Thank you for joining us…the webinar will begin shortly

February 3rd -28th

Connecticut SchoolSpeedTest Month

Using the SchoolSpeedTest to Assess Internet Readiness For Digital Learning

Thursday, January 23rd

The Digital Learning Opportunity

Enhance Teacher Effectiveness & Productivity

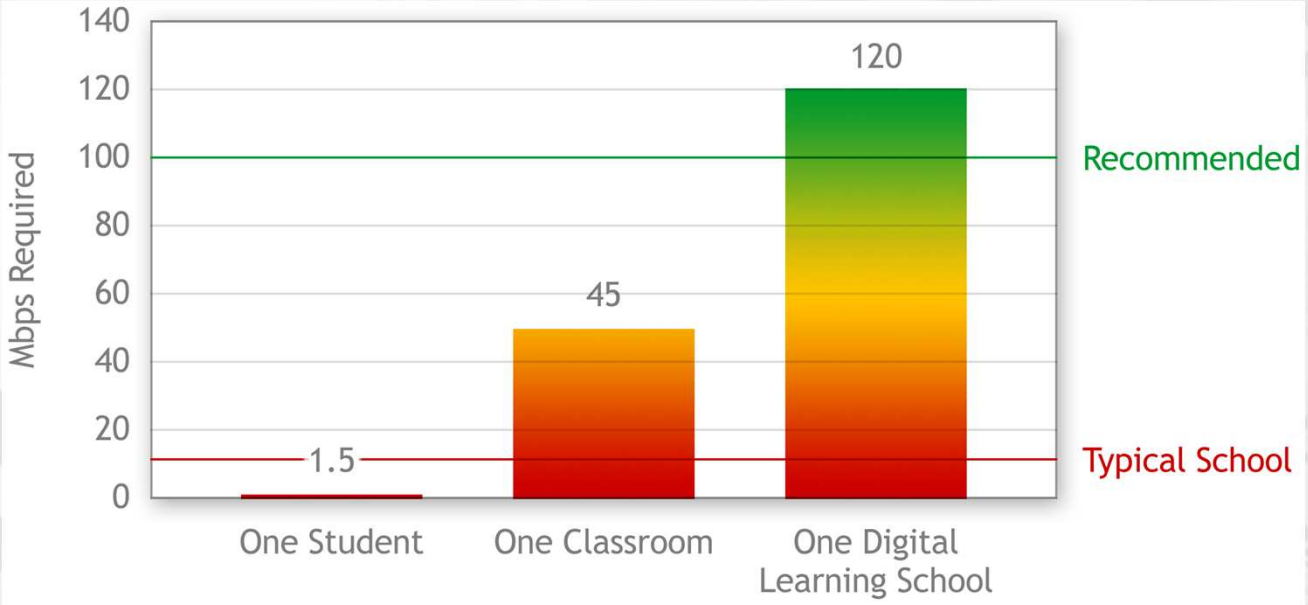
- Potential to differentiate content and personalize learning
- Open up time and space for more 1:1 and small-group teaching
- Reduce administrative time
- Increase opportunities for professional development

Build Equity & Student Engagement

- Bring experts and targeted content into the classroom.
- Enrich collaborative learning.
- Expand learning beyond the classroom.

Digital Learning Demands High Speed Internet

Bandwidth For Streaming Video



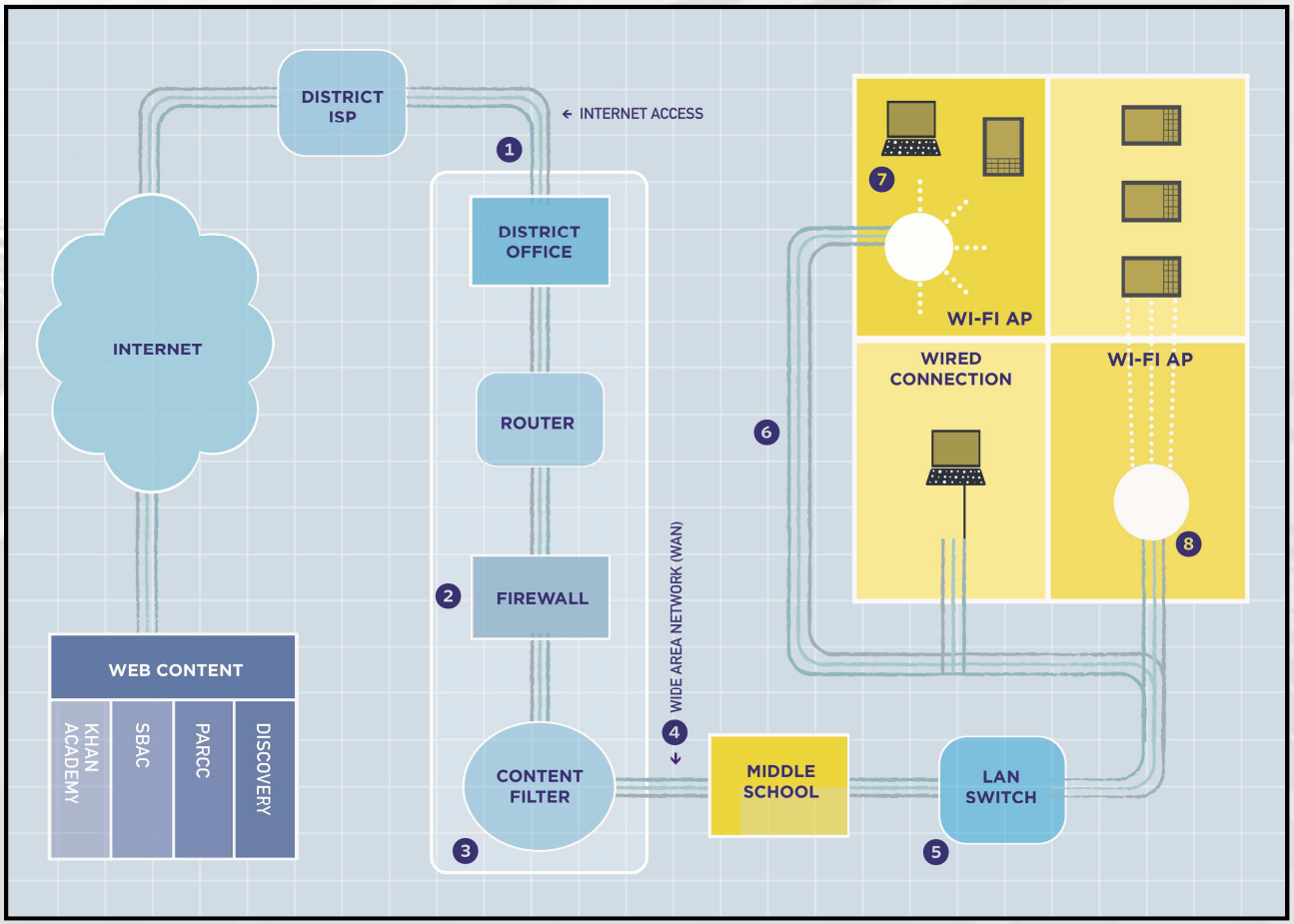
Assessment	Recommendation
State Education Technology Directors Association (SETDA)	*100 kbps/student recommended*

Typical School has 10-15 Mbps

How Much Bandwidth Can You Count On?

Policy makers have little information on bandwidth available ***in the classroom,*** because available speed-to-device varies with:

1. *ISP Connection Size*
2. *Firewalls*
3. *Content Filters*
4. *WAN Connectivity*
5. *Local Area Network*
6. *Wiring*
7. *Wi-Fi Network*
8. *Current Usage*



Need for Performance Data

We need performance data on Internet connectivity speeds in the classroom to meet these basics for learning today.

- Deploy online tools that run reliably at school
- Demonstrate need and build priorities for upgrades
- Prepare schools for 2014-2015 online assessments

Connecticut SchoolSpeedTest Month

Test Dates: February 3rd-28th

Our Goal

Measure connectivity speed at every K-12 school in Connecticut.

Create an apple-to-apples state wide inventory of Internet connections for planning + advocacy.

Test Your School In Less Than a Minute

Anyone connected to school's wired/Wi-Fi network can run the test.

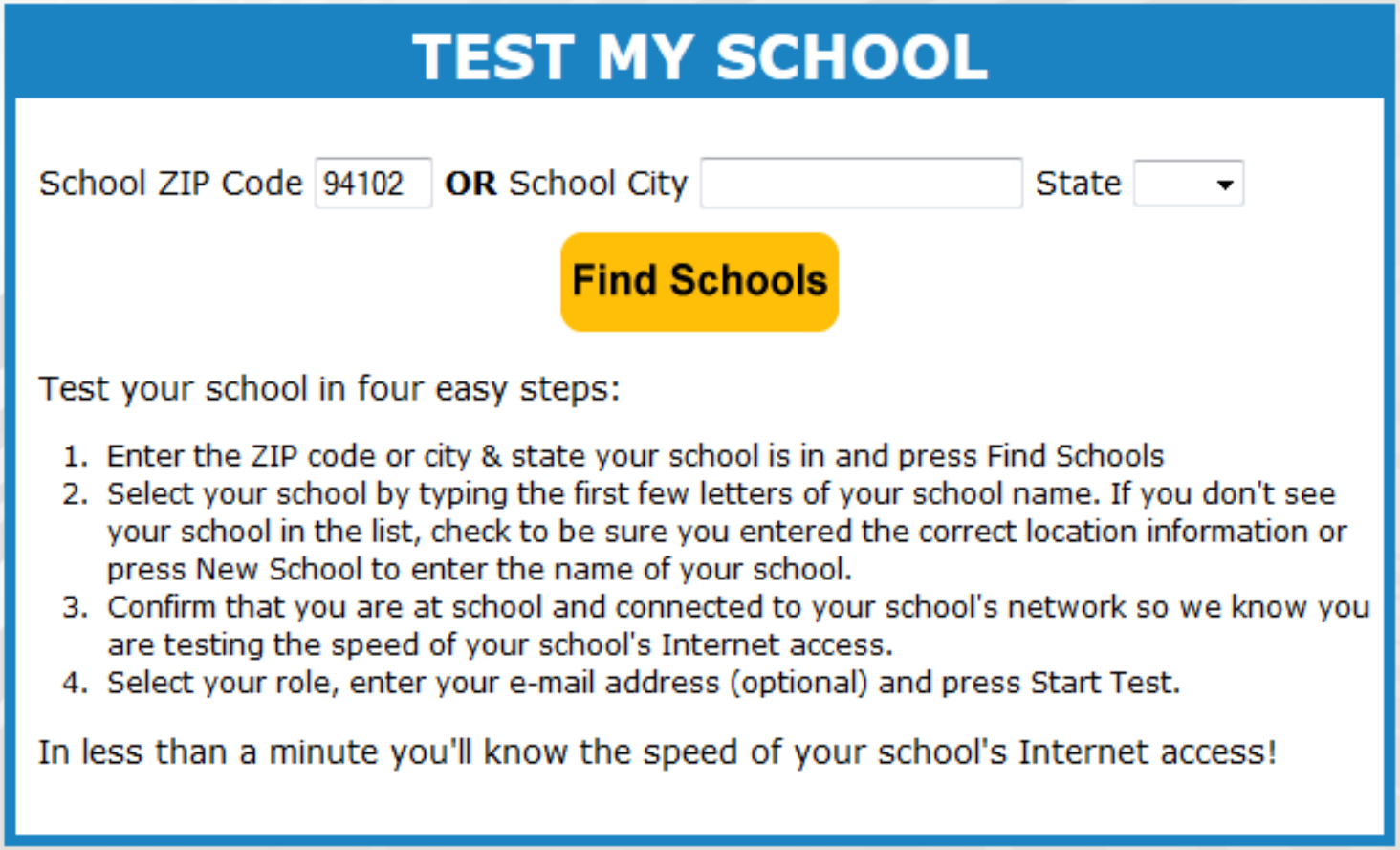
- Teachers, students, tech coordinators, classified staff

Goal: Get 10 staff members to take 1 minute to run the test

- Run at least 10 tests at every school site
- Test at different times of the day and days of the week.
- Results will vary depending on network activity
- More tests = more accurate measure of available Internet

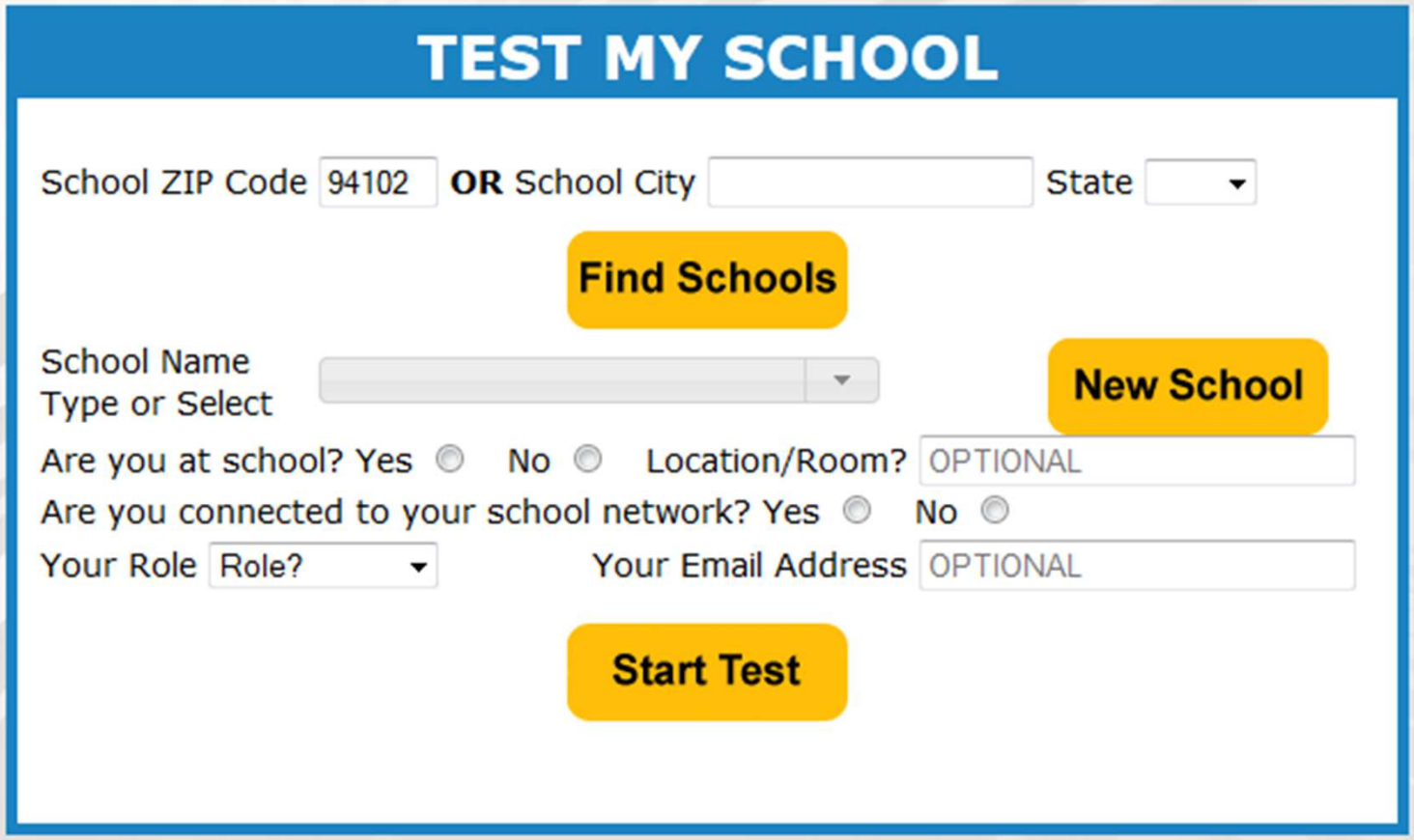
Testing a School: Step 1

Go to http://partners.schoolspeedtest.org/connecticut.html
Enter the zip code or city/state of your school.



Testing a School: Step 2

Select your school from the drop down list, then confirm you are on the school network.



SchoolSpeedTest Operation

- Operates over HTTP (any browser capable device)
- Tests ping (latency), upload/s, filtering on specific sites, device support for Java and Flash
- Collects the tester's IP address, OS, and browser type
- Validates tester's U.S. location
- Checks JavaScript and Flash—enabled or not

SchoolSpeedTest Operation

1. Transfer test runs in the background—downloads small binary files that estimate the connection speed.
2. Based on this data, the browser-based test engine determines which file size to use for the test and selects one that can download in 15 seconds. Stores the files in multiple locations.
3. JavaScript running in the browser downloads these files.
4. Test engine records the download time. Test engine calculates download speed.
5. Upload speed test launches and sends the data through an http post.
6. Test engine pings specific sites, and tests the user's browser for Java and Flash support.

SchoolSpeedTest Reporting

The Data

- Upload and download speed of your school Internet connection in the classroom at different times during the school day
- Browser type and operating system each tester used

Results

Testers: upload & download speeds

District: online access to raw data and graphs of tests

State: raw data + graphs of tests in state; state summary

Results & Reports

Tester Gets First Results

Tester gets immediate feedback: upload/download speed

Reports Aggregate District, State, & National Data

- All test data records to the EducationSuperHighway database.
- Reports and raw data detail *available bandwidth* — maximum, minimum and average — during school hours
- ESH analyzes the data to produce state and national reporting

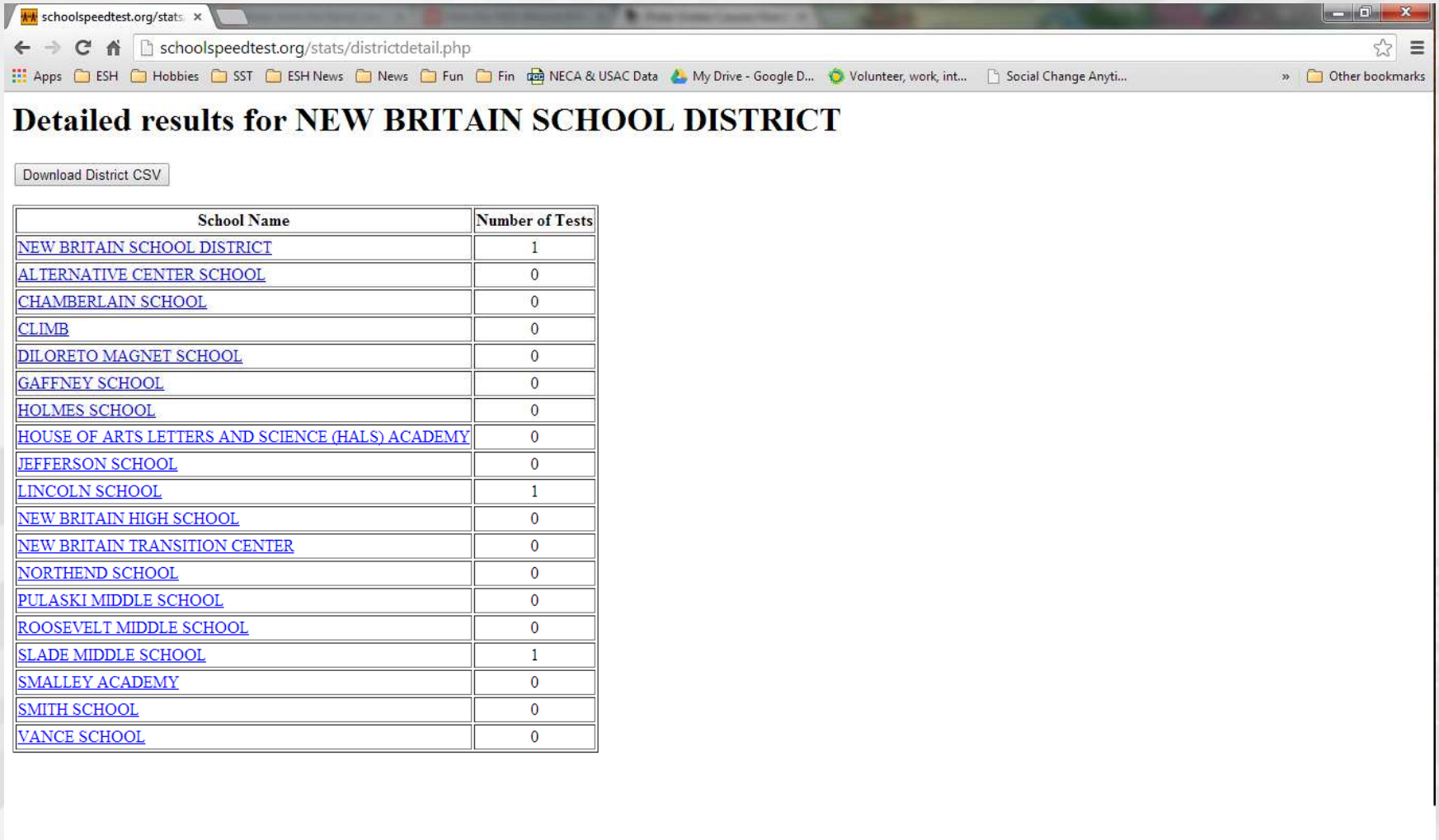
To View Your District Data Online

Go to:

http://www.schoolspeedtest.org/stats/district.html

1. Select **Connecticut**
2. Select your **District name**
3. Enter this password – **haifiduk**

Online Reporting

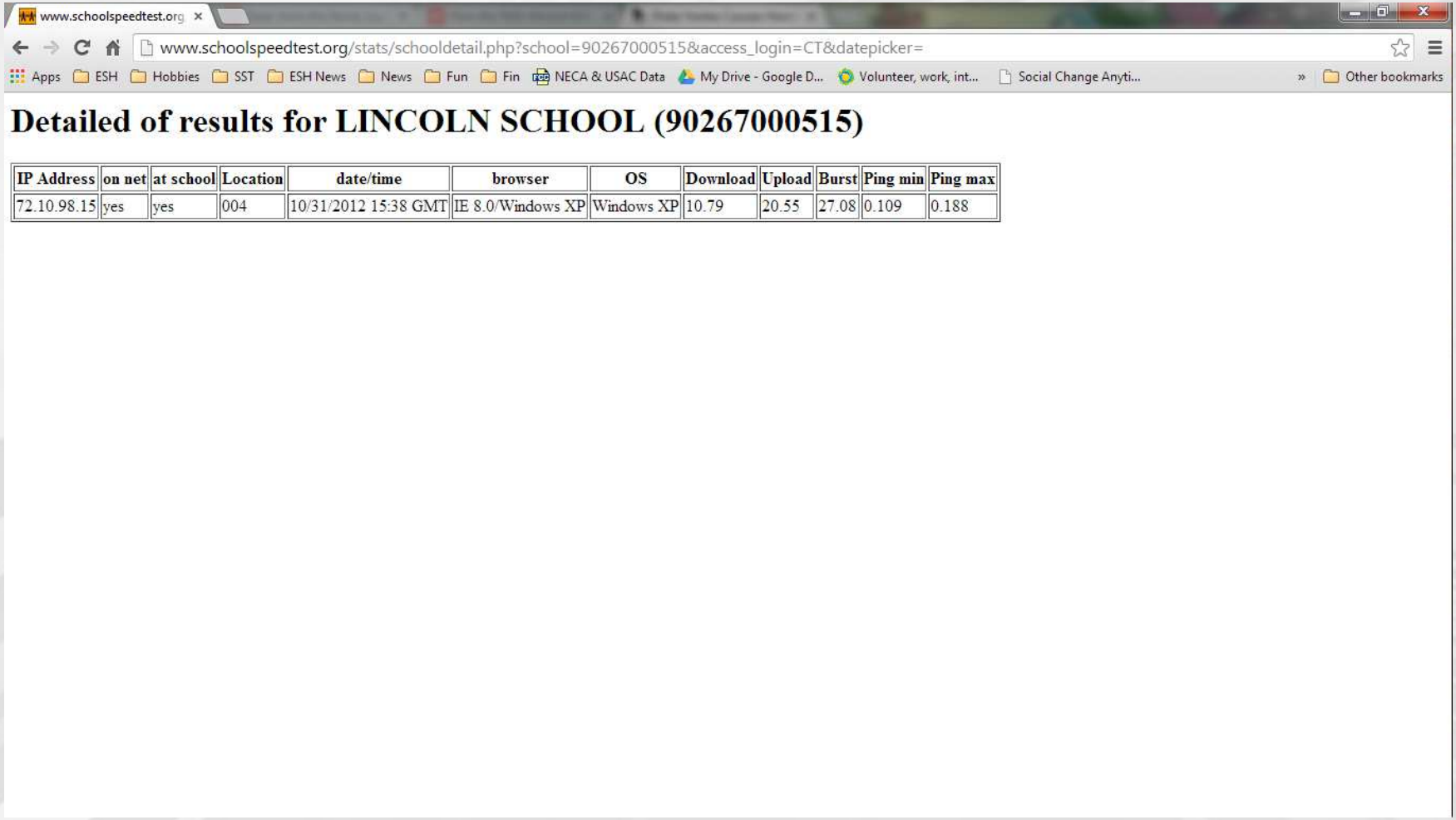


Detailed results for NEW BRITAIN SCHOOL DISTRICT

Download District CSV

School Name	Number of Tests
NEW BRITAIN SCHOOL DISTRICT	1
ALTERNATIVE CENTER SCHOOL	0
CHAMBERLAIN SCHOOL	0
CLIMB	0
DILORETO MAGNET SCHOOL	0
GAFFNEY SCHOOL	0
HOLMES SCHOOL	0
HOUSE OF ARTS LETTERS AND SCIENCE (HALS) ACADEMY	0
JEFFERSON SCHOOL	0
LINCOLN SCHOOL	1
NEW BRITAIN HIGH SCHOOL	0
NEW BRITAIN TRANSITION CENTER	0
NORTHEND SCHOOL	0
PULASKI MIDDLE SCHOOL	0
ROOSEVELT MIDDLE SCHOOL	0
SLADE MIDDLE SCHOOL	1
SMALLEY ACADEMY	0
SMITH SCHOOL	0
VANCE SCHOOL	0

Online Reporting



Detailed of results for LINCOLN SCHOOL (90267000515)

IP Address	on net	at school	Location	date/time	browser	OS	Download	Upload	Burst	Ping min	Ping max
72.10.98.15	yes	yes	004	10/31/2012 15:38 GMT	IE 8.0/Windows XP	Windows XP	10.79	20.55	27.08	0.109	0.188

Online Reporting

How to Use Your Data

- **Compare your SchoolSpeedTest results** to expected device speeds to identify bottlenecks.

- **Make the case for more investment** in broadband and network infrastructure in your district and across Connecticut.

Connecticut SchoolSpeedTest

How to Get Ready:

- Whitelist www.SchoolSpeedTest.org in your content filter
- Talk to other district leaders about the Connecticut SchoolSpeedTest
- Forward launch emails and follow up with school leaders to get the best testing data for your district

Contact & More Information

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EducationSuperHighway: **www.EducationSuperHighway.org**
SchoolSpeedTest: **www.SchoolSpeedTest.org**

Watch the Video:
http://www.educationsuperhighway.org/learn-more.html