

# Package: denguedatahub (via r-universe)

October 23, 2024

**Title** A Tidy Format Datasets of Dengue by Country

**Version** 2.1.1

**Description** Provides a weekly, monthly, yearly summary of dengue cases by state/ province/ country.

**License** GPL-3

**URL** <https://denguedatahub.netlify.app/>

**BugReports** <https://github.com/thiyangt/denguedatahub/issues>

**Encoding** UTF-8

**RoxygenNote** 7.3.1

**Imports** dplyr, tibble, tidyr, rvest, stringr, lifecycle, magrittr, here, utils, purrr, xml2, tabulapdf, rlang (>= 0.4.11)

**LazyData** true

**Suggests** roxygen2, tsibble

**SystemRequirements** Java (>= 7.0): openjdk-11-jdk (deb), java-11-openjdk.x86\_64 (rpm), openjdk@11 (brew)

**Depends** R (>= 3.5.0)

**NeedsCompilation** no

**Author** Thiyanga S. Talagala [aut, cre]  
(<https://orcid.org/0000-0002-0656-9789>)

**Maintainer** Thiyanga S. Talagala <ttalagala@sjp.ac.lk>

**Repository** CRAN

**Date/Publication** 2024-09-22 08:50:02 UTC

## Contents

americas_annual_data . . . . .	2
cdc_casesby_week . . . . .	3
cdc_dengue_agesex . . . . .	4
cdc_dengue_casesbyjurisdiction . . . . .	4

cdc_dengue_countyear . . . . .	5
cdc_local_dengue_cases . . . . .	6
cdc_travel_associated_dengue_cases . . . . .	7
cdc_usa_dengue_infection . . . . .	7
china_annual_data . . . . .	8
convert_slwer_to_tidy . . . . .	9
convert_srilanka_wer_to_tidy . . . . .	9
download_pdfwer_srilanka . . . . .	10
filter_year_wer . . . . .	11
get_addresses . . . . .	12
get_pdflinks_srilanka . . . . .	12
india_annual_data . . . . .	13
korea_dengue . . . . .	14
level_of_risk . . . . .	14
min_max . . . . .	15
philippines_daily_data . . . . .	16
singapore_weekly_data . . . . .	16
sl_annual . . . . .	17
sl_dengue_serotype . . . . .	18
sl_sites . . . . .	18
srilanka_weekly_data . . . . .	19
taiwan_dengue . . . . .	20
world_annual . . . . .	21

## Index 22

---

americas\_annual\_data *Dengue and severe dengue cases and deaths for subregions of the Americas*

---

### Description

Region/Country-wise dengue and severe dengue cases and deaths since 1980 (Last accessed from the source on 30 January 2023).

### Usage

```
americas_annual_data
```

### Format

A tibble with 899134 rows and 5 variables:

**region** Name of the affected region  
**country** Name of the country  
**type** An indicator for the type of cases (deaths, cases)  
**cases** cases  
**year** year

**Source**

<https://www3.paho.org/data/index.php/en/mnu-topics/indicadores-dengue-en/dengue-regional-en/261-dengue-reg-ano-en.html>

**Examples**

```
head(americas_annual_data)
```

---

cdc_casesby_week	<i>All dengue cases by week in US states and territories, 2010 - 2023</i>
------------------	---

---

**Description**

All dengue cases by week in US states and territories, 2010 - 2023 published by the US Centers for Disease Control and Prevention (CDC)

**Usage**

```
cdc_casesby_week
```

**Format**

A tibble with 742 rows and 4 variables:

**Year** Year

**Travel.status** Travel status

**Week** Week

**Reported.cases** Number of reported dengue cases

**Source**

Accessed from <https://www.cdc.gov/dengue/data-research/facts-stats/historic-data.html>. Last accessed (Sep 3, 2024)

**Examples**

```
head(cdc_casesby_week)
```

cdc\_dengue\_agesex      *All dengue cases by age group and sex in US states and territories, 2010 - 2023*

---

**Description**

Annual dengue cases by age group and sex in US states and territories, 2010 - 2023 published by the US Centers for Disease Control and Prevention (CDC)

**Usage**

```
cdc_dengue_agesex
```

**Format**

A tibble with 3900 rows and 7 variables:

**Year** Year

**Travel.status** Travel status

**Age** Age group

**Male** Number of male dengue cases

**Female** Number of female dengue cases

**Source**

Accessed from <https://www.cdc.gov/dengue/data-research/facts-stats/historic-data.html>. Last accessed (Sep 3, 2024)

**Examples**

```
head(cdc_dengue_agesex)
```

---

cdc\_dengue\_casesbyjurisdiction      *All dengue cases by jurisdiction of residence in US states and territories, 2010 - 2023*

---

**Description**

All dengue cases by jurisdiction of residence in US states and territories, 2010 - 2023 published by the US Centers for Disease Control and Prevention (CDC)

**Usage**

```
cdc_dengue_casesbyjurisdiction
```

**Format**

A tibble with 742 rows and 4 variables:

**Year** Year

**Travel.status** Travel status

**Jurisdiction** Jurisdiction

**Count** Dengue counts

**Legend** Categorization of counts for easy plotting

**Notes** Additional notes regarding the observation record

**Source**

Accessed from <https://www.cdc.gov/dengue/data-research/facts-stats/historic-data.html>. Last accessed (Sep 3, 2024)

**Examples**

```
head(cdc_dengue_casesbyjurisdiction)
```

---

cdc\_dengue\_countyyear *All dengue cases by county of residence in US states and territories, 2010 - 2023*

---

**Description**

Annual dengue cases by county of residence in US states and territories, 2010 - 2023 published by the US Centers for Disease Control and Prevention (CDC)

**Usage**

```
cdc_dengue_countyyear
```

**Format**

A tibble with 3900 rows and 7 variables:

**FullGeoName** Reporting Area

**Year** Year

**Travel.status** Travel status

**County** County

**Legend** Categorisation of counts for easy visualisations

**Notes** Additional note about the area

**Source**

Accessed from <https://www.cdc.gov/dengue/data-research/facts-stats/historic-data.html>. Last accessed (Sep 3, 2024)

**Examples**

```
head(cdc_usa_dengue_infection)
```

---

```
cdc_local_dengue_cases
```

*Locally acquired dengue cases by year, 2010 - 2023*

---

**Description**

Locally acquired dengue cases by year in the US, 2010 - 2023 published by the US Centers for Disease Control and Prevention (CDC)

**Usage**

```
cdc_local_dengue_cases
```

**Format**

A tibble with 14 rows and 3 variables:

**Year** Year

**Travel.status** Travel status

**Reported.cases** Number of reported cases

**Source**

Accessed from <https://www.cdc.gov/dengue/data-research/facts-stats/historic-data.html>. Last accessed (Sep 3, 2024)

**Examples**

```
head(cdc_local_dengue_cases)
```

---

`cdc_travel_associated_dengue_cases`*Travel associated dengue cases by year, 2010 - 2023*

---

**Description**

Travel associated dengue cases by year, 2010 - 2023 in the US, 2010 - 2023 published by the US Centers for Disease Control and Prevention (CDC)

**Usage**`cdc_travel_associated_dengue_cases`**Format**

A tibble with 14 rows and 3 variables:

**Year** Year

**Travel.status** Travel status

**Reported.cases** Number of reported cases

**Source**

Accessed from <https://www.cdc.gov/dengue/data-research/facts-stats/historic-data.html>. Last accessed (Sep 3, 2024)

**Examples**

```
head(cdc_travel_associated_dengue_cases)
```

---

`cdc_usa_dengue_infection`*Annual number of dengue fever infections in the USA*

---

**Description**

Annual cases of dengue in different areas of the USA

**Usage**`cdc_usa_dengue_infection`

**Format**

A tibble with 9170 rows and 38 variables:

**area** Reporting Area

**year** Year

**week** Week

**dengue\_cases** Dengue cases in the current week

**dengue\_like\_illness** Dengue like illness cases in the current week

**severe\_dengue** Severe dengue cases in the current week

**Source**

[https://data.cdc.gov/browse.php?federation\\_filter=85&format=php&sortBy=alpha&tags=dengue](https://data.cdc.gov/browse.php?federation_filter=85&format=php&sortBy=alpha&tags=dengue)

**Examples**

```
head(cdc_usa_dengue_infection)
```

---

china_annual_data	<i>Dengue related data in China</i>
-------------------	-------------------------------------

---

**Description**

Annual indigenous and imported dengue cases in mainland China, 2005-2020

**Usage**

```
china_annual_data
```

**Format**

A tibble with 16 rows and 5 variables:

**year** Year

**dengue.cases.indigenous** Number of indigenous dengue cases

**dengue.cases.imported** Number of imported dengue cases

**counties.with.dengue.fever.indigenous** Number of counties with dengue fever - indigenous cases

**counties.with.dengue.fever.imported** Number of counties with dengue fever - imported cases

**Source**

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8997546/table/ijerph-19-03910-t001/?report=objectonly>

**Examples**

```
head(china_annual_data)
```



---

convert\_slwer\_to\_tidy *Read weekly epidemiological reports and convert dengue data into tidy format*

---

### Description

Read weekly epidemiological reports and convert dengue data into tidy format

### Usage

```
convert_slwer_to_tidy(
  year,
  reports.url,
  start.date.first,
  end.date.first,
  start.date.last,
  end.date.last,
  week.no
)
```

### Arguments

year	year
reports.url	URL address vector obtained from get_pdflinks_srilanka
start.date.first	starting date of the first report week (format "2006-12-23")
end.date.first	ending date of the first report week (format "2006-12-23")
start.date.last	starting date of the last report week (format "2006-12-23")
end.date.last	ending date of the first report week (format "2006-12-23")
week.no	report number vector

---

convert\_srilanka\_wer\_to\_tidy  
*Read weekly epidemiological reports and convert dengue data into tidy format*

---

### Description

Read weekly epidemiological reports and convert dengue data into tidy format

**Usage**

```

convert_srilanka_wer_to_tidy(
  year,
  url.part1 = "https://www.epid.gov.lk",
  url.part2,
  start.date.first,
  end.date.first,
  start.date.last,
  end.date.last,
  week.no
)

```

**Arguments**

year	year
url.part1	first part of the URL, by default "https://www.epid.gov.lk"
url.part2	URL address vector obtained from filter_year_wer_link
start.date.first	starting date of the first report week (format "2006-12-23")
end.date.first	ending date of the first report week (format "2006-12-23")
start.date.last	starting date of the last report week (format "2006-12-23")
end.date.last	ending date of the first report week (format "2006-12-23")
week.no	report number vector

---

download\_pdfwer\_srilanka

*Download and save weekly epidemiological reports from Epidemiology Unit, Ministry of Health, Sri Lanka (url <https://www.epid.gov.lk/weekly-epidemiological-report/weekly-epidemiological-report>)*

---

**Description**

Download and save weekly epidemiological reports from Epidemiology Unit, Ministry of Health, Sri Lanka (url <https://www.epid.gov.lk/weekly-epidemiological-report/weekly-epidemiological-report>)

**Usage**

```

download_pdfwer_srilanka(
  url =
    "https://www.epid.gov.lk/weekly-epidemiological-report/weekly-epidemiological-report",
  folder.name,
  volume.number
)

```

**Arguments**

- url url of the webpage that you intend to download files. The default is URL of the weekly epidemiological reports page
- folder.name create a folder with this name and save the pdf file inside this folder
- volume.number Volume number of the epidemiological reports (Volumes corresponds to year)

**Value**

Pdf files corresponds to the volume number you specified inside the folder.name

**Author(s)**

Thiyanga S Talagala

---

filter\_year\_wer *Filter links corresponds to a specific year using the function output get\_address*

---

**Description**

Filter links corresponds to a specific year using the function output get\_address

**Usage**

```
filter_year_wer(year, address)
```

**Arguments**

- year year that you want to extract the reports
- address list or the outout from get\_address function

**Author(s)**

Thiyanga S Talagala

---

get_addresses	<i>Extract links of all downloadable files on a webpage</i>
---------------	---

---

**Description**

Extract links of all downloadable files on a webpage

**Usage**

```
get_addresses(url)
```

**Arguments**

url	url of the webpage that you intend to download files.
-----	---

**Value**

web addresses of all downloadable files

**Author(s)**

Thiyanga S Talagala

---

get_pdflinks_srilanka	<i>Get URLs of weekly epidemiological reports from Epidemiology Unit, Ministry of Health, Sri Lanka (url <a href="https://www.epid.gov.lk/weekly-epidemiological-report/weekly-epidemiological-report">https://www.epid.gov.lk/weekly-epidemiological-report/weekly-epidemiological-report</a>)</i>
-----------------------	---

---

**Description**

Get URLs of weekly epidemiological reports from Epidemiology Unit, Ministry of Health, Sri Lanka (url <https://www.epid.gov.lk/weekly-epidemiological-report/weekly-epidemiological-report>)

**Usage**

```
get_pdflinks_srilanka(
    url =
        "https://www.epid.gov.lk/weekly-epidemiological-report/weekly-epidemiological-report",
    volume.number
)
```

**Arguments**

url	url of the webpage that you intend to download files. The default is URL of the weekly epidemiological reports page
volume.number	Volume number of the epidemiological reports (Volumes corresponds to year)

**Value**

URLS of PDF files corresponds to the volume number

**Author(s)**

Thiyanga S Talagala

---

india\_annual\_data      *DENGUE/DHF situation in India since 2017*

---

**Description**

State/Union Territory(UT)-wise dengue/DHF annual deaths and cases since 2017 (Last accessed from the source on 30 January 2023).

**Usage**

india\_annual\_data

**Format**

A tibble with 432 rows and 5 variables:

**area** Name of the affected states/UTs

**type** An indicator for the type of cases (deaths, cases)

**year** Year

**additional\_information** Additional information regarding collected year period

**value** Cases

**Source**

National Center for Vector Borne Disease Control, Directorate General of Health Services, Ministry of Health and Family Welfare, Government of India.

**Examples**

```
head(india_annual_data)
```

---

korea_dengue	<i>Imported dengue cases in Korea</i>
--------------	---------------------------------------

---

**Description**

Data for imported dengue cases were collected from Korea Centers for Disease Control and Prevention (KCDC)

**Usage**

```
korea_dengue
```

**Format**

A tibble with 33 rows and 7 variables:

**Country** Country

**Region** Region

**2011** Year 2011

**2012** Year 2012

**2013** Year 2013

**2014** Year 2014

**2015** Year 2015

**Source**

Je, Sungmo, Wonjun Bae, Jiyeon Kim, Seung Hyeok Seok, and Eung-Soo Hwang. "Epidemiological characteristics and risk factors of dengue infection in Korean travelers." *Journal of Korean Medical Science* 31, no. 12 (2016): 1863-1873.

**Examples**

```
head(korea_dengue)
```

---

level_of_risk	<i>Level of Dengue risk around the world</i>
---------------	--

---

**Description**

Country-wise dengue risk levels (Last accessed from the source on 18 January 2023).

**Usage**

```
level_of_risk
```

**Format**

A tibble with 293 rows and 4 variables:

**country** factor Name of the country

**level\_of\_risk** factor Dengue risk level. There are three categories: Frequent or continuous, Sporadic or uncertain, Varies by region. Frequent/continuous risk: evidence of more than 10 dengue cases in at least 3 of the previous 10 years. Sporadic/uncertain risk: evidence of at least 1 locally acquired dengue case during the last 10 years.

**region** factor Region

**last\_accessed** information last accessed date

**Source**

The 2024 data accessed from <https://www.cdc.gov/dengue/areas-with-risk/index.html>.

**Examples**

```
head(level_of_risk)
```

---

min\_max

*Apply min-max transformation*

---

**Description**

Apply min-max transformation

**Usage**

```
min_max(data, variable.to.minmax, local = FALSE, group.var)
```

**Arguments**

**data** tibble that contains cases, groups

**variable.to.minmax**

the variable that we want to transform using the min-max transformation

**local** TRUE if you need to apply local minmax transformation

**group.var** variables that you need to create group-wise

**Value**

tibble with minmax transformed applied

---

```
philippines_daily_data
```

*Daily number of dengue fever infections in Philippines*

---

### Description

Daily cases of dengue in Philippines

### Usage

```
philippines_daily_data
```

### Format

A tibble with 32701 rows and 5 variables:

**location** location

**affected\_and\_infected** affected and infected number of cases

**affected\_and\_killed** affected and killed number of cases

**date** date of the week

**region** region name

### Source

<https://data.humdata.org/dataset/philippine-dengue-cases-and-deaths?>

### Examples

```
head(philippines_daily_data)
```

---

```
singapore_weekly_data
```

*Weekly number of dengue fever infections in Sri Lanka*

---

### Description

Weekly cases of dengue in Sri Lanka

### Usage

```
singapore_weekly_data
```



**Format**

A tibble with 18772 rows and 6 variables:

**year** year

**week** week number

**cases** Number of dengue cases

**Source**

<https://www.straitstimes.com/multimedia/graphics/2022/06/singapore-dengue-cases/index.html?shell#:~:text=Singapore%20is%20currently%20seeing%2030,lower%20than%20the%202020%20surge>

**Examples**

```
head(singapore_weekly_data)
```

---

sl_annual	<i>Annual reported dengue cases in Sri Lanka</i>
-----------	--

---

**Description**

Annual reported dengue cases in Sri Lanka 1989-2021

**Usage**

```
sl_annual
```

**Format**

A tibble with 35 rows and 3 variables:

**year** Year

**dengue.cases** Number of dengue cases

**epidemic** Epidemic: 1 if the year is classified as an epidemic year, 0 otherwise

**Source**

Source 1: World Health Organization. Dengue Fact Sheet and Situation Report, Sri Lanka. 22 July 2022. Available at: [https://cdn.who.int/media/docs/default-source/sri-lanka-documents/dengue-fact-sheet\\_7-2022-sr1.pdf?sfvrsn=49021bd\\_1](https://cdn.who.int/media/docs/default-source/sri-lanka-documents/dengue-fact-sheet_7-2022-sr1.pdf?sfvrsn=49021bd_1). (Accessed: 4 September 2024), Source 2: Weekly Dengue Updates, National Dengue Control Unit, Ministry of Health

**Examples**

```
head(sl_annual)
```

---

sl_dengue_serotype	<i>Identification of dengue serotypes circulating in Sri Lanka</i>
--------------------	--

---

**Description**

History of dengue dengue serotypes circulating in Sri Lanka.

**Usage**

sl\_dengue\_serotype

**Format**

A tibble with 35 rows and 3 variables:

**year** Year

**dengue.cases** Number of dengue cases

**Source**

Ali, Shahid, Abdul Waheed Khan, Andrew W. Taylor-Robinson, Muhammad Adnan, Shahana Malik, and Saba Gul. "The unprecedented magnitude of the 2017 dengue outbreak in Sri Lanka provides lessons for future mosquito-borne infection control and prevention." *Infection, Disease & Health* 23, no. 2 (2018): 114-120.

**Examples**

```
head(sl_dengue_serotype)
```

---

sl_sites	<i>Type and proportion of breeding habitats positive for Aedes aegypti mosquitoes, across provinces in Sri Lanka, 2017.</i>
----------	---

---

**Description**

Total number of premises inspected: 279,728; Total number of premises inspected: 279,728; total Ae. aegypti-positive containers: 9,699. Other miscellaneous items include refrigerator trays, nonfunctional cisterns, pet feeding cups, gutters, concrete slabs, and any other water-collecting containers. (Last accessed from the source on 3 September 2024).

**Usage**

sl\_sites

**Format**

A tibble with 9 rows and 7 variables:

**Province** Province

**Discarded\_items** Percentage of water-retaining containers positive for discarded items

**Water\_storage\_containers\_and\_tanks** Percentage of water-retaining containers positive for water storage containers and tanks

**Ponds\_and\_ornamental\_items** Percentage of water-retaining containers positive for ponds and ornamental items

**Wells\_and\_tube\_wells** Percentage of water-retaining containers positive for wells and tube wells

**Natural\_water\_collections** Percentage of water-retaining containers positive for natural water collections

**Other\_miscellaneous\_items** Percentage of water-retaining containers positive for other miscellaneous items

**Source**

Tissera, H.A., Jayamanne, B.D., Raut, R., Janaki, S.M., Tozan, Y., Samaraweera, P.C., Liyanage, P., Ghouse, A., Rodrigo, C., de Silva, A.M. and Fernando, S.D., 2020. Severe dengue epidemic, Sri Lanka, 2017. *Emerging infectious diseases*, 26(4), p.682. head(sl\_sites)

---

srilanka\_weekly\_data *Weekly number of dengue fever infections in Sri Lanka*

---

**Description**

Weekly cases of dengue in Sri Lanka

**Usage**

srilanka\_weekly\_data

**Format**

A tibble with 23815 rows and 6 variables:

**year** year

**week** week number

**start.date** starting date of the week

**end.date** ending date of the week

**district** district name

**cases** Number of dengue cases

**Source**

Weekly Epidemiological Reports, Epidemiology Unit, Ministry of Health, Sri Lanka.

**Examples**

```
head(srilanka_weekly_data)
```

---

taiwan\_dengue

*Indigenous and imported dengue cases in Taiwan, 1987-2023.*

---

**Description**

Annual indigenous and imported dengue cases in Taiwan, 1987-2023.

**Usage**

```
taiwan_dengue
```

**Format**

A tibble with 37 rows and 3 variables:

**year** Year

**indigenous.dengue** Number of indigenous dengue cases

**imported.dengue** Number of imported dengue

**Source**

Taiwan Centres for Disease Control, Available at: [https://www.cdc.gov.tw/En/Category/ListContent/bg0g\\_VU\\_Ysrgkes\\_KRUDgQ?uaid=9\\_0q70YHa-l8B05iUwyVvQ](https://www.cdc.gov.tw/En/Category/ListContent/bg0g_VU_Ysrgkes_KRUDgQ?uaid=9_0q70YHa-l8B05iUwyVvQ). (Accessed: 4 September 2024), Source 2: Weekly Dengue Updates, National Dengue Control Unit, Ministry of Health

**Examples**

```
head(taiwan_dengue)
```

---

world_annual	<i>Annual number of dengue fever infections around the world</i>
--------------	--

---

**Description**

Annual incidence of dengue around the world

**Usage**

world\_annual

**Format**

A tibble with 6750 rows and 4 variables:

**longitude** Longitude

**latitude** Latitude

**group** group variable

**order** collect in order

**region** regions

**subregion** subregions

**code** Country or area code

**year** year

**incidence** Number of dengue incidence across all ages #'

**dengue.present** whetherdengue cases present or not

**Source**

<https://ourworldindata.org/grapher/dengue-incidence>

**Examples**

```
head(world_annual)
```

# Index

## \* datasets

- americas\_annual\_data, 2
  - cdc\_casesby\_week, 3
  - cdc\_dengue\_agesex, 4
  - cdc\_dengue\_casesbyjurisdiction, 4
  - cdc\_dengue\_countyyear, 5
  - cdc\_local\_dengue\_cases, 6
  - cdc\_travel\_associated\_dengue\_cases, 7
  - cdc\_usa\_dengue\_infection, 7
  - china\_annual\_data, 8
  - india\_annual\_data, 13
  - korea\_dengue, 14
  - level\_of\_risk, 14
  - philippines\_daily\_data, 16
  - singapore\_weekly\_data, 16
  - sl\_annual, 17
  - sl\_dengue\_serotype, 18
  - sl\_sites, 18
  - srilanka\_weekly\_data, 19
  - taiwan\_dengue, 20
  - world\_annual, 21
- americas\_annual\_data, 2
- cdc\_casesby\_week, 3
- cdc\_dengue\_agesex, 4
- cdc\_dengue\_casesbyjurisdiction, 4
- cdc\_dengue\_countyyear, 5
- cdc\_local\_dengue\_cases, 6
- cdc\_travel\_associated\_dengue\_cases, 7
- cdc\_usa\_dengue\_infection, 7
- china\_annual\_data, 8
- convert\_slwer\_to\_tidy, 9
- convert\_srilanka\_wer\_to\_tidy, 9
- download\_pdfwer\_srilanka, 10
- filter\_year\_wer, 11
- get\_addresses, 12
- get\_pdflinks\_srilanka, 12
- india\_annual\_data, 13
- korea\_dengue, 14
- level\_of\_risk, 14
- min\_max, 15
- philippines\_daily\_data, 16
- singapore\_weekly\_data, 16
- sl\_annual, 17
- sl\_dengue\_serotype, 18
- sl\_sites, 18
- srilanka\_weekly\_data, 19
- taiwan\_dengue, 20
- world\_annual, 21