

Economic and Finance statistics



Block 4: Micro data for financial statistics

Part 4, Section 1 – Money Market Statistical Reporting (MMSR)

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Overview

Part 1: Introduction to financial micro statistics - Benefits, challenges and key aspects

Part 2: Security-by-Security databases (SBS)

Part 3: Loan-by-loan data – The example of Anacredit

Part 4: MMSR, €STR and yield curve

Section 1: Money market statistical reporting (MMSR)

Section 2: Euro short-term rate (€STR)

Section 3: Yield curve

Money market statistical reporting (MMSR)

Coverage and scope

- **Daily transaction-by-transaction** data on:
 - EUR cash borrowing / lending in unsecured and secured (repo) markets
 - transactions in EUR overnight indexed swaps and foreign exchange swaps against EUR
- Reported by 07:00 a.m. on the next business day following the trades
- By **largest euro area MFIs** (balance sheet > 0.35% of total euro area MFI assets)
 - Currently 48 MFIs with market coverage 80% – 85% (but varies per segment)
 - Market concentration is high geographically with ~ 80% for reporters in DE, FR, IT and ES
- All counterparties except: HHs & NPISH; retail business with NFCs; unsecured lending to non-MFIs



Money market statistical reporting (MMSR)

The data: main variables and attributes

- Main variables:
 - **Pricing**: interest rate (fixed / floating); swap points for FX swaps
 - **Volume**: nominal amount of *transactions* (plus collateral value in secured segment)
 - **Trade date**, settlement date and **maturity** date
 - **Not reported**: margin calls, collateral substitution, other life-cycle events, amounts outstanding
- Counterparty identification: LEI if assigned, otherwise ESA Sector + country code
- Collateral identification: ISIN if assigned, otherwise CFI asset type + ESA issuer sector

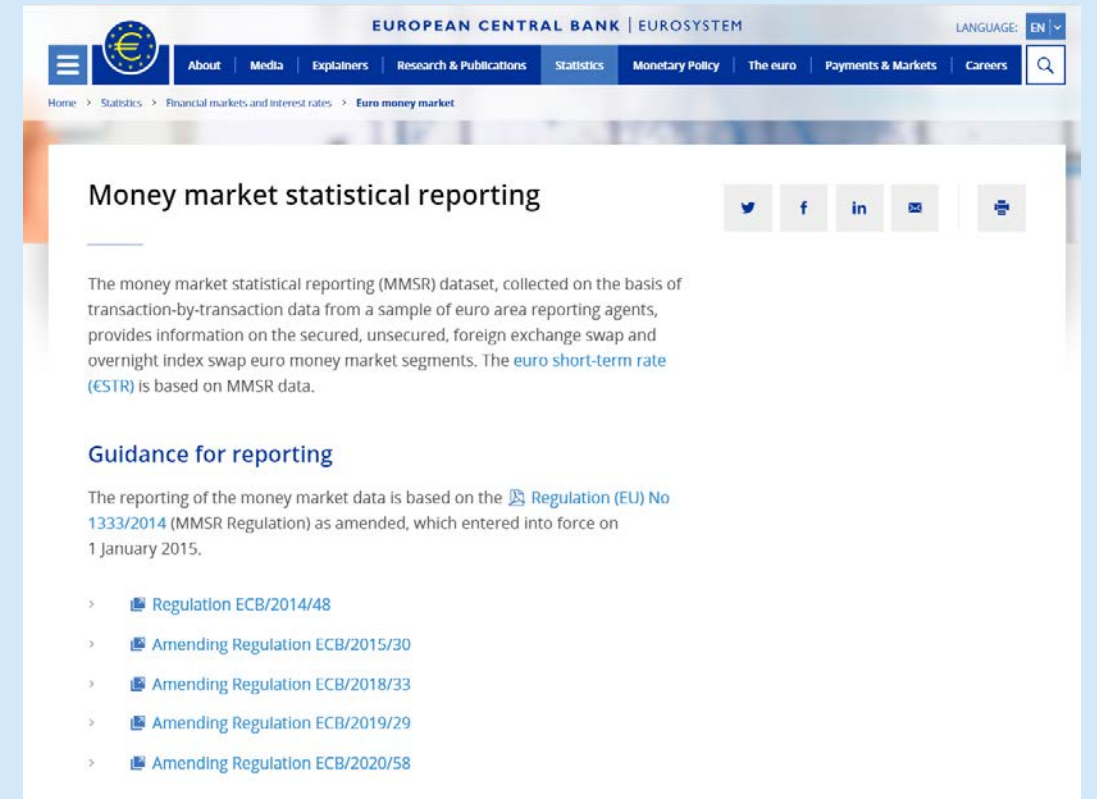


Money market statistical reporting (MMSR)

Documentation

https://www.ecb.europa.eu/stats/financial_markets_and_interest_rates/money_market

- MMSR Regulation and amending Regulations
- Reporting Instructions
- Data Quality Checks
- Q&A
- XML-schemas
- List of MMSR RAs
- Methodological notes
- Additional material



The screenshot shows the ECB website page for "Money market statistical reporting". The page header includes the ECB logo, navigation menu (About, Media, Explainers, Research & Publications, Statistics, Monetary Policy, The euro, Payments & Markets, Careers), and a search bar. The main content area features the title "Money market statistical reporting" with social media sharing icons (Twitter, Facebook, LinkedIn, Email, Print). Below the title is a paragraph explaining that the MMSR dataset is collected from transaction-by-transaction data from euro area reporting agents, providing information on secured, unsecured, foreign exchange swap, and overnight index swap euro money market segments. It also mentions that the euro short-term rate (ESTR) is based on MMSR data. A section titled "Guidance for reporting" states that the reporting is based on Regulation (EU) No 1333/2014 (MMSR Regulation) as amended, which entered into force on 1 January 2015. A list of amending regulations is provided, including Regulation ECB/2014/48 and several amending regulations from 2015 to 2020.

Money market statistical reporting (MMSR)

Data quality control (I)

- **Synchronous** with reception:
 - Compliance with **transmission format** (e.g. XML schema) → file rejected if incompliant
 - **Basic business checks** (e.g. maturity date > trade date; hard limits on rates and amounts; missing mandatory information) → if fail, transaction not accepted & automatic notification to the sender
- **Daily**, after all transactions received :
 - **Plausibility** of the data with respect to **time-series and cross-sectional** criteria
 - Reporting agent is expected to confirm / provide explanation for unusual transactions or developments; answers systematically recorded
 - If errors identified, amendments required within 10 days



Money market statistical reporting (MMSR)

Data quality control (II)

- Monthly / quarterly:
 - **Performance reports** supplied to the reporting agents on the timeliness and completeness of their submissions
 - Review of **corrective action plans** agreed with reporting agents on structural issues
 - **Paring and matching** of transactions between reporting counterparties:
 - Very powerful to uncover misreported transactions and / or conceptual issues that might require follow-up
 - **Unpaired transactions**: can reveal transactions within scope but unreported, or out of scope but reported; sometimes wrong counterparty details instead
 - **Unmatched transactions**: successfully paired transactions but containing different details: may reveal conceptual inaccuracies, differences in interpretation, IT issues, wrong counterparty, or any other error
 - Matching against complementary sources (e.g. EMIR, SFTR): not yet in full use



Money market statistical reporting (MMSR)

The data: what does it reveal

- **Transmission** of the ECB policy measures to the MM:
 - On the pricing of MM transactions (direct target of most operations)
 - On traded volumes and their composition (to assess other effects and special measures)
- **Structural developments** in the MM:
 - Slowly-evolving trends (e.g. more secured transactions, use of clearers, use of collateral, shifts in counterparty composition)
 - Geographical fragmentation by counterparties and/or collateral
 - Cross-border transactions, market concentration, presence and nature of bottlenecks

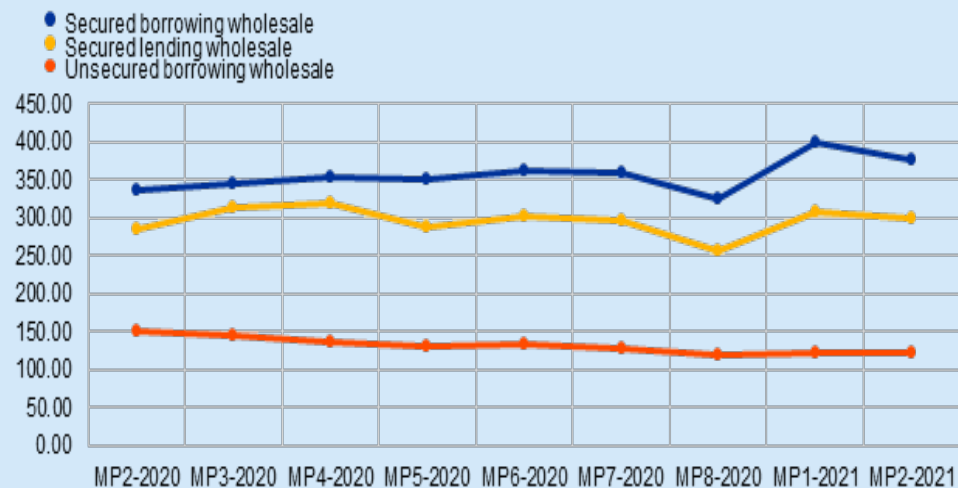


Money market statistical reporting (MMSR)

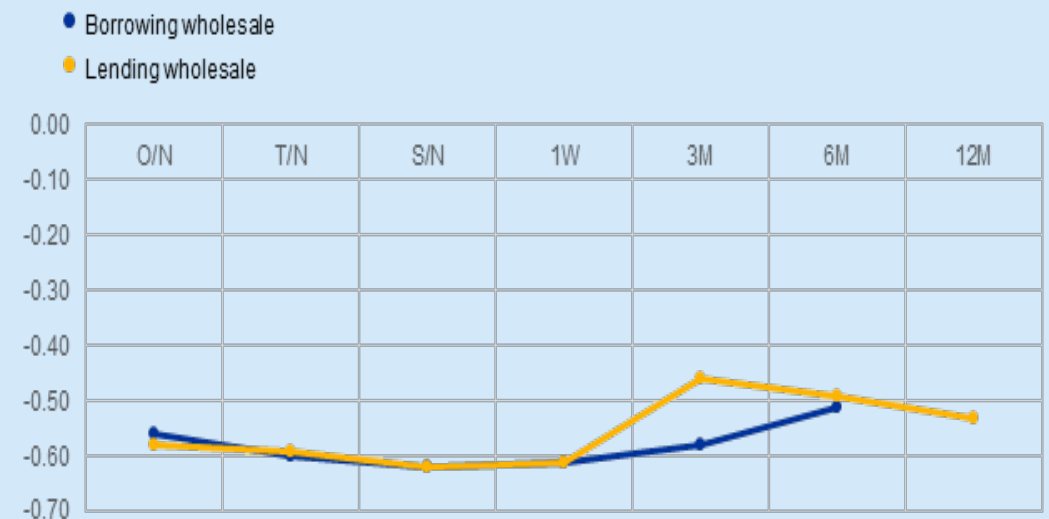
Publication: MMSR press release & SDW time-series

- Aggregate figures on unsecured and secured segments by reserve maintenance period (MP)

Turnover, unsecured & secured



Weighted average rates, secured, MP2-2021

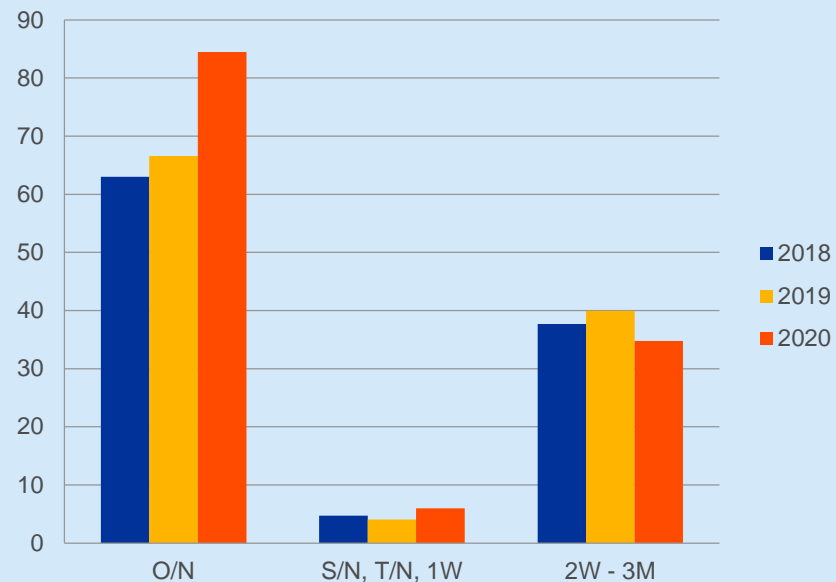


Money market statistical reporting (MMSR)

Use of MMSR data in other publications

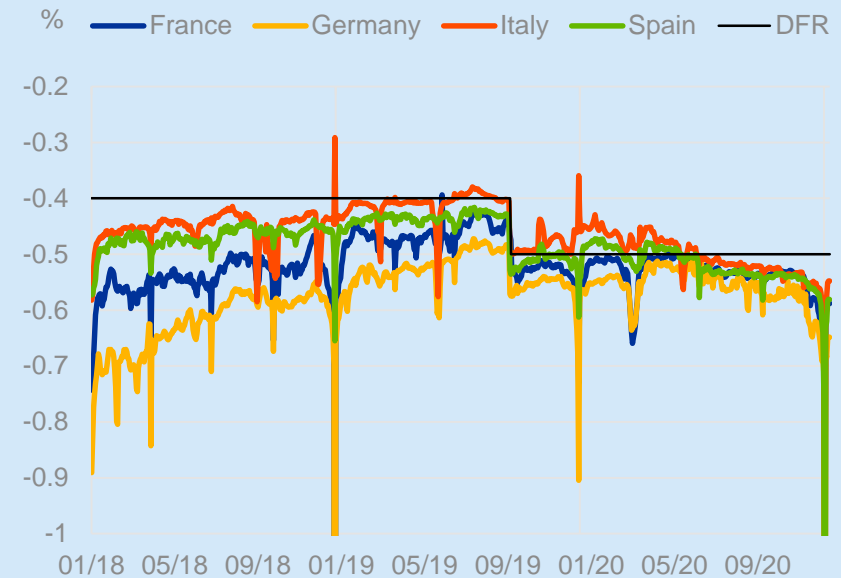
- Euro money market study

Maturity of unsecured segment transactions



In EUR billions. Combines borrowing and lending.

One-day repo rates per jurisdiction of collateral



Volume-weighted rate per collateral jurisdiction – only government collateral included, borrowing and lending. Scale is limited to -1%, for readability. Includes O/N, T/N and S/N maturities.

Thank you

Happy to receive any question or comment at the Q&A session on 13 July, 14 c.t.

