# Initial Tables From the 2015 Computer Access and Familiarity Study 

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Table 1. Percentage of 4th-, 8th-, and 12th-grade public school students with their own or a shared digital device at home, by selected student and school characteristics: 2015

| Selected student or school characteristic | 4th graders |  | 8th graders |  | 12th graders |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Estimate | SE | Estimate | SE | Estimate | SE |
| Total | 95.0 | 0.33 | 98.3 | 0.18 | 98.0 | 0.20 |
| Sex |  |  |  |  |  |  |
| Male | 94.2 | 0.51 | 98.0 | 0.27 | 97.8 | 0.30 |
| Female | 95.9 | 0.43 | 98.7 | 0.23 | 98.3 | 0.27 |
| Race/ethnicity |  |  |  |  |  |  |
| White | 96.5 | 0.43 | 98.8 | 0.22 | 98.6 | 0.25 |
| Black | 93.1 | 0.84 | 98.0 | 0.46 | 96.7 | 0.56 |
| Hispanic | 93.6 | 0.72 | 97.9 | 0.37 | 98.1 | 0.41 |
| Asian | 99.0 | 0.72 | 99.3 | 0.52 | 98.4 | 0.79 |
| Pacific Islander | $\ddagger$ | $\dagger$ | $\ddagger$ | $\dagger$ | 95.5 | 1.96 |
| American Indian/Alaska Native | $\ddagger$ | $\dagger$ | $\ddagger$ | $\dagger$ | $\ddagger$ | $\dagger$ |
| Two or more races | 93.0 | 2.38 | 95.4 | 1.83 | 99.1 | 0.87 |
| English language learner (ELL) status |  |  |  |  |  |  |
| ELL | 90.8 | 1.34 | 97.0 | 0.90 | 96.3 | 1.48 |
| Non-ELL | 95.6 | 0.34 | 98.4 | 0.18 | 98.1 | 0.20 |
| Disability status $\backslash 1 \backslash$ |  |  |  |  |  |  |
| Identified as student with disability (SD) | 91.8 | 1.28 | 95.9 | 0.85 | 97.4 | 0.81 |
| Not identified as SD | 95.4 | 0.34 | 98.6 | 0.17 | 98.1 | 0.21 |
| Eligibility for free or reduced-price lunch |  |  |  |  |  |  |
| Eligible | 93.0 | 0.51 | 97.7 | 0.27 | 97.4 | 0.35 |
| Not eligible | 97.8 | 0.36 | 99.1 | 0.20 | 98.5 | 0.23 |
| Information not available | $\ddagger$ | $\dagger$ | 98.1 | 1.32 | $\ddagger$ | $\dagger$ |
| School locale |  |  |  |  |  |  |
| City | 93.9 | 0.66 | 97.8 | 0.39 | 97.9 | 0.33 |
| Suburb | 95.8 | 0.48 | 98.4 | 0.26 | 98.2 | 0.32 |
| Town | 94.3 | 1.11 | 98.1 | 0.60 | 97.6 | 0.96 |
| Rural | 95.6 | 0.75 | 98.9 | 0.32 | 98.1 | 0.47 |

$\dagger$ Not applicable.
$\ddagger$ Reporting standards not met (too few cases for a reliable estimate).
11\The SD variable used in this table includes students who have a 504 plan, even if they do not have an individualized education program.
NOTE: SE=standard error. Digital devices include desktop computers, laptop computers, tablets, and smartphones. Race categories exclude persons of Hispanic ethnicity.

Table 2a. Percentage distribution of 4th-grade public school students, by when student first used a laptop or desktop computer and selected student and school characteristics: 2015

| Selected student or school characteristic | 4th graders, by first use of computer |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In kindergarten or before |  | In 1st, 2nd, or 3rd grade |  | In 4th grade |  |  | Never used |  | In kindergarten or before |  |
|  | Estimate | SE | Estimate | SE | Estimate |  | SE | Estimate | SE | Estimate | SE |
| Total | 41.1 | 0.77 | 44.0 | 0.77 | 10.6 |  | 0.48 | 4.3 | 0.31 | 34.8 | 0.66 |
| Sex |  |  |  |  |  |  |  |  |  |  |  |
| Male | 39.4 | 1.07 | 44.8 | 1.09 | 10.7 |  | 0.68 | 5.0 | 0.48 | 32.6 | 0.90 |
| Female | 42.8 | 1.09 | 43.1 | 1.09 | 10.5 |  | 0.68 | 3.5 | 0.41 | 37.2 | 0.97 |
| Race/ethnicity |  |  |  |  |  |  |  |  |  |  |  |
| White | 46.0 | 1.17 | 43.7 | 1.16 | 7.8 |  | 0.63 | 2.5 | 0.37 | 40.0 | 1.01 |
| Black | 40.4 | 1.67 | 39.1 | 1.66 | 14.1 |  | 1.18 | 6.5 | 0.83 | 34.8 | 1.57 |
| Hispanic | 33.2 | 1.41 | 46.7 | 1.49 | 13.8 |  | 1.03 | 6.3 | 0.73 | 27.3 | 1.15 |
| Asian | 41.3 | 3.53 | 50.5 | 3.58 | 6.6 |  | 1.78 | $\ddagger$ | $\dagger$ | 31.1 | 2.82 |
| Pacific Islander | $\ddagger$ | $\dagger$ | $\ddagger$ | $\dagger$ | $\ddagger$ |  | $\dagger$ | $\ddagger$ | $\dagger$ | $\ddagger$ | $\dagger$ |
| American Indian/Alaska Native | $\ddagger$ | $\dagger$ | $\ddagger$ | $\dagger$ | $\ddagger$ |  | $\dagger$ | $\ddagger$ | $\dagger$ | $\ddagger$ | $\dagger$ |
| Two or more races | 43.4 | 4.68 | 49.6 | 4.72 | 5.3 | $!$ | 2.12 | $\ddagger$ | $\dagger$ | 35.9 | 4.26 |
| English language learner (ELL) status |  |  |  |  |  |  |  |  |  |  |  |
| ELL | 31.0 | 2.17 | 41.3 | 2.31 | 17.4 |  | 1.78 | 10.3 | 1.43 | 18.0 | 2.04 |
| Non-ELL | 42.4 | 0.81 | 44.3 | 0.82 | 9.8 |  | 0.49 | 3.5 | 0.30 | 36.1 | 0.69 |
| Disability status $\backslash 1 \backslash$ |  |  |  |  |  |  |  |  |  |  |  |
| Identified as student with disability (SD) | 35.6 | 2.27 | 38.5 | 2.30 | 18.3 |  | 1.83 | 7.6 | 1.26 | 29.1 | 1.97 |
| Not identified as SD | 41.8 | 0.81 | 44.7 | 0.82 | 9.7 |  | 0.49 | 3.9 | 0.32 | 35.5 | 0.70 |
| Eligibility for free or reduced-price lunch |  |  |  |  |  |  |  |  |  |  |  |
| Eligible | 36.5 | 0.98 | 44.6 | 1.01 | 13.1 |  | 0.69 | 5.7 | 0.47 | 30.5 | 0.85 |
| Not eligible | 47.7 | 1.21 | 43.2 | 1.20 | 7.0 |  | 0.62 | 2.2 | 0.36 | 40.8 | 1.05 |
| Information not available | $\ddagger$ | $\dagger$ | $\ddagger$ | $\dagger$ | $\ddagger$ |  | $\dagger$ | $\ddagger$ | $\dagger$ | 31.4 | 4.55 |
| School locale |  |  |  |  |  |  |  |  |  |  |  |
| City | 36.9 | 1.34 | 44.7 | 1.38 | 13.2 |  | 0.94 | 5.3 | 0.62 | 32.1 | 1.25 |
| Suburb | 45.6 | 1.22 | 41.9 | 1.21 | 8.8 |  | 0.69 | 3.7 | 0.46 | 36.8 | 1.02 |
| Town | 35.3 | 2.31 | 48.8 | 2.41 | 12.1 |  | 1.57 | 3.7 | 0.91 | 35.3 | 2.10 |
| Rural | 41.8 | 1.81 | 44.7 | 1.83 | 9.3 |  | 1.07 | 4.2 | 0.74 | 33.9 | 1.47 |

$\dagger$ Not applicable.
! Interpret data with caution. The coefficient of variation (CV) for this estimate is between 30 and 50 percent
$\ddagger$ Reporting standards not met. Either there are too few cases for a reliable estimate or the CV is 50 percent or greater.
11\The SD variable used in this table includes students who have a 504 plan, even if they do not have an individualized education program.
NOTE: SE=standard error. Race categories exclude persons of Hispanic ethnicity. Detail may not sum to totals because of rounding.

Table 2b. Percentage distribution of 8th-grade public school students, by when student first used a laptop or desktop computer and selected student and school characteristics: 2015

| Selected student or school characteristic | 8th graders, by first use of computer |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In 1st, 2nd, or 3rd grade |  | In 4th or 5th grade |  | In 6th, 7 th, or 8th grade |  |  | Never used |  |  | In kindergarten or before |  |
|  | Estimate | SE | Estimate | SE | Estimate |  | SE | Estimate |  | SE | Estimate | SE |
| Total | 41.7 | 0.68 | 15.8 | 0.51 | 7.0 |  | 0.35 | 0.7 |  | 0.11 | 28.9 | 0.66 |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 42.6 | 0.95 | 16.7 | 0.72 | 7.2 |  | 0.50 | 1.0 |  | 0.19 | 29.3 | 0.94 |
| Female | 40.7 | 0.98 | 15.0 | 0.71 | 6.8 |  | 0.50 | 0.3 | ! | 0.11 | 28.6 | 0.94 |
| Race/ethnicity 0 |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 40.7 | 1.01 | 13.1 | 0.70 | 5.7 |  | 0.48 | 0.5 | ! | 0.14 | 33.6 | 1.02 |
| Black | 41.0 | 1.62 | 14.2 | 1.15 | 8.8 |  | 0.93 | 1.3 |  | 0.37 | 28.6 | 1.44 |
| Hispanic | 43.2 | 1.28 | 20.7 | 1.05 | 8.3 |  | 0.71 | 0.5 | ! | 0.19 | 20.4 | 1.22 |
| Asian | 45.6 | 3.04 | 18.1 | 2.35 | 5.2 |  | 1.35 | \# |  | $\dagger$ | 26.9 | 2.82 |
| Pacific Islander | $\ddagger$ | $\dagger$ | $\ddagger$ | $\dagger$ | $\ddagger$ |  | $\dagger$ | $\ddagger$ |  | $\dagger$ | 21.6 | 3.93 |
| American Indian/Alaska Native | $\ddagger$ | $\dagger$ | $\ddagger$ | $\dagger$ | $\ddagger$ |  | $\dagger$ | $\ddagger$ |  | $\dagger$ | $\ddagger$ | $\dagger$ |
| Two or more races | 41.4 | 4.37 | 14.8 | 3.15 | 6.3 | ! | 2.15 | $\ddagger$ |  | $\dagger$ | 37.2 | 4.57 |
| English language learner (ELL) status |  |  |  |  |  |  |  |  |  |  |  |  |
| ELL | 41.0 | 2.61 | 27.8 | 2.38 | 11.8 |  | 1.71 | 1.4 | ! | 0.62 | 12.3 | 2.58 |
| Non-ELL | 41.7 | 0.71 | 15.0 | 0.51 | 6.6 |  | 0.36 | 0.6 |  | 0.11 | 29.5 | 0.68 |
| Disability status 1 \ |  |  |  |  |  |  |  |  |  |  |  |  |
| Identified as student with disability (SD) | 36.2 | 2.09 | 19.2 | 1.71 | 13.0 |  | 1.46 | 2.5 |  | 0.67 | 26.1 | 2.25 |
| Not identified as SD | 42.3 | 0.72 | 15.5 | 0.53 | 6.3 |  | 0.36 | 0.4 |  | 0.10 | 29.2 | 0.69 |
| Eligibility for free or reduced-price lunch |  |  |  |  |  |  |  |  |  |  |  |  |
| Eligible | 42.2 | 0.91 | 17.7 | 0.71 | 8.5 |  | 0.52 | 1.0 |  | 0.18 | 22.2 | 0.92 |
| Not eligible | 40.5 | 1.05 | 13.4 | 0.73 | 5.1 |  | 0.47 | 0.2 | ! | 0.10 | 34.2 | 0.93 |
| Information not available | 50.5 | 4.90 | 14.3 | 3.43 | 3.8 | ! | 1.88 | \# |  | $\dagger$ | $\ddagger$ | $\dagger$ |
| School locale 0 |  |  |  |  |  |  |  |  |  |  |  |  |
| City | 42.9 | 1.33 | 17.1 | 1.01 | 7.2 |  | 0.69 | 0.7 | ! | 0.23 | 28.4 | 1.06 |
| Suburb | 41.1 | 1.04 | 14.3 | 0.74 | 7.0 |  | 0.54 | 0.8 |  | 0.19 | 28.1 | 1.07 |
| Town | 39.3 | 2.15 | 19.1 | 1.73 | 6.2 |  | 1.06 | $\ddagger$ |  | $\dagger$ | 32.1 | 2.95 |
| Rural | 42.6 | 1.54 | 16.1 | 1.14 | 7.0 |  | 0.79 | 0.5 | $!$ | 0.22 | 31.0 | 1.58 |

## $\dagger$ Not applicable. <br> \#Rounds to zero.

! Interpret data with caution. The coefficient of variation (CV) for this estimate is between 30 and 50 percent.
$\ddagger$ Reporting standards not met. Either there are too few cases for a reliable estimate or the CV is 50 percent or greater.
11TThe SD variable used in this table includes students who have a 504 plan, even if they do not have an individualized education program.
NOTE: SE=standard error. Race categories exclude persons of Hispanic ethnicity. Detail may not sum to totals because of rounding.

Table 2c. Percentage distribution of 12th-grade public school students, by when student first used a laptop or desktop computer and selected student and school characteristics: 2015

| Selected student or school characteristic | 12th graders, by first use of computer |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In 1st, 2nd, or 3rd grade |  | In 4th or 5th grade |  | In 6th, 7th, or 8th grade |  | In high school |  |  | Never used |  |  |
|  | Estimate | SE | Estimate | SE | Estimate | SE | Estimate |  | SE | Estimate |  | SE |
| Total | 35.1 | 0.70 | 17.0 | 0.55 | 15.0 | 0.52 | 3.5 |  | 0.27 | 0.5 |  | 0.10 |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 35.2 | 0.98 | 17.0 | 0.77 | 14.1 | 0.72 | 3.8 |  | 0.39 | 0.7 |  | 0.17 |
| Female | 35.0 | 0.99 | 16.9 | 0.78 | 16.0 | 0.76 | 3.2 |  | 0.37 | 0.3 | ! | 0.11 |
| Race/ethnicity |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 34.3 | 1.03 | 16.2 | 0.80 | 12.7 | 0.72 | 2.8 |  | 0.36 | 0.4 | ! | 0.14 |
| Black | 35.9 | 1.53 | 15.7 | 1.16 | 15.7 | 1.16 | 3.4 |  | 0.58 | 0.7 | ! | 0.27 |
| Hispanic | 36.0 | 1.46 | 20.5 | 1.22 | 18.0 | 1.17 | 4.4 |  | 0.62 | 0.6 | ! | 0.24 |
| Asian | 35.7 | 3.04 | 12.4 | 2.10 | 19.3 | 2.50 | 5.2 |  | 1.41 | $\ddagger$ |  | $\dagger$ |
| Pacific Islander | 34.2 | 4.52 | 18.9 | 3.73 | 18.0 | 3.66 | 7.2 | ! | 2.47 | \# |  | $\dagger$ |
| American Indian/Alaska Native | $\ddagger$ | $\dagger$ | $\ddagger$ | $\dagger$ | $\ddagger$ | $\dagger$ | $\ddagger$ |  | $\dagger$ | $\ddagger$ |  | $\dagger$ |
| Two or more races | 33.6 | 4.46 | 16.8 | 3.53 | 11.5 | 3.01 | $\ddagger$ |  | $\dagger$ | \# |  | $\dagger$ |
| English language learner (ELL) status |  |  |  |  |  |  |  |  |  |  |  |  |
| ELL | 23.9 | 3.35 | 21.5 | 3.23 | 29.4 | 3.58 | 9.8 |  | 2.34 | 3.1 | ! | 1.35 |
| Non-ELL | 35.5 | 0.71 | 16.8 | 0.56 | 14.5 | 0.52 | 3.3 |  | 0.26 | 0.4 |  | 0.10 |
| Disability status $11 \backslash 10.0$ |  |  |  |  |  |  |  |  |  |  |  |  |
| Identified as student with disability (SD) | 27.6 | 2.30 | 20.3 | 2.06 | 18.7 | 2.00 | 6.8 |  | 1.30 | $\ddagger$ |  | $\dagger$ |
| Not identified as SD | 35.7 | 0.73 | 16.7 | 0.57 | 14.7 | 0.54 | 3.2 |  | 0.27 | 0.5 |  | 0.11 |
| Eligibility for free or reduced-price lunch |  |  |  |  |  |  |  |  |  |  |  |  |
| Eligible | 36.3 | 1.06 | 18.4 | 0.86 | 18.1 | 0.85 | 4.1 |  | 0.44 | 0.8 |  | 0.20 |
| Not eligible | 34.1 | 0.93 | 15.8 | 0.72 | 12.7 | 0.65 | 3.0 |  | 0.33 | 0.3 | ! | 0.10 |
| Information not available | $\ddagger$ | $\dagger$ | $\ddagger$ | $\dagger$ | $\ddagger$ | $\dagger$ | $\ddagger$ |  | $\dagger$ | $\ddagger$ |  | $\dagger$ |
| School locale $\ddagger$ |  |  |  |  |  |  |  |  |  |  |  |  |
| City | 34.6 | 1.12 | 17.2 | 0.89 | 15.5 | 0.85 | 3.7 |  | 0.45 | 0.6 | ! | 0.18 |
| Suburb | 35.9 | 1.14 | 17.1 | 0.90 | 15.6 | 0.86 | 3.1 |  | 0.41 | 0.3 | ! | 0.14 |
| Town | 30.6 | 2.91 | 14.3 | 2.21 | 17.9 | 2.42 | 5.2 |  | 1.40 | \# |  | $\dagger$ |
| Rural | 35.7 | 1.64 | 16.9 | 1.28 | 12.1 | 1.11 | 3.5 |  | 0.63 | 0.8 | ! | 0.31 |

[^0]Table 3. Percentage distribution of 8th-grade public school students, by number of hours they spend using a laptop or desktop computer for schoolwork on a weekday and selected student and school characteristics: 2015

| Selected student or school characteristic | None |  | Less than 1 hour |  | 1 to 2 hours |  | 2 to 3 hours |  | More than 3 hours |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Estimate | SE | Estimate | SE | Estimate | SE | Estimate | SE | Estimate | SE |
| Total | 19.9 | 0.55 | 28.6 | 0.63 | 29.0 | 0.63 | 11.0 | 0.43 | 11.5 | 0.44 |
| Sex |  |  |  |  |  |  |  |  |  |  |
| Male | 21.4 | 0.79 | 28.3 | 0.87 | 28.4 | 0.87 | 10.5 | 0.59 | 11.4 | 0.61 |
| Female | 18.3 | 0.77 | 29.0 | 0.91 | 29.6 | 0.91 | 11.4 | 0.63 | 11.6 | 0.64 |
| Race/ethnicity |  |  |  |  |  |  |  |  |  |  |
| White | 18.0 | 0.79 | 34.1 | 0.98 | 28.8 | 0.93 | 9.1 | 0.59 | 9.9 | 0.62 |
| Black | 21.6 | 1.35 | 22.2 | 1.36 | 27.3 | 1.46 | 12.8 | 1.10 | 16.1 | 1.21 |
| Hispanic | 23.8 | 1.10 | 24.2 | 1.11 | 29.9 | 1.18 | 11.7 | 0.83 | 10.4 | 0.79 |
| Asian | 10.8 | 1.89 | 26.8 | 2.70 | 32.3 | 2.86 | 16.4 | 2.26 | 13.8 | 2.10 |
| Pacific Islander | $\ddagger$ | $\dagger$ | $\ddagger$ | $\dagger$ | $\ddagger$ | $\dagger$ | $\ddagger$ | $\dagger$ | $\ddagger$ | $\dagger$ |
| American Indian/Alaska Native | $\ddagger$ | $\dagger$ | $\ddagger$ | $\dagger$ | $\ddagger$ | $\dagger$ | $\ddagger$ | $\dagger$ | $\ddagger$ | $\dagger$ |
| Two or more races | 16.3 | 3.26 | 29.5 | 4.03 | 27.9 | 3.96 | 13.2 | 2.99 | 13.2 | 2.99 |
| English language learner (ELL) status |  |  |  |  |  |  |  |  |  |  |
| ELL | 23.2 | 2.24 | 22.7 | 2.22 | 27.7 | 2.37 | 13.4 | 1.81 | 12.9 | 1.78 |
| Non-ELL | 19.7 | 0.57 | 29.1 | 0.65 | 29.1 | 0.65 | 10.8 | 0.45 | 11.4 | 0.46 |
| Disability status $\backslash 1 \backslash$ Identified as student with disability (SD) | 25.4 | 1.88 | 25.6 | 1.89 | 24.4 | 1.86 | 12.7 | 1.44 | 11.9 | 1.40 |
| Not identified as SD | 19.3 | 0.58 | 29.0 | 0.66 | 29.5 | 0.67 | 10.8 | 0.45 | 11.4 | 0.47 |
| Eligibility for free or reduced-price lunch |  |  |  |  |  |  |  |  |  |  |
| Eligible | 24.5 13.6 | 0.79 0.74 | 23.9 34.4 | 0.79 1.02 | 28.4 30.1 | 0.83 0.98 | 11.3 10.9 | 0.58 0.67 | 12.0 11.0 | 0.60 0.67 |
| Information not available | 22.6 | 4.08 | 42.5 | 4.82 | 24.5 | 4.20 | 3.8 | 1.86 | 6.6 | 2.42 |
| School locale |  |  |  |  |  |  |  |  |  |  |
| City | 22.3 | 1.12 | 25.9 | 1.18 | 29.5 | 1.22 | 11.0 | 0.84 | 11.5 | 0.86 |
| Suburb | 18.0 | 0.81 | 29.0 | 0.95 | 29.7 | 0.96 | 11.0 | 0.66 | 12.4 | 0.69 |
| Town | 17.0 | 1.65 | 29.1 | 1.99 | 30.5 | 2.02 | 11.9 | 1.42 | 11.5 | 1.40 |
| Rural | 22.4 | 1.30 | 31.3 | 1.44 | 26.1 | 1.37 | 10.5 | 0.96 | 9.6 | 0.92 |

[^1]
[^0]:    $\dagger$ Not applicable.
    \#Rounds to zero.
    ! Interpret data with caution. The coefficient of variation (CV) for this estimate is between 30 and 50 percent.
    $\ddagger$ Reporting standards not met. Either there are too few cases for a reliable estimate or the CV is 50 percent or greater.
    11\The SD variable used in this table includes students who have a 504 plan, even if they do not have an individualized education program.
    NOTE: SE=standard error. Race categories exclude persons of Hispanic ethnicity. Detail may not sum to totals because of rounding.

[^1]:    $\dagger$ Not applicable.
    $\ddagger$ Reporting standards not met (too few cases for a reliable estimate).
    11The SD variable used in this table includes students who have a 504 plan, even if they do not have an individualized education program.
    NOTE: SE=standard error. Race categories exclude persons of Hispanic ethnicity. Detail may not sum to totals because of rounding.

