

Change Over Time

Correlation

Comparison

Characteristics

Example Dataset



SurveyWorks data allow us to see how students feel about their school's culture and climate. Annually, for most years since 1997, RI has administered an opinions-and-perceptions survey to parents, teachers and students.

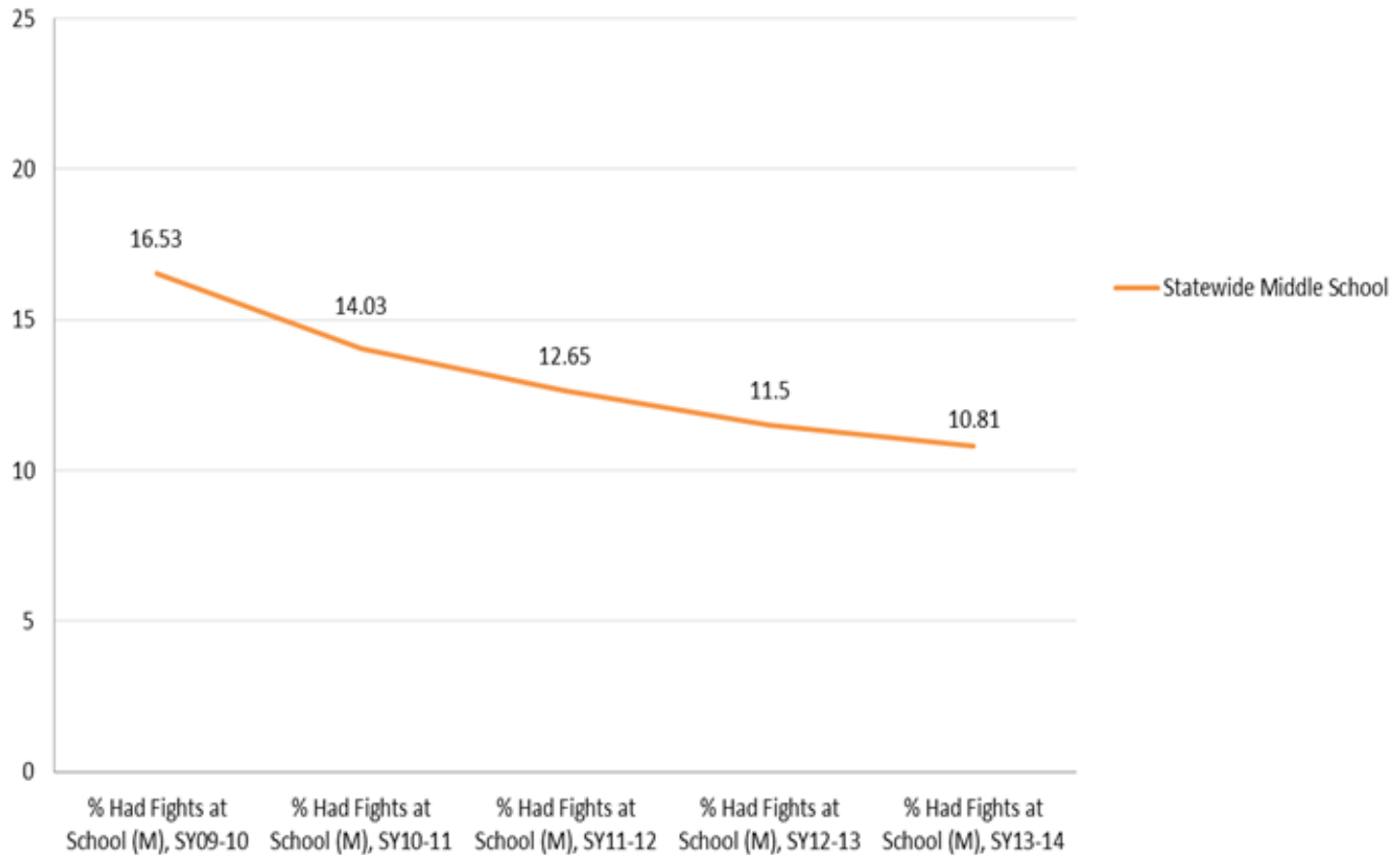
Change Over Time

How does it change?

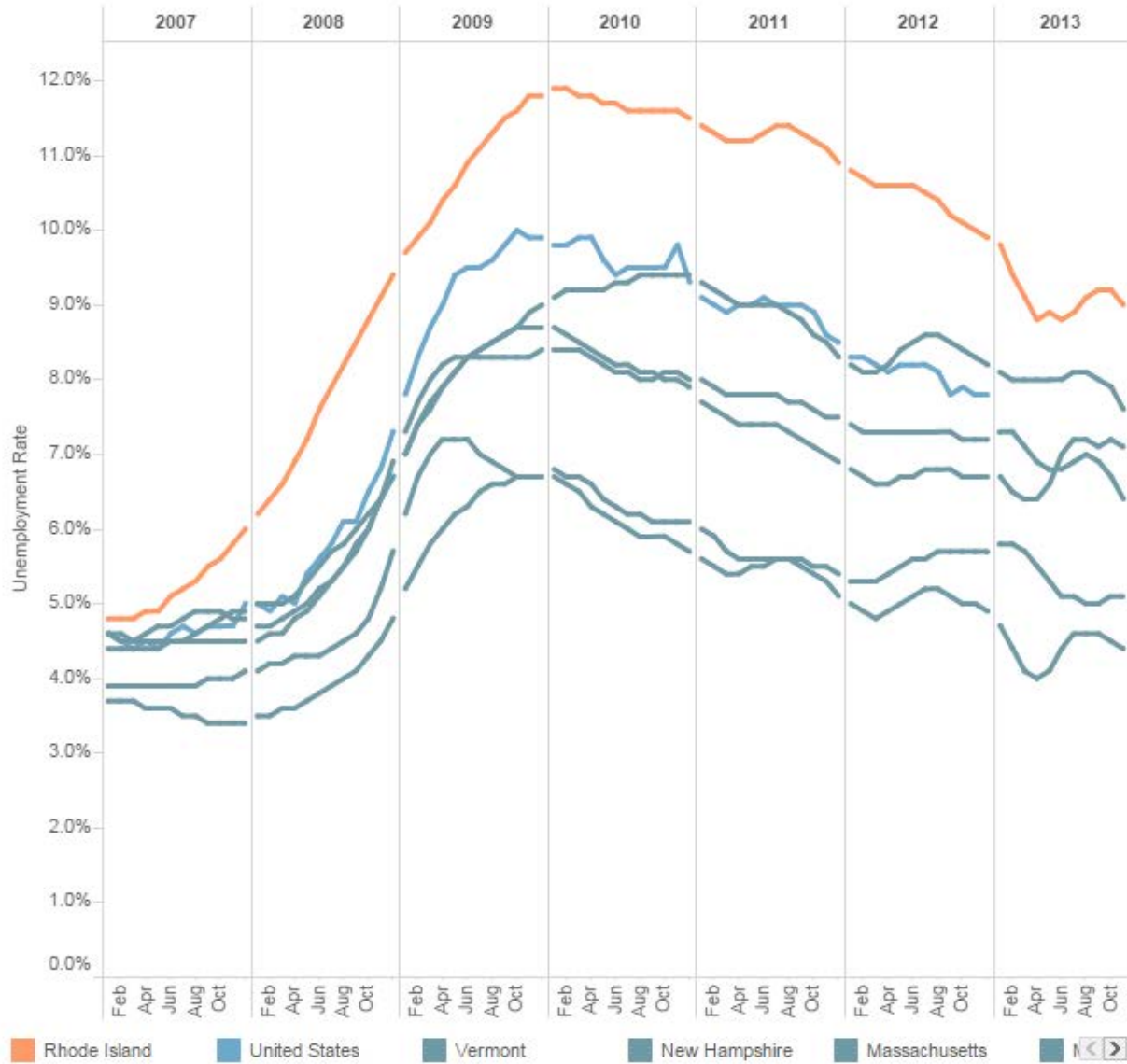
*Does the data have multiple **years**?*

*If it does have multiple years is there a **trend**?*

State Wide Average % of Students Who Reported Being in A Fight In Middle School



Unemployment By State



Correlation

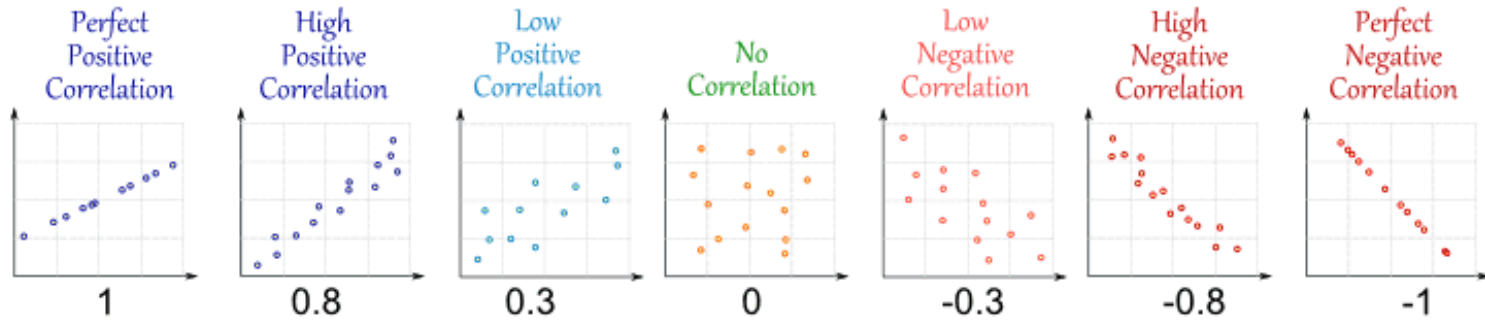
Interaction

*How does the data **interact**?*

*If one measure goes **up**, the other goes **up too**.
If one goes **down**, the other goes **down**.*

***Noun.** Interaction of two or more things, parts, etc.*

***Statistics.** the degree to which two or more measurements on the same group of elements show a tendency to vary together.*



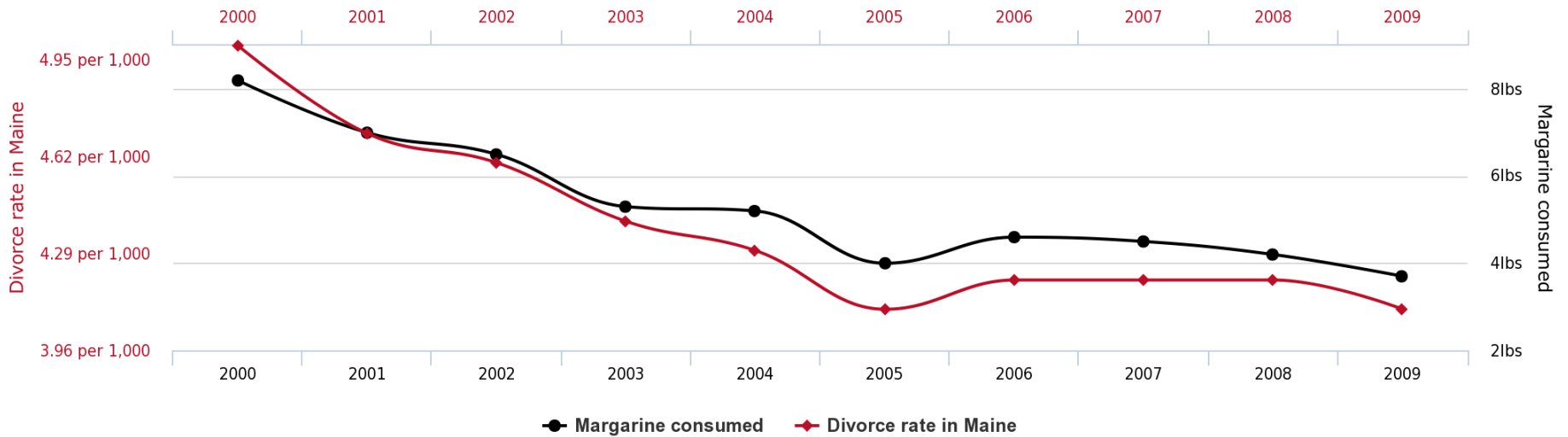
<http://ridatahub.org/datastories/middle-school-experiences/10/>



Divorce rate in Maine

correlates with

Per capita consumption of margarine



Comparison

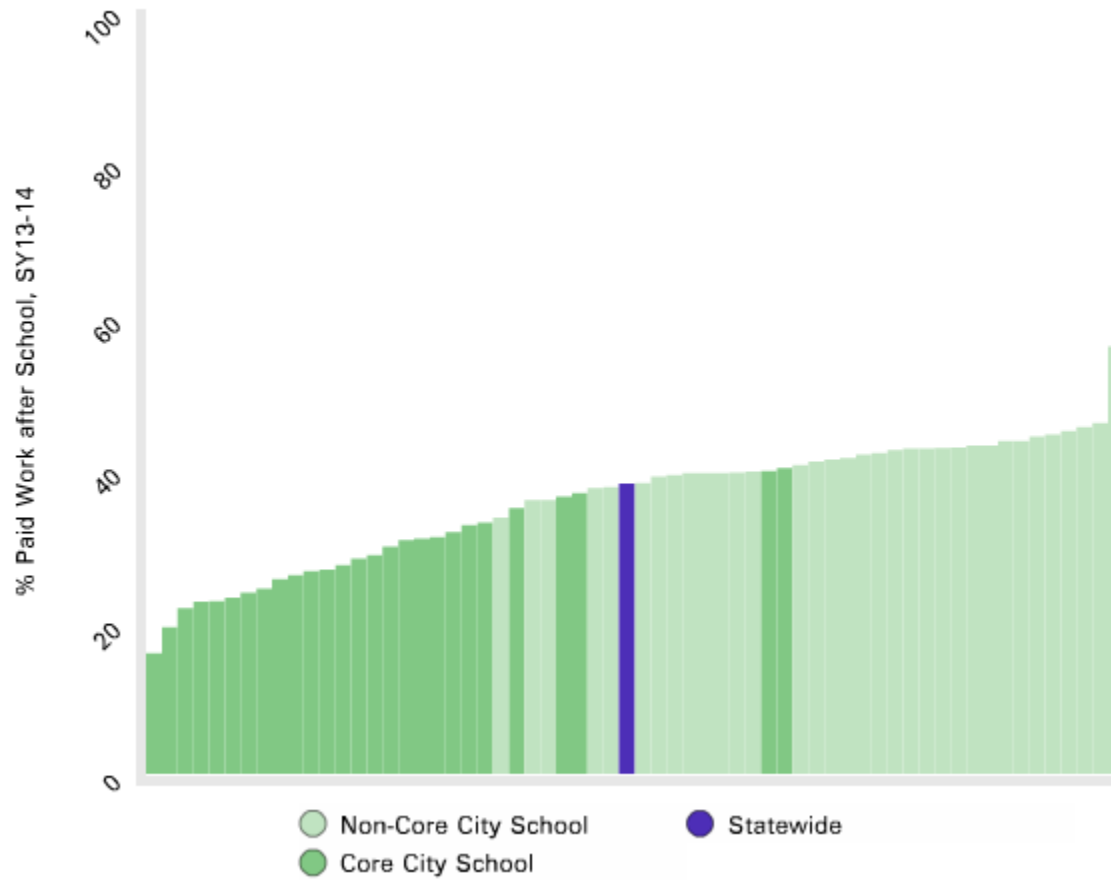
Compare

What are the **groups** within the data? Are the **similar** or **different**?

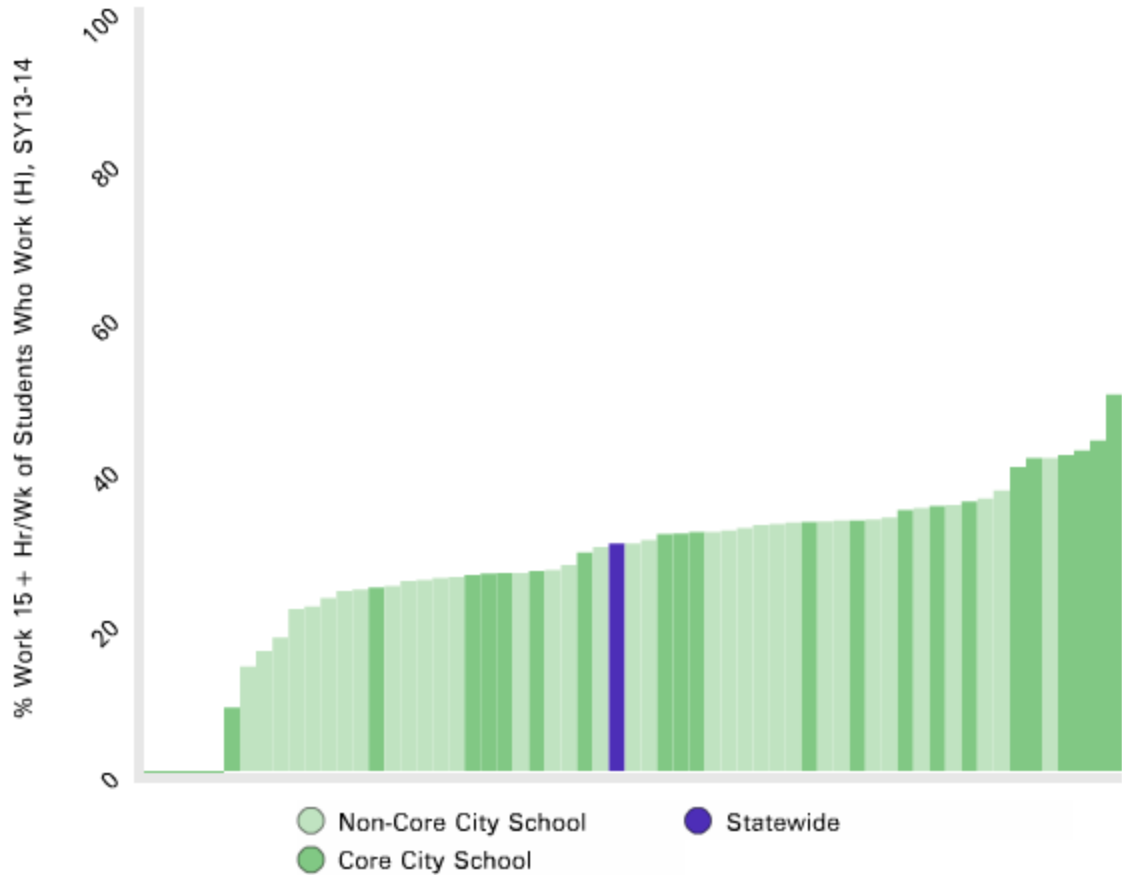
Often **one part** of your data tells one story, but **another part** tells a totally different story.

Or maybe there is a **smaller portion** of your data that serves as an example of an **overall** pattern.

Bar Chart of % Paid Work after School, SY13-14

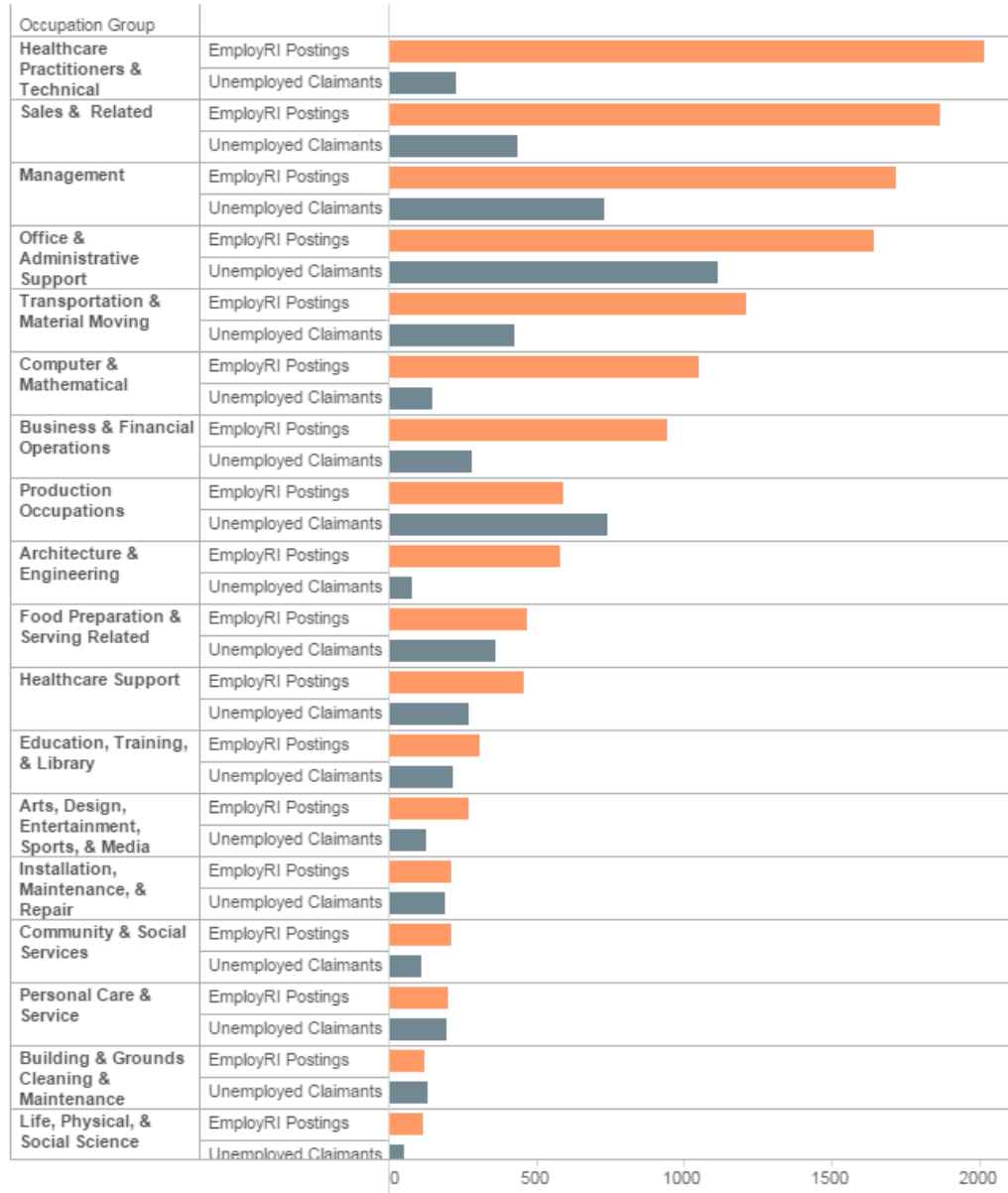


Bar Chart of % Work 15+ Hr/Wk of Students Who Work (H), SY13-14



Labor Supply and Demand

Third Quarter 2014 EmployRI Postings and Unemployment Claimants



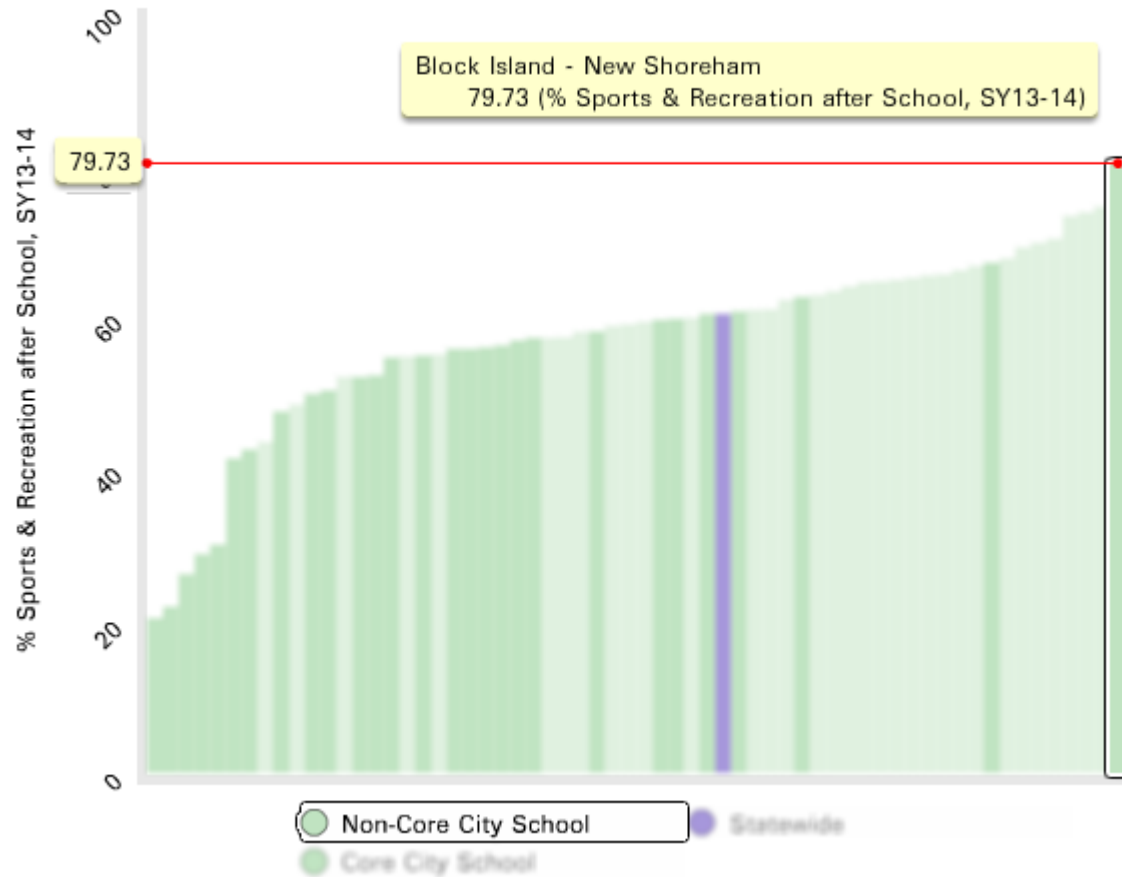
Characteristics

What stands out?

*Is there **one** particular **data point** that stands out and is an interesting **story**.*

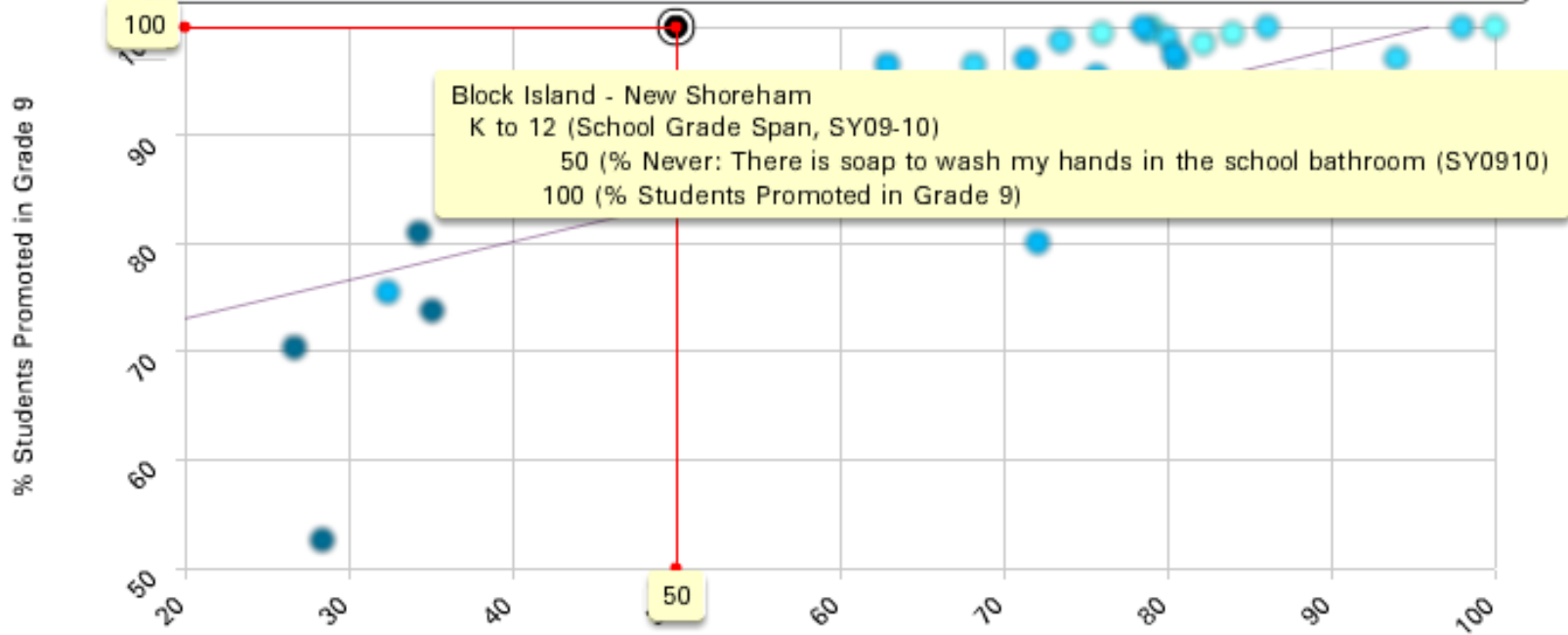
*What is **unique**? What **piece** might have a fascinating story that help you **understand** the data?*

Bar Chart of % Sports & Recreation after School, SY13-14





% Never: There is soap to wash my hands in the school bathroom (SY0910)



$y = 0.3545x + 65.97$
 $R^2 = 0.5038$
1 Records Selected

% Never: There is soap to wash my hands in the school bathroom (SY0910)

