

Business and Consumer Surveys

October 2016

The consumer confidence indicator increases and the economic climate indicator decreases slightly

The Consumer confidence indicator increased in September and October, after decreasing in the three previous months.

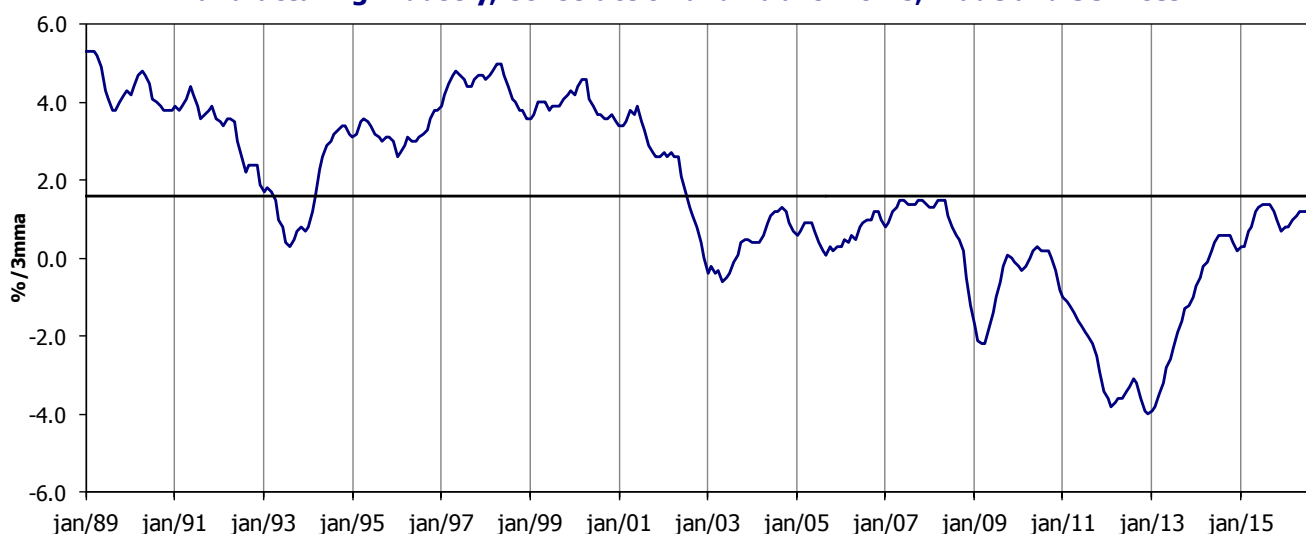
The economic climate indicator diminished slightly in October but remained close to the values observed in the two previous months. In October, the confidence indicator increased in Manufacturing Industry and in Construction and Public Works and slightly decreased in Trade and in Services.

The increase of the Consumer¹ confidence indicator in the last two months was driven by the positive contribution of all components, namely the perspectives on the evolution of the country's economic situation, on the household's financial situation, on the unemployment and on savings.

In Manufacturing Industry, the confidence indicator increased, after stabilizing in the previous month, led by a positive contribution of the production perspectives and of the opinions on the stocks of finished products' evolution, while the opinions on global demand slightly declined. In Construction and Public Works, the confidence indicator has increased since July, due to the positive evolution in the last month of the opinions on the order books'. The confidence indicator for Trade slightly diminished in October, after increasing since April, reflecting the negative contribution of the opinions on the sales evolution. The Services' confidence indicator also diminished slightly in October, after increasing in the two previous months, driven by the negative evolution of the perspectives on the demand evolution and of the opinions on the business activity.

Graphic 1

**Economic Climate indicator
- Manufacturing Industry, Construction and Public Works, Trade and Services -**



¹ Unless stated otherwise, the analysis in this press release refers to three-month moving averages for the monthly series and to two-quarter moving averages for the quarterly ones.

Confidence indicators and their underlying series and economic climate indicator (3mma)

| | Unit | First Period | Average* | Minimum | | Maximum | | 2015 | | | 2016 | | | | | | | | | | |
|--|-------------------|---------------|--------------|--------------|---------------|-------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|
| | | | | Value | Date | Value | Date | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | |
| 1 Consumers - confidence indicator (2+3-4+5)/4 (b) | balance | Sep-97 | -24.5 | -53.3 | Dec-12 | -1.4 | Oct-97 | -11.2 | -13.7 | -14.1 | -12.6 | -11.3 | -11.3 | -12.4 | -11.9 | -12.6 | -13.0 | -13.3 | -12.4 | -11.6 | |
| 2 Financial situation of the households over the next 12 months (b) | balance | Sep-97 | -8.8 | -34.5 | Dec-12 | 7.6 | Jul-99 | -2.8 | -3.3 | -2.9 | -1.2 | -0.7 | -0.8 | -1.5 | -0.9 | -1.4 | -1.1 | -1.4 | -0.6 | -0.5 | |
| 3 General economic situation in the country over the next 12 months (b) | balance | Sep-97 | -22.3 | -63.7 | Dec-12 | 7.5 | Oct-97 | -0.4 | -5.8 | -7.4 | -5.8 | -4.0 | -4.2 | -5.9 | -4.2 | -4.6 | -6.5 | -7.3 | -7.0 | -6.0 | |
| 4 Unemployment over the next 12 months (b) | balance | Sep-97 | 39.8 | 5.7 | Mar-16 | 79.7 | Mar-09 | 7.8 | 10.1 | 10.9 | 9.3 | 6.5 | 5.7 | 5.7 | 6.6 | 8.0 | 8.5 | 8.9 | 7.5 | 6.3 | |
| 5 Savings over the next 12 months (b) | balance | Sep-97 | -26.9 | -42.2 | May-13 | 0.4 | Oct-97 | -34.0 | -35.8 | -35.4 | -34.1 | -33.9 | -34.4 | -36.4 | -35.8 | -36.5 | -35.7 | -35.5 | -34.5 | -33.6 | |
| 6 Manufacturing industry - confidence indicator (7+8-9)/3 (a) | balance/sa | Jan-87 | -3.0 | -30.4 | Feb-09 | 18.0 | May-87 | -0.9 | -1.4 | -1.8 | -1.2 | -0.9 | -1.1 | -1.8 | -2.1 | -1.5 | -1.3 | -1.1 | -1.1 | -0.4 | |
| 7 Demand/order books (a) | balance | Jan-87 | -14.8 | -64.4 | Apr-09 | 14.6 | Jun-87 | -7.2 | -9.2 | -10.3 | -9.4 | -9.4 | -9.8 | -10.8 | -10.0 | -8.5 | -7.1 | -7.2 | -7.0 | -7.1 | |
| 8 Production over the next 3 months (a) | balance/sa | Jan-87 | 9.3 | -24.4 | Feb-09 | 32.9 | Mar-87 | 8.7 | 9.4 | 9.6 | 10.7 | 11.2 | 11.1 | 9.6 | 7.5 | 7.1 | 6.6 | 7.9 | 7.6 | 8.9 | |
| 9 Stocks of finished goods (a) | balance | Jan-87 | 3.4 | -9.1 | Sep-87 | 21.6 | Jul-93 | 4.1 | 4.5 | 4.7 | 4.9 | 4.5 | 4.6 | 4.2 | 3.7 | 3.1 | 3.4 | 4.0 | 3.8 | 3.1 | |
| 10 Construction and public works - confidence indicator (11+12)/2 (a) | balance | Apr-97 | -27.5 | -68.1 | Nov-12 | 18.9 | Sep-97 | -34.1 | -35.9 | -36.4 | -34.8 | -34.1 | -32.8 | -33.1 | -32.6 | -32.7 | -32.1 | -31.0 | -29.6 | -29.2 | |
| 11 Current order books (a) | balance | Apr-97 | -40.8 | -79.8 | Dec-12 | 15.9 | Nov-97 | -46.2 | -47.8 | -47.5 | -47.7 | -47.7 | -47.1 | -46.5 | -47.0 | -47.2 | -45.5 | -42.4 | -40.3 | -39.4 | |
| 12 Employment over the next 3 months (a) | balance | Apr-97 | -14.3 | -56.7 | Nov-12 | 25.9 | Aug-97 | -22.0 | -24.0 | -25.3 | -22.0 | -20.5 | -18.6 | -19.6 | -18.2 | -18.3 | -18.6 | -19.6 | -18.9 | -18.9 | |
| 13 Trade - confidence indicator (16+19-22)/3 (a)***** | balance/sa | Jan-89 | -2.1 | -22.3 | Jan-12 | 11.0 | Jun-98 | 1.3 | 0.5 | 0.4 | -0.3 | -0.2 | -0.5 | 0.7 | 1.8 | 3.4 | 4.7 | 6.4 | 6.9 | 6.8 | |
| 14 -Wholesale (a)***** | balance/sa | Jan-89 | -0.4 | -19.2 | Jan-12 | 12.6 | Jun-98 | 0.7 | -0.4 | -0.5 | -0.8 | -0.4 | -0.8 | 0.5 | 1.4 | 3.0 | 4.0 | 5.9 | 6.6 | 5.7 | |
| 15 -Retail trade (a) | balance/sa | Jan-89 | -3.7 | -27.7 | Apr-09 | 10.9 | Aug-98 | 1.0 | 1.3 | 1.8 | 1.4 | 1.1 | 0.5 | 1.0 | 1.4 | 2.1 | 2.9 | 4.1 | 4.2 | 4.8 | |
| 16 Sales over the past 3 months (a) | balance/sa | Jan-89 | -7.1 | -45.4 | Jan-12 | 16.3 | Sep-16 | 5.5 | 3.9 | 3.7 | 2.2 | 2.1 | 2.0 | 4.5 | 5.2 | 7.3 | 9.6 | 14.8 | 16.3 | 15.8 | |
| 17 - Wholesale (a)***** | balance/sa | Jan-89 | -5.9 | -41.2 | Jan-12 | 16.7 | Apr-89 | 3.8 | 1.6 | 2.1 | 2.0 | 2.3 | 1.7 | 3.3 | 2.9 | 4.6 | 6.2 | 12.7 | 14.6 | 12.9 | |
| 18 - Retail trade (a) | balance/sa | Jan-89 | -8.2 | -56.1 | Aug-12 | 17.4 | Apr-99 | 5.6 | 5.9 | 5.8 | 4.4 | 4.3 | 4.9 | 6.9 | 6.4 | 6.3 | 7.6 | 10.2 | 10.7 | 10.7 | |
| 19 Business situation over the next 3 months*** (a) | balance/sa | Jan-89 | 10.6 | -25.8 | Apr-12 | 33.9 | Dec-89 | 3.0 | 2.6 | 2.9 | 2.5 | 2.6 | 2.2 | 2.9 | 5.1 | 7.6 | 8.9 | 8.5 | 8.3 | 8.3 | |
| 20 - Wholesale (a)***** | balance/sa | Jan-89 | 12.6 | -20.9 | Oct-12 | 38.0 | Dec-89 | 4.0 | 2.9 | 2.4 | 1.5 | 2.1 | 2.3 | 4.2 | 6.9 | 9.7 | 10.7 | 9.9 | 10.0 | 8.6 | |
| 21 - Retail trade (a) | balance/sa | Jan-89 | 9.2 | -32.5 | Apr-12 | 38.5 | Sep-94 | 1.3 | 2.1 | 4.3 | 4.9 | 3.9 | 1.5 | 0.8 | 2.0 | 3.9 | 5.0 | 5.1 | 4.8 | 6.7 | |
| 22 Volume of stock (a) | balance | Jan-89 | 10.0 | -10.0 | Apr-13 | 28.8 | Aug-90 | 4.7 | 4.9 | 5.5 | 5.6 | 5.4 | 5.7 | 5.3 | 5.0 | 4.7 | 4.4 | 4.1 | 3.9 | 3.7 | |
| 23 - Wholesale (a)***** | balance | Jan-89 | 7.9 | -10.4 | Dec-12 | 27.9 | Aug-90 | 5.6 | 5.6 | 6.0 | 6.0 | 5.7 | 6.3 | 5.8 | 5.6 | 5.3 | 4.7 | 4.9 | 4.8 | 4.4 | |
| 24 - Retail trade (a) | balance | Jan-89 | 12.1 | -11.6 | Mar-13 | 29.8 | Jun-90 | 3.8 | 4.1 | 4.8 | 5.1 | 4.9 | 5.0 | 4.6 | 4.3 | 4.0 | 3.9 | 3.1 | 2.9 | 2.9 | |
| 25 Services - confidence indicator (26+27+28)/3 (a) | balance/sa | Apr-01 | -0.4 | -28.2 | Nov-12 | 25.7 | Apr-01 | 9.0 | 8.2 | 6.8 | 5.9 | 5.2 | 5.9 | 8.6 | 7.7 | 7.6 | 5.7 | 7.9 | 8.5 | 8.3 | |
| 26 Business situation over the past 3 months** (a) | balance/sa | Apr-01 | -3.6 | -34.6 | Dec-12 | 29.0 | Jun-01 | 9.9 | 7.1 | 4.9 | 3.6 | 3.7 | 4.7 | 7.8 | 5.5 | 6.0 | 4.2 | 7.7 | 7.9 | 6.9 | |
| 27 Demand over the next 3 months (a) | balance/sa | Apr-01 | 5.0 | -18.1 | Apr-12 | 21.1 | Mar-02 | 11.5 | 12.0 | 13.2 | 12.9 | 11.5 | 10.9 | 11.4 | 13.1 | 12.8 | 13.6 | 14.2 | 14.0 | 11.9 | |
| 28 Demand/order books over the past 3 months (a) | balance/sa | Apr-01 | -2.6 | -32.3 | Nov-12 | 27.8 | Apr-01 | 5.7 | 5.5 | 2.3 | 1.1 | 0.4 | 2.1 | 6.5 | 4.7 | 3.8 | -0.7 | 1.8 | 3.5 | 6.0 | |
| 29 Economic climate indicator ***** | %/3mma | Jan-89 | 1.6 | -4.0 | Dec-12 | 5.3 | Mar-89 | 1.2 | 1.0 | 0.7 | 0.8 | 0.8 | 1.0 | 1.1 | 1.2 | 1.2 | 1.2 | 1.2 | 1.3 | 1.4 | 1.3 |

* Series average since its beginning till the current observation.

** In May 2003 a break in the series occurred, until that moment the reference period was the month under review and afterwards it refers to the past 3 months.

*** In May 2003 a break in the series occurred, until that moment the question referred to the next 6 months.

**** From September 2004 onwards Services sector was included, besides industry, trade and construction.

***** The July 2016 values were revised in order to incorporate updated information.

(a) Data after April 2015 is computed using a new sample. Back data was rebased.

(b) Data after November 2014 is computed using a new sample. Back data was rebased.

Confidence indicators and their underlying series

| | Unit | First Period | Average* | Standard Deviation | Minimum | | Maximum | | 2015 | | | 2016 | | | | | | | | | |
|--|-------------------|---------------|--------------|--------------------|--------------|---------------|-------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | | | | Value | Date | Value | Date | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct |
| 1 Consumers - confidence indicator (2+3-4+5)/4 (b) | balance | Sep-97 | -24.5 | 13.7 | -54.7 | Oct-12 | -1.0 | Oct-97 | -13.4 | -17.3 | -11.7 | -8.8 | -13.3 | -11.7 | -12.1 | -11.9 | -13.9 | -13.1 | -12.7 | -11.3 | -10.7 |
| 2 Financial situation of the households over the next 12 months (b) | balance | Sep-97 | -8.8 | 10.6 | -35.6 | Oct-12 | 8.6 | Feb-99 | -4.2 | -3.8 | -0.8 | 0.9 | -2.3 | -0.9 | -1.3 | -0.6 | -2.3 | -0.5 | -1.2 | 0.1 | -0.2 |
| 3 General economic situation in the country over the next 12 months (b) | balance | Sep-97 | -22.4 | 18.7 | -64.4 | Oct-12 | 8.2 | Oct-97 | -2.5 | -15.7 | -4.1 | 2.5 | -10.2 | -4.8 | -2.6 | -5.1 | -6.2 | -8.2 | -7.4 | -5.6 | -5.0 |
| 4 Unemployment over the next 12 months (b) | balance | Sep-97 | 39.8 | 21.7 | 4.0 | Sep-15 | 85.5 | Feb-09 | 12.2 | 12.4 | 7.9 | 7.6 | 4.0 | 5.5 | 7.7 | 6.6 | 9.5 | 9.3 | 7.8 | 5.2 | 5.9 |
| 5 Savings over the next 12 months (b) | balance | Sep-97 | -27.0 | 10.1 | -42.6 | Nov-12 | 0.9 | Oct-97 | -34.5 | -37.4 | -34.1 | -30.9 | -36.8 | -35.6 | -36.7 | -35.1 | -37.6 | -34.4 | -34.4 | -34.6 | -31.8 |
| 6 Manufacturing industry - confidence indicator (7+8-9)/3 (a) | balance/sa | Jan-87 | -3.0 | 9.2 | -32.5 | Apr-09 | 19.0 | Mar-87 | -1.5 | -1.8 | -2.0 | 0.3 | -0.9 | -2.7 | -1.8 | -1.7 | -1.0 | -1.1 | -1.3 | -0.8 | 0.8 |
| 7 Demand/order books (a) | balance | Jan-87 | -14.8 | 16.8 | -66.4 | Apr-09 | 14.6 | Apr-87 | -9.8 | -10.7 | -10.5 | -7.0 | -10.6 | -11.7 | -9.9 | -8.4 | -7.1 | -5.6 | -8.8 | -6.7 | -5.6 |
| 8 Production over the next 3 months (a) | balance/sa | Jan-87 | 9.3 | 10.2 | -25.2 | Feb-09 | 34.0 | Feb-87 | 9.3 | 10.3 | 9.3 | 12.5 | 11.8 | 9.0 | 7.9 | 5.7 | 7.7 | 6.5 | 9.4 | 7.0 | 10.3 |
| 9 Stocks of finished goods (a) | balance | Jan-87 | 3.4 | 5.4 | -16.9 | Jan-08 | 23.2 | Jun-93 | 4.0 | 5.1 | 4.9 | 4.6 | 4.0 | 5.2 | 3.5 | 2.5 | 3.4 | 4.3 | 4.3 | 2.7 | 2.4 |
| 10 Construction and public works - confidence indicator (11+12)/2 (a) | balance | Apr-97 | -27.3 | 21.0 | -69.9 | Oct-12 | 20.2 | Sep-97 | -37.4 | -36.3 | -35.5 | -32.7 | -34.0 | -31.8 | -33.5 | -32.4 | -32.3 | -31.5 | -29.2 | -28.2 | -30.1 |
| 11 Current order books (a) | balance | Apr-97 | -40.6 | 22.8 | -82.2 | Oct-12 | 18.6 | Sep-97 | -48.6 | -47.2 | -46.8 | -49.1 | -47.1 | -45.0 | -47.5 | -48.3 | -45.7 | -42.5 | -38.9 | -39.6 | -39.7 |
| 12 Employment over the next 3 months (a) | balance | Apr-97 | -14.1 | 19.9 | -57.9 | Jan-12 | 29.9 | Jun-97 | -26.2 | -25.3 | -24.3 | -16.3 | -20.8 | -18.5 | -19.4 | -16.6 | -18.9 | -20.4 | -19.4 | -16.9 | -20.5 |
| 13 Trade - confidence indicator (16+19-22)/3 (a)**** | balance/sa | Jan-89 | -2.1 | 8.4 | -23.4 | Nov-11 | 11.9 | Jun-98 | 0.5 | -0.2 | 0.9 | -1.6 | 0.1 | 0.0 | 2.1 | 3.3 | 4.9 | 5.9 | 7.5 | 6.4 | 6.5 |
| 14 -Wholesale (a)**** | balance/sa | Jan-89 | -0.4 | 7.8 | -21.5 | Nov-11 | 14.0 | Apr-98 | -0.4 | -1.7 | 0.5 | -1.3 | -0.6 | -0.5 | 2.7 | 2.0 | 4.3 | 5.8 | 5.8 | 6.5 | 4.7 |
| 15 -Retail trade (a) | balance/sa | Jan-89 | -3.7 | 9.8 | -30.4 | Dec-08 | 12.4 | Jul-98 | 0.9 | 1.9 | 2.6 | -0.4 | 1.1 | 0.7 | 1.3 | 2.1 | 2.9 | 3.7 | 5.7 | 3.2 | 5.5 |
| 16 Sales over the past 3 months (a) | balance/sa | Jan-89 | -7.1 | 15.6 | -46.6 | Nov-11 | 19.0 | Feb-89 | 3.3 | 3.3 | 4.3 | -1.2 | 3.2 | 3.9 | 6.3 | 5.4 | 10.1 | 13.2 | 17.7 | 14.8 | 14.8 |
| 17 - Wholesale (a)**** | balance/sa | Jan-89 | -5.9 | 14.4 | -47.3 | Nov-11 | 22.8 | Feb-89 | 1.5 | -0.3 | 5.0 | 1.3 | 0.7 | 3.0 | 6.2 | -0.6 | 8.2 | 11.0 | 12.7 | 13.8 | 12.0 |
| 18 - Retail trade (a) | balance/sa | Jan-89 | -8.3 | 17.5 | -59.6 | Apr-09 | 20.0 | Apr-99 | 4.8 | 7.8 | 4.7 | 0.6 | 7.5 | 6.7 | 6.5 | 5.9 | 6.6 | 10.3 | 13.8 | 7.9 | 10.3 |
| 19 Business situation over the next 3 months*** (a) | balance/sa | Jan-89 | 10.6 | 16.1 | -28.5 | Sep-12 | 40.9 | Oct-89 | 3.8 | 2.3 | 2.7 | 2.5 | 2.7 | 1.4 | 4.5 | 9.3 | 9.0 | 8.3 | 8.2 | 8.6 | 8.2 |
| 20 - Wholesale (a)**** | balance/sa | Jan-89 | 12.5 | 14.5 | -26.6 | Oct-12 | 50.4 | Oct-89 | 4.3 | 2.2 | 0.8 | 1.5 | 3.9 | 1.3 | 7.2 | 12.3 | 9.7 | 10.1 | 9.9 | 10.2 | 5.6 |
| 21 - Retail trade (a) | balance/sa | Jan-89 | 9.1 | 18.9 | -34.3 | Sep-12 | 41.2 | Jul-94 | 1.9 | 3.5 | 7.6 | 3.5 | 0.7 | 0.3 | 1.3 | 4.3 | 6.1 | 4.6 | 4.6 | 5.3 | 10.2 |
| 22 Volume of stock (a) | balance | Jan-89 | 9.9 | 8.3 | -12.2 | Feb-13 | 29.1 | Jul-90 | 5.7 | 6.3 | 4.4 | 6.0 | 5.7 | 5.4 | 4.7 | 4.9 | 4.5 | 3.7 | 3.5 | 4.1 | 3.6 |
| 23 - Wholesale (a)**** | balance | Jan-89 | 7.9 | 7.8 | -13.9 | Oct-12 | 29.6 | Jul-90 | 6.9 | 6.9 | 4.3 | 6.7 | 6.3 | 5.9 | 5.3 | 5.6 | 5.0 | 3.6 | 5.3 | 4.6 | 3.4 |
| 24 - Retail trade (a) | balance | Jan-89 | 12.1 | 10.0 | -13.7 | Feb-13 | 36.5 | Jul-89 | 4.2 | 5.5 | 4.6 | 5.3 | 5.0 | 4.8 | 4.0 | 4.1 | 3.9 | 3.9 | 1.4 | 3.5 | 3.9 |
| 25 Services - confidence indicator (26+27+28)/3 (a) | balance/sa | Apr-01 | -0.5 | 11.6 | -31.4 | Oct-12 | 26.7 | Jun-01 | 8.0 | 7.7 | 4.7 | 5.2 | 5.7 | 6.9 | 13.1 | 3.2 | 6.4 | 7.6 | 9.7 | 8.1 | 7.1 |
| 26 Business situation over the past 3 months** (a) | balance/sa | Apr-01 | -3.7 | 13.2 | -36.9 | Oct-12 | 33.0 | Jun-01 | 6.8 | 5.9 | 1.9 | 3.0 | 6.1 | 5.1 | 12.2 | -0.9 | 6.8 | 6.8 | 9.3 | 7.4 | 4.0 |
| 27 Demand over the next 3 months (a) | balance/sa | Apr-01 | 4.9 | 10.7 | -19.5 | Feb-09 | 28.0 | Jun-06 | 13.4 | 12.8 | 13.5 | 12.4 | 8.6 | 11.8 | 13.7 | 13.7 | 11.0 | 16.0 | 15.7 | 10.2 | 9.8 |
| 28 Demand/order books over the past 3 months (a) | balance/sa | Apr-01 | -2.7 | 13.0 | -39.0 | Oct-12 | 27.8 | Apr-01 | 3.8 | 4.4 | -1.2 | 0.2 | 2.3 | 3.9 | 13.3 | -3.1 | 1.4 | -0.2 | 4.2 | 6.5 | 7.3 |

* Series average since its beginning till the current observation.

** In May 2003 a break in the series occurred, until that moment the reference period was the month under review and afterwards it refers to the past 3 months.

*** In May 2003 a break in the series occurred, until that moment the question referred to the next 6 months.

**** The July 2016 values were revised in order to incorporate updated information.

(a) Data after April 2015 is computed using a new sample. Back data was rebased.

(b) Data after November 2014 is computed using a new sample. Back data was rebased.

Notes

The Business and Consumer Qualitative Surveys published by Statistics Portugal are developed in the framework of the harmonized EU Business and Consumer Surveys Programme of the European Commission (EC) DG-ECFIN (*Directorate-General for Economic and Financial Affairs*) and are financially supported in the framework of the agreement signed between these two institutions. The questionnaires are harmonized among the European countries, as well as the respective confidence indicators' methodology. The surveys' results are sent to the EC in effective values, and, therefore, the seasonally adjusted values published by the EC are computed by this entity and presented without using three months moving averages. The seasonal adjustment method used by the EC is available on the user guide, accessible in:

http://ec.europa.eu/economy_finance/db_indicators/surveys/documents/bcs_user_guide_en.pdf

The text and graphics of this press release are based on three terms moving averages, for the monthly variables, and two terms, for the quarterly variables, and on original values, except the cases of the seasonally adjusted series. The seasonal adjustment uses the X13-Arima method (combination of moving averages process and auto-regressive integrated moving average models) developed in the JDemetra+² software provided by Eurostat. This application relies on the use of probabilistic models to correct seasonal effects from the original series. The seasonal treatment is updated in May, for monthly and quarterly series, which might result on a revision of the series previously published. The use of moving averages smoothes out the series by removing the irregular movements, allowing the detection of the short-term trends. Since the average is not centred (the information is used to analyse the evolution of the last month) there is a small lag compared with the trend that is supposed to detect.

In order to compare the difference between original and moving average series, the graphical representation of the confidence indicators presents both types of series. The average of the economic climate indicator is computed from the beginning of the series to the reference month.

The balances of the questions are the difference between the positive and negative answers, that is $\text{Balance} = \% \text{answer (+)} - \% \text{answer (-)}$. In the Consumer Survey there are questions with more than one option of positive/negative answer. In these cases, to the most positive/negative answers is given the weight 1 and to the others the weight 0.5, that is $\text{Balance} = [\% \text{answer (++)} * 1 + \% \text{answer (+)} * 0.5] - [\% \text{answer (--)} * 1 + \% \text{answer (-)} * 0.5]$. The percentage of answers that correspond to "equal" is not considered.

ECONOMIC CLIMATE INDICATOR

Synthetic Indicator estimated using balances of questions from the Manufacturing Industry, Trade, Construction and Public Works and Services Surveys. The method for this indicator uses the factor analysis and the estimated series (the common component) is calibrated using the GDP change rates. The questions that integrate the indicator are:

- Qualitative Manufacturing Industry survey
 - How has your production developed over the past 3 months? It has... 1. + increased; 2. = remained unchanged; 3. - decreased.
 - Do you consider your current overall order books to be...? 1. + more than sufficient (above normal); 2. = sufficient (normal for the season); 3. - not sufficient (below normal).
 - Do you consider your current export order books to be...? 1. + more than sufficient (above normal); 2. = sufficient (normal for the season); 3. - not sufficient (below normal).
 - Do you consider your current stock of finished products to be...? 1. + too large (above normal); 2. = adequate (normal for the season); 3. - too small (below normal).
 - How do you expect your production to develop over the next 3 months? It will... 1. + increase; 2. = remain unchanged; 3. - decrease.

² JDemetra+ is an open source tool for seasonal adjustment, available in: <http://www.cros-portal.eu/content/jdemetra>

Notes

- Qualitative Trade survey
 - How has (have) your business activity (sales) developed over the past 3 months? It has... (They have...) 1. + improved (increased); 2. = remained unchanged; 3. - deteriorated (decreased).
 - How do you expect your orders placed with suppliers to change over the next 3 months? They will... 1. + increase; 2. = remain unchanged; 3. - decrease.
 - Your business activity is currently...: 1. + more than sufficient; 2. = sufficient; 3. - not sufficient.
 - How do you expect your business activity (sales) to change over the next 3 months? It (They) will... 1. + improve (increase); 2. = remain unchanged 3. - deteriorate (decrease).
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- Qualitative Construction and Public Works survey
 - How has your building activity developed over the past 3 months? It has...; 1. + increased; 2. = remained unchanged; 3. - decreased.
 - Do you consider your current overall order books to be...?: 1. + more than sufficient (above normal); 2. = sufficient (normal for the season); 3. - not sufficient (below normal).
 - How do you expect your firm's total employment to change over the next 3 months? It will...; 1. + increase; 2. = remain unchanged; 3. - decrease.
- Qualitative Services survey
 - How has your business situation developed over the past 3 months? It has... 1. + improved; 2. = remained unchanged; 3. - deteriorated.
 - How has demand (turnover) for your company's services changed over the past 3 months? It has... 1. + increased; 2. = remained unchanged; 3. - decreased.
 - How do you expect the demand (turnover) for your company's services to change over the next 3 months? It will...1. + increase; 2. = remain unchanged; 3. - decrease.

SECTORIAL CONFIDENCE INDICATORS

The confidence indicators (CI) are the result of the arithmetic average of balance of the following questions:

- Manufacturing Industry confidence indicator
 - Do you consider your current overall order books to be...? 1. + more than sufficient (above normal); 2. = sufficient (normal for the season); 3. - not sufficient (below normal).
 - How do you expect your production to develop over the next 3 months? It will... 1. + increase; 2. = remain unchanged; 3. - decrease.
 - [Inverted Sign] Do you consider your current stock of finished products to be...? 1. + too large (above normal); 2. = adequate (normal for the season); 3. - too small (below normal).
- Trade confidence indicator
 - How has (have) your business activity (sales) developed over the past 3 months? It has... (They have...) 1. + improved (increased); 2. = remained unchanged; 3. - deteriorated (decreased).
 - How do you expect your business activity (sales) to change over the next 3 months? It (They) will... 1. + improve (increase); 2. = remain unchanged 3. - deteriorate (decrease).
 - [Inverted Sign] Do you consider the volume of stock you currently hold to be...? 1. + too large (above normal); 2. = adequate (normal for the season); 3. - too small (below normal).
- Construction and Public Works confidence indicator
 - Do you consider your current overall order books to be...?: 1. + more than sufficient (above normal); 2. = sufficient (normal for the season); 3. - not sufficient (below normal).
 - How do you expect your firm's total employment to change over the next 3 months? It will...; 1. + increase; 2. = remain unchanged; 3. - decrease.
- Services confidence indicator
 - How has your business situation developed over the past 3 months? It has... 1. + improved; 2. = remained unchanged; 3. - deteriorated.
 - How has demand (turnover) for your company's services changed over the past 3 months? It has... 1. + increased; 2. = remained unchanged; 3. - decreased.
 - How do you expect the demand (turnover) for your company's services to change over the next 3 months? It will... 1. + increase; 2. = remain unchanged; 3. - decrease.

Notes

The surveys used in the calculation of the above mentioned confidence indicators registered the following weighted response rates:

| Qualitative Business Surveys | Sample ⁽¹⁾ | Weighted Response Rate ⁽³⁾ | |
|-------------------------------|-----------------------|---------------------------------------|--------------|
| | | 2015 ⁽²⁾ | October 2016 |
| Manufacturing Industry | 1179 | 98.3% | 98.4% |
| Construction and Public Works | 822 | 94.7% | 95.7% |
| Trade | 1102 | 97.5% | 98.0% |
| Services | 1427 | 94.7% | 99.1% |

⁽¹⁾ December 2015

⁽²⁾ Annual average.

⁽³⁾ Corresponds to the ratio between the turnover of the firms that answered to the survey and the turnover of all the firms in the sample.

CONSUMER CONFIDENCE INDICATOR

The consumer confidence indicator results of the arithmetic average of the balances of the following questions:

- How do you expect the financial position of your household to change over the next 12 months? It will...1. + + get a lot better; 2. + get a little better; 3.= stay the same; 4.- get a little worse; 5. - - get a lot worse; 6. N don't know.
- How do you expect the general economic situation in this country to develop over the next 12 months? It will... 1. + + get a lot better; 2. + get a little better; 3.= stay the same; 4.- get a little worse; 5. - - get a lot worse; 6. N don't know.
- [Inverted Sign] How do you expect the number of people unemployed in this country to change over the next 12 months? The number will...: 1. + + increase sharply; 2. + increase slightly; 3. = remain the same; 4. - fall slightly; 5. - - fall sharply; 6. N don't know.
- Over the next 12 months, how likely is it that you save any money? 1. + + very likely; 2.+ fairly likely; 3.- not likely; 4. - - not at all likely; 5. N don't know.

The qualitative consumer survey registered the following response rates:

| Qualitative Consumer Survey | Response rate | |
|-----------------------------|-----------------------------------|--------------|
| | Average of the last twelve months | October 2016 |
| | 61.5% | 56.2% |

ABBREVIATIONS

Balances: Weighted difference between the percentages of positive and negative responses.

E.V.: Effective Values.

S.A.: Seasonally Adjusted values.

3MMA: Three-Months Moving Average.

2QMA: Two-Quarters Moving Average