
Subject: SSU variables in the Mauritania DHS2019-2021

Posted by [kinden](#) on Thu, 29 Feb 2024 18:56:26 GMT

[View Forum Message](#) <> [Reply to Message](#)

Dear DHS team,

According to the DHS Household and Sampling Manual, the DHS surveys are two stage surveys. The sampling units for the first stage of selection is called the Primary Sampling Unit (PSU) with probability sampling of EAs; the sampling unit for the second stage of selection is called the Secondary Sampling Unit (SSU) with random sampling of households in the selected EAs.

I try to extract the data to identify the following categories of pregnant women who delivered their last child in the past five years preceding to the Mauritania DHS2019-2021 survey.

- (1) The number of pregnant women who delivered their last child after August 2019 in the regions of Hodh Gharbi and Guidimakha
- (2) The number of pregnant women who delivered their last child before August 2019 in the regions of Hodh Gharbi and Guidimakha
- (3) The number of pregnant women who delivered their last child after August 2019 in other regions than Hodh Gharbi and Guidimakha
- (4) The number of pregnant women who delivered their last child before August 2019 in other regions than Hodh Gharbi and Guidimakha

However, I could only get the data regarding the number of women in the sample in the PSU: 39,793 women in 39,793 households.

What is the secondary sampling unit(ssu) variable in DHS data set?

My objective is not to produce sampling error but rather to identify the sample size of the above-mentioned different categories of pregnant women.

Any suggestions would be appreciated.

Thank you!

Subject: Re: SSU variables in the Mauritania DHS2019-2021

Posted by [Bridgette-DHS](#) on Fri, 01 Mar 2024 12:45:26 GMT

[View Forum Message](#) <> [Reply to Message](#)

Following is a response from Senior DHS Stata Specialist, Tom Pullum:

The variable to identify PSUs is v001 (duplicated as v021) and the variable for households, which are the SSUs, is v002. However, you don't need either of them. The following lines will give a table for the number of births that the sampled women had before August 2019, during August 2019, or after August 2019, for each region (v024), not just the two regions you mentioned.

Note that these are numbers of births to women in the sample. The number of births after August 2019 is affected by when the woman was interviewed. The fieldwork started in November 2019 and was stopped in March 2020 (there were 2 interviews in April 2020), and then resumed for two months in February-March 2021. If you are trying to get at the impact of COVID-19 on fertility, you will have to take the date of interview into account. Only the 5,016 women interviewed in 2021

could possibly show a COVID-19 effect.

* Number of births in the Mauritania 2019-21 survey before/after August 2019, by region

use "C:\Users\26216\ICF\Analysis - Shared Resources\Data\DHSdata\MRBR71FL.DTA", clear

* Find the cmc for August 2019

summarize b3 if b1==8 & b2==2019

* August 2019 is b3=1436

* Construct a variable for the timing of births in the birth histories

gen birthdate=1

replace birthdate=2 if b3==1436

replace birthdate=3 if b3>1436

label define bd 1 "Before August 2019" 2 "In August 2019" 3 "After August 2019"

label values birthdate bd

tab v024 birthdate [iweight=v005/1000000]

Here is the table of weighted frequencies:

| | birthdate | | | |
|-----------------------|------------|------------|------------|------------|
| region | Before Au | In August | After Aug | Total |
| -----+-----+----- | | | | |
| hodh echargui | 5,398.926 | 40.237882 | 165.757235 | 5,604.9211 |
| hodh gharbi | 4,306.5666 | 28.994562 | 137.206754 | 4,472.768 |
| assaba | 3,542.996 | 19.488518 | 85.435286 | 3,647.92 |
| gorgol | 3,866.476 | 21.88072 | 100.96081 | 3,989.317 |
| brakna | 2,995.976 | 21.032225 | 97.846587 | 3,114.855 |
| trarza | 1,992.851 | 16.385234 | 51.722557 | 2,060.959 |
| adrar | 676.115868 | 2.597507 | 16.480042 | 695.193417 |
| dakhlet nouadhibou | 1,097.09 | 4.328784 | 28.115727 | 1,129.534 |
| tagant | 867.836632 | 5.258122 | 23.18794 | 896.282694 |
| guidimagma | 3,860.71 | 23.182374 | 104.898378 | 3,988.791 |
| tiris zemour et inchi | 589.395148 | 6.91581 | 15.450279 | 611.761237 |
| nouakchott ouest | 1,339.084 | 8.220457 | 146.107834 | 1,493.412 |
| nouakchott nord | 4,009.97 | 17.350836 | 347.069054 | 4,374.39 |
| nouakchott sud | 3,567.589 | 18.178068 | 302.901025 | 3,888.668 |
| -----+-----+----- | | | | |
| Total | 38,111.58 | 234.051099 | 1,623.14 | 39,968.77 |

Subject: Re: SSU variables in the Mauritania DHS2019-2021
Posted by [kinder](#) on Thu, 07 Mar 2024 17:20:44 GMT

Thank you so much, Bridgette.
Your response is very helpful.

Yet, the table below shows the number of livebirths.
How can I get the number of the last child born before/after August 2019 among the classified pregnant women by region?

Could you also confirm the collected data (5,016 women interviewed) in 2021 were only from Nouakchott as the DHS report says?

Kind regards,
Kazumi

Subject: Re: SSU variables in the Mauritania DHS2019-2021
Posted by [Bridgette-DHS](#) on Mon, 18 Mar 2024 12:15:03 GMT
[View Forum Message](#) <> [Reply to Message](#)

Following is a response from Senior DHS staff member, Tom Pullum:

We apologize for the delay in this response.

The variable for region, v024, has the following categories:

. label list V024

V024:

- 1 hodh echargui
- 2 hodh gharbi
- 3 assaba
- 4 gorgol
- 5 brakna
- 6 trarza
- 7 adrar
- 8 dakhlet nouadhibou
- 9 tagant
- 10 guidimagha
- 11 tiris zemour et inchiri
- 12 nouakchott ouest
- 13 nouakchott nord
- 14 nouakchott sud

Nouakshott is divided into west, north, and south. The weighted and unweighted numbers of women in the regions is obtained with the IR file:

```
. use "...MRIR71FL.DTA"
```

```
. tab v024
```

| region | Freq. | Percent | Cum. |
|-------------------------|--------|---------|--------|
| -----+----- | | | |
| hodh echargui | 1,327 | 8.44 | 8.44 |
| hodh gharbi | 1,402 | 8.92 | 17.37 |
| assaba | 1,380 | 8.78 | 26.15 |
| gorgol | 1,449 | 9.22 | 35.37 |
| brakna | 1,454 | 9.25 | 44.62 |
| trarza | 1,320 | 8.40 | 53.02 |
| adrar | 808 | 5.14 | 58.16 |
| dakhlet nouadhibou | 643 | 4.09 | 62.26 |
| tagant | 920 | 5.85 | 68.11 |
| guidimagha | 1,786 | 11.37 | 79.48 |
| tiris zemour et inchiri | 787 | 5.01 | 84.49 |
| nouakchott ouest | 728 | 4.63 | 89.12 |
| nouakchott nord | 910 | 5.79 | 94.91 |
| nouakchott sud | 800 | 5.09 | 100.00 |
| -----+----- | | | |
| Total | 15,714 | 100.00 | |

```
. tab v024 [iweight=v005/1000000]
```

| region | Freq. | Percent | Cum. |
|-------------------------|-------------|---------|--------|
| -----+----- | | | |
| hodh echargui | 2,033.68582 | 12.94 | 12.94 |
| hodh gharbi | 1,579.5074 | 10.05 | 22.99 |
| assaba | 1,249.2951 | 7.95 | 30.94 |
| gorgol | 1,292.7495 | 8.23 | 39.17 |
| brakna | 1,281.9262 | 8.16 | 47.33 |
| trarza | 961.483433 | 6.12 | 53.45 |
| adrar | 297.682976 | 1.89 | 55.34 |
| dakhlet nouadhibou | 538.786626 | 3.43 | 58.77 |
| tagant | 349.098656 | 2.22 | 60.99 |
| guidimagha | 1,243.5337 | 7.91 | 68.91 |
| tiris zemour et inchiri | 273.47023 | 1.74 | 70.65 |
| nouakchott ouest | 792.569719 | 5.04 | 75.69 |
| nouakchott nord | 2,073.0319 | 13.19 | 88.88 |
| nouakchott sud | 1,747.1787 | 11.12 | 100.00 |
| -----+----- | | | |
| Total | 15,714 | 100.00 | |

However, in order to get the 5016 that you refer to, I have to go to the BR file, in which the cases

are all the children in the birth histories:

. use "...MRBR71FL.DTA", clear

. tab v024

| region | Freq. | Percent | Cum. |
|-------------------------|--------|---------|--------|
| -----+----- | | | |
| hodh echargui | 3,560 | 8.95 | 8.95 |
| hodh gharbi | 3,865 | 9.71 | 18.66 |
| assaba | 3,902 | 9.81 | 28.46 |
| gorgol | 4,355 | 10.94 | 39.41 |
| brakna | 3,467 | 8.71 | 48.12 |
| trarza | 2,841 | 7.14 | 55.26 |
| adrar | 1,832 | 4.60 | 59.86 |
| dakhlet nouadhibou | 1,388 | 3.49 | 63.35 |
| tagant | 2,300 | 5.78 | 69.13 |
| guidimagha | 5,467 | 13.74 | 82.87 |
| tiris zemour et inchiri | 1,800 | 4.52 | 87.39 |
| nouakchott ouest | 1,279 | 3.21 | 90.61 |
| nouakchott nord | 1,936 | 4.87 | 95.47 |
| nouakchott sud | 1,801 | 4.53 | 100.00 |
| -----+----- | | | |
| Total | 39,793 | 100.00 | |

. tab v024 [iweight=v005/1000000]

| region | Freq. | Percent | Cum. |
|-------------------------|-------------|---------|--------|
| -----+----- | | | |
| hodh echargui | 5,604.9211 | 14.02 | 14.02 |
| hodh gharbi | 4,472.7679 | 11.19 | 25.21 |
| assaba | 3,647.9203 | 9.13 | 34.34 |
| gorgol | 3,989.3172 | 9.98 | 44.32 |
| brakna | 3,114.8548 | 7.79 | 52.12 |
| trarza | 2,060.9592 | 5.16 | 57.27 |
| adrar | 695.193417 | 1.74 | 59.01 |
| dakhlet nouadhibou | 1,129.5344 | 2.83 | 61.84 |
| tagant | 896.282694 | 2.24 | 64.08 |
| guidimagha | 3,988.79101 | 9.98 | 74.06 |
| tiris zemour et inchiri | 611.761237 | 1.53 | 75.59 |
| nouakchott ouest | 1,493.412 | 3.74 | 79.33 |
| nouakchott nord | 4,374.38955 | 10.94 | 90.27 |
| nouakchott sud | 3,888.6678 | 9.73 | 100.00 |
| -----+----- | | | |
| Total | 39,968.772 | 100.00 | |

By adding the numbers in regions 12, 13, and 14, weighted and unweighted, in the IR and BR files, I found that the 5016 is the sum of the weighted frequencies in the BR file. I have highlighted those numbers in yellow. In other words, I can confirm that there are 5016 BIRTHS, NOT WOMEN, and these are WEIGHTED frequencies, NOT UNWEIGHTED.

You also ask for "the number of the last child born before/after August 2019 among the classified pregnant women by region". I have tried to understand your question but can you clarify it? Are you trying to match a table in the final report, or are you doing something new?

As before, I do not know why you are particularly interested in August 2019, and I don't know whether you intend to include that month 2019 in "before" or "after". I don't know why you are limiting yourself to women who are pregnant, which I interpret to mean pregnant at the time of the survey.

If I interpret your question literally, you want to restrict yourself to women who are pregnant at the time of the survey (v213=1), and to the most recent birth (bidx=1) and you want to know how many of those births were before or after August 2019, by region. Here are the Stata lines for doing that. Let us know if you want something else.

```
use "...MRBR71FL.DTA", clear
```

```
* Find the cmc for August 2019
summarize b3 if b1==8 & b2==2019
* August 2019 is b3=1436
```

```
* Construct a variable for the timing of births in the birth histories
gen birthdate=1
replace birthdate=2 if b3==1436
replace birthdate=3 if b3>1436
```

```
label define bd 1 "Before August 2019" 2 "In August 2019" 3 "After August 2019"
label values birthdate bd
```

```
tab v024 birthdate if bidx==1 & v213==1 [iweight=v005/1000000]
```

```
. tab v024 birthdate if bidx==1 & v213==1 [iweight=v005/1000000]
```

| region | birthdate | | | Total |
|---------------|------------|-----------|-----------|------------|
| | Before Au | In August | After Aug | |
| hodh echargui | 149.223643 | 2.148514 | 0 | 151.372157 |
| hodh gharbi | 151.271238 | 0 | 0 | 151.271238 |
| assaba | 76.345168 | 0 | 0 | 76.345168 |
| gorgol | 102.743707 | 0 | 0 | 102.743707 |
| brakna | 42.965639 | 0 | 0 | 42.965639 |
| trarza | 53.324355 | 0 | 0 | 53.324355 |
| adrar | 13.528143 | 0 | 0 | 13.528143 |

| | | | | |
|-----------------------|------------|----------|-----------|------------|
| dakhlet nouadhibou | 26.032095 | 0 | 0 | 26.032095 |
| tagant | 23.939958 | 0 | 0 | 23.939958 |
| guidimagha | 81.070053 | 0 | .723028 | 81.793081 |
| tiris zemour et inchi | 15.290715 | 0 | 0 | 15.290715 |
| nouakchott ouest | 17.218033 | 0 | .792849 | 18.010882 |
| nouakchott nord | 91.418925 | 2.031406 | 6.741004 | 100.191335 |
| nouakchott sud | 83.416651 | 5.80855 | 5.440926 | 94.666127 |
| -----+-----+----- | | | | |
| Total | 927.788323 | 9.98847 | 13.697807 | 951.4746 |

Subject: Re: SSU variables in the Mauritania DHS2019-2021
 Posted by [kinder](#) on Wed, 27 Mar 2024 21:45:54 GMT
[View Forum Message](#) <> [Reply to Message](#)

Thank you so much once again, Bridgette.

It is very useful to confirm that 5016 is the sum of the weighted frequencies in the BR file.

And yes, I would like to restrict the data to women who are pregnant at the time of the survey (v213=1), and to the most recent birth (bidx=1) and I want to know how many of those births were before or after August 2019, by region, assuming that most pregnant women delivered one baby at their last birth.

The reasons why I am interested in before/after August 2019 are that the intervention of my interest has started since December 2018 (9 months before August 2019) and that I would like to analyze key issues around ANC service delivery.

What I still do not understand from your two useful responses is why the number of livebirths after August 2019 is different between the data from the first response (1,623.14 - weighted) and those from the second response (13.697 - unweighted)?

These numbers are supposed to be similar as no women will be able to deliver another baby from August 2019 onwards during the survey period, non?

* Number of births in the Mauritania 2019-21 survey before/after August 2019, by region

use "C:\Users\26216\ICF\Analysis - Shared Resources\Data\DHSdata\MRBR71FL.DTA", clear

* Find the cmc for August 2019
 summarize b3 if b1==8 & b2==2019

* August 2019 is b3=1436

* Construct a variable for the timing of births in the birth histories

gen birthdate=1

replace birthdate=2 if b3==1436

replace birthdate=3 if b3>1436

```
label define bd 1 "Before August 2019" 2 "In August 2019" 3 "After August 2019"
label values birthdate bd
tab v024 birthdate [iweight=v005/1000000]
```

Here is the table of weighted frequencies:

| | birthdate | | | Total |
|-----------------------|------------------|-------------------|-----------------|------------------|
| region | Before Au | In August | After Aug | |
| hodh echargui | 5,398.926 | 40.237882 | 165.757235 | 5,604.9211 |
| hodh gharbi | 4,306.5666 | 28.994562 | 137.206754 | 4,472.768 |
| assaba | 3,542.996 | 19.488518 | 85.435286 | 3,647.92 |
| gorgol | 3,866.476 | 21.88072 | 100.96081 | 3,989.317 |
| brakna | 2,995.976 | 21.032225 | 97.846587 | 3,114.855 |
| trarza | 1,992.851 | 16.385234 | 51.722557 | 2,060.959 |
| adrar | 676.115868 | 2.597507 | 16.480042 | 695.193417 |
| dakhlet nouadhibou | 1,097.09 | 4.328784 | 28.115727 | 1,129.534 |
| tagant | 867.836632 | 5.258122 | 23.18794 | 896.282694 |
| guidimagma | 3,860.71 | 23.182374 | 104.898378 | 3,988.791 |
| tiris zemour et inchi | 589.395148 | 6.91581 | 15.450279 | 611.761237 |
| nouakchott ouest | 1,339.084 | 8.220457 | 146.107834 | 1,493.412 |
| nouakchott nord | 4,009.97 | 17.350836 | 347.069054 | 4,374.39 |
| nouakchott sud | 3,567.589 | 18.178068 | 302.901025 | 3,888.668 |
| Total | 38,111.58 | 234.051099 | 1,623.14 | 39,968.77 |

```
use "...MRBR71FL.DTA", clear
```

```
* Find the cmc for August 2019
summarize b3 if b1==8 & b2==2019
* August 2019 is b3=1436
```

```
* Construct a variable for the timing of births in the birth histories
gen birthdate=1
replace birthdate=2 if b3==1436
replace birthdate=3 if b3>1436
```

```
label define bd 1 "Before August 2019" 2 "In August 2019" 3 "After August 2019"
label values birthdate bd
```

```
tab v024 birthdate if bidx==1 & v213==1 [iweight=v005/1000000]
```

```
. tab v024 birthdate if bidx==1 & v213==1 [iweight=v005/1000000]
```

| | birthdate |
|--|-----------|
|--|-----------|

| region | Before Au | In August | After Aug | Total |
|-----------------------|-------------------|----------------|------------------|-----------------|
| hodh echargui | 149.223643 | 2.148514 | 0 | 151.372157 |
| hodh gharbi | 151.271238 | 0 | 0 | 151.271238 |
| assaba | 76.345168 | 0 | 0 | 76.345168 |
| gorgol | 102.743707 | 0 | 0 | 102.743707 |
| brakna | 42.965639 | 0 | 0 | 42.965639 |
| trarza | 53.324355 | 0 | 0 | 53.324355 |
| adrar | 13.528143 | 0 | 0 | 13.528143 |
| dakhlet nouadhibou | 26.032095 | 0 | 0 | 26.032095 |
| tagant | 23.939958 | 0 | 0 | 23.939958 |
| guidimagha | 81.070053 | 0 | .723028 | 81.793081 |
| tiris zemour et inchi | 15.290715 | 0 | 0 | 15.290715 |
| nouakchott ouest | 17.218033 | 0 | .792849 | 18.010882 |
| nouakchott nord | 91.418925 | 2.031406 | 6.741004 | 100.191335 |
| nouakchott sud | 83.416651 | 5.80855 | 5.440926 | 94.666127 |
| Total | 927.788323 | 9.98847 | 13.697807 | 951.4746 |

Kind regards,
Kazumi

Subject: Re: SSU variables in the Mauritania DHS2019-2021
 Posted by [Bridgette-DHS](#) on Thu, 28 Mar 2024 17:07:34 GMT
[View Forum Message](#) <> [Reply to Message](#)

Following is a response from Senior DHS staff member, Tom Pullum:

The table with 1, 623.14 births after August 2019 was constructed with this command: "tab v024 birthdate [iweight=v005/1000000]". The table with just 13.697 births after August 2019 was constructed with "tab v024 birthdate if bidx==1 & v213==1 [iweight=v005/1000000]". Both frequencies were weighted, but the second and much smaller frequency was limited to the most recent birth (bidx=1) and to women who are pregnant at the time of the survey (v213=1). They are a very small subset of the births in the first table. These tables were what I understood you to be requesting.

You say that you are trying to measure the potential impact of an intervention related to ANC care. I don't see how either of these tables could be used to describe such an impact. This is an interesting question, but this survey may not be appropriate for answering it. I would like to help but the question is outside the scope of the user forum. I hope other users can help.

Here is a journal article that may help, but it uses two successive surveys:

Mallick, Lindsay, Trinadh Dontamsetti, Thomas Pullum, and Julia Fleuret. 2019. Using the Uganda Demographic and Health Surveys from 2011 and 2016 to assess changes in Saving Mothers, Giving Life intervention districts. J. of Global Health Research 3. doi:10.29392/joghr.3.e2019026.

Subject: Re: SSU variables in the Mauritania DHS2019-2021

Posted by [kinden](#) on Fri, 29 Mar 2024 17:08:18 GMT

[View Forum Message](#) <> [Reply to Message](#)

Thank you so much for your prompt reply.

I do understand that this is not the forum to conduct an additional analysis to measure the potential impact of an intervention related to ANC care.

What I am trying to do here is to verify the feasibility of my planned analysis on ANC service delivery.

If there are zero livebirth after August 2019 in most regions except Nouakchott, my analysis will not be feasible.

Thus, I have asked to clarify the differences of the previous two responses.

Kind regards,

Kazumi

Subject: Re: SSU variables in the Mauritania DHS2019-2021

Posted by [Bridgette-DHS](#) on Mon, 01 Apr 2024 12:20:45 GMT

[View Forum Message](#) <> [Reply to Message](#)

Following is a response from Senior DHS staff member, Tom Pullum:

My previous response said what was the difference between the two tables. I'm still not quite sure what your hypothesis is, about the difference between Nouakchott and the rest of Mauritania, but the comparisons that I believe you are trying to make would have to take account of the date of interview, which affects the length of time after August 2019 that the woman could have had a birth.

As you would know, the data collection for Mauritania was spread over 3 calendar years, 2019-2021. Most of the fieldwork was between late November 2019 and March of 2020. Because of Covid, fieldwork was suspended, and was not resumed and completed until February-March 2021. As it happens, the three areas that make up Nouakchott were the only areas that were surveyed in 2021.

Here is a table that gives the century month code (cmc, hv008) and the number of interviews in each month of data collection. This table has households as units and is unweighted. Ignore the

"totals" row and column:

. tab hv006 hv007, summarize(hv008) means freq

Means and Frequencies of date of interview (cmc)

| month of | year of interview | | | Total |
|-----------|-------------------|-----------|-----------|-----------|
| interview | 2019 | 2020 | 2021 | |
| 1 | . | 1441 | . | 1441 |
| | 0 | 2540 | 0 | 2540 |
| 2 | . | 1442 | 1454 | 1443.591 |
| | 0 | 2545 | 389 | 2934 |
| 3 | . | 1443 | 1455 | 1447.8632 |
| | 0 | 2009 | 1369 | 3378 |
| 11 | 1439 | . | . | 1439 |
| | 115 | 0 | 0 | 115 |
| 12 | 1440 | . | . | 1440 |
| | 2691 | 0 | 0 | 2691 |
| Total | 1439.959 | 1441.9251 | 1454.7787 | 1443.3902 |
| | 2806 | 7094 | 1758 | 11658 |

The cmc's for February-March 2021 are 1454 and 1455. In those months, 389 and 1369 households, respectively, were interviewed.

Next, still with households as units, I get the number of interviews by region and cmc as follows:

tab hv024 hv008

| | date of interview (cmc) | | | | | | | Total |
|-----------------------|-------------------------|------|------|------|------|------|------|-------|
| region | 1439 | 1440 | 1441 | 1442 | 1443 | 1454 | 1455 | |
| hodh echargui | 14 | 498 | 281 | 218 | 136 | 0 | 0 | 1,147 |
| hodh gharbi | 6 | 133 | 266 | 402 | 219 | 0 | 0 | 1,026 |
| assaba | 9 | 325 | 279 | 283 | 198 | 0 | 0 | 1,094 |
| gorgol | 14 | 263 | 263 | 267 | 129 | 0 | 0 | 936 |
| brakna | 6 | 246 | 298 | 263 | 239 | 0 | 0 | 1,052 |
| trarza | 15 | 254 | 275 | 292 | 190 | 0 | 0 | 1,026 |
| adrar | 7 | 230 | 157 | 134 | 140 | 0 | 0 | 668 |
| dakhlet nouadhibou | 8 | 141 | 147 | 141 | 231 | 0 | 0 | 668 |
| tagant | 14 | 226 | 241 | 197 | 51 | 0 | 0 | 729 |
| guidimagha | 16 | 279 | 169 | 118 | 245 | 0 | 0 | 827 |
| tiris zemour et inchi | 6 | 96 | 164 | 230 | 231 | 0 | 0 | 727 |

| | | | | | | | | |
|-------------------|-----|-------|-------|-------|-------|-----|-------|--------|
| nouakchott ouest | 0 | 0 | 0 | 0 | 0 | 103 | 479 | 582 |
| nouakchott nord | 0 | 0 | 0 | 0 | 0 | 174 | 417 | 591 |
| nouakchott sud | 0 | 0 | 0 | 0 | 0 | 112 | 473 | 585 |
| -----+-----+----- | | | | | | | | |
| Total | 115 | 2,691 | 2,540 | 2,545 | 2,009 | 389 | 1,369 | 11,658 |

This table shows that, as I said, Nouakchott was not visited until 2021. For that reason alone, you would expect more births there in the interval since August 2019 than in the parts of Mauritania that were visited in late 2019 and early 2020.

To me, it is notable that the date collection is neatly divided, geographically, into pre-covid and post-covid, giving a kind of natural experimental design for potential effects of covid. But I don't see this as a good design for assessing the impact of an intervention in August 2019 in Nouakchott. Any potential effect of that intervention will be completely confounded with the potential effect of covid during the interruption to fieldwork.

If you have other questions, perhaps other users can help.

