

Package ‘boe’

March 17, 2026

Title Download Data from the 'Bank of England' Statistical Database

Version 0.1.2

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.

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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

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Repository CRAN

Date/Publication 2026-03-17 08:31:07 UTC

Contents

boe_bank_rate	2
boe_consumer_credit	3
boe_exchange_rate	4

boe_get	5
boe_money_supply	6
boe_mortgage_approvals	7
boe_mortgage_rates	8
boe_sonia	9
boe_yield_curve	11
clear_cache	12
list_exchange_rates	13

Index 14

boe_bank_rate	<i>Download Bank of England Bank Rate history</i>
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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/>

See Also

Other interest rates: [boe_sonia\(\)](#), [boe_yield_curve\(\)](#)

Examples

```
op <- options(boe.cache_dir = tempdir())
# Bank Rate since 2000
boe_bank_rate(from = "2000-01-01")

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

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/>

See Also

Other credit and housing: [boe_mortgage_approvals\(\)](#), [boe_mortgage_rates\(\)](#)

Examples

```
op <- options(boe.cache_dir = tempdir())
boe_consumer_credit(from = "2015-01-01")
options(op)
```

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/>

See Also

Other exchange rates: [list_exchange_rates\(\)](#)

Examples

```
op <- options(boe.cache_dir = tempdir())
# 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")
options(op)
```

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/>

See Also

Other data access: [clear_cache\(\)](#)

Examples

```
op <- options(boe.cache_dir = tempdir())
# Bank Rate since 2000
boe_get("IUBNDR", from = "2000-01-01")

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

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

```
op <- options(boe.cache_dir = tempdir())
boe_money_supply(from = "2000-01-01")
options(op)
```

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/>

See Also

Other credit and housing: [boe_consumer_credit\(\)](#), [boe_mortgage_rates\(\)](#)

Examples

```
op <- options(boe.cache_dir = tempdir())
boe_mortgage_approvals(from = "2015-01-01")
options(op)
```

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/>

See Also

Other credit and housing: [boe_consumer_credit\(\)](#), [boe_mortgage_approvals\(\)](#)

Examples

```
op <- options(boe.cache_dir = tempdir())
# 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")
options(op)
```

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/>

See Also

Other interest rates: [boe_bank_rate\(\)](#), [boe_yield_curve\(\)](#)

Examples

```
op <- options(boe.cache_dir = tempdir())  
boe_sonia(from = "2020-01-01")  
options(op)
```

boe_yield_curve	<i>Download UK gilt yields</i>
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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/>

See Also

Other interest rates: [boe_bank_rate\(\)](#), [boe_sonia\(\)](#)

Examples

```
op <- options(boe.cache_dir = tempdir())
# 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")
options(op)
```

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.

See Also

Other data access: [boe_get\(\)](#)

Examples

```
op <- options(boe.cache_dir = tempdir())
# Remove files older than 7 days
clear_cache(max_age_days = 7)

# Remove everything
clear_cache()
options(op)
```

`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.

See Also

Other exchange rates: [boe_exchange_rate\(\)](#)

Examples

```
list_exchange_rates()
```

Index

- * **credit and housing**
 - boe_consumer_credit, 3
 - boe_mortgage_approvals, 7
 - boe_mortgage_rates, 8
 - * **data access**
 - boe_get, 5
 - clear_cache, 12
 - * **exchange rates**
 - boe_exchange_rate, 4
 - list_exchange_rates, 13
 - * **interest rates**
 - boe_bank_rate, 2
 - boe_sonia, 9
 - boe_yield_curve, 11
 - * **money**
 - boe_money_supply, 6
- boe_bank_rate, 2, 10, 11
boe_bank_rate(), 5
boe_consumer_credit, 3, 8, 9
boe_exchange_rate, 4, 13
boe_exchange_rate(), 5
boe_get, 5, 12
boe_money_supply, 6
boe_mortgage_approvals, 4, 7, 9
boe_mortgage_rates, 4, 8, 8
boe_sonia, 3, 9, 11
boe_yield_curve, 3, 10, 11
- clear_cache, 6, 12
- list_exchange_rates, 5, 13
list_exchange_rates(), 4