

# Springtides report

Report generated by the Oxygen Springtides App  
Input parameters selected by Anonymous user

March 19, 2020

## Purpose

The purpose of this report is to aid developpers using the Springtides app by providing transparency about how input values used in rendering functions are translated into output values that are the building blocks from which outputted reports can be created. This brief report displays the input parameter values used in the function call to create this report and the output values created when processing those inputs. Key structural features of this report such as the document format, document title, author list and layout are also determined by the inputs to the function that rendered this report.

## Inputs

The inputs that were used to generated this report are a combination of default values contained in the YAML tags at the start of a template RMD document and any values specified in a list object passed to the “params” argument in a call to the render function from the rmarkdown package. The YAML tags contain the default values, but these defaults can be overwritten in the function call.

The input parameter values are contained in an object called “params” and are listed here:

```
params
```

```
## $age_lower
## [1] 16
##
## $age_upper
## [1] 25
##
## $data_pckg_chr
## [1] "springtides"
##
## $disorder_chr
## [1] "Any_Affective_Disorder"
##
## $gdist_dbl
## [1] NA
##
## $gdist_ttime_chr
## [1] NA
##
## $input_ls_path_chr
```

```

## [1] "C:/Users/mahamilton/Desktop/Readyforwhatsnext/Data/Project/input_ls_4.rds"
##
## $meso2_bound_yr
## [1] 2011
##
## $meso2_chr
## [1] "0800"
##
## $meso2_name_chr
## [1] "0800 Postal Area"
##
## $meso2_type_chr
## [1] "POA"
##
## $micro_chr_vec
## [1] NA
##
## $model_end_date
## [1] "2020-03-19"
##
## $model_start_date
## [1] "2016-07-01 12:00:00 AEST"
##
## $n_its_int
## [1] 10
##
## $pa_r4_chr
## [1] "aus_pa_r4"
##
## $pa_type_chr
## [1] "HSS"
##
## $pdf_output_lgl
## [1] FALSE
##
## $r_data_dir_chr
## [1] "C:/Users/mahamilton/Desktop/Readyforwhatsnext/Data/R_Format"
##
## $rendered_by_shiny_lgl
## [1] FALSE
##
## $sim_data_r4_path_chr
## [1] "C:/Users/mahamilton/Desktop/Readyforwhatsnext/Data/Project/sim_data_r4_4.rds"
##
## $sim_results_ls_path_chr
## [1] "C:/Users/mahamilton/Desktop/Readyforwhatsnext/Data/Project/sim_results_ls_4.rds"
##
## $stat_chr
## [1] "Prevalence - Annual"
##
## $title_chr
## [1] "Springtides report"
##
## $ttime_dbl

```

```

## [1] NA
##
## $uncertainty_1_int
## [1] 0.025
##
## $uncertainty_2_int
## [1] 0.975
##
## $user_name_chr
## [1] "Anonymous user"

```

## Outputs

These inputs are used to create the building blocks (objects and associated parameter values) that can be assembled (via an RMD report template) into a Springtides report. These building blocks are created by a call to the “make\_output\_params\_ls” function and are best stored in a list object (such as “output\_params\_ls” below) that can be referenced throughout any template RMD document that you create for your own custom reports.

The values of the output\_params\_ls object are reported below.

```
output_params_ls <- springtides::make_output_params_ls(input_params_ls = params)
output_params_ls
```

```

## $age_lower
## [1] 16
##
## $age_upper
## [1] 25
##
## $disorder_chr
## [1] "Any_Affective_Disorder"
##
## $input_ls
## $input_ls$age_lower
## [1] 19
##
## $input_ls$age_upper
## [1] 25
##
## $input_ls$sexes
## [1] "Female" "Male"
##
## $input_ls$disorder
## [1] "Any_Affective_Disorder"
##
## $input_ls$at_highest_res
## [1] "ERP_TOT" "ERP_ASX"
##
## $input_ls$at_specified_res
## $input_ls$at_specified_res$a
## [1] "PPR" "XX1"
##
```

```

##
## $input_ls$age_sex_pop_str
## [1] "ERP_ASX"
##
## $input_ls$group_at_profile_unit
## [1] TRUE
##
## $input_ls$pop_projs_str
## [1] "PPR"
##
## $input_ls$pa_r4
## An object of class "ready4_profiled_area"
## Slot "features":
## [1] "0800"
##
## Slot "use_coord_lup":
## [1] FALSE
##
## Slot "geom_dist_limit_km":
## [1] NA
##
## Slot "drive_time_limit_mins":
## [1] NA
##
## Slot "nbr_bands":
## [1] NA
##
## Slot "data_year":
## [1] "2016"
##
## Slot "data_ymds":
## [1] "2016-07-01 12:00:00 AEST"
##
## Slot "geom_dist_km_cuts":
## [1] NA
##
## Slot "travel_time_mins_cuts":
## [1] NA
##
## Slot "travel_mode":
## [1] NA
##
## Slot "area_type":
## [1] "POA"
##
## Slot "area":
## [1] NA
##
## Slot "area_bound_year":
## [1] 2011
##
## Slot "region_type":
## [1] "STE"
##

```

```

## Slot "region":
## [1] NA
##
## Slot "region_bound_year":
## [1] 2016
##
## Slot "global_region":
## [1] NA
##
## Slot "country":
## [1] "Australia"
##
## Slot "country_bound_year":
## [1] NA
##
## Slot "lookup_tb":
## Aus_16_31_lookup
##   Abbreviations: # A tibble: 31 x 2   long_name           short_name ...
##   Raw_Data_Source: # A tibble: 39 x 26   st_context name  country area_type area_bound_yr region ...
##   #   year_start <chr>, year_end <chr>, uid <chr>, add_boundaries <list>,
##   #   local_file_src <chr>, make_script_src <chr>, download_url <chr>,
##   #   inc_file_main <chr>, inc_files_to_rename <list>,
##   #   new_names_for_inc_files <list>, file_type <chr>, file_name <chr>,
##   #   data_repo <chr>, data_repo_ui <chr>, data_repo_db_ui <chr>,
##   #   data_repo_file_ext <chr>, data_repo_save_type <chr>
##   Data_Packs:  # A tibble: 39 x 14   name  country area_type area_bound_yr region data_type main_fe ...
##   #   year_end <chr>, source_reference <chr>, additional_detail <chr>,
##   #   start_from <dbl>, shiny_source <chr>
##   Data_Resolution: # A tibble: 14 x 7   parent_area boundary_year area_type area_count complete sum ...
##   Site_Coordinates: # A tibble: 104 x 7   service_type cluster_name service_name    lat  long PHN ...
##   Starter_Geometries: # A tibble: 15 x 5   country  area_type area_bound_yr starter_sf ...
##   Unique_IDs:   # A tibble: 15 x 3   spatial_unit year  var_name    <chr>      <chr> <chr> ...
##   Context:    Australia
##
## Slot "crs_nbr":
## [1] 4283 3577
##
## Slot "temporal_min":
## [1] "2016-07-01 12:00:00 AEST"
##
## Slot "temporal_max":
## [1] "2031-07-01 12:00:00 AEST"
##
## $input_ls$tot_pop_str
## [1] "ERP_TOT"
##
## $input_ls$model_start_ymdhms
## [1] "2018-07-01 12:00:00 AEST"
##
## $input_ls$nbr_steps_start_to_end
## [1] 1
##
## $input_ls$simulation_steps_ymwd

```

```

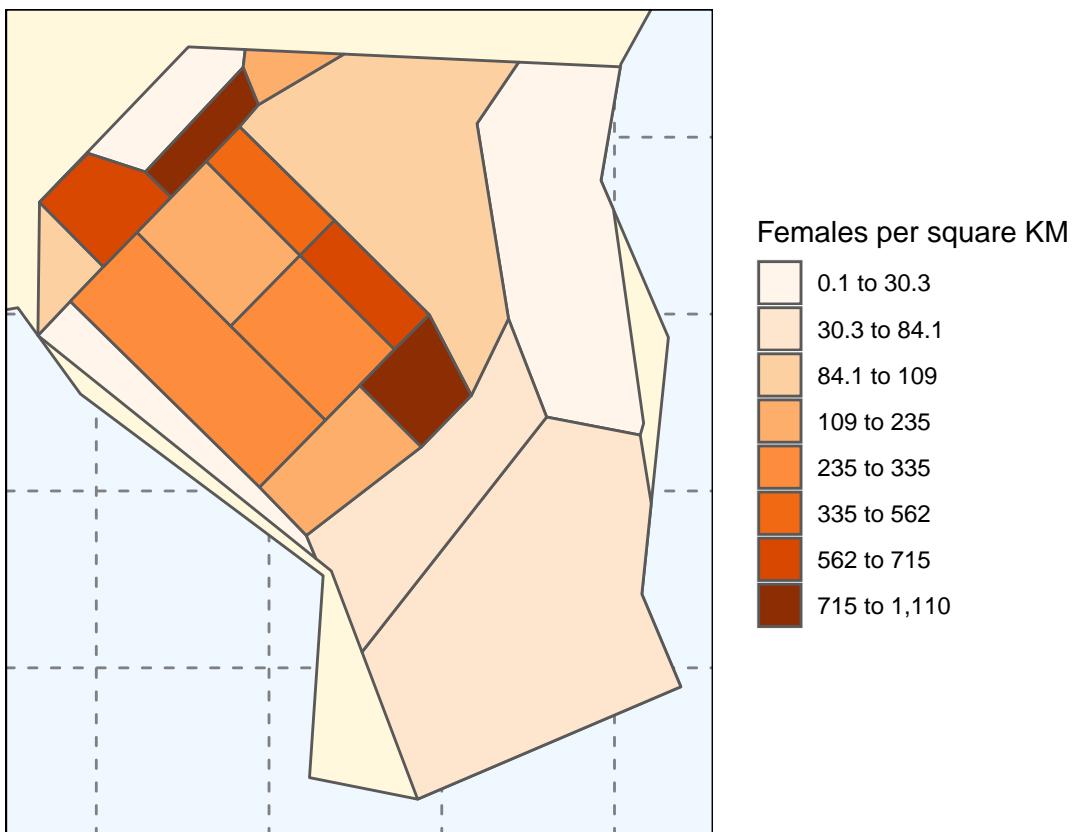
## [1] 1 8 0 0 0 0 0
##
## $input_ls$deterministic
## [1] FALSE
##
## $input_ls$n_its_int
## [1] 10
##
## $input_ls$uncertainty_int
## [1] 0.025 0.975
##
## $input_ls$env_str_par_tb
## # A tibble: 57 x 10
##   param_name deter_val distribution dist_param_1 dist_param_2 dist_param_3
##   <chr>        <dbl> <chr>          <dbl>          <dbl>          <dbl>
## 1 pop_pe_si~     0 uniform        NA            NA            NA
## 2 mape_05_y~     0 pert           3.5           0             7
## 3 mape_05_y~     0 pert           1.2           0            2.4
## 4 mape_05_y~     0 pert           1.5           0             3
## 5 mape_05_y~     0 pert           1.2           0            2.4
## 6 mape_05_y~     0 pert           2             0             4
## 7 mape_05_y~     0 pert           2.8           0            5.6
## 8 mape_05_y~     0 pert           3.5           0             7
## 9 mape_05_y~     0 pert           1.2           0            2.4
## 10 mape_05_y~    0 pert           1.4           0            2.8
## # ... with 47 more rows, and 4 more variables: dist_param_4 <int>,
## #   transformation <chr>, use_in <chr>, source <lgl>
##
## $input_ls$grouping_for_sim
## [1] "SA2_MAIN16"
##
##
## $input_tables_ls
## $input_tables_ls$boundary_input_lup_tb
## \begin{table}
## \caption{\label{tab:unnamed-chunk-3}Table 1: Boundary Input Data}
## \centering
## \begin{tabular}[t]{lllll}
## \toprule
## Spatial Unit & Boundary Year & Extent & Source\\
## \midrule
## Postal Area & 2011 & National & <a href="https://www.abs.gov.au/AUSSTATS/Subscriber.nsf/log?openagent"
## State and Territory & 2016 & National & <a href="http://www.abs.gov.au/AUSSTATS/Subscriber.nsf/log?op
## Statistical Area 1 & 2016 & National & <a href="http://www.abs.gov.au/AUSSTATS/Subscriber.nsf/log?op
## Statistical Area 2 & 2016 & National & <a href="http://www.abs.gov.au/AUSSTATS/Subscriber.nsf/log?op
## Statistical Area 3 & 2016 & National & <a href="http://www.abs.gov.au/AUSSTATS/Subscriber.nsf/log?op
## \bottomrule
## \end{tabular}
## \end{table}
##
## $input_tables_ls$attributes_input_kb
## \begin{table}
## 
```

```

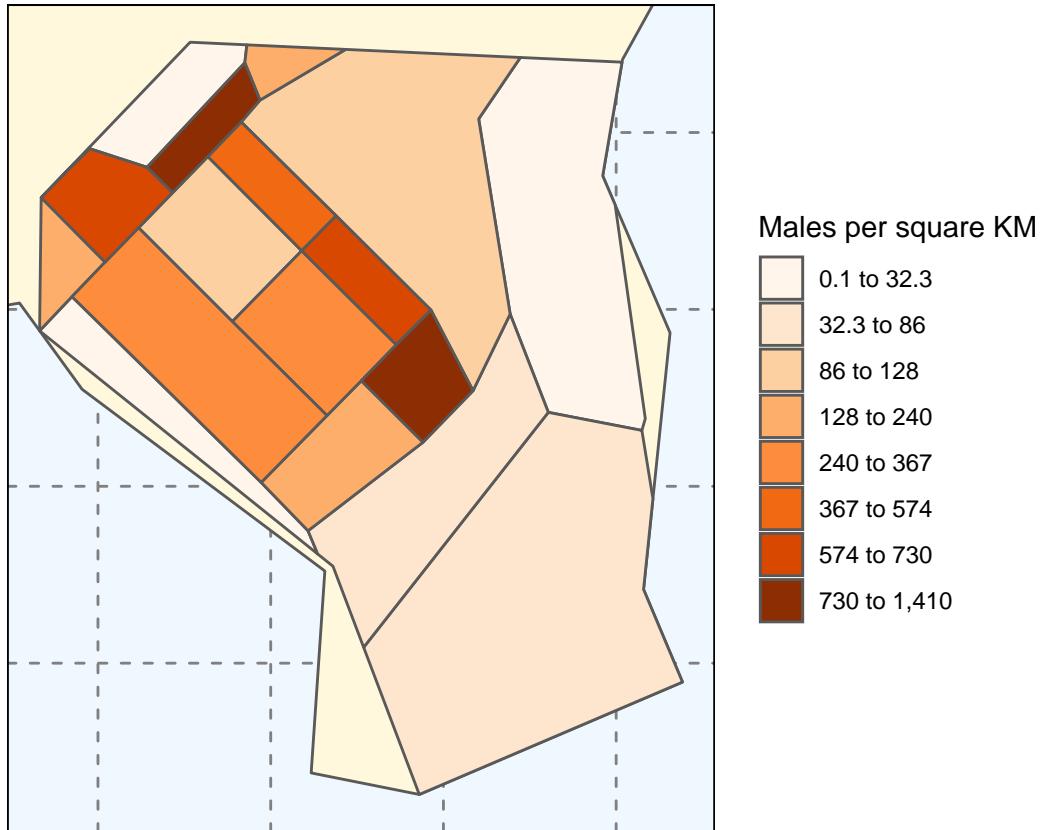
## \caption{\label{tab:unnamed-chunk-3}Table 1: Spatial Attribute Input Data}
## \centering
## \begin{threeparttable}
## \begin{tabular}[t]{lllll}
## \toprule
## Attribute & Spatial Unit & Boundary Year & Extent & Source\\
## \midrule
## EPI_PARAMS & Australia & 2016 & National & Springtides Replication Dataset\\
## ERP_ASX & Statistical Area 2 & 2016 & NT & <a href="http://www.abs.gov.au/ausstats/subscriber.nsf/lo...
## ERP_TOT & Statistical Area 1 & 2016 & National & <a href="https://www.qgso.qld.gov.au/issues/5506/es...
## PPR & Statistical Area 3 & 2016 & NT & <a href="https://treasury.nt.gov.au/_data/assets/excel_doc/0...
## PPR_MAPE & Australia & 2016 & National & Springtides Replication Dataset\\
## \bottomrule
## \end{tabular}
## \end{threeparttable}
## \begin{tablenotes}[para]
## \item \underline{\textit{Abbreviations:}}
## \item EPI\_PARAMS: Epidemiology parameters
## \item ERP\_ASX: Estimated Resident Population by Age and Sex
## \item ERP\_TOT: Estimated Resident Population All Ages
## \item PPR: Population projections
## \item PPR\_MAPE: Mean Absolute Prediction Error of ABS Population Projections
## \end{tablenotes}
## \end{threeparttable}
## \end{table}
##
## $input_tables_ls$epi_inputs_kb
## \begin{table}
## \caption{\label{tab:unnamed-chunk-3}Table 1: Input data for Annual Prevalence of Any Affective Disorder}
## \centering
## \begin{threeparttable}
## \begin{tabular}[t]{l|l|r|r|r|l}
## \hline
## Age range & Sex & Rate & UI Low Bound (2.5\%) & UI High Bound (97.5\%) & Source\\
## \hline
## 16 to 24 & Female & 0.084 & 0.060 & 0.109 & 1\\
## \hline
## 25 to 25 & Female & 0.084 & 0.069 & 0.100 & 1\\
## \hline
## 16 to 24 & Male & 0.043 & 0.025 & 0.061 & 1\\
## \hline
## 25 to 25 & Male & 0.077 & 0.053 & 0.102 & 1\\
## \hline
## \end{tabular}
## \end{threeparttable}
## \begin{tablenotes}[para]
## \item \underline{\textit{Citations:}}
## \item 1: Reavley NJ, Cvetkovski S, Jorm AF, Lubman DI. Help-seeking for substance use, anxiety and a...
## \end{tablenotes}
## \end{threeparttable}
## \end{table}
##
## $meso2_name_chr
## [1] "0800 Postal Area"

```

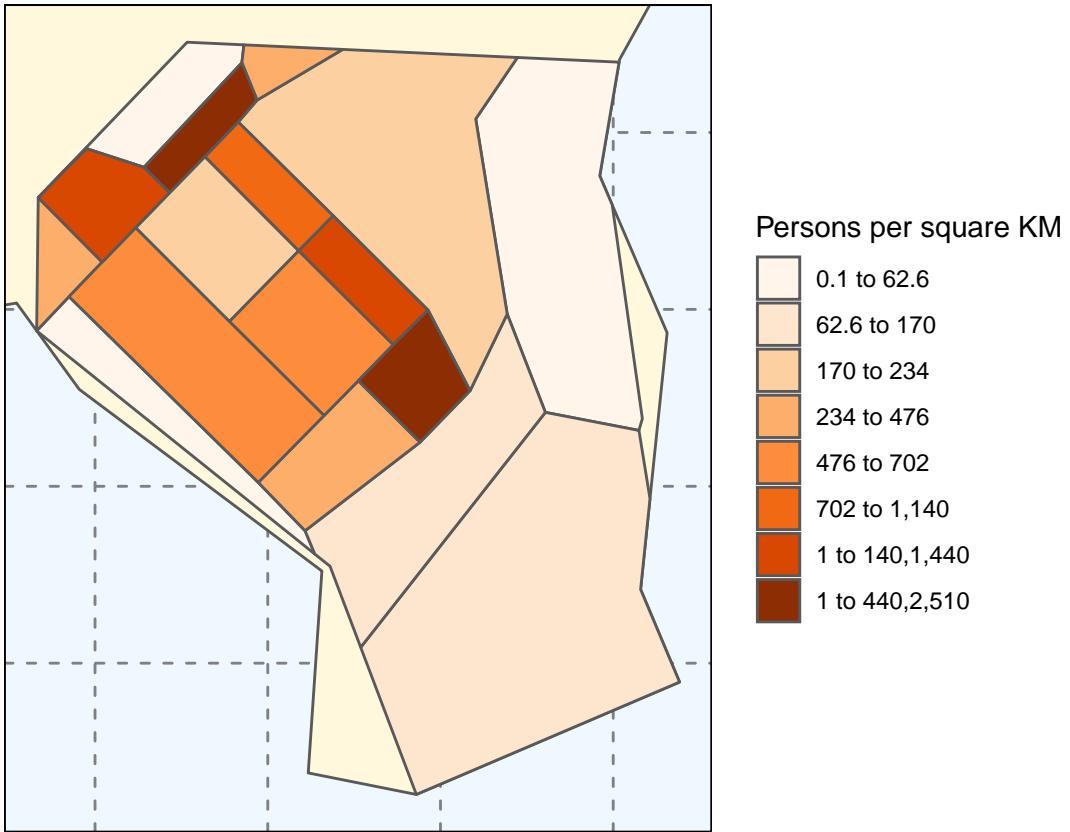
```
##  
## $meso2_type_chr  
## [1] "POA"  
##  
## $n_its_int  
## [1] 10  
##  
## $output_plots_ls  
## $output_plots_ls$Figure_1
```



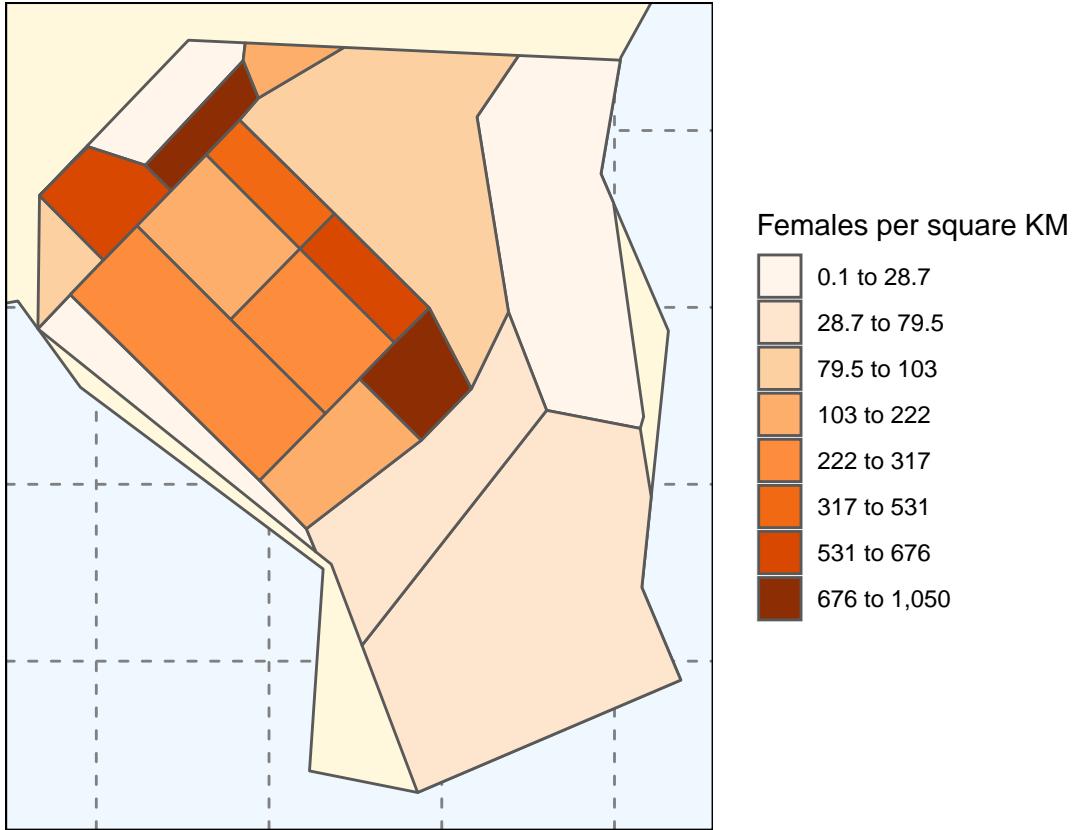
```
##  
## $output_plots_ls$Figure_2
```



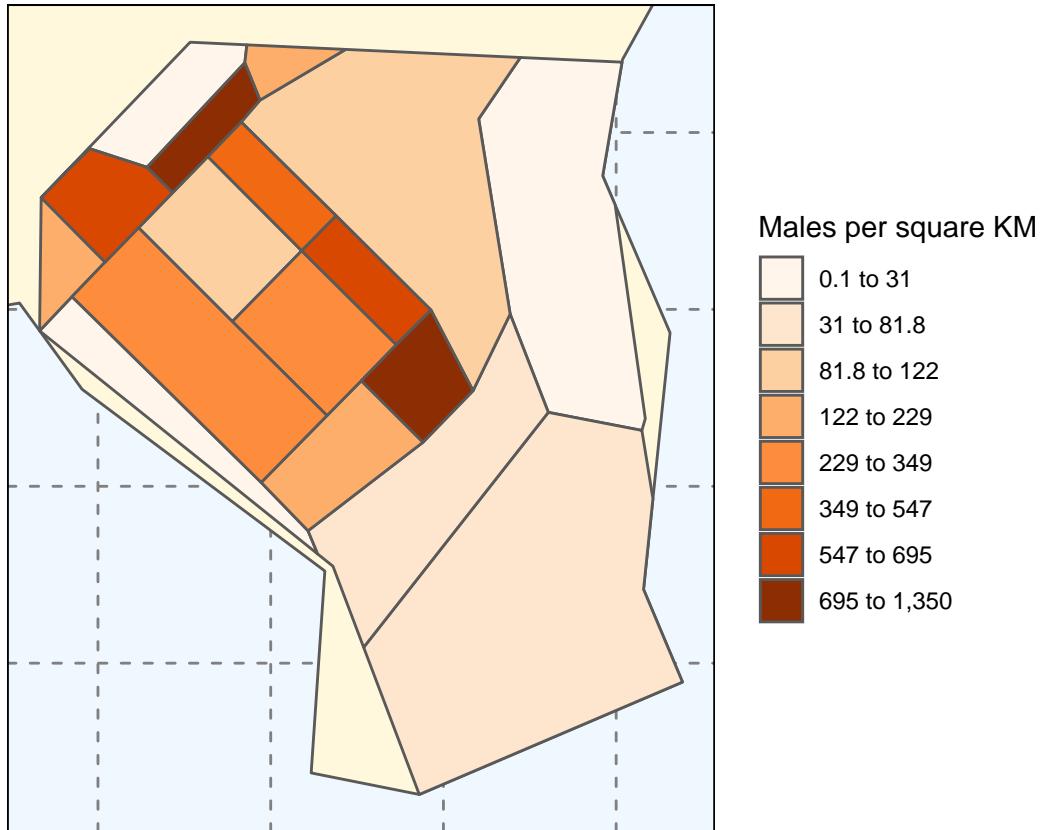
```
##  
## $output_plots_ls$Figure_3
```



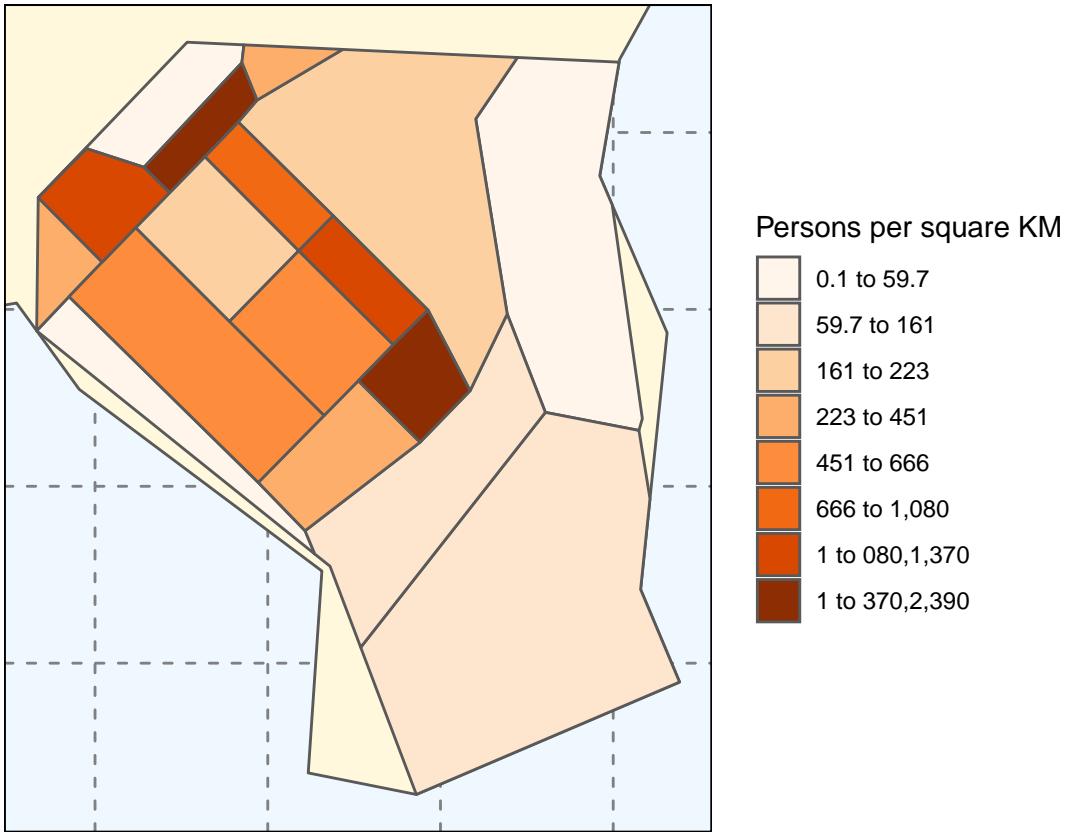
```
##  
## $output_plots_ls$Figure_4
```



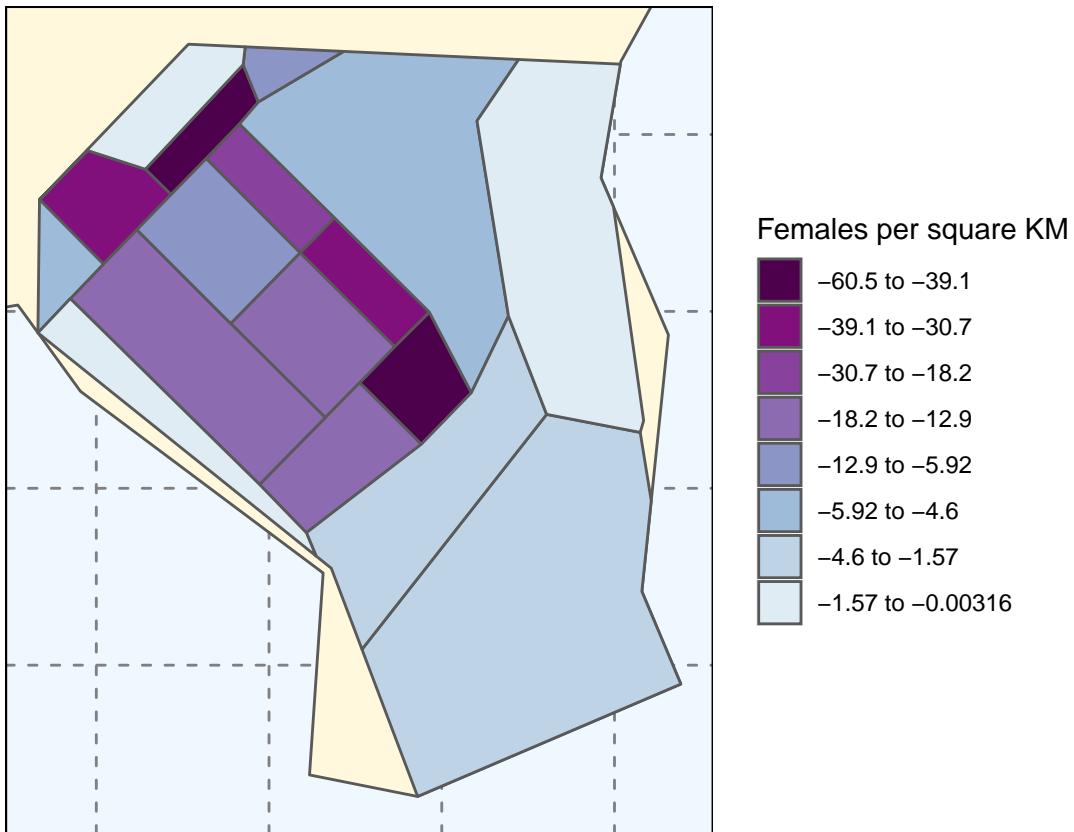
```
##  
## $output_plots_ls$Figure_5
```



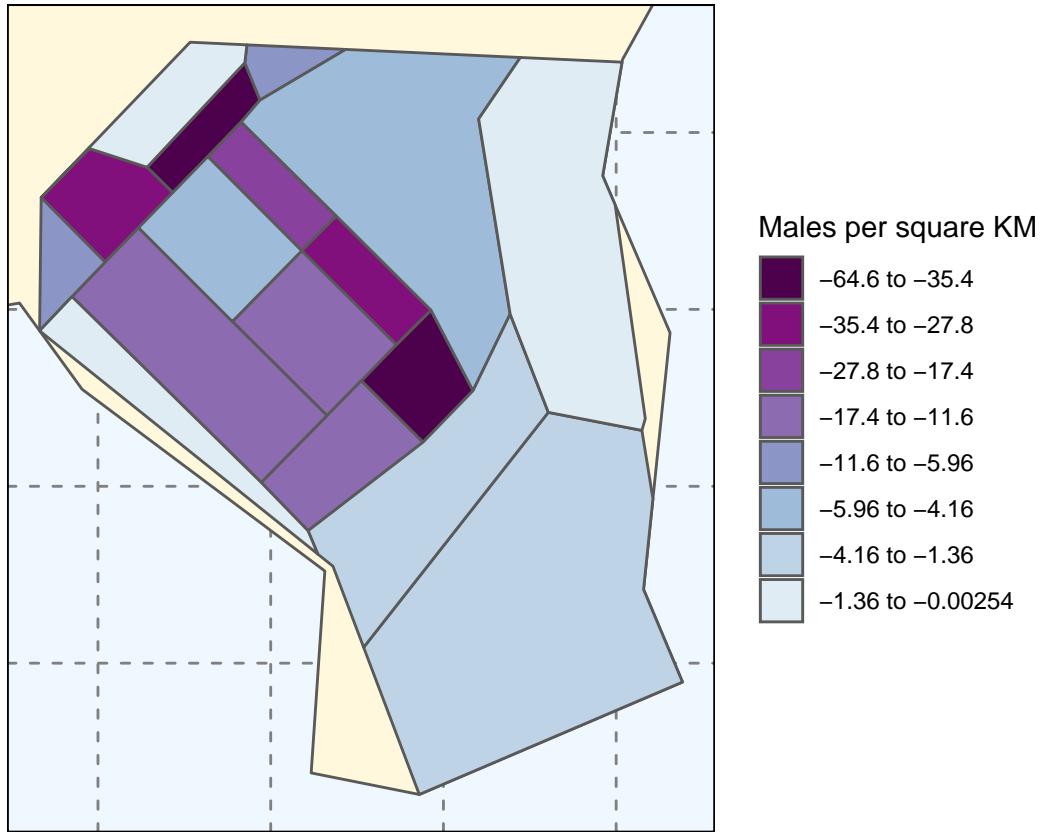
```
##  
## $output_plots_ls$Figure_6
```



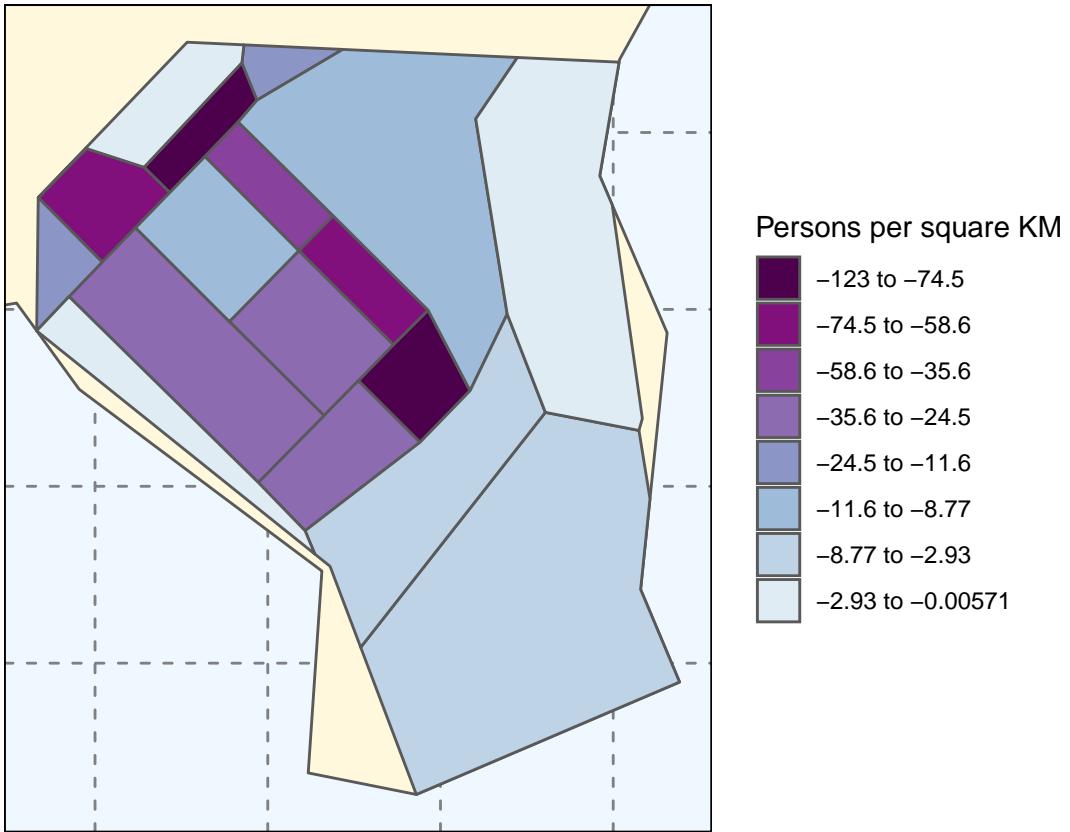
```
##  
## $output_plots_ls$Figure_7
```



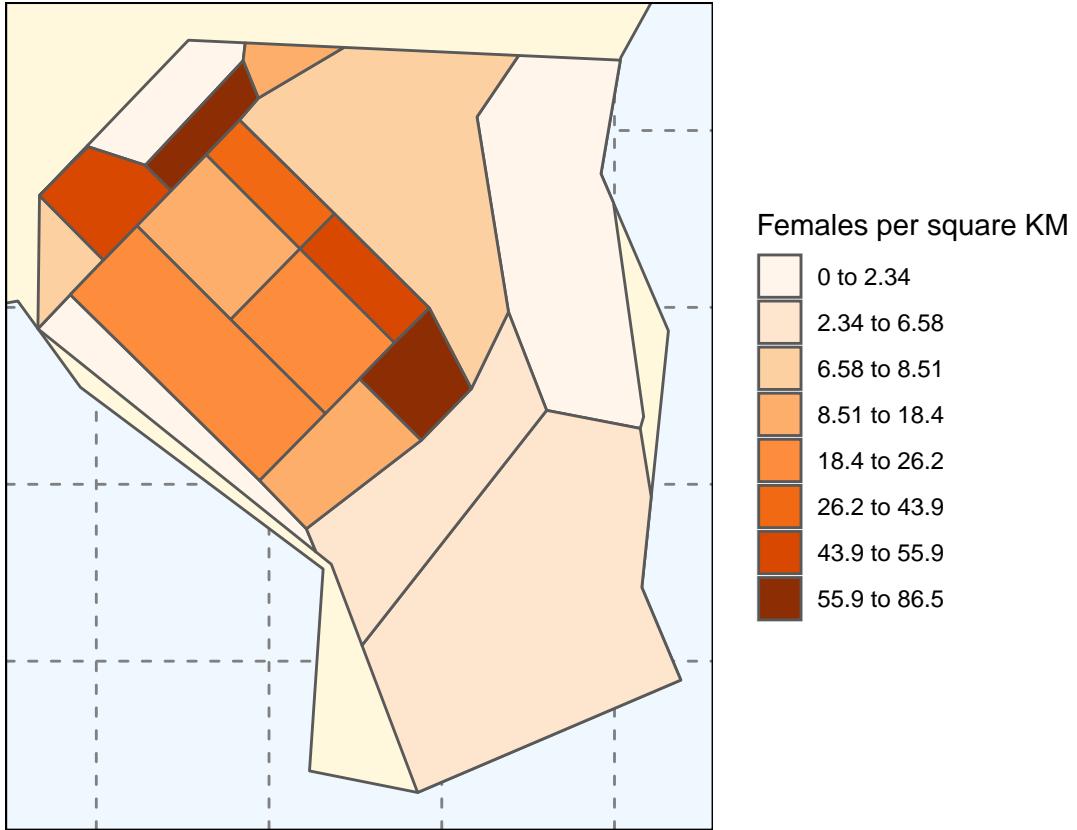
```
##  
## $output_plots_ls$Figure_8
```



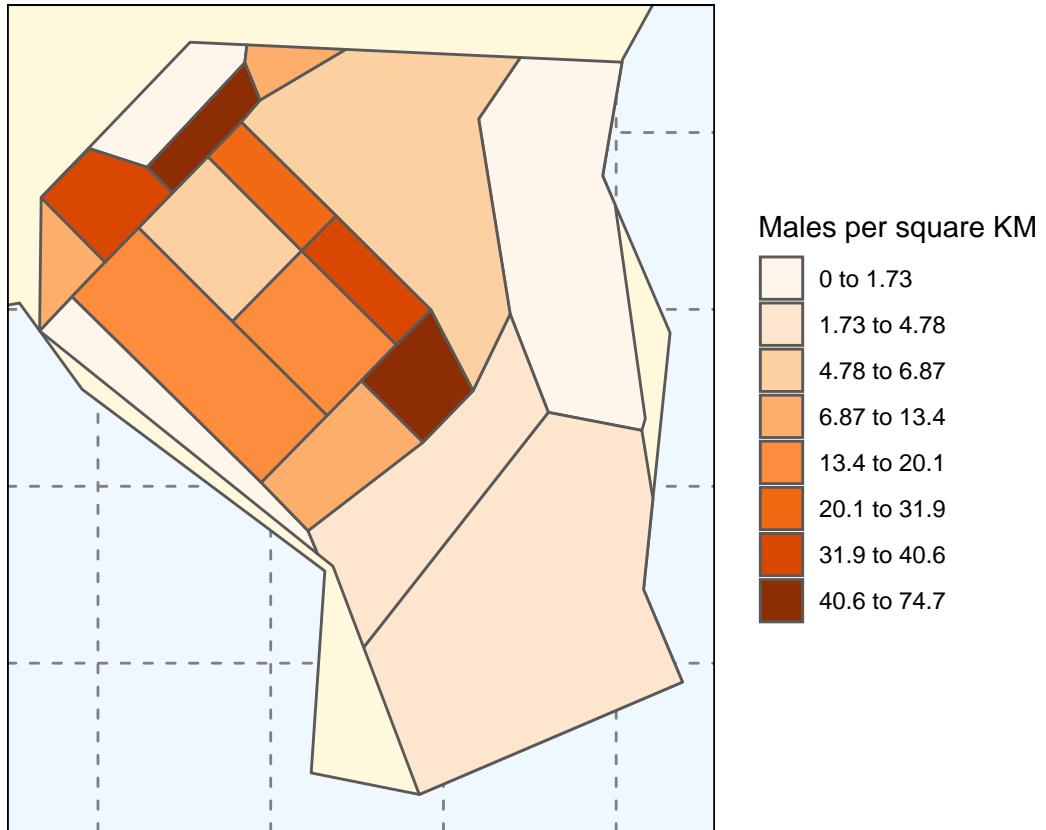
```
##  
## $output_plots_ls$Figure_9
```



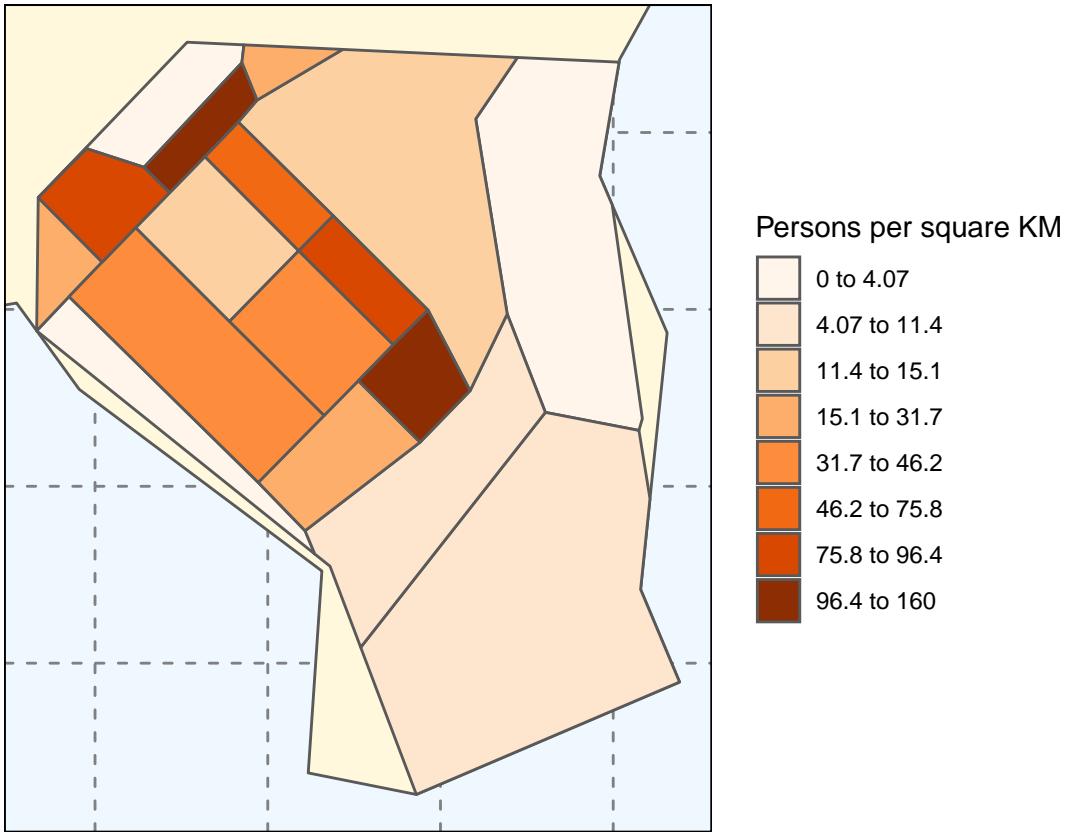
```
##  
## $output_plots_ls$Figure_10
```



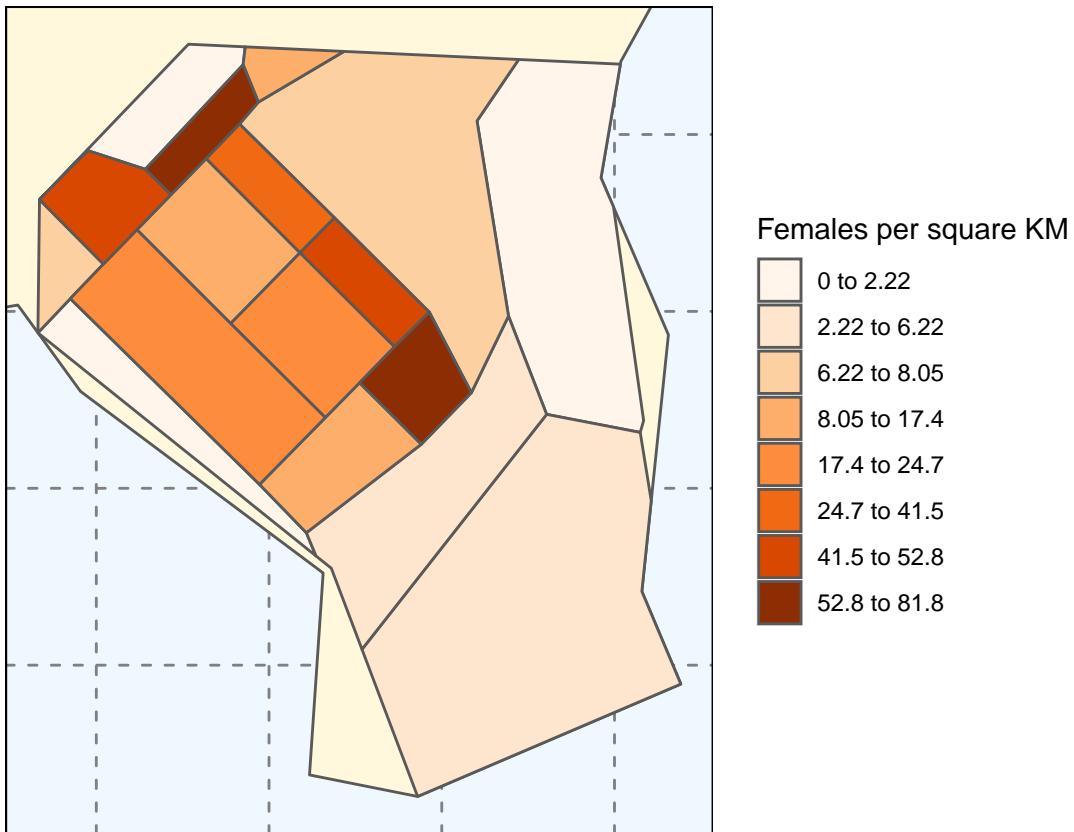
```
##  
## $output_plots_ls$Figure_11
```



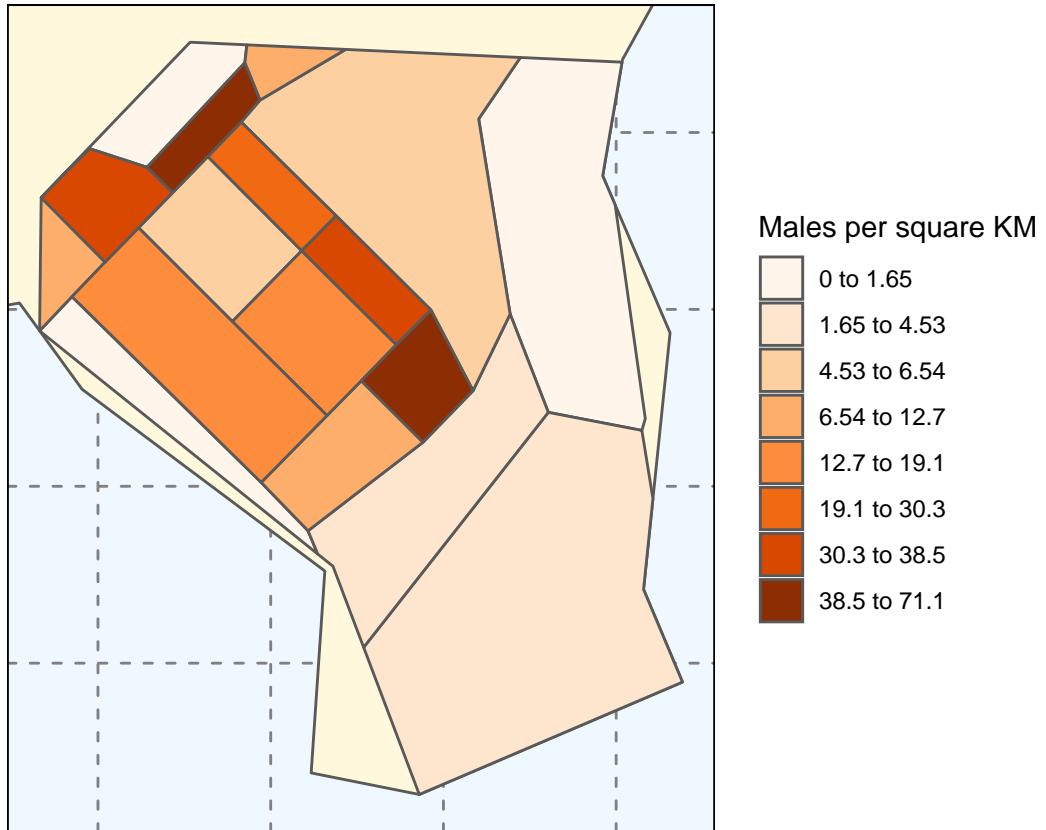
```
##  
## $output_plots_ls$Figure_12
```



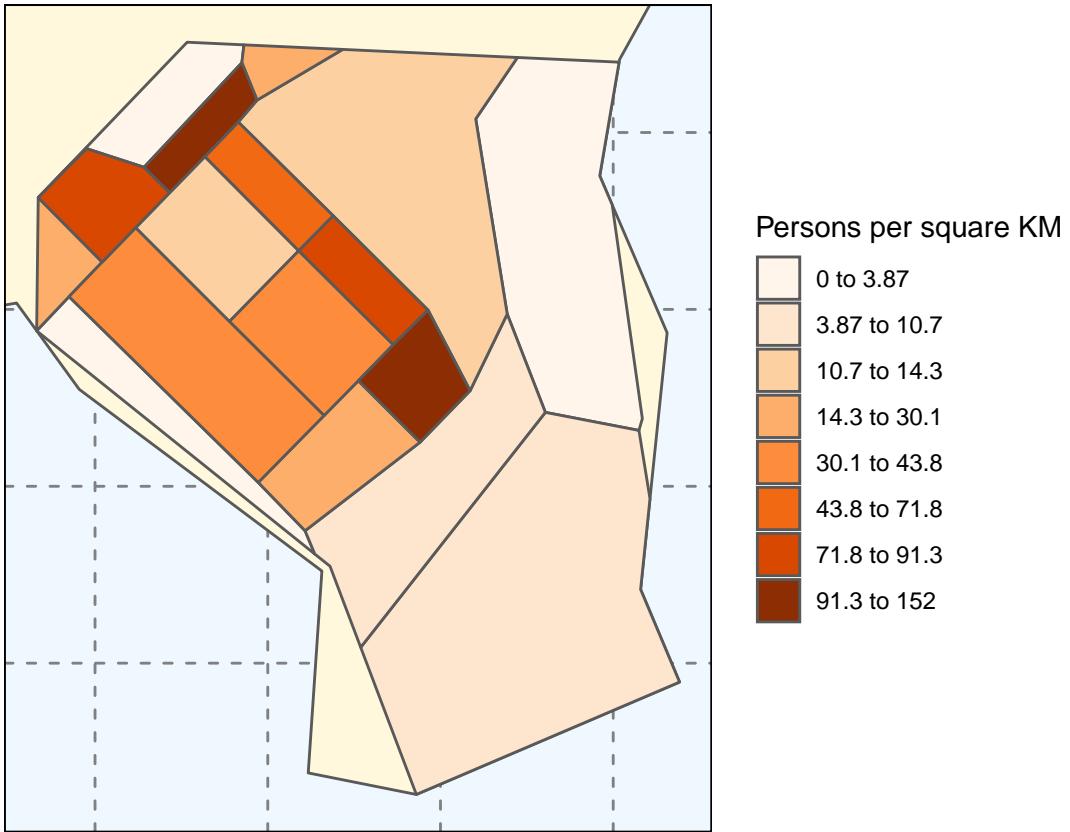
```
##  
## $output_plots_ls$Figure_13
```



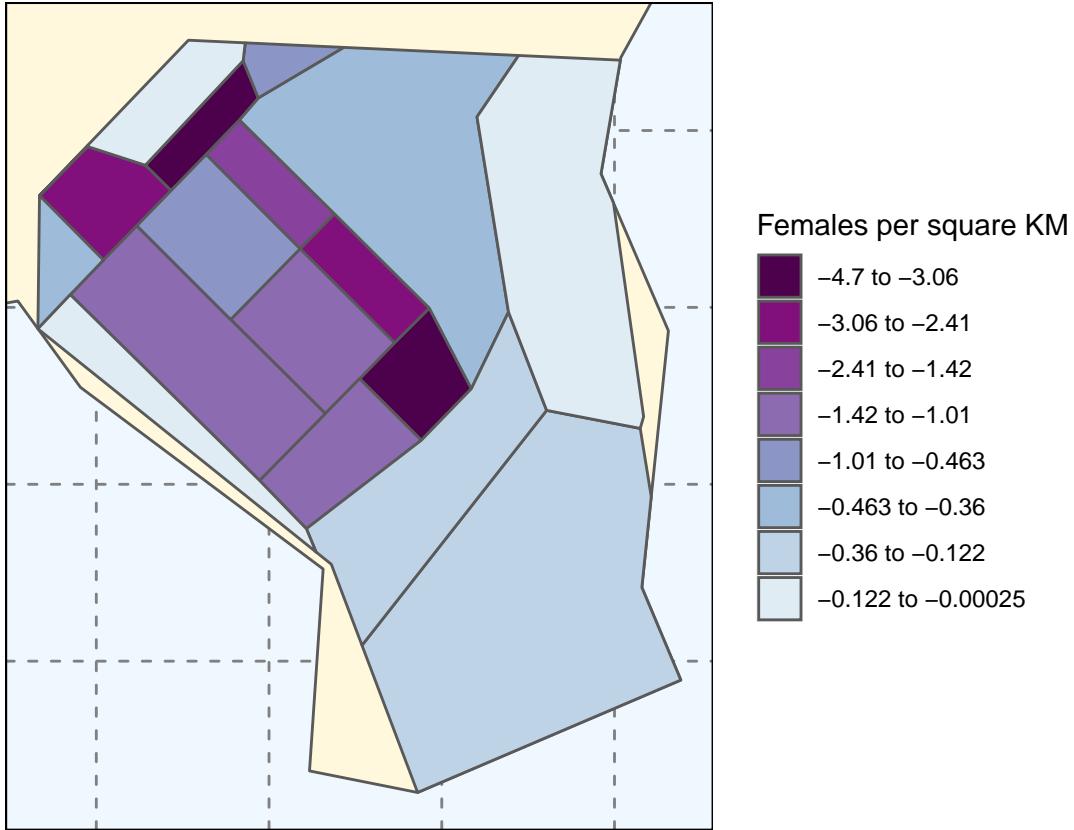
```
##  
## $output_plots_ls$Figure_14
```



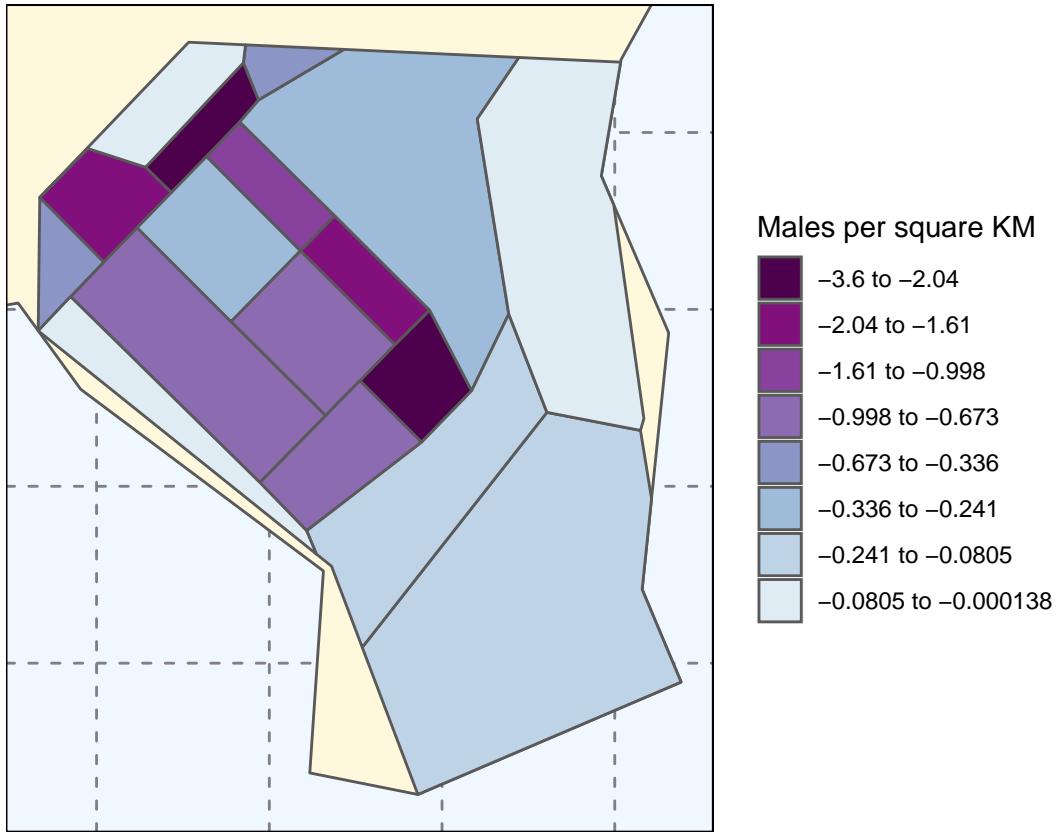
```
##  
## $output_plots_ls$Figure_15
```



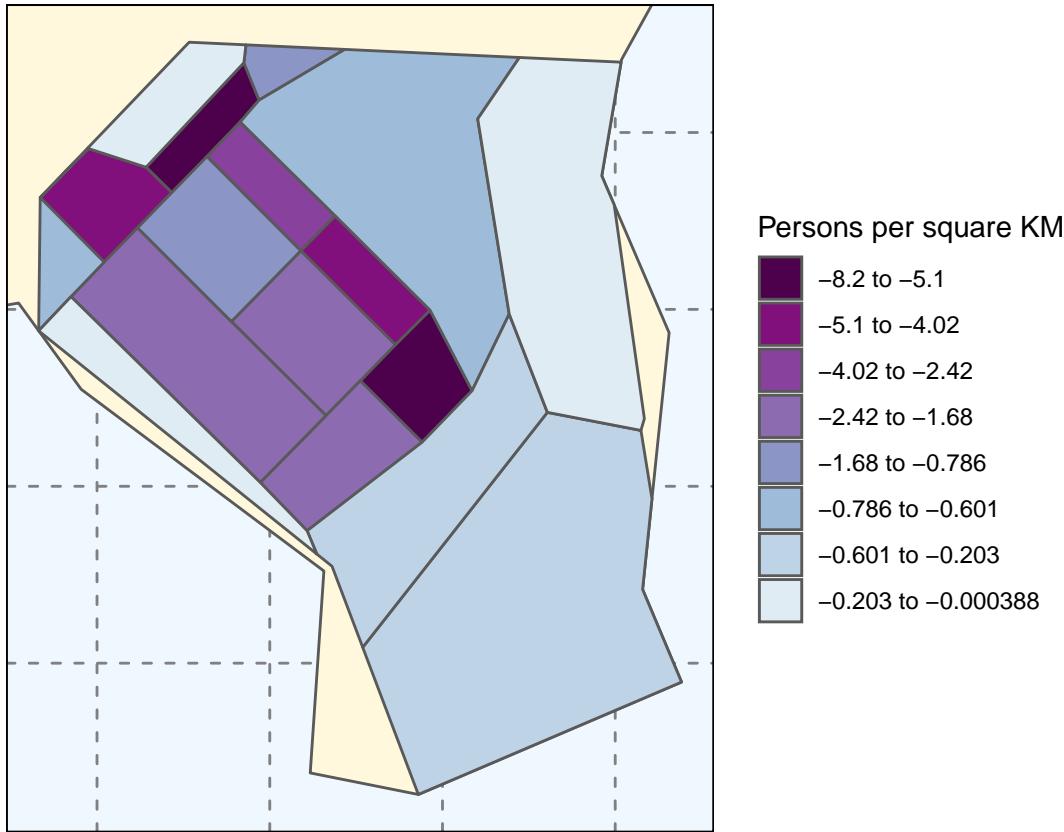
```
##  
## $output_plots_ls$Figure_16
```



```
##  
## $output_plots_ls$Figure_17
```



```
##  
## $output_plots_ls$Figure_18
```



```
##
## $output_plots_titles_ls
## $output_plots_titles_ls$Figure_1
## [1] "Predicted 01 July 2018 Resident Population of Female 16 to 25 Year Olds in 0800 Postal Area"
##
## $output_plots_titles_ls$Figure_2
## [1] "Predicted 01 July 2018 Resident Population of Male 16 to 25 Year Olds in 0800 Postal Area"
##
## $output_plots_titles_ls$Figure_3
## [1] "Predicted 01 July 2018 Total Resident Population of 16 to 25 Year Olds in 0800 Postal Area"
##
## $output_plots_titles_ls$Figure_4
## [1] "Predicted 01 March 2020 Resident Population of Female 16 to 25 Year Olds in 0800 Postal Area"
##
## $output_plots_titles_ls$Figure_5
## [1] "Predicted 01 March 2020 Resident Population of Male 16 to 25 Year Olds in 0800 Postal Area"
##
## $output_plots_titles_ls$Figure_6
## [1] "Predicted 01 March 2020 Total Resident Population of 16 to 25 Year Olds in 0800 Postal Area"
##
## $output_plots_titles_ls$Figure_7
## [1] "Predicted Change in Resident Population of Female 16 to 25 Year Olds in 0800 Postal Area Between"
##
## $output_plots_titles_ls$Figure_8
## [1] "Predicted Change in Resident Population of Male 16 to 25 Year Olds in 0800 Postal Area Between"
```

```

## 
## $output_plots_titles_ls$Figure_9
## [1] "Predicted Change in Total Resident Population of 16 to 25 Year Olds in 0800 Postal Area Between
##
## $output_plots_titles_ls$Figure_10
## [1] "Predicted 01 July 2018 Annual Prevalence of Any Affective Disorder in Female 16 to 25 Year Olds"
##
## $output_plots_titles_ls$Figure_11
## [1] "Predicted 01 July 2018 Annual Prevalence of Any Affective Disorder in Male 16 to 25 Year Olds in"
##
## $output_plots_titles_ls$Figure_12
## [1] "Predicted 01 July 2018 Total Annual Prevalence of Any Affective Disorder in 16 to 25 Year Olds in"
##
## $output_plots_titles_ls$Figure_13
## [1] "Predicted 01 March 2020 Annual Prevalence of Any Affective Disorder in Female 16 to 25 Year Olds in"
##
## $output_plots_titles_ls$Figure_14
## [1] "Predicted 01 March 2020 Annual Prevalence of Any Affective Disorder in Male 16 to 25 Year Olds in"
##
## $output_plots_titles_ls$Figure_15
## [1] "Predicted 01 March 2020 Total Annual Prevalence of Any Affective Disorder in 16 to 25 Year Olds in"
##
## $output_plots_titles_ls$Figure_16
## [1] "Predicted Change in Annual Prevalence of Any Affective Disorder in Female 16 to 25 Year Olds in"
##
## $output_plots_titles_ls$Figure_17
## [1] "Predicted Change in Annual Prevalence of Any Affective Disorder in Male 16 to 25 Year Olds in 0800"
##
## $output_plots_titles_ls$Figure_18
## [1] "Predicted Change in Total Annual Prevalence of Any Affective Disorder in 16 to 25 Year Olds in 0800"
##
## 
## $output_tables_ls
## $output_tables_ls$Table_4
## \begin{table}
## 
## \caption{\label{tab:unnamed-chunk-3}Table 4: Predicted 01 July 2018 Resident Population of Female 16 to 25 Year Olds in 0800 Postal Area Between}
## \begin{tabular}[t]{l|l|l|l|l}
## \hline
## Age & Estimate & UI Low Bound (2.5%) & UI High Bound (97.5%) \\
## \hline
## 19 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #71ca97">17</span>
## \hline
## 20 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a6e0bf">69</span>
## \hline
## 21 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a6e0bf">69</span>
## \hline
## 22 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a6e0bf">69</span>
## \hline
## 23 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a6e0bf">69</span>
## \hline
## 24 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a6e0bf">69</span>
## \hline
## 25 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #def7e9">122</span>

```

```

## \hline
## \end{tabular}
## \end{table}
##
## $output_tables_ls$Table_5
## \begin{table}
##
## \caption{\label{tab:unnamed-chunk-3}Table 5: Predicted 01 July 2018 Resident Population of Male 16 to 24 Years Old}
## \begin{tabular}[t]{l|l|l|l}
## \hline
## Age & Estimate & UI Low Bound (2.5%) & UI High Bound (97.5%)\\
## \hline
## 19 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #71ca97">11</span>
## \hline
## 20 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a0ddba">68</span>
## \hline
## 21 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a0ddba">68</span>
## \hline
## 22 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a0ddba">68</span>
## \hline
## 23 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a0ddba">68</span>
## \hline
## 24 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a0ddba">68</span>
## \hline
## 25 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #def7e9">142</span>
## \hline
## \end{tabular}
## \end{table}
##
## $output_tables_ls$Table_6
## \begin{table}
##
## \caption{\label{tab:unnamed-chunk-3}Table 6: Predicted 01 July 2018 Total Resident Population of 16 to 24 Years Old}
## \begin{tabular}[t]{l|l|l|l|l}
## \hline
## Sex & Age & Estimate & UI Low Bound (2.5%) & UI High Bound (97.5%)\\
## \hline
## Female & 19-25 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #71ca97">11</span>
## \hline
## Male & 19-25 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #71ca97">68</span>
## \hline
## \textbf{Persons} & \textbf{19-25} & \textbf{<span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #71ca97">11</span>} & \textbf{<span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a0ddba">68</span>} & \textbf{<span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #def7e9">142</span>} \\
## \hline
## \end{tabular}
## \end{table}
##
## $output_tables_ls$Table_7
## \begin{table}
##
## \caption{\label{tab:unnamed-chunk-3}Table 7: Predicted 01 March 2020 Resident Population of Female 16 to 24 Years Old}
## \begin{tabular}[t]{l|l|l|l}
## \hline
## Age & Prediction & UI Low Bound (2.5%) & UI High Bound (97.5%)\\
## \hline
## \end{tabular}
## \end{table}

```

```

## 19 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #71ca97">17<
## \hline
## 20 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a5dfbe">65<
## \hline
## 21 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a5dfbe">65<
## \hline
## 22 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a5dfbe">65<
## \hline
## 23 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a5dfbe">65<
## \hline
## 24 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a5dfbe">65<
## \hline
## 25 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #def7e9">115<
## \hline
## \end{tabular}
## \end{table}
##
## $output_tables_ls$Table_8
## \begin{table}
##
## \caption{\label{tab:unnamed-chunk-3}Table 8: Predicted 01 March 2020 Resident Population of Male 16 +
## \begin{tabular}[t]{l|l|l|l}
## \hline
## Age & Prediction & UI Low Bound (2.5%) & UI High Bound (97.5%)\\
## \hline
## 19 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #71ca97">11<
## \hline
## 20 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a0ddba">65<
## \hline
## 21 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a0ddba">65<
## \hline
## 22 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a0ddba">65<
## \hline
## 23 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a0ddba">65<
## \hline
## 24 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a0ddba">65<
## \hline
## 25 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #def7e9">135<
## \hline
## \end{tabular}
## \end{table}
##
## $output_tables_ls$Table_9
## \begin{table}
##
## \caption{\label{tab:unnamed-chunk-3}Table 9: Predicted 01 March 2020 Total Resident Population of 16 +
## \begin{tabular}[t]{l|l|l|l|l}
## \hline
## Sex & Age & Prediction & UI Low Bound (2.5%) & UI High Bound (97.5%)\\
## \hline
## Female & 19-25 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #71ca97">17<
## \hline
## Male & 19-25 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #71ca97">65<
## \hline

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## \textbf{Persons} & \textbf{19-25} & \textbf{<span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #def7e9">-0</span>} \\
## \hline
## \end{tabular}
## \end{table}
##
## $output_tables_ls$Table_10
## \begin{table}
##
## \caption{\label{tab:unnamed-chunk-3}Table 10: Predicted Change in Resident Population of Female 16 to 25 Years Old by Age Group and Prediction Type}
## \begin{tabular}{t|l|l|l|l}
## \hline
## Age & Prediction & UI Low Bound (2.5%) & UI High Bound (97.5%) \\
## \hline
## 19 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #9fddba">-4</span> & -4 & +4 & +4 \\
## \hline
## 20 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #9fddba">-4</span> & -4 & +4 & +4 \\
## \hline
## 21 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #9fddba">-4</span> & -4 & +4 & +4 \\
## \hline
## 22 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #9fddba">-4</span> & -4 & +4 & +4 \\
## \hline
## 23 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #9fddba">-4</span> & -4 & +4 & +4 \\
## \hline
## 24 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #9fddba">-4</span> & -4 & +4 & +4 \\
## \hline
## 25 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #71ca97">-7</span> & -7 & +7 & +7 \\
## \hline
## \end{tabular}
## \end{table}
##
## $output_tables_ls$Table_11
## \begin{table}
##
## \caption{\label{tab:unnamed-chunk-3}Table 11: Predicted Change in Resident Population of Male 16 to 25 Years Old by Age Group and Prediction Type}
## \begin{tabular}{t|l|l|l|l}
## \hline
## Age & Prediction & UI Low Bound (2.5%) & UI High Bound (97.5%) \\
## \hline
## 19 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #aae1c2">-3</span> & -3 & +3 & +3 \\
## \hline
## 20 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #aae1c2">-3</span> & -3 & +3 & +3 \\
## \hline
## 21 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #aae1c2">-3</span> & -3 & +3 & +3 \\
## \hline
## 22 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #aae1c2">-3</span> & -3 & +3 & +3 \\
## \hline
## 23 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #aae1c2">-3</span> & -3 & +3 & +3 \\
## \hline
## 24 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #aae1c2">-3</span> & -3 & +3 & +3 \\
## \hline
## 25 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #71ca97">-7</span> & -7 & +7 & +7 \\
## \hline
## \end{tabular}
## \end{table}

```

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##
## $output_tables_ls$Table_12
## \begin{table}
##
## \caption{\label{tab:unnamed-chunk-3}Table 12: Predicted Change in Total Resident Population of 16 to 64 Years Old by Sex, Age & Prediction}
## \begin{tabular}[t]{l|l|l|l|l}
## \hline
## Sex & Age & Prediction & UI Low Bound (2.5%) & UI High Bound (97.5%)\\
## \hline
## Female & 19-25 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #71ca97">1.38</span> & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a7e0c0">5.80</span>
## \hline
## Male & 19-25 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a3debd">5.55</span> & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #def7e9">10.10</span>
## \hline
## \textbf{Persons} & \textbf{19-25} & \textbf{<span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a7e0c0">5.80</span>} & \textbf{<span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #def7e9">10.10</span>} & \textbf{<span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #71ca97">1.38</span>} \\
## \hline
## \end{tabular}
## \end{table}
##
## $output_tables_ls$Table_13
## \begin{table}
##
## \caption{\label{tab:unnamed-chunk-3}Table 13: Predicted 01 July 2018 Annual Prevalence of Any Affecting Condition by Age & Estimate}
## \begin{tabular}[t]{l|l|l|l|l}
## \hline
## Age & Estimate & UI Low Bound (2.5%) & UI High Bound (97.5%)\\
## \hline
## 19 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #71ca97">1.38</span> & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a7e0c0">5.80</span>
## \hline
## 20 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a3debd">5.55</span> & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #def7e9">10.10</span>
## \hline
## 21 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a3debd">5.55</span> & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #def7e9">10.10</span>
## \hline
## 22 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #aae1c2">6.00</span> & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #def7e9">10.10</span>
## \hline
## 23 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a5dfbe">5.60</span> & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #def7e9">10.10</span>
## \hline
## 24 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #aae1c2">6.00</span> & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #def7e9">10.10</span>
## \hline
## 25 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #def7e9">10.10</span> & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #71ca97">1.38</span>
## \hline
## \end{tabular}
## \end{table}
##
## $output_tables_ls$Table_14
## \begin{table}
##
## \caption{\label{tab:unnamed-chunk-3}Table 14: Predicted 01 July 2018 Annual Prevalence of Any Affecting Condition by Age & Estimate}
## \begin{tabular}[t]{l|l|l|l|l}
## \hline
## Age & Estimate & UI Low Bound (2.5%) & UI High Bound (97.5%)\\
## \hline
## 19 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #71ca97">0.48</span> & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a7e0c0">3.20</span>
## \hline
## 20 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #8bd5ab">3.20</span> & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #def7e9">10.10</span>
## \hline
## \end{tabular}
## \end{table}

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## \hline
## 21 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #8dd5ac">3.4
## \hline
## 22 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #87d3a7">2.7
## \hline
## 23 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #86d3a7">2.7
## \hline
## 24 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #8bd4aa">3.1
## \hline
## 25 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #def7e9">11.4
## \hline
## \end{tabular}
## \end{table}
##
## $output_tables_ls$Table_15
## \begin{table}
##
## \caption{\label{tab:unnamed-chunk-3}Table 15: Predicted 01 July 2018 Total Annual Prevalence of Any Affecting Condition by Sex, Age, and Estimate}
## \begin{tabular}{l|l|l|l|l|l}
## \hline
## Sex & Age & Estimate & UI Low Bound (2.5%) & UI High Bound (97.5%)\\
## \hline
## Female & 19-25 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #71ca97">1.3
## \hline
## Male & 19-25 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a7e0c0">5.5
## \hline
## \textbf{Persons} & \textbf{19-25} & \textbf{<span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a3debc">5.1}
## \hline
## \end{tabular}
## \end{table}
##
## $output_tables_ls$Table_16
## \begin{table}
##
## \caption{\label{tab:unnamed-chunk-3}Table 16: Predicted 01 March 2020 Annual Prevalence of Any Affecting Condition by Age, Prediction, and Estimate}
## \begin{tabular}{l|l|l|l}
## \hline
## Age & Prediction & UI Low Bound (2.5%) & UI High Bound (97.5%)\\
## \hline
## 19 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #71ca97">1.3
## \hline
## 20 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a7e0c0">5.5
## \hline
## 21 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a3debc">5.1
## \hline
## 22 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #aae1c1">5.6
## \hline
## 23 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #a5dfbe">5.3
## \hline
## 24 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #aae1c2">5.7
## \hline
## 25 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #def7e9">9.6
## \hline
## \end{tabular}

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## \end{table}
##
## $output_tables_ls$Table_17
## \begin{table}
##
## \caption{\label{tab:unnamed-chunk-3}Table 17: Predicted 01 March 2020 Annual Prevalence of Any Affective Disorders by Age & Prediction & UI}
## \begin{tabular}[t]{l|l|l|l}
## \hline
## Age & Prediction & UI Low Bound (2.5%) & UI High Bound (97.5%) \\
## \hline
## 19 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #71ca97">0.58% </span>
## \hline
## 20 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #8bd5ab">3.01% </span>
## \hline
## 21 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #8ed5ac">3.21% </span>
## \hline
## 22 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #86d3a7">2.54% </span>
## \hline
## 23 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #86d3a7">2.54% </span>
## \hline
## 24 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #8ad4aa">2.91% </span>
## \hline
## 25 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #def7e9">10.84% </span>
## \hline
## \end{tabular}
## \end{table}
##
## $output_tables_ls$Table_18
## \begin{table}
##
## \caption{\label{tab:unnamed-chunk-3}Table 18: Predicted 01 March 2020 Total Annual Prevalence of Any Affective Disorders by Sex, Age & Prediction & UI}
## \begin{tabular}[t]{l|l|l|l}
## \hline
## Sex & Age & Prediction & UI Low Bound (2.5%) & UI High Bound (97.5%) \\
## \hline
## Female & 19-25 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #71ca97">0.58% </span>
## \hline
## Male & 19-25 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #71ca97">0.58% </span>
## \hline
## \textbf{Persons} & \textbf{19-25} & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #71ca97">0.58% </span>
## \hline
## \end{tabular}
## \end{table}
##
## $output_tables_ls$Table_19
## \begin{table}
##
## \caption{\label{tab:unnamed-chunk-3}Table 19: Predicted Change in Annual Prevalence of Any Affective Disorders by Age & Prediction & UI}
## \begin{tabular}[t]{l|l|l|l}
## \hline
## Age & Prediction & UI Low Bound (2.5%) & UI High Bound (97.5%) \\
## \hline
## 19 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #def7e9">-0.01% </span>
## \hline
## \end{tabular}
## \end{table}

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## 20 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #99dab5">-0.4
## \hline
## 21 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #9cdcb7">-0.3
## \hline
## 22 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #9bdbb6">-0.2
## \hline
## 23 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #9ddcb8">-0.1
## \hline
## 24 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #99dab5">-0.05
## \hline
## 25 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #71ca97">-0.02
## \hline
## \end{tabular}
## \end{table}
##
## $output_tables_ls$Table_20
## \begin{table}
##
## \caption{\label{tab:unnamed-chunk-3}Table 20: Predicted Change in Annual Prevalence of Any Affective Disorder by Age & Prediction & UI Low Bound (2.5%) & UI High Bound (97.5%)}
## \begin{tabular}{t|l|l|l|l}
## \hline
## Age & Prediction & UI Low Bound (2.5%) & UI High Bound (97.5%)\\
## \hline
## 19 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #def7e9">0.05
## \hline
## 20 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #c0ead2">-0.05
## \hline
## 21 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #bfead2">-0.1
## \hline
## 22 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #c5ecd6">-0.15
## \hline
## 23 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #c4ecd5">-0.2
## \hline
## 24 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #c1ebd3">-0.25
## \hline
## 25 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #71ca97">-0.3
## \hline
## \end{tabular}
## \end{table}
##
## $output_tables_ls$Table_21
## \begin{table}
##
## \caption{\label{tab:unnamed-chunk-3}Table 21: Predicted Change in Total Annual Prevalence of Any Affective Disorder by Sex & Age & Prediction & UI Low Bound (2.5%) & UI High Bound (97.5%)}
## \begin{tabular}{t|l|l|l|l|l}
## \hline
## Sex & Age & Prediction & UI Low Bound (2.5%) & UI High Bound (97.5%)\\
## \hline
## Female & 19-25 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #d9ead3">0.05
## \hline
## Male & 19-25 & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #d9ead3">0.05
## \hline
## \textbf{Persons} & \textbf{19-25} & <span style="display: block; padding: 0 4px; border-radius: 4px; background-color: #d9ead3">0.05
## \hline
## \end{tabular}
## \end{table}

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## \end{tabular}
## \end{table}
##
##
## $pa_type_chr
## [1] "HSS"
##
## $rendered_by_shiny_lgl
## [1] FALSE
##
## $sim_data_r4
## An object of class "ready4_sim_data"
## Slot "st_envir":
## An object of class "ready4_env"
## Slot "st_data":
## $input_dynamic_sp_pars
## Simple feature collection with 542 features and 56 fields
## geometry type: MULTIPOLYGON
## dimension: XY
## bbox: xmin: 112.9211 ymin: -43.65856 xmax: 159.1054 ymax: -9.219937
## epsg (SRID): 4283
## proj4string: +proj=longlat +ellps=GRS80 +towgs84=0,0,0,0,0,0,0 +no_defs
## First 10 features:
##      XX1_NAME16 LGA_CODE16 LGA_NAME16                      STE_NAME16 LGA_CODE11
## 1  sa3_2016_sf.10    <NA>        <NA> Australian Capital Territory    <NA>
## 2  sa3_2016_sf.11    <NA>        <NA> Australian Capital Territory    <NA>
## 3  sa3_2016_sf.12    <NA>        <NA> Australian Capital Territory    <NA>
## 4  sa3_2016_sf.13    <NA>        <NA> Australian Capital Territory    <NA>
## 5  sa3_2016_sf.14    <NA>        <NA> Australian Capital Territory    <NA>
## 6  sa3_2016_sf.15    <NA>        <NA> Australian Capital Territory    <NA>
## 7  sa3_2016_sf.16    <NA>        <NA> Australian Capital Territory    <NA>
## 8  sa3_2016_sf.17    <NA>        <NA> Australian Capital Territory    <NA>
## 9  sa3_2016_sf.18    <NA>        <NA> Australian Capital Territory    <NA>
## 10 sa3_2016_sf.19    <NA>        <NA> Australian Capital Territory    <NA>
##      LGA_NAME11 SA3_CODE16          SA3_NAME16 y2016.Females.0.4 y2016.Females.5.9
## 1      <NA>    80101           Belconnen            3330        2980
## 2      <NA>    80103       Canberra East             28          13
## 3      <NA>    80104        Gungahlin            3335        2821
## 4      <NA>    80105     North Canberra            1188        1121
## 5      <NA>    80106      South Canberra            650         631
## 6      <NA>    80107    Tuggeranong            2938        2799
## 7      <NA>    80108      Weston Creek             787         756
## 8      <NA>    80109      Woden Valley            1005        1102
## 9      <NA>    80110      Molonglo                217         155
## 10     <NA>    80111 Urriarra - Namadgi            10          27
##      y2016.Females.10.14 y2016.Females.15.19 y2016.Females.20.24
## 1      2505        2725            4174
## 2       14          20              26
## 3      2328        2173            2763
## 4      1004        2115            3955
## 5       709          709            773
## 6      2501        2985            2804
## 7       687          617            499
## 8      948          945            1005

```

|                        |                     |                     |                   |            |
|------------------------|---------------------|---------------------|-------------------|------------|
| ## 9                   | 101                 | 86                  | 219               |            |
| ## 10                  | 17                  | 24                  | 20                |            |
| ## y2016.Females.25.29 | y2016.Males.0.4     | y2016.Males.5.9     | y2016.Males.10.14 |            |
| ## 1                   | 4098                | 3655                | 3400              | 2693       |
| ## 2                   | 56                  | 23                  | 6                 | 9          |
| ## 3                   | 3485                | 3711                | 3047              | 2364       |
| ## 4                   | 3244                | 1257                | 1163              | 986        |
| ## 5                   | 1392                | 704                 | 662               | 715        |
| ## 6                   | 2893                | 3115                | 2928              | 2742       |
| ## 7                   | 580                 | 835                 | 883               | 765        |
| ## 8                   | 1229                | 1024                | 1217              | 1033       |
| ## 9                   | 422                 | 257                 | 168               | 103        |
| ## 10                  | 25                  | 37                  | 41                | 14         |
| ## y2016.Males.15.19   | y2016.Males.20.24   | y2016.Males.25.29   | y2021.Females.0.4 |            |
| ## 1                   | 2872                | 4409                | 4102              | 3505.52300 |
| ## 2                   | 43                  | 110                 | 123               | 23.65069   |
| ## 3                   | 2207                | 2604                | 3260              | 3519.03292 |
| ## 4                   | 2014                | 4158                | 3430              | 1187.95570 |
| ## 5                   | 773                 | 778                 | 1247              | 671.88034  |
| ## 6                   | 3039                | 3045                | 2976              | 2810.93473 |
| ## 7                   | 618                 | 521                 | 540               | 937.69650  |
| ## 8                   | 1071                | 1036                | 1173              | 1188.68212 |
| ## 9                   | 75                  | 180                 | 349               | 682.67104  |
| ## 10                  | 25                  | 13                  | 30                | 27.97297   |
| ## y2021.Females.5.9   | y2021.Females.10.14 | y2021.Females.15.19 |                   |            |
| ## 1                   | 3316.85724          | 2963.43675          | 2938.63845        |            |
| ## 2                   | 33.19997            | 23.62150            | 18.75616          |            |
| ## 3                   | 3234.48669          | 2794.32467          | 2255.05567        |            |
| ## 4                   | 1175.92024          | 1271.12024          | 1927.81131        |            |
| ## 5                   | 758.16908           | 861.41500           | 936.75825         |            |
| ## 6                   | 2870.76894          | 2748.50270          | 2523.17734        |            |
| ## 7                   | 864.41156           | 705.66447           | 615.06228         |            |
| ## 8                   | 1318.37529          | 1225.26963          | 1063.24190        |            |
| ## 9                   | 513.12046           | 373.06441           | 268.99366         |            |
| ## 10                  | 11.69052            | 22.58062            | 14.50498          |            |
| ## y2021.Females.20.24 | y2021.Females.25.29 | y2021.Males.0.4     | y2021.Males.5.9   |            |
| ## 1                   | 4225.54540          | 4256.00315          | 3628.72967        | 3518.24811 |
| ## 2                   | 16.21629            | 19.39632            | 32.60542          | 36.70651   |
| ## 3                   | 2617.53402          | 3368.14731          | 3717.95848        | 3421.06887 |
| ## 4                   | 4148.77862          | 3737.78354          | 1289.14073        | 1263.96904 |
| ## 5                   | 799.57397           | 1415.98507          | 731.37956         | 799.65081  |
| ## 6                   | 2822.60323          | 2782.21742          | 2916.55123        | 3056.69574 |
| ## 7                   | 517.03541           | 562.81422           | 969.65608         | 899.58463  |
| ## 8                   | 1178.27055          | 1418.78907          | 1275.03505        | 1367.40348 |
| ## 9                   | 401.50607           | 714.87030           | 722.18409         | 549.26657  |
| ## 10                  | 15.93642            | 22.99361            | 30.75969          | 25.40623   |
| ## y2021.Males.10.14   | y2021.Males.15.19   | y2021.Males.20.24   | y2021.Males.25.29 |            |
| ## 1                   | 3237.27760          | 3103.91448          | 4384.11503        | 4406.76976 |
| ## 2                   | 17.86090            | 26.06721            | 87.51106          | 106.63465  |
| ## 3                   | 2999.57601          | 2449.31653          | 2744.97482        | 3305.86699 |
| ## 4                   | 1343.79075          | 1949.02270          | 4249.54926        | 3860.36850 |
| ## 5                   | 859.21410           | 963.91511           | 884.76154         | 1313.97770 |
| ## 6                   | 2837.02348          | 2745.05786          | 2893.54676        | 2805.53999 |
| ## 7                   | 812.54386           | 637.51020           | 522.38018         | 559.16561  |

|       |                     |                     |                     |                     |
|-------|---------------------|---------------------|---------------------|---------------------|
| ## 8  | 1353.21185          | 1135.31137          | 1215.84172          | 1394.10933          |
| ## 9  | 403.32145           | 285.67891           | 414.45963           | 717.93664           |
| ## 10 | 31.17999            | 16.20563            | 16.86000            | 24.63083            |
| ##    | y2026.Females.0.4   | y2026.Females.5.9   | y2026.Females.10.14 | y2026.Females.15.19 |
| ## 1  | 3898.31082          | 3619.18719          | 3407.736051         | 3466.42269          |
| ## 2  | 14.62373            | 22.90651            | 25.264793           | 26.74692            |
| ## 3  | 3412.63800          | 3245.69416          | 3077.145010         | 2715.79235          |
| ## 4  | 1313.93780          | 1299.08412          | 1436.847623         | 2383.86881          |
| ## 5  | 643.71619           | 713.77050           | 895.084238          | 1000.92334          |
| ## 6  | 2643.68069          | 2638.58110          | 2705.146291         | 2675.22862          |
| ## 7  | 952.07351           | 910.70309           | 785.589325          | 667.91592           |
| ## 8  | 1301.57337          | 1370.55058          | 1343.500272         | 1240.49480          |
| ## 9  | 1296.65607          | 1064.65409          | 813.088106          | 584.44482           |
| ## 10 | 27.41029            | 21.22140            | 9.700444            | 18.90253            |
| ##    | y2026.Females.20.24 | y2026.Females.25.29 | y2026.Males.0.4     | y2026.Males.5.9     |
| ## 1  | 4279.02369          | 4365.04000          | 4014.74617          | 3705.80513          |
| ## 2  | 11.62439            | 19.33800            | 27.89505            | 40.46689            |
| ## 3  | 2559.42752          | 3072.27277          | 3577.08530          | 3345.07425          |
| ## 4  | 4484.53547          | 3933.37445          | 1410.25700          | 1381.30541          |
| ## 5  | 795.33425           | 1254.44418          | 709.79588           | 742.89114           |
| ## 6  | 2476.96378          | 2567.14181          | 2751.41599          | 2760.52291          |
| ## 7  | 510.33544           | 535.29276           | 990.01414           | 944.97837           |
| ## 8  | 1290.21007          | 1600.40285          | 1380.37471          | 1436.93655          |
| ## 9  | 649.70997           | 1072.53980          | 1368.80511          | 1112.52903          |
| ## 10 | 13.12178            | 22.37545            | 33.61065            | 24.49032            |
| ##    | y2026.Males.10.14   | y2026.Males.15.19   | y2026.Males.20.24   | y2026.Males.25.29   |
| ## 1  | 3573.43297          | 3712.11778          | 4556.32990          | 4569.10050          |
| ## 2  | 32.44234            | 33.10548            | 81.30948            | 96.78738            |
| ## 3  | 3234.28640          | 2952.50064          | 2753.71485          | 3092.36762          |
| ## 4  | 1523.91559          | 2536.09219          | 4696.23363          | 4154.74385          |
| ## 5  | 897.58872           | 1038.31155          | 871.69655           | 1235.41513          |
| ## 6  | 2796.78638          | 2806.95076          | 2635.13774          | 2603.88506          |
| ## 7  | 839.08564           | 724.58420           | 534.65554           | 541.48057           |
| ## 8  | 1438.24799          | 1347.31261          | 1331.61167          | 1611.99309          |
| ## 9  | 857.20931           | 628.22150           | 689.38908           | 1104.60237          |
| ## 10 | 27.00467            | 23.80328            | 13.92156            | 21.62442            |
| ##    | y2031.Females.0.4   | y2031.Females.5.9   | y2031.Females.10.14 | y2031.Females.15.19 |
| ## 1  | 4180.34514          | 4002.02184          | 3696.94861          | 3833.13390          |
| ## 2  | 14.40847            | 15.24368            | 12.28128            | 25.80842            |
| ## 3  | 3101.80911          | 3047.81426          | 2995.62956          | 2905.54624          |
| ## 4  | 1393.86580          | 1419.96265          | 1558.72633          | 2684.74735          |
| ## 5  | 637.74915           | 716.10578           | 859.89227           | 1027.14200          |
| ## 6  | 2579.13944          | 2581.75593          | 2563.07224          | 2683.30040          |
| ## 7  | 936.92002           | 936.65132           | 808.31171           | 724.63292           |
| ## 8  | 1375.79864          | 1458.10180          | 1375.19643          | 1310.54416          |
| ## 9  | 1746.85198          | 1614.71509          | 1335.60940          | 984.20433           |
| ## 10 | 25.85759            | 22.01540            | 17.27294            | 8.69237             |
| ##    | y2031.Females.20.24 | y2031.Females.25.29 | y2031.Males.0.4     | y2031.Males.5.9     |
| ## 1  | 4852.69198          | 4479.40555          | 4316.71189          | 4077.87097          |
| ## 2  | 11.24788            | 15.19411            | 27.31768            | 35.18728            |
| ## 3  | 2754.52137          | 2805.68142          | 3245.97091          | 3128.83322          |
| ## 4  | 5293.79972          | 4179.61824          | 1503.33004          | 1513.21090          |
| ## 5  | 839.25586           | 1252.61317          | 707.84094           | 743.53198           |
| ## 6  | 2614.61052          | 2399.70484          | 2688.08484          | 2713.73468          |

```

## 7      545.39698      509.37353      978.08374      964.73424
## 8      1497.34922     1748.79233     1446.65841     1521.55686
## 9      991.36400     1311.76779     1845.58890     1679.74127
## 10     13.61525      18.94545      31.41266      25.59861
##    y2031.Males.10.14 y2031.Males.15.19 y2031.Males.20.24 y2031.Males.25.29
## 1      3768.56039     4025.16948     5198.11652     4746.25041
## 2      32.27755       40.69935       81.99626       94.19309
## 3      3081.78682     3090.31348     2993.78359     2861.90273
## 4      1621.81298     2808.49335     5572.83802     4489.49529
## 5      861.85504      1064.70637     933.23040      1243.25506
## 6      2624.65438     2823.03056     2751.89313     2478.36926
## 7      867.91284      741.23970      587.36764      535.15484
## 8      1464.29028     1421.40844     1567.60192     1779.48358
## 9      1381.22890     1041.07760     1064.48161     1366.70166
## 10     26.62083       19.86169       15.69091       18.19409
##
##          geometry
## 1  MULTIPOLYGON (((149.0212 -3...
## 2  MULTIPOLYGON (((149.1741 -3...
## 3  MULTIPOLYGON (((149.2007 -3...
## 4  MULTIPOLYGON (((149.1251 -3...
## 5  MULTIPOLYGON (((149.083 -35...
## 6  MULTIPOLYGON (((149.1185 -3...
## 7  MULTIPOLYGON (((149.0304 -3...
## 8  MULTIPOLYGON (((149.083 -35...
## 9  MULTIPOLYGON (((149.0212 -3...
## 10 MULTIPOLYGON (((148.9617 -3...
##
## $profiled_sf
## Simple feature collection with 19 features and 60 fields
## geometry type:  POLYGON
## dimension:      XY
## bbox:            xmin: 130.8333 ymin: -12.47371 xmax: 130.8519 ymax: -12.45245
## epsg (SRID):    4283
## proj4string:    +proj=longlat +ellps=GRS80 +towgs84=0,0,0,0,0,0,0 +no_defs
## First 10 features:
##          pop_sp_unit_id XX1_NAME16 POA_CODE POA_NAME      SQKM
## 1  sa3_2016_sf.1_0800_sa2_1 sa3_2016_sf.1      0800      0800 3.123064
## 2  sa3_2016_sf.1_0800_sa2_10 sa3_2016_sf.1     0800      0800 3.123064
## 3  sa3_2016_sf.1_0800_sa2_11 sa3_2016_sf.1     0800      0800 3.123064
## 4  sa3_2016_sf.1_0800_sa2_12 sa3_2016_sf.1     0800      0800 3.123064
## 5  sa3_2016_sf.1_0800_sa2_13 sa3_2016_sf.1     0800      0800 3.123064
## 6  sa3_2016_sf.1_0800_sa2_14 sa3_2016_sf.1     0800      0800 3.123064
## 7  sa3_2016_sf.1_0800_sa2_15 sa3_2016_sf.1     0800      0800 3.123064
## 8  sa3_2016_sf.1_0800_sa2_16 sa3_2016_sf.1     0800      0800 3.123064
## 9  sa3_2016_sf.1_0800_sa2_17 sa3_2016_sf.1     0800      0800 3.123064
## 10 sa3_2016_sf.1_0800_sa2_18 sa3_2016_sf.1     0800      0800 3.123064
##          SA2_MAIN16 SA1_MAIN16 SA1_7DIG16 SA2_5DIG16      SA2_NAME16
## 1  701011002 70101100204    7100204      71002      Darwin City
## 2  701011002 70101100212    7100212      71002      Darwin City
## 3  701011002 70101100213    7100213      71002      Darwin City
## 4  701011002 70101100214    7100214      71002      Darwin City
## 5  701011002 70101100215    7100215      71002      Darwin City
## 6  701011002 70101100216    7100216      71002      Darwin City
## 7  701011004 70101100405    7100405      71004 Fannie Bay - The Gardens

```

```

## 8 701011005 70101100505 7100505 71005 Larrakeyah
## 9 701011005 70101100509 7100509 71005 Larrakeyah
## 10 701011005 70101100504 7100504 71005 Larrakeyah
## SA3_CODE16 SA3_NAME16 SA4_CODE16 SA4_NAME16 GCC_CODE16 GCC_NAME16
## 1 70101 Darwin City 701 Darwin 7GDAR Greater Darwin
## 2 70101 Darwin City 701 Darwin 7GDAR Greater Darwin
## 3 70101 Darwin City 701 Darwin 7GDAR Greater Darwin
## 4 70101 Darwin City 701 Darwin 7GDAR Greater Darwin
## 5 70101 Darwin City 701 Darwin 7GDAR Greater Darwin
## 6 70101 Darwin City 701 Darwin 7GDAR Greater Darwin
## 7 70101 Darwin City 701 Darwin 7GDAR Greater Darwin
## 8 70101 Darwin City 701 Darwin 7GDAR Greater Darwin
## 9 70101 Darwin City 701 Darwin 7GDAR Greater Darwin
## 10 70101 Darwin City 701 Darwin 7GDAR Greater Darwin
## STE_CODE16 STE_NAME16 SA3.code SA3.name SA2.code
## 1 7 Northern Territory 70101 Darwin City 71002
## 2 7 Northern Territory 70101 Darwin City 71002
## 3 7 Northern Territory 70101 Darwin City 71002
## 4 7 Northern Territory 70101 Darwin City 71002
## 5 7 Northern Territory 70101 Darwin City 71002
## 6 7 Northern Territory 70101 Darwin City 71002
## 7 7 Northern Territory 70101 Darwin City 71004
## 8 7 Northern Territory 70101 Darwin City 71005
## 9 7 Northern Territory 70101 Darwin City 71005
## 10 7 Northern Territory 70101 Darwin City 71005
## SA2.name S.T.code S.T.name GCCSA.code
## 1 Darwin City 7 Northern Territory 7GDAR
## 2 Darwin City 7 Northern Territory 7GDAR
## 3 Darwin City 7 Northern Territory 7GDAR
## 4 Darwin City 7 Northern Territory 7GDAR
## 5 Darwin City 7 Northern Territory 7GDAR
## 6 Darwin City 7 Northern Territory 7GDAR
## 7 Fannie Bay - The Gardens 7 Northern Territory 7GDAR
## 8 Larrakeyah 7 Northern Territory 7GDAR
## 9 Larrakeyah 7 Northern Territory 7GDAR
## 10 Larrakeyah 7 Northern Territory 7GDAR
## GCCSA.name SA4.code SA4.name whl_UNIT_ID_inc_SA1.popl_inc_SA1.popl
## 1 Greater Darwin 701 Darwin 651.6046688
## 2 Greater Darwin 701 Darwin 614.0000002
## 3 Greater Darwin 701 Darwin 564.0000028
## 4 Greater Darwin 701 Darwin 0.0000000
## 5 Greater Darwin 701 Darwin 870.0000223
## 6 Greater Darwin 701 Darwin 576.9999962
## 7 Greater Darwin 701 Darwin 35.0093776
## 8 Greater Darwin 701 Darwin 85.8417974
## 9 Greater Darwin 701 Darwin 3.8019655
## 10 Greater Darwin 701 Darwin 0.8443336
## pop_prop_multiplier_tot_pop whl_UNIT_ID_inc_SA1.popl_y2016.Females.0.4
## 1 0.08652656 12.06889611
## 2 0.08153304 11.37238968
## 3 0.07489354 10.44629936
## 4 0.00000000 0.00000000
## 5 0.11552727 16.11397276
## 6 0.07661981 10.68708274

```

```

## 7          1.00000000 1.84410043
## 8          0.94865292 2.44930796
## 9          0.04201619 0.10848077
## 10         0.00933088 0.02409121
##      whl_UNIT_ID_inc_SA1_popl_y2016.Females.5.9
## 1          7.15810390
## 2          6.74500353
## 3          6.19573618
## 4          0.00000000
## 5          9.55725281
## 6          6.33854562
## 7          2.03058249
## 8          1.94179369
## 9          0.08600277
## 10         0.01909934
##      whl_UNIT_ID_inc_SA1_popl_y2016.Females.10.14
## 1          5.24372727
## 2          4.94110724
## 3          4.53873697
## 4          0.00000000
## 5          7.00124334
## 6          4.64335319
## 7          1.88554089
## 8          1.41221360
## 9          0.06254747
## 10         0.01389043
##      whl_UNIT_ID_inc_SA1_popl_y2016.Females.15.19
## 1          6.99163636
## 2          6.58814299
## 3          6.05164929
## 4          0.00000000
## 5          9.33499111
## 6          6.19113759
## 7          1.36753515
## 8          1.47841111
## 9          0.06547938
## 10         0.01454154
##      whl_UNIT_ID_inc_SA1_popl_y2016.Females.20.24
## 1          31.21266234
## 2          29.41135262
## 3          27.01629146
## 4          0.00000000
## 5          41.67406747
## 6          27.63900708
## 7          1.59545767
## 8          3.15541475
## 9          0.13975451
## 10         0.03103643
##      whl_UNIT_ID_inc_SA1_popl_y2016.Females.25.29
## 1          55.35045455
## 2          52.15613198
## 3          47.90889019
## 4          0.00000000
## 5          73.90201299

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## 6          49.01317256
## 7          3.50171879
## 8          6.28876367
## 9          0.27853171
## 10         0.06185582
##   whl_UNIT_ID_inc_SA1_popl_y2016.Males.0.4
## 1          13.31740260
## 2          12.54884379
## 3          11.52695102
## 4          0.00000000
## 5          17.78093546
## 6          11.79264302
## 7          1.90626111
## 8          2.71409801
## 9          0.12020842
## 10         0.02669567
##   whl_UNIT_ID_inc_SA1_popl_y2016.Males.5.9
## 1          7.32457143
## 2          6.90186408
## 3          6.33982306
## 4          0.00000000
## 5          9.77951450
## 6          6.48595366
## 7          1.71977905
## 8          2.25071542
## 9          0.09968503
## 10         0.02213787
##   whl_UNIT_ID_inc_SA1_popl_y2016.Males.10.14
## 1          5.16049351
## 2          4.86267697
## 3          4.46669352
## 4          0.00000000
## 5          6.89011249
## 6          4.56964917
## 7          2.05130272
## 8          1.61080613
## 9          0.07134321
## 10         0.01584377
##   whl_UNIT_ID_inc_SA1_popl_y2016.Males.15.19
## 1          4.24492208
## 2          3.99994396
## 3          3.67421564
## 4          0.00000000
## 5          5.66767318
## 6          3.75890496
## 7          1.90626111
## 8          1.41221360
## 9          0.06254747
## 10         0.01389043
##   whl_UNIT_ID_inc_SA1_popl_y2016.Males.20.24
## 1          30.63002598
## 2          28.86234071
## 3          26.51198735
## 4          0.00000000

```

```

## 5          40.89615155
## 6          27.12307895
## 7          1.65761836
## 8          4.34696998
## 9          0.19252894
## 10         0.04275648
##   whl_UNIT_ID_inc_SA1_popl_y2016.Males.25.29 POA_NAME1 POA_NAME2
## 1          64.00676624    0800    0800
## 2          60.31288044    0800    0800
## 3          55.40140836    0800    0800
## 4          0.00000000    0800    0800
## 5          85.45962103    0800    0800
## 6          56.67839052    0800    0800
## 7          3.58459971    0800    0800
## 8          6.77421209    0800    0800
## 9          0.30003240    0800    0800
## 10         0.06663065    0800    0800
##   whl_UNIT_ID_pop_sp_unit_area   whl_UNIT_ID_area   inc_UNIT_ID_area
## 1          470624.1892 [m^2] 0.4706241891 [km^2] 0.4706241891 [km^2]
## 2          64429.6649 [m^2] 0.0644296642 [km^2] 0.0644296642 [km^2]
## 3          63652.9508 [m^2] 0.0636529505 [km^2] 0.0636529505 [km^2]
## 4          100359.4983 [m^2] 0.1003594212 [km^2] 0.1003594212 [km^2]
## 5          49238.0553 [m^2] 0.0492380559 [km^2] 0.0492380559 [km^2]
## 6          130123.3757 [m^2] 0.1301233766 [km^2] 0.1301233766 [km^2]
## 7          83106.6972 [m^2] 0.0831066963 [km^2] 0.0831066963 [km^2]
## 8          42348.9763 [m^2] 0.0423489504 [km^2] 0.0423489504 [km^2]
## 9          177.5008 [m^2] 0.0001775004 [km^2] 0.0001775004 [km^2]
## 10         118.4368 [m^2] 0.0001184366 [km^2] 0.0001184366 [km^2]
##   inc_UNIT_ID_prop inc_UNIT_ID_popl_inc_SA1_popl_y2016.Females.0.4
## 1          1                      12.06889611
## 2          1                      11.37238968
## 3          1                      10.44629936
## 4          1                      0.00000000
## 5          1                      16.11397276
## 6          1                      10.68708274
## 7          1                      1.84410043
## 8          1                      2.44930796
## 9          1                      0.10848077
## 10         1                      0.02409121
##   inc_UNIT_ID_popl_inc_SA1_popl_y2016.Females.5.9
## 1          7.15810390
## 2          6.74500353
## 3          6.19573618
## 4          0.00000000
## 5          9.55725281
## 6          6.33854562
## 7          2.03058249
## 8          1.94179369
## 9          0.08600277
## 10         0.01909934
##   inc_UNIT_ID_popl_inc_SA1_popl_y2016.Females.10.14
## 1          5.24372727
## 2          4.94110724
## 3          4.53873697

```

```

## 4          0.00000000
## 5          7.00124334
## 6          4.64335319
## 7          1.88554089
## 8          1.41221360
## 9          0.06254747
## 10         0.01389043
##   inc_UNIT_ID_popl_inc_SA1_popl_y2016.Females.15.19
## 1          6.99163636
## 2          6.58814299
## 3          6.05164929
## 4          0.00000000
## 5          9.33499111
## 6          6.19113759
## 7          1.36753515
## 8          1.47841111
## 9          0.06547938
## 10         0.01454154
##   inc_UNIT_ID_popl_inc_SA1_popl_y2016.Females.20.24
## 1          31.21266234
## 2          29.41135262
## 3          27.01629146
## 4          0.00000000
## 5          41.67406747
## 6          27.63900708
## 7          1.59545767
## 8          3.15541475
## 9          0.13975451
## 10         0.03103643
##   inc_UNIT_ID_popl_inc_SA1_popl_y2016.Females.25.29
## 1          55.35045455
## 2          52.15613198
## 3          47.90889019
## 4          0.00000000
## 5          73.90201299
## 6          49.01317256
## 7          3.50171879
## 8          6.28876367
## 9          0.27853171
## 10         0.06185582
##   inc_UNIT_ID_popl_inc_SA1_popl_y2016.Males.0.4
## 1          13.31740260
## 2          12.54884379
## 3          11.52695102
## 4          0.00000000
## 5          17.78093546
## 6          11.79264302
## 7          1.90626111
## 8          2.71409801
## 9          0.12020842
## 10         0.02669567
##   inc_UNIT_ID_popl_inc_SA1_popl_y2016.Males.5.9
## 1          7.32457143
## 2          6.90186408

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## 3           6.33982306
## 4           0.00000000
## 5           9.77951450
## 6           6.48595366
## 7           1.71977905
## 8           2.25071542
## 9           0.09968503
## 10          0.02213787
##   inc_UNIT_ID_popl_inc_SA1_popl_y2016.Males.10.14
## 1           5.16049351
## 2           4.86267697
## 3           4.46669352
## 4           0.00000000
## 5           6.89011249
## 6           4.56964917
## 7           2.05130272
## 8           1.61080613
## 9           0.07134321
## 10          0.01584377
##   inc_UNIT_ID_popl_inc_SA1_popl_y2016.Males.15.19
## 1           4.24492208
## 2           3.99994396
## 3           3.67421564
## 4           0.00000000
## 5           5.66767318
## 6           3.75890496
## 7           1.90626111
## 8           1.41221360
## 9           0.06254747
## 10          0.01389043
##   inc_UNIT_ID_popl_inc_SA1_popl_y2016.Males.20.24
## 1           30.63002598
## 2           28.86234071
## 3           26.51198735
## 4           0.00000000
## 5           40.89615155
## 6           27.12307895
## 7           1.65761836
## 8           4.34696998
## 9           0.19252894
## 10          0.04275648
##   inc_UNIT_ID_popl_inc_SA1_popl_y2016.Males.25.29
## 1           64.00676624
## 2           60.31288044
## 3           55.40140836
## 4           0.00000000
## 5           85.45962103
## 6           56.67839052
## 7           3.58459971
## 8           6.77421209
## 9           0.30003240
## 10          0.06663065
##   geometry
## 1  POLYGON ((130.8422 -12.4526...

```

```

## 2 POLYGON ((130.8409 -12.4583...
## 3 POLYGON ((130.8382 -12.4556...
## 4 POLYGON ((130.8333 -12.4606...
## 5 POLYGON ((130.8393 -12.4530...
## 6 POLYGON ((130.8389 -12.4603...
## 7 POLYGON ((130.8347 -12.4554...
## 8 POLYGON ((130.8333 -12.4606...
## 9 POLYGON ((130.8343 -12.4558...
## 10 POLYGON ((130.8334 -12.4568...
##
## $popl_var_prefix
## [1] "inc_SA1_popl_"
##
##
## Slot "env_sf":
## Simple feature collection with 0 features and 0 fields
## bbox:           xmin: NA ymin: NA xmax: NA ymax: NA
## epsg (SRID):    NA
## proj4string:    NA
## [1] sf..st_sfc..
## <0 rows> (or 0-length row.names)
##
## Slot "par_vals":
## # A tibble: 57 x 11
##   parameter_name v_it_1 v_it_2 v_it_3 v_it_4 v_it_5 v_it_6 v_it_7 v_it_8 v_it_9
##   <chr>          <dbl>  <dbl>  <dbl>  <dbl>  <dbl>  <dbl>  <dbl>  <dbl>  <dbl>
## 1 pop_pe_sign     -1     -1     -1     -1     -1     -1     -1     -1     -1
## 2 mape_05_yr_f_~  5.36   3.54   3.14   1.88   3.33   2.44   5.01   2.53   5.17
## 3 mape_05_yr_f_~  1.73   1.42   1.02   0.618  1.24   2.02   0.960  0.839  0.710
## 4 mape_05_yr_f_~  0.624  0.957  0.773  0.985  0.873  2.26   1.68   2.59   0.943
## 5 mape_05_yr_f_~  1.34   1.12   1.93   1.82   1.43   1.20   1.80   1.04   0.891
## 6 mape_05_yr_f_~  1.22   2.97   2.11   1.28   2.07   3.14   2.51   2.53   3.01
## 7 mape_05_yr_f_~  3.47   0.905  2.38   3.02   4.50   2.67   4.38   1.39   2.64
## 8 mape_05_yr_m_~  6.05   4.44   2.19   4.58   2.11   3.78   1.75   3.71   4.91
## 9 mape_05_yr_m_~  0.398  1.17   1.31   0.849  1.25   1.33   1.17   1.43   1.34
## 10 mape_05_yr_m_~ 0.441  1.99   0.883  2.39   0.879  1.41   0.898  1.52   1.53
## # ... with 47 more rows, and 1 more variable: v_it_10 <dbl>
##
##
## Slot "agent_pops":
## An object of class "ready4_agent"
## Slot "population_tb":
## # A tibble: 0 x 0
##
## Slot "attribute_classes":
## # A tibble: 0 x 6
## # ... with 6 variables: nm_core <chr>, category <chr>, class <chr>,
## #   varies <lgl>, connection <lgl>, terminal <lgl>
##
## Slot "fixed_elements":
## # A tibble: 0 x 6
## # ... with 6 variables: nm_core <chr>, category <chr>, class <chr>,
## #   varies <lgl>, connection <lgl>, terminal <lgl>
##

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## Slot "dynamic_elements":
## # A tibble: 0 x 10
## # ... with 10 variables: category <chr>, baseline <chr>, variable <chr>,
## #   event <chr>, scheduling <chr>, calculation <chr>, triggers <list>,
## #   reschedules <list>, triggered_by <list>, rescheduled_by <list>
##
## Slot "parameters":
## # A tibble: 0 x 2
## # ... with 2 variables: param <chr>, data <list>
##
##
## Slot "age_lower":
## [1] 19
##
## Slot "age_upper":
## [1] 25
##
## Slot "pre_model_date":
## [1] "2016-07-01 12:00:00 AEST"
##
## Slot "model_start_date":
## [1] "2018-07-01 12:00:00 AEST"
##
## Slot "model_end_date":
## [1] "2020-03-01 12:00:00 AEDT"
##
## Slot "time_steps":
## [1] 1 8 0 0 0 0 0
##
## Slot "nbr_steps":
## [1] 1
##
## Slot "results":
## # A tibble: 0 x 0
##
##
## $sim_results_ls
## $sim_results_ls[[1]]
## # A tibble: 19 x 124
##   pop_sp_unit_id acgr_y2016_f_15~ acgr_y2016_f_20~ acgr_y2016_f_25~
##   <chr>           <dbl>          <dbl>          <dbl>
## 1 sa3_2016_sf.1~ -0.00224      -0.0335       -0.0365
## 2 sa3_2016_sf.1~ -0.00224      -0.0335       -0.0365
## 3 sa3_2016_sf.1~ -0.00224      -0.0335       -0.0365
## 4 sa3_2016_sf.1~ -0.00224      -0.0335       -0.0365
## 5 sa3_2016_sf.1~ -0.00224      -0.0335       -0.0365
## 6 sa3_2016_sf.1~ -0.00224      -0.0335       -0.0365
## 7 sa3_2016_sf.1~ -0.00224      -0.0335       -0.0365
## 8 sa3_2016_sf.1~ -0.00224      -0.0335       -0.0365
## 9 sa3_2016_sf.1~ -0.00224      -0.0335       -0.0365
## 10 sa3_2016_sf.1~ -0.00224      -0.0335       -0.0365
## 11 sa3_2016_sf.1~ -0.00224      -0.0335       -0.0365
## 12 sa3_2016_sf.1~ -0.00224      -0.0335       -0.0365
## 13 sa3_2016_sf.1~ -0.00224      -0.0335       -0.0365

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## 14 sa3_2016_sf.1~ -0.00224 -0.0335 -0.0365
## 15 sa3_2016_sf.1~ -0.00224 -0.0335 -0.0365
## 16 sa3_2016_sf.1~ -0.00224 -0.0335 -0.0365
## 17 sa3_2016_sf.1~ -0.00224 -0.0335 -0.0365
## 18 sa3_2016_sf.1~ -0.00224 -0.0335 -0.0365
## 19 sa3_2016_sf.1~ -0.00224 -0.0335 -0.0365
## # ... with 120 more variables: acgr_y2016_m_15_19 <dbl>,
## # acgr_y2016_m_20_24 <dbl>, acgr_y2016_m_25_29 <dbl>, t0_20180701_f_19 <dbl>,
## # t0_20180701_m_19 <dbl>, t0_20180701_f_20 <dbl>, t0_20180701_m_20 <dbl>,
## # t0_20180701_f_21 <dbl>, t0_20180701_m_21 <dbl>, t0_20180701_f_22 <dbl>,
## # t0_20180701_m_22 <dbl>, t0_20180701_f_23 <dbl>, t0_20180701_m_23 <dbl>,
## # t0_20180701_f_24 <dbl>, t0_20180701_m_24 <dbl>, t0_20180701_f_25 <dbl>,
## # t0_20180701_m_25 <dbl>, ti_20190701_f_19 <dbl>, ti_20190701_m_19 <dbl>,
## # ti_20190701_f_20 <dbl>, ti_20190701_m_20 <dbl>, ti_20190701_f_21 <dbl>,
## # ti_20190701_m_21 <dbl>, ti_20190701_f_22 <dbl>, ti_20190701_m_22 <dbl>,
## # ti_20190701_f_23 <dbl>, ti_20190701_m_23 <dbl>, ti_20190701_f_24 <dbl>,
## # ti_20190701_m_24 <dbl>, ti_20190701_f_25 <dbl>, ti_20190701_m_25 <dbl>,
## # tx_20200301_f_19 <dbl>, tx_20200301_m_19 <dbl>, tx_20200301_f_20 <dbl>,
## # tx_20200301_m_20 <dbl>, tx_20200301_f_21 <dbl>, tx_20200301_m_21 <dbl>,
## # tx_20200301_f_22 <dbl>, tx_20200301_m_22 <dbl>, tx_20200301_f_23 <dbl>,
## # tx_20200301_m_23 <dbl>, tx_20200301_f_24 <dbl>, tx_20200301_m_24 <dbl>,
## # tx_20200301_f_25 <dbl>, tx_20200301_m_25 <dbl>, t0_20180701_f_t1 <dbl>,
## # tx_20200301_f_t1 <dbl>, t0_20180701_m_t1 <dbl>, tx_20200301_m_t1 <dbl>,
## # t0_20180701_p_t1 <dbl>, tx_20200301_p_t1 <dbl>, delta_20200301_f_19 <dbl>,
## # delta_20200301_m_19 <dbl>, delta_20200301_f_20 <dbl>,
## # delta_20200301_m_20 <dbl>, delta_20200301_f_21 <dbl>,
## # delta_20200301_m_21 <dbl>, delta_20200301_f_22 <dbl>,
## # delta_20200301_m_22 <dbl>, delta_20200301_f_23 <dbl>,
## # delta_20200301_m_23 <dbl>, delta_20200301_f_24 <dbl>,
## # delta_20200301_m_24 <dbl>, delta_20200301_f_25 <dbl>,
## # delta_20200301_m_25 <dbl>, delta_20200301_f_t1 <dbl>,
## # delta_20200301_m_t1 <dbl>, delta_20200301_p_t1 <dbl>,
## # t0_prev_any_affective_disorder_f_19 <dbl>,
## # t0_prev_any_affective_disorder_m_19 <dbl>,
## # t0_prev_any_affective_disorder_f_20 <dbl>,
## # t0_prev_any_affective_disorder_m_20 <dbl>,
## # t0_prev_any_affective_disorder_f_21 <dbl>,
## # t0_prev_any_affective_disorder_m_21 <dbl>,
## # t0_prev_any_affective_disorder_f_22 <dbl>,
## # t0_prev_any_affective_disorder_m_22 <dbl>,
## # t0_prev_any_affective_disorder_f_23 <dbl>,
## # t0_prev_any_affective_disorder_m_23 <dbl>,
## # t0_prev_any_affective_disorder_f_24 <dbl>,
## # t0_prev_any_affective_disorder_m_24 <dbl>,
## # t0_prev_any_affective_disorder_f_25 <dbl>,
## # t0_prev_any_affective_disorder_m_25 <dbl>,
## # tx_prev_any_affective_disorder_f_19 <dbl>,
## # tx_prev_any_affective_disorder_m_19 <dbl>,
## # tx_prev_any_affective_disorder_f_20 <dbl>,
## # tx_prev_any_affective_disorder_m_20 <dbl>,
## # tx_prev_any_affective_disorder_f_21 <dbl>,
## # tx_prev_any_affective_disorder_m_21 <dbl>,
## # tx_prev_any_affective_disorder_f_22 <dbl>,
## # tx_prev_any_affective_disorder_m_22 <dbl>,

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## #  tx_prev_any_affective_disorder_f_23 <dbl>,
## #  tx_prev_any_affective_disorder_m_23 <dbl>,
## #  tx_prev_any_affective_disorder_f_24 <dbl>,
## #  tx_prev_any_affective_disorder_m_24 <dbl>,
## #  tx_prev_any_affective_disorder_f_25 <dbl>,
## #  tx_prev_any_affective_disorder_m_25 <dbl>,
## #  t0_prev_any_affective_disorder_f_t1 <dbl>,
## #  tx_prev_any_affective_disorder_f_t1 <dbl>,
## #  t0_prev_any_affective_disorder_m_t1 <dbl>,
## #  tx_prev_any_affective_disorder_m_t1 <dbl>, ...
##
## $sim_results_ls[[2]]
## # A tibble: 19 x 124
##   pop_sp_unit_id acgr_y2016_f_15~ acgr_y2016_f_20~ acgr_y2016_f_25~
##   <chr>           <dbl>          <dbl>          <dbl>
## 1 sa3_2016_sf.1~ -0.00178      -0.0375      -0.0307
## 2 sa3_2016_sf.1~ -0.00178      -0.0375      -0.0307
## 3 sa3_2016_sf.1~ -0.00178      -0.0375      -0.0307
## 4 sa3_2016_sf.1~ -0.00178      -0.0375      -0.0307
## 5 sa3_2016_sf.1~ -0.00178      -0.0375      -0.0307
## 6 sa3_2016_sf.1~ -0.00178      -0.0375      -0.0307
## 7 sa3_2016_sf.1~ -0.00178      -0.0375      -0.0307
## 8 sa3_2016_sf.1~ -0.00178      -0.0375      -0.0307
## 9 sa3_2016_sf.1~ -0.00178      -0.0375      -0.0307
## 10 sa3_2016_sf.1~ -0.00178      -0.0375      -0.0307
## 11 sa3_2016_sf.1~ -0.00178      -0.0375      -0.0307
## 12 sa3_2016_sf.1~ -0.00178      -0.0375      -0.0307
## 13 sa3_2016_sf.1~ -0.00178      -0.0375      -0.0307
## 14 sa3_2016_sf.1~ -0.00178      -0.0375      -0.0307
## 15 sa3_2016_sf.1~ -0.00178      -0.0375      -0.0307
## 16 sa3_2016_sf.1~ -0.00178      -0.0375      -0.0307
## 17 sa3_2016_sf.1~ -0.00178      -0.0375      -0.0307
## 18 sa3_2016_sf.1~ -0.00178      -0.0375      -0.0307
## 19 sa3_2016_sf.1~ -0.00178      -0.0375      -0.0307
## # ... with 120 more variables: acgr_y2016_m_15_19 <dbl>,
## #   acgr_y2016_m_20_24 <dbl>, acgr_y2016_m_25_29 <dbl>, t0_20180701_f_19 <dbl>,
## #   t0_20180701_m_19 <dbl>, t0_20180701_f_20 <dbl>, t0_20180701_m_20 <dbl>,
## #   t0_20180701_f_21 <dbl>, t0_20180701_m_21 <dbl>, t0_20180701_f_22 <dbl>,
## #   t0_20180701_m_22 <dbl>, t0_20180701_f_23 <dbl>, t0_20180701_m_23 <dbl>,
## #   t0_20180701_f_24 <dbl>, t0_20180701_m_24 <dbl>, t0_20180701_f_25 <dbl>,
## #   t0_20180701_m_25 <dbl>, ti_20190701_f_19 <dbl>, ti_20190701_m_19 <dbl>,
## #   ti_20190701_f_20 <dbl>, ti_20190701_m_20 <dbl>, ti_20190701_f_21 <dbl>,
## #   ti_20190701_m_21 <dbl>, ti_20190701_f_22 <dbl>, ti_20190701_m_22 <dbl>,
## #   ti_20190701_f_23 <dbl>, ti_20190701_m_23 <dbl>, ti_20190701_f_24 <dbl>,
## #   ti_20190701_m_24 <dbl>, ti_20190701_f_25 <dbl>, ti_20190701_m_25 <dbl>,
## #   tx_20200301_f_19 <dbl>, tx_20200301_m_19 <dbl>, tx_20200301_f_20 <dbl>,
## #   tx_20200301_m_20 <dbl>, tx_20200301_f_21 <dbl>, tx_20200301_m_21 <dbl>,
## #   tx_20200301_f_22 <dbl>, tx_20200301_m_22 <dbl>, tx_20200301_f_23 <dbl>,
## #   tx_20200301_m_23 <dbl>, tx_20200301_f_24 <dbl>, tx_20200301_m_24 <dbl>,
## #   tx_20200301_f_25 <dbl>, tx_20200301_m_25 <dbl>, t0_20180701_f_t1 <dbl>,
## #   tx_20200301_f_t1 <dbl>, t0_20180701_m_t1 <dbl>, tx_20200301_m_t1 <dbl>,
## #   t0_20180701_p_t1 <dbl>, tx_20200301_p_t1 <dbl>, delta_20200301_f_19 <dbl>,
## #   delta_20200301_m_19 <dbl>, delta_20200301_f_20 <dbl>,
## #   delta_20200301_m_20 <dbl>, delta_20200301_f_21 <dbl>,

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## #  delta_20200301_m_21 <dbl>, delta_20200301_f_22 <dbl>,
## #  delta_20200301_m_22 <dbl>, delta_20200301_f_23 <dbl>,
## #  delta_20200301_m_23 <dbl>, delta_20200301_f_24 <dbl>,
## #  delta_20200301_m_24 <dbl>, delta_20200301_f_25 <dbl>,
## #  delta_20200301_m_25 <dbl>, delta_20200301_f_tl <dbl>,
## #  delta_20200301_m_tl <dbl>, delta_20200301_p_tl <dbl>,
## #  t0_prev_any_affective_disorder_f_19 <dbl>,
## #  t0_prev_any_affective_disorder_m_19 <dbl>,
## #  t0_prev_any_affective_disorder_f_20 <dbl>,
## #  t0_prev_any_affective_disorder_m_20 <dbl>,
## #  t0_prev_any_affective_disorder_f_21 <dbl>,
## #  t0_prev_any_affective_disorder_m_21 <dbl>,
## #  t0_prev_any_affective_disorder_f_22 <dbl>,
## #  t0_prev_any_affective_disorder_m_22 <dbl>,
## #  t0_prev_any_affective_disorder_f_23 <dbl>,
## #  t0_prev_any_affective_disorder_m_23 <dbl>,
## #  t0_prev_any_affective_disorder_f_24 <dbl>,
## #  t0_prev_any_affective_disorder_m_24 <dbl>,
## #  t0_prev_any_affective_disorder_f_25 <dbl>,
## #  t0_prev_any_affective_disorder_m_25 <dbl>,
## #  tx_prev_any_affective_disorder_f_19 <dbl>,
## #  tx_prev_any_affective_disorder_m_19 <dbl>,
## #  tx_prev_any_affective_disorder_f_20 <dbl>,
## #  tx_prev_any_affective_disorder_m_20 <dbl>,
## #  tx_prev_any_affective_disorder_f_21 <dbl>,
## #  tx_prev_any_affective_disorder_m_21 <dbl>,
## #  tx_prev_any_affective_disorder_f_22 <dbl>,
## #  tx_prev_any_affective_disorder_m_22 <dbl>,
## #  tx_prev_any_affective_disorder_f_23 <dbl>,
## #  tx_prev_any_affective_disorder_m_23 <dbl>,
## #  tx_prev_any_affective_disorder_f_24 <dbl>,
## #  tx_prev_any_affective_disorder_m_24 <dbl>,
## #  tx_prev_any_affective_disorder_f_25 <dbl>,
## #  tx_prev_any_affective_disorder_m_25 <dbl>,
## #  t0_prev_any_affective_disorder_f_tl <dbl>,
## #  tx_prev_any_affective_disorder_f_tl <dbl>,
## #  t0_prev_any_affective_disorder_m_tl <dbl>,
## #  tx_prev_any_affective_disorder_m_tl <dbl>, ...
##
## $sim_results_ls[[3]]
## # A tibble: 19 x 124
##   pop_sp_unit_id acgr_y2016_f_15~ acgr_y2016_f_20~ acgr_y2016_f_25~
##   <chr>           <dbl>           <dbl>           <dbl>
## 1 sa3_2016_sf.1~ -0.00341       -0.0355        -0.0340
## 2 sa3_2016_sf.1~ -0.00341       -0.0355        -0.0340
## 3 sa3_2016_sf.1~ -0.00341       -0.0355        -0.0340
## 4 sa3_2016_sf.1~ -0.00341       -0.0355        -0.0340
## 5 sa3_2016_sf.1~ -0.00341       -0.0355        -0.0340
## 6 sa3_2016_sf.1~ -0.00341       -0.0355        -0.0340
## 7 sa3_2016_sf.1~ -0.00341       -0.0355        -0.0340
## 8 sa3_2016_sf.1~ -0.00341       -0.0355        -0.0340
## 9 sa3_2016_sf.1~ -0.00341       -0.0355        -0.0340
## 10 sa3_2016_sf.1~ -0.00341       -0.0355        -0.0340
## 11 sa3_2016_sf.1~ -0.00341       -0.0355        -0.0340

```

```

## 12 sa3_2016_sf.1~ -0.00341 -0.0355 -0.0340
## 13 sa3_2016_sf.1~ -0.00341 -0.0355 -0.0340
## 14 sa3_2016_sf.1~ -0.00341 -0.0355 -0.0340
## 15 sa3_2016_sf.1~ -0.00341 -0.0355 -0.0340
## 16 sa3_2016_sf.1~ -0.00341 -0.0355 -0.0340
## 17 sa3_2016_sf.1~ -0.00341 -0.0355 -0.0340
## 18 sa3_2016_sf.1~ -0.00341 -0.0355 -0.0340
## 19 sa3_2016_sf.1~ -0.00341 -0.0355 -0.0340
## # ... with 120 more variables: acgr_y2016_m_15_19 <dbl>,
## # acgr_y2016_m_20_24 <dbl>, acgr_y2016_m_25_29 <dbl>, t0_20180701_f_19 <dbl>,
## # t0_20180701_m_19 <dbl>, t0_20180701_f_20 <dbl>, t0_20180701_m_20 <dbl>,
## # t0_20180701_f_21 <dbl>, t0_20180701_m_21 <dbl>, t0_20180701_f_22 <dbl>,
## # t0_20180701_m_22 <dbl>, t0_20180701_f_23 <dbl>, t0_20180701_m_23 <dbl>,
## # t0_20180701_f_24 <dbl>, t0_20180701_m_24 <dbl>, t0_20180701_f_25 <dbl>,
## # t0_20180701_m_25 <dbl>, ti_20190701_f_19 <dbl>, ti_20190701_m_19 <dbl>,
## # ti_20190701_f_20 <dbl>, ti_20190701_m_20 <dbl>, ti_20190701_f_21 <dbl>,
## # ti_20190701_m_21 <dbl>, ti_20190701_f_22 <dbl>, ti_20190701_m_22 <dbl>,
## # ti_20190701_f_23 <dbl>, ti_20190701_m_23 <dbl>, ti_20190701_f_24 <dbl>,
## # ti_20190701_m_24 <dbl>, ti_20190701_f_25 <dbl>, ti_20190701_m_25 <dbl>,
## # tx_20200301_f_19 <dbl>, tx_20200301_m_19 <dbl>, tx_20200301_f_20 <dbl>,
## # tx_20200301_m_20 <dbl>, tx_20200301_f_21 <dbl>, tx_20200301_m_21 <dbl>,
## # tx_20200301_f_22 <dbl>, tx_20200301_m_22 <dbl>, tx_20200301_f_23 <dbl>,
## # tx_20200301_m_23 <dbl>, tx_20200301_f_24 <dbl>, tx_20200301_m_24 <dbl>,
## # tx_20200301_f_25 <dbl>, tx_20200301_m_25 <dbl>, t0_20180701_f_t1 <dbl>,
## # tx_20200301_f_t1 <dbl>, t0_20180701_m_t1 <dbl>, tx_20200301_m_t1 <dbl>,
## # t0_20180701_p_t1 <dbl>, tx_20200301_p_t1 <dbl>, delta_20200301_f_19 <dbl>,
## # delta_20200301_m_19 <dbl>, delta_20200301_f_20 <dbl>,
## # delta_20200301_m_20 <dbl>, delta_20200301_f_21 <dbl>,
## # delta_20200301_m_21 <dbl>, delta_20200301_f_22 <dbl>,
## # delta_20200301_m_22 <dbl>, delta_20200301_f_23 <dbl>,
## # delta_20200301_m_23 <dbl>, delta_20200301_f_24 <dbl>,
## # delta_20200301_m_24 <dbl>, delta_20200301_f_25 <dbl>,
## # delta_20200301_m_25 <dbl>, delta_20200301_f_t1 <dbl>,
## # delta_20200301_m_t1 <dbl>, delta_20200301_p_t1 <dbl>,
## # t0_prev_any_affective_disorder_f_19 <dbl>,
## # t0_prev_any_affective_disorder_m_19 <dbl>,
## # t0_prev_any_affective_disorder_f_20 <dbl>,
## # t0_prev_any_affective_disorder_m_20 <dbl>,
## # t0_prev_any_affective_disorder_f_21 <dbl>,
## # t0_prev_any_affective_disorder_m_21 <dbl>,
## # t0_prev_any_affective_disorder_f_22 <dbl>,
## # t0_prev_any_affective_disorder_m_22 <dbl>,
## # t0_prev_any_affective_disorder_f_23 <dbl>,
## # t0_prev_any_affective_disorder_m_23 <dbl>,
## # t0_prev_any_affective_disorder_f_24 <dbl>,
## # t0_prev_any_affective_disorder_m_24 <dbl>,
## # t0_prev_any_affective_disorder_f_25 <dbl>,
## # t0_prev_any_affective_disorder_m_25 <dbl>,
## # tx_prev_any_affective_disorder_f_19 <dbl>,
## # tx_prev_any_affective_disorder_m_19 <dbl>,
## # tx_prev_any_affective_disorder_f_20 <dbl>,
## # tx_prev_any_affective_disorder_m_20 <dbl>,
## # tx_prev_any_affective_disorder_f_21 <dbl>,
## # tx_prev_any_affective_disorder_m_21 <dbl>,

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## #  tx_prev_any_affective_disorder_f_22 <dbl>,
## #  tx_prev_any_affective_disorder_m_22 <dbl>,
## #  tx_prev_any_affective_disorder_f_23 <dbl>,
## #  tx_prev_any_affective_disorder_m_23 <dbl>,
## #  tx_prev_any_affective_disorder_f_24 <dbl>,
## #  tx_prev_any_affective_disorder_m_24 <dbl>,
## #  tx_prev_any_affective_disorder_f_25 <dbl>,
## #  tx_prev_any_affective_disorder_m_25 <dbl>,
## #  t0_prev_any_affective_disorder_f_tl <dbl>,
## #  tx_prev_any_affective_disorder_f_tl <dbl>,
## #  t0_prev_any_affective_disorder_m_tl <dbl>,
## #  tx_prev_any_affective_disorder_m_tl <dbl>, ...
##
## $sim_results_ls[[4]]
## # A tibble: 19 x 124
##   pop_sp_unit_id acgr_y2016_f_15~ acgr_y2016_f_20~ acgr_y2016_f_25~
##   <chr>           <dbl>          <dbl>          <dbl>
## 1 sa3_2016_sf.1~-0.00320       -0.0336        -0.0355
## 2 sa3_2016_sf.1~-0.00320       -0.0336        -0.0355
## 3 sa3_2016_sf.1~-0.00320       -0.0336        -0.0355
## 4 sa3_2016_sf.1~-0.00320       -0.0336        -0.0355
## 5 sa3_2016_sf.1~-0.00320       -0.0336        -0.0355
## 6 sa3_2016_sf.1~-0.00320       -0.0336        -0.0355
## 7 sa3_2016_sf.1~-0.00320       -0.0336        -0.0355
## 8 sa3_2016_sf.1~-0.00320       -0.0336        -0.0355
## 9 sa3_2016_sf.1~-0.00320       -0.0336        -0.0355
## 10 sa3_2016_sf.1~-0.00320       -0.0336        -0.0355
## 11 sa3_2016_sf.1~-0.00320       -0.0336        -0.0355
## 12 sa3_2016_sf.1~-0.00320       -0.0336        -0.0355
## 13 sa3_2016_sf.1~-0.00320       -0.0336        -0.0355
## 14 sa3_2016_sf.1~-0.00320       -0.0336        -0.0355
## 15 sa3_2016_sf.1~-0.00320       -0.0336        -0.0355
## 16 sa3_2016_sf.1~-0.00320       -0.0336        -0.0355
## 17 sa3_2016_sf.1~-0.00320       -0.0336        -0.0355
## 18 sa3_2016_sf.1~-0.00320       -0.0336        -0.0355
## 19 sa3_2016_sf.1~-0.00320       -0.0336        -0.0355
## # ... with 120 more variables: acgr_y2016_m_15_19 <dbl>,
## #   acgr_y2016_m_20_24 <dbl>, acgr_y2016_m_25_29 <dbl>, t0_20180701_f_19 <dbl>,
## #   t0_20180701_m_19 <dbl>, t0_20180701_f_20 <dbl>, t0_20180701_m_20 <dbl>,
## #   t0_20180701_f_21 <dbl>, t0_20180701_m_21 <dbl>, t0_20180701_f_22 <dbl>,
## #   t0_20180701_m_22 <dbl>, t0_20180701_f_23 <dbl>, t0_20180701_m_23 <dbl>,
## #   t0_20180701_f_24 <dbl>, t0_20180701_m_24 <dbl>, t0_20180701_f_25 <dbl>,
## #   t0_20180701_m_25 <dbl>, ti_20190701_f_19 <dbl>, ti_20190701_m_19 <dbl>,
## #   ti_20190701_f_20 <dbl>, ti_20190701_m_20 <dbl>, ti_20190701_f_21 <dbl>,
## #   ti_20190701_m_21 <dbl>, ti_20190701_f_22 <dbl>, ti_20190701_m_22 <dbl>,
## #   ti_20190701_f_23 <dbl>, ti_20190701_m_23 <dbl>, ti_20190701_f_24 <dbl>,
## #   ti_20190701_m_24 <dbl>, ti_20190701_f_25 <dbl>, ti_20190701_m_25 <dbl>,
## #   tx_20200301_f_19 <dbl>, tx_20200301_m_19 <dbl>, tx_20200301_f_20 <dbl>,
## #   tx_20200301_m_20 <dbl>, tx_20200301_f_21 <dbl>, tx_20200301_m_21 <dbl>,
## #   tx_20200301_f_22 <dbl>, tx_20200301_m_22 <dbl>, tx_20200301_f_23 <dbl>,
## #   tx_20200301_m_23 <dbl>, tx_20200301_f_24 <dbl>, tx_20200301_m_24 <dbl>,
## #   tx_20200301_f_25 <dbl>, tx_20200301_m_25 <dbl>, t0_20180701_f_tl <dbl>,
## #   tx_20200301_f_tl <dbl>, t0_20180701_m_tl <dbl>, tx_20200301_m_tl <dbl>,
## #   t0_20180701_p_tl <dbl>, tx_20200301_p_tl <dbl>, delta_20200301_f_19 <dbl>,

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## #  delta_20200301_m_19 <dbl>, delta_20200301_f_20 <dbl>,
## #  delta_20200301_m_20 <dbl>, delta_20200301_f_21 <dbl>,
## #  delta_20200301_m_21 <dbl>, delta_20200301_f_22 <dbl>,
## #  delta_20200301_m_22 <dbl>, delta_20200301_f_23 <dbl>,
## #  delta_20200301_m_23 <dbl>, delta_20200301_f_24 <dbl>,
## #  delta_20200301_m_24 <dbl>, delta_20200301_f_25 <dbl>,
## #  delta_20200301_m_25 <dbl>, delta_20200301_f_t1 <dbl>,
## #  delta_20200301_m_t1 <dbl>, delta_20200301_p_t1 <dbl>,
## #  t0_prev_any_affective_disorder_f_19 <dbl>,
## #  t0_prev_any_affective_disorder_m_19 <dbl>,
## #  t0_prev_any_affective_disorder_f_20 <dbl>,
## #  t0_prev_any_affective_disorder_m_20 <dbl>,
## #  t0_prev_any_affective_disorder_f_21 <dbl>,
## #  t0_prev_any_affective_disorder_m_21 <dbl>,
## #  t0_prev_any_affective_disorder_f_22 <dbl>,
## #  t0_prev_any_affective_disorder_m_22 <dbl>,
## #  t0_prev_any_affective_disorder_f_23 <dbl>,
## #  t0_prev_any_affective_disorder_m_23 <dbl>,
## #  t0_prev_any_affective_disorder_f_24 <dbl>,
## #  t0_prev_any_affective_disorder_m_24 <dbl>,
## #  t0_prev_any_affective_disorder_f_25 <dbl>,
## #  t0_prev_any_affective_disorder_m_25 <dbl>,
## #  tx_prev_any_affective_disorder_f_19 <dbl>,
## #  tx_prev_any_affective_disorder_m_19 <dbl>,
## #  tx_prev_any_affective_disorder_f_20 <dbl>,
## #  tx_prev_any_affective_disorder_m_20 <dbl>,
## #  tx_prev_any_affective_disorder_f_21 <dbl>,
## #  tx_prev_any_affective_disorder_m_21 <dbl>,
## #  tx_prev_any_affective_disorder_f_22 <dbl>,
## #  tx_prev_any_affective_disorder_m_22 <dbl>,
## #  tx_prev_any_affective_disorder_f_23 <dbl>,
## #  tx_prev_any_affective_disorder_m_23 <dbl>,
## #  tx_prev_any_affective_disorder_f_24 <dbl>,
## #  tx_prev_any_affective_disorder_m_24 <dbl>,
## #  tx_prev_any_affective_disorder_f_25 <dbl>,
## #  tx_prev_any_affective_disorder_m_25 <dbl>,
## #  t0_prev_any_affective_disorder_f_t1 <dbl>,
## #  tx_prev_any_affective_disorder_f_t1 <dbl>,
## #  t0_prev_any_affective_disorder_m_t1 <dbl>,
## #  tx_prev_any_affective_disorder_m_t1 <dbl>, ...
##
## $sim_results_ls[[5]]
## # A tibble: 19 x 124
##   pop_sp_unit_id acgr_y2016_f_15~ acgr_y2016_f_20~ acgr_y2016_f_25~
##   <chr>          <dbl>          <dbl>          <dbl>
## 1 sa3_2016_sf.1~ -0.00240      -0.0354      -0.0390
## 2 sa3_2016_sf.1~ -0.00240      -0.0354      -0.0390
## 3 sa3_2016_sf.1~ -0.00240      -0.0354      -0.0390
## 4 sa3_2016_sf.1~ -0.00240      -0.0354      -0.0390
## 5 sa3_2016_sf.1~ -0.00240      -0.0354      -0.0390
## 6 sa3_2016_sf.1~ -0.00240      -0.0354      -0.0390
## 7 sa3_2016_sf.1~ -0.00240      -0.0354      -0.0390
## 8 sa3_2016_sf.1~ -0.00240      -0.0354      -0.0390
## 9 sa3_2016_sf.1~ -0.00240      -0.0354      -0.0390

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## 10 sa3_2016_sf.1~ -0.00240 -0.0354 -0.0390
## 11 sa3_2016_sf.1~ -0.00240 -0.0354 -0.0390
## 12 sa3_2016_sf.1~ -0.00240 -0.0354 -0.0390
## 13 sa3_2016_sf.1~ -0.00240 -0.0354 -0.0390
## 14 sa3_2016_sf.1~ -0.00240 -0.0354 -0.0390
## 15 sa3_2016_sf.1~ -0.00240 -0.0354 -0.0390
## 16 sa3_2016_sf.1~ -0.00240 -0.0354 -0.0390
## 17 sa3_2016_sf.1~ -0.00240 -0.0354 -0.0390
## 18 sa3_2016_sf.1~ -0.00240 -0.0354 -0.0390
## 19 sa3_2016_sf.1~ -0.00240 -0.0354 -0.0390
## # ... with 120 more variables: acgr_y2016_m_15_19 <dbl>,
## # acgr_y2016_m_20_24 <dbl>, acgr_y2016_m_25_29 <dbl>, t0_20180701_f_19 <dbl>,
## # t0_20180701_m_19 <dbl>, t0_20180701_f_20 <dbl>, t0_20180701_m_20 <dbl>,
## # t0_20180701_f_21 <dbl>, t0_20180701_m_21 <dbl>, t0_20180701_f_22 <dbl>,
## # t0_20180701_m_22 <dbl>, t0_20180701_f_23 <dbl>, t0_20180701_m_23 <dbl>,
## # t0_20180701_f_24 <dbl>, t0_20180701_m_24 <dbl>, t0_20180701_f_25 <dbl>,
## # t0_20180701_m_25 <dbl>, ti_20190701_f_19 <dbl>, ti_20190701_m_19 <dbl>,
## # ti_20190701_f_20 <dbl>, ti_20190701_m_20 <dbl>, ti_20190701_f_21 <dbl>,
## # ti_20190701_m_21 <dbl>, ti_20190701_f_22 <dbl>, ti_20190701_m_22 <dbl>,
## # ti_20190701_f_23 <dbl>, ti_20190701_m_23 <dbl>, ti_20190701_f_24 <dbl>,
## # ti_20190701_m_24 <dbl>, ti_20190701_f_25 <dbl>, ti_20190701_m_25 <dbl>,
## # tx_20200301_f_19 <dbl>, tx_20200301_m_19 <dbl>, tx_20200301_f_20 <dbl>,
## # tx_20200301_m_20 <dbl>, tx_20200301_f_21 <dbl>, tx_20200301_m_21 <dbl>,
## # tx_20200301_f_22 <dbl>, tx_20200301_m_22 <dbl>, tx_20200301_f_23 <dbl>,
## # tx_20200301_m_23 <dbl>, tx_20200301_f_24 <dbl>, tx_20200301_m_24 <dbl>,
## # tx_20200301_f_25 <dbl>, tx_20200301_m_25 <dbl>, t0_20180701_f_t1 <dbl>,
## # tx_20200301_f_t1 <dbl>, t0_20180701_m_t1 <dbl>, tx_20200301_m_t1 <dbl>,
## # t0_20180701_p_t1 <dbl>, tx_20200301_p_t1 <dbl>, delta_20200301_f_19 <dbl>,
## # delta_20200301_m_19 <dbl>, delta_20200301_f_20 <dbl>,
## # delta_20200301_m_20 <dbl>, delta_20200301_f_21 <dbl>,
## # delta_20200301_m_21 <dbl>, delta_20200301_f_22 <dbl>,
## # delta_20200301_m_22 <dbl>, delta_20200301_f_23 <dbl>,
## # delta_20200301_m_23 <dbl>, delta_20200301_f_24 <dbl>,
## # delta_20200301_m_24 <dbl>, delta_20200301_f_25 <dbl>,
## # delta_20200301_m_25 <dbl>, delta_20200301_f_t1 <dbl>,
## # delta_20200301_m_t1 <dbl>, delta_20200301_p_t1 <dbl>,
## # t0_prev_any_affective_disorder_f_19 <dbl>,
## # t0_prev_any_affective_disorder_m_19 <dbl>,
## # t0_prev_any_affective_disorder_f_20 <dbl>,
## # t0_prev_any_affective_disorder_m_20 <dbl>,
## # t0_prev_any_affective_disorder_f_21 <dbl>,
## # t0_prev_any_affective_disorder_m_21 <dbl>,
## # t0_prev_any_affective_disorder_f_22 <dbl>,
## # t0_prev_any_affective_disorder_m_22 <dbl>,
## # t0_prev_any_affective_disorder_f_23 <dbl>,
## # t0_prev_any_affective_disorder_m_23 <dbl>,
## # t0_prev_any_affective_disorder_f_24 <dbl>,
## # t0_prev_any_affective_disorder_m_24 <dbl>,
## # t0_prev_any_affective_disorder_f_25 <dbl>,
## # t0_prev_any_affective_disorder_m_25 <dbl>,
## # tx_prev_any_affective_disorder_f_19 <dbl>,
## # tx_prev_any_affective_disorder_m_19 <dbl>,
## # tx_prev_any_affective_disorder_f_20 <dbl>,
## # tx_prev_any_affective_disorder_m_20 <dbl>,

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## #  tx_prev_any_affective_disorder_f_21 <dbl>,
## #  tx_prev_any_affective_disorder_m_21 <dbl>,
## #  tx_prev_any_affective_disorder_f_22 <dbl>,
## #  tx_prev_any_affective_disorder_m_22 <dbl>,
## #  tx_prev_any_affective_disorder_f_23 <dbl>,
## #  tx_prev_any_affective_disorder_m_23 <dbl>,
## #  tx_prev_any_affective_disorder_f_24 <dbl>,
## #  tx_prev_any_affective_disorder_m_24 <dbl>,
## #  tx_prev_any_affective_disorder_f_25 <dbl>,
## #  tx_prev_any_affective_disorder_m_25 <dbl>,
## #  t0_prev_any_affective_disorder_f_t1 <dbl>,
## #  tx_prev_any_affective_disorder_f_t1 <dbl>,
## #  t0_prev_any_affective_disorder_m_t1 <dbl>,
## #  tx_prev_any_affective_disorder_m_t1 <dbl>, ...
##
## $sim_results_ls[[6]]
## # A tibble: 19 x 124
##   pop_sp_unit_id acgr_y2016_f_15~ acgr_y2016_f_20~ acgr_y2016_f_25~
##   <chr>           <dbl>          <dbl>          <dbl>
## 1 sa3_2016_sf.1~-0.00194      -0.0379      -0.0347
## 2 sa3_2016_sf.1~-0.00194      -0.0379      -0.0347
## 3 sa3_2016_sf.1~-0.00194      -0.0379      -0.0347
## 4 sa3_2016_sf.1~-0.00194      -0.0379      -0.0347
## 5 sa3_2016_sf.1~-0.00194      -0.0379      -0.0347
## 6 sa3_2016_sf.1~-0.00194      -0.0379      -0.0347
## 7 sa3_2016_sf.1~-0.00194      -0.0379      -0.0347
## 8 sa3_2016_sf.1~-0.00194      -0.0379      -0.0347
## 9 sa3_2016_sf.1~-0.00194      -0.0379      -0.0347
## 10 sa3_2016_sf.1~-0.00194      -0.0379      -0.0347
## 11 sa3_2016_sf.1~-0.00194      -0.0379      -0.0347
## 12 sa3_2016_sf.1~-0.00194      -0.0379      -0.0347
## 13 sa3_2016_sf.1~-0.00194      -0.0379      -0.0347
## 14 sa3_2016_sf.1~-0.00194      -0.0379      -0.0347
## 15 sa3_2016_sf.1~-0.00194      -0.0379      -0.0347
## 16 sa3_2016_sf.1~-0.00194      -0.0379      -0.0347
## 17 sa3_2016_sf.1~-0.00194      -0.0379      -0.0347
## 18 sa3_2016_sf.1~-0.00194      -0.0379      -0.0347
## 19 sa3_2016_sf.1~-0.00194      -0.0379      -0.0347
## # ... with 120 more variables: acgr_y2016_m_15_19 <dbl>,
## #   acgr_y2016_m_20_24 <dbl>, acgr_y2016_m_25_29 <dbl>, t0_20180701_f_19 <dbl>,
## #   t0_20180701_m_19 <dbl>, t0_20180701_f_20 <dbl>, t0_20180701_m_20 <dbl>,
## #   t0_20180701_f_21 <dbl>, t0_20180701_m_21 <dbl>, t0_20180701_f_22 <dbl>,
## #   t0_20180701_m_22 <dbl>, t0_20180701_f_23 <dbl>, t0_20180701_m_23 <dbl>,
## #   t0_20180701_f_24 <dbl>, t0_20180701_m_24 <dbl>, t0_20180701_f_25 <dbl>,
## #   t0_20180701_m_25 <dbl>, ti_20190701_f_19 <dbl>, ti_20190701_m_19 <dbl>,
## #   ti_20190701_f_20 <dbl>, ti_20190701_m_20 <dbl>, ti_20190701_f_21 <dbl>,
## #   ti_20190701_m_21 <dbl>, ti_20190701_f_22 <dbl>, ti_20190701_m_22 <dbl>,
## #   ti_20190701_f_23 <dbl>, ti_20190701_m_23 <dbl>, ti_20190701_f_24 <dbl>,
## #   ti_20190701_m_24 <dbl>, ti_20190701_f_25 <dbl>, ti_20190701_m_25 <dbl>,
## #   tx_20200301_f_19 <dbl>, tx_20200301_m_19 <dbl>, tx_20200301_f_20 <dbl>,
## #   tx_20200301_m_20 <dbl>, tx_20200301_f_21 <dbl>, tx_20200301_m_21 <dbl>,
## #   tx_20200301_f_22 <dbl>, tx_20200301_m_22 <dbl>, tx_20200301_f_23 <dbl>,
## #   tx_20200301_m_23 <dbl>, tx_20200301_f_24 <dbl>, tx_20200301_m_24 <dbl>,
## #   tx_20200301_f_25 <dbl>, tx_20200301_m_25 <dbl>, t0_20180701_f_t1 <dbl>,

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## #  tx_20200301_f_t1 <dbl>, t0_20180701_m_t1 <dbl>, tx_20200301_m_t1 <dbl>,
## #  t0_20180701_p_t1 <dbl>, tx_20200301_p_t1 <dbl>, delta_20200301_f_19 <dbl>,
## #  delta_20200301_m_19 <dbl>, delta_20200301_f_20 <dbl>,
## #  delta_20200301_m_20 <dbl>, delta_20200301_f_21 <dbl>,
## #  delta_20200301_m_21 <dbl>, delta_20200301_f_22 <dbl>,
## #  delta_20200301_m_22 <dbl>, delta_20200301_f_23 <dbl>,
## #  delta_20200301_m_23 <dbl>, delta_20200301_f_24 <dbl>,
## #  delta_20200301_m_24 <dbl>, delta_20200301_f_25 <dbl>,
## #  delta_20200301_m_25 <dbl>, delta_20200301_f_t1 <dbl>,
## #  delta_20200301_m_t1 <dbl>, delta_20200301_p_t1 <dbl>,
## #  t0_prev_any_affective_disorder_f_19 <dbl>,
## #  t0_prev_any_affective_disorder_m_19 <dbl>,
## #  t0_prev_any_affective_disorder_f_20 <dbl>,
## #  t0_prev_any_affective_disorder_m_20 <dbl>,
## #  t0_prev_any_affective_disorder_f_21 <dbl>,
## #  t0_prev_any_affective_disorder_m_21 <dbl>,
## #  t0_prev_any_affective_disorder_f_22 <dbl>,
## #  t0_prev_any_affective_disorder_m_22 <dbl>,
## #  t0_prev_any_affective_disorder_f_23 <dbl>,
## #  t0_prev_any_affective_disorder_m_23 <dbl>,
## #  t0_prev_any_affective_disorder_f_24 <dbl>,
## #  t0_prev_any_affective_disorder_m_24 <dbl>,
## #  t0_prev_any_affective_disorder_f_25 <dbl>,
## #  t0_prev_any_affective_disorder_m_25 <dbl>,
## #  tx_prev_any_affective_disorder_f_19 <dbl>,
## #  tx_prev_any_affective_disorder_m_19 <dbl>,
## #  tx_prev_any_affective_disorder_f_20 <dbl>,
## #  tx_prev_any_affective_disorder_m_20 <dbl>,
## #  tx_prev_any_affective_disorder_f_21 <dbl>,
## #  tx_prev_any_affective_disorder_m_21 <dbl>,
## #  tx_prev_any_affective_disorder_f_22 <dbl>,
## #  tx_prev_any_affective_disorder_m_22 <dbl>,
## #  tx_prev_any_affective_disorder_f_23 <dbl>,
## #  tx_prev_any_affective_disorder_m_23 <dbl>,
## #  tx_prev_any_affective_disorder_f_24 <dbl>,
## #  tx_prev_any_affective_disorder_m_24 <dbl>,
## #  tx_prev_any_affective_disorder_f_25 <dbl>,
## #  tx_prev_any_affective_disorder_m_25 <dbl>,
## #  t0_prev_any_affective_disorder_f_t1 <dbl>,
## #  tx_prev_any_affective_disorder_f_t1 <dbl>,
## #  t0_prev_any_affective_disorder_m_t1 <dbl>,
## #  tx_prev_any_affective_disorder_m_t1 <dbl>, ...
##
## $sim_results_ls[[7]]
## # A tibble: 19 x 124
##   pop_sp_unit_id acgr_y2016_f_15~ acgr_y2016_f_20~ acgr_y2016_f_25~
##   <chr>          <dbl>          <dbl>          <dbl>
## 1 sa3_2016_sf.1~ -0.00316      -0.0365      -0.0387
## 2 sa3_2016_sf.1~ -0.00316      -0.0365      -0.0387
## 3 sa3_2016_sf.1~ -0.00316      -0.0365      -0.0387
## 4 sa3_2016_sf.1~ -0.00316      -0.0365      -0.0387
## 5 sa3_2016_sf.1~ -0.00316      -0.0365      -0.0387
## 6 sa3_2016_sf.1~ -0.00316      -0.0365      -0.0387
## 7 sa3_2016_sf.1~ -0.00316      -0.0365      -0.0387

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##   8 sa3_2016_sf.1~      -0.00316      -0.0365      -0.0387
##   9 sa3_2016_sf.1~      -0.00316      -0.0365      -0.0387
##  10 sa3_2016_sf.1~      -0.00316      -0.0365      -0.0387
##  11 sa3_2016_sf.1~      -0.00316      -0.0365      -0.0387
##  12 sa3_2016_sf.1~      -0.00316      -0.0365      -0.0387
##  13 sa3_2016_sf.1~      -0.00316      -0.0365      -0.0387
##  14 sa3_2016_sf.1~      -0.00316      -0.0365      -0.0387
##  15 sa3_2016_sf.1~      -0.00316      -0.0365      -0.0387
##  16 sa3_2016_sf.1~      -0.00316      -0.0365      -0.0387
##  17 sa3_2016_sf.1~      -0.00316      -0.0365      -0.0387
##  18 sa3_2016_sf.1~      -0.00316      -0.0365      -0.0387
##  19 sa3_2016_sf.1~      -0.00316      -0.0365      -0.0387
## # ... with 120 more variables: acgr_y2016_m_15_19 <dbl>,
## #   acgr_y2016_m_20_24 <dbl>, acgr_y2016_m_25_29 <dbl>, t0_20180701_f_19 <dbl>,
## #   t0_20180701_m_19 <dbl>, t0_20180701_f_20 <dbl>, t0_20180701_m_20 <dbl>,
## #   t0_20180701_f_21 <dbl>, t0_20180701_m_21 <dbl>, t0_20180701_f_22 <dbl>,
## #   t0_20180701_m_22 <dbl>, t0_20180701_f_23 <dbl>, t0_20180701_m_23 <dbl>,
## #   t0_20180701_f_24 <dbl>, t0_20180701_m_24 <dbl>, t0_20180701_f_25 <dbl>,
## #   t0_20180701_m_25 <dbl>, ti_20190701_f_19 <dbl>, ti_20190701_m_19 <dbl>,
## #   ti_20190701_f_20 <dbl>, ti_20190701_m_20 <dbl>, ti_20190701_f_21 <dbl>,
## #   ti_20190701_m_21 <dbl>, ti_20190701_f_22 <dbl>, ti_20190701_m_22 <dbl>,
## #   ti_20190701_f_23 <dbl>, ti_20190701_m_23 <dbl>, ti_20190701_f_24 <dbl>,
## #   ti_20190701_m_24 <dbl>, ti_20190701_f_25 <dbl>, ti_20190701_m_25 <dbl>,
## #   tx_20200301_f_19 <dbl>, tx_20200301_m_19 <dbl>, tx_20200301_f_20 <dbl>,
## #   tx_20200301_m_20 <dbl>, tx_20200301_f_21 <dbl>, tx_20200301_m_21 <dbl>,
## #   tx_20200301_f_22 <dbl>, tx_20200301_m_22 <dbl>, tx_20200301_f_23 <dbl>,
## #   tx_20200301_m_23 <dbl>, tx_20200301_f_24 <dbl>, tx_20200301_m_24 <dbl>,
## #   tx_20200301_f_25 <dbl>, tx_20200301_m_25 <dbl>, t0_20180701_f_t1 <dbl>,
## #   tx_20200301_f_t1 <dbl>, t0_20180701_m_t1 <dbl>, tx_20200301_m_t1 <dbl>,
## #   t0_20180701_p_t1 <dbl>, tx_20200301_p_t1 <dbl>, delta_20200301_f_19 <dbl>,
## #   delta_20200301_m_19 <dbl>, delta_20200301_f_20 <dbl>,
## #   delta_20200301_m_20 <dbl>, delta_20200301_f_21 <dbl>,
## #   delta_20200301_m_21 <dbl>, delta_20200301_f_22 <dbl>,
## #   delta_20200301_m_22 <dbl>, delta_20200301_f_23 <dbl>,
## #   delta_20200301_m_23 <dbl>, delta_20200301_f_24 <dbl>,
## #   delta_20200301_m_24 <dbl>, delta_20200301_f_25 <dbl>,
## #   delta_20200301_m_25 <dbl>, delta_20200301_f_t1 <dbl>,
## #   delta_20200301_m_t1 <dbl>, delta_20200301_p_t1 <dbl>,
## #   t0_prev_any_affective_disorder_f_19 <dbl>,
## #   t0_prev_any_affective_disorder_m_19 <dbl>,
## #   t0_prev_any_affective_disorder_f_20 <dbl>,
## #   t0_prev_any_affective_disorder_m_20 <dbl>,
## #   t0_prev_any_affective_disorder_f_21 <dbl>,
## #   t0_prev_any_affective_disorder_m_21 <dbl>,
## #   t0_prev_any_affective_disorder_f_22 <dbl>,
## #   t0_prev_any_affective_disorder_m_22 <dbl>,
## #   t0_prev_any_affective_disorder_f_23 <dbl>,
## #   t0_prev_any_affective_disorder_m_23 <dbl>,
## #   t0_prev_any_affective_disorder_f_24 <dbl>,
## #   t0_prev_any_affective_disorder_m_24 <dbl>,
## #   t0_prev_any_affective_disorder_f_25 <dbl>,
## #   t0_prev_any_affective_disorder_m_25 <dbl>,
## #   tx_prev_any_affective_disorder_f_19 <dbl>,
## #   tx_prev_any_affective_disorder_m_19 <dbl>,

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## #  tx_prev_any_affective_disorder_f_20 <dbl>,
## #  tx_prev_any_affective_disorder_m_20 <dbl>,
## #  tx_prev_any_affective_disorder_f_21 <dbl>,
## #  tx_prev_any_affective_disorder_m_21 <dbl>,
## #  tx_prev_any_affective_disorder_f_22 <dbl>,
## #  tx_prev_any_affective_disorder_m_22 <dbl>,
## #  tx_prev_any_affective_disorder_f_23 <dbl>,
## #  tx_prev_any_affective_disorder_m_23 <dbl>,
## #  tx_prev_any_affective_disorder_f_24 <dbl>,
## #  tx_prev_any_affective_disorder_m_24 <dbl>,
## #  tx_prev_any_affective_disorder_f_25 <dbl>,
## #  tx_prev_any_affective_disorder_m_25 <dbl>,
## #  t0_prev_any_affective_disorder_f_tl <dbl>,
## #  tx_prev_any_affective_disorder_f_tl <dbl>,
## #  t0_prev_any_affective_disorder_m_tl <dbl>,
## #  tx_prev_any_affective_disorder_m_tl <dbl>, ...
##
## $sim_results_ls[[8]]
## # A tibble: 19 x 124
##   pop_sp_unit_id acgr_y2016_f_15~ acgr_y2016_f_20~ acgr_y2016_f_25~
##   <chr>          <dbl>          <dbl>          <dbl>
## 1 sa3_2016_sf.1~ -0.00163     -0.0365     -0.0318
## 2 sa3_2016_sf.1~ -0.00163     -0.0365     -0.0318
## 3 sa3_2016_sf.1~ -0.00163     -0.0365     -0.0318
## 4 sa3_2016_sf.1~ -0.00163     -0.0365     -0.0318
## 5 sa3_2016_sf.1~ -0.00163     -0.0365     -0.0318
## 6 sa3_2016_sf.1~ -0.00163     -0.0365     -0.0318
## 7 sa3_2016_sf.1~ -0.00163     -0.0365     -0.0318
## 8 sa3_2016_sf.1~ -0.00163     -0.0365     -0.0318
## 9 sa3_2016_sf.1~ -0.00163     -0.0365     -0.0318
## 10 sa3_2016_sf.1~ -0.00163     -0.0365     -0.0318
## 11 sa3_2016_sf.1~ -0.00163     -0.0365     -0.0318
## 12 sa3_2016_sf.1~ -0.00163     -0.0365     -0.0318
## 13 sa3_2016_sf.1~ -0.00163     -0.0365     -0.0318
## 14 sa3_2016_sf.1~ -0.00163     -0.0365     -0.0318
## 15 sa3_2016_sf.1~ -0.00163     -0.0365     -0.0318
## 16 sa3_2016_sf.1~ -0.00163     -0.0365     -0.0318
## 17 sa3_2016_sf.1~ -0.00163     -0.0365     -0.0318
## 18 sa3_2016_sf.1~ -0.00163     -0.0365     -0.0318
## 19 sa3_2016_sf.1~ -0.00163     -0.0365     -0.0318
## # ... with 120 more variables: acgr_y2016_m_15_19 <dbl>,
## #   acgr_y2016_m_20_24 <dbl>, acgr_y2016_m_25_29 <dbl>, t0_20180701_f_19 <dbl>,
## #   t0_20180701_m_19 <dbl>, t0_20180701_f_20 <dbl>, t0_20180701_m_20 <dbl>,
## #   t0_20180701_f_21 <dbl>, t0_20180701_m_21 <dbl>, t0_20180701_f_22 <dbl>,
## #   t0_20180701_m_22 <dbl>, t0_20180701_f_23 <dbl>, t0_20180701_m_23 <dbl>,
## #   t0_20180701_f_24 <dbl>, t0_20180701_m_24 <dbl>, t0_20180701_f_25 <dbl>,
## #   t0_20180701_m_25 <dbl>, ti_20190701_f_19 <dbl>, ti_20190701_m_19 <dbl>,
## #   ti_20190701_f_20 <dbl>, ti_20190701_m_20 <dbl>, ti_20190701_f_21 <dbl>,
## #   ti_20190701_m_21 <dbl>, ti_20190701_f_22 <dbl>, ti_20190701_m_22 <dbl>,
## #   ti_20190701_f_23 <dbl>, ti_20190701_m_23 <dbl>, ti_20190701_f_24 <dbl>,
## #   ti_20190701_m_24 <dbl>, ti_20190701_f_25 <dbl>, ti_20190701_m_25 <dbl>,
## #   tx_20200301_f_19 <dbl>, tx_20200301_m_19 <dbl>, tx_20200301_f_20 <dbl>,
## #   tx_20200301_m_20 <dbl>, tx_20200301_f_21 <dbl>, tx_20200301_m_21 <dbl>,
## #   tx_20200301_f_22 <dbl>, tx_20200301_m_22 <dbl>, tx_20200301_f_23 <dbl>,

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## # tx_20200301_m_23 <dbl>, tx_20200301_f_24 <dbl>, tx_20200301_m_24 <dbl>,
## # tx_20200301_f_25 <dbl>, tx_20200301_m_25 <dbl>, t0_20180701_f_tl <dbl>,
## # tx_20200301_f_tl <dbl>, t0_20180701_m_tl <dbl>, tx_20200301_m_tl <dbl>,
## # t0_20180701_p_tl <dbl>, tx_20200301_p_tl <dbl>, delta_20200301_f_19 <dbl>,
## # delta_20200301_m_19 <dbl>, delta_20200301_f_20 <dbl>,
## # delta_20200301_m_20 <dbl>, delta_20200301_f_21 <dbl>,
## # delta_20200301_m_21 <dbl>, delta_20200301_f_22 <dbl>,
## # delta_20200301_m_22 <dbl>, delta_20200301_f_23 <dbl>,
## # delta_20200301_m_23 <dbl>, delta_20200301_f_24 <dbl>,
## # delta_20200301_m_24 <dbl>, delta_20200301_f_25 <dbl>,
## # delta_20200301_m_25 <dbl>, delta_20200301_f_tl <dbl>,
## # delta_20200301_m_tl <dbl>, delta_20200301_p_tl <dbl>,
## # t0_prev_any_affective_disorder_f_19 <dbl>,
## # t0_prev_any_affective_disorder_m_19 <dbl>,
## # t0_prev_any_affective_disorder_f_20 <dbl>,
## # t0_prev_any_affective_disorder_m_20 <dbl>,
## # t0_prev_any_affective_disorder_f_21 <dbl>,
## # t0_prev_any_affective_disorder_m_21 <dbl>,
## # t0_prev_any_affective_disorder_f_22 <dbl>,
## # t0_prev_any_affective_disorder_m_22 <dbl>,
## # t0_prev_any_affective_disorder_f_23 <dbl>,
## # t0_prev_any_affective_disorder_m_23 <dbl>,
## # t0_prev_any_affective_disorder_f_24 <dbl>,
## # t0_prev_any_affective_disorder_m_24 <dbl>,
## # t0_prev_any_affective_disorder_f_25 <dbl>,
## # t0_prev_any_affective_disorder_m_25 <dbl>,
## # tx_prev_any_affective_disorder_f_19 <dbl>,
## # tx_prev_any_affective_disorder_m_19 <dbl>,
## # tx_prev_any_affective_disorder_f_20 <dbl>,
## # tx_prev_any_affective_disorder_m_20 <dbl>,
## # tx_prev_any_affective_disorder_f_21 <dbl>,
## # tx_prev_any_affective_disorder_m_21 <dbl>,
## # tx_prev_any_affective_disorder_f_22 <dbl>,
## # tx_prev_any_affective_disorder_m_22 <dbl>,
## # tx_prev_any_affective_disorder_f_23 <dbl>,
## # tx_prev_any_affective_disorder_m_23 <dbl>,
## # tx_prev_any_affective_disorder_f_24 <dbl>,
## # tx_prev_any_affective_disorder_m_24 <dbl>,
## # tx_prev_any_affective_disorder_f_25 <dbl>,
## # tx_prev_any_affective_disorder_m_25 <dbl>,
## # t0_prev_any_affective_disorder_f_tl <dbl>,
## # tx_prev_any_affective_disorder_f_tl <dbl>,
## # t0_prev_any_affective_disorder_m_tl <dbl>,
## # tx_prev_any_affective_disorder_m_tl <dbl>, ...
##
## $sim_results_ls[[9]]
## # A tibble: 19 x 124
##   pop_sp_unit_id acgr_y2016_f_15~ acgr_y2016_f_20~ acgr_y2016_f_25~
##   <chr>           <dbl>           <dbl>           <dbl>
## 1 sa3_2016_sf.1~ -0.00133        -0.0376        -0.0346
## 2 sa3_2016_sf.1~ -0.00133        -0.0376        -0.0346
## 3 sa3_2016_sf.1~ -0.00133        -0.0376        -0.0346
## 4 sa3_2016_sf.1~ -0.00133        -0.0376        -0.0346
## 5 sa3_2016_sf.1~ -0.00133        -0.0376        -0.0346

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##   6 sa3_2016_sf.1~      -0.00133      -0.0376      -0.0346
##   7 sa3_2016_sf.1~      -0.00133      -0.0376      -0.0346
##   8 sa3_2016_sf.1~      -0.00133      -0.0376      -0.0346
##   9 sa3_2016_sf.1~      -0.00133      -0.0376      -0.0346
##  10 sa3_2016_sf.1~      -0.00133      -0.0376      -0.0346
##  11 sa3_2016_sf.1~      -0.00133      -0.0376      -0.0346
##  12 sa3_2016_sf.1~      -0.00133      -0.0376      -0.0346
##  13 sa3_2016_sf.1~      -0.00133      -0.0376      -0.0346
##  14 sa3_2016_sf.1~      -0.00133      -0.0376      -0.0346
##  15 sa3_2016_sf.1~      -0.00133      -0.0376      -0.0346
##  16 sa3_2016_sf.1~      -0.00133      -0.0376      -0.0346
##  17 sa3_2016_sf.1~      -0.00133      -0.0376      -0.0346
##  18 sa3_2016_sf.1~      -0.00133      -0.0376      -0.0346
##  19 sa3_2016_sf.1~      -0.00133      -0.0376      -0.0346
## # ... with 120 more variables: acgr_y2016_m_15_19 <dbl>,
## #   acgr_y2016_m_20_24 <dbl>, acgr_y2016_m_25_29 <dbl>, t0_20180701_f_19 <dbl>,
## #   t0_20180701_m_19 <dbl>, t0_20180701_f_20 <dbl>, t0_20180701_m_20 <dbl>,
## #   t0_20180701_f_21 <dbl>, t0_20180701_m_21 <dbl>, t0_20180701_f_22 <dbl>,
## #   t0_20180701_m_22 <dbl>, t0_20180701_f_23 <dbl>, t0_20180701_m_23 <dbl>,
## #   t0_20180701_f_24 <dbl>, t0_20180701_m_24 <dbl>, t0_20180701_f_25 <dbl>,
## #   t0_20180701_m_25 <dbl>, ti_20190701_f_19 <dbl>, ti_20190701_m_19 <dbl>,
## #   ti_20190701_f_20 <dbl>, ti_20190701_m_20 <dbl>, ti_20190701_f_21 <dbl>,
## #   ti_20190701_m_21 <dbl>, ti_20190701_f_22 <dbl>, ti_20190701_m_22 <dbl>,
## #   ti_20190701_f_23 <dbl>, ti_20190701_m_23 <dbl>, ti_20190701_f_24 <dbl>,
## #   ti_20190701_m_24 <dbl>, ti_20190701_f_25 <dbl>, ti_20190701_m_25 <dbl>,
## #   tx_20200301_f_19 <dbl>, tx_20200301_m_19 <dbl>, tx_20200301_f_20 <dbl>,
## #   tx_20200301_m_20 <dbl>, tx_20200301_f_21 <dbl>, tx_20200301_m_21 <dbl>,
## #   tx_20200301_f_22 <dbl>, tx_20200301_m_22 <dbl>, tx_20200301_f_23 <dbl>,
## #   tx_20200301_m_23 <dbl>, tx_20200301_f_24 <dbl>, tx_20200301_m_24 <dbl>,
## #   tx_20200301_f_25 <dbl>, tx_20200301_m_25 <dbl>, t0_20180701_f_t1 <dbl>,
## #   tx_20200301_f_t1 <dbl>, t0_20180701_m_t1 <dbl>, tx_20200301_m_t1 <dbl>,
## #   t0_20180701_p_t1 <dbl>, tx_20200301_p_t1 <dbl>, delta_20200301_f_19 <dbl>,
## #   delta_20200301_m_19 <dbl>, delta_20200301_f_20 <dbl>,
## #   delta_20200301_m_20 <dbl>, delta_20200301_f_21 <dbl>,
## #   delta_20200301_m_21 <dbl>, delta_20200301_f_22 <dbl>,
## #   delta_20200301_m_22 <dbl>, delta_20200301_f_23 <dbl>,
## #   delta_20200301_m_23 <dbl>, delta_20200301_f_24 <dbl>,
## #   delta_20200301_m_24 <dbl>, delta_20200301_f_25 <dbl>,
## #   delta_20200301_m_25 <dbl>, delta_20200301_f_t1 <dbl>,
## #   delta_20200301_m_t1 <dbl>, delta_20200301_p_t1 <dbl>,
## #   t0_prev_any_affective_disorder_f_19 <dbl>,
## #   t0_prev_any_affective_disorder_m_19 <dbl>,
## #   t0_prev_any_affective_disorder_f_20 <dbl>,
## #   t0_prev_any_affective_disorder_m_20 <dbl>,
## #   t0_prev_any_affective_disorder_f_21 <dbl>,
## #   t0_prev_any_affective_disorder_m_21 <dbl>,
## #   t0_prev_any_affective_disorder_f_22 <dbl>,
## #   t0_prev_any_affective_disorder_m_22 <dbl>,
## #   t0_prev_any_affective_disorder_f_23 <dbl>,
## #   t0_prev_any_affective_disorder_m_23 <dbl>,
## #   t0_prev_any_affective_disorder_f_24 <dbl>,
## #   t0_prev_any_affective_disorder_m_24 <dbl>,
## #   t0_prev_any_affective_disorder_f_25 <dbl>,
## #   t0_prev_any_affective_disorder_m_25 <dbl>,

```

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## #  tx_prev_any_affective_disorder_f_19 <dbl>,
## #  tx_prev_any_affective_disorder_m_19 <dbl>,
## #  tx_prev_any_affective_disorder_f_20 <dbl>,
## #  tx_prev_any_affective_disorder_m_20 <dbl>,
## #  tx_prev_any_affective_disorder_f_21 <dbl>,
## #  tx_prev_any_affective_disorder_m_21 <dbl>,
## #  tx_prev_any_affective_disorder_f_22 <dbl>,
## #  tx_prev_any_affective_disorder_m_22 <dbl>,
## #  tx_prev_any_affective_disorder_f_23 <dbl>,
## #  tx_prev_any_affective_disorder_m_23 <dbl>,
## #  tx_prev_any_affective_disorder_f_24 <dbl>,
## #  tx_prev_any_affective_disorder_m_24 <dbl>,
## #  tx_prev_any_affective_disorder_f_25 <dbl>,
## #  tx_prev_any_affective_disorder_m_25 <dbl>,
## #  t0_prev_any_affective_disorder_f_t1 <dbl>,
## #  tx_prev_any_affective_disorder_f_t1 <dbl>,
## #  t0_prev_any_affective_disorder_m_t1 <dbl>,
## #  tx_prev_any_affective_disorder_m_t1 <dbl>, ...
##
## $sim_results_ls[[10]]
## # A tibble: 19 x 124
##   pop_sp_unit_id acgr_y2016_f_15~ acgr_y2016_f_20~ acgr_y2016_f_25~
##   <chr>           <dbl>          <dbl>          <dbl>
## 1 sa3_2016_sf.1~ -0.00192       -0.0346        -0.0373
## 2 sa3_2016_sf.1~ -0.00192       -0.0346        -0.0373
## 3 sa3_2016_sf.1~ -0.00192       -0.0346        -0.0373
## 4 sa3_2016_sf.1~ -0.00192       -0.0346        -0.0373
## 5 sa3_2016_sf.1~ -0.00192       -0.0346        -0.0373
## 6 sa3_2016_sf.1~ -0.00192       -0.0346        -0.0373
## 7 sa3_2016_sf.1~ -0.00192       -0.0346        -0.0373
## 8 sa3_2016_sf.1~ -0.00192       -0.0346        -0.0373
## 9 sa3_2016_sf.1~ -0.00192       -0.0346        -0.0373
## 10 sa3_2016_sf.1~ -0.00192      -0.0346        -0.0373
## 11 sa3_2016_sf.1~ -0.00192      -0.0346        -0.0373
## 12 sa3_2016_sf.1~ -0.00192      -0.0346        -0.0373
## 13 sa3_2016_sf.1~ -0.00192      -0.0346        -0.0373
## 14 sa3_2016_sf.1~ -0.00192      -0.0346        -0.0373
## 15 sa3_2016_sf.1~ -0.00192      -0.0346        -0.0373
## 16 sa3_2016_sf.1~ -0.00192      -0.0346        -0.0373
## 17 sa3_2016_sf.1~ -0.00192      -0.0346        -0.0373
## 18 sa3_2016_sf.1~ -0.00192      -0.0346        -0.0373
## 19 sa3_2016_sf.1~ -0.00192      -0.0346        -0.0373
## # ... with 120 more variables: acgr_y2016_m_15_19 <dbl>,
## #   acgr_y2016_m_20_24 <dbl>, acgr_y2016_m_25_29 <dbl>, t0_20180701_f_19 <dbl>,
## #   t0_20180701_m_19 <dbl>, t0_20180701_f_20 <dbl>, t0_20180701_m_20 <dbl>,
## #   t0_20180701_f_21 <dbl>, t0_20180701_m_21 <dbl>, t0_20180701_f_22 <dbl>,
## #   t0_20180701_m_22 <dbl>, t0_20180701_f_23 <dbl>, t0_20180701_m_23 <dbl>,
## #   t0_20180701_f_24 <dbl>, t0_20180701_m_24 <dbl>, t0_20180701_f_25 <dbl>,
## #   t0_20180701_m_25 <dbl>, ti_20190701_f_19 <dbl>, ti_20190701_m_19 <dbl>,
## #   ti_20190701_f_20 <dbl>, ti_20190701_m_20 <dbl>, ti_20190701_f_21 <dbl>,
## #   ti_20190701_m_21 <dbl>, ti_20190701_f_22 <dbl>, ti_20190701_m_22 <dbl>,
## #   ti_20190701_f_23 <dbl>, ti_20190701_m_23 <dbl>, ti_20190701_f_24 <dbl>,
## #   ti_20190701_m_24 <dbl>, ti_20190701_f_25 <dbl>, ti_20190701_m_25 <dbl>,
## #   tx_20200301_f_19 <dbl>, tx_20200301_m_19 <dbl>, tx_20200301_f_20 <dbl>,

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## # tx_20200301_m_20 <dbl>, tx_20200301_f_21 <dbl>, tx_20200301_m_21 <dbl>,
## # tx_20200301_f_22 <dbl>, tx_20200301_m_22 <dbl>, tx_20200301_f_23 <dbl>,
## # tx_20200301_m_23 <dbl>, tx_20200301_f_24 <dbl>, tx_20200301_m_24 <dbl>,
## # tx_20200301_f_25 <dbl>, tx_20200301_m_25 <dbl>, t0_20180701_f_tl <dbl>,
## # tx_20200301_f_tl <dbl>, t0_20180701_m_tl <dbl>, tx_20200301_m_tl <dbl>,
## # t0_20180701_p_tl <dbl>, tx_20200301_p_tl <dbl>, delta_20200301_f_19 <dbl>,
## # delta_20200301_m_19 <dbl>, delta_20200301_f_20 <dbl>,
## # delta_20200301_m_20 <dbl>, delta_20200301_f_21 <dbl>,
## # delta_20200301_m_21 <dbl>, delta_20200301_f_22 <dbl>,
## # delta_20200301_m_22 <dbl>, delta_20200301_f_23 <dbl>,
## # delta_20200301_m_23 <dbl>, delta_20200301_f_24 <dbl>,
## # delta_20200301_m_24 <dbl>, delta_20200301_f_25 <dbl>,
## # delta_20200301_m_25 <dbl>, delta_20200301_f_tl <dbl>,
## # delta_20200301_m_tl <dbl>, delta_20200301_p_tl <dbl>,
## # t0_prev_any_affective_disorder_f_19 <dbl>,
## # t0_prev_any_affective_disorder_m_19 <dbl>,
## # t0_prev_any_affective_disorder_f_20 <dbl>,
## # t0_prev_any_affective_disorder_m_20 <dbl>,
## # t0_prev_any_affective_disorder_f_21 <dbl>,
## # t0_prev_any_affective_disorder_m_21 <dbl>,
## # t0_prev_any_affective_disorder_f_22 <dbl>,
## # t0_prev_any_affective_disorder_m_22 <dbl>,
## # t0_prev_any_affective_disorder_f_23 <dbl>,
## # t0_prev_any_affective_disorder_m_23 <dbl>,
## # t0_prev_any_affective_disorder_f_24 <dbl>,
## # t0_prev_any_affective_disorder_m_24 <dbl>,
## # t0_prev_any_affective_disorder_f_25 <dbl>,
## # t0_prev_any_affective_disorder_m_25 <dbl>,
## # tx_prev_any_affective_disorder_f_19 <dbl>,
## # tx_prev_any_affective_disorder_m_19 <dbl>,
## # tx_prev_any_affective_disorder_f_20 <dbl>,
## # tx_prev_any_affective_disorder_m_20 <dbl>,
## # tx_prev_any_affective_disorder_f_21 <dbl>,
## # tx_prev_any_affective_disorder_m_21 <dbl>,
## # tx_prev_any_affective_disorder_f_22 <dbl>,
## # tx_prev_any_affective_disorder_m_22 <dbl>,
## # tx_prev_any_affective_disorder_f_23 <dbl>,
## # tx_prev_any_affective_disorder_m_23 <dbl>,
## # tx_prev_any_affective_disorder_f_24 <dbl>,
## # tx_prev_any_affective_disorder_m_24 <dbl>,
## # tx_prev_any_affective_disorder_f_25 <dbl>,
## # tx_prev_any_affective_disorder_m_25 <dbl>,
## # t0_prev_any_affective_disorder_f_tl <dbl>,
## # tx_prev_any_affective_disorder_f_tl <dbl>,
## # t0_prev_any_affective_disorder_m_tl <dbl>,
## # tx_prev_any_affective_disorder_m_tl <dbl>, ...
##
##
## $start_year_dbl
## [1] 2018
##
## $tfd_stat_chr
## [1] "Annual Prevalence of Any Affective Disorder"
##

```

```
## $tfd_stat_rate_chr
## [1] "Prevalence"
##
## $tfd_end_date_chr
## [1] "01 March 2020"
##
## $tfd_start_date_chr
## [1] "01 July 2018"
##
## $pdf_output_lgl
## [1] FALSE
##
## $y0_prediction_lgl
## [1] TRUE
```