Source: Targetted Populations

```
library(tidyverse)
library(readxl)
library(knitr)
library(zoo)
library(scales)
library(gt)
options(knitr.kable.NA = '')
```

Targetted Population by Country

```
t_1 <- read_excel("sources/2021/malaria-consortium-2021-table-01.xlsx",
                  sheet = "Sheet1", n_max = 8) |>
  separate_wider_delim(cols = 1,
                       delim = "(",
                       too_many = "drop",
                       names = "country") |>
  separate_wider_delim(cols = 3,
                       delim = "(",
                       too_many = "drop",
                       names = "target_pop") |>
  select(country, target_pop) |>
  mutate(target_pop = as.numeric(gsub(",","",target_pop)))

t_1 |> gt()
```

country	target_pop
Burkina Faso	2021753
Chad	1080566
Mozambique	114276
Nigeria	8399151

Togo	489389
Uganda	85870
Program	12191005

Nigeria

This is using the target population from Nasarawa[2] row.

> The target population for Nasarawa was overestimated in 2021. The target population for Nasarawa was revised downwards after cycle 2 and administrative coverage re-estimated.
>
> –Malaria Consortium, 2021 SMC coverage report, Burkina Faso, Chad, Mozambique, Nigeria, Togo, and Uganda. Pg. 31

If we changed this to the 952,480 target population, which was the original estimate, then the total target population for Nigeria would match that reported in Table 1, Pg. 11 (8,399,151):

$$8,041,804 + (952,480 - 595,133) = 8,399,151$$

We are using the updated figure, because it is more accurate.

```
t_8 = read_excel("sources/2021/malaria-consortium-2021-table-08.xlsx",
                 sheet = "Sheet1", col_names = FALSE,
                 skip = 3, n_max = 28) |>
  select(1:4) |>
  rename(country = 1, state = 2, age_group = 3, target_pop = 4) |>
  mutate(country = na.locf(country),
         state = na.locf(state)) |>
  filter(age_group == '3-59 months') |>
  select(-age_group) |>
  mutate(state = case_when(state == 'Nasarawa2' ~ 'Nasarawa',
                           TRUE ~ state)) |>
  suppressMessages()

t_8 |> gt()
```

country	state	target_pop
Nigeria	Kogi	384155
Nigeria	Nasarawa1	952480

Nigeria	Nasarawa	595133
Nigeria	Plateau	787803
Nigeria	Bauchi	1794778
Nigeria	Borno	2051770
Nigeria	Kebbi	1230326
Nigeria	Sokoto	1197839
Nigeria	Total	8041805

Save the data

```
save(list = c('t_1', 't_8'), file="data/2021/target_populations.R")
```