

Use of Institute Health Methods and Evaluation (IHME) data on ESPEN

Step 1: Access the analytic files

The Expanded Special Project for Elimination of Neglected Tropical Diseases (ESPEN) provides an analytic file that determines high/low access to improved water and improved sanitation, with 'low' defined as implementation units (IUs) with access to improved water below the national median. Likewise, the national median access to improved sanitation is calculated and IUs with access below the national median are categorized as low. The high/low value is combined with soil-transmitted helminthiasis (STH) and schistosomiasis (SCH) endemicity data to create a cross-tabulation of IUs with high/low access broken down across the disease prevalence categories.

ESPEN EXPANDED SPECIAL PROJECT FOR ELIMINATION OF NEGLECTED TROPICAL DISEASES

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Cameroon

OVERVIEW LF ONC LOA SCH STH TH **WASH**

WASH and neglected tropical diseases

WaSH & Worm overlays WaSH & Trachoma overlays Maps Data

2018

WaSH and STH overlay

HOW TO USE ?

○ Access to Water & Sanitation ● Access to Water

● Access to Sanitation

Cameroon – WaSH and Soil-transmitted helminthiasis overlay map (2018)

- Moderate prevalence | High water | High sanitation
- Moderate prevalence | Low water | High sanitation
- Moderate prevalence | High water | Low sanitation
- Moderate prevalence | Low water | Low sanitation
- High prevalence | High water | High sanitation
- High prevalence | Low water | High sanitation
- High prevalence | High water | Low sanitation
- High prevalence | Low water | Low sanitation
- PC not required or status unknown

PC not required or status unknown includes areas classified as low endemicity, non-endemic, endemicity not known or no data available.

Low and high water indicates IUs that have lower or higher than the national median access to improved water (66%), based on IHME models

Low and high sanitation indicates IUs that have lower or higher than the national median access to improved sanitation (46%), based on IHME models

DOWNLOAD WASH STH DATA

WaSH and Schistosomiasis overlay

HOW TO USE ?

○ Access to Water & Sanitation ● Access to Water

● Access to Sanitation

Cameroon – WaSH and Schistosomiasis overlay map (2018)

- Moderate prevalence | High water | High sanitation
- Moderate prevalence | Low water | High sanitation
- Moderate prevalence | High water | Low sanitation
- Moderate prevalence | Low water | Low sanitation
- High prevalence | High water | High sanitation
- High prevalence | Low water | High sanitation
- High prevalence | High water | Low sanitation
- High prevalence | Low water | Low sanitation
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Low and high water indicates IUs that have lower or higher than the national median access to improved water (66%), based on IHME models

Low and high sanitation indicates IUs that have lower or higher than the national median access to improved sanitation (46%), based on IHME models

DOWNLOAD WASH SCH DATA

Step 2: Data in the analytic files

The ESPEN WASH files will provide the STH and SCH endemicity for the most current year of data, along with the high/low status of access to improved water and access to improved sanitation. You can also find the national median for both improved access to water and improved access to sanitation along with the raw access percentage of household access within the IU.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
	ADMINISO2	IU_CODE	IUS_NAME	Year	STH_Endemicity	STH_Endemicity_ID	SCH_Endemicity	SCH_Endemicity_ID	High_Low_Water	High_Low_Sanitation	Country_Median_IW	Country_Median_IS	sani_hh	water_hh
1	CM	CMR0081907430	AWAE	2018	Moderate prevalence (20%-49%)	7	Non-endemic	0	1	1	0.66	0.46	52%	75%
2	CM	CMR0081907431	AYOS	2018	Moderate prevalence (20%-49%)	7	Moderate prevalence (10%-49%)	9	1	1	0.66	0.46	50%	73%
3	CM	CMR0081907432	BAFIA	2018	Moderate prevalence (20%-49%)	7	Moderate prevalence (10%-49%)	9	1	1	0.66	0.46	50%	71%
4	CM	CMR0081907433	BIYEM ASSI	2018	Moderate prevalence (20%-49%)	7	Low prevalence (less than 10%)	10	1	1	0.66	0.46	75%	95%
5	CM	CMR0081907434	CITE VERTE	2018	Moderate prevalence (20%-49%)	7	Moderate prevalence (10%-49%)	9	1	1	0.66	0.46	58%	99%
6	CM	CMR0081907435	DIOUNGOLO	2018	Moderate prevalence (20%-49%)	7	Moderate prevalence (10%-49%)	9	1	1	0.66	0.46	72%	92%
7	CM	CMR0081907436	EBERDA	2018	Moderate prevalence (20%-49%)	7	Non-endemic	0	1	1	0.66	0.46	55%	75%
8	CM	CMR0081907437	EFOULAN	2018	Moderate prevalence (20%-49%)	7	Moderate prevalence (10%-49%)	9	1	1	0.66	0.46	59%	72%
9	CM	CMR0081907439	ESEKA	2018	Moderate prevalence (20%-49%)	7	Non-endemic	0	1	1	0.66	0.46	54%	72%
10	CM	CMR0081907440	ESSE	2018	Moderate prevalence (20%-49%)	7	Non-endemic	0	1	1	0.66	0.46	50%	74%
11	CM	CMR0081907442	MBALMAYO	2018	Moderate prevalence (20%-49%)	7	Moderate prevalence (10%-49%)	9	1	1	0.66	0.46	51%	74%
12	CM	CMR0081907444	MBANKOMO	2018	Moderate prevalence (20%-49%)	7	Moderate prevalence (10%-49%)	9	1	1	0.66	0.46	53%	78%
13	CM	CMR0081907445	MFOU	2018	Moderate prevalence (20%-49%)	7	Non-endemic	0	1	1	0.66	0.46	47%	71%
14	CM	CMR0081907446	NONATELE	2018	Moderate prevalence (20%-49%)	7	Non-endemic	0	1	1	0.66	0.46	54%	86%
15	CM	CMR0081907448	NDIKINIMEKI	2018	Moderate prevalence (20%-49%)	7	High prevalence (50% and above)	6	1	1	0.66	0.46	50%	76%

Step 3: Determine the coding for disease endemicity status

Now that you have the WASH and NTD analytic file from ESPEN, you will need to create the cross-tabulation tables to show the number of IUs by access to improved water or access to improved sanitation and STH or SCH disease endemicity. To do this, you will first have to determine how disease endemicity is coded in this dataset. To do this, use the Excel function Index/Match. You will be working with columns E and F for STH and G and H for SCH.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
	ADMINISO2	IU_CODE	IUS_NAME	Year	STH_Endemicity	STH_Endemicity_ID	SCH_Endemicity	SCH_Endemicity_ID	High_Low_Water	High_Low_Sanitation	Country_Median_IW	Country_Median_IS	sani_hh	water_hh	value		
1	NG	NGA03775	Aba South	2018	Moderate prevalence (20%-49%)	7	Non-endemic	0	1	1	0.61	0.38	60%	98%	1		
2	NG	NGA03775	Ikwo	2018	Moderate prevalence (20%-49%)	7	Low prevalence (less than 10%)	10	1	1	0.61	0.38	75%	80%	1		
3	NG	NGA03775	Isiala-Ngwa	2018	Moderate prevalence (20%-49%)	7	Non-endemic	0	1	1	0.61	0.38	79%	100%	1		
4	NG	NGA03775	Isiala-Ngwa	2018	Moderate prevalence (20%-49%)	7	Non-endemic	0	1	1	0.61	0.38	65%	97%	1		
5	NG	NGA03775	Obio-Akpa	2018	Moderate prevalence (20%-49%)	7	Non-endemic	0	1	1	0.61	0.38	65%	94%	1		
6	NG	NGA03775	Ukwa East	2018	Moderate prevalence (20%-49%)	7	Non-endemic	0	1	1	0.61	0.38	56%	71%	1		
7	NG	NGA03775	Ukwa West	2018	Moderate prevalence (20%-49%)	7	Non-endemic	0	1	1	0.61	0.38	59%	99%	1		
8	NG	NGA03775	Umuahia	2018	Moderate prevalence (20%-49%)	7	Low prevalence (less than 10%)	10	1	1	0.61	0.38	49%	76%	1		
9	NG	NGA03775	Umuahia	2018	Moderate prevalence (20%-49%)	7	Low prevalence (less than 10%)	10	1	1	0.61	0.38	61%	91%	1		
10	NG	NGA03775	Umuahia	2018	Moderate prevalence (20%-49%)	7	Low prevalence (less than 10%)	10	1	1	0.61	0.38	52%	96%	1		
11	NG	NGA03777	Essien Udi	2018	Moderate prevalence (20%-49%)	7	Non-endemic	0	1	1	0.61	0.38	44%	85%	1		
12	NG	NGA03777	Etim Ekpo	2018	Moderate prevalence (20%-49%)	7	Non-endemic	0	1	1	0.61	0.38	59%	90%	1		
13	NG	NGA03777	Ika	2018	Moderate prevalence (20%-49%)	7	Non-endemic	0	1	1	0.61	0.38	57%	82%	1		
14	NG	NGA03777	Ikot Ekpeme	2018	Moderate prevalence (20%-49%)	7	Non-endemic	0	1	1	0.61	0.38	80%	82%	1		
15	NG	NGA03777	Nsit Ibom	2018	Moderate prevalence (20%-49%)	7	Non-endemic	0	1	1	0.61	0.38	62%	67%	1		
16	NG	NGA03777	Ukanafun	2018	Moderate prevalence (20%-49%)	7	Non-endemic	0	1	1	0.61	0.38	67%	72%	1		
17	NG	NGA03777	Uyo	2018	Moderate prevalence (20%-49%)	7	Non-endemic	0	1	1	0.61	0.38	72%	82%	1		
18	NG	NGA03777	Aguata	2018	Moderate prevalence (20%-49%)	7	Non-endemic	0	1	1	0.61	0.38	72%	92%	1		

WASH and Health working together
A 'HOW-TO' GUIDE FOR NEGLECTED TROPICAL DISEASE PROGRAMMES

[illegible]

		=COUNTIFS(\$D\$2:\$D\$75,\$U11:\$U52,\$F\$75:\$W59)																						
		F	G	H	I	J	K	L	M	N	O	P	Q	R	S			T	U	V	W	X	Y	Z
		STH_End	SCN_End	High_Low	Water	High_Low_Country	Low_Country	Median	IS_sang	High	water	High	value			STH_Endemicity	Coding							
ence (20%	7	Non-ende	0	1	1	0.61	0.38	65%	78%	1					STH_Endemicity	7								
ence (20%	7	Low prev	10	1	1	0.61	0.38	75%	80%	1					High prevalence (20%-49%)	7								
ence (20%	7	Non-ende	0	1	1	0.61	0.38	79%	100%	1					Moderate prevalence (50% and above)	6								
ence (20%	7	Non-ende	0	1	1	0.61	0.38	65%	94%	1					Low prevalence (less than 20%)	8								
ence (20%	7	Non-ende	0	1	1	0.61	0.38	65%	94%	1					Non-endemic	0								
ence (20%	7	Non-ende	0	1	1	0.61	0.38	56%	71%	1					STH_Endemicity									
ence (20%	7	Non-ende	0	1	1	0.61	0.38	59%	99%	1					High prevalence (30% and above)									
ence (20%	7	Low prev	10	1	1	0.61	0.38	49%	76%	1					Moderate prevalence (20%-49%)									
ence (20%	7	Low prev	10	1	1	0.61	0.38	61%	91%	1					Low prevalence (less than 20%)									
ence (20%	7	Low prev	10	1	1	0.61	0.38	52%	95%	1					Non-endemic									
ence (20%	7	Non-ende	0	1	1	0.61	0.38	44%	85%	1					High_Low_Water	Low								
ence (20%	7	Non-ende	0	1	1	0.61	0.38	59%	90%	1					High	High	0	51	122	199	8	12	0	
															=COUNTIFS(\$D\$2:\$D\$75,\$U11:\$U52,\$F\$75:\$W59)									
															=COUNTIFS(criteria1,criteria1[criteria_range],criteria2[criteria_range],criteria3[criteria_range],...)									

Step 5: Use the data


As shown in the below table and chart, 51 IUs have both low access to improved water (defined as below the national median value) and high STH endemicity. All IUs in the low access row could be prioritized. However, if resources are limited, disease endemicity could provide an additional input into determination of priority IUs to increase access to improved water.



Using the Country Health Information Platform (CHIP)


All CHIP country dashboards are open access and available from the individual country page on ESPEN or from the CHIP page on ESPEN.

ESPEN country page – Kenya



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National summary statistics for 2021

Endemic NTDs requiring PC	NTDs targeted with PC
Lymphatic filariasis STH Schistosomiasis Trachoma	Trachoma

Demographics

290	53,559,557	6,641,386	14,728,873	30,528,949
Number of implementation units (IUs)	Total Population	Total PreSAC Population	Total SAC Population	Total Adult Population

Programme status *

42,665,693 people	228 IUs	11,990,978 people	136 IUs	0 people	0 IUs
Population living in IUs with endemicity unknown for at least one PC-NTD		Population requiring PC for at least one PC-NTD		Population living in IUs that have stopped PC for at least one PC-NTD	

Delivery of PC in 2021 *

0 people	0 IUs	0 people	0 IUs	0 IUs (<1% of all endemic IUs)
Population targeted with PC for at least one NTD		Population treated with PC for at least one NTD		IUs achieving effective coverage for all NTDs requiring PC

Reporting

Most recent approved JRF	Most recent approved JRSM
2020	2022

*These statistics exclude trachoma, as data are currently reporting using alternative implementation unit information, making integration unfeasible

Looking forwards

Forecast activities in alignment with the 2021-2030 WHO NTD Roadmap. See here for further [detail on assumptions](#)

71,884,553 treatments to be delivered	53,420,703 treatments to be delivered	108,051,754 treatments to be delivered
415 IUs to be surveyed	159 IUs to be surveyed	324 IUs to be surveyed
2020 to 2022	2023 to 2025	2026 to 2030

For further details of ESPEN forecasts by disease, please refer to the 'Forecast dashboard' under each disease tab.



Kenya, on the east coast of Africa, is endemic for LF, schistosomiasis, STH and trachoma. The Ministry of Health implements a Strategic Plan for control of NTDs through the National NTD control pro...

EXPAND +

DATA SOURCE

Unless otherwise stated, all programmatic and epidemiological data underlying these dashboards are provided by countries to ESPEN through WHO reporting processes, including via the PC Joint Application Package. All reasonable precautions have been taken to verify this information.

COUNTRY HEALTH INFORMATION PLATFORM

Access the CHIP country dashboard.

[View dashboard](#)

KEY RESOURCES

 PDF | 3.51 MB
Kenya NTD Master Plan (2016-2020)

 PDF | 1.73 MB
Kenya Breaking Transmission Strategy for NTDs

 PDF | 736.07 KB
Partners matrix_08Nov2018_KEN.pdf

CHIP page

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Country Health Information Platform (CHIP)

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ESPEN Collect
Developer tools
Country Health Information Platform

Registration and setup can take up to 2 weeks from sign up.
[Register for CHIP](#)

CHIP