

UNESCO API for Minimum Set of Gender Indicators

Lingyan Hu

Thu 8/8/2019 5:30 PM

To: Luis Gerardo Gonzalez Morales <gonzalezmorales@un.org>
 Cc: Haoyi Chen <chen9@un.org>; Yukun Pei <yukun.pei@un.org>
 Hi Luis,

Here is the information on UNESCO API. Again, you can find more details in the email correspondence below.

Best,
 Lingyan

| Indicator | Both sexes | Female | Male |
|---|-----------------|--------------------|-------------------|
| 20. Youth literacy rate of persons (15–24 years), by sex | LR_Ag15t24 | LR_Ag15t24_F | LR_Ag15t24_M |
| 21. Adjusted net enrolment rate in primary education by sex | NERA_1_cp | NERA_1_F_cp | NERA_1_M_cp |
| 22. Gross enrolment ratio in secondary education, by sex | GER_2t3 | GER_2t3_F | GER_2t3_M |
| 23. Gross enrolment ratio in tertiary education, by sex | GER_5t8 | GER_5t8_F | GER_5t8_M |
| 24a. Gender parity index of the gross enrolment ratio in primary education | | | |
| 24b. Gender parity index of the gross enrolment ratio in secondary education | | | |
| 24c. Gender parity index of the gross enrolment ratio in tertiary education | | | |
| 25. Share of female science, technology, engineering and mathematics graduates at tertiary level (old science, engineering, manufacturing and construction) | | FGP_5T8_F500600700 | |
| 26. Proportion of females among tertiary education teachers or professors | | | |
| 27. Adjusted net intake rate to the first grade of primary education, by sex | NIRA_1_cp | NIRA_1_F_cp | NIRA_1_M_cp |
| 28. Primary education completion rate (proxy), by sex | AIR_1_Glast | AIR_1_Glast_F | AIR_1_Glast_M |
| 29. Gross graduation ratio from lower secondary education, by sex | GGR_2 | GGR_2_F | GGR_2_M |
| 30. Effective transition rate from primary to lower secondary education (general programmes), by sex | TRANRA_2_GPV_CP | TRANRA_2_GPV_F_CP | TRANRA_2_GPV_M_CP |
| 31a. Cumulative Educational attainment (minimum primary) of the population aged 25 and older, by sex | EA_1t8_AG25t99 | EA_1t8_AG25t99_F | EA_1t8_AG25t99_M |
| 31b. Cumulative Educational attainment (minimum lower secondary) of the population aged 25 and older, by sex | EA_2t8_AG25t99 | EA_2t8_AG25t99_F | EA_2t8_AG25t99_M |
| 31c. Cumulative Educational attainment (minimum upper secondary) of the population aged 25 and older, by sex | EA_3t8_AG25t99 | EA_3t8_AG25t99_F | EA_3t8_AG25t99_M |
| 31d. Cumulative Educational attainment (minimum post-secondary) of the population aged 25 and older, by sex | EA_4t8_AG25t99 | EA_4t8_AG25t99_F | EA_4t8_AG25t99_M |
| 31e. Cumulative Educational attainment (minimum tertiary) of the population aged 25 and older, by sex | EA_5t8_AG25t99 | EA_5t8_AG25t99_F | EA_5t8_AG25t99_M |

From: Singh, Anuja <a.singh@unesco.org>
 Sent: Monday, 19 June, 2017 3:15 PM
 To: Samrat Shakti Maskey <samrat.maskey@un.org>
 Subject: RE: UNSD Data request for the Minimum Set of Gender indicators - UIS

Hi Samrat,
 Thanks – not my doing but... Regarding the observation status codes, with SDMX we no longer distinguish between national and international estimates. Therefore there may be a difference between what you see in the API and the Data Centre. Sorry I missed that before!
 Hope that is clear,
 Anuja

From: Samrat Shakti Maskey [mailto:samrat.maskey@un.org]
 Sent: June 19, 2017 2:56 PM
 To: Singh, Anuja
 Subject: RE: UNSD Data request for the Minimum Set of Gender indicators - UIS

Hi Anuja

You have a good API documentation and I was using SDMX 2.1 to retrieve data from API, my query was for http://data.uis.unesco.org/RestSDMX/sdmx.ashx/GetData/EDULIT_DS/LR_AG15T24_F.AFG/all?startTime=1990 if it was possible to specify the response format here?

Response from this query has extra info like # which differentiate national estimate or UIS estimate. whereby the API equivalent just has attribute estimated value for both.

2015

value=" # ">

From: "Singh, Anuja" <a.singh@unesco.org>
 To: Samrat Shakti Maskey <samrat.maskey@un.org>
 Cc: "Kennedy, Alison" <a.kennedy@unesco.org>, "Buffett, Brian" <b.buffett@unesco.org>, Haoyi Chen <chen9@un.org>, Andrew Smith <smith61@un.org>
 Date: 19/06/2017 02:03 PM
 Subject: RE: UNSD Data request for the Minimum Set of Gender indicators - UIS

Dear Samrat,
 The API contains all footnotes and metadata available for the dataset - have you found cases where they are missing? Otherwise if you are comfortable in reducing the size of the query as you have described, please go ahead and use the API. It is possible to specify response in SDMX 2.1. Please see the instructions below.
 Have a good afternoon,

Anuja

Specifying Response Format

The API supports many response formats in order to specify response format, the **Accept** HTTP Header can be used to specify format. The following Accept headers are supported:

SDMX Formats

application/vnd.sdmx.structure;version=edi

application/vnd.sdmx.structure+xml;version=1.0

application/vnd.sdmx.structure+xml;version=2.0

application/vnd.sdmx.structure+xml;version=2.1

JSON Format

application/vnd.sdmx.json

RDF Formats

application/vnd.rdf+xml

application/vnd.rdf+json

application/vnd.rdf+turtle

Excel Format

application/vnd.xlsx

Alternatively the **format** query parameter can be used to specify response format. The following values are supported:

sdmx (latest version)

sdmx-1.0

sdmx-2.0

sdmx-2.1

sdmx-edi

sdmx-edi-lenient

sdmx-json

rdf-turtle

rdf-json

rdf-xml

xlsx

Example:

```
format=sdmx-edi
```

From: Samrat Shakti Maskey [<mailto:samrat.maskey@un.org>]

Sent: June 19, 2017 10:52 AM

To: Singh, Anuja <a.singh@unesco.org>

Cc: Kennedy, Alison <a.kennedy@unesco.org>; Buffett, Brian <b.buffett@unesco.org>; Haoyi Chen <chen9@un.org>; Andrew Smith <smith61@un.org>

Subject: RE: UNSD Data request for the Minimum Set of Gender indicators - UIS

Dear Anuja
Good Morning!

Thanks for your advice, ill convert my solution to use UIS data portal.

Quick question, i saw that the data portal is returning SDMX 2.0 data, is it possible to specify to return the response in SDMX 2.1?
test sdmx data url: http://data.uis.unesco.org/RestSDMX/sdmx.ashx/GetData/EDULIT_DS/LR_AG15T24_F.AFG/all

Suggestion for API: I solved the issue of data size by limiting the timePeriod to generate response data less than 2000. Just that it needs to include all the relevant information (like national/international estimate).
the response time is faster than that of data portal and we would love to use it when it is ready.

Thanks and Regards
Samrat

From: "Singh, Anuja" <a.singh@unesco.org>

To: Samrat Shakti Maskey <samrat.maskey@un.org>

Cc: Andrew Smith <smith61@un.org>, Haoyi Chen <chen9@un.org>, "Kennedy, Alison" <a.kennedy@unesco.org>, "Buffett, Brian" <b.buffett@unesco.org>

Date: 16/06/2017 06:05 PM

Subject: RE: UNSD Data request for the Minimum Set of Gender indicators - UIS

Dear Samrat,

Good to meet you. We thank you for your interest in using the API. Unfortunately we cannot increase the response data size at this time due to technical constraints. We hope to put in place a better solution very soon but in the meanwhile we advise you to use our data centre: <http://data.uis.unesco.org/> where you will find all of the data and metadata required, including flags regarding estimation.

We are sorry for any inconvenience this may cause you.

Best regards,

Anuja

From: Samrat Shakti Maskey [<mailto:samrat.maskey@un.org>]
 Sent: June 15, 2017 12:46 PM
 To: Singh, Anuja <a.singh@unesco.org>
 Cc: Andrew Smith <smith61@un.org>; Haoyi Chen <chen9@un.org>; Kennedy, Alison <a.kennedy@unesco.org>
 Subject: Re: UNSD Data request for the Minimum Set of Gender indicators - UIS

Hi Anuja,

I am Samrat and we are automating and preparing the dataset for some Minimum set gender indicators through uis api portal.

In doing so, we would appreciate your help and suggestion in starting and verifying that we are in right track.

First, the response data size for uis api portal is set to a max of 2000, is it possible to increase the max allowed size to 20,000?

Second, in the uis api portal, where can i get the information mentioning if it is national or international estimate? I could only find Estimated/Actual value, where as in the uis data portal it separates this.

+ National
 + Estimation
 + UIS
 + Estimation

Finally, I am using the portals query builder to generate the query for each indicator. Could you please verify some of the generated query and if it corresponds to the data portal equivalent with the code you provided.

Looking forward for your kind help and suggestion.

Thanks and Regards
 Samrat

| Indicator | Both sexes | Female |
|---|---|---|
| 20. Youth literacy rate of persons (15-24 years), by sex | LR_Ag15t24 https://api.uis.unesco.org/sdmx/data/UNESCO.EDU_NON_FINANCE.1.0/LR.PT...T.Y15T24.....?format=sdmx-compact-2.1&includehistory=true&startPeriod=1990&subscription-key=XXX | LR_Ag15t24_F https://api.uis.unesco.org/sdmx/data/UNESCO.EDU_NON_FINANCE.1.0/LR.PT...T.Y15T24.....?format=sdmx-compact-2.1&includehistory=true&startPeriod=1990&subscription-key=XXX |
| 21. Adjusted net enrolment rate in primary education by sex | NERA_1_cp https://api.uis.unesco.org/sdmx/data/UNESCO.EDU_NON_FINANCE.1.0/NERA.PT.L1..T.....?format=sdmx-compact-2.1&includehistory=true&startPeriod=1990&subscription-key=XXX | NERA_1_F_cp https://api.uis.unesco.org/sdmx/data/UNESCO.EDU_NON_FINANCE.1.0/NERA.PT.L1..T.....?format=sdmx-compact-2.1&includehistory=true&startPeriod=1990&subscription-key=XXX |
| 22. Gross enrolment ratio in secondary education, by sex | GER_2t3 https://api.uis.unesco.org/sdmx/data/UNESCO.EDU_NON_FINANCE.1.0/GER.PT.L2.3..T..T.....?format=sdmx-compact-2.1&includehistory=true&startPeriod=1990&subscription-key=XXX | GER_2t3_F https://api.uis.unesco.org/sdmx/data/UNESCO.EDU_NON_FINANCE.1.0/GER.PT.L2.3..T..T.....?format=sdmx-compact-2.1&includehistory=true&startPeriod=1990&subscription-key=XXX |

From: Andrew Smith/NY/UNO
 To: Samrat Shakti Maskey/NY/UNO@UNHQ
 Cc: Haoyi Chen/NY/UNO@UNHQ
 Date: 09/05/2017 12:36 PM
 Subject: Fw: UNSD Data request for the Minimum Set of Gender indicators - UIS

Hi Samrat – as mentioned in my previous email, here is the details on the API from UIS, which covers about a third of the indicators in the minimum set.

Happy to discuss further once you have settled in

best,
 andrew

Andrew Smith | Associate Statistician, Social and Housing Statistics Section
 Demographic and Social Statistics Branch, Statistics Division | Department of Economic and Social Affairs
 United Nations | Room DC2-1544 | Email: smith61@un.org | Tel: +1 (212) 963 6017 | [www.un.org/desa]www.un.org/desa



----- Forwarded by Andrew Smith/NY/UNO on 09/05/2017 12:33 PM -----

From: Andrew Smith/NY/UNO
 To: "Singh, Anuja" <a.singh@unesco.org>@UN-MAILHUB
 Cc: "Kennedy, Alison" <a.kennedy@unesco.org>
 Date: 03/05/2017 01:09 PM
 Subject: RE: UNSD Data request for the Minimum Set of Gender indicators - UIS

Dear Anuja,

Thank you for your response to our data request for the Minimum Set of Gender Indicators. We will source the data directly from the UIS website instead of the UNDATA site and use the updated metadata provided.

Thank you also for the table of references for each indicator. We will be processing and updating the the Minimum Set over the next month and will be in contact if there are any questions regrading the individual series.

Kind regards,

Andrew Smith | Associate Statistician, Social and Housing Statistics Section
 Demographic and Social Statistics Branch, Statistics Division | Department of Economic and Social Affairs
 United Nations | Room DC2-1544 | Email: smith61@un.org | Tel: +1 (212) 963 6017 | [www.un.org/desa]www.un.org/desa



From: "Singh, Anuja" <a.singh@unesco.org>
 To: Andrew Smith/NY/UNO@UNHQ
 Cc: "Kennedy, Alison" <a.kennedy@unesco.org>, Francesca Grum/NY/UNO@UNHQ, Haoyi Chen/NY/UNO@UNHQ, Harumi Shibata Salazar/NY/UNO@UNHQ
 Date: 28/04/2017 07:10 PM
 Subject: RE: UNSD Data request for the Minimum Set of Gender indicators - UIS

Dear Mr Smith,

Please note that I am now responsible for this request and that Pascale has moved to another team. Please find attached the updated Metadata document and the data for the 2 requested indicators. We have updated the metadata document due to a change in the [ISCED fields of education and training](#) therefore indicator "25. Share of female science, engineering, manufacturing and construction graduates at tertiary level" has been replaced by "25. Share of female science, technology, engineering and mathematics graduates at tertiary level". We have also update the labels of 31a - 31e.

Please note the UIS has not updated UNDATA due to a change in our policy and we would prefer that you download the data directly from our website at <http://data.uis.unesco.org/> which contains the most recent indicators (updated in December 2016). We are in the process of making all of our data available freely on our website through our database and API. This database will be updated again at the end of May with even more recent indicators. More information about the API system is on the following page: <https://apiportal.uis.unesco.org/> which contains the relevant information on how to access the data.

For ease of reference we have included the table below which maps our indicator codes with your labels:

| Indicator | Both sexes | Female | Male |
|---|-----------------|--------------------|-------------------|
| 20. Youth literacy rate of persons (15-24 years), by sex | LR_Ag15t24 | LR_Ag15t24_F | LR_Ag15t24_M |
| 21. Adjusted net enrolment rate in primary education by sex | NERA_1_cp | NERA_1_F_cp | NERA_1_M_cp |
| 22. Gross enrolment ratio in secondary education, by sex | GER_2t3 | GER_2t3_F | GER_2t3_M |
| 23. Gross enrolment ratio in tertiary education, by sex | GER_5t8 | GER_5t8_F | GER_5t8_M |
| 24a. Gender parity index of the gross enrolment ratio in primary education | | | |
| 24b. Gender parity index of the gross enrolment ratio in secondary education | | | |
| 24c. Gender parity index of the gross enrolment ratio in tertiary education | | | |
| 25. Share of female science, technology, engineering and mathematics graduates at tertiary level (old science, engineering, manufacturing and construction) | | FGP_5T8_F500600700 | |
| 26. Proportion of females among tertiary education teachers or professors | | | |
| 27. Adjusted net intake rate to the first grade of primary education, by sex | NIRA_1_cp | NIRA_1_F_cp | NIRA_1_M_cp |
| 28. Primary education completion rate (proxy), by sex | AIR_1_Glast | AIR_1_Glast_F | AIR_1_Glast_M |
| 29. Gross graduation ratio from lower secondary education, by sex | GGR_2 | GGR_2_F | GGR_2_M |
| 30. Effective transition rate from primary to lower secondary education (general programmes), by sex | TRANRA_2_GPV_CP | TRANRA_2_GPV_F_CP | TRANRA_2_GPV_M_CP |
| 31a. Cumulative Educational attainment (minimum primary) of the population aged 25 and older, by sex | EA_1t8_AG25t99 | EA_1t8_AG25t99_F | EA_1t8_AG25t99_M |
| 31b. Cumulative Educational attainment (minimum lower secondary) of the population aged 25 and older, by sex | EA_2t8_AG25t99 | EA_2t8_AG25t99_F | EA_2t8_AG25t99_M |
| 31c. Cumulative Educational attainment (minimum upper secondary) of the population aged 25 and older, by sex | EA_3t8_AG25t99 | EA_3t8_AG25t99_F | EA_3t8_AG25t99_M |
| 31d. Cumulative Educational attainment (minimum post-secondary) of the population aged 25 and older, by sex | EA_4t8_AG25t99 | EA_4t8_AG25t99_F | EA_4t8_AG25t99_M |
| 31e. Cumulative Educational attainment (minimum tertiary) of the population aged 25 and older, by sex | EA_5t8_AG25t99 | EA_5t8_AG25t99_F | EA_5t8_AG25t99_M |

Please do not hesitate to contact us should you have any difficulty in accessing the data.

Best regards,
Anuja



Anuja Singh

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From: Andrew Smith [<mailto:smith61@un.org>]
Sent: March 23, 2017 3:15 PM
To: Ratovondrahona, Pascale <p.ratovondrahona@unesco.org>; Kennedy, Alison <a.kennedy@unesco.org>
Cc: Francesca Grum <grum@un.org>; Haoyi Chen <chen9@un.org>; Harumi Shibata Salazar <shibata@un.org>
Subject: UNSD Data request for the Minimum Set of Gender indicators - UIS

Dear Alison and Pascale,

Thank you for your previous efforts in providing data for the Minimum Set of Gender Indicators which is available on our online platform (<https://genderstats.un.org/#/home>). UNSD is currently updating the Minimum Set of Gender Indicators and this message is to follow-up with previous communications on the exchange of data and metadata.

Attached is a template for you to provide updated data and metadata (if necessary) on the Gender Indicators that your agency is responsible for.

As in previous updates, we can obtain most of the data from UNDATA. Would you like us to get the data from UNDATA for this update? I noticed that many of these series were updated on UNDATA during October 2016, when is the next update to UNDATA scheduled to take place? If the update is coming soon we would prefer to have the most recent data.

There are only two indicators where we require data and these are included in the template. The metadata for all UIS indicators is included if you need to make any changes.

We would appreciate if you could provide updated data and metadata by **28 April 2017**.

In relation to this data collection, we would like to bring to your attention the following points:

- The data we are collecting are from 1990 to the most recent available year.
- The Metadata worksheet is pre-filled with information you provided previously, please revise as necessary.

As agreed during the 10th IAE-GS meeting in Helsinki last year, the Advisory Group on Gender Indicators will start its work later this year on reviewing the Minimum Set of Gender Indicators and identifying potential modifications to align it with the SDG indicators related to gender. In the meanwhile, we are still collecting data to maintain the current Minimum Set of Gender Indicators.

Please do not hesitate to contact us if you have any questions about this collection.

Best Regards,

Andrew Smith | Associate Statistician, Social and Housing Statistics Section
Demographic and Social Statistics Branch, Statistics Division | Department of Economic and Social Affairs
United Nations | Room DC2-1544 | Email: smith61@un.org | Tel: +1 (212) 963 6017 | [www.un.org/desa]www.un.org/desa



[attachment "UIS_DataRequest_2017_ESM.XLSX" deleted by Andrew Smith/NY/UNO] [attachment "UNSD Request.xml.xlsx" deleted by Andrew Smith/NY/UNO]