

Nigeria Teacher Development Programme (TDP) Impact Evaluation of Output 1: In-Service Teacher Training Endline Survey 2017

Quantitative analysis: samples, weights and survey settings

June 2018

The below table lists all the possible types of analyses that could be undertaken with the TDP endline quantitative data and describes the sample on which these analyses should take place and the weights and survey settings to use for each.

In the third column, the sample on which each type of analysis (defined in the second column) should be performed is specified while in the fourth column the variable that identifies this sample is specified. The latter are dummy variables that are provided in the public use datasets. For example, in the school level dataset 'el_v2_1_school.dta' there are the following five sample identification variables:

- *n_school_int*: this dummy is equal to 1 for schools where school-level data from the head teacher interview (from modules C, M and N) was collected at baseline and endline; and 0 otherwise.
- *n_ht_int*: this dummy is equal to 1 for schools where head teacher-level data from the head teacher interview (from modules A, D, E, F, G, H, I, J, K, and L) was collected at baseline and endline; and 0 otherwise. Note that is for the cross-sectional sample of head teachers and NOT panel.
- *n_panel_int*: this dummy is equal to 1 for schools where the same head teacher was interviewed at baseline and endline (panel sample); and 0 otherwise.
- *n_panel_mot*: this dummy is equal to 1 for schools where the same head teacher was administered the motivation module at baseline and endline (panel sample); and 0 otherwise.
- *n_panel_teaching*: this dummy is equal to 1 for schools where the same head teacher was teaching primary 1-6 classes at both baseline and endline and was interviewed (panel sample); and 0 otherwise.

The fifth column in the table specifies the weight variable that must be used for each type of analysis while the sixth column specifies the variables that must be used to account for stratification, clustered sampling and finite population corrections. The final column indicates the actual sample size for each type of analysis. NOTE: These sample sizes are the maximum ones, they may be lower for particular variables for which there was unit non-response.

NO.	TYPE OF ANALYSIS AND INSTRUMENT	UNDERLYING SAMPLE	SAMPLE IDENTIFICATION VARIABLE	WEIGHT VARIABLE	SURVEY SETTING	SAMPLE SIZE
1	School level analysis from classroom attendance (CA) and teacher roster and background (TR) questionnaires -- ENDLINE CROSS-SECTION	All schools at endline where the CA and TR questionnaires were administered. NOTE: These two questionnaires were new at endline	None (all schools)	<i>n_school_wt</i>	Cluster variable: <i>school_id</i> Stratification variable: <i>strata</i> Finite population correction variable: <i>fpc_school</i>	329 for TR 330 for CA
2	School level analysis from head teacher (HT) questionnaire, modules C, M, and N -- BASELINE-ENDLINE NON-PANEL	All schools where the head teacher was interviewed	<i>n_school_int</i>	<i>n_ht_int_wt</i>	Cluster variable: <i>school_id</i> Stratification variable: <i>strata</i> Finite population correction variable: <i>fpc_school</i>	329
3	Head teacher level analysis from head teacher (HT) questionnaire, modules A, D, E, F, G, H, I, J, K, and L -- ENDLINE CROSS-SECTION	All head teachers interviewed at endline	<i>n_ht_int</i>	<i>n_ht_int_wt</i>	Cluster variable: <i>school_id</i> Stratification variable: <i>strata</i> Finite population correction variable: <i>fpc_school</i>	328
4	Head teacher level analysis from head teacher (HT) questionnaire, modules A, D, E, F, G, H, I, K, and L -- BASELINE-ENDLINE PANEL	All head teachers interviewed at baseline and endline	<i>n_panel_int</i>	<i>n_panel_int_wt</i>	Cluster variable: <i>school_id</i> Stratification variable: <i>strata</i> Finite population correction variable: <i>fpc_school</i>	134

5	Head teacher level analysis from head teacher (HT) questionnaire, module J -- BASELINE-ENDLINE PANEL, HTs WHO TEACH	All head teachers interviewed who completed the teacher motivation module J both at baseline and endline	<i>n_panel_mot</i>	<i>n_panel_mot_wt</i>	Cluster variable: <i>school_id</i> Stratification variable: <i>strata</i> Finite population correction variable: <i>fpc_school</i>	69
6	Pupil level analysis from pupil learning assessment and background (PT) questionnaire -- BASELINE-ENDLINE PANEL OR ENDLINE CROSS-SECTION	All pupils assessed and interviewed at endline	<i>n_panel_pup</i>	<i>n_panel_pup_wt</i>	Cluster variable: <i>school_id</i> Stratification variable: <i>strata</i> Finite population correction variable: <i>fpc_school</i> for first stage selection AND <i>fpc_pupil</i> for second stage selection	1,566
7	Teacher level analysis from teacher interview (TI) questionnaire -- BASELINE-ENDLINE PANEL OR ENDLINE CROSS-SECTION	All teachers interviewed at endline	<i>n_panel_int</i>	<i>n_panel_int_wt</i>	Cluster variable: <i>school_id</i> Stratification variable: <i>strata</i> Finite population correction variable: <i>fpc_school</i>	447
8	Teacher level analysis from teacher interview (TI) questionnaire, module J -- BASELINE-ENDLINE PANEL	All teachers interviewed at baseline and endline who completed the teacher motivation module J	<i>n_panel_mot</i>	<i>n_panel_mot_wt</i>	Cluster variable: <i>school_id</i> Stratification variable: <i>strata</i> Finite population correction variable: <i>fpc_school</i>	447
9	Classroom observation analysis from classroom observation (CO) questionnaire -- BASELINE-ENDLINE PANEL, ALL LESSONS	All head teachers and teachers who teach and whose lessons were observed both at baseline and endline. NOTE: This sample is for all observed lessons	<i>n_panel_obs</i>	<i>n_panel_obs_wt</i>	Cluster variable: <i>school_id</i> Stratification variable: <i>strata</i> Finite population correction variable: <i>fpc_school</i>	460

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10	Classroom observation analysis from classroom observation (CO) questionnaire -- BASELINE-ENDLINE PANEL, LESSONS THAT LASTED 9 MINUTES OR MORE	All head teachers and teachers who teach and whose lessons were observed both at baseline and endline. NOTE: This sample excludes observed lessons that were shorter than 9 minutes	<i>n_panel_obs_less9</i>	<i>n_panel_obs_less9_wt</i>	Cluster variable: <i>school_id</i> Stratification variable: <i>strata</i> Finite population correction variable: <i>fpc_school</i>	456
11	Head teacher and teacher level analysis from Teacher Development Needs Assessment (TDNA) -- BASELINE-ENDLINE PANEL	All head teachers and teachers assessed at baseline and endline	<i>n_panel_tdna</i>	<i>n_panel_tdna_wt</i>	Cluster variable: <i>school_id</i> Stratification variable: <i>strata</i> Finite population correction variable: <i>fpc_school</i>	556