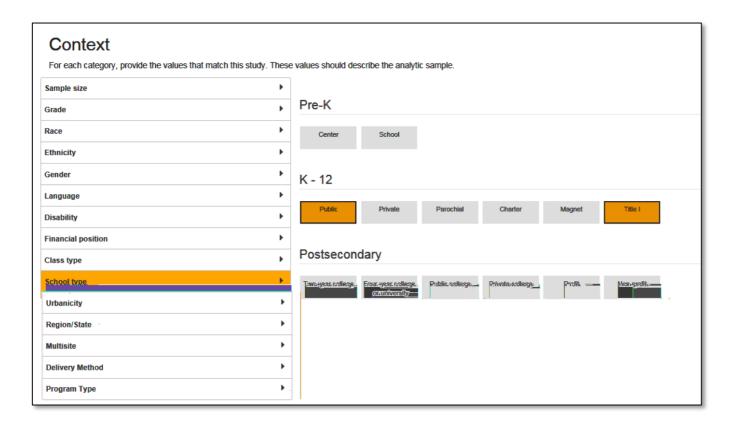


## If sample is in postsecondary:

- 2-year colleges: Offer professional certifications and associates degrees; also called community colleges or junior colleges
- 4-year colleges or universities: Offer bachelor's degrees, and some offer graduate degrees
- Public college: Publicly owned or receives significant funding from a state



## **School Type**

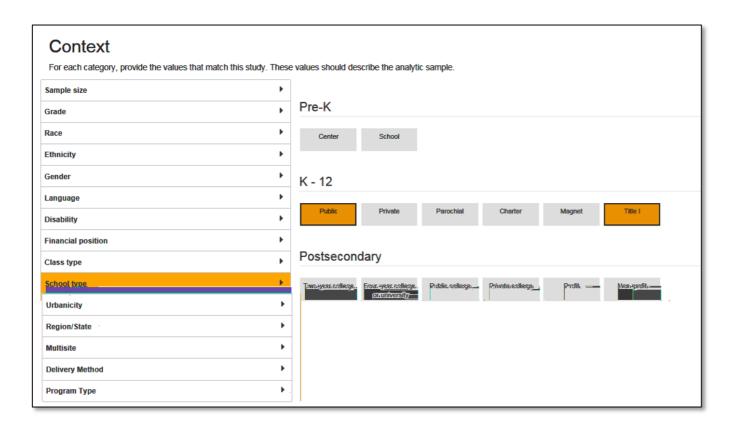


#### If sample is in postsecondary:

- Private college: Not operated by a state or local government, although may receive tax breaks, student loans, and grants
- For-profit college: Higher education institutions operated by profit-seeking businesses
- Not-for profit college: Funds/tuition focused on students and not diverted to investors or those seeking profits



## **School Type**



Information on school type missing?

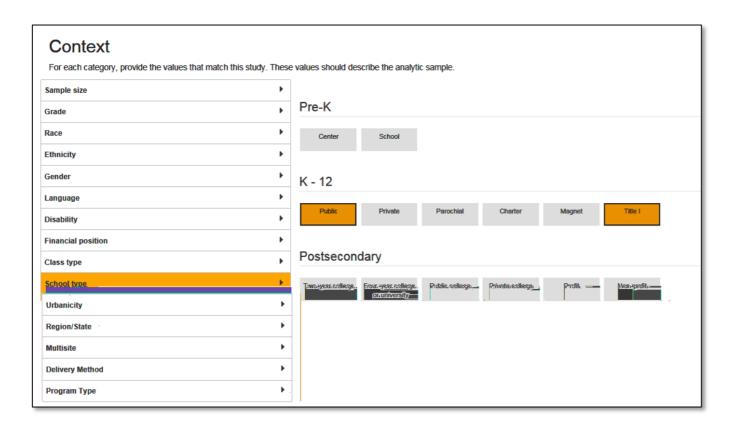
Query the author

No response to author query?

Leave blank



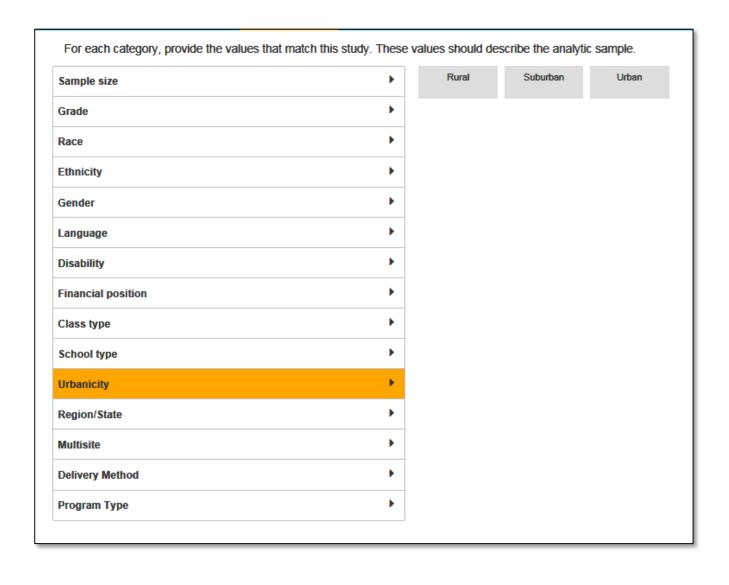
## **School Type**







## **Urbanicity**



Choices for **Urbanicity**:

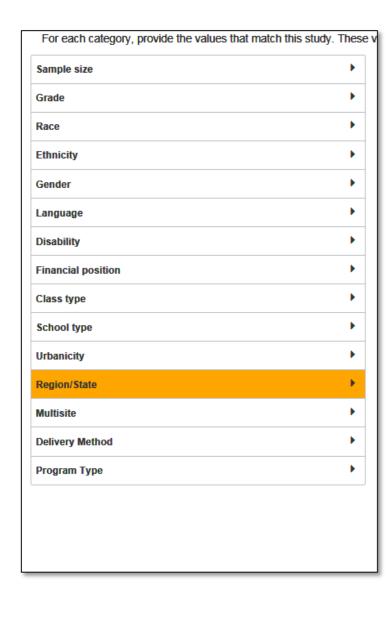
- ❖ Rural
- Suburban
- Urban

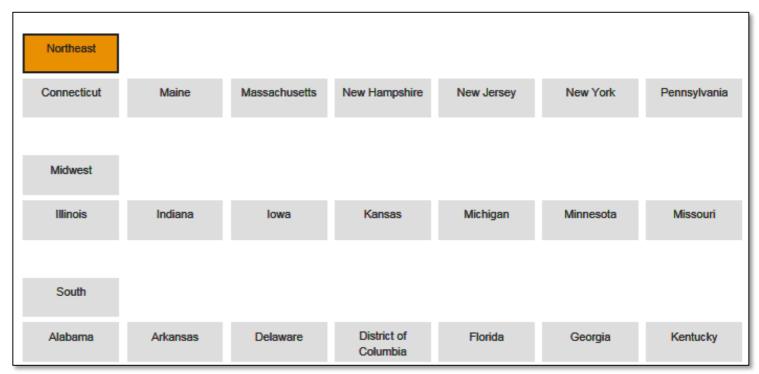
Studies do not need to adhere to any formal definition. Choose a setting based on the **author's description**.

**Note:** You can choose **multiple types** of locales if the study was conducted in **multiple settings**.



# **Study Location**



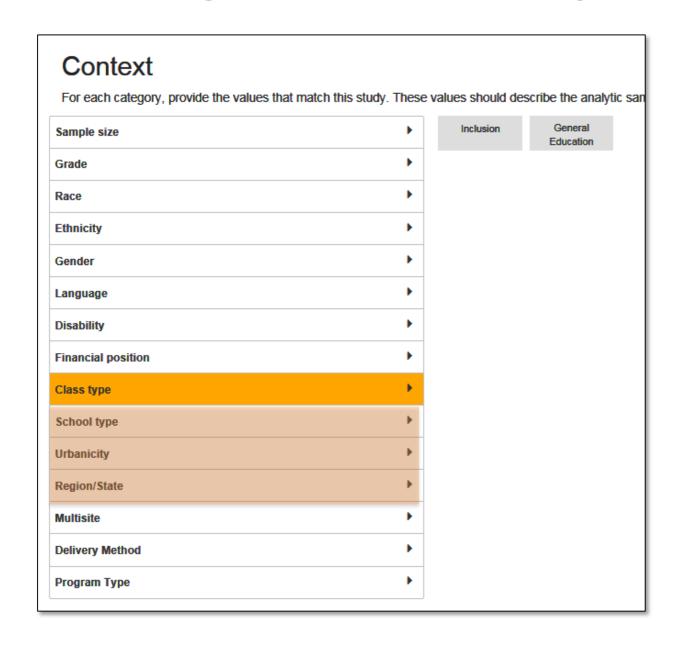


Choose all states and regions represented in the sample.





# Working Example: Kim (2006)



Class type (inclusion, general education):

Leave blank and query author

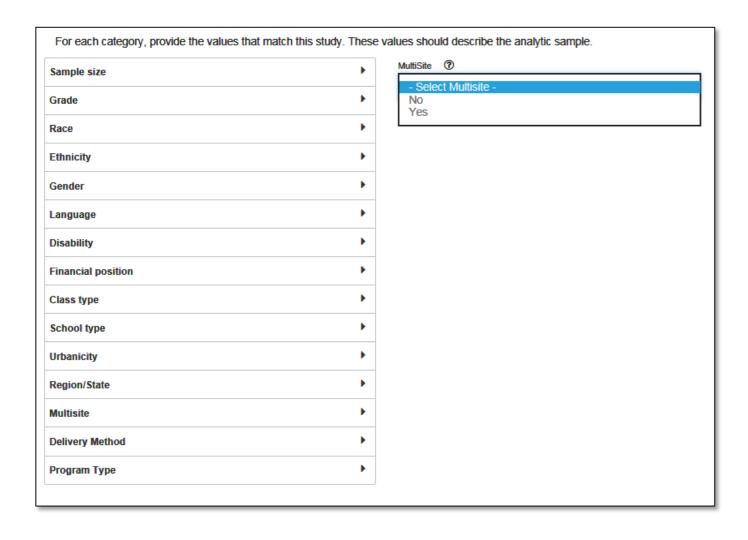
School type: K-12, Public, Title 1 Urbanicity: No information given

Leave blank and query author

Region/state: Mid-Atlantic??

Query author

## **Multisite**



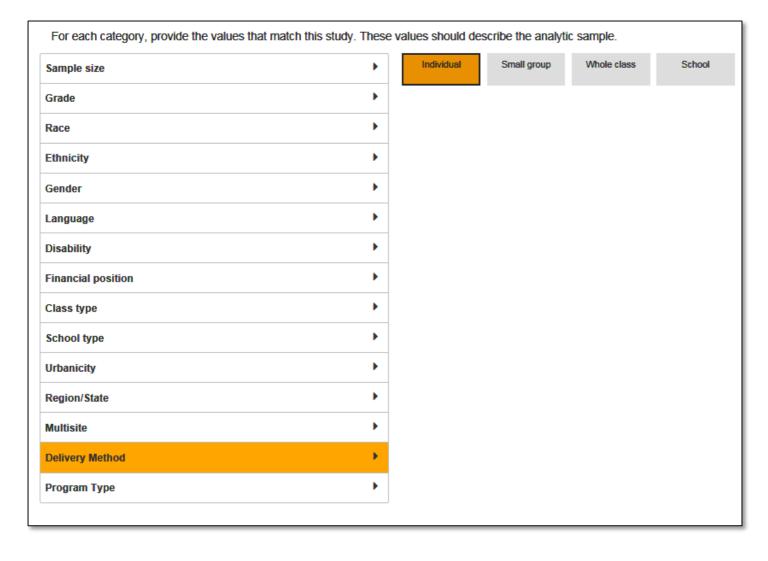
**Multisite**: Was the study conducted in multiple settings?

Sites interpreted as schools.

Reviewers must choose NO or YES.



## **Delivery Method**

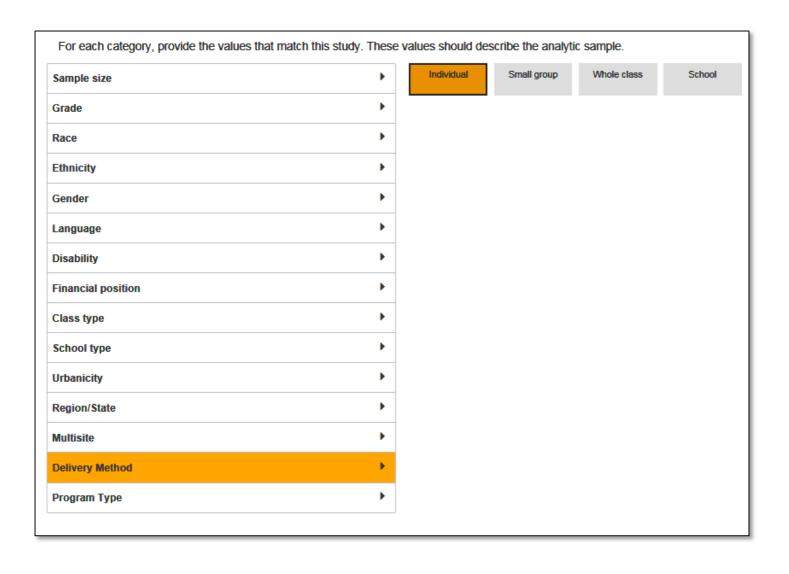


How was the intervention **delivered** to students?

- Individual: One-on-one, to include computer programs and print materials; Tier 3
- Small groups: Fewer than whole class; Tier 2
- Whole class: Whole class at once;
  Tier 1
- Entire school: All teachers and administrators in school or all students at once



## **Delivery Method**

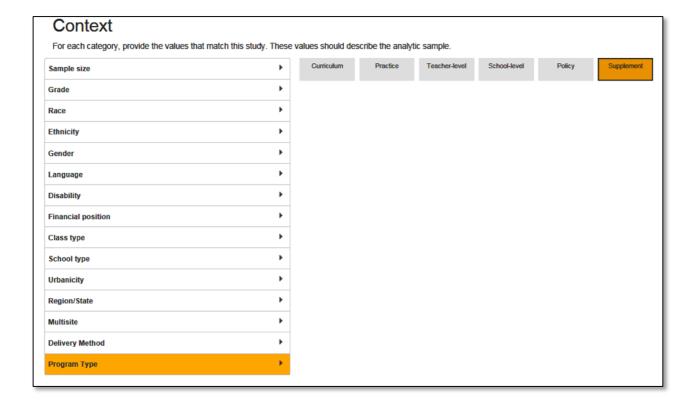


Select all that apply.

Interventions can have multiple components with some schoolwide activities and some small-group activities.



## **Program Type**

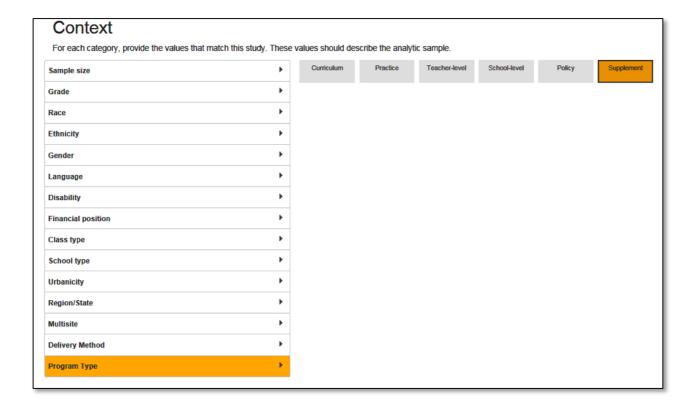


Program types may be defined in protocol. In general:

- **Curriculum:** What is being taught
- Practice: How it is being taught
- \* Teacher-level: Teacher implements
- School-level: Teachers may implement, but most teachers in school are involved, and administrators may be involved



## **Program Type**



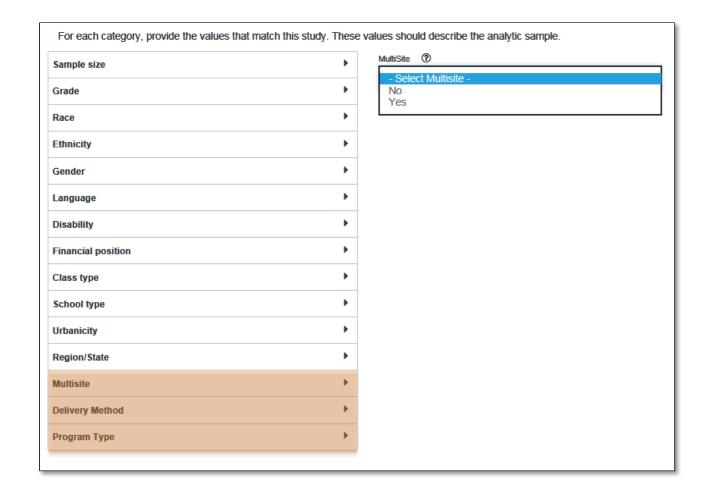
#### In general:

- Policy: Laws or rules that govern the education system (broader than school; might be district or state rules)
- Supplement: An intervention that engages students outside of their normal education activities

**Note:** Multiple categories may apply



# Working Example: Kim (2006)



#### **Multisite:**

Yes: Study conducted in multiple schools

#### **Delivery method:**

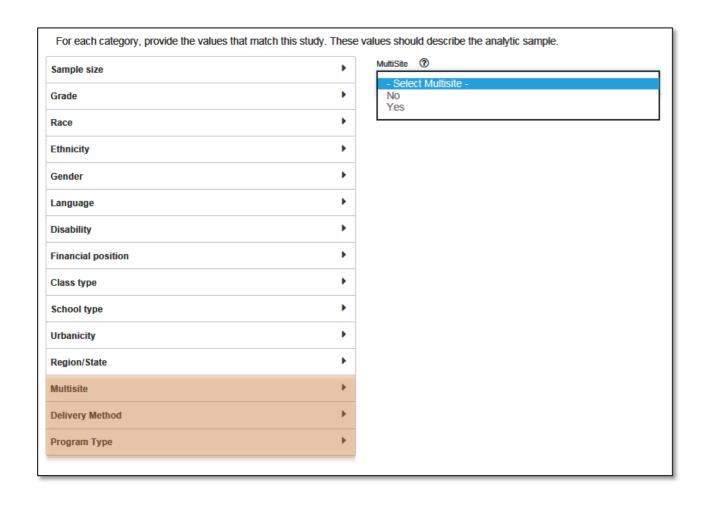
Individual: Books that students receive are tailored to their interests and reading levels

#### **Program type:**

Supplemental: Intervention supplements instruction and other school activities



# Working Example: Kim (2006)



Unable to determine delivery method or program type?

Query the author.

No response to author query?

Leave blank.



Fuchs et. al (2017) examined the effects of a reading comprehension intervention (COMP) alone and in combination with a working memory training component (WCOMP). The intervention was administered to students from 50 classrooms. Eligible students with reading difficulties were randomly assigned in pairs to one of three conditions: COMP, WCOMP, or control group.

For each of 14 weeks, students in both treatment conditions received tutoring three times per week. The first two tutoring sessions of each week lasted 45 minutes and were delivered to pairs of students. The third session of each week lasted 20 minutes and was delivered to students individually.

#### Which delivery method(s) best describe the intervention?

- a. Individual
- **b.** Small group
- c. Whole class
- d. Whole school



A and B are correct answers. The interventions were administered to pairs of students during the first two sessions each week and individually during the third session each week.

**C** is not a correct answer. The interventions were only administered to eligible students. Not all students in participating classrooms were included in the study.

**D** is not a correct answer. The interventions were not implemented at the school level.

Somer et. al (2016) examined the impact of Ninth Grade Academies on student outcomes. These academies for grade 9 students are self-contained learning communities that operate as schools within schools.

Components of the intervention include a designated separate space within the high school, a grade 9 administrator who oversees the academy, a faculty member assigned to teach only grade 9 students, and teachers organized into interdisciplinary teams that have both students and a planning period in common.

#### What is the program type(s) for this intervention?

- a. Practice
- **b.** Curriculum
- c. Policy
- d. School level



A, B, and C are not correct answers. The intervention is comprised of school-level components.

**D** is the correct answer. The intervention is implemented as a school-level reform model.



# USE OF CONTEXT INFORMATION AND ITS INCREASED IMPORTANCE





### **Previous Use of Context Information in WWC Reviews**

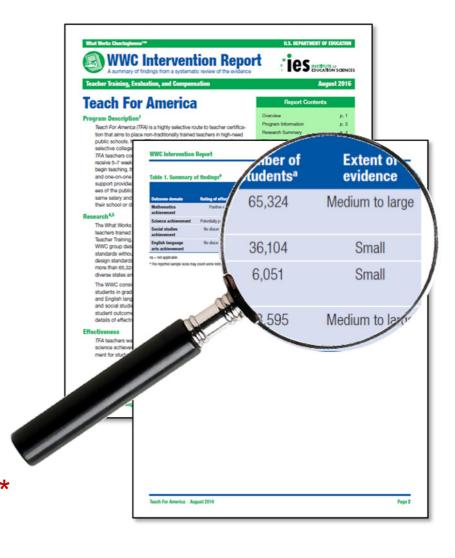
Topic area review teams use context information to determine extent of evidence for an intervention.

Whether extent of evidence was characterized as **Medium to Large** or **Small** was based on the following:

- Number of studies that met WWC standards
- Number of settings in those studies
- Number of students in those studies

\*\*\*This extent of evidence classification is changing.\*\*\*

Stay tuned....

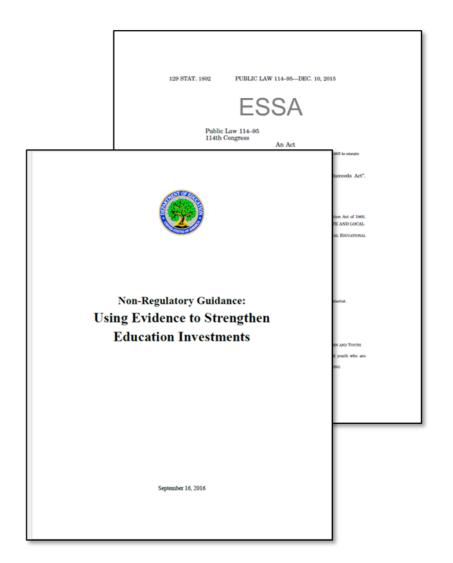




With the U.S. Department of Education's nonregulatory guidance on interpreting tiers of evidence in the Every Student Succeeds Act, stakeholders attend more to study contexts.

#### Strong evidence:

□ Have a sample that overlaps with the populations AND settings proposed to receive the intervention

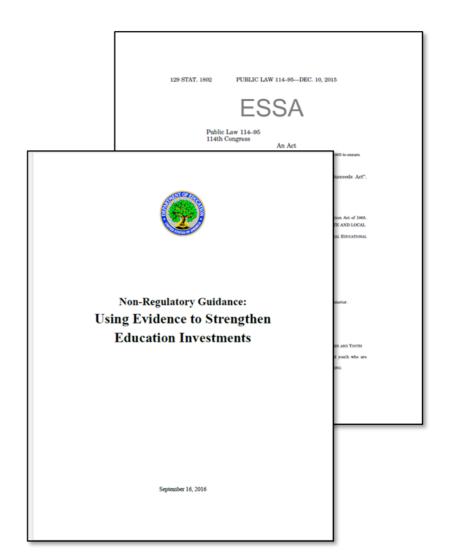




With the U.S. Department of Education's nonregulatory guidance on interpreting tiers of evidence in the Every Student Succeeds Act, stakeholders attend more to study contexts.

#### Moderate evidence:

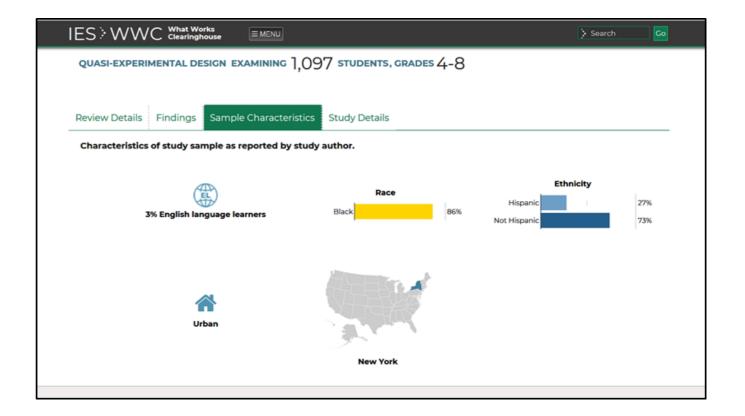
□ Have a sample that overlaps with the populations OR settings proposed to receive the intervention





WWC is making study sample information more prominent in reports.

Sample characteristics tab in Reviews of Individual Studies on the Find What Works website: <a href="https://ies.ed.gov/ncee/wwc/">https://ies.ed.gov/ncee/wwc/</a>





WWC is making study sample information more prominent in reports.

- Sample characteristics tab in Reviews of Individual Studies on the Find What Works website <a href="https://ies.ed.gov/ncee/wwc/">https://ies.ed.gov/ncee/wwc/</a>.
- Sample characteristics will also appear in the new Intervention Report products (4-page brief and Snapshot).





# **Questions?**





## **Contact**

Jim Lindsay, Principal Researcher American Institutes for Research <u>ilindsay@air.org</u>

Ginger Stoker, Senior Researcher American Institutes for Research gstoker@air.org

Natalya Gnedko-Berry, Senior Researcher American Institutes for Research <a href="mailto:ngnedko-berry@air.org">ngnedko-berry@air.org</a>

**WWC Help Desk** 

https://ies.ed.gov/ncee/wwc/help



This work was funded by the U.S. Department of Education's Institute of Education Sciences (IES) for the What Works Clearinghouse under contract 919900180019, administered by American Institutes for Research. The content of this product does not necessarily reflect the views or policies of IES or the U.S. Department of Education, nor does mention of trade names, commercial products, or organizations imply endorsement by the U.S. government.

## References

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