

Appendix C

Percentiles and Standard Deviations of Reading Achievement

Exhibit C.1 Percentiles of Achievement in Reading

PIRLS 2006
4th Grade

Countries	5th percentile	25th percentile	50th percentile	75th percentile	95th percentile
Austria	427 (3.5)	498 (4.1)	542 (2.6)	582 (2.2)	636 (5.3)
Belgium (Flemish)	451 (3.7)	512 (1.8)	549 (3.2)	585 (1.9)	636 (4.6)
Belgium (French)	381 (2.7)	455 (3.2)	503 (3.4)	547 (2.9)	608 (4.1)
Bulgaria	397 (10.0)	498 (6.5)	553 (4.6)	604 (3.4)	673 (6.0)
Canada, Alberta	446 (5.8)	516 (4.2)	562 (2.6)	607 (2.6)	668 (2.6)
Canada, British Columbia	439 (5.5)	513 (4.8)	561 (2.8)	606 (2.8)	668 (4.1)
Canada, Nova Scotia	407 (8.1)	495 (3.7)	547 (2.4)	594 (2.8)	658 (3.8)
Canada, Ontario	433 (4.7)	510 (4.0)	557 (3.5)	603 (4.3)	666 (4.7)
Canada, Quebec	422 (6.9)	493 (3.4)	536 (3.7)	577 (3.8)	632 (4.0)
Chinese Taipei	420 (3.9)	497 (3.0)	540 (1.7)	579 (2.0)	633 (4.7)
Denmark	418 (4.5)	505 (3.6)	553 (2.7)	594 (1.8)	649 (2.9)
England	383 (8.0)	486 (4.6)	546 (2.9)	598 (2.3)	673 (5.1)
France	406 (2.5)	478 (2.4)	525 (2.1)	568 (2.1)	626 (4.7)
Georgia	342 (5.1)	420 (5.5)	475 (3.4)	525 (3.7)	588 (5.1)
Germany	430 (4.9)	508 (3.0)	553 (3.1)	593 (2.3)	647 (2.4)
Hong Kong SAR	460 (4.7)	527 (2.9)	567 (1.6)	605 (1.8)	655 (2.9)
Hungary	427 (6.4)	507 (5.0)	555 (3.1)	599 (3.5)	658 (2.3)
Iceland	388 (2.6)	469 (2.0)	516 (1.2)	558 (2.4)	615 (2.3)
Indonesia	271 (7.5)	351 (4.6)	408 (4.1)	460 (4.6)	529 (3.2)
Iran, Islamic Rep. of	258 (5.3)	357 (4.7)	427 (3.6)	489 (4.6)	567 (2.5)
Israel	325 (11.0)	453 (5.6)	527 (2.4)	582 (2.8)	653 (5.2)
Italy	435 (5.3)	507 (3.0)	554 (3.3)	599 (4.3)	658 (3.3)
Kuwait	148 (10.1)	251 (6.4)	331 (4.7)	411 (4.4)	510 (2.5)
Latvia	433 (9.2)	501 (4.9)	543 (2.7)	585 (3.1)	639 (3.3)
Lithuania	440 (5.1)	500 (2.0)	539 (1.5)	577 (2.2)	627 (4.5)
Luxembourg	442 (2.7)	514 (1.8)	560 (1.9)	603 (1.2)	662 (2.4)
Macedonia, Rep. of	272 (8.4)	369 (4.6)	448 (6.0)	518 (4.5)	599 (7.5)
Moldova, Rep. of	378 (4.1)	457 (4.2)	505 (4.4)	547 (2.2)	606 (3.8)
Morocco	144 (9.6)	244 (7.9)	321 (8.3)	402 (9.1)	503 (7.8)
Netherlands	457 (3.3)	513 (1.8)	549 (1.9)	584 (1.8)	631 (2.1)
New Zealand	374 (3.0)	478 (2.5)	539 (2.2)	592 (2.1)	664 (4.0)
Norway	378 (3.8)	457 (5.5)	503 (3.2)	544 (2.4)	598 (3.7)
Poland	386 (5.8)	470 (3.9)	525 (3.1)	572 (1.7)	635 (3.0)
Qatar	198 (2.9)	284 (1.4)	353 (1.6)	424 (2.2)	509 (4.0)
Romania	317 (12.7)	436 (8.5)	501 (4.5)	554 (3.0)	621 (3.5)
Russian Federation	443 (9.5)	523 (4.4)	569 (4.1)	612 (2.9)	671 (2.7)
Scotland	385 (5.5)	480 (4.9)	532 (4.1)	581 (3.8)	651 (8.4)
Singapore	420 (5.8)	512 (4.9)	565 (4.0)	612 (2.8)	672 (3.2)
Slovak Republic	394 (6.3)	488 (4.0)	539 (4.4)	582 (2.6)	639 (2.9)
Slovenia	395 (3.7)	476 (2.2)	527 (1.9)	571 (1.7)	629 (2.6)
South Africa	108 (3.4)	203 (3.6)	283 (4.8)	384 (9.2)	562 (13.2)
Spain	390 (4.1)	468 (3.4)	517 (2.3)	561 (1.7)	622 (3.8)
Sweden	437 (3.6)	512 (3.4)	554 (2.2)	592 (2.3)	647 (5.5)
Trinidad and Tobago	255 (6.3)	364 (5.3)	443 (6.0)	510 (4.1)	595 (6.6)
United States	409 (7.6)	494 (3.5)	545 (4.2)	592 (3.8)	653 (7.3)

SOURCE: IEA Progress in International Reading Literacy Study (PIRLS) 2006

() Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.

Exhibit C.2 Standard Deviations of Achievement in Reading

PIRLS 2006
4th Grade

Countries	Overall		Girls		Boys	
	Mean	Standard Deviation	Mean	Standard Deviation	Mean	Standard Deviation
Austria	538 (2.2)	64 (1.4)	543 (2.3)	62 (1.7)	533 (2.6)	65 (1.7)
Belgium (Flemish)	547 (2.0)	56 (1.0)	550 (2.3)	54 (1.2)	544 (2.4)	57 (1.2)
Belgium (French)	500 (2.6)	69 (1.3)	502 (2.8)	67 (1.5)	497 (2.9)	70 (1.6)
Bulgaria	547 (4.4)	83 (2.4)	558 (4.4)	80 (2.7)	537 (5.0)	84 (3.1)
Canada, Alberta	560 (2.4)	68 (1.2)	564 (2.4)	67 (1.6)	556 (2.7)	67 (1.3)
Canada, British Columbia	558 (2.6)	69 (1.3)	562 (2.9)	68 (1.7)	554 (3.1)	70 (1.6)
Canada, Nova Scotia	542 (2.2)	76 (1.5)	553 (2.5)	73 (2.0)	531 (2.8)	78 (1.9)
Canada, Ontario	555 (2.7)	71 (1.3)	562 (3.3)	68 (1.4)	549 (3.3)	72 (2.1)
Canada, Quebec	533 (2.8)	63 (1.1)	539 (2.7)	61 (1.6)	527 (3.5)	65 (1.6)
Chinese Taipei	535 (2.0)	64 (1.0)	542 (2.2)	62 (1.3)	529 (2.3)	66 (1.3)
Denmark	546 (2.3)	70 (1.2)	553 (2.8)	69 (1.9)	539 (2.7)	69 (1.7)
England	539 (2.6)	87 (1.6)	549 (3.0)	87 (2.1)	530 (2.8)	86 (1.8)
France	522 (2.1)	67 (1.0)	527 (2.4)	65 (1.3)	516 (2.4)	67 (1.2)
Georgia	471 (3.1)	75 (1.5)	480 (3.3)	73 (1.6)	463 (3.8)	76 (1.9)
Germany	548 (2.2)	67 (1.2)	551 (2.5)	66 (1.4)	544 (2.5)	68 (1.8)
Hong Kong SAR	564 (2.4)	59 (1.2)	569 (2.5)	56 (1.4)	559 (2.8)	61 (1.4)
Hungary	551 (3.0)	70 (1.8)	554 (3.6)	70 (2.3)	548 (2.9)	70 (1.9)
Iceland	511 (1.3)	68 (1.0)	520 (1.7)	65 (1.5)	501 (1.9)	70 (1.3)
Indonesia	405 (4.1)	79 (2.1)	415 (4.2)	76 (2.1)	395 (4.6)	80 (2.6)
Iran, Islamic Rep. of	421 (3.1)	95 (1.8)	429 (5.3)	94 (2.8)	414 (3.8)	95 (2.5)
Israel	512 (3.3)	99 (2.6)	520 (4.1)	96 (3.0)	506 (3.7)	101 (2.8)
Italy	551 (2.9)	68 (1.4)	555 (3.3)	67 (1.7)	548 (3.3)	68 (2.0)
Kuwait	330 (4.2)	h (2.1)	364 (4.7)	101 (2.7)	297 (6.2)	109 (2.8)
Latvia	541 (2.3)	63 (1.2)	553 (2.7)	60 (1.3)	530 (2.6)	63 (1.8)
Lithuania	537 (1.6)	57 (1.1)	546 (2.0)	56 (1.3)	528 (2.0)	56 (1.4)
Luxembourg	557 (1.1)	66 (0.7)	559 (1.3)	66 (0.9)	556 (1.6)	67 (1.0)
Macedonia, Rep. of	442 (4.1)	101 (2.3)	453 (4.4)	101 (2.7)	432 (4.4)	100 (2.6)
Moldova, Rep. of	500 (3.0)	69 (1.4)	507 (3.1)	67 (1.7)	493 (3.5)	70 (2.1)
Morocco	323 (5.9)	109 (2.8)	332 (6.6)	106 (3.0)	314 (6.6)	h (3.8)
Netherlands	547 (1.5)	53 (0.9)	551 (2.0)	53 (1.2)	543 (1.6)	53 (1.3)
New Zealand	532 (2.0)	87 (1.3)	544 (2.2)	81 (1.5)	520 (2.9)	90 (1.8)
Norway	498 (2.6)	67 (1.4)	508 (2.8)	64 (1.7)	489 (3.1)	67 (1.8)
Poland	519 (2.4)	75 (1.3)	528 (2.6)	74 (1.6)	511 (2.7)	76 (1.6)
Qatar	353 (1.1)	96 (0.9)	372 (1.7)	90 (1.1)	335 (1.7)	97 (1.3)
Romania	489 (5.0)	91 (3.0)	497 (5.0)	91 (3.5)	483 (5.7)	92 (3.4)
Russian Federation	565 (3.4)	69 (2.0)	572 (3.9)	67 (2.1)	557 (3.4)	69 (2.3)
Scotland	527 (2.8)	80 (1.6)	538 (3.6)	78 (1.8)	516 (3.1)	80 (2.2)
Singapore	558 (2.9)	77 (1.6)	567 (3.1)	73 (1.7)	550 (3.3)	79 (1.9)
Slovak Republic	531 (2.8)	74 (2.1)	537 (2.7)	73 (2.1)	525 (3.3)	75 (2.7)
Slovenia	522 (2.1)	71 (0.9)	532 (2.1)	67 (1.3)	512 (2.7)	73 (1.2)
South Africa	302 (5.6)	136 (3.6)	319 (6.3)	136 (4.3)	283 (5.5)	134 (3.6)
Spain	513 (2.5)	71 (1.6)	515 (2.6)	71 (1.9)	511 (3.1)	71 (2.3)
Sweden	549 (2.3)	64 (1.3)	559 (2.6)	62 (1.5)	541 (2.6)	64 (1.7)
Trinidad and Tobago	436 (4.9)	103 (2.6)	451 (4.9)	98 (3.2)	420 (6.0)	106 (2.9)
United States	540 (3.5)	74 (1.3)	545 (3.3)	71 (1.5)	535 (4.4)	77 (1.7)

SOURCE: IEA Progress in International Reading Literacy Study (PIRLS) 2006

() Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.

Exhibit C.3 Percentiles of Achievement in Literary Reading

PIRLS 2006
4th Grade

Countries	5th percentile	25th percentile	50th percentile	75th percentile	95th percentile
Austria	427 (4.1)	498 (3.4)	541 (2.9)	580 (2.8)	633 (3.5)
Belgium (Flemish)	445 (4.0)	508 (2.2)	546 (1.9)	583 (3.6)	635 (3.6)
Belgium (French)	383 (6.8)	455 (2.8)	503 (3.3)	546 (3.2)	606 (3.4)
Bulgaria	391 (7.7)	492 (4.6)	548 (4.3)	599 (5.4)	670 (4.8)
Canada, Alberta	439 (4.1)	516 (3.8)	564 (2.2)	609 (2.7)	674 (4.5)
Canada, British Columbia	436 (3.0)	512 (3.7)	562 (3.1)	608 (3.9)	674 (4.3)
Canada, Nova Scotia	406 (5.9)	495 (3.4)	547 (2.4)	596 (2.3)	662 (3.6)
Canada, Ontario	428 (6.6)	508 (3.4)	557 (2.9)	605 (3.4)	675 (5.6)
Canada, Quebec	420 (4.4)	488 (4.9)	533 (3.4)	574 (3.6)	628 (4.3)
Chinese Taipei	409 (3.2)	488 (3.1)	534 (2.2)	577 (2.0)	638 (3.1)
Denmark	422 (6.0)	507 (3.2)	554 (2.0)	594 (1.6)	649 (1.8)
England	382 (5.5)	483 (2.3)	544 (3.7)	600 (2.6)	679 (5.4)
France	402 (4.0)	474 (3.1)	519 (2.4)	562 (2.6)	620 (4.2)
Georgia	347 (5.6)	426 (3.2)	479 (4.2)	530 (4.2)	595 (4.3)
Germany	431 (5.4)	510 (1.6)	555 (3.0)	594 (3.5)	647 (3.4)
Hong Kong SAR	446 (3.2)	517 (4.3)	560 (2.5)	601 (2.3)	657 (3.4)
Hungary	435 (4.2)	513 (4.1)	560 (2.7)	604 (2.5)	665 (3.6)
Iceland	397 (2.6)	474 (2.9)	519 (1.9)	560 (2.6)	615 (5.5)
Indonesia	265 (10.3)	344 (3.6)	400 (4.4)	452 (4.5)	522 (4.7)
Iran, Islamic Rep. of	262 (8.1)	360 (3.8)	432 (4.1)	496 (3.0)	574 (5.2)
Israel	334 (13.5)	457 (6.5)	530 (2.8)	584 (3.6)	658 (4.6)
Italy	425 (9.3)	504 (3.2)	554 (3.5)	603 (3.6)	669 (6.9)
Kuwait	165 (7.5)	264 (5.3)	341 (3.3)	417 (3.1)	517 (5.5)
Latvia	430 (8.2)	499 (3.5)	543 (1.8)	582 (2.7)	638 (3.2)
Lithuania	441 (4.1)	504 (2.1)	543 (2.7)	582 (3.3)	635 (3.8)
Luxembourg	437 (3.3)	512 (2.4)	557 (1.3)	601 (1.7)	663 (3.2)
Macedonia, Rep. of	275 (8.6)	368 (4.7)	443 (3.8)	511 (5.4)	590 (3.4)
Moldova, Rep. of	371 (6.1)	449 (3.9)	497 (2.8)	538 (3.9)	599 (6.4)
Morocco	128 (10.8)	234 (5.6)	316 (6.8)	402 (8.4)	507 (7.1)
Netherlands	448 (3.5)	508 (2.0)	547 (2.6)	583 (2.9)	635 (3.4)
New Zealand	373 (3.5)	473 (2.8)	534 (3.0)	588 (3.1)	658 (2.3)
Norway	382 (4.3)	460 (4.2)	506 (3.7)	547 (3.5)	602 (2.5)
Poland	387 (4.7)	472 (4.3)	529 (3.4)	577 (2.3)	645 (4.3)
Qatar	201 (5.7)	290 (2.2)	358 (2.0)	429 (2.4)	514 (3.5)
Romania	323 (10.4)	440 (7.2)	501 (5.4)	557 (3.9)	627 (3.3)
Russian Federation	440 (6.3)	517 (3.7)	565 (4.0)	608 (2.7)	670 (5.9)
Scotland	381 (5.1)	478 (4.0)	532 (3.7)	582 (2.5)	651 (5.2)
Singapore	408 (5.8)	502 (5.1)	557 (3.5)	608 (3.0)	673 (4.7)
Slovak Republic	398 (5.9)	491 (5.3)	541 (3.3)	584 (2.8)	642 (2.4)
Slovenia	396 (2.7)	476 (3.9)	525 (2.2)	567 (3.4)	625 (2.5)
South Africa	107 (3.7)	203 (4.0)	280 (4.5)	381 (8.5)	555 (10.9)
Spain	385 (4.0)	470 (3.7)	520 (2.1)	569 (3.0)	632 (4.8)
Sweden	437 (4.4)	508 (4.1)	550 (3.2)	588 (2.3)	640 (3.7)
Trinidad and Tobago	257 (9.6)	362 (9.2)	440 (4.4)	510 (5.2)	593 (4.4)
United States	403 (6.6)	492 (5.3)	546 (3.3)	595 (3.2)	660 (5.4)

SOURCE: IEA Progress in International Reading Literacy Study (PIRLS) 2006

() Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.

Exhibit C.4 Standard Deviations of Achievement in Literary Reading

PIRLS 2006
4th Grade

Countries	Overall		Girls		Boys	
	Mean	Standard Deviation	Mean	Standard Deviation	Mean	Standard Deviation
Austria	537 (2.1)	62 (1.1)	543 (2.6)	60 (1.3)	531 (2.4)	64 (1.4)
Belgium (Flemish)	544 (1.9)	58 (1.3)	547 (2.2)	56 (1.8)	541 (2.3)	59 (1.4)
Belgium (French)	499 (2.4)	67 (1.2)	504 (2.6)	66 (1.4)	495 (2.8)	68 (1.5)
Bulgaria	542 (4.5)	84 (3.0)	553 (4.6)	80 (2.8)	532 (5.4)	86 (4.1)
Canada, Alberta	561 (2.7)	71 (1.8)	567 (2.9)	70 (2.3)	556 (3.0)	71 (1.7)
Canada, British Columbia	559 (2.7)	72 (1.4)	565 (3.0)	70 (1.7)	553 (3.2)	72 (1.7)
Canada, Nova Scotia	543 (2.4)	77 (1.4)	552 (3.4)	74 (1.7)	534 (2.6)	79 (1.9)
Canada, Ontario	555 (3.0)	74 (1.2)	562 (3.5)	72 (1.8)	549 (3.3)	76 (2.0)
Canada, Quebec	529 (2.8)	64 (1.4)	536 (3.1)	61 (2.2)	523 (3.4)	66 (1.6)
Chinese Taipei	530 (2.0)	69 (1.3)	538 (2.2)	67 (1.7)	523 (2.2)	71 (1.4)
Denmark	547 (2.6)	68 (1.7)	554 (3.0)	68 (2.2)	541 (3.1)	68 (1.8)
England	539 (2.6)	89 (1.6)	550 (3.1)	89 (1.8)	528 (2.7)	88 (2.4)
France	516 (2.4)	66 (1.1)	523 (2.6)	64 (1.3)	510 (2.7)	67 (1.3)
Georgia	476 (3.2)	75 (1.6)	484 (3.7)	74 (1.4)	470 (3.6)	76 (2.4)
Germany	549 (2.2)	66 (1.1)	554 (2.4)	65 (1.5)	544 (2.6)	67 (1.7)
Hong Kong SAR	557 (2.6)	64 (1.3)	564 (2.6)	61 (1.4)	551 (3.3)	66 (1.6)
Hungary	557 (2.9)	70 (1.9)	560 (3.6)	70 (2.4)	553 (2.9)	70 (2.1)
Iceland	514 (1.7)	66 (1.0)	525 (2.4)	63 (1.4)	504 (1.9)	67 (1.3)
Indonesia	397 (3.9)	78 (1.8)	408 (4.0)	76 (2.1)	387 (4.4)	79 (2.3)
Iran, Islamic Rep. of	426 (3.1)	96 (2.0)	432 (5.3)	97 (2.6)	421 (4.0)	96 (2.7)
Israel	516 (3.4)	98 (2.3)	524 (4.0)	96 (2.6)	509 (3.8)	99 (2.7)
Italy	551 (3.3)	74 (1.7)	556 (3.6)	72 (1.8)	548 (3.6)	75 (2.4)
Kuwait	340 (3.7)	108 (2.4)	372 (4.5)	102 (2.2)	310 (5.2)	105 (2.8)
Latvia	539 (2.4)	63 (1.3)	550 (3.0)	61 (1.4)	529 (2.7)	64 (2.0)
Lithuania	542 (1.9)	58 (1.0)	550 (2.4)	58 (1.3)	533 (2.0)	58 (1.2)
Luxembourg	555 (1.0)	68 (0.8)	557 (1.4)	68 (1.0)	552 (1.4)	69 (1.0)
Macedonia, Rep. of	439 (3.7)	97 (2.1)	449 (4.3)	96 (2.3)	429 (4.0)	97 (2.6)
Moldova, Rep. of	492 (2.8)	68 (1.5)	499 (3.3)	67 (1.8)	486 (3.0)	69 (1.8)
Morocco	317 (6.5)	116 (2.6)	326 (6.9)	113 (3.0)	310 (7.4)	119 (3.4)
Netherlands	545 (1.8)	57 (1.3)	548 (2.2)	57 (1.6)	541 (2.3)	56 (1.6)
New Zealand	527 (2.1)	86 (1.3)	539 (2.3)	81 (2.0)	516 (2.9)	90 (1.5)
Norway	501 (2.5)	67 (1.4)	512 (2.8)	64 (1.7)	491 (2.7)	67 (1.9)
Poland	523 (2.5)	78 (1.5)	532 (2.8)	77 (1.9)	514 (3.0)	77 (1.8)
Qatar	358 (1.3)	96 (1.5)	376 (1.8)	92 (1.5)	341 (2.3)	97 (1.8)
Romania	493 (4.8)	91 (3.3)	501 (4.9)	90 (3.7)	485 (5.6)	91 (3.6)
Russian Federation	561 (3.3)	69 (2.0)	568 (3.8)	68 (2.1)	554 (3.3)	70 (2.3)
Scotland	527 (2.6)	81 (1.7)	538 (3.4)	79 (2.1)	515 (3.0)	82 (2.1)
Singapore	552 (2.9)	80 (2.0)	560 (3.2)	77 (1.9)	544 (3.4)	82 (2.4)
Slovak Republic	533 (2.9)	74 (2.7)	539 (2.9)	73 (2.4)	527 (3.5)	75 (3.3)
Slovenia	519 (2.0)	69 (1.2)	529 (2.3)	66 (1.6)	511 (2.6)	71 (1.4)
South Africa	299 (5.2)	135 (3.5)	318 (6.0)	134 (3.9)	281 (5.3)	132 (3.8)
Spain	516 (2.7)	75 (1.5)	520 (3.1)	75 (2.2)	513 (3.1)	75 (1.9)
Sweden	546 (2.3)	61 (1.1)	557 (2.7)	60 (1.6)	536 (2.6)	61 (1.4)
Trinidad and Tobago	434 (4.6)	104 (2.7)	450 (4.9)	98 (3.0)	419 (5.6)	107 (3.0)
United States	541 (3.6)	78 (1.5)	547 (3.6)	75 (1.9)	534 (4.1)	80 (2.0)

SOURCE: IEA Progress in International Reading Literacy Study (PIRLS) 2006

() Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.

Exhibit C.5 Percentiles of Achievement in Informational Reading
PIRLS 2006
4th Grade

Countries	5th percentile	25th percentile	50th percentile	75th percentile	95th percentile
Austria	424 (6.7)	495 (2.5)	540 (2.4)	581 (2.0)	637 (3.0)
Belgium (Flemish)	456 (5.3)	512 (2.7)	549 (2.8)	584 (2.6)	631 (1.9)
Belgium (French)	383 (4.5)	453 (4.2)	500 (3.1)	545 (2.7)	606 (4.4)
Bulgaria	403 (10.9)	500 (5.5)	555 (4.5)	605 (3.3)	678 (3.5)
Canada, Alberta	445 (5.4)	513 (3.6)	557 (3.5)	600 (3.6)	662 (2.6)
Canada, British Columbia	437 (6.0)	510 (3.7)	555 (3.3)	600 (2.5)	662 (4.7)
Canada, Nova Scotia	406 (9.2)	493 (2.7)	544 (2.6)	590 (2.1)	653 (3.9)
Canada, Ontario	440 (6.3)	509 (3.6)	554 (3.6)	597 (3.6)	659 (4.2)
Canada, Quebec	423 (3.9)	493 (2.4)	536 (3.4)	578 (3.7)	633 (5.4)
Chinese Taipei	435 (5.7)	502 (2.2)	542 (1.9)	578 (2.1)	628 (2.2)
Denmark	412 (5.7)	498 (3.2)	548 (3.8)	592 (2.3)	649 (3.1)
England	387 (5.3)	485 (3.9)	543 (3.5)	595 (2.7)	666 (3.2)
France	413 (3.7)	482 (3.7)	528 (1.8)	573 (2.9)	631 (3.0)
Georgia	333 (4.5)	415 (3.5)	469 (3.5)	520 (4.1)	586 (6.3)
Germany	428 (4.0)	505 (2.1)	550 (2.6)	590 (2.5)	643 (2.3)
Hong Kong SAR	471 (4.6)	533 (3.4)	572 (2.1)	607 (2.3)	654 (2.2)
Hungary	419 (4.2)	497 (4.8)	545 (3.3)	589 (3.3)	649 (3.7)
Iceland	380 (3.3)	459 (1.9)	509 (1.8)	555 (1.7)	616 (2.2)
Indonesia	275 (5.2)	363 (4.5)	422 (6.0)	476 (4.2)	545 (5.4)
Iran, Islamic Rep. of	269 (4.0)	357 (4.2)	422 (3.6)	485 (4.3)	564 (5.1)
Israel	321 (5.3)	450 (4.9)	521 (3.3)	576 (2.2)	649 (3.8)
Italy	439 (3.6)	508 (2.6)	552 (3.1)	593 (3.6)	651 (6.7)
Kuwait	131 (6.8)	243 (5.2)	326 (5.0)	412 (6.3)	518 (6.9)
Latvia	435 (6.5)	499 (2.4)	542 (2.5)	583 (3.5)	640 (3.4)
Lithuania	437 (2.6)	495 (2.5)	532 (2.1)	568 (2.5)	616 (2.0)
Luxembourg	448 (3.8)	514 (3.2)	559 (1.7)	601 (1.4)	658 (3.3)
Macedonia, Rep. of	276 (5.9)	378 (4.1)	455 (5.2)	526 (4.6)	609 (5.7)
Moldova, Rep. of	386 (5.2)	463 (4.7)	512 (4.6)	557 (2.4)	617 (5.8)
Morocco	164 (9.3)	262 (4.6)	334 (6.4)	409 (7.8)	505 (14.4)
Netherlands	463 (3.7)	515 (2.9)	549 (2.4)	582 (1.9)	627 (5.1)
New Zealand	384 (4.0)	481 (1.8)	540 (2.8)	592 (2.5)	661 (1.8)
Norway	375 (4.9)	450 (4.9)	499 (3.1)	542 (3.8)	599 (4.4)
Poland	391 (4.8)	468 (4.9)	519 (3.0)	566 (2.5)	627 (4.2)
Qatar	202 (3.9)	289 (2.6)	356 (2.4)	424 (2.2)	508 (2.4)
Romania	323 (13.7)	435 (7.0)	497 (6.4)	548 (3.7)	616 (5.6)
Russian Federation	448 (6.1)	522 (4.1)	568 (3.1)	609 (2.6)	667 (4.2)
Scotland	393 (6.0)	478 (2.9)	531 (2.8)	580 (2.9)	649 (3.6)
Singapore	437 (6.2)	520 (3.5)	569 (3.1)	613 (3.8)	668 (3.1)
Slovak Republic	394 (7.8)	483 (2.8)	533 (2.7)	577 (2.4)	635 (2.0)
Slovenia	399 (5.7)	477 (3.3)	528 (1.8)	572 (2.7)	632 (2.2)
South Africa	126 (5.2)	220 (3.8)	298 (4.3)	395 (8.5)	568 (10.0)
Spain	390 (5.7)	466 (3.7)	512 (2.7)	554 (2.4)	614 (4.0)
Sweden	431 (4.1)	508 (2.6)	553 (2.5)	594 (2.6)	652 (4.2)
Trinidad and Tobago	270 (4.7)	372 (8.0)	445 (7.3)	511 (6.4)	596 (5.2)
United States	414 (7.0)	493 (5.4)	541 (3.3)	586 (4.1)	644 (4.8)

SOURCE: IEA Progress in International Reading Literacy Study (PIRLS) 2006

() Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.

Exhibit C.6 Standard Deviations of Achievement in Informational Reading

PIRLS 2006
4th Grade

Countries	Overall		Girls		Boys	
	Mean	Standard Deviation	Mean	Standard Deviation	Mean	Standard Deviation
Austria	536 (2.3)	65 (1.2)	540 (2.7)	63 (1.2)	533 (2.6)	66 (1.6)
Belgium (Flemish)	547 (2.0)	53 (0.9)	550 (2.4)	52 (1.1)	545 (2.2)	54 (1.5)
Belgium (French)	498 (2.8)	68 (1.4)	499 (3.3)	67 (1.7)	497 (3.0)	69 (1.6)
Bulgaria	550 (4.4)	83 (2.3)	558 (4.4)	81 (3.0)	542 (5.2)	84 (2.6)
Canada, Alberta	556 (2.4)	66 (1.3)	559 (2.5)	65 (1.3)	553 (2.8)	66 (1.6)
Canada, British Columbia	554 (2.7)	68 (1.3)	556 (3.3)	67 (1.6)	551 (2.8)	69 (1.6)
Canada, Nova Scotia	539 (2.4)	75 (1.6)	549 (2.8)	71 (1.7)	529 (3.0)	77 (2.2)
Canada, Ontario	552 (3.0)	67 (1.5)	558 (3.3)	65 (1.6)	547 (3.9)	67 (2.1)
Canada, Quebec	533 (2.7)	64 (1.0)	539 (2.7)	61 (1.5)	528 (3.6)	66 (1.5)
Chinese Taipei	538 (1.8)	59 (1.0)	543 (1.8)	56 (1.4)	534 (2.3)	60 (1.3)
Denmark	542 (2.4)	72 (1.4)	547 (2.8)	71 (2.0)	536 (3.1)	72 (1.8)
England	537 (2.5)	84 (1.9)	545 (2.8)	84 (2.1)	529 (2.9)	84 (2.3)
France	526 (2.1)	67 (1.0)	531 (2.7)	66 (1.3)	521 (2.3)	67 (1.2)
Georgia	465 (3.6)	77 (1.7)	474 (3.7)	75 (2.1)	457 (4.4)	78 (2.4)
Germany	544 (2.3)	66 (1.1)	547 (2.4)	65 (1.3)	542 (2.7)	67 (1.8)
Hong Kong SAR	568 (2.3)	56 (1.3)	572 (2.2)	54 (1.4)	564 (2.8)	58 (1.6)
Hungary	541 (3.1)	70 (2.2)	543 (3.7)	69 (2.7)	539 (3.1)	71 (2.5)
Iceland	505 (1.4)	71 (1.1)	514 (1.9)	69 (1.6)	497 (2.1)	73 (1.8)
Indonesia	418 (4.2)	82 (2.0)	427 (4.6)	80 (2.7)	409 (5.0)	83 (2.1)
Iran, Islamic Rep. of	420 (3.1)	91 (1.7)	429 (4.9)	89 (2.2)	412 (3.8)	91 (2.5)
Israel	507 (3.6)	99 (2.5)	513 (4.5)	97 (2.8)	502 (4.1)	100 (2.8)
Italy	549 (2.9)	64 (1.6)	551 (3.1)	63 (2.0)	547 (3.4)	65 (1.9)
Kuwait	327 (4.3)	118 (2.1)	361 (6.3)	109 (2.0)	292 (6.0)	116 (2.6)
Latvia	540 (2.4)	63 (1.3)	553 (2.7)	60 (1.2)	527 (2.7)	62 (1.7)
Lithuania	530 (1.6)	54 (0.9)	539 (2.2)	54 (1.3)	521 (2.0)	54 (0.9)
Luxembourg	557 (1.0)	64 (1.0)	557 (1.2)	64 (1.2)	556 (1.5)	64 (1.1)
Macedonia, Rep. of	450 (4.2)	103 (2.4)	460 (4.6)	103 (3.1)	440 (4.4)	101 (2.6)
Moldova, Rep. of	508 (3.0)	70 (1.5)	514 (3.2)	69 (1.7)	502 (3.5)	71 (1.8)
Morocco	335 (6.0)	105 (3.2)	344 (6.1)	101 (2.9)	326 (6.9)	107 (4.3)
Netherlands	548 (1.6)	50 (0.9)	552 (1.8)	49 (1.0)	543 (1.9)	50 (1.3)
New Zealand	534 (2.2)	84 (1.2)	545 (2.3)	79 (1.6)	522 (3.0)	87 (1.5)
Norway	494 (2.8)	68 (1.6)	502 (3.4)	66 (1.7)	486 (2.8)	70 (2.2)
Poland	515 (2.2)	72 (1.6)	523 (2.3)	72 (2.0)	507 (2.8)	72 (1.8)
Qatar	356 (1.6)	94 (0.9)	374 (2.3)	90 (1.1)	339 (2.3)	94 (1.3)
Romania	487 (4.9)	88 (2.7)	494 (5.2)	87 (3.3)	481 (5.4)	89 (2.8)
Russian Federation	564 (3.3)	66 (2.2)	572 (3.5)	65 (2.0)	555 (3.6)	66 (2.6)
Scotland	527 (2.6)	78 (1.7)	537 (3.6)	76 (2.1)	517 (2.8)	78 (2.2)
Singapore	563 (2.8)	70 (1.6)	572 (2.9)	66 (1.5)	555 (3.3)	73 (2.0)
Slovak Republic	527 (2.6)	73 (1.8)	532 (2.5)	71 (1.8)	522 (3.3)	74 (2.4)
Slovenia	523 (2.4)	71 (1.2)	533 (2.4)	68 (1.7)	514 (3.2)	72 (1.3)
South Africa	316 (5.1)	132 (3.3)	332 (5.8)	132 (3.9)	299 (5.4)	130 (3.4)
Spain	508 (2.9)	68 (1.8)	508 (3.2)	68 (2.3)	508 (3.2)	67 (1.9)
Sweden	549 (2.4)	67 (1.2)	557 (2.9)	65 (1.5)	541 (2.6)	68 (1.7)
Trinidad and Tobago	440 (4.6)	99 (2.2)	455 (5.0)	95 (2.6)	426 (5.5)	101 (2.5)
United States	537 (3.4)	70 (1.3)	542 (3.1)	68 (1.7)	532 (4.4)	72 (1.8)

SOURCE: IEA Progress in International Reading Literacy Study (PIRLS) 2006

() Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.

Exhibit C.7 Percentiles of Achievement in Reading for Retrieval and Straightforward Inferencing
PIRLS 2006
4th Grade

Countries	5th percentile	25th percentile	50th percentile	75th percentile	95th percentile
Austria	428 (3.7)	502 (1.8)	548 (2.0)	589 (1.5)	647 (2.7)
Belgium (Flemish)	444 (3.4)	507 (2.2)	547 (1.9)	585 (2.4)	638 (3.1)
Belgium (French)	380 (4.7)	454 (3.5)	504 (3.0)	550 (2.4)	613 (4.9)
Bulgaria	395 (11.0)	492 (5.0)	542 (4.7)	592 (3.8)	658 (4.6)
Canada, Alberta	432 (3.5)	505 (2.2)	554 (3.5)	602 (3.7)	669 (3.3)
Canada, British Columbia	429 (4.4)	504 (3.4)	553 (2.8)	599 (2.6)	664 (4.9)
Canada, Nova Scotia	400 (5.3)	486 (3.1)	537 (3.5)	585 (3.8)	650 (4.8)
Canada, Ontario	418 (6.4)	496 (2.8)	544 (3.9)	593 (3.0)	661 (2.6)
Canada, Quebec	420 (2.9)	491 (3.8)	535 (2.9)	577 (2.5)	636 (4.3)
Chinese Taipei	420 (5.7)	500 (2.1)	545 (1.9)	587 (1.9)	645 (3.3)
Denmark	409 (6.8)	504 (3.6)	557 (3.6)	605 (3.0)	669 (4.0)
England	373 (6.3)	476 (3.5)	538 (3.7)	595 (4.2)	676 (4.8)
France	407 (4.7)	479 (2.8)	526 (2.0)	570 (2.5)	628 (3.0)
Georgia	353 (5.0)	429 (3.9)	482 (3.9)	530 (3.1)	594 (5.6)
Germany	429 (6.5)	511 (4.6)	559 (2.3)	604 (2.9)	664 (1.9)
Hong Kong SAR	455 (3.7)	521 (3.1)	561 (2.6)	598 (1.6)	649 (3.2)
Hungary	423 (5.3)	500 (3.7)	548 (2.2)	591 (3.2)	650 (2.8)
Iceland	388 (5.0)	470 (2.3)	520 (1.6)	566 (1.5)	629 (4.5)
Indonesia	278 (8.7)	358 (4.4)	412 (4.5)	464 (3.8)	532 (2.7)
Iran, Islamic Rep. of	265 (5.6)	363 (4.5)	433 (3.1)	497 (3.1)	578 (4.3)
Israel	329 (6.0)	450 (5.7)	521 (2.9)	574 (4.5)	642 (3.6)
Italy	425 (6.6)	498 (3.9)	546 (3.6)	592 (3.6)	655 (4.4)
Kuwait	164 (6.8)	259 (4.1)	336 (7.0)	416 (5.9)	510 (3.8)
Latvia	427 (4.2)	491 (2.8)	535 (4.2)	579 (1.8)	638 (3.7)
Lithuania	427 (3.4)	492 (2.3)	534 (2.5)	572 (2.5)	626 (4.5)
Luxembourg	440 (2.9)	518 (2.4)	567 (2.0)	615 (2.1)	681 (2.9)
Macedonia, Rep. of	280 (7.3)	376 (5.7)	452 (5.3)	519 (3.9)	598 (5.8)
Moldova, Rep. of	365 (4.0)	442 (4.6)	491 (3.3)	533 (2.5)	593 (5.0)
Morocco	166 (9.9)	262 (7.5)	335 (5.1)	410 (8.0)	507 (6.0)
Netherlands	448 (3.8)	511 (2.2)	553 (2.3)	592 (2.4)	649 (3.0)
New Zealand	370 (4.4)	470 (1.7)	530 (2.1)	584 (3.1)	656 (3.4)
Norway	375 (4.0)	457 (3.1)	506 (2.8)	552 (3.1)	613 (3.9)
Poland	383 (6.1)	466 (3.1)	521 (3.8)	569 (1.9)	632 (3.9)
Qatar	208 (2.1)	293 (2.1)	360 (1.7)	429 (3.7)	516 (2.6)
Romania	322 (13.4)	437 (6.4)	498 (5.8)	551 (5.3)	619 (3.8)
Russian Federation	439 (6.7)	518 (3.7)	566 (4.0)	610 (3.4)	672 (5.8)
Scotland	377 (8.9)	475 (5.6)	529 (2.7)	579 (2.7)	651 (6.0)
Singapore	408 (4.7)	508 (4.1)	566 (4.2)	619 (3.1)	687 (3.3)
Slovak Republic	390 (8.6)	485 (3.4)	536 (2.7)	580 (2.4)	639 (2.8)
Slovenia	391 (4.9)	473 (3.0)	524 (2.5)	569 (2.2)	629 (4.0)
South Africa	121 (3.8)	212 (4.1)	287 (4.9)	385 (8.4)	559 (14.6)
Spain	389 (7.9)	464 (3.5)	512 (1.2)	556 (3.3)	615 (4.0)
Sweden	430 (5.7)	508 (3.9)	554 (2.4)	597 (2.6)	657 (5.7)
Trinidad and Tobago	262 (14.4)	367 (8.4)	444 (7.0)	512 (5.5)	600 (7.4)
United States	395 (4.4)	483 (3.6)	537 (4.6)	587 (3.7)	652 (4.3)

SOURCE: IEA Progress in International Reading Literacy Study (PIRLS) 2006

() Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.

Exhibit C.8 Standard Deviations of Achievement in Reading for Retrieval and Straightforward Inferencing
PIRLS 2006
4th Grade

Countries	Overall		Girls		Boys	
	Mean	Standard Deviation	Mean	Standard Deviation	Mean	Standard Deviation
Austria	544 (2.1)	66 (1.1)	547 (2.3)	64 (1.4)	541 (2.5)	68 (1.5)
Belgium (Flemish)	545 (1.9)	59 (1.2)	548 (2.3)	59 (1.3)	542 (2.3)	60 (1.7)
Belgium (French)	501 (2.6)	71 (1.3)	504 (2.8)	70 (1.7)	498 (3.0)	72 (1.5)
Bulgaria	538 (4.2)	79 (2.4)	544 (4.3)	76 (2.3)	531 (5.0)	81 (3.4)
Canada, Alberta	553 (2.6)	72 (1.2)	556 (2.7)	71 (1.4)	550 (3.1)	73 (1.5)
Canada, British Columbia	551 (2.8)	71 (1.3)	554 (3.0)	70 (1.5)	547 (3.2)	72 (1.8)
Canada, Nova Scotia	533 (2.2)	76 (1.3)	542 (3.1)	72 (1.7)	525 (2.9)	78 (1.7)
Canada, Ontario	543 (3.1)	73 (1.7)	548 (3.8)	71 (1.9)	538 (3.4)	75 (2.2)
Canada, Quebec	533 (2.7)	65 (1.2)	537 (2.8)	63 (1.5)	528 (3.3)	67 (1.6)
Chinese Taipei	541 (2.0)	68 (1.0)	546 (2.1)	65 (1.2)	536 (2.3)	70 (1.6)
Denmark	551 (2.7)	78 (1.6)	558 (3.1)	78 (2.2)	543 (3.2)	79 (2.0)
England	533 (2.8)	91 (1.8)	543 (3.5)	90 (2.1)	524 (2.8)	90 (2.0)
France	523 (2.1)	67 (0.9)	529 (2.5)	66 (1.2)	518 (2.5)	68 (1.2)
Georgia	478 (3.3)	73 (1.9)	486 (3.5)	71 (2.2)	471 (3.9)	75 (2.2)
Germany	555 (2.6)	72 (1.3)	559 (2.8)	71 (1.8)	550 (3.1)	72 (1.7)
Hong Kong SAR	558 (2.5)	59 (1.4)	562 (2.5)	57 (1.6)	553 (3.0)	61 (1.6)
Hungary	544 (2.8)	69 (1.9)	545 (3.5)	69 (2.1)	542 (2.8)	70 (2.1)
Iceland	516 (1.2)	73 (1.3)	525 (1.7)	70 (2.0)	508 (1.9)	75 (1.6)
Indonesia	409 (3.9)	78 (1.8)	418 (4.0)	76 (2.0)	401 (4.4)	79 (2.1)
Iran, Islamic Rep. of	428 (3.3)	96 (2.4)	435 (5.4)	96 (3.4)	422 (4.0)	96 (2.9)
Israel	507 (3.2)	95 (2.4)	513 (3.9)	92 (2.7)	502 (3.7)	97 (2.6)
Italy	544 (2.8)	70 (1.5)	546 (2.9)	69 (1.9)	542 (3.4)	70 (2.0)
Kuwait	337 (3.9)	107 (1.6)	368 (4.6)	100 (2.1)	306 (5.2)	104 (1.9)
Latvia	534 (2.5)	65 (1.5)	546 (2.7)	63 (1.6)	523 (3.0)	65 (1.9)
Lithuania	531 (1.9)	60 (1.0)	541 (2.2)	59 (1.4)	521 (2.4)	59 (1.1)
Luxembourg	565 (1.2)	73 (1.4)	567 (1.9)	72 (1.4)	564 (1.5)	73 (1.7)
Macedonia, Rep. of	446 (3.8)	98 (2.0)	456 (4.1)	97 (2.3)	437 (4.2)	97 (2.3)
Moldova, Rep. of	486 (2.9)	69 (1.4)	491 (3.0)	67 (1.6)	481 (3.4)	70 (1.7)
Morocco	336 (6.2)	104 (3.5)	345 (7.2)	101 (4.3)	329 (6.5)	106 (4.0)
Netherlands	551 (2.0)	61 (1.1)	553 (2.7)	61 (1.4)	549 (2.3)	61 (1.5)
New Zealand	524 (2.3)	86 (1.5)	535 (2.4)	81 (1.6)	513 (3.1)	90 (2.0)
Norway	502 (2.3)	72 (1.7)	510 (3.1)	70 (2.1)	494 (3.1)	73 (1.8)
Poland	516 (2.4)	76 (1.1)	525 (2.6)	75 (1.7)	507 (2.8)	76 (1.7)
Qatar	361 (1.2)	94 (0.9)	377 (2.0)	90 (1.4)	344 (1.6)	96 (1.4)
Romania	489 (5.2)	89 (3.1)	495 (5.2)	88 (3.9)	483 (5.9)	89 (3.0)
Russian Federation	562 (3.4)	70 (2.0)	570 (3.9)	69 (2.0)	554 (3.4)	70 (2.1)
Scotland	525 (2.8)	82 (1.4)	537 (3.8)	80 (1.8)	512 (3.0)	82 (1.7)
Singapore	560 (3.3)	85 (1.7)	570 (3.6)	81 (1.8)	552 (3.9)	87 (2.0)
Slovak Republic	529 (2.8)	75 (2.2)	534 (2.8)	73 (2.2)	524 (3.6)	76 (2.7)
Slovenia	519 (2.1)	72 (1.5)	527 (2.0)	68 (1.8)	511 (2.8)	74 (1.7)
South Africa	307 (5.3)	131 (3.4)	322 (6.0)	131 (4.0)	291 (5.4)	128 (3.6)
Spain	508 (2.5)	69 (1.6)	509 (2.8)	69 (2.1)	508 (2.7)	69 (1.7)
Sweden	550 (2.4)	69 (1.5)	558 (2.5)	67 (1.7)	544 (2.9)	70 (1.9)
Trinidad and Tobago	438 (4.7)	103 (2.8)	453 (5.0)	98 (3.3)	424 (5.6)	105 (3.2)
United States	532 (3.3)	78 (1.0)	537 (3.2)	75 (1.5)	527 (4.1)	80 (1.6)

SOURCE: IEA Progress in International Reading Literacy Study (PIRLS) 2006

() Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.

Exhibit C.9 Percentiles of Achievement in Reading for Interpreting, Integrating, and Evaluating
PIRLS 2006
4th Grade

Countries	5th percentile	25th percentile	50th percentile	75th percentile	95th percentile
Austria	417 (3.3)	490 (2.9)	534 (2.3)	575 (2.3)	628 (3.3)
Belgium (Flemish)	458 (2.1)	512 (2.6)	548 (1.4)	583 (2.0)	632 (2.1)
Belgium (French)	383 (4.6)	452 (2.7)	499 (2.8)	544 (2.4)	604 (3.6)
Bulgaria	397 (12.0)	504 (7.5)	559 (3.6)	610 (5.0)	679 (6.9)
Canada, Alberta	454 (3.0)	523 (3.2)	566 (2.7)	608 (4.0)	665 (4.1)
Canada, British Columbia	448 (3.0)	520 (3.3)	564 (3.7)	607 (3.4)	666 (4.8)
Canada, Nova Scotia	421 (6.9)	504 (2.0)	552 (1.7)	598 (2.7)	657 (2.3)
Canada, Ontario	450 (5.1)	522 (2.7)	565 (3.8)	607 (3.8)	664 (3.6)
Canada, Quebec	421 (5.3)	492 (3.0)	534 (3.5)	574 (3.2)	627 (3.7)
Chinese Taipei	421 (5.0)	491 (1.9)	533 (1.8)	572 (1.5)	626 (2.6)
Denmark	428 (6.2)	505 (2.7)	548 (2.6)	586 (2.0)	635 (2.5)
England	399 (8.8)	492 (2.4)	548 (2.4)	598 (2.9)	670 (4.7)
France	404 (3.7)	475 (2.5)	521 (2.4)	564 (2.5)	621 (3.3)
Georgia	324 (7.7)	408 (2.7)	466 (3.5)	519 (4.2)	587 (4.2)
Germany	427 (3.8)	503 (2.3)	545 (2.7)	584 (2.7)	636 (2.9)
Hong Kong SAR	463 (5.8)	529 (2.7)	569 (4.1)	607 (3.2)	656 (4.0)
Hungary	436 (5.3)	512 (3.6)	558 (4.0)	600 (2.8)	658 (6.4)
Iceland	386 (3.4)	462 (1.5)	508 (1.4)	548 (2.0)	603 (3.8)
Indonesia	268 (7.7)	350 (6.2)	407 (5.3)	460 (4.0)	531 (3.8)
Iran, Islamic Rep. of	260 (8.2)	355 (3.0)	422 (5.5)	484 (3.4)	562 (3.1)
Israel	331 (13.7)	461 (6.9)	531 (3.5)	584 (2.7)	654 (4.5)
Italy	445 (6.1)	514 (3.3)	557 (2.7)	600 (3.6)	658 (4.1)
Kuwait	++	++	++	++	++
Latvia	446 (4.0)	508 (3.3)	547 (3.0)	586 (1.5)	637 (2.6)
Lithuania	448 (3.3)	506 (2.3)	542 (2.4)	576 (2.2)	625 (3.6)
Luxembourg	438 (3.5)	508 (1.3)	551 (0.9)	592 (1.6)	647 (3.1)
Macedonia, Rep. of	262 (7.0)	363 (3.4)	444 (4.0)	517 (5.4)	601 (5.3)
Moldova, Rep. of	397 (5.8)	473 (4.5)	520 (3.2)	561 (2.6)	620 (3.6)
Morocco	++	++	++	++	++
Netherlands	455 (6.0)	509 (1.6)	544 (2.5)	577 (1.6)	622 (2.3)
New Zealand	392 (3.3)	487 (2.2)	545 (3.0)	595 (2.9)	661 (2.7)
Norway	380 (5.8)	453 (3.9)	499 (3.5)	541 (3.2)	595 (3.0)
Poland	394 (7.7)	474 (3.6)	527 (1.7)	573 (2.2)	633 (2.0)
Qatar	++	++	++	++	++
Romania	320 (13.5)	438 (6.5)	500 (4.1)	554 (4.9)	621 (4.2)
Russian Federation	445 (6.0)	522 (3.4)	567 (4.0)	608 (3.8)	664 (3.9)
Scotland	388 (11.7)	482 (2.9)	533 (4.2)	580 (3.3)	648 (4.7)
Singapore	431 (4.9)	513 (3.6)	561 (3.7)	604 (3.5)	660 (3.7)
Slovak Republic	400 (5.5)	489 (3.8)	539 (3.7)	580 (2.9)	635 (3.1)
Slovenia	404 (4.6)	481 (2.6)	528 (2.5)	569 (2.2)	624 (2.6)
South Africa	++	++	++	++	++
Spain	389 (7.3)	471 (3.5)	520 (3.3)	564 (3.1)	625 (3.1)
Sweden	437 (4.8)	508 (2.2)	551 (2.7)	589 (2.8)	641 (3.3)
Trinidad and Tobago	263 (9.5)	367 (5.6)	443 (5.1)	510 (4.5)	590 (4.4)
United States	427 (5.8)	503 (3.8)	550 (3.9)	593 (3.5)	649 (3.1)

SOURCE: IEA Progress in International Reading Literacy Study (PIRLS) 2006

A plus (+) sign indicates average achievement could not be accurately estimated on the interpreting, integrating, and evaluating scale.

() Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.

Exhibit C.10 **Standard Deviations of Achievement in Reading for Interpreting, Integrating, and Evaluating**PIRLS 2006
4th Grade

Countries	Overall		Girls		Boys	
	Mean	Standard Deviation	Mean	Standard Deviation	Mean	Standard Deviation
Austria	530 (2.2)	64 (1.1)	536 (2.7)	62 (1.4)	524 (2.4)	66 (1.5)
Belgium (Flemish)	547 (1.8)	53 (0.9)	550 (2.4)	52 (1.1)	544 (2.0)	54 (1.1)
Belgium (French)	497 (2.5)	67 (1.2)	500 (2.6)	66 (1.4)	494 (2.9)	67 (1.6)
Bulgaria	553 (4.4)	84 (2.8)	565 (4.4)	80 (2.6)	540 (5.1)	85 (3.6)
Canada, Alberta	564 (2.3)	64 (1.3)	570 (2.5)	64 (1.7)	558 (2.8)	64 (1.4)
Canada, British Columbia	562 (2.5)	65 (1.1)	567 (2.7)	65 (1.5)	557 (3.1)	66 (1.4)
Canada, Nova Scotia	548 (2.0)	71 (1.5)	559 (2.2)	68 (1.7)	537 (2.6)	73 (1.8)
Canada, Ontario	563 (2.9)	64 (0.9)	569 (3.2)	62 (1.2)	556 (3.1)	66 (1.5)
Canada, Quebec	531 (2.7)	62 (1.3)	539 (2.6)	59 (1.5)	523 (3.3)	64 (1.8)
Chinese Taipei	530 (1.9)	62 (1.1)	537 (1.9)	60 (1.2)	523 (2.2)	64 (1.2)
Denmark	542 (2.3)	62 (1.1)	548 (2.8)	62 (1.4)	536 (2.6)	62 (1.6)
England	543 (2.4)	81 (1.9)	552 (2.8)	81 (2.3)	534 (2.7)	81 (1.8)
France	518 (2.3)	66 (1.0)	523 (2.6)	65 (1.5)	513 (2.5)	67 (1.0)
Georgia	461 (3.5)	80 (2.0)	471 (4.1)	78 (2.7)	453 (4.1)	82 (2.4)
Germany	540 (2.2)	65 (1.3)	543 (2.4)	64 (1.6)	537 (2.7)	66 (1.9)
Hong Kong SAR	566 (2.4)	59 (1.5)	572 (2.6)	56 (1.4)	559 (2.8)	61 (1.8)
Hungary	554 (3.0)	68 (1.8)	557 (3.6)	67 (2.1)	551 (3.0)	67 (2.0)
Iceland	503 (1.3)	66 (1.1)	514 (1.9)	62 (1.4)	493 (1.7)	67 (1.5)
Indonesia	404 (4.1)	80 (2.3)	415 (4.1)	78 (2.5)	393 (4.8)	81 (2.7)
Iran, Islamic Rep. of	418 (3.3)	93 (2.1)	425 (5.5)	93 (2.8)	412 (4.2)	92 (2.8)
Israel	516 (3.6)	97 (2.6)	523 (4.3)	95 (3.2)	510 (3.7)	99 (2.6)
Italy	556 (2.9)	65 (1.5)	559 (2.9)	64 (1.6)	552 (3.4)	65 (2.0)
Kuwait	++	++	++	++	++	++
Latvia	545 (1.9)	58 (1.2)	557 (2.3)	56 (1.4)	534 (2.2)	58 (1.7)
Lithuania	540 (1.6)	53 (1.0)	549 (2.2)	52 (1.2)	532 (2.0)	52 (1.4)
Luxembourg	548 (0.9)	63 (0.9)	550 (1.4)	63 (0.9)	546 (1.2)	63 (1.3)
Macedonia, Rep. of	439 (4.0)	105 (2.6)	451 (4.7)	104 (3.0)	428 (4.2)	104 (2.5)
Moldova, Rep. of	515 (2.9)	67 (1.2)	523 (3.1)	66 (1.5)	508 (3.2)	68 (1.5)
Morocco	++	++	++	++	++	++
Netherlands	542 (1.5)	51 (1.1)	547 (2.0)	50 (1.4)	538 (1.8)	51 (1.5)
New Zealand	538 (2.2)	81 (1.3)	550 (2.3)	76 (1.5)	526 (2.9)	85 (1.8)
Norway	495 (2.4)	66 (1.5)	505 (2.5)	64 (1.8)	485 (2.9)	66 (1.7)
Poland	522 (2.3)	72 (1.4)	529 (2.4)	71 (1.8)	514 (3.0)	73 (1.8)
Qatar	++	++	++	++	++	++
Romania	490 (5.3)	91 (3.4)	498 (5.6)	90 (4.2)	482 (5.9)	91 (3.4)
Russian Federation	563 (3.2)	66 (1.9)	569 (3.8)	65 (2.1)	555 (3.2)	67 (2.0)
Scotland	528 (2.6)	77 (1.2)	538 (3.3)	75 (1.7)	519 (2.9)	77 (1.7)
Singapore	556 (2.7)	69 (1.5)	564 (2.8)	66 (1.7)	548 (3.2)	72 (1.7)
Slovak Republic	531 (2.8)	71 (2.2)	538 (2.8)	70 (2.4)	525 (3.4)	72 (2.7)
Slovenia	523 (2.0)	66 (1.0)	534 (2.1)	62 (1.3)	514 (2.4)	68 (1.3)
South Africa	++	++	++	++	++	++
Spain	515 (2.6)	72 (1.8)	519 (2.9)	72 (2.0)	512 (3.0)	71 (2.1)
Sweden	546 (2.2)	62 (1.0)	557 (2.7)	60 (1.3)	537 (2.5)	62 (1.3)
Trinidad and Tobago	437 (5.0)	100 (2.6)	453 (5.5)	95 (3.3)	421 (5.8)	103 (3.1)
United States	546 (3.3)	67 (1.1)	552 (3.0)	65 (1.3)	540 (4.1)	69 (1.5)

SOURCE: IEA Progress in International Reading Literacy Study (PIRLS) 2006

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() Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.

