

CENSA User Guide

How to select and arrange Census data



PUBLISHED Saturday Jun 28, 2025 at 10:32 PM EDT

1 Introduction

1.1 Purpose

This guide provides instructions for using the **CEN**sus **S**elect and **A**rrange (CENSA) web application. CENSA allows epidemiologists, analysts, and other IDOH users to select standardized population data from the US Census Bureau and modify the format to best suit their analysis or reporting needs. Once the user finalizes their selections and formatting, they can download an Excel file that can be shared with other collaborators.

1.2 Usage overview

To access the app, load <https://on.in.gov/censa> in your web browser while connected to the State of Indiana's public network.

The CENSA workflow consists of the following steps:

1. [Filter](#) the data by vintage type, geography level, and population year to get a smaller set of data
2. [Select demographics](#), including age group, sex, ethnicity, and race
3. [Arrange](#) the output
4. [Download](#) an Excel file
5. [Repeat \(if necessary\)](#), for other geographies or combinations of demographics

Each step is explained in the sections below, with annotated screen shots from the app. Key features in the screen shot are marked by numbers; refer to the corresponding number in the text description or below the image for an explanation of the feature.

💡 Click images to expand

Click the images in this document to see an enlarged version. *This works on the HTML version but not the PDF.*

1.3 Getting help

There are several resources available if you need help:

- Visit the [Census information page](#) on NerveCenter.
- Refer to the [Census Frequently Asked Questions \(FAQ\)](#) document for additional information about the Census data.
- Contact ODA's Data Engineering team (#idohodadataengineers@health.in.gov) for CENSA technical issues that you cannot resolve after referring to the [Troubleshooting](#) section of this document.
- Contact Jamie Black (jamblack@health.in.gov) for questions about the Census data or how to use it appropriately for analysis that are not addressed in the [Census FAQ](#) document.
- Provide [feedback](#) by filling out a survey for ODA.

2 Filter

The full Census data is quite large, so as a first step it is important to apply some filters to reduce the data. Refer to [Figure 1](#).

The screenshot displays the CENSA App interface. On the left, a sidebar contains two main sections: '1 Filter' and '2 Select demographics'. The '1 Filter' section includes a 'Vintage' dropdown menu with 'Best' selected (marked with a green '1'), a 'Geography level' dropdown menu with 'state' selected (marked with a green '2'), a 'Population year' section with '2022' and '2023' selected (marked with a green '3'), and an 'Apply filters' button (marked with a green '4'). The '2 Select demographics' section includes dropdown menus for 'Age group', 'Sex', and 'Ethnicity', all of which currently show 'No options to select.' The main content area on the right features the CENSA App logo and title, followed by a navigation bar with links for 'Population', 'Source', 'Vintage', 'Query', and 'Documentation'. Below this is a section titled 'Population data' which contains a table with the following columns: 'geography_level', 'geography_id', 'geography_name', 'age_group', 'sex', 'ethnicity', 'race', 'population_year', and 'population'. The table body is currently empty.

Figure 1: Filter selections

The first selection has been made for you—the 'Best' vintage (1) will always be displayed as this is the best option for most users.

Using other vintages

Refer to the [Census FAQ](#) document for more information on available vintages. To use a vintage other than the one recommended by ODA, you'll need to use SQL. You can switch to the Query tab in CENSA, write your own SQL, and comment out the line that sets `vintage_best = 1`. An alternative is to [get access to the ACE Synapse database](#) and query the data there.

💡 Tool tips

Hover over the  icons for more guidance and information pertaining to that specific section. [Figure 2](#) below shows an example of an expanded tooltip.

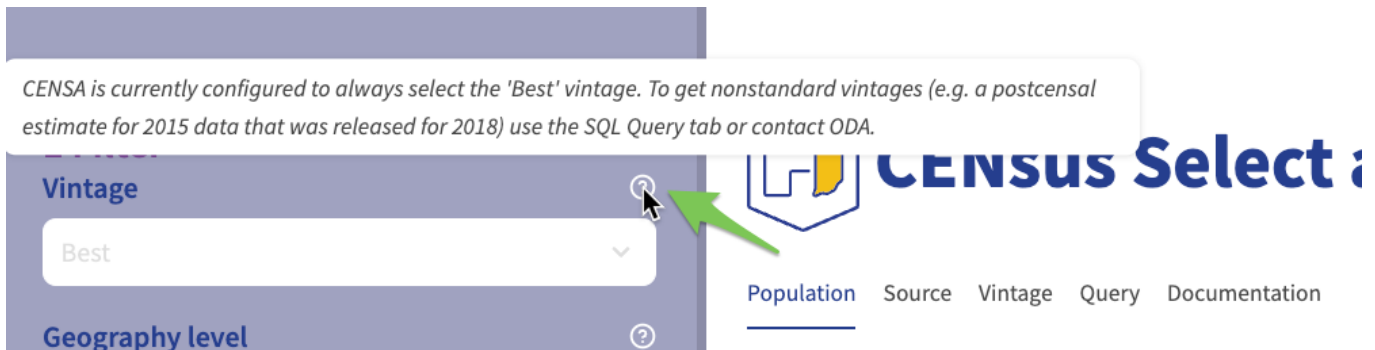


Figure 2: Hover over the icon to see a tooltip

Next, select a geography level **(2)**. There are nine geographies to choose from:

1. nation
2. region
3. division
4. state
5. district_care_coordination
6. district_public_health
7. district_sti
8. district_zero_is_possible
9. county

More info about districts

Refer to the the [Census FAQ](#) document for more information about the IDOH districts listed above.

Finally, select one or more population years to include **(3)**, and then click the 'Apply filters' button **(4)**. CENSA will load the filtered data and display the results in the table in the main section of the page as shown in [Figure 3](#) below.

💡 Select fewer years for better performance

CENSA allows you to select multiple population years, but for best performance (particularly for more granular geography levels like counties) select fewer population years **(3)** at a time to reduce the amount of data.

Remember to click the 'Apply filters' button **(4)**

Let's say you have selected and applied the filters described in this section ([Section 2](#)), and then you have made some demographic selections in the next section ([Section 3](#)). You realize you want to add another population year, or maybe you want to change the geography level. Once you have made those changes to the filters in this

section, you must **click the 'Apply filters' button (4) again**. This may update or reset the values available in the demographic selections, because they depend on the selected filters.

3 Select demographics

You may continue to refine the data needed for your use case by selecting the combinations of demographic values from the filters in the left panel. Available demographic values can change based on the geography level selected. The national and state geography levels have the most age groups to choose from, while the district and county will have a more limited selection of standard age groups (or age groups that can be aggregated from the standard age groups). More information about the availability by geography level and demographics can be found in the [Census FAQ](#) document.

Refer to [Figure 3](#) below. You may choose demographic selections in any order. For example, you can go in order from top to bottom, selecting values from the age group dropdown (1) followed by the sex (2), ethnicity (3), and race (4) dropdowns. Or you can start with race, then select age groups, etc.

The screenshot shows the CENsus Select and Arrange (CENSA) App interface. On the left, there's a filter panel with sections for '2 Select demographics', 'Age group', 'Sex', 'Ethnicity', and 'Race'. Each section has a dropdown menu with a numbered icon (1, 2, 3, 4) indicating the selection order. The 'Race' section includes a tooltip that says 'Race "alone" options are listed first, followed by "alone or in combination"'. Below the filters, there's a table titled 'Population data' with columns for geography_level, geography_id, geography_name, age_group, race, population_year, female|hispanic, female|not_hispanic, female, male|hispanic, and male|not_hispanic. The table displays data for various states and years, with some rows truncated by vertical ellipses.

geography_level	geography_id	geography_name	age_group	race	population_year	female hispanic	female not_hispanic	female	male hispanic	male not_hispanic
state	18	Indiana	0	Americ	2022	72	34	106	56	
state	18	Indiana	0	Americ	2023	64	33	97	79	
state	18	Indiana	0	Asian a	2022	13	1118	1131	36	
state	18	Indiana	0	Asian a	2023	15	1069	1084	28	
state	18	Indiana	0	Black o	2022	318	5076	5394	355	
state	18	Indiana	0	Black o	2023	359	4988	5347	417	
state	18	Indiana	0	Native	2022	14	19	33	11	
state	18	Indiana	0	Native	2023	45	13	58	63	
state	18	Indiana	0	Two or	2022	257	1944	2201	264	
state	18	Indiana	0	Two or	2023	293	1961	2254	283	
state	18	Indiana	0	White a	2022	4396	25686	30082	4550	
state	18	Indiana	0	White a	2023	4254	25376	29630	4577	
state	18	Indiana	0	All Race	2022	5070	33877	38947	5272	

Figure 3: Select demographic values

Note

The values available in one demographic filter may depend on the values previously selected in other demographic filters.

3.1 Race category best practices

The US Census Bureau uses two methods to categorize individuals by race. For more information regarding these categories, hover over the tooltip beside the Race selection in the app (as shown below in

[Figure 4](#)) or refer to the [Census FAQ](#).

The US Census Bureau uses two methods to categorize individuals by race:

1. *Five categories (ending in "alone or in combination"): Multiracial individuals are counted once per race, leading to a sum larger than the total population.*
2. *Six categories (ending in "alone"): Multiracial individuals are counted only once in the additional "Two or More Races" category.*

For most purposes, use the six-category "alone" option to ensure the subtotal by race matches the overall population total.

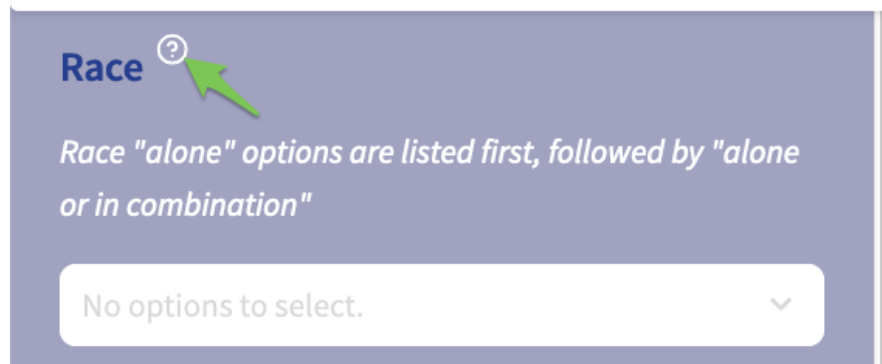


Figure 4: Race tooltip

3.2 Combining ethnicity and race

Some users may wish to combine ethnicity and race, with categories for Non-Hispanic American Indian or Alaska Native, Non-Hispanic Asian, etc., and Hispanic (regardless of race). If this isn't relevant, skip to [Section 4](#).

Warning

Ethnicity and race are separate concepts, and it is recommended to keep them separate.

To achieve this combination, begin by making the making the following selections in CENSA (as shown in [Figure 5](#)):

1. Select 'Hispanic' and 'Not Hispanic' from the Ethnicity dropdown
2. Select 'All Races', the five 'alone' race values (refer to [Section 3.1](#)), and 'Two or More Races' from the Race dropdown (this is the default set of race selections when you first load CENSA)
3. Make sure 'ethnicity' and 'race' have the box next to them checked in the [Arrange](#) section, to include those values as rows

2 Select demographics

Age group

Available values depend on geography level and demographic selections

All Ages

Sex

All Sexes

Ethnicity

Hispanic Not Hispanic 1

Race

Race "alone" options are listed first, followed by "alone or in combination"

All Races American Indian ... Asian alone Black or African ... Native Hawaiian ... Two or More Races White alone 2

3 Arrange

For each variable below, select to include its values as rows (checked) or columns (unchecked). Row variables make the output longer, while column variables make it wider. Hover on the help icon above for an example.

Variable Add values as rows

ethnicity ☒

race ☒ 3

population_year ☐



CENsus Select and Arrange (CENSA) App

Population Source Vintage Query Documentation

Population data

geography_level	geography_id	geography_name	ethnicity	race	year_2022	year_2023
state	18	Indiana	Hispanic	American Indian or Alaska Native alone	14585	16233
state	18	Indiana	Hispanic	Asian alone	4119	4399
state	18	Indiana	Hispanic	Black or African American alone	28811	31912
state	18	Indiana	Hispanic	Native Hawaiian or Other Pacific Islander alone	2213	2638
state	18	Indiana	Hispanic	Two or More Races	19151	20704
state	18	Indiana	Hispanic	White alone	472870	526202
state	18	Indiana	Hispanic	All Races	541749	602088
state	18	Indiana	Not Hispanic	American Indian or Alaska Native alone	15747	15817
state	18	Indiana	Not Hispanic	Asian alone	188702	192833
state	18	Indiana	Not Hispanic	Black or African American alone	675424	683244
state	18	Indiana	Not Hispanic	Native Hawaiian or Other Pacific Islander alone	2949	3043
state	18	Indiana	Not Hispanic	Two or More Races	144392	147908
state	18	Indiana	Not Hispanic	White alone	5264074	5217266

Figure 5: Demographic selections for combining ethnicity and race

After making those selections, [download](#) the Excel file, open it, and go to the [population](#) sheet. In Excel, make the selections as shown in [Figure 6](#):

1. Use the mouse and the **shift** key to select the rows where **ethnicity** is 'Hispanic', except where **race** is 'All Races'
2. Also select the row(s) where **ethnicity** is 'Not Hispanic' and **race** is 'All Races' (using the **ctrl** key on Windows or **command** on macOS)
3. Right-click the selection, and click 'Hide'

	A	B	C	D	E	F	G	H
1	row_number	geography_level	geography_id	geography_name	ethnicity	race	year_2022	year_2023
2	1	state	18	Indiana	Hispanic	American Indian or Alaska Native alone	14,585	16,233
3	2	state	18	Indiana	Hispanic	Asian alone	4,119	4,399
4	3	state	18	Indiana	Hispanic	Black or African American alone	28,811	31,912
5	4	state	18	Indiana	Hispanic	Native Hawaiian or Other Pacific Islander alone	2,213	2,638
6	5	state	18	Indiana	Hispanic	Two or More Races	19,151	20,704
7	6	state	18	Indiana	Hispanic	White alone	472,870	526,202
8	7	state	18	Indiana	Hispanic	All Races	541,749	602,088
9	8	state	18	Indiana	Not Hispanic	American Indian or Alaska Native alone	15,747	15,817
10	9	state	18	Indiana	Not Hispanic	Asian alone	188,702	192,833
11	10	state	18	Indiana	Not Hispanic	Black or African American alone	675,424	683,244
12	11	state	18	Indiana	Not Hispanic	Native Hawaiian or Other Pacific Islander alone	2,949	3,043
13	12	state	18	Indiana	Not Hispanic	Two or More Races	144,392	147,908
14	13	state	18	Indiana	Not Hispanic	White alone	5,264,074	5,217,266
15	14	state	18	Indiana	Not Hispanic	All Races	6,291,288	6,260,111

Figure 6: Hide some combinations of ethnicity and race in Excel

The result should look like [Figure 7](#).

	A	B	C	D	E	F	G	H
1	row_number	geography_level	geography_id	geography_name	ethnicity	race	year_2022	year_2023
8	7 state	18	Indiana	Hispanic	All Races		541,749	602,088
9	8 state	18	Indiana	Not Hispanic	American Indian or Alaska Native alone		15,747	15,817
10	9 state	18	Indiana	Not Hispanic	Asian alone		188,702	192,833
11	10 state	18	Indiana	Not Hispanic	Black or African American alone		675,424	683,244
12	11 state	18	Indiana	Not Hispanic	Native Hawaiian or Other Pacific Islander alone		2,949	3,043
13	12 state	18	Indiana	Not Hispanic	Two or More Races		144,392	147,908
14	13 state	18	Indiana	Not Hispanic	White alone		5,264,074	5,217,266

Figure 7: Ethnicity and race combined in Excel

4 Arrange

4.1 Ordering rows and columns

Check or uncheck the boxes next to the variables in the Arrange section ([Figure 8](#)) to dynamically format the population data to suit your specific needs.

?

3 Arrange

For each variable below, select to include its values as rows (checked) or columns (unchecked). Row variables make the output longer, while column variables make it wider. Hover on the help icon above for an example.

Variable

≡ Add values as rows

age_group

☒

gender

☐

ethnicity

☐

race

☒

Figure 8: Table that identifies how to arrange variables and their values

Every variable that needs to be arranged based on the previous [filters](#) and [demographic selections](#) is automatically included in this table. If the box next to a variable is checked, the variable's name will appear as a column in the output table and its unique values that have been selected will appear as separate rows; this is referred to as a **row variable**. Uncheck the box, and the variable becomes a **column variable**, where each unique value will appear as a separate column.

Example

If the box next to `ethnicity` is checked, the output table to the right will have an `ethnicity` column with a row for 'Hispanic' and another for 'Not Hispanic'. If it is unchecked there will be only one row for that data, with a column called `hispanic` and another called `not_hispanic`.

By checking or unchecking the variables, users can create different layouts:

- A "long" format with fewer columns and many rows ([Section 4.1.1](#))
- A "wide" format with many columns and fewer rows ([Section 4.1.2](#))
- A hybrid between long and wide ([Section 4.1.3](#) and [Section 4.1.4](#))

The images below show examples of the various arrangements. **Row variables** are represented by a **teal** arrow and **column variables** by an **indigo** arrow.

4.1.1 Long format (all variables are row variables)

Check the boxes next to all the arrangeable variables to achieve an output table with a long format, as shown in [Figure 9](#).

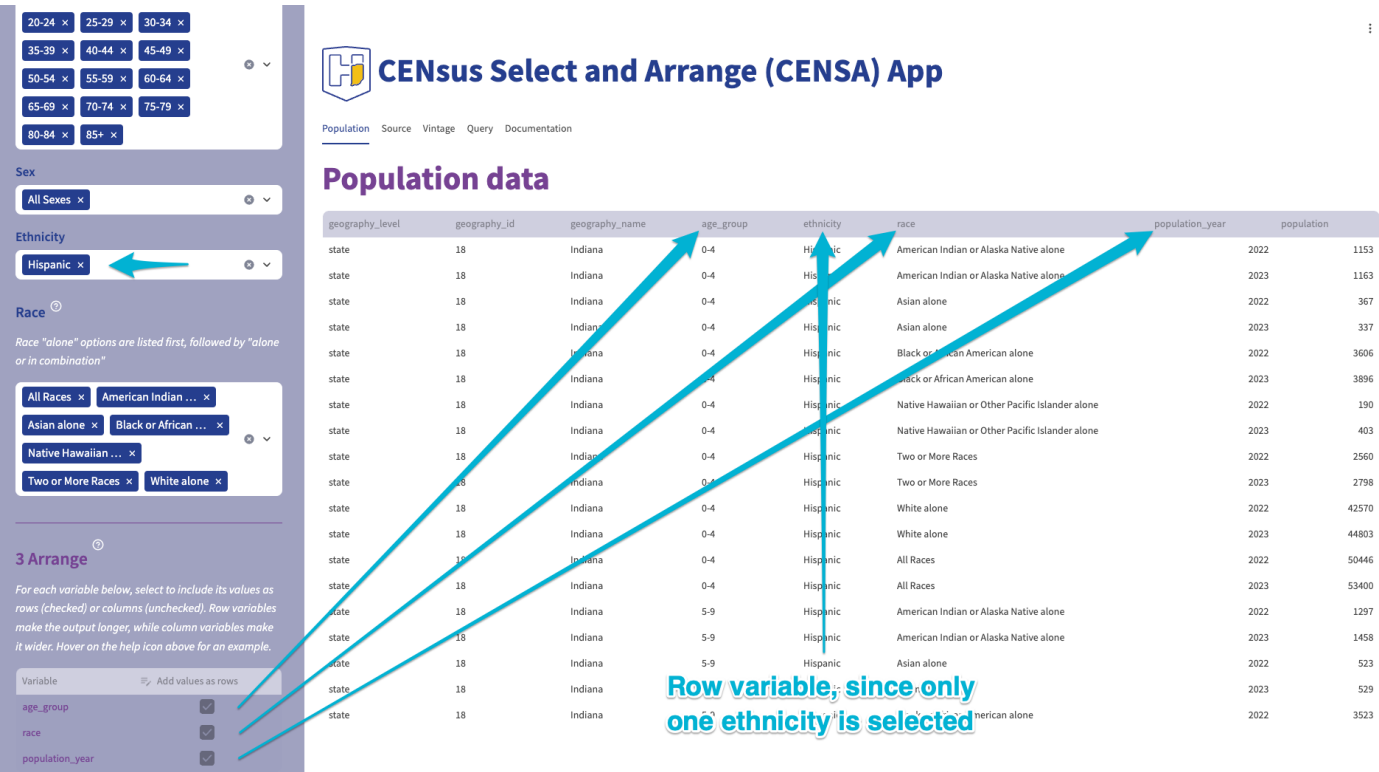


Figure 9: Long Format

Note

If *only a single value* is selected for a demographic or other filter, that variable will be *automatically treated as a row variable* and will not appear in the table to dynamically arrange.

For example, in [Figure 9](#) the user has selected to only show the population for Hispanics. As a result, the `ethnicity` variable does not appear in the Arrange table but is instead shown as a **row variable**—the population table has a column name of `ethnicity` with row values of 'Hispanic'.

4.1.2 Wide format (all variables are column variables)

Uncheck all the arrangeable variables to achieve an output table with a wide format, as shown in [Figure 10](#). When there are multiple **column variables**, their values get combined, converted to lower case, and separated by a pipe. For example, the column named `age_0-4|american_indian_or_alaska_native_alone|year_2022` represents the population for those age 0-4 of race 'American Indian or Alaska Native Alone' for the year 2022.

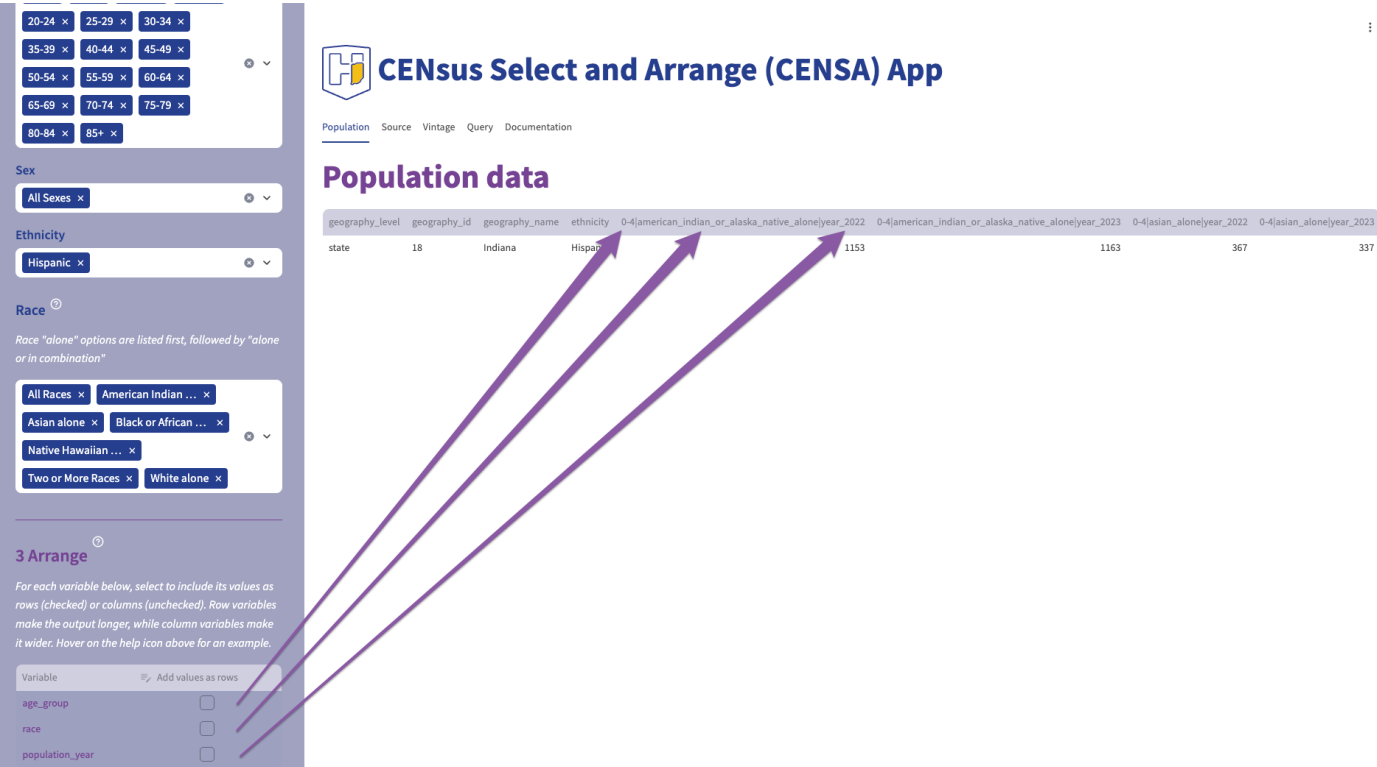


Figure 10: Wide format

4.1.3 Hybrid format (some are row variables, one is a column variable)

Figure 11 shows a hybrid example, with multiple **row variables** (`race` and `population_year`) and one **column variable** (`age_group`).

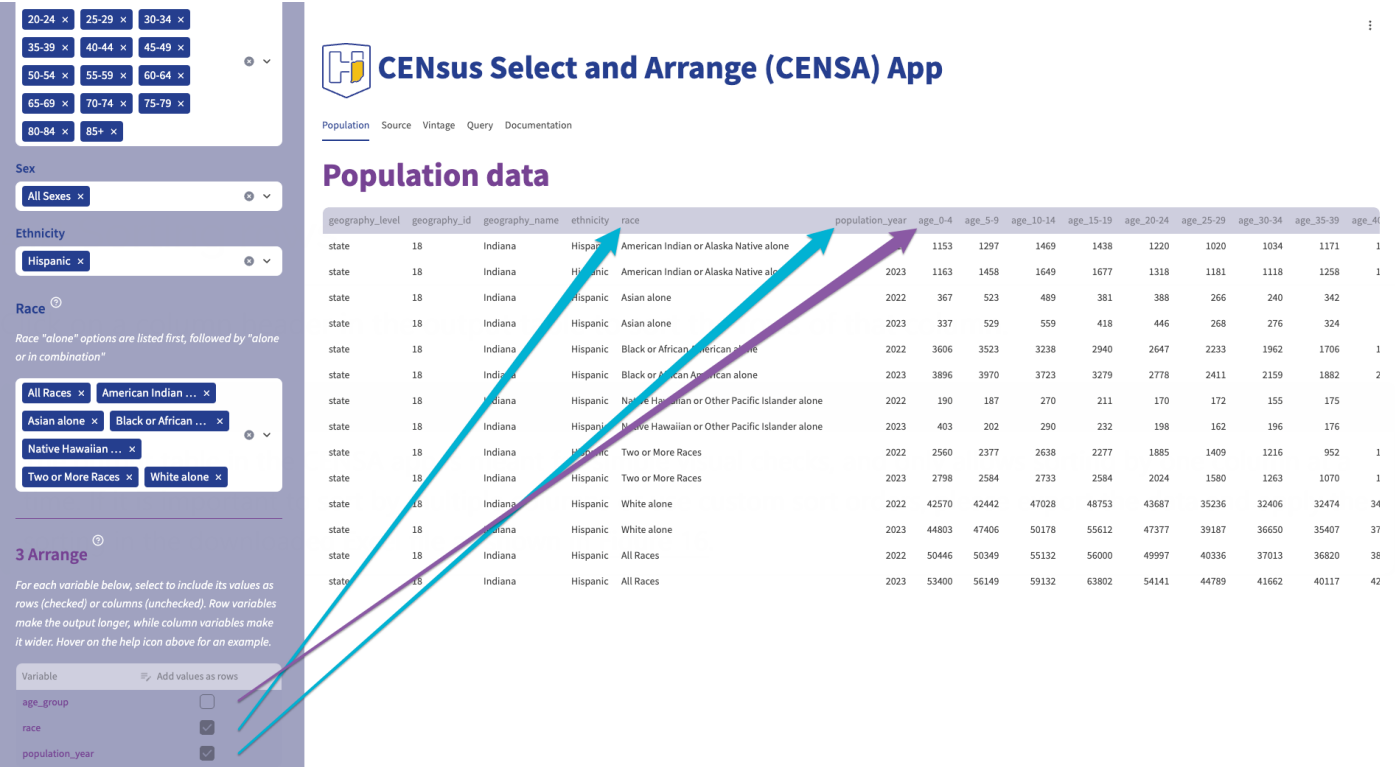


Figure 11: Hybrid format

4.1.4 Hybrid format (one is a row variable, two are column variables)

Figure 12 shows another hybrid example, with one **row variable** (`population_year`) and multiple **column variables** (`age_group` and `race`).

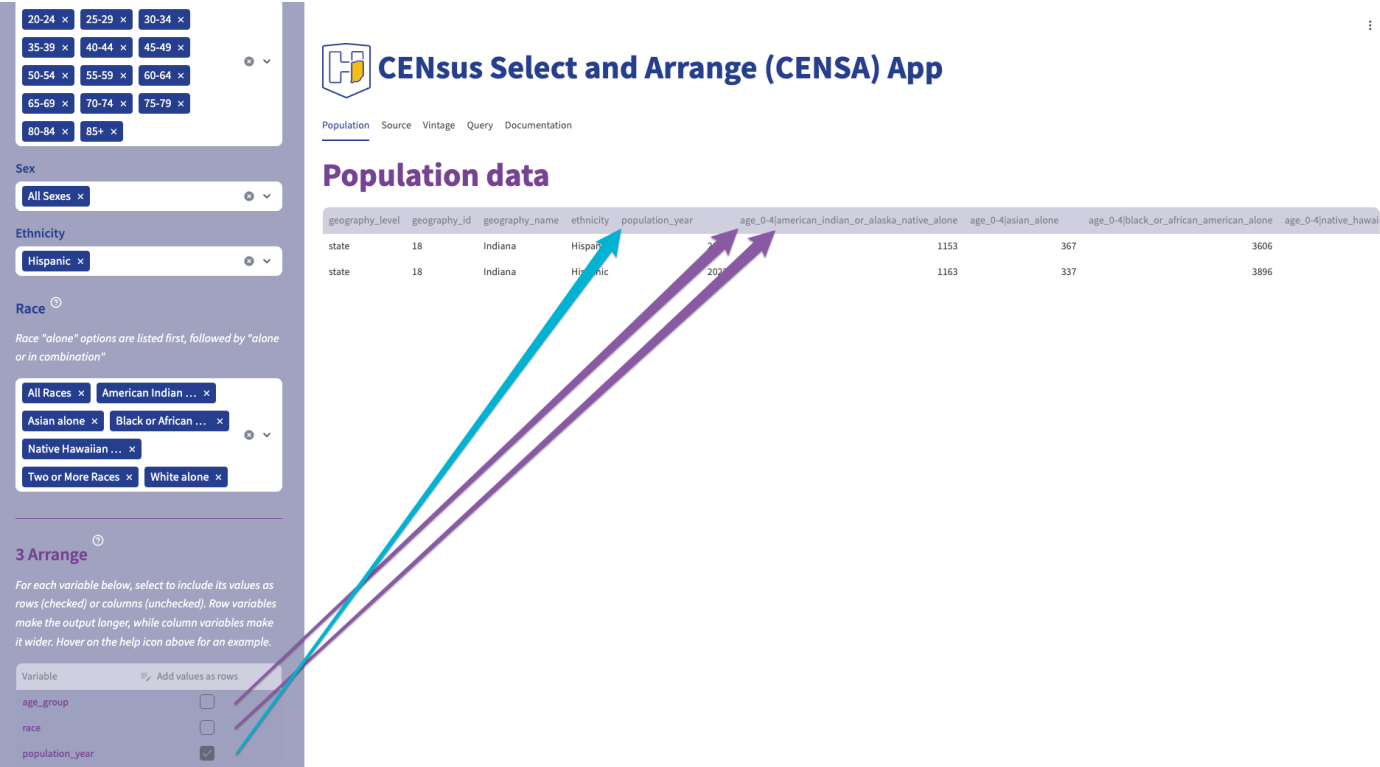


Figure 12: Another hybrid format

5 Download

After filtering the data, selecting demographics, and arranging the columns, the final step in the CENSA flow is to download the data as an Excel file. Click the 'Prepare arranged data' button (1), enter your name (2) and email address (3), and click the 'Submit and download' button (4) as shown in [Figure 13](#). The file should download, and then you can close the popup by clicking on the x in the top right corner (5).

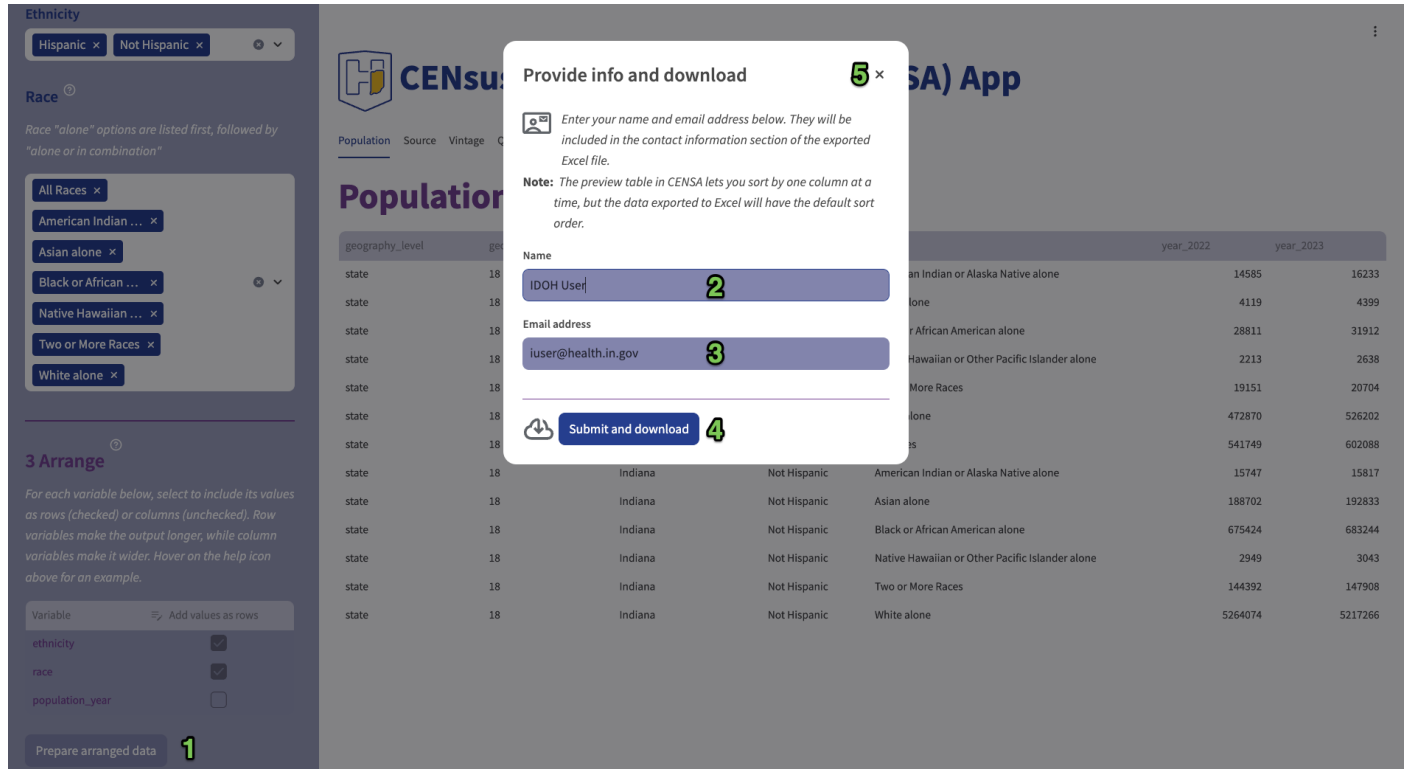


Figure 13: Prepare and download an Excel file with population data

Note

Depending on the filters, selections, and arrangements, the output table displayed in CENSA may be truncated. However, the Excel file will still include all the rows.

5.1 Excel sheets

The downloaded Excel file contains five sheets, which are briefly described in the following sections.

5.1.1 notes

The **notes** sheet describes the data, and provides caveats for responsible use.

1	The CENSA tool generates these output sheets:
2	• notes: Describes the data, and provides caveats for responsible use
3	• population: Contains population data for use in analysis, reports, and dashboards. For each population value in the sheet, there is a corresponding value in the same cell in the source_row and vintage sheets. For example, a population in cell B6 has corresponding values in B6 on the source_row and vintage sheets that refer to it.
4	• selections: Captures the settings selected in the app to generate this output file, and the dates the data and app were updated
5	• source_row: Identifies the source file(s) from the US Census FTP site and the exact row number(s) used to generate the population value, for traceability. If it was the result of an aggregation or calculation, the source value will have multiple source/row identifiers. If it has not been transformed in any way, it will have a single source/row identifier.
6	• vintage: Identifies the Census vintage; used for traceability
7	Demographic notes:
8	• Sex: The Census Bureau only provides binary sex/gender information.
9	• Ethnicity: The Census Bureau standard ethnicity values only include 'Hispanic' or 'Not Hispanic'.
10	• Race: The sum of population values for race "in combination" categories will be larger than the total population because an individual can choose multiple race combinations. Instead of summing those categories to get the total population for all races, the race "alone" categories have been used.
11	
12	
13	Other notes:
14	• Vintage: Over time, the Census Bureau updates their estimate of a population at a certain snapshot in time. For instance, they provide an initial estimate for 2020 based on the 2010 base census. Then they release the base counts for 2020 after finishing the 2020 decennial census. Then they release postcensal estimates for 2020, and update them each year until after the next decennial census in 2030, when they release an intercensal value for 2020.
15	For population years of 2011 and later, when you select the "best" vintage CENSA will include the postcensal estimate with a vintage that was released as close as possible to the population year. For example, the 2020 values will be from the 2020 postcensal estimate released during the 2020 vintage and we will not use the updated estimates from subsequent vintages (e.g. the releases for 2021, 2022, etc.). This provides more stability for analyses and reports.
16	For 2010 and earlier, CENSA only includes intercensal estimates. These are more readily available.
17	• Summing estimates: It is preferable to use population estimates provided directly by the US Census rather than summing more granular values. For example, use estimates for the state instead of summing values for the constituent counties.
18	
19	Contact info:
20	• CENSA: For questions about or issues with the CENSA tool, contact the support team at #IDOHODDataEngineers@health.in.gov
21	• Using the data: For questions about the Census data and how to use it for analysis and reporting, contact Jamie Black at jamblack@health.in.gov
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
45	
46	
47	
48	
49	
50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	
61	
62	
63	
64	
65	
66	
67	
68	
69	
70	
71	
72	
73	
74	
75	
76	
77	
78	
79	
80	
81	
82	
83	
84	
85	
86	
87	
88	
89	
90	
91	
92	
93	
94	
95	
96	
97	
98	
99	
100	
101	
102	
103	
104	
105	
106	
107	
108	
109	
110	
111	
112	
113	
114	
115	
116	
117	
118	
119	
120	
121	
122	
123	
124	
125	
126	
127	
128	
129	
130	
131	
132	
133	
134	
135	
136	
137	
138	
139	
140	
141	
142	
143	
144	
145	
146	
147	
148	
149	
150	
151	
152	
153	
154	
155	
156	
157	
158	
159	
160	
161	
162	
163	
164	
165	
166	
167	
168	
169	
170	
171	
172	
173	
174	
175	
176	
177	
178	
179	
180	
181	
182	
183	
184	
185	
186	
187	
188	
189	
190	
191	
192	
193	
194	
195	
196	
197	
198	
199	
200	
201	
202	
203	
204	
205	
206	
207	
208	
209	
210	
211	
212	
213	
214	
215	
216	
217	
218	
219	
220	
221	
222	
223	
224	
225	
226	
227	
228	
229	
230	
231	
232	
233	
234	
235	
236	
237	
238	
239	
240	
241	
242	
243	
244	
245	
246	
247	
248	
249	
250	
251	
252	
253	
254	
255	
256	
257	
258	
259	
260	
261	
262	
263	
264	
265	
266	
267	
268	
269	
270	
271	
272	
273	
274	
275	
276	
277	
278	
279	
280	
281	
282	
283	
284	
285	
286	
287	
288	
289	
290	
291	
292	
293	
294	
295	
296	
297	
298	
299	
300	
301	
302	
303	
304	
305	
306	
307	
308	
309	
310	
311	
312	
313	
314	
315	
316	
317	
318	
319	
320	
321	
322	
323	
324	
325	
326	
327	
328	
329	
330	
331	
332	
333	
334	
335	
336	
337	
338	
339	
340	
341	
342	
343	
344	
345	
346	
347	
348	
349	
350	
351	
352	
353	
354	
355	
356	
357	
358	
359	
360	
361	
362	
363	
364	
365	
366	
367	
368	
369	
370	
371	
372	
373	
374	
375	
376	
377	
378	
379	
380	
381	
382	
383	
384	
385	
386	
387	
388	
389	
390	
391	
392	
393	
394	
395	
396	
397	
398	
399	
400	
401	
402	
403	
404	
405	
406	
407	
408	
409	
410	
411	
412	
413	
414	
415	
416	
417	
418	
419	
420	
421	
422	
423	
424	
425	
426	
427	
428	
429	
430	
431	
432	
433	
434	
435	
436	
437	
438	
439	
440	
441	
442	
443	
444	
445	
446	
447	
448	
449	
450	
451	
452	
453	
454	
455	
456	
457	
458	
459	
460	
461	
462	
463	
464	
465	
466	
467	
468	
469	
470	
471	
472	
473	
474	
475	
476	
477	
478	
479	
480	
481	
482	
483	
484	
485	
486	
487	
488	
489	
490	
491	
492	
493	
494	
495	
496	
497	
498	
499	
500	
501	
502	
503	
504	
505	
506	
507	
508	
509	
510	
511	
512	
513	
514	
515	
516	
517	
518	
519	
520	
521	
522	
523	
524	
525	
526	
527	
528	
529	
530	
531	
532	
533	
534	
535	
536	
537	
538	
539	
540	
541	
542	
543	
544	
545	
546	
547	
548	
549	
550	
551	
552	
553	
554	
555	
556	
557	
558	
559	
560	
561	
562	
563	
564	
565	
566	
567	
568	
569	
570	
571	
572	
573	
574	
575	
576	
577	
578	
579	
580	
581	
582	
583	
584	
585	
586	
587	
588	
589	
590	
591	
592	
593	
594	
595	
596	
597	
598	
599	
600	
601	
602	
603	
604	
605	
606	
607	
608	
609	
610	
611	
612	
613	
614	
615	
616	
617	
618	
619	
620	
621	
622	
623	
624	
625	
626	
627	
628	
629	
630	
631	
632	
633	
634	
635	
636	
637	

5.1.3 population

The **population** sheet contains population data for use in analysis, reports, and dashboards. Use the features of Excel to apply more advanced sorting to the rows of the population table, if desired.

[illegible]

Figure 16: The **population** sheet

Note

For each population value in the sheet, there is a corresponding value in the same cell in the `source_row` ([Section 5.1.4](#)) and `vintage` ([Section 5.1.5](#)) sheets. For example, a population in cell B6 has corresponding values in B6 on the `source_row` and `vintage` sheets that refer to it.

5.1.4 source_row

The `source_row` sheet identifies the source file(s) from the US Census FTP site and the exact row number(s) used to generate the population value, for traceability. If it was the result of an aggregation or calculation, the source value will have multiple source/row identifiers. If it has not been transformed in any way, it will have a single source/row identifier.

id	year	year2	year3			
1	state	18	india	hispanic	american indian or alaska native alone	ocennile_rubesh-66211,66212,66221,66222,66225,66226,66227,66228,66229,66230,66231,66232,66233,66234,66235,66236,66237,66238,66239,66240,66241,66242,66243,66244,66245,66246,66247,66248,66249,66250,66251,66252,66253,66254,66255,66256,66257,66258,66259,66260,66261,66262,66263,66264,66265,66266,66267,66268,66269,66270,66271,66272,66273,66274,66275,66276,66277,66278,66279,66280,66281,66282,66283,66284,66285,66286,66287,66288,66289,66290,66291,66292,66293,66294,66295,66296,66297,66298,66299,66300,66301,66302,66303,66304,66305,66306,66307,66308,66309,66310,66311,66312,66313,66314,66315,66316,66317,66318,66319,66320,66321,66322,66323,66324,66325,66326,66327,66328,66329,66330,66331,66332,66333,66334,66335,66336,66337,66338,66339,66340,66341,66342,66343,66344,66345,66346,66347,66348,66349,66350,66351,66352,66353,66354,66355,66356,66357,66358,66359,66360,66361,66362,66363,66364,66365,66366,66367,66368,66369,66370,66371,66372,66373,66374,66375,66376,66377,66378,66379,66380,66381,66382,66383,66384,66385,66386,66387,66388,66389,66390,66391,66392,66393,66394,66395,66396,66397,66398,66399,66400,66401,66402,66403,66404,66405,66406,66407,66408,66409,66410,66411,66412,66413,66414,66415,66416,66417,66418,66419,66420,66421,66422,66423,66424,66425,66426,66427,66428,66429,66430,66431,66432,66433,66434,66435,66436,66437,66438,66439,66440,66441,66442,66443,66444,66445,66446,66447,66448,66449,66450,66451,66452,66453,66454,66455,66456,66457,66458,66459,66460,66461,66462,66463,66464,66465,66466,66467,66468,66469,66470,66471,66472,66473,66474,66475,66476,66477,66478,66479,66480,66481,66482,66483,66484,66485,66486,66487,66488,66489,66490,66491,66492,66493,66494,66495,66496,66497,66498,66499,66500,66501,66502,66503,66504,66505,66506,66507,66508,66509,66510,66511,66512,66513,66514,66515,66516,66517,66518,66519,66520,66521,66522,66523,66524,66525,66526,66527,66528,66529,66530,66531,66532,66533,66534,66535,66536,66537,66538,66539,66540,66541,66542,66543,66544,66545,66546,66547,66548,66549,66550,66551,66552,66553,66554,66555,66556,66557,66558,66559,66560,66561,66562,66563,66564,66565,66566,66567,66568,66569,66570,66571,66572,66573,66574,66575,66576,66577,66578,66579,66580,66581,66582,66583,66584,66585,66586,66587,66588,66589,66590,66591,66592,66593,66594,66595,66596,66597,66598,66599,66600,66601,66602,66603,66604,66605,66606,66607,66608,66609,66610,66611,66612,66613,66614,66615,66616,66617,66618,66619,66620,66621,66622,66623,66624,66625,66626,66627,66628,66629,66630,66631,66632,66633,66634,66635,66636,66637,66638,66639,66640,66641,66642,66643,66644,66645,66646,66647,66648,66649,66650,66651,66652,66653,66654,66655,66656,66657,66658,66659,66660,66661,66662,66663,66664,66665,66666,66667,66668,66669,66670,66671,66672,66673,66674,66675,66676,66677,66678,66679,66680,66681,66682,66683,66684,66685,66686,66687,66688,66689,66690,66691,66692,66693,66694,66695,66696,66697,66698,66699,66700,66701,66702,66703,66704,66705,66706,66707,66708,66709,66710,66711,66712,66713,66714,66715,66716,66717,66718,66719,66720,66721,66722,66723,66724,66725,66726,66727,66728,66729,66730,66731,66732,66733,66734,66735,66736,66737,66738,66739,66740,66741,66742,66743,66744,66745,66746,66747,66748,66749,66750,66751,66752,66753,66754,66755,66756,66757,66758,66759,66760,66761,66762,66763,66764,66765,66766,66767,66768,66769,66770,66771,66772,66773,66774,66775,66776,66777,66778,66779,66780,66781,66782,66783,66784,66785,66786,66787,66788,66789,66790,66791,66792,66793,66794,66795,66796,66797,66798,66799,66800,66801,66802,66803,66804,66805,66806,66807,66808,66809,66810,66811,66812,66813,66814,66815,66816,66817,66818,66819,66820,66821,66822,66823,66824,66825,66826,66827,66828,66829,66830,66831,66832,66833,66834,66835,66836,66837,66838,66839,66840,66841,66842,66843,66844,66845,66846,66847,66848,66849,66850,66851,66852,66853,66854,66855,66856,66857,66858,66859,66860,66861,66862,66863,66864,66865,66866,66867,66868,66869,66870,66871,66872,66873,66874,66875,66876,66877,66878,66879,66880,66881,66882,66883,66884,66885,66886,66887,66888,66889,66890,66891,66892,66893,66894,66895,66896,66897,66898,66899,66900,66901,66902,66903,66904,66905,66906,66907,66908,66909,66910,66911,66912,66913,66914,66915,66916,66917,66918,66919,66920,66921,66922,66923,66924,66925,66926,66927,66928,66929,66930,66931,66932,66933,66934,66935,66936,66937,66938,66939,66940,66941,66942,66943,66944,66945,66946,66947,66948,66949,66950,66951,66952,66953,66954,66955,66956,66957,66958,66959,66960,66961,66962,66963,66964,66965,66966,66967,66968,66969,66970,66971,66972,66973,66974,66975,66976,66977,66978,66979,66980,66981,66982,66983,66984,66985,66986,66987,66988,66989,66990,66991,66992,66993,66994,66995,66996,66997,66998,66999,67000,67001,67002,67003,67004,67005,67006,67007,67008,67009,67010,67011,67012,67013,67014,67015,67016,67017,67018,67019,67020,67021,67022,67023,67024,67025,67026,67027,67028,67029,67030,67031,67032,67033,67034,67035,67036,67037,67038,67039,67040,67041,67042,67043,67044,67045,67046,67047,67048,67049,67050,67051,67052,67053,67054,67055,67056,67057,67058,67059,67060,67061,67062,67063,67064,67065,67066,67067,67068,67069,67070,67071,67072,67073,67074,67075,67076,67077,67078,67079,67080,67081,67082,67083,67084,67085,67086,67087,67088,67089,67090,67091,67092,67093,67094,67095,67096,67097,67098,67099,67100,67101,67102,67103,67104,67105,67106,67107,67108,67109,67110,67111,67112,67113,67114,67115,67116,67117,67118,67119,67120,67121,67122,67123,67124,67125,67126,67127,67128,67129,67130,67131,67132,67133,67134,67135,67136,67137,67138,67139,67140,67141,67142,67143,67144,67145,67146,67147,67148,67149,67150,67151,67152,67153,67154,67155,67156,67157,67158,67159,67160,67161,67162,67163,67164,67165,67166,67167,67168,67169,67170,67171,67172,67173,67174,67175,67176,67177,67178,67179,67180,67181,67182,67183,67184,67185,67186,67187,67188,67189,67190,67191,67192,67193,67194,67195,67196,67197,67198,67199,67200,67201,67202,67203,67204,67205,67206,67207,67208,67209,67210,67211,67212,67213,67214,67215,67216,67217,67218,67219,67220,67221,67222,67223,67224,67225,67226,67227,67228,67229,67230,67231,67232,67233,67234,67235,67236,67237,67238,67239,67240,67241,67242,67243,67244,67245,67246,67247,67248,67249,67250,67251,67252,67253,67254,67255,67256,67257,67258,67259,67260,67261,67262,67263,67264,67265,67266,67267,67268,67269,67270,67271,67272,67273,67274,67275,67276,67277,67278,67279,67280,67281,67282,67283,67284,67285,67286,67287,67288,67289,67290,67291,67292,67293,67294,67295,67296,67297,67298,67299,67300,67301,67302,67303,67304,67305,67306,67307,67308,67309,67310,67311,67312,67313,67314,67315,67316,67317,67318,67319,67320,67321,67322,67323,67324,67325,67326,67327,67328,67329,67330,67331,67332,67333,67334,67335,67336,67337,67338,67339,67340,67341,67342,67343,67344,67345,67346,67347,67348,67349,67350,67351,67352,67353,67354,67355,67356,67357,67358,67359,67360,67361,67362,67363,67364,67365,67366,67367,67368,67369,67370,67371,67372,67373,67374,67375,67376,67377,67378,67379,67380,67381,67382,67383,67384,67385,67386,67387,67388,67389,67390,67391,67392,67393,67394,67395,67396,67397,67398,67399,67400,67401,67402,67403,67404,67405,67406,67407,67408,67409,67410,67411,67412,67413,67414,67415,67416,67417,67418,67419,67420,67421,67422,67423,67424,67425,67426,67427,67428,67429,67430,67431,67432,67433,67434,67435,67436,67437,67438,67439,67440,67441,67442,67443,67444,67445,67446,67447,67448,67449,67450,67451,67452,67453,67454,67455,67456,67457,67458,67459,67460,67461,67462,67463,67464,67465,67466,67467,67468,67469,67470,67471,67472,67473,67474,67475,67476,67477,67478,67479,67480,67481,67482,67483,67484,67485,67486,67487,67488,67489,67490,67491,67492,67493,67494,67495,67496,67497,67498,67499,67500,67501,67502,67503,67504,67505,67506,67507,67508,67509,67510,67511,67512,67513,67514,67515,67516,67517,67518,67519,67520,67521,67522,67523,67524,67525,67526,67527,67528,67529,67530,67531,67532,67533,67534,67535,67536,67537,67538,67539,67540,67541,67542,67543,67544,67545,67546,67547,67548,67549,67550,67551,67552,67553,67554,67555,67556,67557,67558,67559,67560,67561,67562,67563,67564,67565,67566,67567,67568,67569,67570,67571,67572,67573,67574,67575,67576,67577,67578,67579,67580,67581,67582,67583,67584,67585,67586,67587,67588,67589,67590,67591,67592,67593,67594,67595,67596,67597,67598,67599,67600,67601,67602,67603,67604,67605,67606,67607,67608,67609,67610,67611,67612,67613,67614,67615,67616,67617,67618,67619,67620,67621,67622,67623,67624,67625,67626,67627,67628,67629,67630,67631,67632,67633,67634,67635,67636,67637,67638,67639,67640,67641,67642,67643,67644,67645,67646,67647,67648,67649,67650,67651,67652,67653,67654,67655,67656,67657,67658,67659,67660,67661,67662,67663,67664,67665,67666,67667,67668,67669,67670,67671,67672,67673,67674,67675,67676,67677,67678,67679,67680,67681,67682,67683,67684,67685,67686,67687,67688,67689,67690,67691,67692,67693,67694,67695,67696,67697,67698,67699,67700,67701,67702,67703,67704,67705,67706,67707,67708,67709,67710,67711,67712,67713,67714,67715,67716,67717,67718,67719,67720,67721,67722,67723,67724,67725,67726,67727,67728,67729,67730,67731,67732,67733,67734,67735,67736,67737,67738,67739,67740,67741,67742,67743,67744,67745,67746,67747,67748,67749,67750,67751,67752,67753,67754,67755,67756,67757,67758,67759,67760,67761,67762,67763,67764,67765,67766,67767,67768,67769,67770,67771,67772,67773,67774,67775,67776,67777,67778,67779,67780,67781,67782,67783,67784,67785,67786,67787,67788,67789,67790,67791,67792,67793,67794,67795,67796,67797,67798,67799,67800,67801,67802,67803,67804,67805,67806,67807,67808,67809,67810,67811,67812,67813,67814,67815,67816,67817,67818,67819,67820,67821,67822,67823,67824,67825,67826,67827,67828,67829,67830,67831,67832,67833,67834,67835,67836,67837,67838,67839,67840,67841,67842,67843,67844,67845,67846,67847,67848,67849,67850,67851,67852,67853,67854,67855,67856,67857,67858,67859,67860,67861,67862,67863,67864,67865,67866,67867,67868,67869,67870,67871,67872,67873,67874,67875,67876,67877,67878,67879,67880,67881,67882,67883,67884,67885,67886,67887,67888,67889,67890,67891,67892,67893,67894,67895,67896,67897,67898,67899,67900,67901,67902,67903,67904,67905,67906,67907,67908,67909,67910,67911,67912,67913,67914,67915,67916,67917,67918,67919,67920,67921,67922,67923,67924,67925,67926,67927,67928,67929,67930,67931,67932,67933,67934,67935,67936,67937,67938,67939,67940,67941,67942,67943,67944,67945,67946,67947,67948,67949,67950,67951,67952,67953,67954,67955,67956,67957,67958,67959,67960,67961,67962,67963,67964,67965,67966,67967,67968,67969,67970,67971,67972,67973,67974,67975,67976,67977,67978,67979,67980,67981,67982,67983,67984,67985,67986,67987,67988,67989,67990,67991,67992,67993,67994,67995,67996,67997,67998,67999,68000,68001,68002,68003,68004,68005,68006,68007,68008,68009,68010,68011,68012,68013,68014,68015,68016,68017,68018,68019,68020,68021,68022,68023,68024,68025,68026,68027,68028,68029,68030,68031,68032,68033,68034,68035,68036,68037,68038,68039,68040,68041,68042,68043,68044,68045,68046,68047,68048,68049,68050,68051,68052,68053,68054,68055,68056,68057,68058,68059,68060,68061,68062,68063,68064,68065,68066,68067,68068,68069,68070,68071,68072,68073,68074,68075,68076,68077,68078,68079,68080,68081,68082,68083,68084,68085,68086,68087,68088,68089,68090,68091,68092,68093,68094,68095,68096,68097,68098,68099,68100,68101,68102,68103,68104,68105,68106,68107,68108,68109,68110,68111,68112,68113,68114,68115,68116,68117,68118,68119,68120,68121,68122,68123,68124,68125,68126,68127,68128,68129,68130,68131,68132,68133,68134,68135,68136,68137,68138,68139,68140,68141,68142,68143,68144,68145,68146,68147,68148,68149,68150,68151,68152,68153,68154,68155,68156,68157,68158,68159,68160,68161,68162,68163,68164,68165,68166,68167,68168,68169,68170,68171,68172,68173,68174,68175,68176,68177,68178,68179,68180,68181,68182,68183,68184,68185,68186,68187,68188,68189,68190,68191,68192,68193,68194,68195,68196,68197,68198,68199,68200,68201,68202,68203,68204,68205,68206,68207,68208,68209,68210,68211,68212,68213,68214,68215,68216,68217,68218,68219,68220,68221,68222,68223,68224,68225,68226,68227,68228,68229,68230,68231,68232,68233,68234,68235,68236,68237,68238,68239,68240,68241,68242,68243,68244,68245,68246,68247,68248,68249,68250,68251,68252,68253,68254,68255,68256,68257,68258,68259,68260,68261,68262,68263,68264,68265,68266,68267,68268,68269,68

Figure 17: The `source_row` sheet

5.1.5 vintage

The **vintage** sheet identifies the Census vintage, and is helpful for traceability.

row_number	geography_level	geography_id	geography_name	ethnicity	race	year_2022	year_2023
1	state	18	Indiana	Hispanic	American Indian or Alaska Native alone	57d6c2dd	f5794105
2	state	18	Indiana	Hispanic	Asian alone	57d6c2dd	f5794105
3	state	18	Indiana	Hispanic	Black or African American alone	57d6c2dd	f5794105
4	state	18	Indiana	Hispanic	Native Hawaiian or Other Pacific Islander alone	57d6c2dd	f5794105
5	state	18	Indiana	Hispanic	Two or More Races	57d6c2dd	f5794105
6	state	18	Indiana	Hispanic	White alone	57d6c2dd	f5794105
7	state	18	Indiana	Hispanic	All Races	57d6c2dd	f5794105
8	state	18	Indiana	Not Hispanic	American Indian or Alaska Native alone	57d6c2dd	f5794105
9	state	18	Indiana	Not Hispanic	Asian alone	57d6c2dd	f5794105
10	state	18	Indiana	Not Hispanic	Black or African American alone	57d6c2dd	f5794105
11	state	18	Indiana	Not Hispanic	Native Hawaiian or Other Pacific Islander alone	57d6c2dd	f5794105
12	state	18	Indiana	Not Hispanic	Two or More Races	57d6c2dd	f5794105
13	state	18	Indiana	Not Hispanic	White alone	57d6c2dd	f5794105
14	state	18	Indiana	Not Hispanic	All Races	57d6c2dd	f5794105

▶ notes selections population source_row vintage +

Figure 18: The **vintage** sheet

6 Repeat (if necessary)

If you need data for multiple geography levels, perform the entire workflow for the first geography and download the resulting file. Then, update the geography level, make any additional changes in the filter section, click the 'Apply filters' button, tweak any other demographic selections if necessary, and perform the download process again.

Note

To reset all the filters and demographic selections, refresh the page in your browser.

7 Population, Source, Vintage, Query, and Documentation tabs

[Figure 19](#) shows the five navigation tabs near the top of the CENSA application.



CENsus Select and Arrange (CENSA) App

Population Source Vintage Query Documentation

Figure 19: Population, Source, Vintage, Query, and Documentation tabs

The **Population** tab is the one most users will use most of the time. It shows the population data and is updated based on the [filters](#), [demographic selections](#), and data [arrangements](#) selectors in the left panel.

The **Source** and **Vintage** tabs have the same format as the Population tab, but show the identifiers of the US Census data source files and the vintages selected, for traceability purposes.

The **Query** tab is for power users who prefer to write their own SQL queries using the standardized population data that powers CENSA.

The **Documentation** tab has previews and links to this [CENSA User Guide](#) and to the [Census FAQs](#).

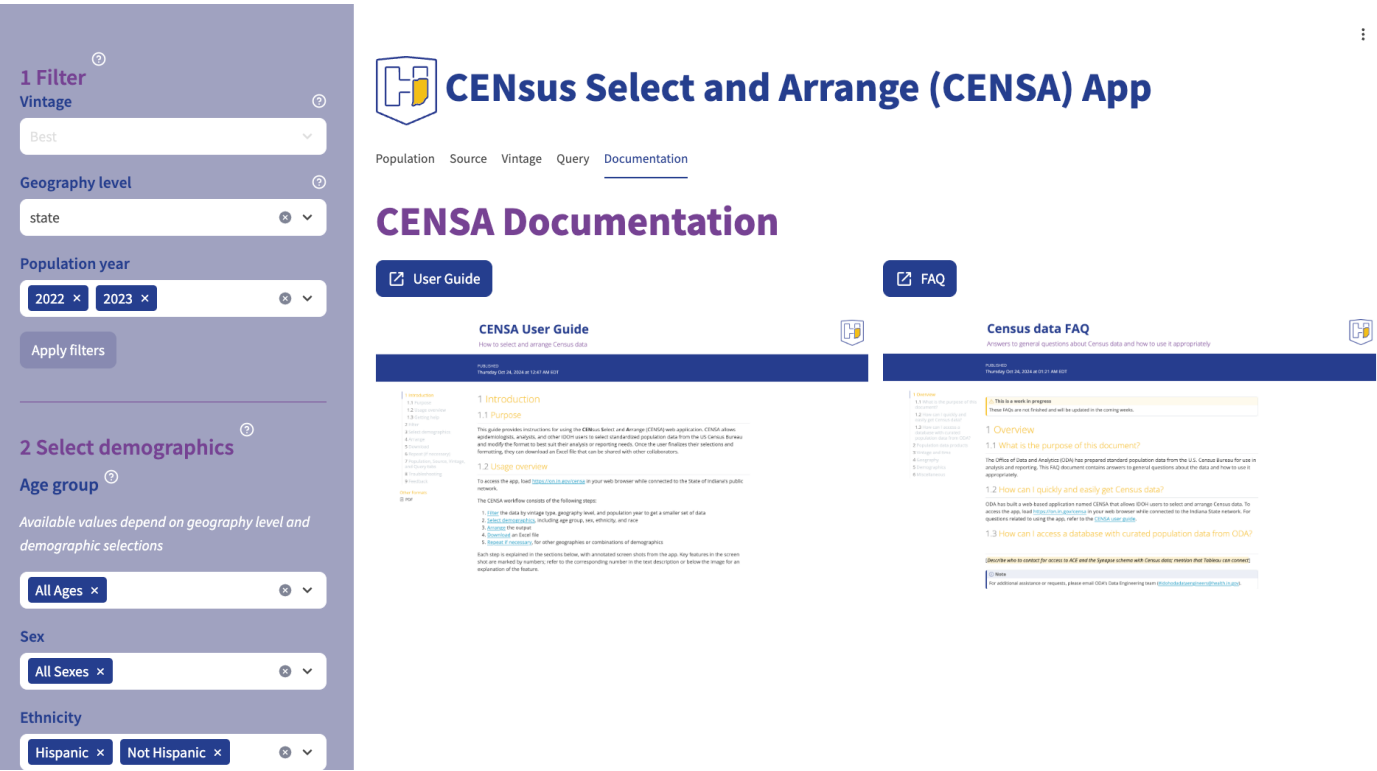


Figure 20: Documentation tab

8 Troubleshooting

Refer to this section for troubleshooting tips if you encounter issues with CENSA.

8.1 CENSA container app is stopped after business hours

To conserve costs, the Azure container application that powers CENSA is shut down on the weekends and from 10pm until 4am during the week. If you try to use CENSA during those times you will see an error page like [Figure 21](#). Please **wait until business hours and try again**.

Error 404 - This Container App is stopped or does not exist.

The Container App you have attempted to reach is currently stopped or does not exist.

If you are the Container App administrator, please visit [Azure Portal](#).

Figure 21: CENSA will show this error page when it is stopped after business hours

8.2 CENSA is slow to load

If no one has used CENSA recently, the servers hibernate during business hours to save costs. If you are loading the application in your browser for the first time since it hibernated, you will need to **wait slightly longer** (roughly 20 seconds) for CENSA to be ready.

8.3 Unable to load CENSA

CENSA was developed for the Indiana Department of Health, and the website is blocked unless you access it from the State of Indiana public subnet. If you get an error message **RBAC: access denied** when loading <https://on.in.gov/censa>, **connect to the public state network at an IDOH office, via the IOT VPN, or from within the IDOH ACE environment** (if you have access to it).

8.4 CENSA is stuck or gives an error

If the app becomes stuck when loading or the [Query tab](#) displays an error, **clear your browser's cache and refresh the page**.

8.5 Too much data to download

Microsoft Excel can only handle a maximum of 1,048,576 rows and 16,384 columns. You might exceed these limits if you select a small geography level (such as county) with several years of data, depending on how you have [arranged](#) the variables. If you get a message about too many rows or columns, **select less data or rearrange the columns** before attempting to download it again. For example, select fewer years or demographic values. Convert some variables to row variables if you have too many columns, or to column variables if you have too many rows.

8.6 Download error: "file wasn't available on site"

If your browser's download icon shows an error like [Figure 22](#) after you hit 'Download arranged data', **click the button to download the data again**. It should work the second time.

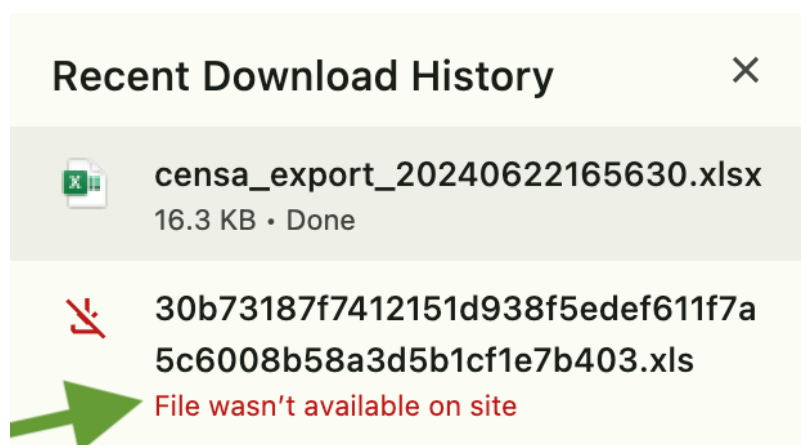


Figure 22: Error indicating the file should be downloaded again

8.7 Problem with content in the Excel file

When you try to open the downloaded Excel file, you may see an alert like the one shown in [Figure 23](#) that mentions a problem with the content. **Click 'Yes'** and the file should open correctly.

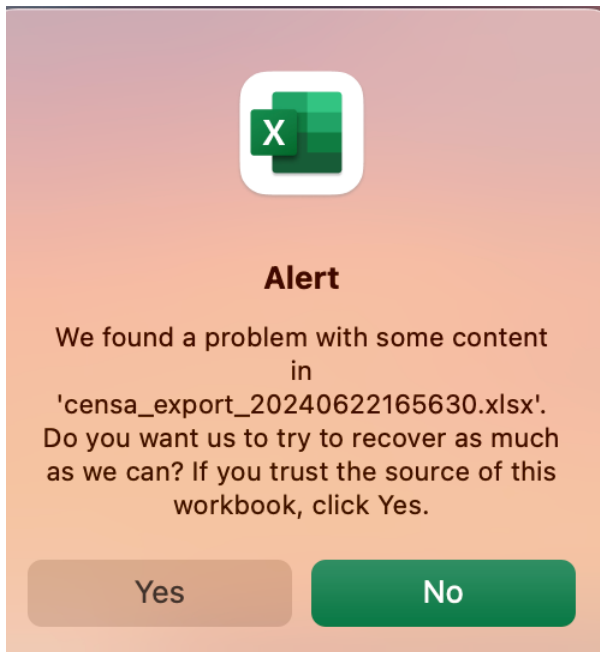


Figure 23: Click 'Yes' to recover the content in the downloaded Excel file

8.8 I need data that is not available in CENSA

CENSA includes population data for many geographies, population years, and demographic combinations, but it is not exhaustive. Some data is just not available from the US Census. Other data is available, but in a different format that ODA has deemed a lower priority to include. For example, CENSA does not contain data by ZIP code. The [Census FAQ](#) document contains additional details.

In the future, ODA may incorporate additional Census data. If you have a suggestion, please **send an email** to Jamie Black (jamblack@health.in.gov).

9 Feedback

The Office of Data and Analytics hopes CENSA makes it easier and more efficient for IDOH team members to incorporate population data in analyses and reports so that they can repurpose that time to positively impact the lives of Hoosiers. Was CENSA helpful? Or was your experience with CENSA less than ideal? Whatever the case, we want to hear your feedback! Let us know what does or doesn't work well, about bugs you've encountered, and ideas for improvements or features you would like to see in the future.

Click the menu icon (three dots) in the upper-right corner of the app as shown below to [submit your feedback](#).



CENsus Select and Arrange (CENSA) App



Figure 24: How to get more info and submit feedback