

# 50 Financial System Indicators

Updated: November 15<sup>th</sup>, 2017

| <i>Highlights</i>  |                      |                   |
|--|----------------------|-------------------|
| Indicator  | Last value available | Corresponding to: |
| Bank lending to other resident sectors (monthly average % var.)  | -0.8                 | August 2017       |
| Other resident sectors' deposits in credit institutions (monthly average % var.)                           | 0.4                  | August 2017       |
| Doubtful loans (monthly % var.)  | -5.5                 | August 2017       |
| Recourse to the Eurosystem L/T (Eurozone financial institutions, million euros)                            | 767,646              | July 2017         |
| Recourse to the Eurosystem L/T (Spanish financial institutions, million euros)                             | 171,832              | July 2017         |
| Recourse to the Eurosystem (Spanish financial institutions million euros)<br>- Main refinancing operations | 54                   | July 2017         |
| "Operating expenses/gross operating income" ratio (%)  | 54.41                | March 2017        |
| "Customer deposits/employees" ratio (thousand euros)   | 6,471,37             | March 2017        |
| "Customer deposits/branches" ratio (thousand euros)  | 43,124.24            | March 2017        |
| "Branches/institutions" ratio  | 137.88               | March 2017        |

## A. Money and Interest Rates

| Indicator  | Source        | Average 2001-2014 | 2015 | 2016  | 2017 October | 2017 15 <sup>th</sup> November | Definition and calculation   |
|--|---------------|-------------------|------|-------|--------------|--------------------------------|--|
| 1. Monetary Supply (% chg.)                          | ECB           | 5.4               | 4.7  | 5.0   | 7.1          | -                              | M3 aggregate change (non-stationary)   |
| 2. Three-month interbank interest rate               | Bank of Spain | 2.19              | -0.1 | -0.26 | -0.331       | -0.329                         | Daily data average   |
| 3. One-year Euribor interest rate (from 1994)        | Bank of Spain | 2.5               | 0.2  | -0.03 | -0.184       | -0.191                         | End-of-month data  |
| 4. Ten-year Treasury bonds interest rate (from 1998) | Bank of Spain | 4.4               | 1.7  | 1.4   | 1.5          | 1.5                            | Market interest rate (not exclusively between account holders)                   |
| 5. Corporate bonds average interest rate             | Bank of Spain | 4.3               | 2.1  | 2.3   | -            | -                              | End-of-month straight bonds average interest rate (> 2 years) in the AIAF market |

Comment on "Money and Interest Rates": There was a heterogeneous evolution of interbank rates in the first fortnight of November. The 3-month interbank rate slightly increased to -0.329% from -0.331% in October and the 1-year Euribor decreased to -0.191% from -0.184% in October. The ECB announced an acceleration of tapering but the stance of monetary policy will still continue to be expansive. As for the Spanish 10-year bond yield, it has remained at 1.5%.

## B. Financial Markets

| Indicator  | Source                                  | Average 2001-2014 | 2015     | 2016    | 2017 August | 2017 September | Definition and calculation   |
|--|---|-------------------|----------|---------|-------------|----------------|--|
| 6. Outright spot treasury bills transactions trade ratio                       | Bank of Spain                           | 39.0              | 75.5     | 102.6   | 70.35       | 72.84          | (Traded amount/outstanding balance) x100 in the market (not exclusively between account holders) |
| 7. Outright spot government bonds transactions trade ratio                     | Bank of Spain                           | 78.4              | 65.3     | 55.1    | 53.37       | 42.17          | (Traded amount/outstanding balance) x100 in the market (not exclusively between account holders) |
| 8. Outright forward treasury bills transactions trade ratio                    | Bank of Spain                           | 1.1               | 1.3      | 0.4     | 0.02        | 1.01           | (Traded amount/outstanding balance) x100 in the market (not exclusively between account holders) |
| 9. Outright forward government bonds transactions trade ratio                  | Bank of Spain                           | 4.7               | 3.4      | 1.9     | 1.20        | 2.96           | (Traded amount/outstanding balance) in the market (not exclusively between account holders)      |
| 10. Three-month maturity treasury bills interest rate                          | Bank of Spain                           | 2.0               | 0.0      | 0.0     | 0.08        | -0.38          | Outright transactions in the market (not exclusively between account holders)                    |
| 11. Government bonds yield index (Dec 1987=100)                                | Bank of Spain                           | 642.9             | 1,058.2  | 1,104.9 | 1,110.91    | 1,107.77       | Outright transactions in the market (not exclusively between account holders)                    |
| 12. Madrid Stock Exchange Capitalization (monthly average % chg.)              | Bank of Spain and Madrid Stock Exchange | 0.3               | 0.5      | 0.2     | -1.9        | 0.4            | Change in the total number of resident companies   |
| 13. Stock market trading volume. Stock trading volume (monthly average % var.) | Bank of Spain and Madrid Stock Exchange | 4.1               | -0.2     | 0.7     | 25.7        | 25.7           | Stock market trading volume. Stock trading volume: change in total trading volume                |
| 14. Madrid Stock Exchange general index (Dec 1985=100)                         | Bank of Spain and Madrid Stock Exchange | 1,038.3           | 965.1    | 943.6   | 1,044.1     | 1,011.1 (a)    | Base 1985=100  |
| 15. Ibex-35 (Dec 1989=3000)  | Bank of Spain and Madrid Stock Exchange | 9,750.4           | 10,647.2 | 8,790.9 | 10,361.1    | 9,990.4 (a)    | Base dec 1989=3000   |
| 16. Madrid Stock Exchange PER ratio (share value/profitability)                | Bank of Spain and Madrid Stock Exchange | 16.7              | 15.4     | 23.6    | 15.7(a)     | 15.1(a)        | Madrid Stock Exchange Ratio "share value/ capital profitability"                                 |
| 17. Long-term bonds. Stock trading volume (% chg.)                             | Bank of Spain and Madrid Stock Exchange | 4.9               | 21.3     | 55.9    | -           | -              | Variation for all stocks   |

## B. Financial Markets (continued)

| Indicator   | Source                 | Average<br>2001-2014 | 2015 | 2016 | 2017<br>August | 2017<br>September | Definition and calculation            |
|---|------------------------|----------------------|------|------|----------------|-------------------|---------------------------------------|
| 18. Commercial paper. Trading balance (% chg.)                | Bank of Spain and AIAF | 1.9                  | -0.2 | 0.1  | -10            | -                 | AIAF fixed-income market              |
| 19. Commercial paper. Three-month interest rate               | Bank of Spain and AIAF | 2.5                  | 0.1  | 0.0  | -022           | -                 | AIAF fixed-income market              |
| 20. IBEX-35 financial futures concluded transactions (% chg.) | Bank of Spain          | 1.6                  | 1.3  | -0.4 | 34             | -                 | IBEX-35 shares concluded transactions |
| 21. IBEX-35 financial options concluded transactions (% chg.) | Bank of Spain          | 8.9                  | 17.7 | 5.8  | -158           | -                 | IBEX-35 shares concluded transactions |

(a) Last data published: November 15<sup>th</sup>, 2017

Comment on "Financial Markets": During September, there was an increase in transactions with outright spot T-bills to 72.84% and a fall of spot government bonds transactions, which stood at 42.17%. The stock market has registered a fall in the first fortnight of November compared to the end of October, with the IBEX-35 down to 9,990 points, and the General Index of the Madrid Stock Exchange to 1,011.

## C. Financial Saving and Debt

| Indicator  | Source        | Average<br>2008-2013 | 2014  | 2015  | 2016  | 2017<br>Q2 | Definition and calculation   |
|--|---------------|----------------------|-------|-------|-------|------------|--|
| 22. Net Financial Savings/GDP (National Economy)   | Bank of Spain | -2.8                 | 1.6   | 2.2   | 2.1   | 2.0        | Difference between financial assets and financial liabilities flows over GDP                       |
| 23. Net Financial Savings/GDP (Households and non-profit institutions)                               | Bank of Spain | 2.5                  | 3.4   | 3.6   | 2.6   | 1.8        | Difference between financial assets and financial liabilities flows over GDP                       |
| 24. Debt in securities (other than shares) and loans/GDP (National Economy)                          | Bank of Spain | 288.1                | 320.0 | 302.3 | 297.0 | 295.0      | Public debt. non-financial companies debt and households and non-profit institutions debt over GDP |
| 25. Debt in securities (other than shares) and loans/GDP (Households and non-profit institutions)    | Bank of Spain | 81.4                 | 72.4  | 67.5  | 64.4  | 63.6       | Households and non-profit institutions debt over GDP   |
| 26. Households and non-profit institutions balance: financial assets (quarterly average % chg.)      | Bank of Spain | 0.6                  | 2.1   | 1.7   | 0.6   | 0.8        | Total assets percentage change (financial balance)   |
| 27. Households and non-profit institutions balance: financial liabilities (quarterly average % chg.) | Bank of Spain | -1.8                 | -4.0  | -2.9  | 1.1   | 1.7        | Total liabilities percentage change (financial balance)  |

Comment on "Financial Savings and Debt": During 2017Q2, the financial savings to GDP in the overall economy fell to 2.0% of GDP. There was also a decrease in the financial savings rate of households from 2.6% in 2016Q4 to 1.8% in 2017Q2. The debt to GDP ratio fell to 63.6%. Finally, the stock of financial assets on households' balance sheets registered an increase of 0.8%, and there was a 1.7% increase in the stock of financial liabilities.

## D. Credit institutions. Business Development

| Indicator   | Source        | Average 2001-2014 | 2015  | 2016  | 2017 July | 2017 August | Definition and calculation   |
|---|---------------|-------------------|-------|-------|-----------|-------------|--|
| 28. Bank lending to other resident sectors (monthly average % var.)   | Bank of Spain | 7.5               | -4.0  | -4.1  | -0.4      | -0.8        | Lending to the private sector percentage change for the sum of banks, savings banks and credit unions  |
| 29. Other resident sectors' deposits in credit institutions (monthly average % var.)  | Bank of Spain | 8.0               | -0.1  | -0.1  | -1.7      | 0.4         | Deposits percentage change for the sum of banks, savings banks and credit unions   |
| 30. Debt securities (monthly average % var.)  | Bank of Spain | 10.0              | -15.2 | -11.6 | -1.1      | 0.7         | Asset-side debt securities percentage change for the sum of banks, savings banks and credit unions   |
| 31. Shares and equity (monthly average % var.)  | Bank of Spain | 10.0              | -5.9  | -1.0  | 2.8       | -0.7        | Asset-side equity and shares percentage change for the sum of banks, savings banks and credit unions   |
| 32. Credit institutions. Net position (difference between assets from credit institutions and liabilities with credit institutions) (% of total assets) | Bank of Spain | -2.1              | -5.2  | -4.5  | -4.1      | -3.7        | Difference between the asset-side and liability-side "Credit System" item as a proxy of the net position in the interbank market (month-end) |
| 33. Doubtful loans (monthly average % var.)   | Bank of Spain | 39.8              | -22.4 | -13.6 | 0.1       | -5.5        | Doubtful loans. Percentage change for the sum of banks, savings banks and credit unions  |
| 34. Assets sold under repurchase (monthly average % var.)   | Bank of Spain | -2.1              | -30.8 | -22.2 | -5.3      | -7.7        | Liability-side assets sold under repurchase. Percentage change for the sum of banks, savings banks and credit unions                         |
| 35. Equity capital (monthly average % var.)   | Bank of Spain | 8.8               | -1.8  | -0.3  | 6.8       | 0.4         | Equity percentage change for the sum of banks, savings banks and credit unions   |

Comment on "Credit institutions. Business Development": The latest available data as of August 2017 show a decrease in bank credit to the private sector of 0.8%. Data also show a growth in financial institutions deposit-taking of 0.4%. Holdings of debt securities increased by 0.7%. Doubtful loans decreased 5.5% compared to the previous month.

## E. Credit institutions. Market Structure and Eurosystem Refinancing

| Indicator  | Source        | Average<br>2000-2013 | 2014    | 2015    | 2016<br>December | 2017<br>March | Definition and calculation  |
|--|---------------|----------------------|---------|---------|------------------|---------------|---|
| 36. Number of Spanish credit institutions  | Bank of Spain | 199                  | 138     | 135     | 124              | 123           | Total number of banks, savings banks and credit unions operating in Spanish territory |
| 37. Number of foreign credit institutions operating in Spain   | Bank of Spain | 73                   | 86      | 82      | 82               | 83            | Total number of foreign credit institutions operating in Spanish territory            |
| 38. Number of employees  | Bank of Spain | 246,418              | 203,305 | 203,305 | 202,954          | 194,283       | Total number of employees in the banking sector                                       |
| 39. Number of branches   | Bank of Spain | 40,703               | 31,817  | 30,921  | 28,807           | 208,404       | Total number of branches in the banking sector  |
| 40. Recourse to the Eurosystem: long term (total Eurozone financial institutions) (Euro millions)                  | Bank of Spain | -                    | 406,285 | 460,858 | 527,317          | 767,646(a)    | Open market operations and ECB standing facilities. Eurozone total                    |
| 41. Recourse to the Eurosystem: long term (total Spanish financial institutions) (Euro millions)                   | Bank of Spain | -                    | 111,338 | 122,706 | 138,455          | 171,832(a)    | Open market operations and ECB standing facilities. Spain total                       |
| 42. Recourse to the Eurosystem (total Spanish financial institutions): main refinancing operations (Euro millions) | Bank of Spain | 22,794               | 21,115  | 10,515  | 1,408            | 54(a)         | Open market operations: main long term refinancing operations. Spain total            |

(a) Last data published: July 2017

Comment on "Credit institutions. Market Structure and Eurosystem Refinancing": In July 2017, recourse to Eurosystem funding by Spanish credit institutions reached 171.83 billion euro.

MEMO ITEM: From January 2015, the ECB also offers information on the asset purchase programs. The amount borrowed by Spanish banks in these programs reached 270.7 billion euro in March and 2.09 trillion euro for the entire Eurozone banking system.

## F. Credit institutions. Efficiency and Productivity, Risk and Profitability

| Indicator  | Source        | Average<br>2000-2013 | 2014      | 2015      | 2016<br>December | 2017<br>March | Definition and calculation   |
|--|---------------|----------------------|-----------|-----------|------------------|---------------|--|
| 43. "Operating expenses/gross operating income" ratio    | Bank of Spain | 50.89                | 47.27     | 50.98     | 54.18            | 54.41         | Operational efficiency indicator. Numerator and denominator are obtained directly from credit institutions' P&L accounts |
| 44. "Customer deposits/employees" ratio (Euro thousands) | Bank of Spain | 3,519.51             | 5,892.09  | 5,595.62  | 5,600.48         | 6,471.37      | Productivity indicator (business by employee)  |
| 45. "Customer deposits/branches" ratio (Euro thousands)  | Bank of Spain | 21,338.27            | 40,119.97 | 36,791.09 | 39,457.04        | 43,124.24     | Productivity indicator (business by branch)  |

F. Credit institutions. Efficiency and Productivity, Risk and Profitability (continued)

| Indicator                                       | Source           | Average<br>2000-2013 | 2014   | 2015   | 2016<br>December | 2017<br>March | Definition and calculation   |
|---|------------------|----------------------|--------|--------|------------------|---------------|--|
| 46. "Branches/institutions" ratio               | Bank<br>of Spain | 205.80               | 142.85 | 229.04 | 139.84           | 137.88        | Network expansion indicator  |
| 47. "Employees/branches" ratio                  | Bank<br>of Spain | 6.1                  | 6.8    | 6.57   | 7.05             | 6.67          | Branch size indicator  |
| 48. "Equity capital<br>(monthly average % var.) | Bank<br>of Spain | 0.11                 | 0.07   | 0.01   | -0.62            | 0.78          | Credit institutions equity<br>capital variation indicator                              |
| 49. ROA   | Bank<br>of Spain | 0.45                 | 0.49   | 0.39   | 0.26             | 0.29          | Profitability indicator, de-<br>fined as the "pre-tax profit/<br>average total assets" |
| 50. ROE   | Bank<br>of Spain | 6.27                 | 6.46   | 5.04   | 3.12             | 3.42          | Profitability indicator, de-<br>fined as the "pre-tax profit/<br>equity capital"       |

Comment on "Credit institutions. Efficiency and Productivity, Risk and Profitability": In March 2017, most of the profitability and efficiency indicators improved for Spanish banks. Productivity indicators have also improved since the restructuring process of the Spanish banking sector was implemented.