Please note that these data are preliminary and reflect responses submitted by New York State Schools to the best of their ability and knowledge in October 2020 - January 2021. As schools, districts, and communities work to improve digital equity in New York, this information is subject to change.
## SURVEY PARTICIPATION

<table>
<thead>
<tr>
<th></th>
<th>Submitted</th>
<th>%</th>
<th>Not Submitted</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rest of State Public Schools</strong></td>
<td>2,652</td>
<td>99.8%</td>
<td>6</td>
<td>0.2%</td>
</tr>
<tr>
<td><strong>New York City</strong></td>
<td>1,583</td>
<td>100%</td>
<td>0</td>
<td>-</td>
</tr>
<tr>
<td><strong>Big 4</strong></td>
<td>175</td>
<td>100%</td>
<td>0</td>
<td>-</td>
</tr>
<tr>
<td><strong>853, 4201, 4410, and State Operated Schools</strong></td>
<td>236</td>
<td>99.2%</td>
<td>2</td>
<td>0.8%</td>
</tr>
<tr>
<td><strong>Charter Schools</strong></td>
<td>289</td>
<td>88.9%</td>
<td>36</td>
<td>11.1%</td>
</tr>
<tr>
<td><strong>BOCES</strong></td>
<td>37</td>
<td>100%</td>
<td>0</td>
<td>-</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>4,972</td>
<td>99.1%</td>
<td>44</td>
<td>0.9%</td>
</tr>
</tbody>
</table>
STUDENT DEVICE ACCESS
DEFINITIONS

- “Device” is defined as a computer or computing device, such as a laptop, desktop, Chromebook, or full-sized iPad or other tablet, that
  - Is able to connect to the internet (even if an internet connection is not always available); 
  - Has a keyboard (on-screen or external) and a mouse, touchscreen, or touchpad; and 
  - Can run all applications, allowing for full participation in learning.

- “Device,” for the purposes of this survey, is NOT a mobile internet access point, such as a MiFi.

- While many students may participate in learning through a phone, phones (as well as mini-tablets) are not adequate devices for full participation in learning, and schools were advised to not count phones as devices.
TOTAL STUDENT ACCESS TO DEVICES FOR HOME USE

- Students with a device provided by the school or district
- Students with a dedicated device provided by family or guardian
- Students who do not have access to a dedicated computing device
- Enrollment of schools that did not submit a survey

- 585,303, 22%
- 215,948, 8%
- 20,129, 0.7%
- 1,868,908, 69%
STUDENT ACCESS TO DEVICES FOR HOME USE - NYC

- Students with a device provided by the school or district
- Students with a dedicated device provided by family or guardian
- Students who do not have access to a dedicated computing device

New York City

493,652, 55%
280,163, 31%
125,710, 14%

PRELIMINARY REPORT – SUBJECT TO CHANGE
STUDENT ACCESS TO DEVICES FOR HOME USE — BIG 4

- Students with a device provided by the school or district
- Students with a dedicated device provided by family or guardian
- Students who do not have access to a dedicated computing device
STUDENT DEVICE ACCESS - PUBLIC SCHOOLS

- Students with a device provided by the school or district
- Students with a dedicated device provided by family or guardian
- Students who do not have access to a dedicated computing device
DEVICE ACCESS - OTHER SCHOOLS

- Students with a device provided by the school or district
- Students with a dedicated device provided by family or guardian
- Students who do not have access to a dedicated computing device
- Enrollment of schools that did not submit a survey

853, 4201, 4410, and State Operated Schools

- 7,133, 24%
- 9,604, 32%
- 13,169, 44%

Charter Schools

- 17,914, 11%
- 128,335, 77%
- 19,562, 11%
- 1,869, 1%
DEVICE ACCESS BY GRADE LEVEL

- Students with a device provided by the school or district
- Students with a dedicated device provided by family or guardian
- Students who do not have access to a dedicated computing device
DEVICE ACCESS BY GRADE LEVEL - NYC

PRELIMINARY REPORT – SUBJECT TO CHANGE
STUDENTS WITH INSUFFICIENT ACCESS TO DEVICES

PRELIMINARY REPORT – SUBJECT TO CHANGE

125,710

New York City
Buffalo City
Rochester City
Syracuse City
Yonkers City
Rural High Needs
Urban/Suburban/High Needs
Average Needs
Low Needs
853, 4201, 4410, and State Operated Schools
Charter
BOCES

New York City: 125,710
Buffalo City: 1,011
Rochester City: 1,116
Syracuse City: 3,541
Yonkers City: 2,336
Rural High Needs: 4,371
Urban/Suburban/High Needs: 19,548
Average Needs: 39,717
Low Needs: 7,319
853, 4201, 4410, and State Operated Schools: 7,133
Charter: 1,869
BOCES: 2,277
STUDENTS WHO MAY RECEIVE A DEVICE THAT HAS ALREADY BEEN ORDERED

PRELIMINARY REPORT – SUBJECT TO CHANGE
215,948 students (8% of reported enrollment) do not have sufficient access to a device at their home or place of residence.

125,710 of the total number of students without device access are enrolled in public schools in New York City.

39,717 of the total number of students without device access are enrolled in Average Needs public schools.

91,530 of the total number of students without device access attend schools that have indicated that student devices have been ordered but not yet received.
STUDENT INTERNET ACCESS
DEFINITIONS

- Districts and schools were expected to identify whether students had sufficient, reliable, high-speed internet access in their place of residence.
  - “Sufficient” access mean that the student or teacher does not regularly experience issues (slowdowns, buffering, disconnections, unreliable connection, etc.) while participating in required or assigned instruction and learning activities, as measured during peak household usage.
  - Reliability should be judged against the goal of “All the Time” access, as indicated in the National Educational Technology Plan. The Plan states the expectation that technology-enabled learning should be available for all students, everywhere, all the time (NETP 2017).
  - High-speed internet can be accessed through wired devices or WiFi, through residential broadband (E.g., DSL, Cable, Fiber), a cellular network (E.g., Verizon, Sprint, AT&T), a hotspot (E.g., a MiFi), or satellite. Dial-up is not considered high-speed internet.

- Internet provided by the school or district is defined as instances where the school or district has provided a device or service to the individual student or teacher, for use in the student’s or teacher’s individual home or place of residence. This does not include providing WIFI in parking lots, on school busses, in community locations, etc.
Students with internet access provided by family: 371,015, 14%
Students with internet access provided by school: 165,762, 6%
Students with insufficient internet access: 20,129, 0.7%
Not reported: 2,090,021, 79%
STUDENT HOME INTERNET ACCESS - NYC

- Students with internet access provided by family
- Students with internet access provided by school
- Students with insufficient internet access
Buffalo CSD

- Students with internet access provided by family: 3,747 (12%)
- Students with internet access provided by school: 504 (2%)
- Students with insufficient internet access: 26,649 (86%)

Rochester CSD

- Students with internet access provided by family: 9,429 (35%)
- Students with internet access provided by school: 13,253 (49%)
- Students with insufficient internet access: 4,182 (16%)

Syracuse CSD

- Students with internet access provided by family: 13,186 (68%)
- Students with internet access provided by school: 4,684 (24%)
- Students with insufficient internet access: 1,557 (8%)

Yonkers City SD

- Students with internet access provided by family: 1,620 (7%)
- Students with internet access provided by school: 1,780 (7%)
- Students with insufficient internet access: 21,698 (86%)

- Students with internet access provided by family
- Students with internet access provided by school
- Students with insufficient internet access
STUDENT HOME INTERNET ACCESS — REST OF STATE SCHOOLS

- 1,603,224, 92%
- 72,360, 4%
- 51,689, 3%
- 20,129, 0.7%

- Students with internet access provided by family
- Students with internet access provided by school
- Students with insufficient internet access
- Not reported
Students with internet access provided by family
- Students with internet access provided by school
- Students with insufficient internet access
INTERNET ACCESS BY COMMUNITY TYPE

- Students with internet access provided by family
- Students with internet access provided by school
- Students with insufficient internet access
TOTAL NUMBER OF STUDENTS AFFECTED BY TOP BARRIERS

PRELIMINARY REPORT – SUBJECT TO CHANGE

<table>
<thead>
<tr>
<th>Category</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Availability</td>
<td>54,456</td>
</tr>
<tr>
<td>Cost</td>
<td>110,371</td>
</tr>
<tr>
<td>Other</td>
<td>38,311</td>
</tr>
<tr>
<td>Not reported</td>
<td>20,129</td>
</tr>
</tbody>
</table>
## Number of Students Affected by Barriers

<table>
<thead>
<tr>
<th>Category</th>
<th>New York City</th>
<th>Large City (Big 4)</th>
<th>Rural High Needs</th>
<th>Urban/ Suburban/ High Needs</th>
<th>Average Needs</th>
<th>Low Needs</th>
<th>853, 4201, 4410, and State Operated Schools</th>
<th>Charter</th>
<th>BOCES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Availability</td>
<td>48,867</td>
<td>24,980</td>
<td>23,617</td>
<td>15,591</td>
<td>9,821</td>
<td>9,472</td>
<td>6,827</td>
<td>1,085</td>
<td>98</td>
</tr>
<tr>
<td>Cost</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>996, 966</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>772, 966, 7035</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>23,617</td>
<td>24,980</td>
<td>48,867</td>
<td>15,591</td>
<td>9,821</td>
<td>9,472</td>
<td>6,827</td>
<td>1,085</td>
<td>98</td>
</tr>
</tbody>
</table>

*PRELIMINARY REPORT – SUBJECT TO CHANGE*
TOP BARRIER TO RELIABLE INTERNET

New York City Schools
Cost
Large City (Big 4)
Cost
Average Needs Schools
Cost
Urban/Suburban/High Needs Schools
Cost
853, 4201, 4410, State Operated Schools
Cost
Charter Schools
Cost
Rural Schools
Availability
BOCES
Availability
Low Needs Schools
None
165,762 students (6.3%) have insufficient internet access to fully participate in learning in their home or place of residence.

New York City, the Big 4 districts, and rural schools have the most students with insufficient internet access.

Cost is the most reported barrier to students having sufficient internet access at their places of residence, except for rural schools, where the top barrier is availability.
TEACHER DEVICE AND INTERNET ACCESS
NUMBER OF TEACHERS REPORTED TO NOT HAVE ACCESS TO DEVICES OR RELIABLE INTERNET AT THEIR PLACE OF RESIDENCE

- Number of Public School Teachers: 212,926
- Teachers without device access: 4,874
- Teachers without reliable internet access: 3,155
NUMBER OF TEACHERS AFFECTED BY TOP BARRIERS

New York City
Large City (Big 4)
Rural High Needs
Urban/Suburban/High Needs
Average Needs
Low Needs
853, 4201, 4410, and State Operated Schools
Charter
BOCES

Availability | Cost | Other
**SUMMARY**

**TEACHER DEVICE AND INTERNET ACCESS**

4,874 teachers (approximately 2%) do not have access to a device in their home.

3,155 teachers (approximately 1%) do not have sufficient internet access to provide instruction through technology from their home.

Availability is the most reported barrier to teachers having internet access at their places of residence.

Rural schools and average needs schools reported the highest number of teachers without internet access.