# Early Grade Reading Assessment 2009

**Ministry of Education, Women's Affairs and Culture**

Report generated on: October 3, 2019

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# Overview

## Identification

ID NUMBER
SPC_TON_2009_EGRA_v01_M

## Overview

ABSTRACT
The 2009 Tonga Early Grade Reading Assessment (EGRA) was conducted in a sample of 1,203 students from 60 randomly-selected primary schools in the Kingdom of Tonga. The Tonga EGRA was carried out in November, 2009 by consultants and staff of the Ministry of Education, Women's Affairs and Culture (MEWAC) with financial support from the Australian Agency for International Development (AusAID), the New Zealand Agency for International Development (NZAID), and the Education for All - Fast Track Initiative (EFA-FTI). Technical assistance and management support was provided by the World Bank.

The Early Grade Reading Assessment (EGRA) is an oral student assessment designed to measure the most basic foundation skills for literacy acquisition in the early grades: recognizing letters of the alphabet, reading simple words, understanding sentences and paragraphs, and listening with comprehension.

The USAID Education Data for Decision Making (EdData II) project developed the EGRA methodology and has applied it in 11 countries and 19 languages. It has been adopted and used by other implementing partners in more than 30 other countries and more than 60 other languages. Data from EGRA have been used for feedback on teacher practice in rigorous but easy-to-understand ways. Many countries have shown an interest in using it as a springboard to improve reading, and have gone on to redesign their teacher training around reading.

KIND OF DATA
Sample survey data [ssd]

UNITS OF ANALYSIS
student, teacher, clusters of schools

## Scope

NOTES
National diagnostic assessment of basic reading skills in grades 1 to 3 in Tongan.

## Coverage

GEOGRAPHIC COVERAGE
National representative

UNIVERSE
All primary schools in the country.

## Producers and Sponsors

PRIMARY INVESTIGATOR(S)

| Name | Affiliation |
|---|---|
| Ministry of Education | |

| | |
|---|---|
| Women’s Affairs and Culture | |

OTHER PRODUCER(S)

| Name | Affiliation | Role |
|---|---|---|
| World Bank | | Technical assistance and management support |

FUNDING

| Name | Abbreviation | Role |
|---|---|---|
| Global Partnership for Education | GPE | Financial support |
| Australian Agency for International Development | AusAID | Financial support |
| New Zealand Agency for International Development | NZAID | Financial support |
| Education for All – Fast Track Initiative | EFA-FTI | Financial support |

## Metadata Production

METADATA PRODUCED BY

| Name | Abbreviation | Affiliation | Role |
|---|---|---|---|
| Development Data Group | DECDG | The World Bank | Documentation of the DDI |

DATE OF METADATA PRODUCTION
2015-07-28

DDI DOCUMENT VERSION
Version 01 (July 2015)

DDI DOCUMENT ID
DDI_SPC_TON_2009_EGRA_v01_M

# Sampling

## Sampling Procedure

Random stratification of schools by district; random selection of students among all classrooms in a grade tested.

On October 12 and 13, 2009, a series of preparatory meetings took place to discuss the scope and purpose of the survey. MEWAC was mainly interested in generating baseline data on average reading skills in Classes 1 to 3 to (a) identify areas where additional instruction is needed, to (b) inform the establishment of reference reading standards that can help educators monitor student's reading progression throughout the school year. With advice from the World Bank, MEWAC chose a national representative sample with contrast groups according to class level (Classes 1, 2, and 3). The final sample design did not incorporate contrast groups by school type and regions, thus, survey results can only suggest estimates by class level and gender.

The target population was defined as students enrolled in Classes 1 to 3 in primary schools implementing the national curriculum in Tongan language. Using the 2008 School Census completed in March of 2009 as a sample frame, a sample of 60 schools was selected using a stratified random design with proportional allocation based on school type -single-class (SCT), composite-class (CCT), and multi-class (MCT)- and region, to ensure all school types and regions would have a probability of selection equal to their actual distribution in the country. The final sample consisted of 1,203 students -607 girls and 596 boys- which reflects the gender parity characteristics of the target population.

## Response Rate

For the 171 teachers surveyed, the overall response rates to the survey items are above 86%. For the 1,203 students in the sample, the overall survey response rates are above 93%.

# Questionnaires

## Overview

Tonga EGRA Student test, student questionnaire, teacher questionnaire, classroom observation snapshot.

# Data Collection

## Data Collection Dates

| Start | End | Cycle |
|---|---|---|
| 2009-11-09 | 2009-12-12 | N/A |

## Data Collection Mode

Face-to-face [f2f]

## Data Collection Notes

Data collection took place between November 09 and December 12, 2009. Over a period of 5 weeks, teams of enumerators and supervisors visited sample schools in the country. Complete survey documents were brought back to Nuku'alofa by the TEGRA team members for marking.

## Questionnaires

Tonga EGRA Student test, student questionnaire, teacher questionnaire, classroom observation snapshot.

# Data Processing

## Data Editing

Data entry took place between January 25 and February 05, 2010.

# Data Appraisal

No content available

# File Description

# Variable List

## tegra

| | |
|---|---|
| Content | |
| Cases | 0 |
| Variable(s) | 184 |
| Structure | Type:<br>Keys: () |
| Version | |
| Producer | |
| Missing Data | |

## Variables

| ID | NAME | LABEL | TYPE | FORMAT | QUESTION |
|---|---|---|---|---|---|
| V1 | operator | Data entry operator | discrete | character | |
| V2 | date_survey | Date student survey was administered | contin | numeric | |
| V3 | teacher_code | Unique teacher identifier | contin | numeric | |
| V4 | school_no | EGRA School number | contin | numeric | |
| V5 | school_name | EGRA School name | discrete | character | |
| V6 | school_type | School type 1=SCT; 2=CCT; 3=MCT | discrete | numeric | |
| V7 | ts1 | S1 Teacher gender 1=Male; 2=Female | discrete | numeric | |
| V8 | ts2 | S2 Teacher age as reported | contin | numeric | |
| V9 | ts3 | S3 School & grades teaching this year | discrete | numeric | |
| V10 | ts4_1a | S4_1a | contin | numeric | |
| V11 | ts4_1b | S4_1b | contin | numeric | |
| V12 | ts4_2a | S4_2a | contin | numeric | |
| V13 | ts4_2b | S4_2b | contin | numeric | |
| V14 | ts4_3a | S4_3a | contin | numeric | |
| V15 | ts4_3b | S4_3b | contin | numeric | |
| V16 | ts5 | S5 Teacher holds Trained Teacher Certificate 0=N, 1=Y, 9=NR | discrete | numeric | |
| V17 | ts6 | S6 Years of experience (total) as reported | contin | numeric | |
| V18 | ts7 | S7 Years of experience (as certified teacher) as reported | contin | numeric | |
| V19 | ts8 | S8 School has library 0=N, 1=Y, 9=NR | discrete | numeric | |
| V20 | ts9 | S9 If S8=1 - 1= rarely; 2=half the time; 3=most not all lessons; 4=every lesson | discrete | numeric | |
| V21 | ts10 | S10 If S8=1 Teacher supervises students 0=N, 1=Y, 9=NR | discrete | numeric | |
| V22 | ts11 | S11 School library part of School Grant Program 0=N, 1=Y, 9=NR | discrete | numeric | |
| V23 | ts12 | S12 Learning corner in school or classroom 0=N, 1=Y, 9=NR | discrete | numeric | |
| V24 | ts13 | S13 School has functioning PTA 0=N, 1=Y, 9=NR | discrete | numeric | |
| V25 | ts14 | S14 Teacher meets student's parents 0=N, 1=Y, 9=NR | discrete | numeric | |
| V26 | ts15 | S15 If S14=1, 1=1/term or less; 2= 2/term; 3=3/term; 4=1/month or more | discrete | numeric | |

| | | | | |
|---|---|---|---|---|
| V27 | ts16a | S16a If S14=1, teacher suggestions on parent/PTA involvement (as reported) | discrete | character |
| V28 | ts16b | S16b If S14=1, teacher suggestions on parent/PTA involvement (as reported) | discrete | character |
| V29 | ts17 | S17 Teacher has recommended Tongan Reading Texts 0=N, 1=Y | discrete | numeric |
| V30 | ts18 | S18 if S17=0 What does teacher use? (as reported) | discrete | character |
| V31 | ts19 | S19 if S17=1 Teacher uses reading text 0=N, 1=Y, 9=NR | discrete | numeric |
| V32 | ts20 | S20 if S19=1, 1=rarely; 2=half time; 3=most not all lessons; 4=every lesson | discrete | numeric |
| V33 | ts21 | S21 If S19=1, 1=Not very useful; 2=Moderately useful; 3=Very useful | discrete | numeric |
| V34 | ts22 | S22 Has teacher guide for reading instruction 0=N, 1=Y, 9=NR | discrete | numeric |
| V35 | ts23 | S23 If S22=0 What does teacher use? (as reported) | discrete | character |
| V36 | ts24 | S24 if S22=1, 1=rarely; 2=half time; 3=most not all lessons; 4=every lesson | discrete | numeric |
| V37 | ts25 | S25 if S22=1, 1=Not very useful; 2=Moderately useful; 3=Very useful | discrete | numeric |
| V38 | ts26a | S26a If S22=1, teacher suggestions on reading guide improvements (as reported) | discrete | character |
| V39 | ts26b | S26b If S22=1, teacher suggestions on reading guide improvements (as reported) | discrete | character |
| V40 | ts27 | S27 Attended in-service training or PD in last 3 years 0=N, 1=Y, 9=NR | discrete | numeric |
| V41 | ts28 | S28 Received training in reading instruction in last 3 years 0=N, 1=Y, 9=NR | discrete | numeric |
| V42 | ts29_1a | S29_1a If S28=1, Year of first training | discrete | numeric |
| V43 | ts29_1b | S29_1b If s28=1, Year of second training | discrete | numeric |
| V44 | ts29_2 | S29_2 If s28=1, Approx hours of training (total) | contin | numeric |
| V45 | ts30 | S30 If S28=1, Suggestions on teacher training improvements (as reported) | discrete | character |
| V46 | ts31 | S31 Walks to school 1=60+ min; 2=46-60 ; 3=31-45 ; 4=16-30 ; 5=up to 15 | discrete | numeric |
| V47 | ts32 | S32 The whole class repeated sentences teacher said first | discrete | numeric |
| V48 | ts33 | S33 Students copied down text from the chalkboard | discrete | numeric |
| V49 | ts34 | S34 Students retold a story they had read | discrete | numeric |
| V50 | ts35 | S35 Students sounded out unfamiliar words | discrete | numeric |
| V51 | ts36 | S36 Students learned meanings of new words | discrete | numeric |
| V52 | ts37 | S37 Students read aloud to teacher or to other students | discrete | numeric |
| V53 | ts38 | S38 Students were assigned reading to do on their own during class | discrete | numeric |
| V54 | ts39 | S39 Teacher uses written evaluations to monitor progress | discrete | numeric |
| V55 | ts40 | S40 Teacher uses oral evaluations to monitor progress | discrete | numeric |
| V56 | ts41 | S41 Teacher reviews portfolios and other projects | discrete | numeric |
| V57 | ts42 | S42 Teacher reviews copy books | discrete | numeric |
| V58 | ts43 | S43 Teacher reviews homework | discrete | numeric |

| | | | | |
|---|---|---|---|---|
| V59 | ts44 | S44 Other methods to monitor progress (as reported) | discrete | character |
| V60 | ts45 | S45 Grade students should read aloud a short passage with few mistakes | discrete | numeric |
| V61 | ts46 | S46 Grade students should write their name | discrete | numeric |
| V62 | ts47 | S47 Grade students should understand stories they read | discrete | numeric |
| V63 | ts48 | S48 Grade students should recognize & say letter names | discrete | numeric |
| V64 | ts49 | S49 Grade students should sound out unfamiliar words | discrete | numeric |
| V65 | ts50 | S50 Grade students should understand stories they hear | discrete | numeric |
| V66 | ts51 | S51 Grade students should recite alphabet | discrete | numeric |
| V67 | year | | discrete | numeric |
| V68 | month | | discrete | numeric |
| V69 | day | | discrete | numeric |
| V70 | u | | discrete | numeric |
| V71 | datesurveyteacher | Date teacher completed survey | discrete | character |
| V72 | enumerator | Name of enumerator administering survey | discrete | character |
| V73 | student_code | Unique EGRA student ID | contin | numeric |
| V74 | survey_no | Survey ID | contin | numeric |
| V75 | region | Region 1=Tongatapu TBU; 2=Eua EUA; 3=Hapai HAP; 4=Vavau VAV | discrete | numeric |
| V76 | class | Class (i.e., Grade) where 1=1st Grade; 2= 2nd Grade; 3=3rd Grade | discrete | numeric |
| V77 | dob_orig | DOB_orig | discrete | character |
| V78 | dob | DOB | contin | numeric |
| V79 | gender | Gender 1=Girl ; 2=Boy | discrete | numeric |
| V80 | survey_start | Time survey started | discrete | character |
| V81 | survey_end | Time survey ended | discrete | character |
| V82 | total_time | Total time survey was administered | discrete | character |
| V83 | s1_1 | Time (in seconds) student spent reading letters | contin | numeric |
| V84 | s1_2 | Total letters read | contin | numeric |
| V85 | s1_3 | Number of CORRECT letters read during exercise | contin | numeric |
| V86 | s1_4 | Number of INCORRECT letters read during exercise | contin | numeric |
| V87 | s2_1 | Initial sound: niu | discrete | numeric |
| V88 | s2_2 | Initial sound: tali | discrete | numeric |
| V89 | s2_3 | Initial sound: kovi | discrete | numeric |
| V90 | s2_4 | Initial sound: ifo | discrete | numeric |
| V91 | s2_5 | Initial sound: uta | discrete | numeric |
| V92 | s2_6 | Initial sound: ou | discrete | numeric |
| V93 | s2_7 | Initial sound: hao | discrete | numeric |
| V94 | s2_8 | Initial sound: ako | discrete | numeric |
| V95 | s2_9 | Initial sound: ngu | discrete | numeric |
| V96 | s2_10 | Initial sound: 'eni | discrete | numeric |
| V97 | s3_1 | Time (in seconds) student spent sounding letters | contin | numeric |

| | | | | |
|---|---|---|---|---|
| V98 | s3_2 | Total letter sounds student sounded | contin | numeric |
| V99 | s3_3 | Number of CORRECT letter sounds voiced during exercise | contin | numeric |
| V100 | s3_4 | Number of INCORRECT letter sounds voiced during exercise | contin | numeric |
| V101 | s4_1 | Time (in seconds) student spent reading familiar words | contin | numeric |
| V102 | s4_2 | Total familiar words read | contin | numeric |
| V103 | s4_3 | Number of CORRECT familiar words read during exercise | contin | numeric |
| V104 | s4_4 | Number of INCORRECT familiar words read during exercise | discrete | numeric |
| V105 | s5_1 | Time (in seconds) student spent reading unfamiliar words | discrete | numeric |
| V106 | s5_2 | Total unfamiliar words read | contin | numeric |
| V107 | s5_3 | Number of CORRECT unfamiliar words read during exercise | contin | numeric |
| V108 | s5_4 | Number of INCORRECT unfamiliar words read during exercise | discrete | numeric |
| V109 | s6_1 | Time (in seconds) student spent reading connected text | contin | numeric |
| V110 | s6_2 | Total words read in connected text | contin | numeric |
| V111 | s6_3 | Number of CORRECT words read in connected text | contin | numeric |
| V112 | s6_4 | Number of INCORRECT words read in connected text | discrete | numeric |
| V113 | s6_5 | RC Q1: How many live in Malakai's home? Five | discrete | numeric |
| V114 | s6_6 | RC Q2: Where did Malakai and Mina go? To the shop | discrete | numeric |
| V115 | s6_7 | RC Q3: What happened to Mina? She fell and hurt herself | discrete | numeric |
| V116 | s6_8 | RC Q4: Why was she hurt? Malakai challenged her to a race | discrete | numeric |
| V117 | s6_9 | RC Q5: Who fixed Mina's wound? Their grandparent | discrete | numeric |
| V118 | s7_1 | LC Q1 Who's Peta's friend? Siale | discrete | numeric |
| V119 | s7_2 | LC Q2 Who wanted to eat Mangoes? Peta | discrete | numeric |
| V120 | s7_3 | LC Q3 What where they going to throw to the trees? Sticks/stones | discrete | numeric |
| V121 | s7_4 | LC Q4 What where they throwing stones/sticks to the trees? to get the mangoes | discrete | numeric |
| V122 | s7_5 | LC Q5 Why did Siale refused? The neighbors would be mad at them | discrete | numeric |
| V123 | s8_1 | W: capital H and glottal stop | discrete | numeric |
| V124 | s8_2 | W: correct spelling kaukau | discrete | numeric |
| V125 | s8_3 | W: spacing | discrete | numeric |
| V126 | s8_4 | W: glottal stop | discrete | numeric |
| V127 | s8_5 | W: macron | discrete | numeric |
| V128 | s8_6 | W: direction | discrete | numeric |
| V129 | s8_7 | W: full stop | discrete | numeric |
| V130 | s9_1 | Age of student (as reported) | contin | numeric |
| V131 | s9_2 | Month in DOB (as reported) | contin | numeric |
| V132 | s9_3_1 | Student speaks same language at home as in school 0=N, 1=Y, 9=NR | discrete | numeric |
| V133 | s9_3_2 | If s9_3_1=0, 1=English; 2=Tongan; 3=Other; 9=NR | discrete | numeric |
| V134 | s9_3_2a | If s9_3_2=3, as reported | discrete | character |
| V135 | s9_4 | Somebody else in family can read | discrete | numeric |

| | | | | |
|---|---|---|---|---|
| V136 | s9_5_1 | If S9_4=1, 1=Mother | discrete | numeric |
| V137 | s9_5_2 | If S9_4=1, 2=Father | discrete | numeric |
| V138 | s9_5_3 | If S9_4=1, 3=Brother or sister | discrete | numeric |
| V139 | s9_5_4 | If S9_4=1, 4=Other | discrete | numeric |
| V140 | s9_5_9 | If S9_4=1, 9=NR | discrete | numeric |
| V141 | s9_6 | Did you go to kindergarden? 0=N, 1=Y, 9=NR | discrete | numeric |
| V142 | s9_7 | THIS year, you are in 1=Class 1; 2=Class 2; 3=Class 3; 9=NR | discrete | numeric |
| V143 | s9_8 | LAST year, you were in 0=Not in schl; 1=1st G; 2=2nd G; 3=3rd G; 8=Kinder; 9=NR | discrete | numeric |
| V144 | s9_9 | LAST year, absent >1 week 0=N, 1=Y, 9=NR | discrete | numeric |
| V145 | s9_10 | Student has school reader 0=N, 1=Y, 9=NR | discrete | numeric |
| V146 | s9_11 | Student has books (other than school reader) at home 0=N, 1=Y, 9=NR | discrete | numeric |
| V147 | s9_12_1 | If s9_11=1, 1=Tongan | discrete | numeric |
| V148 | s9_12_2 | If s9_11=1, 2=English | discrete | numeric |
| V149 | s9_12_3 | If s9_11=1, 2=English | discrete | numeric |
| V150 | s9_12_9 | If s9_11=1, 9=NR | discrete | numeric |
| V151 | s9_13 | Student does homework 0=N; 1=Y; 9=NR | discrete | numeric |
| V152 | s9_14 | Student receives help for homework 0=N; 1=Y; 9=NR | discrete | numeric |
| V153 | s9_15_1 | If s9_14=1, 1=Mother | discrete | numeric |
| V154 | s9_15_2 | If s9_14=1, 1=Father | discrete | numeric |
| V155 | s9_15_3 | If s9_14=1, 3=Brother/sister | discrete | numeric |
| V156 | s9_15_4 | If s9_14=1, 4=Other | discrete | numeric |
| V157 | s9_15_9 | If s9_14=1, 9=NR | discrete | numeric |
| V158 | s9_16 | Radio 0=N; 1=Y; 9=NR | discrete | numeric |
| V159 | s9_17 | Landline 0=N; 1=Y; 9=NR | discrete | numeric |
| V160 | s9_18 | Mobile phone 0=N; 1=Y; 9=NR | discrete | numeric |
| V161 | s9_19 | Electricity 0=N; 1=Y; 9=NR | discrete | numeric |
| V162 | s9_20 | TV 0=N; 1=Y; 9=NR | discrete | numeric |
| V163 | s9_21 | TV SKY 0=N; 1=Y; 9=NR | discrete | numeric |
| V164 | s9_22 | Refrigerator 0=N; 1=Y; 9=NR | discrete | numeric |
| V165 | s9_23 | Toilet inside house 0=N; 1=Y; 9=NR | discrete | numeric |
| V166 | s9_24 | Vehicle 0=N; 1=Y; 9=NR | discrete | numeric |
| V167 | s9_25 | Boat 0=N; 1=Y; 9=NR | discrete | numeric |
| V168 | s9_26 | Walls 1=Brick; 2=timber; 3=Corrugated iron; 4=Hardboard; 5=fale tonga; 9=NR | discrete | numeric |
| V169 | s9_27 | Cook 1=gas; 2=kerosene; 3=fire/outside house; 9=NR | discrete | numeric |
| V170 | s9_28 | Access to water 1=house/in premises; 2=neighbour's; 3=other; 9=NR | discrete | numeric |
| V171 | yearofb | | discrete | numeric |
| V172 | monthofb | | discrete | numeric |
| V173 | dayofb | | contin | numeric |

| | | | | |
|---|---|---|---|---|
| V174 | v | | discrete | numeric |
| V175 | birthday | Date of Birth | discrete | character |
| V176 | datesurvey | Date of Survey | discrete | character |
| V177 | age | Exact Age in Years | contin | numeric |
| V178 | age1 | Student age in years (rounded, computed) | contin | numeric |
| V179 | merge | | discrete | numeric |
| V180 | LCPM | Letters Correct Per Minute | contin | numeric |
| V181 | SCPM | Sounds Correct Per Minute | contin | numeric |
| V182 | SWCPM | Sight Words Correct Per Minute | contin | numeric |
| V183 | NWCPM | Invented Words Correct Per Minute | contin | numeric |
| V184 | CWCPM | Connected Words Correct Per Minute | contin | numeric |

## Data entry operator (operator)
## File: tegra

**Overview**

Type: Discrete
Format: character
Width: 8

Valid cases: 0
Invalid: 0

## Date student survey was administered (date_survey)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 8
Decimals: 0
Range: 9112009-27112009

Valid cases: 0
Invalid: 0

## Unique teacher identifier (teacher_code)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 5
Decimals: 0
Range: 15311-44213

Valid cases: 0
Invalid: 0

## EGRA School number (school_no)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 4
Decimals: 0
Range: 1531-4421

Valid cases: 0
Invalid: 0

## EGRA School name (school_name)
## File: tegra

**Overview**

Type: Discrete
Format: character
Width: 20

Valid cases: 0
Invalid: 0

## School type 1=SCT; 2=CCT; 3=MCT (school_type)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-3

Valid cases: 0
Invalid: 0

## S1 Teacher gender 1=Male; 2=Female (ts1)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-2

Valid cases: 0
Invalid: 0

## S2 Teacher age as reported (ts2)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 23-57

Valid cases: 0
Invalid: 0

## S3 School & grades teaching this year (ts3)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-8

Valid cases: 0
Invalid: 0

## S4_1a (ts4_1a)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 0-28

Valid cases: 0
Invalid: 0

## S4_1b (ts4_1b)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 1-26

Valid cases: 0
Invalid: 0

## S4_2a (ts4_2a)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 0-27

Valid cases: 0
Invalid: 0

## S4_2b (ts4_2b)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 1-35

Valid cases: 0
Invalid: 0

## S4_3a (ts4_3a)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 0-34

Valid cases: 0
Invalid: 0

## S4_3b (ts4_3b)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 1-28

Valid cases: 0
Invalid: 0

## S5 Teacher holds Trained Teacher Certificate 0=N, 1=Y, 9=NR (ts5)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## S6 Years of experience (total) as reported (ts6)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 1-36

Valid cases: 0
Invalid: 0

## S7 Years of experience (as certified teacher) as reported (ts7)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 0-35

Valid cases: 0
Invalid: 0

## S8 School has library 0=N, 1=Y, 9=NR (ts8)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## S9 If S8=1 - 1= rarely; 2=half the time; 3=most not all lessons; 4=every lesson (ts9)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-9

Valid cases: 0
Invalid: 0

## S10 If S8=1 Teacher supervises students 0=N, 1=Y, 9=NR (ts10)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 0
Invalid: 0

## S11 School library part of School Grant Program 0=N, 1=Y, 9=NR (ts11)

## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## S12 Learning corner in school or classroom 0=N, 1=Y, 9=NR (ts12)

## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## S13 School has functioning PTA 0=N, 1=Y, 9=NR (ts13)

## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## S14 Teacher meets student's parents 0=N, 1=Y, 9=NR (ts14)

## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 0
Invalid: 0

## S15 If S14=1, 1=1/term or less; 2= 2/term; 3=3/term; 4=1/month or more (ts15)

## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-4

Valid cases: 0
Invalid: 0

## S16a If S14=1, teacher suggestions on parent/PTA involvement (as reported) (ts16a)
## File: tegra

**Overview**

Type: Discrete
Format: character
Width: 69

Valid cases: 0
Invalid: 0

## S16b If S14=1, teacher suggestions on parent/PTA involvement (as reported) (ts16b)
## File: tegra

**Overview**

Type: Discrete
Format: character
Width: 77

Valid cases: 0
Invalid: 0

## S17 Teacher has recommended Tongan Reading Texts 0=N, 1=Y (ts17)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 0
Invalid: 0

## S18 if S17=0 What does teacher use? (as reported) (ts18)
## File: tegra

**Overview**

Type: Discrete
Format: character
Width: 75

Valid cases: 0
Invalid: 0

## S19 if S17=1 Teacher uses reading text 0=N, 1=Y, 9=NR (ts19)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 0
Invalid: 0

## S20 if S19=1, 1=rarely; 2=half time; 3=most not all lessons; 4=every lesson (ts20)

## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-4

Valid cases: 0
Invalid: 0

## S21 If S19=1, 1=Not very useful; 2=Moderately useful; 3=Very useful (ts21)

## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 2-3

Valid cases: 0
Invalid: 0

## S22 Has teacher guide for reading instruction 0=N, 1=Y, 9=NR (ts22)

## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 0
Invalid: 0

## S23 If S22=0 What does teacher use? (as reported) (ts23)

## File: tegra

**Overview**

Type: Discrete
Format: character
Width: 63

Valid cases: 0
Invalid: 0

## S24 if S22=1, 1=rarely; 2=half time; 3=most not all lessons; 4=every lesson (ts24)

## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-4

Valid cases: 0
Invalid: 0

## S25 if S22=1, 1=Not very useful; 2=Moderately useful; 3=Very useful (ts25)

## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-3

Valid cases: 0
Invalid: 0

## S26a If S22=1, teacher suggestions on reading guide improvements (as reported) (ts26a)

## File: tegra

**Overview**

Type: Discrete
Format: character
Width: 71

Valid cases: 0
Invalid: 0

## S26b If S22=1, teacher suggestions on reading guide improvements (as reported) (ts26b)

## File: tegra

**Overview**

Type: Discrete
Format: character
Width: 65

Valid cases: 0
Invalid: 0

## S27 Attended in-service training or PD in last 3 years 0=N, 1=Y, 9=NR (ts27)

## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 0
Invalid: 0

## S28 Received training in reading instruction in last 3 years 0=N, 1=Y, 9=NR (ts28)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 0
Invalid: 0

## S29_1a If S28=1, Year of first training (ts29_1a)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 4
Decimals: 0
Range: 1993-2009

Valid cases: 0
Invalid: 0

## S29_1b If s28=1, Year of second training (ts29_1b)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 4
Decimals: 0
Range: 2004-2009

Valid cases: 0
Invalid: 0

## S29_2 If s28=1, Approx hours of training (total) (ts29_2)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 3
Decimals: 0
Range: 1-365

Valid cases: 0
Invalid: 0

## S30 If S28=1, Suggestions on teacher training improvements (as reported) (ts30)
## File: tegra

**Overview**

Type: Discrete
Format: character
Width: 90

Valid cases: 0
Invalid: 0

## S31 Walks to school 1=60+ min; 2=46-60 ; 3=31-45 ; 4=16-30 ; 5=up to 15 (ts31)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-5

Valid cases: 0
Invalid: 0

## S32 The whole class repeated sentences teacher said first (ts32)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-3

Valid cases: 0
Invalid: 0

## S33 Students copied down text from the chalkboard (ts33)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-3

Valid cases: 0
Invalid: 0

## S34 Students retold a story they had read (ts34)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-3

Valid cases: 0
Invalid: 0

## S35 Students sounded out unfamiliar words (ts35)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-3

Valid cases: 0
Invalid: 0

## S36 Students learned meanings of new words (ts36)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-3

Valid cases: 0
Invalid: 0

## S37 Students read aloud to teacher or to other students (ts37)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-3

Valid cases: 0
Invalid: 0

## S38 Students were assigned reading to do on their own during class (ts38)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-3

Valid cases: 0
Invalid: 0

## S39 Teacher uses written evaluations to monitor progress (ts39)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-3

Valid cases: 0
Invalid: 0

## S40 Teacher uses oral evaluations to monitor progress (ts40)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-3

Valid cases: 0
Invalid: 0

## S41 Teacher reviews portfolios and other projects (ts41)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-3

Valid cases: 0
Invalid: 0

## S42 Teacher reviews copy books (ts42)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-3

Valid cases: 0
Invalid: 0

## S43 Teacher reviews homework (ts43)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-3

Valid cases: 0
Invalid: 0

## S44 Other methods to monitor progress (as reported) (ts44)
## File: tegra

**Overview**

Type: Discrete
Format: character
Width: 77

Valid cases: 0
Invalid: 0

## S45 Grade students should read aloud a short passage with few mistakes (ts45)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-8

Valid cases: 0
Invalid: 0

## S46 Grade students should write their name (ts46)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-7

Valid cases: 0
Invalid: 0

## S47 Grade students should understand stories they read (ts47)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-7

Valid cases: 0
Invalid: 0

## S48 Grade students should recognize & say letter names (ts48)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-7

Valid cases: 0
Invalid: 0

## S49 Grade students should sound out unfamiliar words (ts49)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-7

Valid cases: 0
Invalid: 0

## S50 Grade students should understand stories they hear (ts50)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-7

Valid cases: 0
Invalid: 0

## S51 Grade students should recite alphabet (ts51)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-8

Valid cases: 0
Invalid: 0

## (year)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 4
Decimals: 0
Range: 2009-2009

Valid cases: 0
Invalid: 0

## (month)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 2
Decimals: 0
Range: 11-11

Valid cases: 0
Invalid: 0

## (day)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 2
Decimals: 0
Range: 9-27

Valid cases: 0
Invalid: 0

## (u)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-1

Valid cases: 0
Invalid: 0

## Date teacher completed survey (datesurveyteacher)
## File: tegra

**Overview**

Type: Discrete
Format: character
Width: 10

Valid cases: 0

## Name of enumerator administering survey (enumerator)
## File: tegra

**Overview**

Type: Discrete
Format: character
Width: 11

Valid cases: 0
Invalid: 0

## Unique EGRA student ID (student_code)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 8
Decimals: 0
Range: 186222-44010731

Valid cases: 0
Invalid: 0

## Survey ID (survey_no)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 4
Decimals: 0
Range: 1-1203

Valid cases: 0
Invalid: 0

## Region 1=Tongatapu TBU; 2=Eua EUA; 3=Hapai HAP; 4=Vavau VAV (region)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-4

Valid cases: 0
Invalid: 0

## Class (i.e., Grade) where 1=1st Grade; 2= 2nd Grade; 3=3rd Grade (class)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-3

Valid cases: 0
Invalid: 0

## DOB_orig (dob_orig)
## File: tegra

**Overview**

Type: Discrete
Format: character
Width: 11

Valid cases: 0
Invalid: 0

## DOB (dob)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 8
Decimals: 0
Range: 1012002-31122003

Valid cases: 0
Invalid: 0

## Gender 1=Girl ; 2=Boy (gender)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-2

Valid cases: 0
Invalid: 0

## Time survey started (survey_start)
## File: tegra

**Overview**

Type: Discrete
Format: character
Width: 5

Valid cases: 0
Invalid: 0

## Time survey ended (survey_end)
## File: tegra

**Overview**

Type: Discrete
Format: character
Width: 5

Valid cases: 0
Invalid: 0

## Total time survey was administered (total_time)
## File: tegra

**Overview**

Type: Discrete
Format: character
Width: 4

Valid cases: 0
Invalid: 0

## Time (in seconds) student spent reading letters (s1_1)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 20-60

Valid cases: 0
Invalid: 0

## Total letters read (s1_2)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 3
Decimals: 0
Range: 5-100

Valid cases: 0
Invalid: 0

## Number of CORRECT letters read during exercise (s1_3)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 3
Decimals: 0
Range: 0-100

Valid cases: 0
Invalid: 0

## Number of INCORRECT letters read during exercise (s1_4)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 0-43

Valid cases: 0
Invalid: 0

## Initial sound: niu (s2_1)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-9

Valid cases: 0
Invalid: 0

## Initial sound: tali (s2_2)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-9

Valid cases: 0
Invalid: 0

## Initial sound: kovi (s2_3)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-9

Valid cases: 0
Invalid: 0

## Initial sound: ifo (s2_4)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-9

Valid cases: 0
Invalid: 0

## Initial sound: uta (s2_5)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-9

Valid cases: 0
Invalid: 0

## Initial sound: ou (s2_6)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-9

Valid cases: 0
Invalid: 0

## Initial sound: hao (s2_7)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-9

Valid cases: 0
Invalid: 0

## Initial sound: ako (s2_8)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-9

Valid cases: 0
Invalid: 0

## Initial sound: ngu (s2_9)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-9

Valid cases: 0
Invalid: 0

## Initial sound: 'eni (s2_10)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-9

Valid cases: 0
Invalid: 0

## Time (in seconds) student spent sounding letters (s3_1)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 25-60

Valid cases: 0
Invalid: 0

## Total letter sounds student sounded (s3_2)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 3
Decimals: 0
Range: 8-100

Valid cases: 0
Invalid: 0

## Number of CORRECT letter sounds voiced during exercise (s3_3)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 0-89

Valid cases: 0
Invalid: 0

## Number of INCORRECT letter sounds voiced during exercise (s3_4)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 0-63

Valid cases: 0
Invalid: 0

## Time (in seconds) student spent reading familiar words (s4_1)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 29-60

Valid cases: 0
Invalid: 0

## Total familiar words read (s4_2)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 3
Decimals: 0
Range: 5-100

Valid cases: 0
Invalid: 0

## Number of CORRECT familiar words read during exercise (s4_3)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 3
Decimals: 0
Range: 0-100

Valid cases: 0
Invalid: 0

## Number of INCORRECT familiar words read during exercise (s4_4)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 2
Decimals: 0
Range: 0-14

Valid cases: 0
Invalid: 0

## Time (in seconds) student spent reading unfamiliar words (s5_1)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 2
Decimals: 0
Range: 45-60

Valid cases: 0
Invalid: 0

## Total unfamiliar words read (s5_2)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 3-57

Valid cases: 0
Invalid: 0

## Number of CORRECT unfamiliar words read during exercise (s5_3)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 1-50

Valid cases: 0
Invalid: 0

## Number of INCORRECT unfamiliar words read during exercise (s5_4)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 2
Decimals: 0
Range: 0-19

Valid cases: 0
Invalid: 0

## Time (in seconds) student spent reading connected text (s6_1)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 2-60

Valid cases: 0
Invalid: 0

## Total words read in connected text (s6_2)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 2-60

Valid cases: 0
Invalid: 0

## Number of CORRECT words read in connected text (s6_3)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 0-60

Valid cases: 0
Invalid: 0

## Number of INCORRECT words read in connected text (s6_4)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 2
Decimals: 0
Range: 0-16

Valid cases: 0
Invalid: 0

## RC Q1: How many live in Malakai's home? Five (s6_5)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-9

Valid cases: 0
Invalid: 0

## RC Q2: Where did Malakai and Mina go? To the shop (s6_6)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-9

Valid cases: 0
Invalid: 0

## RC Q3: What happened to Mina? She fell and hurt herself (s6_7)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-9

Valid cases: 0
Invalid: 0

## RC Q4: Why was she hurt? Malakai challenged her to a race (s6_8)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-9

Valid cases: 0
Invalid: 0

## RC Q5: Who fixed Mina's wound? Their grandparent (s6_9)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-9

Valid cases: 0
Invalid: 0

## LC Q1 Who's Peta's friend? Siale (s7_1)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-9

Valid cases: 0
Invalid: 0

## LC Q2 Who wanted to eat Mangoes? Peta (s7_2)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-9

Valid cases: 0
Invalid: 0

## LC Q3 What where they going to throw to the trees? Sticks/stones (s7_3)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-9

Valid cases: 0
Invalid: 0

## LC Q4 What where they throwing stones/sticks to the trees? to get the mangoes (s7_4)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-9

Valid cases: 0
Invalid: 0

## LC Q5 Why did Siale refused? The neighbors would be mad at them (s7_5)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-9

Valid cases: 0
Invalid: 0

## W: capital H and glottal stop (s8_1)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## W: correct spelling kaukau (s8_2)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## W: spacing (s8_3)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## W: glottal stop (s8_4)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## W: macron (s8_5)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## W: direction (s8_6)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## W: full stop (s8_7)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## Age of student (as reported) (s9_1)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 4-99

Valid cases: 0
Invalid: 0

## Month in DOB (as reported) (s9_2)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 1-99

Valid cases: 0
Invalid: 0

## Student speaks same language at home as in school 0=N, 1=Y, 9=NR (s9_3_1)

## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## If s9_3_1=0, 1=English; 2=Tongan; 3=Other; 9=NR (s9_3_2)

## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-9

Valid cases: 0
Invalid: 0

## If s9_3_2=3, as reported (s9_3_2a)

## File: tegra

**Overview**

Type: Discrete
Format: character
Width: 6

Valid cases: 0
Invalid: 0

## Somebody else in family can read (s9_4)

## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## If S9_4=1, 1=Mother (s9_5_1)

## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 0
Invalid: 0

## If S9_4=1, 2=Father (s9_5_2)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 2-2

Valid cases: 0
Invalid: 0

## If S9_4=1, 3=Brother or sister (s9_5_3)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 3-3

Valid cases: 0
Invalid: 0

## If S9_4=1, 4=Other (s9_5_4)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 4-4

Valid cases: 0
Invalid: 0

## If S9_4=1, 9=NR (s9_5_9)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 9-9

Valid cases: 0
Invalid: 0

## Did you go to kindergarden? 0=N, 1=Y, 9=NR (s9_6)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## THIS year, you are in 1=Class 1; 2=Class 2; 3=Class 3; 9=NR (s9_7)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-9

Valid cases: 0
Invalid: 0

## LAST year, you were in 0=Not in schl; 1=1st G; 2=2nd G; 3=3rd G; 8=Kinder; 9=NR (s9_8)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## LAST year, absent >1 week 0=N, 1=Y, 9=NR (s9_9)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## Student has school reader 0=N, 1=Y, 9=NR (s9_10)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## Student has books (other than school reader) at home 0=N, 1=Y, 9=NR (s9_11)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## If s9_11=1, 1=Tongan (s9_12_1)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-1

Valid cases: 0
Invalid: 0

## If s9_11=1, 2=English (s9_12_2)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 2-2

Valid cases: 0
Invalid: 0

## If s9_11=1, 2=English (s9_12_3)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0

Valid cases: 0
Invalid: 0

## If s9_11=1, 9=NR (s9_12_9)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 9-9

Valid cases: 0
Invalid: 0

## Student does homework 0=N; 1=Y; 9=NR (s9_13)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## Student receives help for homework 0=N; 1=Y; 9=NR (s9_14)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## If s9_14=1, 1=Mother (s9_15_1)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-1

Valid cases: 0
Invalid: 0

## If s9_14=1, 1=Father (s9_15_2)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 2-2

Valid cases: 0
Invalid: 0

## If s9_14=1, 3=Brother/sister (s9_15_3)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 3-3

Valid cases: 0
Invalid: 0

## If s9_14=1, 4=Other (s9_15_4)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 4-4

Valid cases: 0
Invalid: 0

## If s9_14=1, 9=NR (s9_15_9)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 9-9

Valid cases: 0
Invalid: 0

## Radio 0=N; 1=Y; 9=NR (s9_16)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## Landline 0=N; 1=Y; 9=NR (s9_17)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## Mobile phone 0=N; 1=Y; 9=NR (s9_18)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## Electricity 0=N; 1=Y; 9=NR (s9_19)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## TV 0=N; 1=Y; 9=NR (s9_20)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## TV SKY 0=N; 1=Y; 9=NR (s9_21)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## Refrigerator 0=N; 1=Y; 9=NR (s9_22)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## Toilet inside house 0=N; 1=Y; 9=NR (s9_23)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## Vehicle 0=N; 1=Y; 9=NR (s9_24)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## Boat 0=N; 1=Y; 9=NR (s9_25)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## Walls 1=Brick; 2=timber; 3=Corrugated iron; 4=Hardboard; 5=fale tonga; 9=NR (s9_26)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-9

Valid cases: 0
Invalid: 0

## Cook 1=gas; 2=kerosene; 3=fire/outside house; 9=NR (s9_27)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-9

Valid cases: 0
Invalid: 0

## Access to water 1=house/in premises; 2=neighbour's; 3=other; 9=NR (s9_28)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-9

Valid cases: 0
Invalid: 0

## (yearofb)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 4
Decimals: 0
Range: 1998-2009

Valid cases: 0
Invalid: 0

## (monthofb)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 2
Decimals: 0
Range: 1-12

Valid cases: 0
Invalid: 0

## (dayofb)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 1-31

Valid cases: 0
Invalid: 0

## (v)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-1

Valid cases: 0
Invalid: 0

## Date of Birth (birthday)
## File: tegra

**Overview**

Type: Discrete
Format: character
Width: 10

Valid cases: 0

## Date of Survey (datesurvey)
## File: tegra

**Overview**

Type: Discrete
Format: character
Width: 10

Valid cases: 0

## Exact Age in Years (age)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 17
Decimals: 0
Range: 0.082135520875454-11.1731691360474

Valid cases: 0
Invalid: 0

## Student age in years (rounded, computed) (age1)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 17
Decimals: 0
Range: 0.082135520875454-11

Valid cases: 0
Invalid: 0

## (merge)
## File: tegra

**Overview**

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 2-3

Valid cases: 0
Invalid: 0

## Letters Correct Per Minute (LCPM)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 16
Decimals: 0
Range: 0-130.434783935547

Valid cases: 0
Invalid: 0

## Sounds Correct Per Minute (SCPM)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 0-89

Valid cases: 0
Invalid: 0

## Sight Words Correct Per Minute (SWCPM)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 16
Decimals: 0
Range: 0-103.448272705078

Valid cases: 0
Invalid: 0

## Invented Words Correct Per Minute (NWCPM)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 16
Decimals: 0
Range: 1-66.6666641235352

Valid cases: 0
Invalid: 0

## Connected Words Correct Per Minute (CWCPM)
## File: tegra

**Overview**

Type: Continuous
Format: numeric
Width: 5
Decimals: 0
Range: 0-147.5

Valid cases: 0
Invalid: 0

# Documentation

## Questionnaires

### Tonga EGRA and Student Context Survey

| | |
|---|---|
| Title | Tonga EGRA and Student Context Survey |
| Country | Tonga |
| Language | English |
| Filename | tonga_egra_and_student_context_survey.pdf |

### Tonga Teacher Survey

| | |
|---|---|
| Title | Tonga Teacher Survey |
| Country | Tonga |
| Language | English |
| Filename | tonga_teacher_survey.pdf |

## Reports

### EGRA EGMA - Tools to measure and improve student learning

| | |
|---|---|
| Title | EGRA EGMA - Tools to measure and improve student learning |
| Author(s) | Souhila Messaoud-Galusi, RTI International |
| Date | 2012-12-05 |
| Language | English |
| Filename | EGRA_EGMA - World Bank presentation - Wed 5th Dec 2012_FINAL.pdf |

### TONGA EGRA Report

| | |
|---|---|
| Title | TONGA EGRA Report |
| Country | Tonga |
| Language | English |
| Filename | TONGA EGRA REPORT vf.pdf |

## Technical documents

### Tegra Data Summary

| | |
|---|---|
| Title | Tegra Data Summary |
| Country | Tonga |
| Language | English |
| Filename | tegra_data_summary.pdf |