

Geographical Information Systems (GIS) to Understand Workforce Patterns Workshop 2: Working with GIS Maps

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Agenda

- Welcome and training overview
- GIS maps demonstration
- Louisiana Department of Education GIS maps practice
- Discuss remaining preliminary maps
- Plan for obtaining remaining data needed
- Discuss dates for upcoming sessions
- Closing



GIS maps: Demonstration



In which school systems do we have the greatest need for appropriately certified teachers?

- In which area(s) of the state is the need for appropriately certified teachers the highest?
 - In what number of school districts does the need for appropriately certified teachers exceed 50%?
- In which area(s) of the state is the need for appropriately certified teachers the lowest?
 - In what number of school districts is the need for appropriately certified teachers 15% or lower?
- In Grant Parish School District, which school has the highest need for appropriately certified teachers?
 - What percentage of teachers in this school are out of field, and what percentage of teachers in this school are uncertified?
 - What is the school grade letter for this school?
 - Is this school a Comprehensive Intervention Required (CIR) school?



GIS maps: Practice



In which subject areas do we have the greatest need for appropriately certified teachers?



- In which subject area(s) is the need for appropriately certified teachers the highest?
 - In what number of districts is the number of courses in this area taught by out-of-field or uncertified teachers exceed 60?
- In which area(s) are most in need of appropriately certified science teachers? In which area(s) is the need for appropriately certified science teachers the lowest?
- In which area(s) of the state is the need for appropriately certified special education teachers the highest? In which area(s) is this need the lowest?
- In Monroe City School District, in which subject area is the need for appropriately certified teachers the highest?
 - In what number of schools does the percentage of math courses taught by out-of-field or uncertified teachers exceed 80%

Outstanding data needs



Remaining data needs

- School and student characteristics data
 - Student demographics
 - School addresses
 - District NCES ID and state ID crosswalk
- Retention and experience of teachers and gender and race/ethnicity compared to students
 - Educator effectiveness
 - Educator experience
 - Educator retention
 - Educator demographics

Timeline for receiving data



Next work session

- TBD: January 2021
 - Use maps to identify key problem areas
 - Conduct root cause analysis



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