Appendix D

Percentage of Students with Achievement Too Low for Estimation



SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

Country with Achievement Too Low for Estimation Average Percent Correct Australia 2 (0.2) 58 (0.6) Austria 1 (0.1) 57 (0.5) Azerbaijan 3 (0.4) 41 (0.7) Belgium (French) 1 (0.3) 51 (0.8) Bulgaria 2 (0.4) 59 (1.0) Canada 1 (0.1) 63 (0.4) Chinese Taipei 1 (0.1) 65 (0.5) Colombia 7 (0.8) 37 (1.0) Croatia 0 (0.1) 65 (0.4) Czech Republic 0 (0.1) 63 (0.5) Denmark 0 (0.1) 65 (0.4) England 2 (0.3) 64 (0.6) Finland 0 (0.1) 68 (0.5) France 1 (0.3) 55 (0.7) Georgia 3 (0.4) 48 (0.7) Germany 1 (0.2) 61 (0.6) Hong Kong SAR 0 (0.1) 69 (0.6) Hungary 2 (0.3) 61 (0.7) Indonesia 7 (0.9) 33 (0.8) Iran, Islamic Rep. of		Percentage of Students		
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Poland 1 (0.2) 57 (0.5) Portugal 1 (0.2) 61 (0.7) Qatar 11 (0.7) 35 (0.8)	Norway	1 (0.2)	51 (0.5)	
Poland 1 (0.2) 57 (0.5) Portugal 1 (0.2) 61 (0.7) Qatar 11 (0.7) 35 (0.8)	ΨOman	16 (0.6)	28 (0.4)	
Portugal 1 (0.2) 61 (0.7) Qatar 11 (0.7) 35 (0.8)	Poland			
Qatar 11 (0.7) 35 (0.8)	Portugal			
NOTHALIA 4 (0.7) 32 (1.0)	Romania	4 (0.7)	52 (1.0)	
Russian Federation 0 (0.1) 68 (0.7)	Russian Federation	` '	` '	
Saudi Arabia 9 (0.7) 34 (0.8)				
Singapore 1 (0.1) 68 (0.8)		` '	` ,	
Slovak Republic 1 (0.3) 60 (0.7)		, ,		
Slovenia 1 (0.2) 58 (0.5)	·			
Spain 1 (0.2) 54 (0.6)				
Sweden 1 (0.2) 61 (0.6)			` '	
Trinidad and Tobago 5 (0.6) 44 (0.9)				
United Arab Emirates 10 (0.4) 37 (0.4)				
United States 1 (0.1) 65 (0.4)				

Students were considered to have achievement too low for estimation if their performance $% \left(1\right) =\left(1\right) \left(1\right)$ on the assessment was no better than could be achieved by simply guessing on the multiple choice assessment items. However, such students were assigned scale scores (plausible values) by the achievement scaling procedure, despite concerns about their reliability.

 $[\]label{prop:control} \mbox{Average achievement not reliably measured because the percentage of students with}$ achievement too low for estimation exceeds 25%.

Reservations about reliability of average achievement because the percentage of students with achievement too low for estimation does not exceed 25% but exceeds 15%.

⁽⁾ Standard errors appear in parentheses. Because of rounding some results may appear

Appendix D.1: Percentage of Students with Achievement Too Low for Estimation* (Continued)



Country	Percentage of Students with Achievement Too Low for Estimation	Average Percent Correct
Sixth Grade Participants		
Botswana	9 (0.6)	32 (0.9)
Honduras	7 (0.8)	38 (1.1)
Kuwait	12 (1.1)	35 (0.8)
Morocco	10 (0.7)	33 (0.7)
Benchmarking Participants		
	1 (0.2)	63 (0.8)
Alberta, Canada	1 (0.2) 1 (0.1)	63 (0.8) 64 (0.6)
	1 (0.2) 1 (0.1) 0 (0.1)	63 (0.8) 64 (0.6) 60 (0.6)
Alberta, Canada Ontario, Canada	1 (0.1)	64 (0.6)
Alberta, Canada Ontario, Canada Quebec, Canada	1 (0.1) 0 (0.1)	64 (0.6) 60 (0.6)
Alberta, Canada Ontario, Canada Quebec, Canada Maltese - Malta	1 (0.1) 0 (0.1) 6 (0.4)	64 (0.6) 60 (0.6) 40 (0.3)
Alberta, Canada Ontario, Canada Quebec, Canada Maltese - Malta ♥ Eng/Afr (5) - RSA	1 (0.1) 0 (0.1) 6 (0.4) 16 (1.7)	64 (0.6) 60 (0.6) 40 (0.3) 35 (1.4)
Alberta, Canada Ontario, Canada Quebec, Canada Maltese - Malta ^Ψ Eng/Afr (5) - RSA Andalusia, Spain	1 (0.1) 0 (0.1) 6 (0.4) 16 (1.7) 1 (0.2)	64 (0.6) 60 (0.6) 40 (0.3) 35 (1.4) 54 (0.6)

 $^{^{\}lozenge}$ Republic of South Africa (RSA) tested 5th grade students receiving instruction in English (ENG) or Afrikaans (AFR).



Country	Percentage of Students with Achievement Too Low for Estimation	Average Percent Correct
Botswana	10 (0.6)	36 (0.9)
Colombia	1 (0.3)	66 (1.0)
South Africa	14 (0.8)	36 (0.9)

