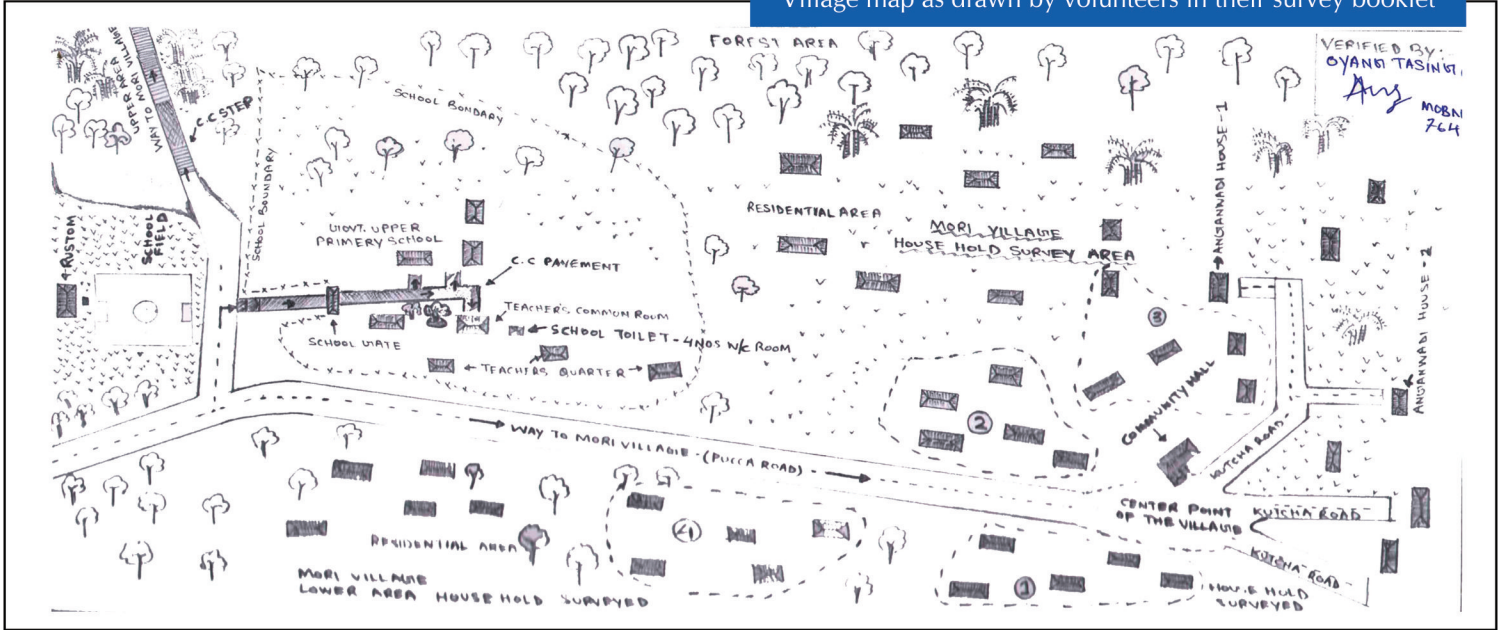## Arunachal Pradesh

Village map as drawn by volunteers in their survey booklet

Arunachal Pradesh RURAL

ANALYSIS BASED ON DATA FROM HOUSEHOLDS. 8 OUT OF 16 DISTRICTS
Data is not presented where sample size is insufficient.
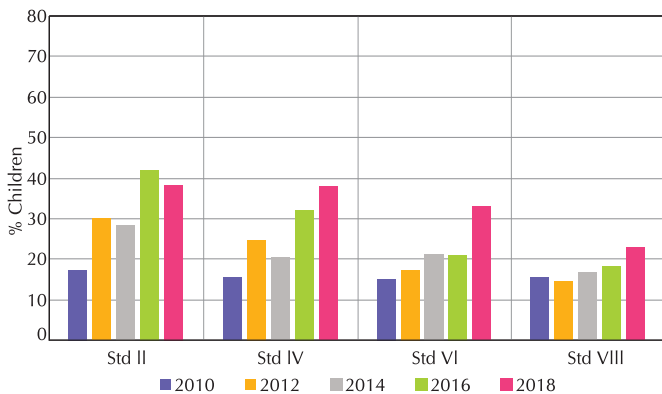
School enrollment

Table 1: % Children enrolled in different types of schools by age group and gender 2018

| Age group	Govt	Pvt	Other	Not in school	Total
Age 6-14: All	60.1	35.2	0.8	3.9	100
Age 7-16: All	63.0	31.9	0.8	4.3	100
Age 7-10: All	55.8	40.4	0.7	3.1	100
Age 7-10: Boys	53.3	43.7	0.8	2.2	100
Age 7-10: Girls	58.3	37.2	0.5	3.9	100
Age 11-14: All	66.4	29.0	1.0	3.6	100
Age 11-14: Boys	65.3	29.7	0.8	4.3	100
Age 11-14: Girls	67.6	28.4	1.2	2.9	100
Age 15-16: All	74.8	14.5	0.6	10.1	100
Age 15-16: Boys	74.5	13.7	0.3	11.5	100
Age 15-16: Girls	75.1	15.4	0.9	8.6	100

'Other' includes children going to Madarsa or EGS.
'Not in school' includes children who never enrolled or have dropped out.

Chart 1: Trends over time
% Children not enrolled in school by age group and gender 2006, 2008, 2010, 2012, 2014, 2016 and 2018
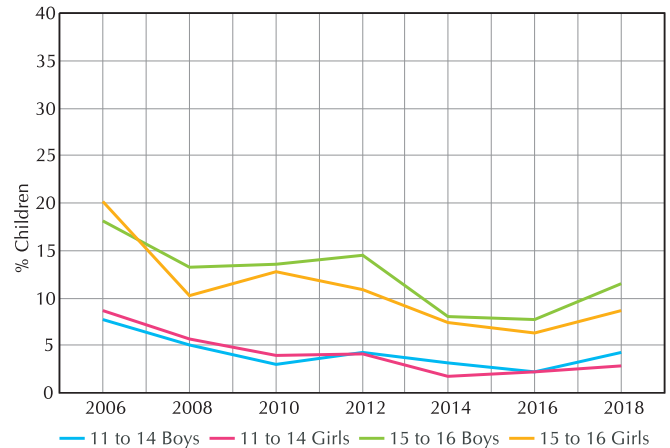
Each line shows trends in the proportion of children not enrolled in school for a particular subset of children. For example, the proportion of girls (age 15-16) not enrolled in school was 20.2% in 2006, 10.9% in 2012, and 8.6% in 2018.

Chart 2: Trends over time
% Children enrolled in private schools in Std II, IV, VI and VIII 2010, 2012, 2014, 2016 and 2018

The proportion of children going to private school often varies by grade. There are also changes over time. For example, in 2018 private school enrollment in Std II is 38.3% as compared to 23% in Std VIII.

Table 2: Age-grade distribution
% Children in each grade by age 2018

Std / Age	≤5	6	7	8	9	10	11	12	13	14	15	16	Total
I	31.1	31.7	17.4	10.8	9.1								100
II	5.7	17.2	34.2	18.6	11.2	6.1	7.1						100
III		5.2	12.4	29.5	24.6	14.3	5.4	6.1	2.7				100
IV		4.3	14.8	24.7	23.9	12.1	11.3	8.8					100
V			6.1	12.1	26.1	27.4	13.8	6.9	7.6				100
VI			3.3	11.5	26.2	25.2	19.4	10.6	3.8				100
VII			6.3	12.4	25.1	26.6	14.9	10.0	4.8				100
VIII			4.8	15.6	23.1	29.8	17.0	9.8					100

This table shows the age distribution for each grade. For example, of all children in Std III, 29.5% children are 8 years old but there are also 12.4% who are 7, 24.6% who are 9, 14.3% who are 10, 5.4% who are 11, 6.1% who are 12, and 2.7% who are 13 or older.

Young children in pre-school and school

Table 3: % Children age 3-8 enrolled in different types of pre-schools and schools 2018

Age	Pre-school			School			Not in pre-school or school	Total
	Anganwadi	Govt LKG/UKG	Pvt LKG/UKG	Govt	Pvt	Other		
Age 3	35.2	3.8	17.9	3.0	0.4	0.0	39.7	100
Age 4	25.6	8.0	39.4	6.9	1.9	0.0	18.2	100
Age 5	17.1	8.4	36.1	24.0	7.7	0.0	6.8	100
Age 6	12.1	4.1	20.1	32.7	24.7	0.0	6.4	100
Age 7	8.7	2.1	10.7	40.1	34.6	0.4	3.4	100
Age 8	3.6	3.0	3.4	51.5	36.3	0.4	1.9	100

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Reading

ASER learning assessments are conducted in the household. Children in the age group 5-16 are assessed. Assessments are conducted in 19 languages across the country. The type of school in which children are enrolled (government or private) is also recorded.

Table 4: % Children by grade and reading level
All children 2018

Std	Not even letter	Letter	Word	Std I level text	Std II level text	Total
I	25.5	48.6	19.5	5.5	1.0	100
II	6.6	48.0	29.3	8.7	7.4	100
III	5.4	34.3	28.1	13.4	18.8	100
IV	1.2	23.0	31.2	20.4	24.3	100
V	1.0	18.0	23.3	20.6	37.1	100
VI	0.6	12.5	17.8	17.3	51.7	100
VII	0.4	4.9	12.4	20.1	62.2	100
VIII	0.0	5.4	8.2	16.0	70.5	100

The reading tool is a progressive tool. Each row shows the variation in children's reading levels within a given grade. For example, among children in Std III, 5.4% cannot even read letters, 34.3% can read letters but not words or higher, 28.1% can read words but not Std I level text or higher, 13.4% can read Std I level text but not Std II level text, and 18.8% can read Std II level text. For each grade, the total of these exclusive categories is 100%.

Reading Tool (English)

Std II level text

It was the rainy season. The sky was full of clouds. There was a cool breeze blowing. Asif was eager to play on a swing. His older brother got a thick rope. They tied it on the tree and made a swing. Many children joined them and they all started playing. They played till it got dark.

Std I level text

This is a big monkey.
He lives on a tree.
He likes to jump.
He also likes bananas.

Letters

r o k
d i
f y s
b n

Words

moon like
ant
sun hot
baby dark
net
bus gold

Table 5: Trends over time
Reading in Std III by school type
2012, 2014, 2016 and 2018

Year	% Children in Std III who can read Std II level text		
	Govt	Pvt	Govt & Pvt*
2012	15.5	42.1	21.2
2014	5.8	24.9	10.3
2016	2.3	33.5	11.8
2018	4.8	44.0	18.7

* This is the weighted average for children in government and private schools only.

The highest level in the ASER reading assessment is a Std II level text. Table 5 shows the proportion of children in Std III who can read Std II level text. This figure is a proxy for "grade level" reading for Std III. Data for children enrolled in government schools and private schools is shown separately.

Table 6: Trends over time
Reading in Std V and Std VIII by school type
2012, 2014, 2016 and 2018

Year	% Children in Std V who can read Std II level text			% Children in Std VIII who can read Std II level text		
	Govt	Pvt	Govt & Pvt*	Govt	Pvt	Govt & Pvt*
2012	52.1	68.8	55.4	84.4	95.6	85.9
2014	43.4	51.2	44.5	70.5	83.8	72.5
2016	16.7	52.6	25.3	63.1	89.3	68.1
2018	22.1	64.7	37.0	64.1	91.8	70.1

* This is the weighted average for children in government and private schools only.

Chart 3: Trends over time
% Children who can read Std II level text
Cohorts of children in Std IV in 2008, 2010, 2012 and 2014
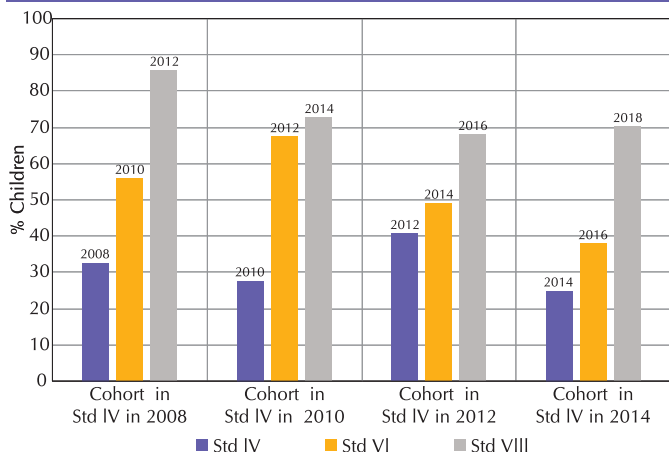
Legend: ■ Std IV ■ Std VI ■ Std VIII

This graph shows the progress of four cohorts from Std IV to Std VIII. For example, the first cohort was in Std IV in 2008, in Std VI in 2010, and in Std VIII in 2012. For this cohort, % children who could read Std II level text in Std IV (in 2008) was 32.7% and in Std VI (in 2010) was 55.8%. When the cohort reached Std VIII in 2012, this figure was 85.9%. The progress of each of these cohorts can be understood in the same way.

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Arithmetic

ASER learning assessments are conducted in the household. Children in the age group 5-16 are assessed. Assessments are conducted in 19 languages across the country. The type of school in which children are enrolled (government or private) is also recorded.

Table 7: % Children by grade and arithmetic level
All children 2018

Std	Not even 1-9	Recognize numbers 1-9	Recognize numbers 10-99	Subtract	Divide	Total
I	21.0	30.1	36.4	7.1	5.3	100
II	4.3	17.6	56.9	16.7	4.6	100
III	2.4	10.1	53.6	27.1	6.8	100
IV	1.2	4.6	47.4	35.1	11.8	100
V	0.2	2.9	36.7	32.9	27.3	100
VI	0.6	2.1	33.4	32.0	31.9	100
VII	0.0	1.0	26.5	31.3	41.3	100
VIII	0.0	0.5	21.4	28.0	50.1	100

The arithmetic tool is a progressive tool. Each row shows the variation in children's arithmetic levels within a given grade. For example, among children in Std III, 2.4% cannot even recognize numbers 1-9, 10.1% can recognize numbers up to 9 but cannot recognize numbers up to 99 or higher, 53.6% can recognize numbers up to 99 but cannot do subtraction, 27.1% can do subtraction but cannot do division, and 6.8% can do division. For each grade, the total of these exclusive categories is 100%.

Arithmetic Tool (English)

Table 8: Trends over time
Arithmetic in Std III by school type
2012, 2014, 2016 and 2018

Year	% Children in Std III who can do at least subtraction		
	Govt	Pvt	Govt & Pvt*
2012	47.9	70.1	52.6
2014	34.0	47.3	37.1
2016	22.2	53.2	31.6
2018	23.5	51.7	33.5

* This is the weighted average for children in government and private schools only.

In most states, children are expected to do 2-digit by 2-digit subtraction with borrowing by Std II. Table 8 shows the proportion of children in Std III who can do subtraction. This figure is a proxy for "grade level" arithmetic for Std III. Data for children enrolled in government schools and private schools is shown separately.

Table 9: Trends over time
Arithmetic in Std V and Std VIII by school type
2012, 2014, 2016 and 2018

Year	% Children in Std V who can do division			% Children in Std VIII who can do division		
	Govt	Pvt	Govt & Pvt*	Govt	Pvt	Govt & Pvt*
2012	43.1	61.4	46.7	79.5		81.1
2014	35.6	36.9	35.8	59.7		59.5
2016	11.7	41.2	18.7	52.5		55.5
2018	22.1	36.4	27.1	42.6		49.3

* This is the weighted average for children in government and private schools only.

Chart 4: Trends over time
% Children who can do division
Cohorts of children in Std IV in 2008, 2010, 2012 and 2014
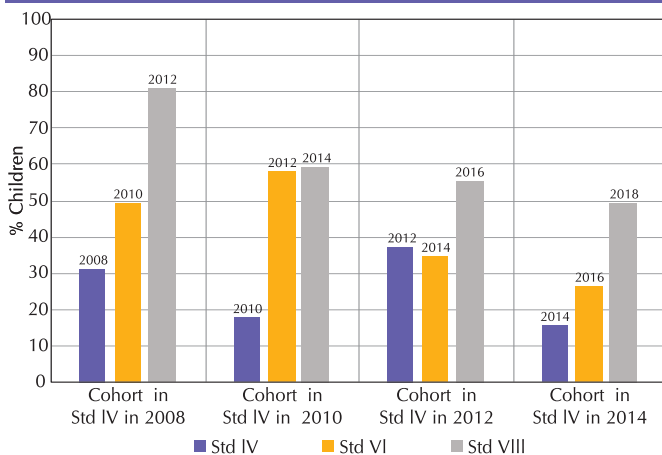
This graph shows the progress of four cohorts from Std IV to Std VIII. For example, the first cohort was in Std IV in 2008, in Std VI in 2010, and in Std VIII in 2012. For this cohort, % children who were at division level in Std IV (in 2008) was 31.1% and in Std VI (in 2010) was 49.2%. When the cohort reached Std VIII in 2012, this figure was 81.1%. The progress of each of these cohorts can be understood in the same way.

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Basic reading and arithmetic

Table 10: Basic reading by age group and gender 2018

Age group	% Children who can read Std II level text		
	Male	Female	All
Age 8-10	21.3	23.8	22.6
Age 11-13	46.0	45.8	45.9
Age 14-16	58.1	66.3	62.3

Table 11: Basic arithmetic by age group and gender 2018

Age group	% Children who can do at least subtraction			% Children who can do division		
	Male	Female	All	Male	Female	All
Age 8-10	40.7	36.5	38.5	11.5	10.9	11.2
Age 11-13	60.2	58.8	59.5	34.4	30.5	32.4
Age 14-16	71.4	70.1	70.7	39.5	46.4	43.1

Beyond basics

These questions were asked only to children in the age group 14-16. For each task, the surveyor showed the visual and read out the question to the child. The exact answer given by the child was recorded. The results are reported only for those children who were able to do at least subtraction correctly.

Calculating time
If this girl sleeps at this time at night and wakes up at this time in the morning, then for how many hours does she sleep?
09:30 PM   05:30 AM

Applying unitary method
If 3 tablets are needed to purify 15 litres of water, how many tablets are needed to purify 50 litres of water?
15 Litres   50 Litres

Financial decision making
These 5 books are available in two shops in a market. If you have to buy all 5 books, what is the least amount of money you would have to spend?

Shop 1 - Rate list		Shop 2 - Rate list	
Name of book	Price	Name of book	Price
Science	₹60	Science	Special Offer!! Set of 5 books for ₹299 Only
Math	₹80	Math	
Hindi	₹30	Hindi	
English	₹70	English	
History	₹50	History	

Calculating discount
Sale!! 10% Discount
M.R.P. ₹300
This is the price of this T-shirt and it is available on a discount of 10 percent. If you were to buy this T-shirt, how much money would you need to spend?

Table 12: Of all children who can do subtraction but not division, % children who can correctly answer by age and gender 2018

Age	Calculating time			Applying unitary method			Financial decision making			Calculating discount		
	Male	Female	All	Male	Female	All	Male	Female	All	Male	Female	All
Age 14	33.8	15.7	23.6	19.7	24.0	22.1	12.8	26.2	20.4	2.9	3.1	3.0
Age 15	37.9	21.5	29.3	30.1	23.5	26.7	20.2	8.9	14.3	12.8	2.8	7.6
Age 16	36.0	23.3	33.3	32.9	41.3	34.7	25.7	0.0	20.2	7.4	8.7	7.6
Age 14-16	35.9	18.9	28.1	27.9	26.0	27.0	20.0	16.2	18.3	7.5	3.7	5.8

Table 13: Of all children who can do division, % children who can correctly answer by age and gender 2018

Age	Calculating time			Applying unitary method			Financial decision making			Calculating discount		
	Male	Female	All	Male	Female	All	Male	Female	All	Male	Female	All
Age 14	37.4	41.5	40.0	51.8	31.1	38.8	26.8	26.7	26.7	15.1	9.4	11.5
Age 15	41.5	51.7	47.3	65.4	38.1	50.0	32.1	31.4	31.7	21.6	13.8	17.2
Age 16	56.6	44.8	50.2	52.3	27.8	38.9	36.7	39.0	38.0	15.0	21.3	18.4
Age 14-16	44.3	45.9	45.2	57.1	32.8	42.9	31.6	31.3	31.4	17.6	13.8	15.3

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ANALYSIS BASED ON DATA FROM GOVERNMENT SCHOOLS. 8 OUT OF 16 DISTRICTS
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School observations

In each sampled village, the largest government school with primary sections is visited on the day of the survey. Information about schools in this report is based on these visits.

Table 14: Trends over time
Number of schools visited
2010, 2014, 2016 and 2018

	2010	2014	2016	2018
Primary schools (Std I-IV/V)	152	91	86	58
Upper primary schools (Std I-VII/VIII)	107	98	126	101
Total schools visited	259	189	212	159

Table 15: Trends over time
Student and teacher attendance on the day of visit
2010, 2014, 2016 and 2018

All schools (Std I-IV/V and Std I-VII/VIII)	2010	2014	2016	2018
% Enrolled children present (Average)	82.5	84.4	76.2	77.7
% Teachers present (Average)	85.3	83.5	81.2	71.1

Table 16: Trends over time
Multigrade classes
2010, 2014, 2016 and 2018

All schools (Std I-IV/V and Std I-VII/VIII)	2010	2014	2016	2018
% Schools where Std II children were observed sitting with one or more other classes	30.7	39.0	33.5	37.9
% Schools where Std IV children were observed sitting with one or more other classes	26.7	30.3	27.3	27.5

School facilities

Table 17: Trends over time
% Schools with selected facilities
2010, 2014, 2016 and 2018

% Schools with		2010	2014	2016	2018
Mid-day meal	Kitchen shed for cooking mid-day meal	64.0	57.4	56.0	57.4
	Mid-day meal served in school on day of visit	47.1	57.5	50.5	36.2
Drinking water	No facility for drinking water	36.9	40.1	37.0	35.9
	Facility but no drinking water available	9.9	6.4	12.3	19.5
	Drinking water available	53.2	53.5	50.7	44.7
	Total	100	100	100	100
Toilet	No toilet facility	20.8	30.8	11.9	12.0
	Facility but toilet not useable	53.9	34.1	38.9	38.0
	Toilet useable	25.3	35.1	49.3	50.0
	Total	100	100	100	100
Girls' toilet	No separate provision for girls' toilet	60.4	51.6	34.7	42.3
	Separate provision but locked	11.3	10.1	12.6	16.8
	Separate provision, unlocked but not useable	16.2	13.8	16.8	12.8
	Separate provision, unlocked and useable	12.2	24.5	35.8	28.2
	Total	100	100	100	100
Library	No library	87.0	75.0	65.4	76.0
	Library but no books being used by children on day of visit	6.7	16.9	26.1	19.6
	Library books being used by children on day of visit	6.3	8.2	8.5	4.4
	Total	100	100	100	100
Electricity	Electricity connection			57.5	62.8
	Of schools with electricity connection, % schools with electricity available on day of visit			72.8	46.2
Computer	No computer available for children to use	85.7	89.8	87.7	92.3
	Available but not being used by children on day of visit	6.4	7.0	11.4	6.4
	Computer being used by children on day of visit	8.0	3.2	1.0	1.3
	Total	100	100	100	100

Arunachal Pradesh RURAL

Data is not presented where sample size is insufficient.

Other school indicators

In each sampled village, the largest government school with primary sections is visited on the day of the survey. Information about schools in this report is based on these visits.

Table 18: Trends over time
% Schools with total enrollment of 60 or less
2010, 2014, 2016 and 2018

	2010	2014	2016	2018
All schools (Std I-IV/V and Std I-VII/VIII)	33.9	38.0	40.7	49.0

Table 19: Physical education and sports in schools 2018

% Schools with		All schools (Std I-IV/V and Std I-VII/VIII)
Dedicated time for physical education	Physical education period in the timetable	23.0
	No physical education period but dedicated time allotted	16.2
	No physical education period and no dedicated time allotted	60.8
	Total	100
Physical education teacher	Separate physical education teacher	16.2
	Other physical education teacher	12.2
	No physical education teacher	71.6
	Total	100
Playground	Playground inside the school premises	57.3
	Playground outside the school premises	13.3
	No accessible playground	29.3
	Total	100
Availability of any sports equipment		28.9
Supervised physical education activity observed on day of visit		8.3

Table 20: School Management Committee (SMC) in schools
2014, 2016 and 2018

	2014	2016	2018
% Schools which reported having an SMC	96.1	98.1	93.0

Of all schools that have an SMC, % schools that had the last SMC meeting

	2014	2016	2018
Before July	36.0	31.4	20.3
Between July and September	59.8	62.8	62.2
After September	4.3	5.8	17.5