TIMSS 2011

TIMSS 2011 Population Coverage and Exclusions

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Exhibit 1 and Exhibit 2 summarize population coverage and exclusions for the TIMSS 2011 target populations. National coverage of the international target population was generally comprehensive, with some exceptions. At the fourth grade, these exceptions included Georgia (assessed only students taught in Georgian), Kuwait (assessed only students in public schools), and Lithuania (assessed only students taught in Lithuanian) together with the U.S. states of Florida and North Carolina (students in public schools only). These participants chose a national target population that was less than the international target population. Since coverage was below 100 percent, the results for these participants were footnoted in the TIMSS 2011 international reports. At eighth grade, all countries except Georgia (only students taught in Georgian), Lithuania (only students taught in Lithuanian), and the benchmarking states of the United States (public school students only) sampled from 100 percent of their international desired population. For the exceptions where coverage was below 100 percent, the results were footnoted in the TIMSS 2011 international reports.

Within the national target population, it was possible to exclude certain types of schools and students. For the most part, school-level exclusions consisted of schools for students with disabilities and very small or remote schools. Occasionally, schools were excluded for other reasons, as documented in **TIMSS 2011 Characteristics of National Samples**. Within-school exclusions generally consisted of students with disabilities or students who could not be assessed in the language of the test (**TIMSS 2011 Characteristics of National Samples** gives more details about the exclusions for each participant in TIMSS 2011). For most participants, the overall percentage of excluded students (combining school and within-school levels) was less than 5 percent (after rounding). However, at the fourth grade, Azerbaijan, Croatia, Denmark, Hong Kong, Kazakhstan, Lithuania, Qatar, Serbia, Singapore and the United States along with two of the benchmarking participants (the U.S. state of North Carolina and the Canadian province of Alberta) had exclusions accounting for between 5 and 10 percent of the desired population. Only the U.S. state of Florida had exclusions exceeding 10 percent. At the eighth grade, Honduras, the Russian Federation, Singapore, and the United States, along with the U.S. states of California, Connecticut, Florida, Indiana and Massachusetts, and the Canadian provinces of Alberta and Ontario, had exclusions accounting for between 5 and 10 percent of the national target population. Only Israel and the U.S. state of North Carolina had exclusions exceeding 10 percent.

Results for participants with more than 5 percent exclusions were annotated in the international reports. Note that some TIMSS 2011 participants had no within-school exclusions.

Exhibit 1: Coverage of TIMSS 2011 Target Population–Grade 4

Country	International Target Population		Exclusions from National Target Population		
	Coverage	Notes on Coverage	School-level Exclusions	Within-sample Exclusions	Overall Exclusions
Armenia	100%		2.0%	0.0%	2.0%
Australia	100%		2.1%	2.3%	4.4%
Austria	100%		1.3%	3.8%	5.1%
2 a Azerbaijan	100%		2.3%	4.9%	7.2%
Bahrain	100%		0.4%	0.7%	1.1%
Belgium (Flemish)	100%		0.5%	4.5%	5.0%
Chile	100%		1.8%	1.9%	3.7%
Chinese Taipei	100%		0.1%	1.4%	1.4%
2 Croatia	100%		2.9%	5.0%	7.9%
Czech Republic	100%		4.1%	0.9%	5.1%
2 Denmark	100%		1.6%	4.7%	6.3%
England	100%		1.7%	0.4%	2.0%
Finland	100%		1.6%	1.5%	3.1%
1 a Georgia	92%	Students taught in Georgian	1.4%	3.5%	4.9%
Germany	100%		0.9%	1.0%	1.9%
2 Hong Kong SAR	100%		5.8%	2.7%	8.6%
Hungary	100%		2.2%	2.0%	4.2%
Iran, Islamic Rep. of	100%		4.4%	0.1%	4.5%
Ireland	100%		1.6%	0.9%	2.5%
Italy	100%		0.0%	3.7%	3.7%
Japan	100%		2.2%	1.0%	3.2%
2 Kazakhstan	100%		3.7%	2.5%	6.3%
Korea, Rep. of	100%		1.5%	1.0%	2.5%
1 Kuwait	78%	Students in public schools	0.3%	0.0%	0.3%
1 2 Lithuania	93%	Students taught in Lithuanian	1.9%	3.7%	5.6%
Malta	100%		0.0%	3.6%	3.6%
Morocco	100%		2.0%	0.0%	2.0%
Netherlands	100%		3.7%	0.4%	4.0%
New Zealand	100%		2.8%	2.2%	4.9%
Northern Ireland	100%		2.6%	0.9%	3.5%
Norway	100%		0.9%	3.3%	4.3%
Oman	100%		0.8%	0.7%	1.5%
Poland	100%		2.3%	1.5%	3.8%
Portugal	100%		1.4%	1.1%	2.5%
2 Qatar	100%		4.3%	1.9%	6.2%
Romania	100%		1.1%	2.9%	4.0%
Russian Federation	100%		2.9%	2.4%	5.3%
Saudi Arabia	100%		1.4%	0.2%	1.6%
2 Serbia	100%		5.3%	4.1%	9.4%
2 Singapore	100%		5.9%	0.4%	6.3%
Slovak Republic	100%		3.8%	0.8%	4.6%
Slovenia	100%		2.3%	0.3%	2.6%
Spain	100%		1.6%	3.6%	5.3%
Sweden	100%		1.9%	2.2%	4.1%
Thailand	100%		1.5%	0.0%	1.5%
Tunisia	100%		2.3%	0.1%	2.5%
Turkey	100%		1.0%	1.5%	2.5%
United Arab Emirates	100%		1.4%	1.8%	3.3%
2 United States	100%		0.0%	7.0%	7.0%
Yemen	100%		3.0%	0.7%	3.7%

1 National Target Population does not include all of the International Target Population.
2 National Defined Population covers 90% to 95% of National Target Population.
3 National Defined population covers less than 90% of National Target population (but at least 77%).
a Exclusion rates for Azerbaijan and Georgia are slightly underestimated as some conflict zones were not covered and no official statistics were available.

Exhibit 1: Coverage of TIMSS 2011 Target Population–Grade 4 (Continued)

Country	International Target Population		Exclusions from National Target Population		
	Coverage	Notes on Coverage	School-level Exclusions	Within-sample Exclusions	Overall Exclusions
Sixth Grade Participants					
Botswana	100%		0.1%	0.2%	0.3%
Honduras	100%		3.8%	0.7%	4.5%
Yemen	100%		3.3%	0.7%	4.0%
Benchmarking Participants					
[2] Alberta, Canada	100%		1.5%	6.1%	7.5%
Ontario, Canada	100%		1.0%	4.3%	5.3%
Quebec, Canada	100%		2.7%	1.0%	3.7%
Abu Dhabi, UAE	100%		1.4%	1.3%	2.7%
Dubai, UAE	100%		0.4%	4.8%	5.1%
[1 3] Florida, US	89%	Students in public schools	0.0%	12.1%	12.1%
[1 2] North Carolina, US	93%	Students in public schools	0.0%	10.1%	10.1%

Exhibit 2: Coverage of TIMSS 2011 Target Population–Grade 8

Country	International Target Population		Exclusions from National Target Population		
	Coverage	Notes on Coverage	School-level Exclusions	Within-sample Exclusions	Overall Exclusions
Armenia	100%		1.5%	0.0%	1.5%
Australia	100%		1.3%	1.9%	3.2%
Bahrain	100%		0.5%	1.1%	1.6%
Chile	100%		1.1%	1.7%	2.8%
Chinese Taipei	100%		0.1%	1.2%	1.3%
England	100%		2.2%	0.1%	2.2%
Finland	100%		2.6%	0.9%	3.4%
[1 a] Georgia	93%	Students taught in Georgian	0.9%	3.7%	4.5%
Ghana	100%		0.6%	0.0%	0.6%
Hong Kong SAR	100%		3.9%	1.3%	5.3%
Hungary	100%		2.3%	2.1%	4.4%
Indonesia	100%		3.2%	0.0%	3.2%
Iran, Islamic Rep. of	100%		2.2%	0.0%	2.2%
[3] Israel	100%		16.4%	6.1%	22.6%
Italy	100%		0.0%	4.6%	4.7%
Japan	100%		1.8%	1.0%	2.8%
Jordan	100%		0.0%	0.4%	0.4%
Kazakhstan	100%		3.8%	1.3%	5.1%
Korea, Rep. of	100%		1.0%	0.9%	1.9%
Lebanon	100%		1.4%	0.0%	1.4%
[1] Lithuania	93%	Students taught in Lithuanian	1.4%	3.4%	4.8%
Macedonia, Rep. of	100%		2.8%	0.6%	3.3%
Malaysia	100%		0.1%	0.0%	0.1%
Morocco	100%		0.1%	0.0%	0.1%
New Zealand	100%		2.0%	1.2%	3.2%
Norway	100%		0.5%	1.4%	1.9%
Oman	100%		0.9%	0.3%	1.2%
Palestinian Nat'l Auth.	100%		0.6%	0.9%	1.5%
Qatar	100%		4.0%	0.5%	4.5%
Romania	100%		0.0%	1.2%	1.3%
[2] Russian Federation	100%		2.9%	3.1%	6.0%
Saudi Arabia	100%		1.2%	0.1%	1.2%
[2] Singapore	100%		5.7%	0.4%	6.0%
Slovenia	100%		1.7%	0.6%	2.3%

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Exhibit 2: Coverage of TIMSS 2011 Target Population–Grade 8 (Continued)

Country	International Target Population		Exclusions from National Target Population		
	Coverage	Notes on Coverage	School-level Exclusions	Within-sample Exclusions	Overall Exclusions
Sweden	100%		2.2%	2.9%	5.1%
Syrian Arab Republic	100%		1.9%	0.0%	1.9%
Thailand	100%		1.4%	0.1%	1.5%
Tunisia	100%		0.3%	0.1%	0.3%
Turkey	100%		0.2%	1.2%	1.5%
Ukraine	100%		2.5%	0.4%	2.8%
United Arab Emirates	100%		1.5%	1.3%	2.8%
2 United States	100%		0.0%	7.2%	7.2%
Ninth Grade Participants					
Botswana	100%		0.0%	0.0%	0.0%
2 Honduras	100%		3.0%	2.7%	5.6%
South Africa	100%		1.4%	0.0%	1.4%
Benchmarking Participants					
2 Alberta, Canada	100%		1.5%	5.9%	7.4%
2 Ontario, Canada	100%		0.8%	4.8%	5.6%
Quebec, Canada	100%		2.0%	3.0%	4.9%
Abu Dhabi, UAE	100%		1.1%	0.6%	1.7%
Dubai, UAE	100%		0.2%	3.8%	4.0%
1 Alabama, US	92%	Students in public schools	0.0%	4.6%	4.6%
1 2 California, US	91%	Students in public schools	0.0%	5.6%	5.6%
1 Colorado, US	94%	Students in public schools	0.0%	4.1%	4.1%
1 2 Connecticut, US	90%	Students in public schools	0.0%	8.5%	8.5%
1 2 Florida, US	89%	Students in public schools	0.0%	6.9%	6.9%
1 2 Indiana, US	90%	Students in public schools	0.0%	6.3%	6.3%
1 2 Massachusetts, US	89%	Students in public schools	0.0%	7.9%	7.9%
1 Minnesota, US	90%	Students in public schools	0.0%	4.3%	4.3%
1 3 North Carolina, US	93%	Students in public schools	0.0%	11.4%	11.4%

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