Package ‘boe’

March 12, 2026

Title Download Data from the Bank of England Statistical Database

Version 0.1.0

Description Provides functions to download and tidy statistical data published by the Bank of England <https://www.bankofengland.co.uk>. Covers Bank Rate, SONIA, gilt yields, exchange rates, mortgage rates, mortgage approvals, consumer credit, and money supply. Series are fetched from the Bank of England Interactive Statistical Database using its CSV endpoint. Data is cached locally between sessions.

License MIT + file LICENSE

Encoding UTF-8

Language en-GB

RoxygenNote 7.3.3

Imports cli (>= 3.6.0), httr2 (>= 1.0.0), tools

Suggests testthat (>= 3.0.0), ggplot2, scales

Config/testthat/edition 3

URL https://github.com/charlescoverdale/boe

BugReports https://github.com/charlescoverdale/boe/issues

Depends R (>= 4.1.0)

NeedsCompilation no

Author Charles Coverdale [aut, cre]

Maintainer Charles Coverdale <charlesfcoverdale@gmail.com>

Repository CRAN

Date/Publication 2026-03-12 09:00:23 UTC

Contents

`boe_bank_rate` *Download Bank of England Bank Rate history*

Description

Downloads the official Bank Rate (base interest rate) set by the Monetary Policy Committee. Available as a daily series from January 1975.

Usage

```
boe_bank_rate(
  from = "1975-01-02",
  to = Sys.Date(),
  frequency = c("daily", "monthly"),
  cache = TRUE
)
```

Arguments

`from`	Date or character (YYYY-MM-DD). Start date. Defaults to `"1975-01-02"`.
`to`	Date or character (YYYY-MM-DD). End date. Defaults to today.
`frequency`	Character. One of `"daily"` (default) or `"monthly"` (monthly average).
`cache`	Logical. Use cached data if available (default `TRUE`).

Value

A data frame with columns:

date Date. Observation date.

rate_pct Numeric. Bank Rate (percent).

Source

https://www.bankofengland.co.uk/boeapps/database/

Examples

```
# Bank Rate since 2000
boe_bank_rate(from = "2000-01-01")

# Monthly average
boe_bank_rate(from = "2020-01-01", frequency = "monthly")
```

---

boe_consumer_credit *Download consumer credit outstanding*

Description

Downloads monthly outstanding amounts of consumer credit (total, credit cards, and other consumer credit). Seasonally adjusted. Available from April 1993.

Usage

```
boe_consumer_credit(
  type = c("total", "credit_card", "other"),
  from = "1993-04-01",
  to = Sys.Date(),
  cache = TRUE
)
```

Arguments

`type`	Character vector. One or more of `"total"`, `"credit_card"`, `"other"`. Defaults to all three.
`from`	Date or character (YYYY-MM-DD). Start date. Defaults to `"1993-04-01"`.
`to`	Date or character (YYYY-MM-DD). End date. Defaults to today.
`cache`	Logical. Use cached data if available (default `TRUE`).

Value

A data frame with columns:

date Date. End of month.

type Character. Credit type.

amount_gbp_m Numeric. Outstanding amount (millions of pounds).

Source

https://www.bankofengland.co.uk/boeapps/database/

Examples

```
boe_consumer_credit(from = "2015-01-01")
```

`boe_exchange_rate` *Download sterling exchange rates*

Description

Downloads daily spot exchange rates for sterling against major currencies from the Bank of England. Most series available from January 1975.

Usage

```
boe_exchange_rate(
  currency = "USD",
  from = "1975-01-02",
  to = Sys.Date(),
  cache = TRUE
)
```

Arguments

currency	Character vector. One or more currency codes. Use `list_exchange_rates()` to see all available currencies. Defaults to `"USD"`.
from	Date or character (YYYY-MM-DD). Start date. Defaults to `"1975-01-02"`.
to	Date or character (YYYY-MM-DD). End date. Defaults to today.
cache	Logical. Use cached data if available (default `TRUE`).

Value

A data frame with columns:

date Date. Observation date.

currency Character. Currency code (e.g. `"USD"`).

rate Numeric. Units of foreign currency per GBP.

Source

https://www.bankofengland.co.uk/boeapps/database/

Examples

```
# GBP/USD since 2020
boe_exchange_rate("USD", from = "2020-01-01")

# Multiple currencies
boe_exchange_rate(c("USD", "EUR", "JPY"), from = "2020-01-01")
```

`boe_get` *Fetch any series from the Bank of England Statistical Database*

Description

The core data retrieval function. Fetches one or more series by their BoE series codes and returns a tidy data frame. Use this when the convenience functions (e.g. `boe_bank_rate()`, `boe_exchange_rate()`) do not cover the series you need.

Usage

```
boe_get(series_codes, from = "1960-01-01", to = Sys.Date(), cache = TRUE)
```

Arguments

`series_codes`	Character vector of one or more BoE series codes.
`from`	Date or character (YYYY-MM-DD). Start date. Defaults to `"1960-01-01"`.
`to`	Date or character (YYYY-MM-DD). End date. Defaults to today.
`cache`	Logical. Use cached data if available (default `TRUE`).

Details

Series codes can be found via the Bank of England Interactive Statistical Database at https://www.bankofengland.co.uk/boeapps/database/.

Value

A data frame with columns:

date Date. Observation date.

code Character. BoE series code.

value Numeric. Observation value.

Source

https://www.bankofengland.co.uk/boeapps/database/

Examples

```
# Bank Rate since 2000
boe_get("IUDBEDR", from = "2000-01-01")

# Multiple series
boe_get(c("IUDBEDR", "IUDSOIA"), from = "2020-01-01")
```

`boe_money_supply` *Download M4 money supply*

Description

Downloads monthly M4 (broad money) amounts outstanding from the Bank of England. Available from June 1982.

Usage

```
boe_money_supply(
  from = "1982-06-01",
  to = Sys.Date(),
  seasonally_adjusted = TRUE,
  cache = TRUE
)
```

Arguments

`from`	Date or character (YYYY-MM-DD). Start date. Defaults to `"1982-06-01"`.
`to`	Date or character (YYYY-MM-DD). End date. Defaults to today.
`seasonally_adjusted`	Logical. Return seasonally adjusted series (default `TRUE`) or non-seasonally adjusted (`FALSE`).
`cache`	Logical. Use cached data if available (default `TRUE`).

Value

A data frame with columns:

date Date. End of month.

amount_gbp_m Numeric. M4 amounts outstanding (millions of pounds).

Source

https://www.bankofengland.co.uk/boeapps/database/

Examples

```
boe_money_supply(from = "2000-01-01")
```

---

boe_mortgage_approvals *Download mortgage approvals for house purchase*

Description

Downloads the monthly count of mortgage approvals for house purchase, a widely watched leading indicator of housing market activity. Available from April 1993.

Usage

```
boe_mortgage_approvals(
  from = "1993-04-01",
  to = Sys.Date(),
  seasonally_adjusted = TRUE,
  cache = TRUE
)
```

Arguments

`from`	Date or character (YYYY-MM-DD). Start date. Defaults to `"1993-04-01"`.
`to`	Date or character (YYYY-MM-DD). End date. Defaults to today.
`seasonally_adjusted`	Logical. Return seasonally adjusted series (default `TRUE`) or non-seasonally adjusted (`FALSE`).
`cache`	Logical. Use cached data if available (default `TRUE`).

Value

A data frame with columns:

date Date. End of month.

approvals Numeric. Number of mortgage approvals.

Source

https://www.bankofengland.co.uk/boeapps/database/

Examples

```
boe_mortgage_approvals(from = "2015-01-01")
```

boe_mortgage_rates *Download quoted mortgage interest rates*

Description

Downloads monthly quoted (advertised) mortgage rates from the Bank of England, including fixed-rate products and the standard variable rate (SVR). Available from January 1995.

Usage

```
boe_mortgage_rates(
  type = c("2yr_fixed", "3yr_fixed", "5yr_fixed", "svr"),
  from = "1995-01-01",
  to = Sys.Date(),
  cache = TRUE
)
```

Arguments

`type`	Character vector. One or more of `"2yr_fixed"`, `"3yr_fixed"`, `"5yr_fixed"`, `"svr"`. Defaults to all four.
`from`	Date or character (YYYY-MM-DD). Start date. Defaults to `"1995-01-01"`.
`to`	Date or character (YYYY-MM-DD). End date. Defaults to today.
`cache`	Logical. Use cached data if available (default `TRUE`).

Value

A data frame with columns:

date Date. End of month.

type Character. Mortgage product type.

rate_pct Numeric. Quoted rate (percent).

Source

https://www.bankofengland.co.uk/boeapps/database/

Examples

```
# All mortgage rate types since 2015
boe_mortgage_rates(from = "2015-01-01")

# 2-year fixed only
boe_mortgage_rates(type = "2yr_fixed", from = "2020-01-01")
```

boe_sonia *Download SONIA interest rate*

Description

Downloads the Sterling Overnight Index Average (SONIA), the risk-free reference rate for sterling markets. Available daily from January 1997.

Usage

```
boe_sonia(
  from = "1997-01-02",
  to = Sys.Date(),
  frequency = c("daily", "monthly", "annual"),
  cache = TRUE
)
```

Arguments

`from`	Date or character (YYYY-MM-DD). Start date. Defaults to `"1997-01-02"`.
`to`	Date or character (YYYY-MM-DD). End date. Defaults to today.
`frequency`	Character. One of `"daily"` (default), `"monthly"` (monthly average), or `"annual"` (annual average).
`cache`	Logical. Use cached data if available (default `TRUE`).

Value

A data frame with columns:

date Date. Observation date.

rate_pct Numeric. SONIA rate (percent).

Source

https://www.bankofengland.co.uk/boeapps/database/

Examples

```
boe_sonia(from = "2020-01-01")
```

boe_yield_curve *Download UK gilt yields*

Description

Downloads nominal or real gilt yields at specified maturities from the Bank of England yield curve data. Nominal par yields are available daily from late 1993; real zero-coupon yields from 1985.

Usage

```
boe_yield_curve(
  from = "2000-01-01",
  to = Sys.Date(),
  maturity = c("5yr", "10yr", "20yr"),
  type = c("nominal", "real"),
  measure = c("par_yield", "zero_coupon"),
  cache = TRUE
)
```

Arguments

`from`	Date or character (YYYY-MM-DD). Start date.
`to`	Date or character (YYYY-MM-DD). End date. Defaults to today.
`maturity`	Character vector. One or more of `"5yr"`, `"10yr"`, `"20yr"`. Defaults to all three.
`type`	Character. `"nominal"` (default) or `"real"`.
`measure`	Character. `"par_yield"` (default, nominal only) or `"zero_coupon"`.
`cache`	Logical. Use cached data if available (default `TRUE`).

Value

A data frame with columns:

date Date. Observation date.

maturity Character. Maturity label (e.g. `"5yr"`).

yield_pct Numeric. Yield (percent).

Source

https://www.bankofengland.co.uk/boeapps/database/

Examples

```
# 10-year nominal gilt yield since 2020
boe_yield_curve(from = "2020-01-01", maturity = "10yr")

# Full nominal curve
boe_yield_curve(from = "2020-01-01")

# Real yields
boe_yield_curve(from = "2020-01-01", type = "real", measure = "zero_coupon")
```

`clear_cache` *Clear locally cached Bank of England data*

Description

Removes cached data files downloaded from the Bank of England.

Usage

```
clear_cache(max_age_days = NULL)
```

Arguments

`max_age_days`	Numeric or `NULL`. If specified, only removes files older than this many days. If `NULL` (the default), removes all cached files.

Value

Invisibly returns the number of files removed.

Examples

```
# Remove files older than 7 days
clear_cache(max_age_days = 7)

# Remove everything
clear_cache()
```

`list_exchange_rates` *List available exchange rate currencies*

Description

Returns a data frame of currency codes and descriptions available from the Bank of England exchange rate series.

Usage

```
list_exchange_rates()
```

Value

A data frame with columns:

currency Character. ISO currency code.

description Character. Currency name.

boe_code Character. BoE series code.

Examples

```
list_exchange_rates()
```

Index