

# Package ‘MMWRweek’

January 20, 2025

**Type** Package

**Title** Convert Dates to MMWR Day, Week, and Year

**Version** 0.1.3

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**Author** Jarad Niemi <niemi@iastate.edu>

**Maintainer** Jarad Niemi <niemi@iastate.edu>

**Suggests** testthat

**Description** The first day of any MMWR week is Sunday.  
MMWR week numbering is sequential beginning with 1  
and incrementing with each week to a maximum of 52  
or 53. MMWR week #1 of an MMWR year is the first week  
of the year that has at least four days in the calendar  
year. This package provides functionality to convert  
Dates to MMWR day, week, and year and the reverse.

**License** GPL (>= 2) | file LICENSE

**LazyLoad** yes

**URL** [http://www.cdc.gov/nndss/document/MMWR\\_Week\\_overview.pdf](http://www.cdc.gov/nndss/document/MMWR_Week_overview.pdf)

**RoxygenNote** 7.0.1

**NeedsCompilation** no

**Repository** CRAN

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get\_start\_date            *Finds the start date for the year associated with date.*

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**Description**

Finds the start date for the year associated with date.

**Usage**

```
get_start_date(date)
```

**Arguments**

date                    vector which can be coerced to class Date

**Value**

Date vector for start date of MMWR year associated with date

**Author(s)**

Jarad Niemi <niemi@iastate.edu>

**See Also**

[start\\_date](#)

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MMWRweek                *MMWR day, week, and year*

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**Description**

This function returns the MMWR day, week, and year for the Date(s) provided.

**Usage**

```
MMWRweek(date)
```

**Arguments**

date                    vector which can be coerced to class Date

**Details**

The first day of any MMWR week is Sunday. MMWR week numbering is sequential beginning with 1 and incrementing with each week to a maximum of 52 or 53. MMWR week #1 of an MMWR year is the first week of the year that has at least four days in the calendar year. For example, if January 1 occurs on a Sunday, Monday, Tuesday or Wednesday, the calendar week that includes January 1 would be MMWR week #1. If January 1 occurs on a Thursday, Friday, or Saturday, the calendar week that includes January 1 would be the last MMWR week of the previous year (#52 or #53). Because of this rule, December 29, 30, and 31 could potentially fall into MMWR week #1 of the following MMWR year.

**Value**

data.frame with elements MMWRday (of the week), MMWRweek, and MMWRyear

**Author(s)**

Jarad Niemi <niemi@iastate.edu>

**References**

[http://www.cdc.gov/nndss/document/MMWR\\_Week\\_overview.pdf](http://www.cdc.gov/nndss/document/MMWR_Week_overview.pdf)

**See Also**

[MMWRweekday](#), [MMWRweek2Date](#)

**Examples**

```
y = as.Date(paste(1999:2011, "-12-31", sep = ""))
cbind(y, MMWRweek(y))
```

---

MMWRweek2Date

*Convert MMWRweek to Date*

---

**Description**

Computes the Date from the MMWR year, week, and day.

**Usage**

```
MMWRweek2Date(MMWRyear, MMWRweek, MMWRday = NULL)
```

**Arguments**

|          |                                                    |
|----------|----------------------------------------------------|
| MMWRyear | numeric vector of years                            |
| MMWRweek | numeric vector of weeks                            |
| MMWRday  | numeric vector of days, defaults to a vector of 1s |

**Value**

Date vector of dates associated with MMWR year, week, and day

**Author(s)**

Jarad Niemi <niemi@iastate.edu>

**See Also**

[MMWRweek](#)

**Examples**

```
MMWRweek2Date(MMWRyear=2015, MMWRweek=36, MMWRday=3)
```

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MMWRweekday

*Day of week according to MMWR*

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**Description**

This function returns the weekday of a given date according to MMWR.

**Usage**

```
MMWRweekday(date)
```

**Arguments**

date                    vector which can be coerced to class Date

**Value**

vector of weekdays as a factor (first level is Sunday)

**Author(s)**

Sebastian Meyer <seb.meyer@fau.de>

**See Also**

[MMWRweek](#)

**Examples**

```
y <- as.Date(paste(1999:2011, "-12-31", sep = ""))
data.frame(date = format(y), MMWRweekday = MMWRweekday(y))
```

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|            |                                            |
|------------|--------------------------------------------|
| start_date | <i>Find start date for a calendar year</i> |
|------------|--------------------------------------------|

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**Description**

Finds the state date given a numeric calendar year

**Usage**

start\_date(year)

**Arguments**

year                    integer vector of four digit years

**Value**

Date vector for January 1st of the calendar year

**Author(s)**

Jarad Niemi <niemi@iastate.edu>

**See Also**

[get\\_start\\_date](#)

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