

PROGRESS IN INTERNATIONAL READING LITERACY STUDY

# PIRLS

# S4

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## PIRLS 2006 User Guide Supplement 4 for the International Database



**TIMSS & PIRLS**  
International Study Center  
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# Supplement 4

## *Sampling Stratification Information*

### **S4.1 Overview**

This supplement contains documentation on the explicit and implicit stratification variables included in the PIRLS 2006 data files. The explicit strata are smaller sampling frames, created from the initial sampling frame, from which samples of schools and classes were drawn. The implicit strata are nested within the explicit strata, and were used for sorting the sampling frame prior to the systematic sampling of the units. Details of the PIRLS 2006 sample design and implementation are available in the *PIRLS 2006 Technical Report*.

### **S4.2 Stratification Variable**

Explicit and implicit stratification variables are named IDSTRATE and IDSTRATI, respectively. Country-specific codes and labels are provided for each stratum.

### **S4.3 Notes and Considerations for Stratification Variables**

The stratification is based on information provided by each country in their school sampling frames. These sampling frames were provided well in advance of data collection (sometimes 2 years prior). Thus, the stratification information may no longer be appropriate or available when consulting more current sources and differences in a school's status may occur.

**Exhibit S4.1 Sampling Stratification Information**

Country	IDSTRATE	Explicit Stratum Label	IDSTRATI	Implicit Stratum Label
Austria	.A	Not Available	.A	Not Available
Belgium (Flemish)	1	Flemish Community	1	Antwerpen
Belgium (Flemish)	1	Flemish Community	2	Limburg
Belgium (Flemish)	1	Flemish Community	3	Oost-Vlaanderen
Belgium (Flemish)	1	Flemish Community	4	Vlaams-Brabant and Brussels
Belgium (Flemish)	1	Flemish Community	5	West-Vlaanderen
Belgium (Flemish)	2	Public (Subsidized)	1	Antwerpen
Belgium (Flemish)	2	Public (Subsidized)	2	Limburg
Belgium (Flemish)	2	Public (Subsidized)	3	Oost-Vlaanderen
Belgium (Flemish)	2	Public (Subsidized)	4	Vlaams-Brabant and Brussels
Belgium (Flemish)	2	Public (Subsidized)	5	West-Vlaanderen
Belgium (Flemish)	3	Private (Subsidized)	1	Antwerpen
Belgium (Flemish)	3	Private (Subsidized)	2	Limburg
Belgium (Flemish)	3	Private (Subsidized)	3	Oost-Vlaanderen
Belgium (Flemish)	3	Private (Subsidized)	4	Vlaams-Brabant and Brussels
Belgium (Flemish)	3	Private (Subsidized)	5	West-Vlaanderen
Belgium (French)	.A	Not Available	.A	Not Available
Bulgaria	1	Burgas	1	Urban
Bulgaria	1	Burgas	2	Rural
Bulgaria	2	Haskovo	1	Urban
Bulgaria	2	Haskovo	2	Rural
Bulgaria	3	Lovech	1	Urban
Bulgaria	3	Lovech	2	Rural
Bulgaria	4	Montana	1	Urban
Bulgaria	4	Montana	2	Rural
Bulgaria	5	Plovdiv	1	Urban
Bulgaria	5	Plovdiv	2	Rural
Bulgaria	6	Ruse	1	Urban
Bulgaria	6	Ruse	2	Rural
Bulgaria	7	Sofia City	1	Urban
Bulgaria	8	Sofia Region	1	Urban
Bulgaria	8	Sofia Region	2	Rural
Bulgaria	9	Varna	1	Urban
Bulgaria	9	Varna	2	Rural
Canada, Alberta	1	None	1	Charter
Canada, Alberta	1	None	2	Francophone
Canada, Alberta	1	None	3	Private
Canada, Alberta	1	None	4	Public
Canada, Alberta	1	None	5	Separate
Canada, British Columbia	1	None	1	Public
Canada, British Columbia	1	None	2	Independent
Canada, Nova Scotia	.A	Not Available	.A	Not Available
Canada, Ontario	1	English	1	Public
Canada, Ontario	1	English	2	Catholic
Canada, Ontario	1	English	3	Private
Canada, Ontario	2	French	1	Public
Canada, Ontario	2	French	2	Catholic
Canada, Ontario	2	French	3	Private
Canada, Quebec	1	English	1	Public
Canada, Quebec	1	English	2	Private
Canada, Quebec	2	French	1	Public
Canada, Quebec	2	French	2	Private
Chinese Taipei	1	North	1	None
Chinese Taipei	2	Middle	1	None
Chinese Taipei	3	South	1	None
Chinese Taipei	4	East	1	None
Denmark	1	None	1	None
England	1	Low Key Stage 2 Perf.	1	Primary

**Exhibit S4.1 Sampling Stratification Information (continued)**

Country	IDSTRATE	Explicit Stratum Label	IDSTRATI	Implicit Stratum Label
England	1	Low Key Stage 2 Perf.	2	Junior
England	1	Low Key Stage 2 Perf.	3	Middle
England	1	Low Key Stage 2 Perf.	4	Independent
England	2	Low/Mid Key Stage 2 Perf.	1	Primary
England	2	Low/Mid Key Stage 2 Perf.	2	Junior
England	2	Low/Mid Key Stage 2 Perf.	3	Middle
England	2	Low/Mid Key Stage 2 Perf.	4	Independent
England	3	Mid Key Stage 2 Perf.	1	Primary
England	3	Mid Key Stage 2 Perf.	2	Junior
England	3	Mid Key Stage 2 Perf.	3	Middle
England	3	Mid Key Stage 2 Perf.	4	Independent
England	4	Mid/High Key Stage 2 Perf.	1	Primary
England	4	Mid/High Key Stage 2 Perf.	2	Junior
England	4	Mid/High Key Stage 2 Perf.	3	Middle
England	4	Mid/High Key Stage 2 Perf.	4	Independent
England	5	High Key Stage 2 Perf.	1	Primary
England	5	High Key Stage 2 Perf.	2	Junior
England	5	High Key Stage 2 Perf.	3	Middle
England	5	High Key Stage 2 Perf.	4	Independent
England	6	Unknown Key Stage 2 Perf.	1	Primary
England	6	Unknown Key Stage 2 Perf.	2	Junior
England	6	Unknown Key Stage 2 Perf.	4	Independent
France	1	Large	1	Public - No Priority Education Zone
France	1	Large	2	Private
France	1	Large	3	Public - Priority Education Zone
France	2	Small	1	Public - No Priority Education Zone
France	2	Small	2	Private
France	2	Small	3	Public - Priority Education Zone
Georgia	1	Kvemo Kartli	1	Urban
Georgia	1	Kvemo Kartli	2	Rural
Georgia	2	Adjara	1	Urban
Georgia	2	Adjara	2	Rural
Georgia	3	Apkazeti	1	Urban
Georgia	4	Guria	1	Urban
Georgia	4	Guria	2	Rural
Georgia	5	Imereti	1	Urban
Georgia	5	Imereti	2	Rural
Georgia	6	Kaxeti	1	Urban
Georgia	6	Kaxeti	2	Rural
Georgia	7	Mckheta-Tianeti	1	Urban
Georgia	7	Mckheta-Tianeti	2	Rural
Georgia	8	Racha-Lechkhumi	1	Urban
Georgia	8	Racha-Lechkhumi	2	Rural
Georgia	9	Samckhe-Javakheti	1	Urban
Georgia	9	Samckhe-Javakheti	2	Rural
Georgia	10	Shida Kartli	1	Urban
Georgia	10	Shida Kartli	2	Rural
Georgia	11	Tbilisi	1	Urban
Georgia	12	Samegrelo-Zemo Svaneti	1	Urban
Georgia	12	Samegrelo-Zemo Svaneti	2	Rural
Germany	.A	Not Available	.A	Not Available
Hong Kong SAR	1	Aided - AM	1	Low Perf. Regions
Hong Kong SAR	1	Aided - AM	2	Medium Perf. Regions
Hong Kong SAR	1	Aided - AM	3	High Perf. Regions
Hong Kong SAR	2	Aided - PM	1	Low Perf. Regions
Hong Kong SAR	2	Aided - PM	2	Medium Perf. Regions
Hong Kong SAR	2	Aided - PM	3	High Perf. Regions
Hong Kong SAR	3	Aided - Whole Day	1	Low Perf. Regions

**Exhibit S4.1 Sampling Stratification Information** (continued)

Country	IDSTRATE	Explicit Stratum Label	IDSTRATI	Implicit Stratum Label
Hong Kong SAR	3	Aided - Whole Day	2	Medium Perf. Regions
Hong Kong SAR	3	Aided - Whole Day	3	High Perf. Regions
Hong Kong SAR	4	Private	1	Low Perf. Regions
Hong Kong SAR	4	Private	2	Medium Perf. Regions
Hong Kong SAR	4	Private	3	High Perf. Regions
Hong Kong SAR	5	Government	1	Low Perf. Regions
Hong Kong SAR	5	Government	2	Medium Perf. Regions
Hong Kong SAR	5	Government	3	High Perf. Regions
Hong Kong SAR	6	Direct Subsidies	1	Low Perf. Regions
Hong Kong SAR	6	Direct Subsidies	2	Medium Perf. Regions
Hong Kong SAR	6	Direct Subsidies	3	High Perf. Regions
Hungary	1	Capital	4	Közép Magyarország
Hungary	2	Country Town	1	Dél Alföld
Hungary	2	Country Town	2	Dél Dunántúl
Hungary	2	Country Town	3	Közép Dunántúl
Hungary	2	Country Town	5	Nyugat Dunántúl
Hungary	2	Country Town	6	Észak Alföld
Hungary	2	Country Town	7	Észak Magyarország
Hungary	3	Town	1	Dél Alföld
Hungary	3	Town	2	Dél Dunántúl
Hungary	3	Town	3	Közép Dunántúl
Hungary	3	Town	4	Közép Magyarország
Hungary	3	Town	5	Nyugat Dunántúl
Hungary	3	Town	6	Észak Alföld
Hungary	3	Town	7	Észak Magyarország
Hungary	4	Rural Area	1	Dél Alföld
Hungary	4	Rural Area	2	Dél Dunántúl
Hungary	4	Rural Area	3	Közép Dunántúl
Hungary	4	Rural Area	4	Közép Magyarország
Hungary	4	Rural Area	5	Nyugat Dunántúl
Hungary	4	Rural Area	6	Észak Alföld
Hungary	4	Rural Area	7	Észak Magyarország
Iceland	1	None	1	Regions 1 and 2
Iceland	1	None	2	Region 3
Iceland	1	None	3	Region 4
Iceland	1	None	4	Region 5
Iceland	1	None	5	Region 6
Iceland Grade 5	1	None	1	Regions 1 and 2
Iceland Grade 5	1	None	2	Region 3
Iceland Grade 5	1	None	3	Region 4
Iceland Grade 5	1	None	4	Region 5
Iceland Grade 5	1	None	5	Region 6
Indonesia	1	General Primary - Public	1	Western Indonesia - Village
Indonesia	1	General Primary - Public	2	Western Indonesia - Town
Indonesia	1	General Primary - Public	3	Central Java - Village
Indonesia	1	General Primary - Public	4	Central Java - Town
Indonesia	1	General Primary - Public	5	Eastern Java and Banten - Village
Indonesia	1	General Primary - Public	6	Eastern Java and Banten - Town
Indonesia	1	General Primary - Public	7	Central Indonesia - Village
Indonesia	1	General Primary - Public	8	Central Indonesia - Town
Indonesia	1	General Primary - Public	9	Eastern Indonesia - Village
Indonesia	1	General Primary - Public	10	Eastern Indonesia - Town
Indonesia	2	General Primary - Private	1	Western Indonesia - Village
Indonesia	2	General Primary - Private	2	Western Indonesia - Town
Indonesia	2	General Primary - Private	3	Central Java - Village
Indonesia	2	General Primary - Private	4	Central Java - Town
Indonesia	2	General Primary - Private	5	Eastern Java and Banten - Village
Indonesia	2	General Primary - Private	6	Eastern Java and Banten - Town

**Exhibit S4.1 Sampling Stratification Information** (continued)

Country	IDSTRATE	Explicit Stratum Label	IDSTRATI	Implicit Stratum Label
Indonesia	2	General Primary - Private	7	Central Indonesia - Village
Indonesia	2	General Primary - Private	8	Central Indonesia - Town
Indonesia	2	General Primary - Private	9	Eastern Indonesia - Village
Indonesia	2	General Primary - Private	10	Eastern Indonesia - Town
Indonesia	3	Islamic Primary - Public	1	Western Indonesia - Village
Indonesia	3	Islamic Primary - Public	2	Western Indonesia - Town
Indonesia	3	Islamic Primary - Public	3	Central Java - Village
Indonesia	3	Islamic Primary - Public	4	Central Java - Town
Indonesia	3	Islamic Primary - Public	5	Eastern Java and Banten - Village
Indonesia	3	Islamic Primary - Public	6	Eastern Java and Banten - Town
Indonesia	3	Islamic Primary - Public	7	Central Indonesia - Village
Indonesia	3	Islamic Primary - Public	8	Central Indonesia - Town
Indonesia	3	Islamic Primary - Public	9	Eastern Indonesia - Village
Indonesia	3	Islamic Primary - Public	10	Eastern Indonesia - Town
Indonesia	4	Islamic Primary - Private	1	Western Indonesia - Village
Indonesia	4	Islamic Primary - Private	2	Western Indonesia - Town
Indonesia	4	Islamic Primary - Private	3	Central Java - Village
Indonesia	4	Islamic Primary - Private	4	Central Java - Town
Indonesia	4	Islamic Primary - Private	5	Eastern Java and Banten - Village
Indonesia	4	Islamic Primary - Private	6	Eastern Java and Banten - Town
Indonesia	4	Islamic Primary - Private	7	Central Indonesia - Village
Indonesia	4	Islamic Primary - Private	8	Central Indonesia - Town
Indonesia	4	Islamic Primary - Private	9	Eastern Indonesia - Village
Indonesia	4	Islamic Primary - Private	10	Eastern Indonesia - Town
Iran, Islamic Rep. of	1	Public - Boys	1	East Azarbaijan
Iran, Islamic Rep. of	1	Public - Boys	2	West Azarbaijan
Iran, Islamic Rep. of	1	Public - Boys	3	Ardabil
Iran, Islamic Rep. of	1	Public - Boys	4	Esfahan
Iran, Islamic Rep. of	1	Public - Boys	5	Ilam
Iran, Islamic Rep. of	1	Public - Boys	6	Busher
Iran, Islamic Rep. of	1	Public - Boys	7	Chahar Mahal and Bakhtiari
Iran, Islamic Rep. of	1	Public - Boys	8	Khorasan
Iran, Islamic Rep. of	1	Public - Boys	9	Khuzestan
Iran, Islamic Rep. of	1	Public - Boys	10	Zanjan
Iran, Islamic Rep. of	1	Public - Boys	11	Semnan
Iran, Islamic Rep. of	1	Public - Boys	12	Sistan and Baluchistan
Iran, Islamic Rep. of	1	Public - Boys	13	Tehran City
Iran, Islamic Rep. of	1	Public - Boys	14	Tehran Province
Iran, Islamic Rep. of	1	Public - Boys	15	Fars
Iran, Islamic Rep. of	1	Public - Boys	16	Qazvin
Iran, Islamic Rep. of	1	Public - Boys	17	Qom
Iran, Islamic Rep. of	1	Public - Boys	18	Kurdistan
Iran, Islamic Rep. of	1	Public - Boys	19	Kerman
Iran, Islamic Rep. of	1	Public - Boys	20	Kermanshah
Iran, Islamic Rep. of	1	Public - Boys	22	Golestan
Iran, Islamic Rep. of	1	Public - Boys	23	Gilan
Iran, Islamic Rep. of	1	Public - Boys	24	Lorestan
Iran, Islamic Rep. of	1	Public - Boys	25	Mazandaran
Iran, Islamic Rep. of	1	Public - Boys	26	Markazi
Iran, Islamic Rep. of	1	Public - Boys	27	Hormozgan
Iran, Islamic Rep. of	1	Public - Boys	28	Hamadan
Iran, Islamic Rep. of	1	Public - Boys	29	Yazd
Iran, Islamic Rep. of	2	Public - Girls	1	East Azarbaijan
Iran, Islamic Rep. of	2	Public - Girls	2	West Azarbaijan
Iran, Islamic Rep. of	2	Public - Girls	3	Ardabil
Iran, Islamic Rep. of	2	Public - Girls	4	Esfahan
Iran, Islamic Rep. of	2	Public - Girls	6	Busher
Iran, Islamic Rep. of	2	Public - Girls	7	Chahar Mahal and Bakhtiari

**Exhibit S4.1 Sampling Stratification Information** (continued)

Country	IDSTRATE	Explicit Stratum Label	IDSTRATI	Implicit Stratum Label
Iran, Islamic Rep. of	2	Public - Girls	8	Khorasan
Iran, Islamic Rep. of	2	Public - Girls	9	Khuzestan
Iran, Islamic Rep. of	2	Public - Girls	10	Zanjan
Iran, Islamic Rep. of	2	Public - Girls	11	Semnan
Iran, Islamic Rep. of	2	Public - Girls	12	Sistan and Baluchistan
Iran, Islamic Rep. of	2	Public - Girls	13	Tehran City
Iran, Islamic Rep. of	2	Public - Girls	14	Tehran Province
Iran, Islamic Rep. of	2	Public - Girls	15	Fars
Iran, Islamic Rep. of	2	Public - Girls	16	Qazvin
Iran, Islamic Rep. of	2	Public - Girls	17	Qom
Iran, Islamic Rep. of	2	Public - Girls	18	Kurdistan
Iran, Islamic Rep. of	2	Public - Girls	19	Kerman
Iran, Islamic Rep. of	2	Public - Girls	20	Kermanshah
Iran, Islamic Rep. of	2	Public - Girls	22	Golestan
Iran, Islamic Rep. of	2	Public - Girls	23	Gilan
Iran, Islamic Rep. of	2	Public - Girls	24	Lorestan
Iran, Islamic Rep. of	2	Public - Girls	25	Mazandaran
Iran, Islamic Rep. of	2	Public - Girls	26	Markazi
Iran, Islamic Rep. of	2	Public - Girls	27	Hormozgan
Iran, Islamic Rep. of	2	Public - Girls	28	Hamadan
Iran, Islamic Rep. of	2	Public - Girls	29	Yazd
Iran, Islamic Rep. of	3	Public - Mixed	1	East Azarbaijan
Iran, Islamic Rep. of	3	Public - Mixed	2	West Azarbaijan
Iran, Islamic Rep. of	3	Public - Mixed	3	Ardabil
Iran, Islamic Rep. of	3	Public - Mixed	4	Esfahan
Iran, Islamic Rep. of	3	Public - Mixed	5	Ilam
Iran, Islamic Rep. of	3	Public - Mixed	7	Chahar Mahal and Bakhtiari
Iran, Islamic Rep. of	3	Public - Mixed	8	Khorasan
Iran, Islamic Rep. of	3	Public - Mixed	9	Khuzestan
Iran, Islamic Rep. of	3	Public - Mixed	10	Zanjan
Iran, Islamic Rep. of	3	Public - Mixed	11	Semnan
Iran, Islamic Rep. of	3	Public - Mixed	12	Sistan and Baluchistan
Iran, Islamic Rep. of	3	Public - Mixed	15	Fars
Iran, Islamic Rep. of	3	Public - Mixed	16	Qazvin
Iran, Islamic Rep. of	3	Public - Mixed	18	Kurdistan
Iran, Islamic Rep. of	3	Public - Mixed	19	Kerman
Iran, Islamic Rep. of	3	Public - Mixed	20	Kermanshah
Iran, Islamic Rep. of	3	Public - Mixed	21	Kohkiluyeh and Buyer Ahmad
Iran, Islamic Rep. of	3	Public - Mixed	22	Golestan
Iran, Islamic Rep. of	3	Public - Mixed	23	Gilan
Iran, Islamic Rep. of	3	Public - Mixed	24	Lorestan
Iran, Islamic Rep. of	3	Public - Mixed	25	Mazandaran
Iran, Islamic Rep. of	3	Public - Mixed	26	Markazi
Iran, Islamic Rep. of	3	Public - Mixed	27	Hormozgan
Iran, Islamic Rep. of	3	Public - Mixed	28	Hamadan
Iran, Islamic Rep. of	4	Private - Boys	1	East Azarbaijan
Iran, Islamic Rep. of	4	Private - Boys	2	West Azarbaijan
Iran, Islamic Rep. of	4	Private - Boys	4	Esfahan
Iran, Islamic Rep. of	4	Private - Boys	5	Ilam
Iran, Islamic Rep. of	4	Private - Boys	8	Khorasan
Iran, Islamic Rep. of	4	Private - Boys	9	Khuzestan
Iran, Islamic Rep. of	4	Private - Boys	12	Sistan and Baluchistan
Iran, Islamic Rep. of	4	Private - Boys	13	Tehran City
Iran, Islamic Rep. of	4	Private - Boys	14	Tehran Province
Iran, Islamic Rep. of	4	Private - Boys	15	Fars
Iran, Islamic Rep. of	4	Private - Boys	17	Qom
Iran, Islamic Rep. of	4	Private - Boys	19	Kerman
Iran, Islamic Rep. of	4	Private - Boys	20	Kermanshah



**Exhibit S4.1 Sampling Stratification Information** (continued)

Country	IDSTRATE	Explicit Stratum Label	IDSTRATI	Implicit Stratum Label
Iran, Islamic Rep. of	4	Private - Boys	22	Golestan
Iran, Islamic Rep. of	4	Private - Boys	23	Gilan
Iran, Islamic Rep. of	4	Private - Boys	24	Lorestan
Iran, Islamic Rep. of	4	Private - Boys	25	Mazandaran
Iran, Islamic Rep. of	4	Private - Boys	26	Markazi
Iran, Islamic Rep. of	4	Private - Boys	28	Hamadan
Iran, Islamic Rep. of	4	Private - Boys	29	Yazd
Iran, Islamic Rep. of	5	Private - Girls	2	West Azarbaijan
Iran, Islamic Rep. of	5	Private - Girls	4	Esfahan
Iran, Islamic Rep. of	5	Private - Girls	8	Khorasan
Iran, Islamic Rep. of	5	Private - Girls	9	Khuzestan
Iran, Islamic Rep. of	5	Private - Girls	12	Sistan and Baluchistan
Iran, Islamic Rep. of	5	Private - Girls	13	Tehran City
Iran, Islamic Rep. of	5	Private - Girls	14	Tehran Province
Iran, Islamic Rep. of	5	Private - Girls	15	Fars
Iran, Islamic Rep. of	5	Private - Girls	19	Kerman
Iran, Islamic Rep. of	5	Private - Girls	22	Golestan
Iran, Islamic Rep. of	5	Private - Girls	24	Lorestan
Iran, Islamic Rep. of	5	Private - Girls	25	Mazandaran
Iran, Islamic Rep. of	5	Private - Girls	27	Hormozgan
Iran, Islamic Rep. of	5	Private - Girls	29	Yazd
Israel	1	Hebrew Religious	1	Low SES
Israel	1	Hebrew Religious	2	Medium SES
Israel	1	Hebrew Religious	3	High SES
Israel	2	Hebrew Secular	1	Low SES
Israel	2	Hebrew Secular	2	Medium SES
Israel	2	Hebrew Secular	3	High SES
Israel	3	Arab Secular	1	Low SES
Israel	3	Arab Secular	2	Medium SES
Israel	3	Arab Secular	3	High SES
Italy	1	None	1	Valle d'Aosta - Small Town
Italy	1	None	2	Valle d'Aosta - Province Capital Town
Italy	1	None	3	Piemonte - Small Town
Italy	1	None	4	Piemonte - Province Capital Town
Italy	1	None	5	Liguria - Small Town
Italy	1	None	6	Liguria - Province Capital Town
Italy	1	None	7	Lombardia - Small Town
Italy	1	None	8	Lombardia - Province Capital Town
Italy	1	None	9	Trentino-Alto-Adige - Small Town
Italy	1	None	10	Trentino-Alto-Adige - Province Capital Town
Italy	1	None	11	Veneto - Small Town
Italy	1	None	12	Veneto - Province Capital Town
Italy	1	None	13	Friuli Venezia Giulia - Small Town
Italy	1	None	14	Friuli Venezia Giulia - Province Capital Town
Italy	1	None	15	Emilia Romania - Small Town
Italy	1	None	16	Emilia Romania - Province Capital Town
Italy	1	None	17	Toscana - Small Town
Italy	1	None	18	Toscana - Province Capital Town
Italy	1	None	19	Umbria - Small Town
Italy	1	None	20	Umbria - Province Capital Town
Italy	1	None	21	Marche - Small Town
Italy	1	None	22	Marche - Province Capital Town
Italy	1	None	23	Lazio - Small Town
Italy	1	None	24	Lazio - Province Capital Town
Italy	1	None	25	Abruzzo - Small Town
Italy	1	None	26	Abruzzo - Province Capital Town

**Exhibit S4.1 Sampling Stratification Information** (continued)

Country	IDSTRATE	Explicit Stratum Label	IDSTRATI	Implicit Stratum Label
Italy	1	None	27	Molise - Small Town
Italy	1	None	28	Molise - Province Capital Town
Italy	1	None	29	Campania - Small Town
Italy	1	None	30	Campania - Province Capital Town
Italy	1	None	31	Puglia - Small Town
Italy	1	None	32	Puglia - Province Capital Town
Italy	1	None	33	Basilicata - Small Town
Italy	1	None	34	Basilicata - Province Capital Town
Italy	1	None	35	Calabria - Small Town
Italy	1	None	36	Calabria - Province Capital Town
Italy	1	None	37	Sicilia - Small Town
Italy	1	None	38	Sicilia - Province Capital Town
Italy	1	None	39	Sardegna - Small Town
Italy	1	None	40	Sardegna - Province Capital Town
Kuwait	1	None	1	Asema - Boys
Kuwait	1	None	2	Asema - Girls
Kuwait	1	None	3	Hawalli - Boys
Kuwait	1	None	4	Hawalli - Girls
Kuwait	1	None	5	Farwaniya - Boys
Kuwait	1	None	6	Farwaniya - Girls
Kuwait	1	None	7	Ahmadi - Boys
Kuwait	1	None	8	Ahmadi - Girls
Kuwait	1	None	9	Jahra - Boys
Kuwait	1	None	10	Jahra - Girls
Kuwait	1	None	11	Mubarak - Boys
Kuwait	1	None	12	Mubarak - Girls
Latvia	1	Riga	1	Latvian
Latvia	1	Riga	2	Mixed
Latvia	1	Riga	3	Russian
Latvia	2	Other City	1	Latvian
Latvia	2	Other City	2	Mixed
Latvia	2	Other City	3	Russian
Latvia	3	Rural	1	Latvian
Latvia	3	Rural	2	Mixed
Latvia	3	Rural	3	Russian
Lithuania	1	Vilnius County	1	City of Vilnius (Capital City)
Lithuania	1	Vilnius County	3	Regional Center
Lithuania	1	Vilnius County	4	Town and Village
Lithuania	2	Kauno County	2	Other Major City
Lithuania	2	Kauno County	3	Regional Center
Lithuania	2	Kauno County	4	Town and Village
Lithuania	3	Klaipėdos County	2	Other Major City
Lithuania	3	Klaipėdos County	3	Regional Center
Lithuania	3	Klaipėdos County	4	Town and Village
Lithuania	4	Šiauliai County	2	Other Major City
Lithuania	4	Šiauliai County	3	Regional Center
Lithuania	4	Šiauliai County	4	Town and Village
Lithuania	5	Panevėžio County	2	Other Major City
Lithuania	5	Panevėžio County	3	Regional Center
Lithuania	5	Panevėžio County	4	Town and Village
Lithuania	6	Alytaus County	3	Regional Center
Lithuania	6	Alytaus County	4	Town and Village
Lithuania	7	Marijampolės County	2	Other Major City
Lithuania	7	Marijampolės County	3	Regional Center
Lithuania	7	Marijampolės County	4	Town and Village
Lithuania	8	Tauragės County	3	Regional Center
Lithuania	8	Tauragės County	4	Town and Village
Lithuania	9	Telšiu County	3	Regional Center

**Exhibit S4.1 Sampling Stratification Information** (continued)

Country	IDSTRATE	Explicit Stratum Label	IDSTRATI	Implicit Stratum Label
Lithuania	9	Telšiu County	4	Town and Village
Lithuania	10	Utenos County	3	Regional Center
Lithuania	10	Utenos County	4	Town and Village
Luxembourg	1	Rural	1	None
Luxembourg	2	Urban	1	None
Macedonia, Rep. of	1	Macedonian - Skopje	1	Urban
Macedonia, Rep. of	1	Macedonian - Skopje	2	Rural
Macedonia, Rep. of	2	Macedonian - Outside Skopje	1	Urban
Macedonia, Rep. of	2	Macedonian - Outside Skopje	2	Rural
Macedonia, Rep. of	3	Albanian - Skopje	1	Urban
Macedonia, Rep. of	3	Albanian - Skopje	2	Rural
Macedonia, Rep. of	4	Albanian - Outside Skopje	1	Urban
Macedonia, Rep. of	4	Albanian - Outside Skopje	2	Rural
Moldova, Rep. of	1	Urban - National	1	Lyceum
Moldova, Rep. of	1	Urban - National	2	Gymnasium
Moldova, Rep. of	1	Urban - National	3	Primary
Moldova, Rep. of	1	Urban - National	4	General
Moldova, Rep. of	2	Urban - Mixed	1	Lyceum
Moldova, Rep. of	2	Urban - Mixed	2	Gymnasium
Moldova, Rep. of	2	Urban - Mixed	4	General
Moldova, Rep. of	3	Urban - Russian	1	Lyceum
Moldova, Rep. of	3	Urban - Russian	2	Gymnasium
Moldova, Rep. of	3	Urban - Russian	3	Primary
Moldova, Rep. of	3	Urban - Russian	4	General
Moldova, Rep. of	4	Rural - National	1	Lyceum
Moldova, Rep. of	4	Rural - National	2	Gymnasium
Moldova, Rep. of	4	Rural - National	3	Primary
Moldova, Rep. of	4	Rural - National	4	General
Moldova, Rep. of	5	Rural - Mixed	1	Lyceum
Moldova, Rep. of	5	Rural - Mixed	2	Gymnasium
Moldova, Rep. of	5	Rural - Mixed	3	Primary
Moldova, Rep. of	5	Rural - Mixed	4	General
Moldova, Rep. of	6	Rural - Russian	1	Lyceum
Moldova, Rep. of	6	Rural - Russian	2	Gymnasium
Moldova, Rep. of	6	Rural - Russian	3	Primary
Moldova, Rep. of	6	Rural - Russian	4	General
Morocco	1	Autonomous	1	Urban
Morocco	1	Autonomous	2	Rural
Morocco	2	Centre	1	Urban
Morocco	2	Centre	2	Rural
Morocco	3	Satellite	1	Urban
Morocco	3	Satellite	2	Rural
Morocco	4	Private	1	Urban
Netherlands	1	Low Mean Student Weight	1	Very High Urbanization
Netherlands	1	Low Mean Student Weight	2	High Urbanization
Netherlands	1	Low Mean Student Weight	3	Moderate Urbanization
Netherlands	1	Low Mean Student Weight	4	Low Urbanization
Netherlands	1	Low Mean Student Weight	5	Very Low Urbanization
Netherlands	2	Medium Mean Student Weight	1	Very High Urbanization
Netherlands	2	Medium Mean Student Weight	2	High Urbanization
Netherlands	2	Medium Mean Student Weight	3	Moderate Urbanization
Netherlands	2	Medium Mean Student Weight	4	Low Urbanization
Netherlands	2	Medium Mean Student Weight	5	Very Low Urbanization
Netherlands	3	High Mean Student Weight	1	Very High Urbanization
Netherlands	3	High Mean Student Weight	2	High Urbanization
Netherlands	3	High Mean Student Weight	3	Moderate Urbanization
Netherlands	3	High Mean Student Weight	4	Low Urbanization
Netherlands	3	High Mean Student Weight	5	Very Low Urbanization

**Exhibit S4.1 Sampling Stratification Information** (continued)

Country	IDSTRATE	Explicit Stratum Label	IDSTRATI	Implicit Stratum Label
New Zealand	1	Instruction (81-100%) in Māori	1	None
New Zealand	2	Māori-medium Classes in English Medium Schools	1	None
New Zealand	3	Instruction in English	2	Urban - Lower Socio-Economic Disadvantage
New Zealand	3	Instruction in English	3	Rural - Lower Socio-Economic Disadvantage
New Zealand	3	Instruction in English	4	Urban - Moderate Socio-Economic Disadvantage
New Zealand	3	Instruction in English	5	Rural - Moderate Socio-Economic Disadvantage
New Zealand	3	Instruction in English	6	Urban - Higher Socio-Economic Disadvantage
New Zealand	3	Instruction in English	7	Rural - Higher Socio-Economic Disadvantage
New Zealand	3	Instruction in English	8	Independent Schools
Norway	1	Immigrant Schools	1	Low Expenditures
Norway	1	Immigrant Schools	2	Large City
Norway	2	Bokmål - Low Expenditures	3	No Immigrants
Norway	2	Bokmål - Low Expenditures	4	With Immigrants
Norway	3	Bokmål - Medium Expenditures	3	No Immigrants
Norway	3	Bokmål - Medium Expenditures	4	With Immigrants
Norway	4	Bokmål - High Expenditures	3	No Immigrants
Norway	4	Bokmål - High Expenditures	4	With Immigrants
Norway	5	Bokmål - Large City	3	No Immigrants
Norway	5	Bokmål - Large City	4	With Immigrants
Norway	6	Nynorsk - Low Expenditures	3	No Immigrants
Norway	6	Nynorsk - Low Expenditures	4	With Immigrants
Norway	7	Nynorsk - Medium Expenditures	3	No Immigrants
Norway	7	Nynorsk - Medium Expenditures	4	With Immigrants
Norway	8	Nynorsk - High Expenditures	3	No Immigrants
Norway	8	Nynorsk - High Expenditures	4	With Immigrants
Norway	9	Nynorsk - Large City	3	No Immigrants
Norway	9	Nynorsk - Large City	4	With Immigrants
Norway Grade 5	1	Immigrant Schools	1	Low Expenditures
Norway Grade 5	1	Immigrant Schools	2	Large City
Norway Grade 5	2	Bokmål - Low Expenditures	3	No Immigrants
Norway Grade 5	2	Bokmål - Low Expenditures	4	With Immigrants
Norway Grade 5	3	Bokmål - Medium Expenditures	3	No Immigrants
Norway Grade 5	3	Bokmål - Medium Expenditures	4	With Immigrants
Norway Grade 5	4	Bokmål - High Expenditures	3	No Immigrants
Norway Grade 5	4	Bokmål - High Expenditures	4	With Immigrants
Norway Grade 5	5	Bokmål - Large City	3	No Immigrants
Norway Grade 5	5	Bokmål - Large City	4	With Immigrants
Norway Grade 5	6	Nynorsk - Low Expenditures	3	No Immigrants
Norway Grade 5	6	Nynorsk - Low Expenditures	4	With Immigrants
Norway Grade 5	7	Nynorsk - Medium Expenditures	3	No Immigrants
Norway Grade 5	7	Nynorsk - Medium Expenditures	4	With Immigrants
Norway Grade 5	8	Nynorsk - High Expenditures	3	No Immigrants
Norway Grade 5	8	Nynorsk - High Expenditures	4	With Immigrants
Norway Grade 5	9	Nynorsk - Large City	3	No Immigrants
Norway Grade 5	9	Nynorsk - Large City	4	With Immigrants
Poland	1	Village	1	Dolnośląskie
Poland	1	Village	2	Kujawsko-Pomorskie
Poland	1	Village	3	Lubelskie

**Exhibit S4.1 Sampling Stratification Information** (continued)

Country	IDSTRATE	Explicit Stratum Label	IDSTRATI	Implicit Stratum Label
Poland	1	Village	4	Lubuskie
Poland	1	Village	5	Łódzkie
Poland	1	Village	6	Małopolskie
Poland	1	Village	7	Mazowieckie
Poland	1	Village	8	Opolskie
Poland	1	Village	9	Podkarpackie
Poland	1	Village	10	Podlaskie
Poland	1	Village	11	Pomorskie
Poland	1	Village	12	Śląskie
Poland	1	Village	13	Świętokrzyskie
Poland	1	Village	14	Warmińsko-Mazurskie
Poland	1	Village	15	Wielkopolskie
Poland	1	Village	16	Zachodniopomorskie
Poland	2	Town	1	Dolnośląskie
Poland	2	Town	2	Kujawsko-Pomorskie
Poland	2	Town	3	Lubelskie
Poland	2	Town	4	Lubuskie
Poland	2	Town	5	Łódzkie
Poland	2	Town	6	Małopolskie
Poland	2	Town	7	Mazowieckie
Poland	2	Town	8	Opolskie
Poland	2	Town	9	Podkarpackie
Poland	2	Town	10	Podlaskie
Poland	2	Town	11	Pomorskie
Poland	2	Town	12	Śląskie
Poland	2	Town	13	Świętokrzyskie
Poland	2	Town	14	Warmińsko-Mazurskie
Poland	2	Town	15	Wielkopolskie
Poland	2	Town	16	Zachodniopomorskie
Poland	3	City	1	Dolnośląskie
Poland	3	City	2	Kujawsko-Pomorskie
Poland	3	City	3	Lubelskie
Poland	3	City	4	Lubuskie
Poland	3	City	5	Łódzkie
Poland	3	City	6	Małopolskie
Poland	3	City	7	Mazowieckie
Poland	3	City	8	Opolskie
Poland	3	City	9	Podkarpackie
Poland	3	City	10	Podlaskie
Poland	3	City	11	Pomorskie
Poland	3	City	12	Śląskie
Poland	3	City	13	Świętokrzyskie
Poland	3	City	14	Warmińsko-Mazurskie
Poland	3	City	15	Wielkopolskie
Poland	3	City	16	Zachodniopomorskie
Qatar	1	Ministry of Education (MoE) - Boys	1	None
Qatar	2	Ministry of Education (MoE) - Girls	1	None
Qatar	3	Private Arabic - Boys	1	None
Qatar	4	Private Arabic - Girls	1	None
Qatar	5	Independent - Boys	1	None
Qatar	6	Independent - Girls	1	None
Romania	1	Ardeal	1	Urban
Romania	1	Ardeal	2	Rural
Romania	2	Banat	1	Urban
Romania	2	Banat	2	Rural
Romania	3	Bucaresti	1	Urban

**Exhibit S4.1 Sampling Stratification Information** (continued)

Country	IDSTRATE	Explicit Stratum Label	IDSTRATI	Implicit Stratum Label
Romania	3	Bucaresti	2	Rural
Romania	4	Dobrogea	1	Urban
Romania	4	Dobrogea	2	Rural
Romania	5	Moldova	1	Urban
Romania	5	Moldova	2	Rural
Romania	6	Muntenia	1	Urban
Romania	6	Muntenia	2	Rural
Romania	7	Oltenia	1	Urban
Romania	7	Oltenia	2	Rural
Russian Federation	1	Belgorod Obl.	1	Rural
Russian Federation	1	Belgorod Obl.	2	Settlement
Russian Federation	1	Belgorod Obl.	3	City - Fewer than 50,000
Russian Federation	1	Belgorod Obl.	4	City - 50,000 to 100,000
Russian Federation	1	Belgorod Obl.	5	City - 100,000 to 450,000
Russian Federation	2	Rostov Obl.	1	Rural
Russian Federation	2	Rostov Obl.	2	Settlement
Russian Federation	2	Rostov Obl.	3	City - Fewer than 50,000
Russian Federation	2	Rostov Obl.	4	City - 50,000 to 100,000
Russian Federation	2	Rostov Obl.	5	City - 100,000 to 450,000
Russian Federation	2	Rostov Obl.	7	City - More than 680,000
Russian Federation	3	Adygea	1	Rural
Russian Federation	3	Adygea	2	Settlement
Russian Federation	3	Adygea	3	City - Fewer than 50,000
Russian Federation	3	Adygea	5	City - 100,000 to 450,000
Russian Federation	4	Komi	1	Rural
Russian Federation	4	Komi	2	Settlement
Russian Federation	4	Komi	3	City - Fewer than 50,000
Russian Federation	4	Komi	4	City - 50,000 to 100,000
Russian Federation	4	Komi	5	City - 100,000 to 450,000
Russian Federation	5	Hakasia	1	Rural
Russian Federation	5	Hakasia	2	Settlement
Russian Federation	5	Hakasia	3	City - Fewer than 50,000
Russian Federation	5	Hakasia	4	City - 50,000 to 100,000
Russian Federation	5	Hakasia	5	City - 100,000 to 450,000
Russian Federation	6	Razan Obl.	1	Rural
Russian Federation	6	Razan Obl.	2	Settlement
Russian Federation	6	Razan Obl.	3	City - Fewer than 50,000
Russian Federation	6	Razan Obl.	4	City - 50,000 to 100,000
Russian Federation	6	Razan Obl.	6	City - 450,000 to 680,000
Russian Federation	7	Marii Al.	1	Rural
Russian Federation	7	Marii Al.	2	Settlement
Russian Federation	7	Marii Al.	3	City - Fewer than 50,000
Russian Federation	7	Marii Al.	4	City - 50,000 to 100,000
Russian Federation	7	Marii Al.	5	City - 100,000 to 450,000
Russian Federation	8	Tula Obl.	1	Rural
Russian Federation	8	Tula Obl.	2	Settlement
Russian Federation	8	Tula Obl.	3	City - Fewer than 50,000
Russian Federation	8	Tula Obl.	4	City - 50,000 to 100,000
Russian Federation	8	Tula Obl.	5	City - 100,000 to 450,000
Russian Federation	8	Tula Obl.	6	City - 450,000 to 680,000
Russian Federation	9	Kaliningrad Obl.	1	Rural
Russian Federation	9	Kaliningrad Obl.	2	Settlement
Russian Federation	9	Kaliningrad Obl.	3	City - Fewer than 50,000
Russian Federation	9	Kaliningrad Obl.	6	City - 450,000 to 680,000
Russian Federation	10	Altai Kr.	1	Rural
Russian Federation	10	Altai Kr.	2	Settlement
Russian Federation	10	Altai Kr.	3	City - Fewer than 50,000
Russian Federation	10	Altai Kr.	4	City - 50,000 to 100,000

**Exhibit S4.1 Sampling Stratification Information** (continued)

Country	IDSTRATE	Explicit Stratum Label	IDSTRATI	Implicit Stratum Label
Russian Federation	10	Altai Kr.	5	City - 100,000 to 450,000
Russian Federation	10	Altai Kr.	6	City - 450,000 to 680,000
Russian Federation	11	Kabardino Obl.	1	Rural
Russian Federation	11	Kabardino Obl.	2	Settlement
Russian Federation	11	Kabardino Obl.	3	City - Fewer than 50,000
Russian Federation	11	Kabardino Obl.	4	City - 50,000 to 100,000
Russian Federation	11	Kabardino Obl.	5	City - 100,000 to 450,000
Russian Federation	12	Kurst Obl.	1	Rural
Russian Federation	12	Kurst Obl.	2	Settlement
Russian Federation	12	Kurst Obl.	3	City - Fewer than 50,000
Russian Federation	12	Kurst Obl.	4	City - 50,000 to 100,000
Russian Federation	12	Kurst Obl.	5	City - 100,000 to 450,000
Russian Federation	13	Dagestan	1	Rural
Russian Federation	13	Dagestan	2	Settlement
Russian Federation	13	Dagestan	3	City - Fewer than 50,000
Russian Federation	13	Dagestan	4	City - 50,000 to 100,000
Russian Federation	13	Dagestan	6	City - 450,000 to 680,000
Russian Federation	14	Kirov Obl.	1	Rural
Russian Federation	14	Kirov Obl.	2	Settlement
Russian Federation	14	Kirov Obl.	3	City - Fewer than 50,000
Russian Federation	14	Kirov Obl.	4	City - 50,000 to 100,000
Russian Federation	14	Kirov Obl.	6	City - 450,000 to 680,000
Russian Federation	15	Lipstek Obl.	1	Rural
Russian Federation	15	Lipstek Obl.	2	Settlement
Russian Federation	15	Lipstek Obl.	3	City - Fewer than 50,000
Russian Federation	15	Lipstek Obl.	5	City - 100,000 to 450,000
Russian Federation	15	Lipstek Obl.	6	City - 450,000 to 680,000
Russian Federation	16	N. Novgorod Obl.	1	Rural
Russian Federation	16	N. Novgorod Obl.	2	Settlement
Russian Federation	16	N. Novgorod Obl.	3	City - Fewer than 50,000
Russian Federation	16	N. Novgorod Obl.	4	City - 50,000 to 100,000
Russian Federation	16	N. Novgorod Obl.	5	City - 100,000 to 450,000
Russian Federation	16	N. Novgorod Obl.	7	City - More than 680,000
Russian Federation	17	Orenburg Obl.	1	Rural
Russian Federation	17	Orenburg Obl.	2	Settlement
Russian Federation	17	Orenburg Obl.	3	City - Fewer than 50,000
Russian Federation	17	Orenburg Obl.	4	City - 50,000 to 100,000
Russian Federation	17	Orenburg Obl.	5	City - 100,000 to 450,000
Russian Federation	17	Orenburg Obl.	6	City - 450,000 to 680,000
Russian Federation	18	Amur Obl.	1	Rural
Russian Federation	18	Amur Obl.	2	Settlement
Russian Federation	18	Amur Obl.	3	City - Fewer than 50,000
Russian Federation	18	Amur Obl.	4	City - 50,000 to 100,000
Russian Federation	18	Amur Obl.	5	City - 100,000 to 450,000
Russian Federation	19	Pskov Obl.	1	Rural
Russian Federation	19	Pskov Obl.	2	Settlement
Russian Federation	19	Pskov Obl.	3	City - Fewer than 50,000
Russian Federation	19	Pskov Obl.	5	City - 100,000 to 450,000
Russian Federation	20	Irkutsk Obl.	1	Rural
Russian Federation	20	Irkutsk Obl.	2	Settlement
Russian Federation	20	Irkutsk Obl.	3	City - Fewer than 50,000
Russian Federation	20	Irkutsk Obl.	4	City - 50,000 to 100,000
Russian Federation	20	Irkutsk Obl.	5	City - 100,000 to 450,000
Russian Federation	20	Irkutsk Obl.	6	City - 450,000 to 680,000
Russian Federation	21	Saratov Obl.	1	Rural
Russian Federation	21	Saratov Obl.	2	Settlement
Russian Federation	21	Saratov Obl.	3	City - Fewer than 50,000
Russian Federation	21	Saratov Obl.	4	City - 50,000 to 100,000

**Exhibit S4.1 Sampling Stratification Information** (continued)

Country	IDSTRATE	Explicit Stratum Label	IDSTRATI	Implicit Stratum Label
Russian Federation	21	Saratov Obl.	5	City - 100,000 to 450,000
Russian Federation	21	Saratov Obl.	7	City - More than 680,000
Russian Federation	22	Tatarstan	1	Rural
Russian Federation	22	Tatarstan	2	Settlement
Russian Federation	22	Tatarstan	3	City - Fewer than 50,000
Russian Federation	22	Tatarstan	4	City - 50,000 to 100,000
Russian Federation	22	Tatarstan	5	City - 100,000 to 450,000
Russian Federation	22	Tatarstan	6	City - 450,000 to 680,000
Russian Federation	22	Tatarstan	7	City - More than 680,000
Russian Federation	23	Volvograd Obl.	1	Rural
Russian Federation	23	Volvograd Obl.	2	Settlement
Russian Federation	23	Volvograd Obl.	3	City - Fewer than 50,000
Russian Federation	23	Volvograd Obl.	4	City - 50,000 to 100,000
Russian Federation	23	Volvograd Obl.	5	City - 100,000 to 450,000
Russian Federation	23	Volvograd Obl.	7	City - More than 680,000
Russian Federation	24	Bashkortostan	1	Rural
Russian Federation	24	Bashkortostan	2	Settlement
Russian Federation	24	Bashkortostan	3	City - Fewer than 50,000
Russian Federation	24	Bashkortostan	4	City - 50,000 to 100,000
Russian Federation	24	Bashkortostan	5	City - 100,000 to 450,000
Russian Federation	24	Bashkortostan	7	City - More than 680,000
Russian Federation	25	Kurgan Obl.	1	Rural
Russian Federation	25	Kurgan Obl.	2	Settlement
Russian Federation	25	Kurgan Obl.	3	City - Fewer than 50,000
Russian Federation	25	Kurgan Obl.	4	City - 50,000 to 100,000
Russian Federation	25	Kurgan Obl.	5	City - 100,000 to 450,000
Russian Federation	26	Krasnodar Kr.	1	Rural
Russian Federation	26	Krasnodar Kr.	2	Settlement
Russian Federation	26	Krasnodar Kr.	3	City - Fewer than 50,000
Russian Federation	26	Krasnodar Kr.	4	City - 50,000 to 100,000
Russian Federation	26	Krasnodar Kr.	5	City - 100,000 to 450,000
Russian Federation	26	Krasnodar Kr.	7	City - More than 680,000
Russian Federation	27	Novosibirsk Obl.	1	Rural
Russian Federation	27	Novosibirsk Obl.	2	Settlement
Russian Federation	27	Novosibirsk Obl.	3	City - Fewer than 50,000
Russian Federation	27	Novosibirsk Obl.	4	City - 50,000 to 100,000
Russian Federation	27	Novosibirsk Obl.	7	City - More than 680,000
Russian Federation	28	St. Petersburg	8	St. Petersburg
Russian Federation	29	Sverdlovsk Obl.	1	Rural
Russian Federation	29	Sverdlovsk Obl.	2	Settlement
Russian Federation	29	Sverdlovsk Obl.	3	City - Fewer than 50,000
Russian Federation	29	Sverdlovsk Obl.	4	City - 50,000 to 100,000
Russian Federation	29	Sverdlovsk Obl.	5	City - 100,000 to 450,000
Russian Federation	29	Sverdlovsk Obl.	7	City - More than 680,000
Russian Federation	30	Alania	1	Rural
Russian Federation	30	Alania	2	Settlement
Russian Federation	30	Alania	3	City - Fewer than 50,000
Russian Federation	30	Alania	4	City - 50,000 to 100,000
Russian Federation	30	Alania	5	City - 100,000 to 450,000
Russian Federation	30	Alania	6	City - 450,000 to 680,000
Russian Federation	31	Tambov Obl.	1	Rural
Russian Federation	31	Tambov Obl.	2	Settlement
Russian Federation	31	Tambov Obl.	3	City - Fewer than 50,000
Russian Federation	31	Tambov Obl.	4	City - 50,000 to 100,000
Russian Federation	31	Tambov Obl.	5	City - 100,000 to 450,000
Russian Federation	32	Udmurtia	1	Rural
Russian Federation	32	Udmurtia	2	Settlement
Russian Federation	32	Udmurtia	3	City - Fewer than 50,000



**Exhibit S4.1 Sampling Stratification Information** (continued)

Country	IDSTRATE	Explicit Stratum Label	IDSTRATI	Implicit Stratum Label
Russian Federation	32	Udmurtia	4	City - 50,000 to 100,000
Russian Federation	32	Udmurtia	5	City - 100,000 to 450,000
Russian Federation	32	Udmurtia	7	City - More than 680,000
Russian Federation	33	Perm Obl.	1	Rural
Russian Federation	33	Perm Obl.	2	Settlement
Russian Federation	33	Perm Obl.	3	City - Fewer than 50,000
Russian Federation	33	Perm Obl.	4	City - 50,000 to 100,000
Russian Federation	33	Perm Obl.	5	City - 100,000 to 450,000
Russian Federation	33	Perm Obl.	7	City - More than 680,000
Russian Federation	34	Stavropol Kr.	1	Rural
Russian Federation	34	Stavropol Kr.	2	Settlement
Russian Federation	34	Stavropol Kr.	3	City - Fewer than 50,000
Russian Federation	34	Stavropol Kr.	4	City - 50,000 to 100,000
Russian Federation	34	Stavropol Kr.	5	City - 100,000 to 450,000
Russian Federation	35	Hanty-Mansii Ok.	1	Rural
Russian Federation	35	Hanty-Mansii Ok.	2	Settlement
Russian Federation	35	Hanty-Mansii Ok.	3	City - Fewer than 50,000
Russian Federation	35	Hanty-Mansii Ok.	4	City - 50,000 to 100,000
Russian Federation	35	Hanty-Mansii Ok.	5	City - 100,000 to 450,000
Russian Federation	36	Krasnoyarsk Kr.	1	Rural
Russian Federation	36	Krasnoyarsk Kr.	2	Settlement
Russian Federation	36	Krasnoyarsk Kr.	3	City - Fewer than 50,000
Russian Federation	36	Krasnoyarsk Kr.	4	City - 50,000 to 100,000
Russian Federation	36	Krasnoyarsk Kr.	5	City - 100,000 to 450,000
Russian Federation	36	Krasnoyarsk Kr.	7	City - More than 680,000
Russian Federation	37	Chuvashia	1	Rural
Russian Federation	37	Chuvashia	2	Settlement
Russian Federation	37	Chuvashia	3	City - Fewer than 50,000
Russian Federation	37	Chuvashia	4	City - 50,000 to 100,000
Russian Federation	37	Chuvashia	5	City - 100,000 to 450,000
Russian Federation	37	Chuvashia	6	City - 450,000 to 680,000
Russian Federation	38	Sakha	1	Rural
Russian Federation	38	Sakha	2	Settlement
Russian Federation	38	Sakha	3	City - Fewer than 50,000
Russian Federation	38	Sakha	4	City - 50,000 to 100,000
Russian Federation	38	Sakha	5	City - 100,000 to 450,000
Russian Federation	39	Kemerovo Obl.	1	Rural
Russian Federation	39	Kemerovo Obl.	2	Settlement
Russian Federation	39	Kemerovo Obl.	3	City - Fewer than 50,000
Russian Federation	39	Kemerovo Obl.	4	City - 50,000 to 100,000
Russian Federation	39	Kemerovo Obl.	5	City - 100,000 to 450,000
Russian Federation	39	Kemerovo Obl.	6	City - 450,000 to 680,000
Russian Federation	40	Moscow	9	Moscow
Russian Federation	41	Moskva Obl.	1	Rural
Russian Federation	41	Moskva Obl.	2	Settlement
Russian Federation	41	Moskva Obl.	3	City - Fewer than 50,000
Russian Federation	41	Moskva Obl.	4	City - 50,000 to 100,000
Russian Federation	41	Moskva Obl.	5	City - 100,000 to 450,000
Russian Federation	42	Orel Obl.	1	Rural
Russian Federation	42	Orel Obl.	2	Settlement
Russian Federation	42	Orel Obl.	3	City - Fewer than 50,000
Russian Federation	42	Orel Obl.	4	City - 50,000 to 100,000
Russian Federation	42	Orel Obl.	5	City - 100,000 to 450,000
Russian Federation	43	Chelyabinsk Obl.	1	Rural
Russian Federation	43	Chelyabinsk Obl.	2	Settlement
Russian Federation	43	Chelyabinsk Obl.	3	City - Fewer than 50,000
Russian Federation	43	Chelyabinsk Obl.	4	City - 50,000 to 100,000
Russian Federation	43	Chelyabinsk Obl.	5	City - 100,000 to 450,000

**Exhibit S4.1 Sampling Stratification Information** (continued)

Country	IDSTRATE	Explicit Stratum Label	IDSTRATI	Implicit Stratum Label
Russian Federation	43	Chelyabinsk Obl.	7	City - More than 680,000
Russian Federation	44	Chita Obl.	1	Rural
Russian Federation	44	Chita Obl.	2	Settlement
Russian Federation	44	Chita Obl.	3	City - Fewer than 50,000
Russian Federation	44	Chita Obl.	4	City - 50,000 to 100,000
Russian Federation	44	Chita Obl.	5	City - 100,000 to 450,000
Russian Federation	45	Omsk Obl.	1	Rural
Russian Federation	45	Omsk Obl.	2	Settlement
Russian Federation	45	Omsk Obl.	3	City - Fewer than 50,000
Russian Federation	45	Omsk Obl.	7	City - More than 680,000
Scotland	1	Large Urban Area	1	Low Free School Meals
Scotland	1	Large Urban Area	2	Medium Free School Meals
Scotland	1	Large Urban Area	3	High Free School Meals
Scotland	1	Large Urban Area	4	Unknown Free School Meals
Scotland	1	Large Urban Area	5	Independent
Scotland	2	Other Urban Area	1	Low Free School Meals
Scotland	2	Other Urban Area	2	Medium Free School Meals
Scotland	2	Other Urban Area	3	High Free School Meals
Scotland	2	Other Urban Area	4	Unknown Free School Meals
Scotland	2	Other Urban Area	5	Independent
Scotland	3	Accessible Small Town	1	Low Free School Meals
Scotland	3	Accessible Small Town	2	Medium Free School Meals
Scotland	3	Accessible Small Town	3	High Free School Meals
Scotland	3	Accessible Small Town	4	Unknown Free School Meals
Scotland	3	Accessible Small Town	5	Independent
Scotland	4	Remote Small Town	1	Low Free School Meals
Scotland	4	Remote Small Town	2	Medium Free School Meals
Scotland	4	Remote Small Town	3	High Free School Meals
Scotland	4	Remote Small Town	5	Independent
Scotland	5	Accessible Rural Area	1	Low Free School Meals
Scotland	5	Accessible Rural Area	2	Medium Free School Meals
Scotland	5	Accessible Rural Area	3	High Free School Meals
Scotland	5	Accessible Rural Area	4	Unknown Free School Meals
Scotland	5	Accessible Rural Area	5	Independent
Scotland	6	Remote Rural Area	1	Low Free School Meals
Scotland	6	Remote Rural Area	2	Medium Free School Meals
Scotland	6	Remote Rural Area	3	High Free School Meals
Scotland	6	Remote Rural Area	4	Unknown Free School Meals
Scotland	6	Remote Rural Area	5	Independent
Singapore	1	None	1	None
Slovak Republic	.A	Not Available	.A	Not Available
Slovenia	1	Old System	1	None
Slovenia	2	New System	1	None
Slovenia	3	Mixed Old and New System	1	None
South Africa	1	Eastern Cape - Afrikaans	.A	Not Available
South Africa	2	Eastern Cape - English	.A	Not Available
South Africa	3	Eastern Cape - Isixhosa	.A	Not Available
South Africa	4	Eastern Cape - Sesotho	.A	Not Available
South Africa	5	Eastern Cape - Engl. and Afr.	.A	Not Available
South Africa	6	Eastern Cape - Bilingual	.A	Not Available
South Africa	7	Eastern Cape - Missing	.A	Not Available
South Africa	8	Free State - Afrikaans	.A	Not Available
South Africa	9	Free State - English	.A	Not Available
South Africa	10	Free State - Sesotho	.A	Not Available
South Africa	11	Free State - Setswana	.A	Not Available
South Africa	12	Free State - Engl. and Afr.	.A	Not Available
South Africa	13	Free State - Bilingual	.A	Not Available
South Africa	14	Free State - Missing	.A	Not Available

**Exhibit S4.1 Sampling Stratification Information (continued)**

Country	IDSTRATE	Explicit Stratum Label	IDSTRATI	Implicit Stratum Label
South Africa	15	Gauteng - Afrikaans	.A	Not Available
South Africa	16	Gauteng - English	.A	Not Available
South Africa	17	Gauteng - Isixhosa	.A	Not Available
South Africa	18	Gauteng - Isizulu	.A	Not Available
South Africa	19	Gauteng - Sepedi	.A	Not Available
South Africa	20	Gauteng - Sesotho	.A	Not Available
South Africa	21	Gauteng - Setswana	.A	Not Available
South Africa	22	Gauteng - Engl. and Afr.	.A	Not Available
South Africa	23	Gauteng - Bilingual	.A	Not Available
South Africa	24	Gauteng - Missing	.A	Not Available
South Africa	25	Kwazulu Natal - Afrikaans	.A	Not Available
South Africa	26	Kwazulu Natal - English	.A	Not Available
South Africa	27	Kwazulu Natal - Isizulu	.A	Not Available
South Africa	28	Kwazulu Natal - Engl. and Afr.	.A	Not Available
South Africa	29	Kwazulu Natal - Bilingual	.A	Not Available
South Africa	30	Kwazulu Natal - Missing	.A	Not Available
South Africa	31	Limpopo - Afrikaans	.A	Not Available
South Africa	32	Limpopo - English	.A	Not Available
South Africa	33	Limpopo - Sepedi	.A	Not Available
South Africa	34	Limpopo - Tshivenda	.A	Not Available
South Africa	35	Limpopo - Xitsonga	.A	Not Available
South Africa	36	Limpopo - Engl. and Afr.	.A	Not Available
South Africa	37	Limpopo - Bilingual	.A	Not Available
South Africa	38	Limpopo - Missing	.A	Not Available
South Africa	39	Mpumalanga - Afrikaans	.A	Not Available
South Africa	40	Mpumalanga - English	.A	Not Available
South Africa	41	Mpumalanga - Isindebele	.A	Not Available
South Africa	42	Mpumalanga - Isizulu	.A	Not Available
South Africa	43	Mpumalanga - Sepedi	.A	Not Available
South Africa	44	Mpumalanga - Setswana	.A	Not Available
South Africa	45	Mpumalanga - Siswati	.A	Not Available
South Africa	46	Mpumalanga - Engl. and Afr.	.A	Not Available
South Africa	47	Mpumalanga - Bilingual	.A	Not Available
South Africa	48	Mpumalanga - Missing	.A	Not Available
South Africa	49	Northern Cape - Afrikaans	.A	Not Available
South Africa	50	Northern Cape - English	.A	Not Available
South Africa	51	Northern Cape - Setswana	.A	Not Available
South Africa	52	Northern Cape - Engl. and Afr.	.A	Not Available
South Africa	53	Northern Cape - Missing	.A	Not Available
South Africa	54	North West - Afrikaans	.A	Not Available
South Africa	55	North West - English	.A	Not Available
South Africa	56	North West - Setswana	.A	Not Available
South Africa	57	North West - Engl. and Afr.	.A	Not Available
South Africa	58	North West - Missing	.A	Not Available
South Africa	59	Western Cape - Afrikaans	.A	Not Available
South Africa	60	Western Cape - English	.A	Not Available
South Africa	61	Western Cape - Isixhosa	.A	Not Available
South Africa	62	Western Cape - Engl. and Afr.	.A	Not Available
Spain	.A	Not Available	1	Public
Spain	.A	Not Available	2	Private
Sweden	1	Municipal Schools	1	None
Sweden	2	Independent Schools	1	None
Trinidad and Tobago	1	Caroni	1	Private - Mixed
Trinidad and Tobago	1	Caroni	2	Government - Mixed
Trinidad and Tobago	1	Caroni	5	Denominational - Mixed
Trinidad and Tobago	2	North Eastern	2	Government - Mixed
Trinidad and Tobago	2	North Eastern	5	Denominational - Mixed
Trinidad and Tobago	2	North Eastern	6	Denominational - Girls

**Exhibit S4.1 Sampling Stratification Information** (continued)

Country	IDSTRATE	Explicit Stratum Label	IDSTRATI	Implicit Stratum Label
Trinidad and Tobago	3	Port of Spain and Environs	1	Private - Mixed
Trinidad and Tobago	3	Port of Spain and Environs	2	Government - Mixed
Trinidad and Tobago	3	Port of Spain and Environs	3	Government - Girls
Trinidad and Tobago	3	Port of Spain and Environs	4	Government - Boys
Trinidad and Tobago	3	Port of Spain and Environs	5	Denominational - Mixed
Trinidad and Tobago	3	Port of Spain and Environs	6	Denominational - Girls
Trinidad and Tobago	3	Port of Spain and Environs	7	Denominational - Boys
Trinidad and Tobago	4	St. George East	1	Private - Mixed
Trinidad and Tobago	4	St. George East	2	Government - Mixed
Trinidad and Tobago	4	St. George East	3	Government - Girls
Trinidad and Tobago	4	St. George East	4	Government - Boys
Trinidad and Tobago	4	St. George East	5	Denominational - Mixed
Trinidad and Tobago	4	St. George East	6	Denominational - Girls
Trinidad and Tobago	4	St. George East	7	Denominational - Boys
Trinidad and Tobago	5	St. Patrick	1	Private - Mixed
Trinidad and Tobago	5	St. Patrick	2	Government - Mixed
Trinidad and Tobago	5	St. Patrick	5	Denominational - Mixed
Trinidad and Tobago	5	St. Patrick	6	Denominational - Girls
Trinidad and Tobago	5	St. Patrick	7	Denominational - Boys
Trinidad and Tobago	6	South Eastern	1	Private - Mixed
Trinidad and Tobago	6	South Eastern	2	Government - Mixed
Trinidad and Tobago	6	South Eastern	5	Denominational - Mixed
Trinidad and Tobago	7	Victoria	1	Private - Mixed
Trinidad and Tobago	7	Victoria	2	Government - Mixed
Trinidad and Tobago	7	Victoria	3	Government - Girls
Trinidad and Tobago	7	Victoria	4	Government - Boys
Trinidad and Tobago	7	Victoria	5	Denominational - Mixed
Trinidad and Tobago	7	Victoria	6	Denominational - Girls
Trinidad and Tobago	7	Victoria	7	Denominational - Boys
Trinidad and Tobago	8	Tobago	1	Private - Mixed
Trinidad and Tobago	8	Tobago	2	Government - Mixed
Trinidad and Tobago	8	Tobago	5	Denominational - Mixed
United States	.A	Not Available	.A	Not Available





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