

# UBS Swiss Real Estate Bubble Index 2Q 2015

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**Chief Investment Office WM** 

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- The UBS Swiss Real Estate Bubble Index stood at 1.37 points in the risk zone after a significant increase in the second quarter of 2015. This was the strongest increase since the fourth quarter of 2012.
- Home prices and mortgages for private households went up excessively considering the weak economy.
- The housing market is still caught up in the investment property boom. Loan applications for non-owner-occupied condominiums remained near their all-time high in the second quarter of 2015.

The UBS Swiss Real Estate Bubble Index stood at 1.37 points in the second quarter of 2015. In other words, the index rose 0.10 points within the risk zone compared to the previous quarter. This was the strongest increase since the fourth quarter of 2012. The mortgage volume of private households expanded around 3.5% year-on-year, while home prices showed a nominal increase of nearly 2%. While such growth rates appear to be rather moderate historically speaking, they are relatively high given the stagnating output of the economy and the significant decline in consumer prices. The general flattening of debt and price momentum, which had started in the beginning of 2014, also stopped in the past half year.

The index increase confirms that we are far from giving an all-clear signal for the housing market. Not only is demand for owner-occupied homes still high due to the low mortgage rates, but investor demand for real estate has also gained heft in the home market.

#### Methodology

The UBS Swiss Real Estate Bubble Index comprises six sub-indices that track: the relationship between purchase and rental prices, the relationship between house prices and household income, the relationship between house prices and inflation, the relationship between mortgage debt and income, the relationship between construction and gross domestic product (GDP) and the proportion of credit applications by UBS clients for residential property not intended for owner occupancy. The UBS Swiss Real Estate Bubble Index is calculated as the average of trend-adjusted and standardized indicators weighted using a principal component analysis. The index level shows the deviation in standard deviations from the average, which is normalized to zero.

The index value is categorized into one of five levels: slump (below -1), balance (between -1 and 0), boom (between 0 and 1), risk (between 1 and 2) and bubble (above 2).

#### **UBS Swiss Real Estate Bubble Index**



Source: UBS

#### Index performance

		Index
2012	Quarter 1	0.64
	Quarter 2	0.66
	Quarter 3	0.80
	Quarter 4	0.91
2013	Quarter 1	1.01
	Quarter 2	1.11
	Quarter 3	1.12
	Quarter 4	1.14
2014	Quarter 1	1.10
	Quarter 2	1.11
	Quarter 3	1.16
	Quarter 4	1.20
2015	Quarter 1	1.27
	Quarter 2	1.37

Source: UBS

As a result of a revision of the data, the index values have been adjusted. Since the sub-indices carry different weights, small adjustments may also be made each quarter.

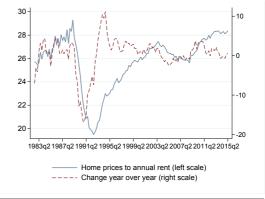
# Sub-indices of the UBS Swiss Real Estate Bubble Index

#### Owner-occupied home prices relative to annual rent payments

Purchase prices rose 0.5% quarter-on-quarter in nominal terms, while rents increased a mere 0.2%. The price-to-rent ratio thus went up slightly in the second quarter of 2015 and currently stands at 28.4. The indicator has been moving sideways for more than two years now. However, it currently stands well above the long-term equilibrium of about 25.

# Home prices relative to annual rent

Level and change year-over-year in percent



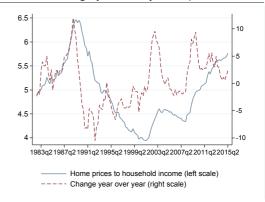
Source: SNB; UBS

#### Owner-occupied house prices relative to household income

In the second quarter of 2015, owner-occupied home prices grew faster than household incomes. Given the worsening economic situation, we estimate that household incomes declined 0.5%. Approximately 5.8 annual household incomes were needed to purchase a home in the medium price segment. The long-term average is five annual incomes.

# Home prices relative to household income

Level and change year-over-year in percent



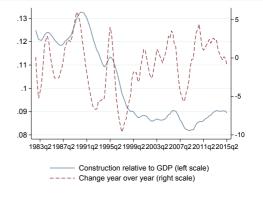
Source: SNB; FSO; UBS

#### Construction relative to gross domestic product (GDP)

Construction investment improved somewhat in the second quarter of 2015 and thus slightly outperformed the overall economy. However, the increase was too weak to offset the declines from previous quarters. Construction's contribution to gross domestic product is currently 8.8%. The long-term average value lies at 10.3%.

# Construction relative to gross domestic product

Level and change year-over-year in percent



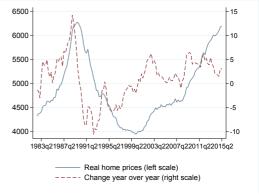
Source: seco; FSO; UBS

#### Owner-occupied home prices relative to consumer prices

Real home prices, calculated as the average value of prices for single-family homes and condominiums, were virtually stagnant quarter-on-quarter, but were still up 3.0% year-on-year. If prices continue to rise, they will exceed the peak of the latest real estate bubble from 1990 by the end of the year.

#### Home prices relative to consumer prices

Real home prices (CHF/m²) and change year-overyear in percent



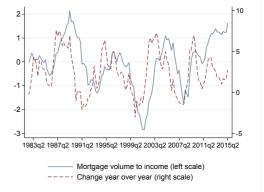
Source: SNB; FSO; UBS

### Mortgage volume relative to disposable household income

Mortgage volumes rose 3.5% year-on-year in the second quarter of 2015, which is still faster than at the end of 2014. Debt momentum had been flattening out, but this trend seems to have stopped. Since this coincided with a decline in household incomes, the indicator went up significantly compared to the previous quarter.

## Mortgage volume relative to income

Mortgage debt of private households relative to income (detrended series) and change year-overyear in percent



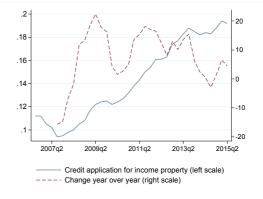
Source: SNB: FSO: UBS

## UBS loan applications for real estate intended for leasing

The number of loan applications for non-owner-occupied properties dipped slightly. In the second quarter of 2015, 19.2% of all credit applications were for properties not intended for self-occupancy. Negative interest rates should initially sustain the strong demand for condominiums as investment properties.

# Credit applications for residential property not intended for self-occupancy

Share of total and change year-over-year in percent



Source: UBS

# Regions with risk potential for the residential real estate market

The risk map has changed to reflect the increase in the real estate bubble index. The Lucerne region has joined the ranks of exposed regions due to increased imbalances. Lucerne currently still shows the strongest price growth rates of all the exposed regions except Innerschwyz. Appenzell Innerrhoden – where prices have risen nearly 70% in the last 10 years – has now joined the monitoring regions.

#### Methodology

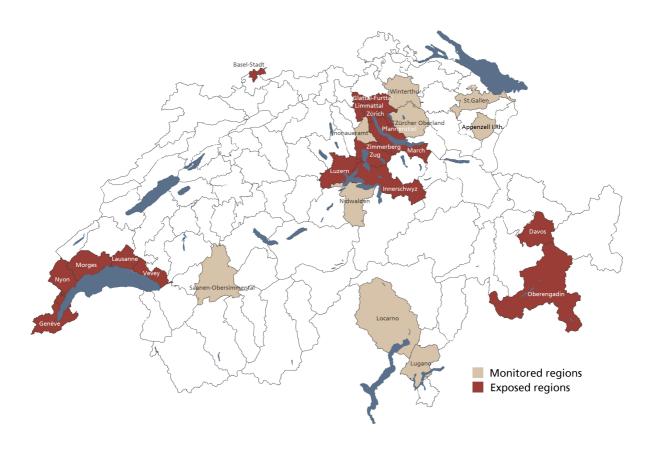
Our selection of exposed regions is tied to the level of the UBS Swiss Real Estate Bubble Index and is based on a multi-level selection process utilizing regional population and property price data.

Exposed regions	Monitored regions
Zürich	Knonaueramt
Glattal-Furttal	Zürcher Oberland
Limmattal	Winterthur
Zimmerberg	Saanen-Obersimmental
Pfannenstiel	Nidwalden
Innerschwyz	St.Gallen
March	Locarno
Zug	Lugano
Luzern*	Appenzell I.Rh.**
Basel-Stadt	
Davos	
Oberengadin	
Lausanne	
Morges	
Nyon	
Vevey	
Genève	

<sup>\*</sup> in the previous quarter classified as monitored region

#### Regional risk map - 2Q 2015

Exposed and monitored regions for the Swiss residential real estate market



Source: UBS

<sup>\*\*</sup> added in 2Q 2015

# **Appendix**

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