

C. Data used in this report

This appendix details the following data collected for this audit brief:

- Internet speed per student (weighted median)
- Student access to the internet and a device
- Information technology funding for schools.

This data is also presented on an interactive map of Queensland regions, on the Queensland Audit Office [website](#).

Internet speed per student by regions

In Figure C1, we have used the weighted median to represent the median internet speed a student would experience within each Queensland region. For example, the average internet speed for 50 per cent of the students in the Brisbane–East region is 83 kilobits per second (kbps) per student or less.

The weighted median was calculated by:

1. ordering each school within a region by internet speed per student from slowest to fastest
2. cumulatively adding the number of students at the schools in that order until the 50th percentile was reached (that is, the school that represented the crossing of 50 per cent of total number of students for the region). The speed per student at that school became the weighted median for the region.

Figure C1
Internet speeds by Queensland regions

Region	Internet speed kbps per student (weighted median)	Maximum kbps/student	Minimum kbps/student
Overall	61	12,500	20
Brisbane–East	83	159	26
Brisbane–North	56	232	22
Brisbane–South	67	3,448	21
Brisbane–West	67	162	24
Brisbane Inner City	58	397	25
Cairns	54	3,125	25
Central Queensland	55	4,167	24
Darling Downs–Maranoa	64	12,500	32
Far North	52	2,632	20
Gold Coast	60	683	23
Ipswich	60	9,372	23
Logan–Beaudesert	54	273	23
Mackay–Isaac–Whitsunday	53	2,778	22
Moreton Bay–North	62	273	23

Region	Internet speed kbps per student (weighted median)	Maximum kbps/student	Minimum kbps/student
Moreton Bay–South	66	227	27
Outback–North	38	2,907	20
Outback–South	85	2,778	46
Sunshine Coast	68	3,226	24
Toowoomba	72	12,500	24
Townsville	62	5,000	24
Wide Bay	59	4,167	21

Source: Queensland Audit Office using data from the Department of Education.

Access to the internet and a device for students

The department conducted a survey in 2020 that reviewed (among other things) its response to the 2020 COVID-19 lockdown. Through this survey, students, parents or caregivers, school principals, and teachers answered several questions about the availability and accessibility of the internet and technology.

Figure C2 shows the percentage of students who answered yes to the following questions in the survey:

- Did you/your child have data or internet access? (We have only used responses from students.)
- Did you/your child have access to a computer, laptop, or tablet? (We have only used responses from students.)

We have used these results to show student access to the internet and a device at regional levels.

Figure C2
Access to internet and a device by Queensland regions

Region	Access to internet Did children have internet access? (% Yes)	Access to a device				
		Did children have access to a device? (% Yes) (A + B + C)	Own personal computer, laptop, or tablet (A)	School computer, laptop, or tablet (B)	Shared computer, laptop, or tablet (C)	No computer, laptop, or tablet
Overall	94.3%	91.9%	58.7%	17.6%	15.6%	8.1%
Brisbane–East	96.0%	94.2%	67.6%	14.7%	11.9%	5.8%
Brisbane–North	96.5%	94.3%	60.2%	16.8%	17.3%	5.7%
Brisbane–South	97.9%	97.4%	63.6%	23.9%	9.9%	2.6%
Brisbane–West	98.4%	99.1%	73.2%	16.2%	9.7%	1.0%
Brisbane Inner City	98.3%	98.8%	73.2%	9.5%	16.1%	1.2%
Cairns	89.9%	85.1%	52.7%	13.6%	18.8%	14.9%
Central Queensland	91.2%	88.0%	47.7%	19.8%	20.5%	12.0%
Darling Downs–Maranoa	88.5%	84.2%	40.9%	23.5%	19.8%	15.8%

Region	Access to internet	Access to a device				
	Did children have internet access? (% Yes)	Did children have access to a device? (% Yes) (A + B + C)	Own personal computer, laptop, or tablet (A)	School computer, laptop, or tablet (B)	Shared computer, laptop, or tablet (C)	No computer, laptop, or tablet
Far North	75.3%	77.0%	36.2%	29.6%	11.2%	23.0%
Gold Coast	97.0%	96.7%	65.0%	18.1%	13.6%	3.2%
Ipswich	91.6%	86.9%	45.1%	19.8%	22.0%	13.1%
Logan–Beaudesert	93.7%	89.7%	53.0%	18.3%	18.4%	10.3%
Mackay–Isaac–Whitsunday	94.1%	90.3%	57.2%	18.0%	15.1%	9.6%
Moreton Bay–North	92.7%	90.2%	54.0%	19.3%	16.9%	9.8%
Moreton Bay–South	96.8%	95.6%	72.5%	10.4%	12.7%	4.4%
Outback–North	89.4%	85.1%	39.2%	33.0%	12.9%	14.9%
Outback–South	88.9%	84.8%	26.6%	45.7%	12.5%	15.3%
Sunshine Coast	95.5%	94.5%	70.2%	10.0%	14.3%	5.5%
Toowoomba	93.9%	89.0%	53.0%	13.2%	22.8%	11.0%
Townsville	90.8%	84.8%	45.1%	21.4%	18.3%	15.2%
Wide Bay	91.1%	87.7%	53.2%	20.1%	14.4%	12.3%

Source: Queensland Audit Office using data from the Department of Education.

Information technology funding for schools

Figure C3 shows the total funding the department has provided to schools for information technology over the last three years (2018 to 2020). This funding is based on the number of students, so the higher the number of students, the higher the funding.

The student enrolment data is as of February 2021.

Figure C3
School information technology funding by Queensland regions

Region	Student full-time equivalent (FTE) enrolments	School information technology funding
Overall	570,455	\$197,679,567
Brisbane–East	22,488	\$7,720,872
Brisbane–North	19,057	\$6,418,418
Brisbane–South	42,689	\$14,654,921
Brisbane–West	27,091	\$9,012,114
Brisbane Inner City	24,982	\$8,227,188
Cairns	29,604	\$10,689,745
Central Queensland	27,594	\$9,951,808
Darling Downs–Maranoa	14,550	\$5,960,806
Far North	4,862	\$1,753,406

Region	Student full-time equivalent (FTE) enrolments	School information technology funding
Gold Coast	66,557	\$22,551,960
Ipswich	46,174	\$15,660,837
Logan–Beaudesert	43,456	\$14,563,081
Mackay–Isaac–Whitsunday	22,691	\$7,744,916
Moreton Bay–North	30,513	\$10,623,156
Moreton Bay–South	25,071	\$8,457,487
Outback–North	4,063	\$1,455,875
Outback–South	1,809	\$848,886
Sunshine Coast	42,542	\$14,480,278
Toowoomba	17,780	\$6,219,264
Townsville	23,427	\$8,646,438
Wide Bay	33,456	\$12,038,111

Source: Queensland Audit Office using data from the Department of Education.

