COUNTED & VISIBLE TOOLKIT

Computation of selected gender-specific and gender-relevant Sustainable Development Goals indicators in selected countries using STATA

UN WOMEN

WOMEN COUNT

THE INTER-SECRETARIAT
WORKING GROUP ON
HOUSEHOLD SURVEYS

About the Report

The Counted and Visible: Toolkit to Better Utilize Existing Data from Household Surveys to Generate Disaggregated Gender Statistics (Counted and Visible Toolkit) provides a compilation of tools and mechanisms used by several countries to produce evidence to inform gender-responsive policies and catalyze actions to leave no one behind. This publication was developed by UN Women, in collaboration with the Inter-Secretariat Working Group on Household Surveys (ISWGHS). From the technical to the strategic, the publication also takes holistic approach to production of disaggregated gender statistics showcasing good country practices – from the commitment of national statistical systems to uptake and use. The digital version of the publication can be found at: https://data.unwomen.org/resources/counted-and-visible-toolkit.

This publication, a complementary technical resource of the Toolkit, is a comprehensive compilation of statistical computing exercises via Stata to produce disaggregated gender statistics covering 13 Sustainable Development Goals indicators using publicly available datasets of select countries.

NOTE TO USER

Software

This technical resource provides a step-by-step guide in producing and assessing disaggregated gender statistics using Stata. The scripts were produced using STATA versions 14. However, the commands used were basic codes and will work in earlier or later versions of the statistical software.

Indicators

Disaggregated gender statistics were produced for 13 Sustainable Development Goals (SDG) indicators – one for each Goal and one for each SDG 5 target – data permitting. In some cases where no gender-specific or gender-relevant indicators are available, a related indicator was computed instead.

Additional codes are provided to disaggregate the indicator by wealth index and/or by type of location (urban/rural).

Dataset

The disaggregated gender statistics were computed using the latest Demographic and Health Survey (DHS) data of selected countries, mainly using the individual data file for women. DHS data are publicly available upon request via https://dhsprogram.com/. Weights in DHS data files need to be divided by 1,000,000 as they were computed to six decimal points but presented in the standard recode files without the decimal point.

In one indicator, the data for Multiple Indicator Survey (MICS) was used. MICS datasets can be downloaded for free via https://mics.unicef.org/surveys after registration.

Country selection

In generating relevant disaggregated gender statistics, mainly the datasets and variables of UN Women's Women Count programme pathfinder countries or other supported countries by the programme have been used.

Standard error (SE) and Coefficient of Variation (CV)

The codes will directly produce SE and CV which are used to assess the quality (particularly precision and reliability) of disaggregated gender statistics produced.

Low value of SE is preferred. For CV, there are no internationally agreed standards or recommendation as thresholds vary country to country and surveys to surveys. The Counted and Visible Toolkit suggests this classification of estimates:

VALUE OF CV	SUGGESTED CLASSIFICATION OF ESTIMATES (x)
x ≤ 10%	Highly reliable
10% > x ≥ 20%	Sufficiently reliable
20% > x ≥ 33%	Still acceptable but should be used with caution.
x > 33%	Caveats should be provided in terms of the level of reliability of the estimate.

LIST OF INDICATORS

Goal 1. End poverty in all its forms everywhere & Goal 10. Reduce inequality within and among countries
(Related Indicator) Proportion of women who belong to the poorest 20% of the population, by age and persons with disability

Goal 2. End hunger, achieve food security and improved nutrition and promote sustainable agriculture
2.2.3 Prevalence of anaemia in women aged 15 to 49 years, by pregnancy status

Goal 3. Ensure healthy lives and promote well-being for all at all ages
3.1.2 Proportion of births attended by skilled health personnel

3.7.1 Proportion of women of reproductive age (aged 15–49 years) who have their need for family planning satisfied with modern methods

Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all
(Related Indicator) Proportion of women with primary or less education

Goal 5. Achieve gender equality and empower all women and girls
5.2.1 Proportion of ever-partnered women and girls aged 15 years and older subjected to physical, sexual or psychological violence by a current or former intimate partner in the previous 12 months, by form of violence and by age

5.3.1 Proportion of women aged 20–24 years who were married or in a union before age 15 and before age 18

5.6.1 Proportion of women aged 15–49 years who make their own informed decisions regarding contraceptive use and reproductive health care[1]

5.b.1 Proportion of women who own a mobile telephone[2]

Goal 7. Ensure access to affordable, reliable, sustainable and modern energy for all
7.1.2 Proportion of women with primary reliance on clean fuels and technology[3]

Goal 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all
8.10.2 Proportion of women (15 years and older) with an account at a bank or other financial institution or with a mobile-money-service provider[4]

Goal 16. Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels
16.2.3 Proportion of young women aged 18–29 years who experienced sexual violence by age 18

Goal 17. Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development
17.8.1 Proportion of women using the Internet in the last 12 months[5]

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[1] Full SDG indicator: Proportion of women aged 15–49 years who make their own informed decisions regarding sexual relations, contraceptive use and reproductive health care.
[2] Full SDG indicator: Proportion of individuals who own a mobile telephone, by sex
[3] Full SDG indicator: Proportion of population with primary reliance on clean fuels and technology
[4] Full SDG indicator: Proportion of adults (15 years and older) with an account at a bank or other financial institution or with a mobile-money-service provider
[5] Full SDG indicator: Proportion of individuals using the Internet in the last three months.

COUNTRIES AND DATA SOURCES

SDG	COUNTRY	DATASET	DATA FILE
1.x	Albania	Demographic and Health Survey 2017-18	ALIR71FL
2.2.3	Nepal	Demographic and Health Survey 2016	NPIR7HFL
3.1.2	Sierra Leone	Demographic and Health Survey 2019	SLBR7AFL
3.7.1	Uganda	Demographic and Health Survey 2016	UGIR7BFL
4.x	Mongolia	Multiple Indicator Cluster Survey 2018	wm
5.2.1	Tajikistan	Demographic and Health Survey 2017	TJIR71FL
5.3.1	Egypt	Demographic and Health Survey 2014	EGIR61FL
5.6.1	Kyrgyz Republic	Demographic and Health Survey 2012	KYIR61FL
5.b.1	Jordan	Demographic and Health Survey 2017-2018	JOIR73FL
7.1.2	Bangladesh	Demographic and Health Survey 2017-2018	BDIR7RFL
8.10.2	Tanzania	Demographic and Health Survey 2015-2016	TZIR7BFL
16.2.3	Senegal	Demographic and Health Survey 2019	SNIR8BFL
17.8.1	Cameroon	Demographic and Health Survey 2018	CMIR71FL

STATA CODES

Goal 1.End poverty in all its forms everywhere & Goal 10. Reduce inequality within and among countries

(Related Indicator) 1.x Proportion of women who belong to the poorest 20% of the population, by age and persons with disability

***Step 1: Import Data

```
global data "D:/OneDrive - UN Women/Toolkit/Data" // data location
use "$data/ALIR71FL.dta", clear // file name
```

***Step 2: Replace weight presentation

```
replace v005 = v005/1000000
```

***Step 3: Compute the estimates for women belonging in the poorest 20%

```
// v190 is the wealth index variable wherein code 1 is the poorest 20%

tabulate v190, m
generate poorest = 1 if v190 == 1
    replace poorest = 0 if v190 != 1

label define p 1 "Poorest" 0 "Not poorest"
label value poorest p

tabulate poorest [iw=v005]
```

***Step 4a: Compute the estimates by age group (v013)

```
tabulate poorest v013 [iw=v005], col

tabulate v013, generate(ag)
foreach v of varlist ag* {
    replace `v' = . if `v' == 0
    }

generate poorest_ag_15to19 = poorest*ag1
generate poorest_ag_20to24 = poorest*ag2
generate poorest_ag_25to29 = poorest*ag3
generate poorest_ag_30to34 = poorest*ag4
generate poorest_ag_35to39 = poorest*ag5
generate poorest_ag_40to44 = poorest*ag6
generate poorest_ag_45to49 = poorest*ag7
generate poorest_ag_50to54 = poorest*ag8
generate poorest_ag_55to59 = poorest*ag9
```

***Step 4b: Compute the estimates by disability (s1105)

```
tabulate poorest s1105 [iw=v005], col
generate disability = 1 if s1105 == 1
```

```
generate poorest_disability = poorest*disability
```

***Step 4c: Compute the estimates by type of location (v025)

```
tabulate poorest v025 [iw=v005], col

generate urban=1 if v025 == 1
generate rural=1 if v025 == 2

generate poorest_urban = poorest*urban
generate poorest_rural = poorest*rural
```

***Step 5: Compute CV and SE

```
svyset v021 [weight= v005], str(v023)
foreach v of varlist poorest* {
    label value `v' p
    svy: proportion `v'
    estat cv
    }

clear
```

Goal 2. End hunger, achieve food security and improved nutrition and promote sustainable agriculture
   2.2.3 Prevalence of anaemia in women aged 15 to 49 years, by pregnancy status (percentage)

***Step 1: Import Data**
```
global data "D:/OneDrive - UN Women/Toolkit/Data" // data location
use "$data/NPIR7HFL.dta", clear // file name
```

***Step 2: Limit dataset to the denominator of the indicator and replace weight**
```
keep if v015==1 // keep only completed interviews

replace v005 = v005/1000000 // replace weight presentation
```

***Step 3: Compute the estimates for women with anemia (v457)**
```
tab v457, m // women with anemia are codes 1 - 3

generate anemia = 0 if v457 == 4
    replace anemia = 1 if inrange(v457,1,3)
    replace anemia = . if 457 == .

label define a 1 "Anemic" 0 "Not Anemic"
label value anemia a

tabulate anemia [iw=v005]
```

***Step 4a: Compute the estimates by pregnancy status (v213)**
```
tabulate anemia v213 [iw=v005], col

generate pregnant = 1 if v213 == 1
generate nonpregnant = 1 if v213 != 1
generate anemia_pregnant = anemia*pregnant
generate anemia_nonpregnant = anemia*nonpregnant

tab anemia_pregnant [iw=v005]
tab anemia_nonpregnant [iw=v005]
```

***Step 4b: Compute the estimates by wealth index (v190)**
```
tabulate anemia v190 [iw=v005], col

generate poorest = 1 if v190 == 1
generate richest = 1 if v190 == 5

generate anemia_poorest = anemia*poorest
generate anemia_richest = anemia*richest
```

***Step 4c: Compute the estimates by type of location (v025)**
```
tabulate anemia v025 [iw=v005], col

generate urban=1 if v025 == 1
generate rural=1 if v025 == 2
```

```
        generate anemia_urban = anemia*urban
        generate anemia_rural = anemia*rural
```

Step 4d: Compute the estimates by wealth index (v190) and type of location (v025)
```
        by v025, sort: tab anemia v190 [iw=v005], column

        generate anemia_poorest_urban = anemia*poorest*urban
        generate anemia_poorest_rural = anemia*poorest*rural
        generate anemia_richest_urban = anemia*richest*urban
        generate anemia_richest_rural = anemia*richest*rural
```

Step 5: Compute CV and SE
```
        svyset v021 [weight= v005], str(v023) singleunit(centered)
        foreach v of varlist anemia* {
            label value `v' a
            svy: proportion `v'
            estat cv
            }

    clear
```

Goal 3. Ensure healthy lives and promote well-being for all at all ages
3.1.2 Proportion of births attended by skilled health personnel

***Step 1: Import Data**
```
global data "D:/OneDrive - UN Women/Toolkit/Data" // data location
use "$data/SLBR7AFL.dta", clear // file name
```

***Step 2: Replace weight presentation**
```
replace v005 = v005/1000000
```

***Step 3: Compute the estimates for birth attended by skilled health personnel**
```
// births attended by skilled health personnel is determined by type of person providing delivery
assistance
// Doctor (m3a = 1); Nurse/midwife (m3b = 1); Auxiliary nurse/midwife (m3c = 1); Other health worker
(m3d = 1 or m3e = 1 or m3f = 1)

generate birth = 1 if m3a == 1 | m3b == 1 | m3c == 1 // there are no observations for m3d, m3e, and
m3f
    replace birth = 0 if birth != 1
    replace birth = . if m3a == . & m3b == . & m3c == .

label define b 1 "Skilled" 0 "Not Skilled"
label value birth b

tabulate birth [iw=v005]
```

***Step 4: Compute the estimates by wealth index (v190) and type of location (v025)**
```
tab birth v025 [iw=v005], column
tab birth v190 [iw=v005], column
by v025, sort: tab birth v190 [iw=v005], column

generate urban=1 if v025 == 1
generate rural=1 if v025 == 2
generate poorest=1 if v190 == 1
generate richest=1 if v190 == 5
generate birth_poorest=birth*poorest
generate birth_richest=birth*richest
generate birth_urban=birth*urban
generate birth_rural=birth*rural
generate birth_poorest_urban=birth*poorest*urban
generate birth_richest_urban=birth*richest*urban
generate birth_poorest_rural=birth*poorest*rural
generate birth_richest_rural=birth*richest*rural
```

***Step 5: Compute CV and SE**
```
svyset v021 [weight= v005], str(v023) singleunit(centered)
foreach v of varlist birth* {
    label value `v' b
    svy: proportion `v'
```

```
        estat cv
        }

clear
```

Goal 3. Ensure healthy lives and promote well-being for all at all ages

3.7.1 Proportion of women of reproductive age (aged 15–49 years) who have their need for family planning satisfied with modern methods

***Step 1: Import Data

```
global data "D:/OneDrive - UN Women/Toolkit/Data" // data location
use "$data/UGIR7BFL.dta", clear // file name
```

***Step 2: Limit dataset to the denominator of the indicator and replace weight

```
keep if v012>=15 & v012<=49 // we are interested in women aged between 15 and 49 years old

replace v005 = v005/1000000 // replace weight presentation
```

***Step 3: Compute the estimates for women with met needs for family planning using modern methods

```
// v313 -current use by method type (0 - no method; 1 - folk; 2 - traditional; 3 - using modern method)

generate modern = 1 if v313 == 3
    replace modern = 0 if v313 == 1 | v313 == 2
    replace modern = . if v313 == 0

label define m 1 "Yes" 0 "No"
label value modern m

tabulate modern [iw=v005]
```

***Step 4: Compute the estimates by wealth index (v190) and type of location (v025)

```
tab modern v025 [iw=v005], column
tab modern v190 [iw=v005], column
by v025, sort: tab modern v190 [iw=v005], column

generate urban=1 if v025 == 1
generate rural=1 if v025 == 2
generate poorest=1 if v190 == 1
generate richest=1 if v190 == 5
generate modern_poorest=modern*poorest
generate modern_richest=modern*richest
generate modern_urban=modern*urban
generate modern_rural=modern*rural
generate modern_poorest_urban=modern*poorest*urban
generate modern_richest_urban=modern*richest*urban
generate modern_poorest_rural=modern*poorest*rural
generate modern_richest_rural=modern*richest*rural
```

***Step 5: Compute CV and SE

```
svyset v021 [weight= v005], str(v023)
foreach v of varlist modern* {
    label value `v' m
    svy: proportion `v'
```

```
            estat cv
            }

clear
```

Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all
  (Related Indicator) 4.x Proportion of women with primary or less education

***Step 1: Import Data**
global data "D:/OneDrive - UN Women/Toolkit/Data" // data location
use "$data/wm.dta", clear // file name

***Step 2: Keep only completed interviews**
keep if WM17==1

***Step 3: Compute the estimates of women with primary or less education**
// WB5 – ever attended school (1) Yes (2) No; WB6A – highest level attended and WB6B – highest grade attended
```
    generate educ = 0
        replace educ = 1 if (WB5 == 0) | (WB6A == 1 & WB6B <= 6)

    label define e 1 "Yes" 0 "No"
    label val educ e

    tabulate educ [iw=wmweight]
```

***Step 4: Compute the estimates by wealth index (v190) and type of location (v025)**
```
    tab educ HH6 [iw=wmweight], column
    tab educ windex5 [iw=wmweight], column
    by HH6, sort: tab educ windex5 [iw=wmweight], column

    generate urban=1 if HH6 == 1
    generate rural=1 if HH6 == 2
    generate poorest=1 if windex5 == 1
    generate richest=1 if windex5 == 5
    generate educ_poorest=educ*poorest
    generate educ_richest=educ*richest
    generate educ_urban=educ*urban
    generate educ_rural=educ*rural
    generate educ_poorest_urban=educ*poorest*urban
    generate educ_richest_urban=educ*richest*urban
    generate educ_poorest_rural=educ*poorest*rural
    generate educ_richest_rural=educ*richest*rural
```

***Step 5: Compute CV and SE**
```
    svyset WM1 [weight=wmweight], str(HH7) singleunit(centered)
    foreach v of varlist educ* {
        label value `v' e
        svy: proportion `v'
        estat cv
        }

clear
```

Goal 5. Achieve gender equality and empower all women and girls

5.2.1 Proportion of ever-partnered women and girls aged 15 years and older subjected to physical, sexual or psychological violence by a current or former intimate partner in the previous 12 months, by form of violence and by age

***Step 1: Import Data
global data "D:/OneDrive - UN Women/Toolkit/Data" // data location
use "$data/TJIR71FL.dta", clear // file name

***Step 2: Limit dataset to the denominator of the indicator and replace weight
keep if v012>=15 // we are interested in women aged 15 and over
keep if v015==1 // keep only completed interviews
// NOTE: all women in the dataset are ever-married

replace d005 = d005/1000000 // replace weight presentation: DHS uses a different variable for domestic violence

***Step 3: Compute the estimates of ever-partnered women and girls subjected to violence of any form by a current or former intimate partner
// recode variables d111 (physical), d104 (emotional), and d108 (sexual)
generate vaw = 0
    replace vaw = 1 if (d111 == 1 | d104 == 1 | d108 == 1)
    replace vaw = . if (d111 == . & d104 == . & d108 == .)

label define I 1 "Yes" 0 "No"
label val vaw I

tabulate vaw [iw=d005]

** Compute CV and SE
svyset v021 [weight= d005], str(v023)
svy: proportion vaw
estat cv

***Step 4: Compute the estimates by type of violence
generate vaw_type_phy = d111
generate vaw_type_sex = d108
generate vaw_type_emo = d104

tabulate1 vaw_type* [iw=d005]

** Compute CV and SE
svyset v021 [weight= d005], str(v023)
svy: proportion vaw_type*
estat cv

***Step 5: Compute the estimates by age group (v013)
tabulate vaw v013 [iw=d005], column

tabulate v013, generate(ag)

```
replace ag1 = . if ag1 == 0
replace ag2 = . if ag2 == 0
replace ag3 = . if ag3 == 0
replace ag4 = . if ag4 == 0
replace ag5 = . if ag5 == 0
replace ag6 = . if ag6 == 0
replace ag7 = . if ag7 == 0

generate vaw_ag_15to19 = vaw*ag1
generate vaw_ag_20to24 = vaw*ag2
generate vaw_ag_25to29 = vaw*ag3
generate vaw_ag_30to34 = vaw*ag4
generate vaw_ag_35to39 = vaw*ag5
generate vaw_ag_40to44 = vaw*ag6
generate vaw_ag_45to49 = vaw*ag7

** Compute CV and SE
svyset v021 [weight= d005], str(v023)
foreach v of varlist vaw_ag* {
    svy: proportion `v'
    estat cv
    }
```

***Step 6: Compute the estimates by wealth index (v190) and type of location (v025)

```
tab vaw v025 [iw=d005], column
tab vaw v190 [iw=d005], column
by v025, sort: tab vaw v190 [iw=d005], column

generate urban=1 if v025 == 1
generate rural=1 if v025 == 2
generate poorest=1 if v190 == 1
generate richest=1 if v190 == 5
generate vaw_wl_poorest=vaw*poorest
generate vaw_wl_richest=vaw*richest
generate vaw_wl_urban=vaw*urban
generate vaw_wl_rural=vaw*rural
generate vaw_wl_poorest_urban=vaw*poorest*urban
generate vaw_wl_richest_urban=vaw*richest*urban
generate vaw_wl_poorest_rural=vaw*poorest*rural
generate vaw_wl_richest_rural=vaw*richest*rural

** Compute CV and SE
svyset v021 [weight= d005], str(v023)
foreach v of varlist vaw_wl* {
    svy: proportion `v'
    estat cv
    }
```

Goal 5. Achieve gender equality and empower all women and girls

5.3.1 Proportion of women aged 20–24 years who were married or in a union before age 15 and before age 18

***Step 1: Import Data**

```
global data "D:/OneDrive - UN Women/Toolkit/Data" // data location
use "$data/EGIR61FL.dta", clear // file name
```

***Step 2: Limit dataset to the denominator of the indicator and replace weight**

```
keep if v012>=20 & v012<=24
// we are interested in women aged between 20 and 24
// note that the dataset comprises of women ever married/ in union

replace v005 = v005/1000000 // replace weight presentation
```

***Step 3: Compute the estimates for women who were married or in a union before age 15 and before age 18**

```
// v511 = age at first cohabitation

generate ufifteen = 1 if v511 < 15
    replace ufifteen = 0 if ufifteen != 1
generate ueighteen = 1 if v511 < 18
    replace ueighteen = 0 if ueighteen != 1

label define b 1 "Yes" 0 "No"
label value ufifteen b
label value ueighteen b

tabulate ufifteen [iw=v005]
tabulate ueighteen [iw=v005]
```

***Step 4a: Compute the estimates by wealth index (v190) and type of location (v025) for marriage before age 15**

```
tab ufifteen v025 [iw=v005], column
tab ufifteen v190 [iw=v005], column
by v025, sort: tab ufifteen v190 [iw=v005], column

generate urban=1 if v025 == 1
generate rural=1 if v025 == 2
generate poorest=1 if v190 == 1
generate richest=1 if v190 == 5
generate ufifteen_poorest=ufifteen*poorest
generate ufifteen_richest=ufifteen*richest
generate ufifteen_urban=ufifteen*urban
generate ufifteen_rural=ufifteen*rural
generate ufifteen_poorest_urban=ufifteen*poorest*urban
generate ufifteen_richest_urban=ufifteen*richest*urban
generate ufifteen_poorest_rural=ufifteen*poorest*rural
generate ufifteen_richest_rural=ufifteen*richest*rural
```

***Step 4b: Compute the estimates by wealth index (v190) and type of location (v025) for marriage before age 18

```
tab ueighteen v025 [iw=v005], column
tab ueighteen v190 [iw=v005], column
by v025, sort: tab ueighteen v190 [iw=v005], column

generate ueighteen_poorest=ueighteen*poorest
generate ueighteen_richest=ueighteen*richest
generate ueighteen_urban=ueighteen*urban
generate ueighteen_rural=ueighteen*rural
generate ueighteen_poorest_urban=ueighteen*poorest*urban
generate ueighteen_richest_urban=ueighteen*richest*urban
generate ueighteen_poorest_rural=ueighteen*poorest*rural
generate ueighteen_richest_rural=ueighteen*richest*rural
```

***Step 5: Compute CV and SE

```
svyset v021 [weight= v005], str(v023) singleunit(centered)
foreach v of varlist ufifteen* {
    label value `v' b
    svy: proportion `v'
    estat cv
    }

svyset v021 [weight= v005], str(v023) singleunit(centered)
foreach v of varlist ueighteen* {
    label value `v' b
    svy: proportion `v'
    estat cv
     }

clear
```

Goal 5. Achieve gender equality and empower all women and girls

> 5.6.1 Proportion of women aged 15–49 years who make their own informed decisions regarding contraceptive use and reproductive health care[6]

***Step 1: Import Data**

```
global data "D:/OneDrive - UN Women/Toolkit/Data" // data location
use "$data/KYIR61FL.dta", clear // file name
```

***Step 2: Limit dataset to the denominator of the indicator and replace weight**

```
keep if v012>=15 & v012<=49 // we are interested in women aged between 15 and 49

replace v005 = v005/1000000 // replace weight presentation
```

***Step 3a: Compute the estimates for women who make their own informed decisions regarding contraceptive use**

```
// v632 - decision maker for using contraception; 1 is respondent alone

generate cudecision = .
    replace cudecision = 1 if v632 == 1
    replace cudecision = 0 if v632 == 2 | v632 == 3 | v632 == 6

label define cu 1 "Yes" 0 "No"
label value cudecision cu

tabulate cudecision [iw=v005]
```

***Step 3b: Compute the estimates for women who make their own informed decisions regarding reproductive health care**

```
// v743a - person who usually decides on respondent's health care; 1 is respondent alone

generate rhdecision = .
    replace rhdecision = 1 if v743a == 1
    replace rhdecision = 0 if inrange(v743a,2,5)

label define rh 1 "Respondent Alone" 0 "Other"
label value rhdecision rh

tabulate rhdecision [iw=v005]
```

***Step 4a: Compute the estimates for contraceptive use decision by wealth index (v190) and type of location (v025)**

```
tab cudecision v025 [iw=v005], column
tab cudecision v190 [iw=v005], column
by v025, sort: tab cudecision v190 [iw=v005], column
```

---

[6] Full SDG indicator: Proportion of women aged 15–49 years who make their own informed decisions regarding sexual relations, contraceptive use and reproductive health care. Computation should be made as a combination of all three components. However, since this country dataset only had two out of three components, the variables were computed separately.

```
generate urban=1 if v025 == 1
generate rural=1 if v025 == 2
generate poorest=1 if v190 == 1
generate richest=1 if v190 == 5
generate cudecision_poorest=cudecision*poorest
generate cudecision_richest=cudecision*richest
generate cudecision_urban=cudecision*urban
generate cudecision_rural=cudecision*rural
generate cudecision_poorest_urban=cudecision*poorest*urban
generate cudecision_richest_urban=cudecision*richest*urban
generate cudecision_poorest_rural=cudecision*poorest*rural
generate cudecision_richest_rural=cudecision*richest*rural
```

***Step 4b: Compute the estimates for reproductive health decision by wealth index (v190) and type of location (v025)

```
tab rhdecision v025 [iw=v005], column
tab rhdecision v190 [iw=v005], column
by v025, sort: tab rhdecision v190 [iw=v005], column

generate rhdecision_poorest=rhdecision*poorest
generate rhdecision_richest=rhdecision*richest
generate rhdecision_urban=rhdecision*urban
generate rhdecision_rural=rhdecision*rural
generate rhdecision_poorest_urban=rhdecision*poorest*urban
generate rhdecision_richest_urban=rhdecision*richest*urban
generate rhdecision_poorest_rural=rhdecision*poorest*rural
generate rhdecision_richest_rural=rhdecision*richest*rural
```

***Step 5: Compute CV and SE

```
svyset v021 [weight= v005], str(v023) singleunit(centered)
foreach v of varlist cudecision* {
    label value `v' cu
    svy: proportion `v'
    estat cv
    }

svyset v021 [weight= v005], str(v023) singleunit(centered)
foreach v of varlist rhdecision* {
    label value `v' rh
    svy: proportion `v'
    estat cv
    }

clear
```

Goal 5. Achieve gender equality and empower all women and girls

5.b.1 Proportion of women who own a mobile telephone[7]

***Step 1: Import Data
```
global data "D:/OneDrive - UN Women/Toolkit/Data" // data location
use "$data/JOIR73FL.dta", clear // file name
```

***Step 2: Limit dataset to the denominator of the indicator
```
replace v005 = v005/1000000 // replace weight presentation
```

***Step 3: Compute the estimates for women with mobile phone
```
//v169a - owns a mobile telephone
generate mobile = 1 if v169a == 1
    replace mobile = 0 if mobile != 1

label define m 1 "Yes" 0 "No"
label value mobile m

tabulate mobile [iw=v005]
```

***Step 4: Compute the estimates by wealth index (v190) and type of location (v025)
```
tab mobile v025 [iw=v005], column
tab mobile v190 [iw=v005], column
by v025, sort: tab mobile v190 [iw=v005], column

generate urban=1 if v025 == 1
generate rural=1 if v025 == 2
generate poorest=1 if v190 == 1
generate richest=1 if v190 == 5
generate mobile_poorest=mobile*poorest
generate mobile_richest=mobile*richest
generate mobile_urban=mobile*urban
generate mobile_rural=mobile*rural
generate mobile_poorest_urban=mobile*poorest*urban
generate mobile_richest_urban=mobile*richest*urban
generate mobile_poorest_rural=mobile*poorest*rural
generate mobile_richest_rural=mobile*richest*rural
```

***Step 5: Compute CV and SE
```
svyset v021 [weight= v005], str(v023) singleunit(centered)
foreach v of varlist mobile* {
    label value `v' m
    svy: proportion `v'
    estat cv
    }

clear
```

---

[7] Full SDG indicator: Proportion of individuals who own a mobile telephone, by sex

Goal 7. Ensure access to affordable, reliable, sustainable and modern energy for all

7.1.2 Proportion of population with primary reliance on clean fuels and technology

***Step 1: Import Data
```
global data "D:/OneDrive - UN Women/Toolkit/Data" // data location
use "$data/BDIR7RFL.dta", clear // file name
```

***Step 2: Replace weight presentation
```
replace v005 = v005/1000000
```

***Step 3: Compute the estimates for women with primary reliance primary reliance on clean fuels and technology
```
// v161 - type of cooking fuel
// clean fuels include electricity (1), liquefied petroleum gas (2), natural gas (3), and biogas (4).
// codes 5 - 11 and 96 are not clean fuels
// codes 95 and 97 are not applicable

generate cleanf = . if v161 == 95 | v161 == 97
    replace cleanf = 1 if inrange(v161,1,4)
    replace cleanf = 0 if inrange(v161,5,11) | v161 == 96

label define f 1 "Yes" 0 "No"
label value cleanf f

tabulate cleanf [iw=v005]
```

***Step 4: Compute the estimates by wealth index (v190) and type of location (v025)
```
tab cleanf v025 [iw=v005], column
tab cleanf v190 [iw=v005], column
by v025, sort: tab cleanf v190 [iw=v005], column

generate urban=1 if v025 == 1
generate rural=1 if v025 == 2
generate poorest=1 if v190 == 1
generate richest=1 if v190 == 5
generate cleanf_poorest=cleanf*poorest
generate cleanf_richest=cleanf*richest
generate cleanf_urban=cleanf*urban
generate cleanf_rural=cleanf*rural
generate cleanf_poorest_urban=cleanf*poorest*urban
generate cleanf_richest_urban=cleanf*richest*urban
generate cleanf_poorest_rural=cleanf*poorest*rural
generate cleanf_richest_rural=cleanf*richest*rural
```

***Step 5: Compute CV and SE
```
svyset v021 [weight= v005], str(v023) singleunit(centered)
foreach v of varlist cleanf* {
    label value `v' f
    svy: proportion `v'
```

```
        estat cv
        }

clear
```

Goal 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all

8.10.2 Proportion of adults (15 years and older) with an account at a bank or other financial institution or with a mobile-money-service provider

***Step 1: Import Data

```
global data "D:/OneDrive - UN Women/Toolkit/Data" // data location
use "$data/TZIR7BFL.dta", clear // file name
```

***Step 2: Limit dataset to the denominator of the indicator and replace weight

```
keep if v012>=15 // we are interested in women aged above 15
replace v005 = v005/1000000 // replace weight presentation
```

***Step 3: Compute the estimates for women with an account at a bank or other financial institution or with a mobile-money-service provider

```
//v170 - has an acocunt in a bank or other financial institution
generate bank = 1 if v170 == 1
    replace bank = 0 if bank != 1

label define b 1 "Yes" 0 "No"
label value bank b

tabulate bank [iw=v005]
```

***Step 4: Compute the estimates by wealth index (v190) and type of location (v025)

```
tab bank v025 [iw=v005], column
tab bank v190 [iw=v005], column
by v025, sort: tab bank v190 [iw=v005], column

generate urban=1 if v025 == 1
generate rural=1 if v025 == 2
generate poorest=1 if v190 == 1
generate richest=1 if v190 == 5
generate bank_poorest=bank*poorest
generate bank_richest=bank*richest
generate bank_urban=bank*urban
generate bank_rural=bank*rural
generate bank_poorest_urban=bank*poorest*urban
generate bank_richest_urban=bank*richest*urban
generate bank_poorest_rural=bank*poorest*rural
generate bank_richest_rural=bank*richest*rural
```

***Step 5: Compute CV and SE

```
svyset v021 [weight= v005], str(v023) singleunit(centered)
foreach v of varlist bank* {
    label value `v' b
    svy: proportion `v'
    estat cv
    }
```

clear

Goal 16. Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels

16.2.3 Proportion of young women aged 18–29 years who experienced sexual violence by age 18

***Step 1: Import Data

```
global data "D:/OneDrive - UN Women/Toolkit/Data" // data location
use "$data/SNIR8BFL.dta", clear // file name
```

***Step 2: Limit dataset to the denominator of the indicator and replace weight

```
keep if v012>=18 & v012<=29 // we are interested in women aged between 18 and 29

replace d005 = d005/1000000 // replace weight presentation
```

***Step 3: Compute the estimates for women who experienced sexual violence by age 18

```
// d126 - age at first forced sexual act
generate sv18 = 0
        replace sv18 = 1 if d126 <= 18 & d126 != .
        replace sv18 = . if d126 == .

label define s 1 "Yes" 0 "No"
label value sv18 s

tabulate sv18 [iw=d005]
```

***Step 4: Compute the estimates by wealth index (v190) and type of location (v025)

```
tab sv18 v025 [iw=d005], column
tab sv18 v190 [iw=d005], column
by v025, sort: tab sv18 v190 [iw=d005], column

generate urban=1 if v025 == 1
generate rural=1 if v025 == 2
generate poorest=1 if v190 == 1
generate richest=1 if v190 == 5
generate sv18_poorest=sv18*poorest
generate sv18_richest=sv18*richest
generate sv18_urban=sv18*urban
generate sv18_rural=sv18*rural
generate sv18_poorest_urban=sv18*poorest*urban
generate sv18_richest_urban=sv18*richest*urban
generate sv18_poorest_rural=sv18*poorest*rural
generate sv18_richest_rural=sv18*richest*rural
```

***Step 5: Compute CV and SE

```
svyset v021 [weight= d005], str(v023)
foreach v of varlist sv18* {
    label value `v' s
    svy: proportion `v'
    estat cv
```

```
        }

    clear
```

Goal 17. Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development

17.8.1 Proportion of women using the Internet in the last 12 months[8]

***Step 1: Import Data

```
global data "D:/OneDrive - UN Women/Toolkit/Data" // data location
use "$data/CMIR71FL.dta", clear // file name
```

***Step 2: Replace weight presentation

```
replace v005 = v005/1000000
```

***Step 3: Compute the estimates for women who used the Internet in the last 12 months

```
// v171a - use of Internet; (0) never (1) yes, last 12 months (2) yes, before last 12 months

generate internet = 1 if v171a == 1
    replace internet = 0 if internet != 1

label define i 1 "Yes" 0 "No"
label value internet i

tabulate internet [iw=v005]
```

***Step 4: Compute the estimates by wealth index (v190) and type of location (v025)

```
tab internet v025 [iw=v005], column
tab internet v190 [iw=v005], column
by v025, sort: tab internet v190 [iw=v005], column

generate urban=1 if v025 == 1
generate rural=1 if v025 == 2
generate poorest=1 if v190 == 1
generate richest=1 if v190 == 5
generate internet_poorest=internet*poorest
generate internet_richest=internet*richest
generate internet_urban=internet*urban
generate internet_rural=internet*rural
generate internet_poorest_urban=internet*poorest*urban
generate internet_richest_urban=internet*richest*urban
generate internet_poorest_rural=internet*poorest*rural
generate internet_richest_rural=internet*richest*rural
```

---

[8] The full SDG goal is: Proportion of individuals using the Internet in the last three months.

***Step 5: Compute CV and SE

```
svyset v021 [weight= v005], str(v023) singleunit(centered)
foreach v of varlist internet* {
    label value `v' i
    svy: proportion `v'
    estat cv
    }

clear
```