Sample Implementation

B.1   Introduction

For each country participating in PIRLS 2001, this appendix describes the target population definition (where necessary), the extent of coverage and exclusions, the use of stratification variables, and any deviations from the general PIRLS sample design.

B.2 ARGENTINA

B.2.1 Coverage and Exclusions

School-level exclusions consisted of very small schools (MOS less than 8), and special schools (schools for disabled children and remedial classrooms).

B.2.2 Sample Design

- Explicit stratification by province (province 02 versus all other provinces), for a total of two strata

- Implicit stratification by province (25 provinces), urbanization (rural/urban), and school type (public/private), for a total of 72 strata

- Small schools sampled with equal probabilities (small school definitions differ by province)

Exhibit B.1: Allocation of School Sample in Argentina

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Province 02	30	0	28	2	0	0
All Other Provinces	120	0	105	3	0	12
Total	150	0	133	5	0	12

B.3 BELIZE

B.3.1 Coverage and Exclusions

School-level exclusions consisted of very small schools (MOS less than 10).

B.3.2 Sample Design

- No explicit stratification

- Implicit stratification by school type (public/private), and region (six regions) among public schools, for a total of seven strata

- Schools sampled with equal probabilities

Exhibit B.2: Allocation of School Sample in Belize

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Belize	150	0	119	1	0	30
Total	150	0	119	1	0	30

B.4   BULGARIA

B.4.1   Coverage and Exclusions

School-level exclusions consisted of special schools (educable mentally disabled students, permanent physically or functionally disabled students, students with criminal behavior) and very small schools (MOS less than 8).

B.4.2   Sample Design

- Explicit stratification by school size (large schools, small schools), for a total of two strata

- No implicit stratification

- Schools in the "Small Schools" stratum sampled with equal probabilities

Exhibit B.3: Allocation of School Sample in Bulgaria

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Large Schools	154	0	148	0	0	6
Small Schools	23	1	22	0	0	0
Total	177	1	170	0	0	6

B.5   CANADA

B.5.1   Coverage and Exclusions

Only Ontario and Quebec participated in the study. All other provinces and Territories are excluded from national coverage.

School-level exclusions consisted of private schools, native schools, special schools and very small schools (MOS less than 10) for Ontario; and special schools, Northern schools, non-ministry schools, and very small schools (MOS less than 10) for the province of Quebec.

Within-school exclusions consisted of disabled students and non-native speakers in both provinces.

B.5.2   Sample Design

- Explicit stratification by province (two provinces), language (French/English), school size (very large schools, large schools), for a total of seven strata

- Explicit stratum for one specific school district in Ontario (Rainbow District)

- Implicit stratification by school type in Quebec (public/private), for a total of eight strata

- Very large schools sampled with equal probabilities in both provinces

- Extra sample of schools in order to meet national objectives

Exhibit B.4: Allocation of School Sample in Canada

Explicit Stratum		Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
				Sampled	1st Replacement	2nd Replacement	
Ontario	Rainbow District	2	0	2	0	0	0
	English schools	120	0	102	8	4	6
	Very Large French schools	4	0	3	0	0	1
	Large French schools	76	0	71	0	0	5
Quebec	French schools	100	0	100	0	0	0
	Very Large English schools	4	0	4	0	0	0
	Large English schools	81	0	77	1	0	3
Total		387	0	359	9	4	15

B.6   COLOMBIA

B.6.1   Coverage and Exclusions

School level exclusions consisted of Amazonian and Orinoquian regions (isolated regions), and evening schools (older student population).

Within-school exclusions consisted of disabled students.

B.6.2   Sample Design

• Explicit stratification by urbanization (rural/urban), for a total of two strata

• Implicit stratification by school type (public/non-public), for a total of four strata

• Two classrooms sampled per selected school

• Small schools (MOS less than 20) sampled with equal probabilities

Exhibit B.5: Allocation of School Sample in Colombia

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Rural	59	0	43	12	3	1
Urban	91	0	76	12	1	2
Total	150	0	119	24	4	3

B.7   CYPRUS

B.7.1   Coverage and Exclusions

There were no reported school-level exclusions.

B.7.2   Sample Design

• Explicit stratification by district, for a total of four strata

• Implicit stratification by urbanization (rural/urban), for a total of eight strata

• School sampled with equal probabilities

Exhibit B.6: Allocation of School Sample in Cyprus

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Nicosia	55	0	54	1	0	0
Lanarka	43	0	42	1	0	0
Limassol	36	0	36	0	0	0
Pafos	16	0	16	0	0	0
Total	150	0	148	2	0	0

B.8   CZECH REPUBLIC

B.8.1   Coverage and Exclusions

School-level exclusions consisted of schools for functionally and mentally disabled students, and Polish language schools.

B.8.2   Sample Design

- No explicit stratification

- Implicit stratification by school type (complete basic school/only primary level), for a total of two strata

Exhibit B.7: Allocation of School Sample in Czech Republic

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Czech Republic	150	2	135	6	0	7
Total	150	2	135	6	0	7

B.9   ENGLAND

B.9.1   Coverage and Exclusions

School-level exclusions consisted of special schools and very small schools (MOS less than 8).

Within-school exclusions consisted of special needs pupils within schools.

B.9.2   Sample Design

• Explicit stratification by school size (large/small), for a total of two strata

• Implicit stratification by school type (primary, junior/middle, independent) and school performance (six levels), for a total of 25 strata

• Schools in the "Small Schools" stratum sampled with equal probabilities

Exhibit B.8: Allocation of School Sample in England

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Small Schools	25	0	14	9	0	2
Large Schools	125	0	74	29	5	17
Total	150	0	88	38	5	19

B.10   FRANCE

B.10.1 Coverage and Exclusions

School-level exclusions consisted of overseas territories (TOM), private schools "without contract," French schools in foreign countries (Guyanne and La Reunion), specialized schools, and very small schools (MOS less than 4).

B.10.2 Sample Design

• Explicit stratification by school size (large/small), for a total of two strata

• Implicit stratification by school type (public, public ZEP, private), for a total of six strata

• Schools in the "Small Schools" stratum sampled with equal probabilities

• Two classrooms sampled per selected school

Exhibit B.9: Allocation of School Sample in France

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Large Schools	100	0	92	5	0	3
Small Schools	50	0	48	0	0	2
Total	150	0	140	5	0	5

B.11   GERMANY

B.11.1 Coverage and Exclusions

School-level exclusions consisted of schools for disabled students and very small schools (definition varies by state).

Within-school exclusions consisted of disabled students within schools and non-native speakers.

B.11.2 Sample Design

- Explicit stratification by state (16 states), for a total of 16 strata

- Implicit stratification by school type (primary, special education), for a total of 32 strata

- Small schools sampled with equal probabilities (small schools defined by numbers shown in parentheses in table below)

- Two classrooms sampled per selected school

- Extra sample of schools in order to meet national objectives

Exhibit B.10: Allocation of School Sample in Germany

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Baden-Württemberg (less than 21)	25	0	24	1	0	0
Bayern (less than 24)	5	0	5	0	0	0
Berlin (less than 46)	25	0	24	0	0	1
Branderburg (less than 25)	25	0	25	0	0	0
Bremen (less than 25)	25	0	23	1	0	1
Hamburg (less than 23)	25	0	25	0	0	0
Hessen (less than 23)	2	0	2	0	0	0
Mecklenburg-Vorpommern (less than 19)	3	0	2	0	0	1
Niedersachsen (less than 22)	15	1	14	0	0	0
Nordrhein-Westfalen (less than 24)	35	0	34	0	0	1
Rheinland-Pfalz	8	0	8	0	0	0
Saarland (less than 46)	6	0	6	0	0	0
Sachsen (less than 22)	2	0	2	0	0	0
Sachsen-Anhalt (less than 20)	7	0	7	0	0	0
Schleswig-Holstein (less than 19)	4	0	4	0	0	0
Thüringen (less than 46)	4	0	4	0	0	0
Total	216	1	209	2	0	4

B.12   GREECE

B.12.1   Coverage and Exclusions

School-level exclusions consisted of students taught in foreign languages only, schools for students with special needs, and very small schools (MOS less than 3).

Within-school exclusions consisted of non-native language speakers.

B.12.2   Sample Design

• Explicit stratification by school type (public, private) and school size within public schools (small, large), for a total of three strata

• Implicit stratification by school type (public/private), urbanization (rural/urban) within public schools and region (7 regions) within public urban schools, for a total of 17 strata

• Schools in the "Small Public Schools" stratum sampled with equal probabilities

Exhibit B.11A: Allocation of School Sample in Greece

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Large Public Schools	132	0	110	6	4	12
Small Public Schools	29	0	17	0	2	10
Private Schools	9	0	6	0	0	3
Total	170	0	133	6	6	25

Trends in IEA's Reading Literacy Study

B.12.3 Sample Design

Sampled every second PIRLS school, same target grade

Exhibit B.11B: Allocation of School Sample in Greece (Trend)

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Large Public Schools	66	0	50	5	0	11
Small Public Schools	15	0	11	0	0	4
Private Schools	4	0	2	0	0	2
Total	85	0	63	5	0	17

B.13   HONG KONG, SAR

B.13.1 Coverage and Exclusions

School-level exclusions consisted of international schools and very small schools (MOS less than 9).

B.13.2 Sample Design

- No explicit stratification

- Implicit stratification by gender (boys, girls, mixed), school type (whole day, non-whole day) within mixed schools and district (18 districts) for mixed schools, for a total of 38 strata

Exhibit B.12: Allocation of School Sample in Hong Kong, SAR

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Hong Kong, SAR	150	0	115	29	3	3
Total	150	0	115	29	3	3

B.14   HUNGARY

B.14.1 Coverage and Exclusions

School-level exclusions consisted of very small schools (MOS less than 12).

B.14.2 Sample Design

- Explicit stratification by urbanization (cities and towns, villages) and village size (four levels) within villages, for a total of four strata

- Implicit stratification by urbanization (Budapest, county seats, towns, villages) within cities and towns, counties (19 counties) within cities and towns and regions (seven regions) within villages, for a total of 67 strata

- Extra sample of schools in order to meet national objectives

Exhibit B.13: Allocation of School Sample in Hungary

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Cities and Towns	100	0	98	0	0	2
Villages: 0-999	30	0	29	0	0	1
Villages: 1000-2999	30	0	30	0	0	0
Villages: 3000-4999	30	0	30	0	0	0
Villages: 5000-19999	30	0	29	0	0	1
Total	220	0	216	0	0	4

Trends in IEA's Reading Literacy Study

B.14.3 Target Population

The target population consisted of students in grade 3.

B.14.4 Sample design

• Sampled a 3rd grade class in each participating PIRLS school

• Allocation of school sample unchanged (see table C13 above)

B.15 ICELAND

B.15.1 Coverage and Exclusions

School-level exclusions consisted of very small schools (MOS less than 5).

Within-school exclusions consisted of disabled students.

B.15.2 Sample Design

• Implicit stratification by region (nine regions), for a total of nine strata

• All schools and all classrooms in the sample

Exhibit B.14A: Allocation of School Sample in Iceland

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Iceland	140	0	133	0	0	7
Total	140	0	133	1	0	7

Trends in IEA's Reading Literacy Study

B.15.3 Sample design

• Sampled every second PIRLS school, same target grade

• All classrooms in the sample

Exhibit B.14B: Allocation of School Sample in Iceland (Trend)

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Iceland	70	0	65	0	0	5
Total	70	0	65	0	0	5

B.16 ISLAMIC REPUBLIC OF IRAN

B.16.1 Coverage and Exclusions

School-level exclusions consisted of mentally and physically disabled students

Within-school exclusions consisted of disabled students.

B.16.2 Sample Design

- Explicit stratification by school size (large/small) and school type (public/private), for a total of four strata

- No implicit stratification

- Two classrooms sampled per selected school in the "Large schools" strata

- Schools in the "Small schools" strata sampled with equal probabilities

Exhibit B.15: Allocation of School Sample in Islamic Republic of Iran

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Small Schools, Public	39	0	38	1	0	0
Small Schools, Private	16	0	15	1	0	0
Large Schools, Public	105	0	103	2	0	0
Large Schools, Private	24	0	24	0	0	0
Total	184	0	180	4	0	0

B.17 ISRAEL

B.17.1 Coverage and Exclusions

School-level exclusions consisted of special education schools, extreme Orthodox Jewish schools, East Jerusalem Arab schools teaching the Jordanian curriculum, and very small schools (MOS less than 13).

Within-school exclusions consisted of disabled students.

B.17.2 Sample Design

- Explicit stratification by school type (Hebrew religious, Hebrew secular, Arab), for a total of three strata

- Implicit stratification by socioeconomic status (three levels), for a total of nine strata

- Five sampled Jordanian schools were excluded from data collection. As a result, all Jordanian schools (21 with 2,114 students) were identified on the school sampling frame and added to the excluded population

Exhibit B.16: Allocation of School Sample in Israel

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Hebrew, Religious	40	0	38	0	1	1
Hebrew, Secular	70	0	68	0	0	2
Arab	40	0	38	1	1	0
Total	150	0	144	1	2	3

B.18 ITALY

B.18.1 Coverage and Exclusions

There were no reported school-level exclusions.

Within-school exclusions consisted of disabled students and non-native language speakers.

B.18.2 Sample Design

• No explicit stratification

• Implicit stratification by regions (20 regions) and urbanization (capital city, other towns), for a total of 40 strata

Exhibit B.17A: Allocation of School Sample in Italy

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Italy	184	0	164	15	5	0
Total	184	0	164	15	5	0

Trends in IEA's Reading Literacy Study

B.18.3 Sample Design

• Sampled every second PIRLS school, same target grade

Exhibit B.17B: Allocation of School Sample in Italy (Trend)

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Italy	92	0	81	9	2	0
Total	92	0	81	9	2	0

B.19   KUWAIT

B.19.1 Coverage and Exclusions

There were no reported school-level exclusions.

There were no reported within-school exclusions.

B.19.2 Sample Design

• Explicit stratification by region (five regions) and gender (girls/boys), for a total of ten strata

• No implicit stratification

• Sampled all schools in strata 5, 6, 9 and 10

- Schools sampled with equal probabilities

- Two classrooms sampled per selected school

Exhibit B.18: Allocation of School Sample in Kuwait

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Al-Asima, Boys Schools	15	0	10	0	0	5
Al-Asima, Girls Schools	15	0	15	0	0	0
Hawali, Boys Schools	15	0	10	1	0	4
Hawali, Girls Schools	15	0	15	0	0	0
Al-Farwaniya, Boys Schools	15	0	15	0	0	0
Al-Farwaniya, Girls Schools	15	0	15	0	0	0
Al-Ahmadi, Boys Schools	15	0	13	1	0	1
Al-Ahmadi, Girls Schools	15	0	15	0	0	0
Al-Jahra, Boys Schools	15	0	10	0	0	5
Al-Jahra, Girls Schools	15	0	15	0	0	0
Total	150	0	133	2	0	15

B.20   LATVIA

B.20.1   Coverage and Exclusions

School-level exclusions consisted of special schools, Lithuanian, Polish, Ukrainian and Byelorussian schools, and very small schools (MOS less than 6).

B.20.2   Sample Design

- Explicit stratification by school size (small, large, very large) and language (Latvian, Russian), for a total of five strata

- Implicit stratification by regions (five regions), for a total of 23 strata

- Schools in "Very large schools" and "Small schools" strata sampled with equal probabilities

- Because some schools had the possibility of being sampled twice for each language group, the school weights on the school-level file were re-calibrated to compensate for this effect

- One school sampled twice, once for each language group

Exhibit B.19: Allocation of School Sample in Latvia

| Explicit Stratum | Total Sampled Schools | Ineligible Schools | Participating Schools | | | Non-Participating Schools |
			Sampled	1st Replacement	2nd Replacement	
Small Schools, Latvian	25	1	21	2	0	0
Large Schools, Latvian	73	0	68	4	1	1
Very Large Schools, Latvian	4	0	4	0	0	0
Small Schools, Russian	4	0	3	0	0	1
Large Schools, Russian	42	0	37	1	0	4
Total	148	1	133	7	1	6

B.21   LITHUANIA

B.21.1   Coverage and Exclusions

Coverage in Lithuania was restricted to students whose language of instruction is Lithuanian. School-level exclusions consisted of very small schools (MOS less than 4).

B.21.2   Sample Design

- No explicit stratification

- No implicit stratification

- 49 schools were treated as replacement schools because they had at least one classroom with no chance of being sampled, due to an inaccurate count of classrooms in the school

Exhibit B.20: Allocation of School Sample in Lithuania

| Explicit Stratum | Total Sampled Schools | Ineligible Schools | Participating Schools | | | Non-Participating Schools |
			Sampled	1st Replacement	2nd Replacement	
Lithuania	150	0	84	58	4	4
Total	150	0	84	58	4	4

B.22 REPUBLIC OF MACEDONIA

B.22.1 Coverage and Exclusions

School-level exclusions consisted of special schools and Turkish and Serbian schools.

B.22.2 Sample Design

- Explicit stratification by school size (large, very large), for a total of two strata

- Implicit stratification by language (Albanian/Macedonian) and urbanization (rural/urban), for a total of eight strata

- Schools in "Very large schools" stratum sampled with equal probabilities

- Because some schools had the possibility of being sampled twice for each language group, the school weights on the school-level file were re-calibrated to compensate for this effect

- Eight schools sampled twice, once for each language group

Exhibit B.21: Allocation of School Sample in Republic of Macedonia

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Large Schools	120	0	115	1	0	4
Very Large Schools	30	0	30	0	0	0
Total	150	0	145	1	0	4

B.23 MOLDOVA

B.23.1 Coverage and Exclusions

School-level exclusions consisted of foreign language schools and very small schools (MOS less than 6).

B.23.2 Sample Design

- No explicit stratification

- Implicit stratification by language (Romanian, Russian, mixed) and by region (12 regions), for a total of 14 strata

- Small schools (MOS less than 26) sampled with equal probabilities

- Nine schools were treated as replacement schools because they had at least one classroom with no chance of being sampled, due to an inaccurate count of classrooms in the school

Exhibit B.22: Allocation of School Sample in Moldova

| Explicit Stratum | Total Sampled Schools | Ineligible Schools | Participating Schools | | | Non-Participating Schools |
			Sampled	1st Replacement	2nd Replacement	
Moldova	150	0	133	16	1	0
Total	150	0	133	16	1	0

B.24 MOROCCO

B.24.1 Coverage and Exclusions

School-level exclusions consisted of very small schools (MOS less than 5).

B.24.2 Sample Design

- Explicit stratification by school type (public/ private), for a total of two strata

- Implicit stratification by regions (16 regions) and urbanization (rural/urban), for a total of 33 strata

- Schools in the "Private schools" stratum sampled with equal probabilities

- Small schools (MOS less than 30) sampled with equal probabilities

Exhibit B.23: Allocation of School Sample in Morocco

| Explicit Stratum | Total Sampled Schools | Ineligible Schools | Participating Schools | | | Non-Participating Schools |
			Sampled	1st Replacement	2nd Replacement	
Private Schools	8	0	6	0	0	2
Public Schools	150	0	111	0	0	39
Total	158	0	117	0	0	41

B.25   THE NETHERLANDS

B.25.1 Coverage and Exclusions

School-level exclusions consisted of special schools.

Within-school exclusions consisted of non-native language speakers.

B.25.2 Sample Design

- No explicit stratification

- Implicit stratification by mean student weight (three levels) and by urbanization (five levels), for a total of 15 strata

- Small schools (MOS less than 23) sampled with equal probabilities

Exhibit B.24: Allocation of School Sample in The Netherlands

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
The Netherlands	150	0	80	32	22	16
Total	150	0	80	32	22	16

B.26   NEW ZEALAND

B.26.1 Target Population

Children scheduled to begin secondary school in 2005 (four years of formal schooling)

B.26.2 Coverage and Exclusions

School-level exclusions consisted of correspondence schools, special schools, Rudolph Steiner schools, and very small schools (MOS less than 4).

Within-school exclusions consisted of special needs students.

B.26.3 Sample Design

- Explicit stratification for Maori immersion schools and urbanization (rural/urban), for a total of three strata

- Implicit stratification by socioeconomic status indicator (low, middle, high, NA), for a total of nine strata

Exhibit B.25A: Allocation of School Sample in New Zealand

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Maori Schools	6	0	5	0	1	0
Major Urban Locations	103	0	94	8	1	0
Other Locations	47	0	45	1	1	0
Total	156	0	144	9	3	0

Trends in IEA's Reading Literacy Study

B.26.4 Coverage and Exclusions

Schools in the ''Maori schools'' stratum were excluded from the Trends in IEA's Reading Literacy study because they were not part of the 1991 Reading Literacy study.

B.26.5 Sample Design

Sampled every second PIRLS school, same target grade

Exhibit B.25B: Allocation of School Sample in New Zealand (Trend)

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Major Urban Locations	51	0	46	4	1	0
Other Locations	24	0	21	0	1	2
Total	75	0	67	4	2	2

B.27 NORWAY

B.27.1 Coverage and Exclusions

School-level exclusions consisted of Sami language schools.

Within-school exclusions consisted of non-native language speakers.

B.27.2 Sample Design

- Explicit stratification by language (Bokmal/Nynorsk), by count of classrooms (three levels), by economic status in municipalities (four levels), and by immigration status (two levels), for a total of 44 strata

- Implicit stratification by counties (19 counties), for a total of 1 115 strata

- Two classrooms sampled per selected school

- One explicit stratum had no participating schools, it was added to the exclusion population

- Alternate method for identifying replacement schools

- The jackknife zones ignore the last two levels of explicit stratification to reduce the number of single-school zones

Exhibit B.26: Allocation of School Sample in Norway

Explicit Stratum				Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
						Sampled	1st Replacement	2nd Replacement	
Bokmal	No Class	Low Expenditures	No Immigrants	2	0	2	0	0	0
			Immigrants	2	0	2	0	0	0
		Medium Expenditures	No Immigrants	3	0	2	0	0	1
			Immigrants	3	0	3	0	0	0
		High Expenditures	No Immigrants	2	0	2	0	0	0
			Immigrants	2	0	2	0	0	0
		Four Largest Cities	No Immigrants	2	0	1	0	0	1
			Immigrants	2	0	0	1	0	1
	One Class	Low Expenditures	No Immigrants	3	0	2	1	0	0
			Immigrants	7	0	7	0	0	0
		Medium Expenditures	No Immigrants	3	0	3	0	0	0
			Immigrants	6	0	5	1	0	0
		High Expenditures	No Immigrants	2	0	0	0	1	1
			Immigrants	2	0	2	0	0	0
		Four Largest Cities	No Immigrants	2	0	2	0	0	0
			Immigrants	2	2	0	0	0	0
	Two+ Class	Low Expenditures	No Immigrants	5	0	4	1	0	0
			Immigrants	31	0	25	2	0	4
		Medium Expenditures	No Immigrants	2	0	1	0	0	1
			Immigrants	10	0	7	1	0	2
		High Expenditures	Immigrants	2	0	1	0	0	1
		Four Largest Cities	No Immigrants	2	0	1	1	0	0
			Immigrants	20	0	17	1	0	2
Nynorsk	No Class	Low Expenditures	No Immigrants	2	0	1	0	0	1
			Immigrants	2	0	2	0	0	0
		Medium Expenditures	No Immigrants	2	0	2	0	0	0
			Immigrants	2	0	2	0	0	0
		High Expenditures	No Immigrants	2	0	0	1	0	1
			Immigrants	2	0	1	0	0	1
		Four Largest Cities	No Immigrants	2	0	1	1	0	0
			Immigrants	1	0	1	0	0	0
	One Class	Low Expenditures	No Immigrants	2	0	2	0	0	0
			Immigrants	3	0	2	0	0	1
		Medium Expenditures	No Immigrants	2	0	0	1	0	1
			Immigrants	3	0	3	0	0	0
		High Expenditures	No Immigrants	2	0	1	0	0	1
			Immigrants	2	0	0	2	0	0
		Four Largest Cities	Immigrants	1	0	1	0	0	0
	Two+ Class	Low Expenditures	No Immigrants	2	0	1	0	0	1
			Immigrants	5	0	5	0	0	0
		Medium Expenditures	Immigrants	2	0	1	1	0	0
		High Expenditures	No Immigrants	2	0	1	0	0	1
			Immigrants	2	0	1	0	0	1
		Four Largest Cities	Immigrants	2	0	0	0	1	1
Total				162	2	119	15	2	24

B.28 ROMANIA

B.28.1 Coverage and Exclusions

School-level exclusions consisted of special schools and very small schools (MOS less than 8).

B.28.2 Sample Design

- Explicit stratification by school size (small rural schools, large schools), for a total of two strata

- Implicit stratification by regions (seven regions) and by urbanization (Rural/Urban) within "Large schools" stratum, for a total of 21 strata

- All sampled pseudo-classrooms were ignored, they are added to the excluded population

- Schools in "Small rural schools" stratum sampled with equal probabilities

Exhibit B.27: Allocation of School Sample in Romania

| Explicit Stratum | Total Sampled Schools | Ineligible Schools | Participating Schools | | | Non-Participating Schools |
			Sampled	1st Replacement	2nd Replacement	
Large Schools	120	0	117	0	0	3
Small Rural Schools	30	0	27	0	0	3
Total	150	0	144	0	0	6

B.29 RUSSIAN FEDERATION

B.29.1 Target Population

The target population consisted of students in grade 3 in stream I and of students in grade 4 in stream II.

B.29.2 Coverage and Exclusions

School-level exclusions consisted of schools for students with special needs, schools where the language of instruction is not Russian, and very small schools (MOS less than 6).

Within-school exclusions consisted of disabled students and non-native language speakers.

B.29.3 Sample Design

- Preliminary sampling of 45 regions from a frame of 89 regions, 17 regions large enough to be sampled with certainty

- No explicit stratification (the explicit strata in table C28 correspond to the primary sampling units)

- Implicit stratification by school size (small, large), by urbanization (six levels), and by school type (Primary, Basic, Secondary), for a total of 1,094 strata

- Generally, four schools sampled per region, more schools sampled in some certainty regions

- Schools in "Small Schools" strata sampled with equal probabilities

Exhibit B.28: Allocation of School Sample in Russian Federation

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Sankt-Petersburg*	6	0	6	0	0	0
Archangelsk_obl	4	0	4	0	0	0
Komi	4	0	4	0	0	0
Karelia	4	0	4	0	0	0
Moscow*	10	0	10	0	0	0
Moscow_obl*	8	0	8	0	0	0
Voronezh_obl	4	0	4	0	0	0
Tula_obl	4	0	4	0	0	0
Bransk_obl	4	0	4	0	0	0
Yaroslavl_obl	4	0	4	0	0	0
Tambov_obl	4	0	4	0	0	0
Rasan_obl	4	0	4	0	0	0
Kaluga_obl	4	0	4	0	0	0
Bashkortostan*	8	0	8	0	0	0
Tatarstan*	6	0	6	0	0	0
N_Novgorod_obl*	4	0	4	0	0	0
Samara_obl*	4	0	4	0	0	0
Perm_obl*	4	0	4	0	0	0
Saratov_obl	4	0	4	0	0	0
Orenburg_obl	4	0	4	0	0	0
Udmurtia	4	0	4	0	0	0
Kirov_obl	4	0	4	0	0	0
Pensa_obl	4	0	4	0	0	0
Marii_Al	4	0	4	0	0	0
Krasnodar_kr*	6	0	6	0	0	0
Rostov_obl*	6	0	6	0	0	0
Dagestan*	6	0	6	0	0	0
Stavropol_kr*	4	0	4	0	0	0
Volvograd_obl	4	0	4	0	0	0
Alania	4	0	4	0	0	0
Sverdlovsk_obl*	6	0	6	0	0	0
Chelyabinsk_obl*	4	0	4	0	0	0
Hanty_Mansii_ok	4	0	4	0	0	0
Tumen_obl	4	0	4	0	0	0
Krasnoyarsk_obl*	4	0	4	0	0	0
Kemerovo_obl*	4	0	4	0	0	0
Irkutsk_obl*	4	0	4	0	0	0
Altay_kr	4	0	4	0	0	0
Novosibirsk_obl	4	0	4	0	0	0
Omsk_obl	4	0	3	1	0	0
Chita_obl	4	0	4	0	0	0
Tyva	4	0	4	0	0	0
Primorsk_kr	4	0	4	0	0	0
Saha	4	0	4	0	0	0
Magadan_obl	4	0	4	0	0	0
Total	206	0	205	1	0	0

1   Strata marked with (*) were large enough to be selected with certainty

B.30   SCOTLAND

B.30.1 Coverage and Exclusions

School-level exclusions consisted of special schools, Gaelic schools, and very small schools (MOS less than 7).

Within-school exclusions consisted of special needs students.

B.30.2 Sample Design

- No explicit stratification

- Implicit stratification by Education Authority, for a total of 29 strata

Exhibit B.29: Allocation of School Sample in Scotland

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Scotland	150	0	113	5	0	32
Total	150	0	113	5	0	32

B.31   SINGAPORE

B.31.1 Coverage and Exclusions

School-level exclusions for both PIRLS and the 10-year Trend Study consisted of religious, private, and special (handicapped) schools.

B.31.2 Sample Design

All schools in the sample

Exhibit B.30A: Allocation of School Sample in Singapore

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Singapore	196	0	196	0	0	0
Total	196	0	196	0	0	0

Trends in IEA's Reading Literacy Study

B.31.3 Target Population

The target population consisted of students in grade 3.

B.31.4 Sample Design

Sampled every second PIRLS school

Exhibit B.30B: Allocation of School Sample in Singapore (Trend)

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Singapore	98	0	98	0	0	0
Total	98	0	98	0	0	0

B.32   SLOVAK REPUBLIC

B.32.1 Coverage and Exclusions

School-level exclusions consisted of foreign language schools and very small schools (MOS less than 6).

B.32.2 Sample Design

• No explicit stratification

• Implicit stratification by region (eight regions), by school type (comprehensive, primary), and by language (Slovak, Hungarian), for a total of 26 implicit strata

• Small schools (MOS less than 24) sampled with equal probabilities

Exhibit B.31: Allocation of School Sample in Slovak Republic

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Slovak Republic	150	0	130	19	1	0
Total	150	0	130	19	1	0

B.33   SLOVENIA

B.33.1 Target Population

The target population consisted of students in grade 3.

B.33.2 Coverage and Exclusions

School-level exclusions consisted of schools where the language of instruction is Italian, and very small schools (MOS less than 5).

Within-school exclusions consisted of children taught in English (temporary residents).

B.33.3 Sample Design

- Explicit stratification by school size (very large schools, large schools), for a total of two strata

- Implicit stratification by urbanization (five levels), for a total of ten strata

- Schools in "Very large schools" sampled selected with equal probabilities

Exhibit B.32: Allocation of School Sample in Slovenia

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Large Schools	138	0	136	1	0	1
Very Large Schools	12	0	11	0	0	1
Total	150	0	147	1	0	2

Trends in IEA's Reading Literacy Study

B.33.4 Sample Design

Sampled every second PIRLS school, same target grade

Exhibit B.32B: Allocation of School Sample in Slovenia (Trend)

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Large Schools	69	0	69	0	0	0
Very Large Schools	6	0	6	0	0	0
Total	75	0	75	0	0	0

B.34 SWEDEN

B.34.1 Coverage and Exclusions

School-level exclusions consisted of special schools for disabled students, Non-Swedish speaking schools, hospital and refugee schools, and very small schools (MOS less than 9 in public schools and MOS less than 5 in independent schools).

Within-school exclusions consisted of disabled students and non-native language speakers.

B.34.2 Sample Design

- Explicit stratification by school composition (grade 4 only, grades 3 and 4), school type (public/independent), and school size (large, very large) within independent schools, for a total of six strata

- No implicit stratification

- Schools in "Very Large Schools" stratum sampled with equal probabilities

- Small schools sampled with equal probabilities

- All classrooms sampled in selected schools

Exhibit B.33A: Allocation of School Sample in Sweden

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Independent, Grade 4 Only, Very Large Schools	1	0	1	0	0	0
Independent, Both Grades, Very Large Schools	2	0	2	0	0	0
Independent, Grade 4 Only	2	0	2	0	0	0
Independent, Both Grades	25	1	20	2	0	2
Public, Grade 4 Only	12	0	12	0	0	0
Public, Both Grades	108	0	105	2	0	1
Total	150	1	142	4	0	3

Trends in IEA's Reading Literacy Study

B.34.3 Target Population

The target population consisted of students in grade 3.

B.34.4 Sample Design

- Independent sample of 150 schools, but same sample design as in PIRLS (there is no overlap between PIRLS and Trends in IEA's Reading Literacy Study school samples)

Exhibit B.33B: Allocation of School Sample in Sweden (Trend)

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Independent, Both grades, Very Large Schools	2	0	2	0	0	0
Independent, Grade 3 Only	3	0	3	0	0	0
Independent, Both Grades	25	0	20	3	0	2
Public, Grade 3 Only	12	0	10	2	0	0
Public, Both Grades	108	0	107	1	0	0
Total	150	0	142	6	0	2

B.35   TURKEY

B.35.1 Coverage and Exclusions

School-level exclusions consisted of schools for handicapped, schools with combined classes, schools with a bussing system (remote), and very small schools (MOS less than 16).

B.35.2 Sample Design

- Explicit stratification by school type (private, public), for a total of two strata

- Implicit stratification by region (81 regions) within public schools, for a total of 82 strata

- Schools in the "Private schools" stratum sampled with equal probabilities

- Small schools (MOS less than 40) in the "Public Schools" stratum sampled with equal probabilities

Exhibit B.34: Allocation of School Sample in Turkey

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Private Schools	4	0	4	0	0	0
Public Schools	150	0	150	0	0	0
Total	154	0	154	0	0	0

B.36   UNITED STATES

B.36.1 Coverage and Exclusions

School-level exclusions consisted of students in special education schools, students in vocational/technical schools, and students in alternative schools.

Within-school exclusions consisted of disabled students unable to take the assessment and English language learners.

B.36.2 Sample Design

- An additional sampling stage was added prior to sampling schools. Fifty-two PSUs were drawn at this stage following systematic probability proportional to size sampling procedures. Extremely large PSUs were selected with certainty. Sorting of schools within PSUs was done prior to sample the schools.

- Explicit stratification of PSUs by area status (metropolitan/non-metropolitan) within the non-certainty PSUs

- Implicit stratification of PSUs by 1990-1997 change in population, percent minorities, percent unemployed, and per capita income within the non-certainty PSUs

- Further explicit stratification of schools within sampled PSUs by school type (public/private)

- Further implicit stratification of schools within sampled PSUs by PSU and minority status (high, low) for public schools, and by religious denomination (Catholic, other religions, non-sectarian), and PSU for private schools

- The stratification shown in the table below was used for the computation of school participation adjustments (the last two levels of stratification were combined in order to derive the jackknife zones).

Exhibit B.35A: Allocation of School Sample in United States

| Explicit Stratum | Total Sampled Schools | Ineligible Schools | Participating Schools | | | Non-Participating Schools |
			Sampled	1st Replacement	2nd Replacement	
Public, Certainty PSUs	46	0	28	11	2	5
Private, Certainty PSUs	20	0	15	4	0	1
Public, Non-Certainty PSUs	104	0	63	16	9	16
Private, Non-Certainty PSUs	30	0	19	4	3	4
Total	200	0	125	35	14	26

Trends in IEA's Reading Literacy Study

B.36.3 Sample Design

Sampled every second PIRLS school, same target grade

Exhibit B.35B: Allocation of School Sample in United States (Trend)

| Explicit Stratum | Total Sampled Schools | Ineligible Schools | Participating Schools | | | Non-Participating Schools |
			Sampled	1st Replacement	2nd Replacement	
Public, Certainty PSUs	23	0	16	4	0	3
Private, Certainty PSUs	10	0	3	5	1	1
Public, Non-Certainty PSUs	52	0	26	12	6	8
Private, Non-Certainty PSUs	15	0	9	3	0	3
Total	100	0	54	24	7	15