

System of indicators for residential property markets Price indicators





* Transaction-weighted. Bundesbank calculations based on price data provided by bulwiengesa AG. 1 Berlin, Dusseldorf, Frankfurt am Main, Hamburg, Cologne, Munich and Stuttgart.

Deutsche Bundesbank

Standard indicators to evaluate residential property prices in Germany^{*}





* Bundesbank calculations based on data provided by the Association of German Pfandbrief Banks (vdp). 1 Annuity of a mortage loan with a fixed interest rate (between five and ten years) and a hypothetical term of 30 years in relation to household income. 2 Disposable income per household in Germany, nominal. 3 Prices and rents of apartments. Deutsche Bundesbank

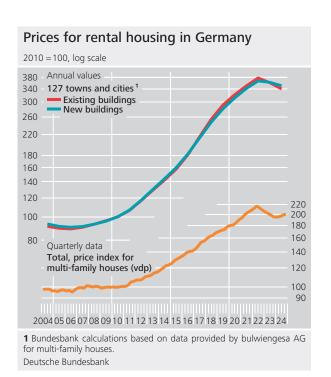
Price-to-rent ratio for apartments in Germany*



* Transaction-weighted. Bundesbank calculations for prices and new lettings of apartments based on data provided by bulwiengesa AG. 1 Berlin, Dusseldorf, Frankfurt am Main, Hamburg, Cologne, Munich and Stuttgart. Deutsche Bundesbank



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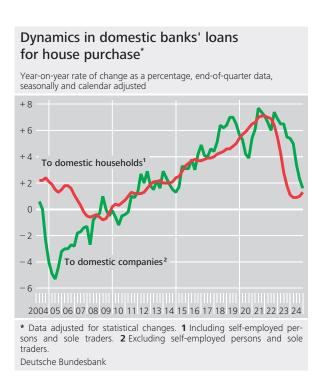


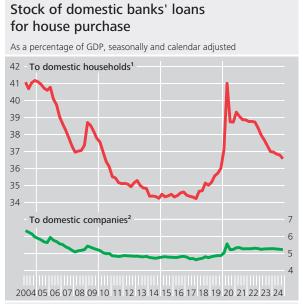
1 Transaction-weighted. Bundesbank calculations based on data provided by bulwiengesa AG. **2** Berlin, Dusseldorf, Frankfurt am Main, Hamburg, Cologne, Munich and Stuttgart. **3** Source: Bundesbank calculations based on data provided by Federals Statistical Office (Destatis), to some extent including new lettings.

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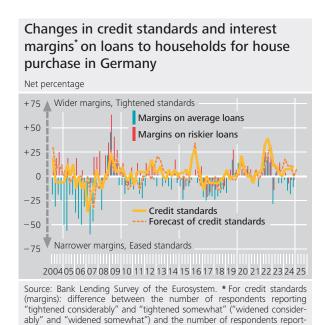
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1 Including self-employed persons and sole traders. 2 Excluding self-employed persons and sole traders.

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ing "eased somewhat" and "eased considerably" ("narrowed somewhat" and "narrowed considerably") as a percentage of the responses given.

Deutsche Bundesbank

Debt of households in Germany* As a percentage of GDP1 80 Total debt Quarterly data 60 40 of which Loans for house purchase 20 As a percentage of disposable income¹ Total debt 120 100 80 of which 60 Loans for house purchase 1997 05

Source: Deutsche Bundesbank's financial accounts (unconsolidated). Until 1998 according to ESA 1995; from 1999 according to ESA 2010. * Loans to private households and private non-profit institutions, annual average. 1 Four-quarter moving sum.

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System of indicators for residential property markets Financial indicators

Interest payments on loans to households in Germany for house purchase* As a percentage of disposable income 4.0 3.5 3.0 2.5 2.0 1.5 1.0 Percentage points Year-on-year change +0.1 0 -0.1-0.2-0.3

* Data based on time-related stocks of MFI interest rate statistics for secured and unsecured loans, including overdraft loans.

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Interest rates on loans to households in Germany for house purchase*

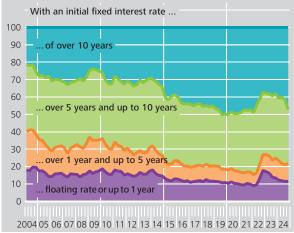


* Data based on the monthly new business of the MFI interest rate statistics for secured and unsecured loans, excluding overdraft loans. 1 Calculated as the difference between the interest rate with an initial rate fixation of over 5 years and up to 10 years and the interest rate with an initial rate fixation of over 1 year and up to 5 years.

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Fixed interest periods for loans to households in Germany for house purchase*





* Calculated as domestic banks' volume of new business with respective rate fixation periods as a share of total new business (also including extensions).

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System of indicators for residential property markets

Real economic indicators

Building permits and completed housing units in Germany* Thousand apartments, yearly data, log scale 650 550 Completed housing units 450 350 300 250 **Building** permits 200 Quarterly data¹ 150 05 10 1997

Source of unadjusted figures: Federal Statistical Office. * In residential and non-residential buildings. Including construction work on existing buildings. 1 Seasonally and calendar adjusted, annualised.

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As a percentage of GDP, seasonally and calendar adjusted 7.5 7.0 6.5 6.0 5.5 5.0 Enlarged scale Quarter-on-quarter change +0.6 +0.3 -0.3 -0.6

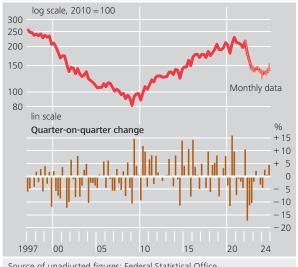
Source of unadjusted figures: Federal Statistical Office. * Quarterly calculations of gross investment at current prices according to national accounts.

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1997

New orders for housing construction in the main construction sector in Germany

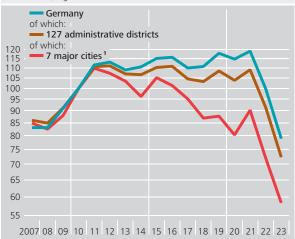
Quarterly data, seasonally and calendar adjusted, at constant prices



Source of unadjusted figures: Federal Statistical Office. Deutsche Bundesbank

Number of transactions for apartments in Germany

2010 = 100, log scale



Source: Extrapolation provided by vdpResearch GmbH on the basis of data from surveyor committees. **1** Berlin, Dusseldorf, Frankfurt am Main, Hamburg, Cologne, Munich and Stuttgart.

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