

Housing market developments – 3rd quarter 2019

Strong house price growth outside the Randstad

Average house prices increased in the provinces of Zeeland and Drenthe with 8.5% and 8.0% year on year. The municipalities Alblasserdam and Hendrik-Ido-Ambacht are currently registering the fastest growth of all the municipalities in the Netherlands with 9.0%. The two largest cities, Amsterdam and Rotterdam, show average house price increases of respectively 3.6% and 7.2%. The Hague and Utrecht show average house price increases of respectively 6.7% and 7.3.

Transactions and number of homes for sale drops

The annual number of sales increased in five years from 137 thousand to 265 thousand houses. The number of homes for sale continues to decline. The ratio between the number of sales and supply has reached a factor 0.3 (sales > supply).

Housing affordability remains stable

On average, 14.6% of net household income was required to service housing costs, in 2008 the housing affordability peaked with 27.0%. The relatively good affordability is mainly the result of the current low mortgage interest.

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CALCASA INDEXES 2019 Q3

Calcasa House Price Index (WOX) (1995Q1=100)	332
Calcasa WOX Top 15 Cities Index (1995Q1=100)	393
Residential price change	
WOX price change (year-on-year)	6.4%
WOX price change (quarter-on-quarter)	2.4%
WOX price change corrected for inflation (year-on-year)	3.8%
House price forecast	
Yearly price change 2019 Q4	7.2%
Quarterly price change 2019 Q4	1.5%
Housing affordability	
Affordability index	14.6%
Yearly change in housing affordability	2.4%
Quarterly change in housing affordability	0.7%
Transactions	
Number of transactions on a yearly basis (x 1,000)	265
Yearly change in the number of transactions	-1.8%
Quarterly change in the number of transactions	1.3%

^{*}Housing stock January 1st, 2019, municipal reclassification 2018

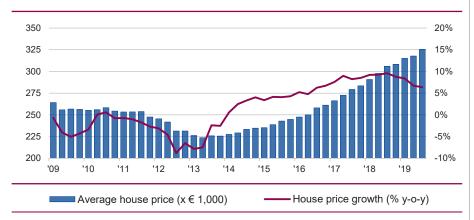
Table 1

Calcasa key numbers Q3 2019 Source: WOX Monitor Calcasa



Average house price keeps rising

- The WOX (1995 = 100) currently stands at 332 points.
- Average house price: 326 thousand euro.
 - » Q-O-Q price development: +2.4%.
 - » Y-O-Y price development: +6.4%.
- The current Dutch inflation rate is 2.6% (which is the average rate for Q3 2019 according to Statistics Netherlands). In the third quarter of 2019, inflation-adjusted house prices rose by 3.8% y-o-y.



- Average price of a single-family house: 341 thousand euro.
 - » Q-O-Q price development of single-family houses: +2.4%.
 - » Y-O-Y price development of single-family houses: +6.3%.
- Average price for apartments: 284 thousand euro.
 - » Q-O-Q price development of apartments: +2.5%.
 - » Y-O-Y price development of apartments: +6.6%.



Figure 1

Average house price (x EUR1,000) and yearly price change per quarter in the Netherlands.

Source: WOX Monitor Calcasa

Figure 2

Q-O-Q price change per housing type in the Netherlands.

Source: WOX Monitor Calcasa



Highest price increase for less than 150,000 euro class

- Based on house price levels, Calcasa has divided the market into five price classes. Homes in the price class less than 150 thousand euros performed best with an annual average house price rise of 9.3%.
- The most expensive houses worth 500k or more increased the least in value; over the past year these homes increased in value by 3.0%.

Price development y-o-y
9.3%
8.0%
6.3%
5.5%
3.0%
6.4%

Older apartments show biggest price increase

- Again, the value of apartments saw the biggest price growth in the past year; their average price rose by 6.6%.
- Apartments built between 1945 and 1979 are registering the fastest growth. Their value increased by 8.2% in the past year.

Development (y-o-y) Construction year

Housing type	<1944	1945-1979	>1980	>2000	Total
(semi) detached	5.5%	6.2%	5.9%	6.5%	6.0%
Terraced/corner house	7.2%	6.1%	6.5%	6.4%	6.5%
Apartment	5.2%	8.2%	6.8%	6.7%	6.6%
Total	5.9%	6.8%	6.4%	6.6%	6.4%

Forecast house price development in Q4 2019

Q-O-Q price change: +1.5%.

Y-O-Y price change: 7.2% (Q4 2018 - Q4 2019).
Y-O-Y price change single-family homes: 7.0%.

» Y-O-Y price change apartments: 7.9%.

Calcasa publishes region-specific house price forecasts for four specific areas of the Netherlands, reflecting the diversity and variety displayed across the region.

Western part: 7.3%
Eastern part: 7.5%
Northern part: 7.7%
Southern part: 6.9%

Table 2a

Netherlands - price development per price class and transaction distribution over the last year.

Source: Calcasa

Table 2b

Netherlands - annual price development per construction year and housing type. Source: Calcasa



Strong house price growth outside the Randstad

- Average house prices increased the most in the province of Zeeland, with an annual increase of 8.5% in value.
- Apartments in Flevoland and Gelderland are in demand, with values going up by 11.5% and 10.4% respectively.
- The lowest price increase was measured for houses in the provinces of North-Holland (5.2%) and North-Brabant (5.6%).

	Average price	Average price	Price change
Q3 2019	single-family	apartments	(year-on-year)
	houses		
Groningen	232,000	218,000	6.1%
Friesland	233,000	199,000	6.8%
Drenthe	260,000	211,000	8.0%
Overijssel	270,000	193,000	6.7%
Flevoland	285,000	277,000	7.7%
Gelderland	330,000	229,000	7.3%
Utrecht	469,000	312,000	6.1%
North-Holland	443,000	414,000	5.2%
South-Holland	382,000	256,000	7.1%
Zeeland	243,000	220,000	8.5%
North-Brabant	340,000	242,000	5.6%
Limburg	257,000	187,000	6.3%
The Netherlands	341,000	284,000	6.4%

Table 3

Average price and y-o-y price development on province level Source: WOX Monitor Calcasa

Zuidoost-Zuid-Holland fastest growing region

- The largest annual price increase of 8.8% is measured for houses in the NUTS III region of Zuidoost-Zuid-Holland. In this region the value of single-family homes rose by 8.9% and the value of apartments by 8.5%.
- Second-largest annual price increase is seen in the NUTS III region Zeeuwsch-Vlaanderen with an annual growth rate of 8.6%, here the value of single-family homes rose by 8.7% and the value of apartments by 7.6%.
- The NUTS III regions with the smallest price increases are Groot-Amsterdam (4.0%) and Alkmaar (4.0%).
- In 8 of the 40 NUTS III regions the annual increase for houses prices is more than 8%.



Housing affordability increases slightly

On average, 14.6% of net household income was required to service housing costs in the third quarter of 2019, compared to mid-2008 when housing costs represented 27.0% of net income.

- Q-O-Q change in net housing costs: -0.7%.
- Y-O-Y change in net housing costs: -2.4%.



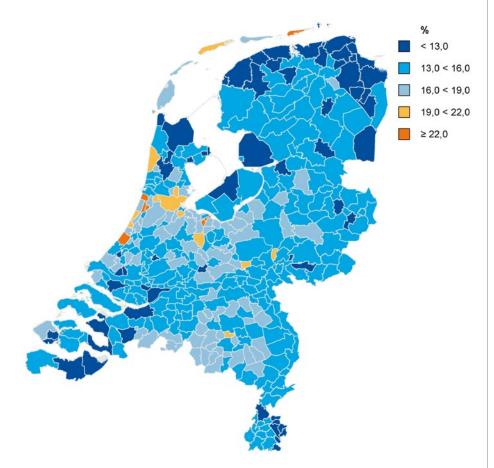


Figure 3

Housing affordability index* (in % of household income) in the Netherlands.
Source: WOX Monitor Calcasa

Figure 4

Affordability index per municipality (in %). Source: WOX Monitor Calcasa

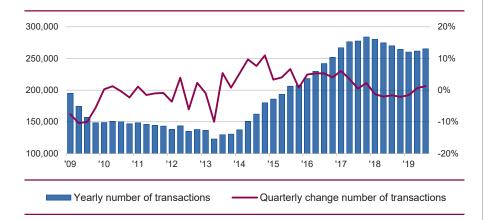
*The index measures the affordability of Dutch owner-occupied houses. It is calculated taking into account net housing costs, current average mortgage costs (current interest rate, maintenance costs, local taxes and fiscal treatment.



Number of sales

The annual number of transactions has decreased. 265 thousand residential properties were sold during the past year.

- Y-O-Y development, number of annual sales: -1.8%.
- Q-O-Q development, number of annual sales: +1.3%.



Apartment sales largest decline

- Transactions of all housing types but detached and semi-detached houses, decreased in the last quarter. Transactions of detached houses increased with 2.8%.
- Apartments sales decreased the most this quarter with 6.9% year-on-year.
 This is partly caused by a shrinking supply of apartments.

Transaction development y-o-y

Housing type	2018Q3	2018Q4	2019Q1	2019Q2	2019Q3
Detached	1.7%	-2.6%	-1.7%	0.7%	2.8%
Semi-detached	-2.1%	-6.3%	-5.0%	-0.6%	3.1%
Corner house	0.3%	-6.0%	-7.6%	-5.6%	-3.1%
Terraced house	-1.5%	-6.1%	-6.8%	-4.8%	-1.5%
Apartment	-7.7%	-10.9%	-11.8%	-9.4%	-6.9%
Total	-2.7%	-6.9%	-7.2%	-4.7%	-1.8%

Figure 5

Number of annual sales* and y-o-y change in number of sales in the Netherlands. Source: Statistics Netherlands, Land

Source: Statistics Netherlands, Lanc Registry, adaptation by Calcasa

* Calcasa shows the number of housing sales on an annual basis for a reliable picture of the long term trend (corrected for seasonal effects).

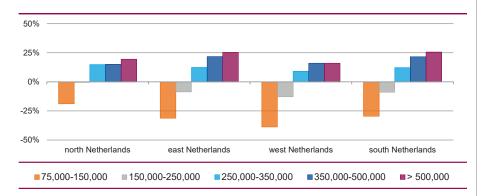
Table 4

Y-o-y transaction development by period and property type Source: WOX Monitor Calcasa



Sales in expensive price class increased

- The sale of homes in the price range 350 to 500 thousand euros increased by 18.1% in the past year, whilst homes above 500 thousand euros increased by 19.1%.
- Especially in the east (25.3%) and in the south (25.6%) of the Netherlands more expensive homes (>500 thousand euros) were sold.
- In the western part of the Netherlands the highest increase in sales was measured for houses above 500 thousand euros (16.0%).
- The lowest price segment (75 to 150 thousand euros) decreased the most in the western part of the Netherlands by 38.8%.



35% of housing sales within 150 to 250 thousand euros

- In the past year 35% of housing sales were within the price class of 150 to 250 thousand euros.
- The percentage of transactions in the price class 75 to 150 thousand euros decreased in four years time from 24% to 10%.
- The price segment 350 to 500 thousand euros increased in four years time from 8% to 17%.
- 11% of housing sales were within the price class of 500 thousand euros or more. Four years ago this was 5%.



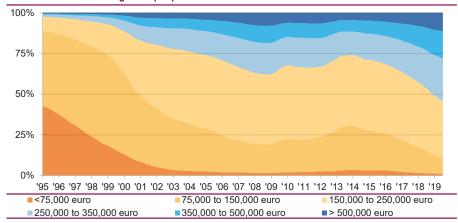


Figure 6

Growth (%) of share of housing sales per price class in North, East, West and South Netherlands in Q3 2019 compared to Q3

Source: WOX Monitor Calcasa

Figure 7

Share of housing sales per price class Source: WOX Monitor Calcasa



Groot-Amsterdam highest market liquidity

- In the NUTS III region Groot-Amsterdam 7.0% of the housing supply was sold during the past year. The regions of The Hague and Overig Groningen follow with 6.9% and 6.7% respectively.
- The NUTS III region Noord-Limburg had the lowest market liquidity: 4.9%.

	Percentage		Percentage
	of housing supply		of housing supply
NUTS III region	sold last year	NUTS III region	sold last year
Groot-Amsterdam	7.0%	Noord-Limburg	4.9%
's-Gravenhage	6.9%	lJmond	5.0%
Overig Groningen	6.7%	Midden-Limburg	5.1%
Groot-Rijnmond	6.7%	Delft en Westland	5.2%
Zuidwest-Drenthe	6.5%	Twente	5.4%
Agglomeratie Haarlem	6.5%	Achterhoek	5.4%
Oost-Groningen	6.4%	Leiden en Bollenstreek	5.4%
Overig Zeeland	6.4%	Zuid-Limburg	5.4%
Flevoland	6.4%	Alkmaar en omgeving	5.5%
Zuidoost-Drenthe	6.3%	Oost-Zuid-Holland	5.5%

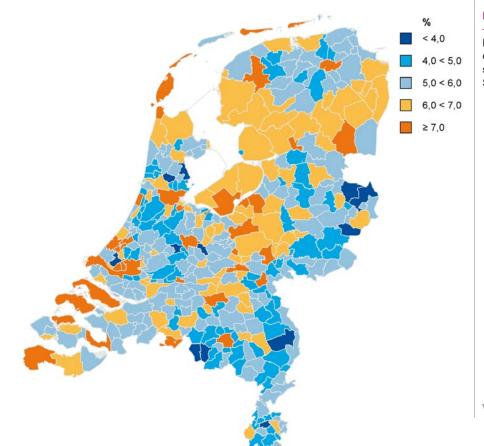


Table 5

Top 10 NUTS III regions with highest and lowest percentage of housing supply sold last year

Source: WOX Monitor Calcasa

Figure 8

Market liquidity: sold homes as percentage of total number of owner occupied housing stock for previous year per municipality Source: WOX Monitor Calcasa



Market liquidity: number of sales surpassed supply

- The annual ratio of houses for sale vs. sold has decreased to 0.3. This is an improvement compared to last year when this ratio was still 0.4.
- The annual number of houses sold: 265 thousand.
 - » Y-O-Y development: -1.8%
- Homes for sale in Q3 2019: 80 thousand
 - » Y-O-Y development: -25.8%
- The market liquidity is best in the municipality of Groningen with a factor of 0.16
- In the municipality of Maasgouw the market liquidity is highest (worst) with a factor of 0.59, followed by the municipality of Bladel with a factor of 0.58.





- The relationship between the supply of owner-occupied housing and total owner-occupied housing stock is also a component of market liquidity. The percentage of the total owner-occupied housing stock that sold last year is 6.0% for the Netherlands.
 - o The percentage of family homes sold previous year: 6.2%.
 - The percentage of apartments sold previous year: 5.5%.
- The share of owner occupied housing stock which was sold last year is highest in the city of Groningen with 9.0%.
- In the municipality of Edam-Volendam only 3.0% of the existing stock of owner-occupied homes has changed owners.

Figure 9a

Annual number of properties for sale versus number of properties sold over the period 2013-2019 in the Netherlands. Source: Multiple real estate agents, adaptation Calcasa

Figure 9b

Annual number of properties for sale versus number of properties sold over the period 2013-2019 in the Randstad.

Source: Multiple real estate agents, adaptation Calcasa

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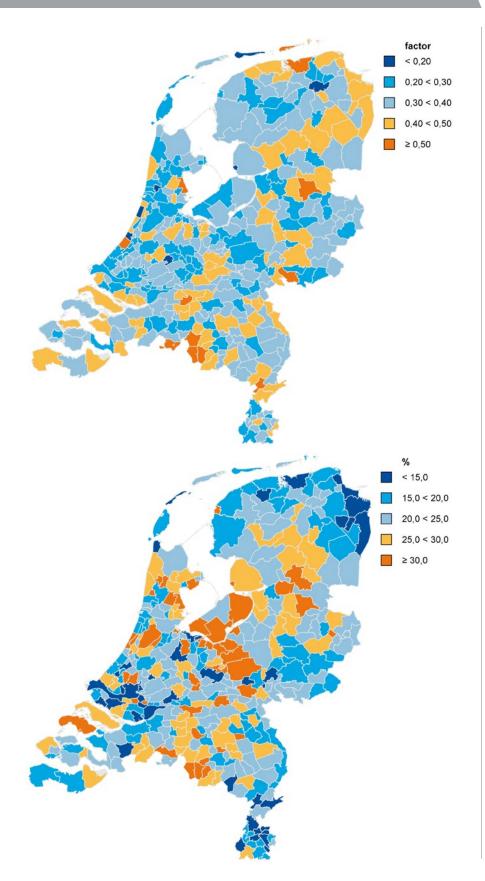


Figure 10

Supply/Sales ratio all properties per municipality

Source: WOX Monitor Calcasa

Figure 11

Percentage of properties with energy label A per municipality

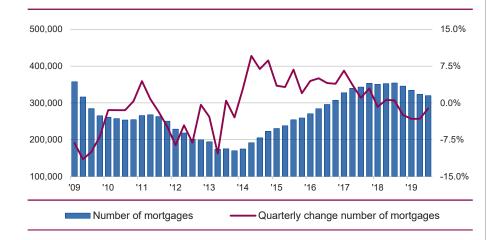
Source: WOX Monitor Calcasa



Mortgage approvals are decreasing

Approximately 320 thousand mortgages were approved last year.

- Y-O-Y development, number of annual mortgages: -9.7%.
- Q-O-Q development, number of annual mortgages: -1.1%.



Number of foreclosures through auction decreases

Over the last four quarters, 526 foreclosures have been registered by the land registry.

- Y-O-Y development amount of annual foreclosures: -38.6%.
- o Q-O-Q development amount of annual foreclosures: -7.9%.
- The share of foreclosure sales versus total sales is 0.2%.
- The highest share of foreclosure sales to total sales is 1.9% in the municipality of Nederweert.
- 189 municipalities had no foreclosure sales in the past year. The largest municipality without foreclosure sales is Den Bosch.

Note that many foreclosed properties will be sold via the public market and not via auction. The reason is that proceeds of a sale of a home through a forced auction can be up to 40 percent less compared to a sale via the public market.

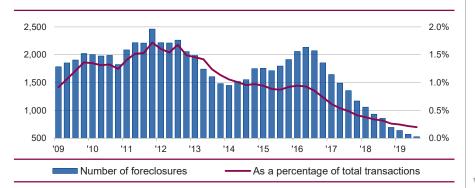


Figure 12

Number of mortgages Source: Statistics Netherlands, Land Registry and adaptation Calcasa

Due to the increase in the number of foreclosures after the crisis, the NHG has come up with stricter regulations allowing banks to only sell homes via auction if the selling price is less than 5% below market value. This is to avoid big losses.

Figure 13

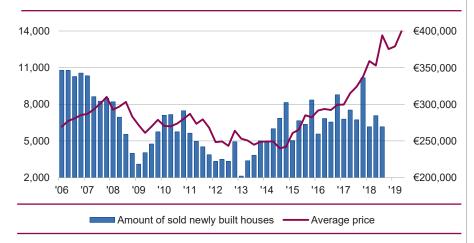
Number of yearly foreclosures and amount of foreclosures as a % of the total number of transactions in the Netherlands.

Source: Statistics Netherlands, Land Registry and adaptation Calcasa



Average price newly built homes increased by 13% y-o-y

- In the third quarter of 2018 the total amount of sales for newly built homes was 6 thousand. This is a decrease of 8.5% year-on-year.
- During the second quarter of 2019 the average price for newly built houses was 400 thousand euros. This is an increase of 13.2% compared to a year ago.



Amount of households in arrears decreased

- Since 2015 the number of homeowners with payment problems decreased with 38%.
- Currently there are 70 thousand homeowners who have difficulty paying their mortgage: this is a decrease of 12.5% compared to a year ago.

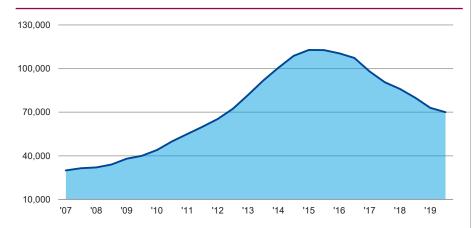


Figure 14

Average sales price for newly built houses per quarter in the Netherlands compared to the quarterly amount of newly built houses sold.

Source: CBS

Figure 15

Number of borrowers with mortgage payment arrears

Source: BKR



Retail rental prices decreased by 6% in three years

The average office rental price increased by 4.7% y-o-y in 3Q2019
The Calcasa PropertyNL OPI (Office Price Index) showed a value of 99
(4Q2001=100) for the third quarter of 2019. The average office rental value is now EUR134 per square meter.

The average retail rental price increased by 1.0% y-o-y in 3Q2019 The Calcasa PropertyNL RPI (Retail Price Index) showed a value of 98 (4Q2001=100) for the third quarter of 2019. Compared to the third quarter of 2018, this is an increase of 1.0%. The average retail rental value is now EUR151 per square meter.

The average industrial rental price increased by 3.8% y-o-y in 3Q2019 The Calcasa PropertyNL IPI (Industrial Price Index) showed a value of 105 (4Q2001=100) for the third quarter of 2019, an increase of 3.8% compared to the third quarter of 2018. The average industrial rental value is now EUR63 per square meter.

The three real estate indices are based entirely on actual transactions and not on appraisals from professionals. The actual situation for the rental income may even be grimmer: in the actual rents any incentives given by the owner are not included.



Netherlands	(Q4 2001=100)	Average rent per m2	Y-O-Y price change	Three year price change
Offices (OPI)	99	€ 134	4.7%	13.1%
Retail (RPI)	98	€ 151	1.0%	-6.0%
Industrial (IPI)	105	€ 63	3.8%	12.8%

Figure 16

Development of Calcasa commercial real estate indexes (Q4 2001 = 100) Source: Calcasa

Table 6

Development of rental values of commercial real estate in the Netherlands Source: Calcasa, PropertyNL



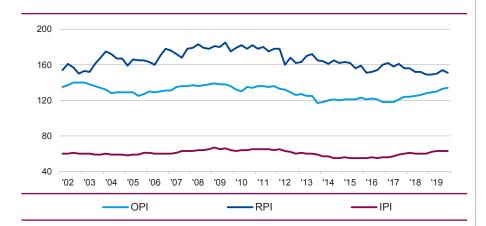


Figure 17

Development of Calcasa commercial real estate indexes (2001Q4 = 100) Source: Calcasa, PropertyNL

Commercial real estate index: A scientifically justified methodology

Calcasa calculates price developments for commercial real estate by using realized rental transactions which have been gathered and checked by the research department of PropertyNL. Calcasa translates the rental transactions to determine a value for the entire stock of commercial real estate, using a hedonic modeling technique. A revaluation of the entire stock takes place each quarter and hence a more accurate and robust index is formed, capturing the developments in the commercial real estate market.

With the application of the hedonic method, it is essential that objects and their location are documented precisely, using the characteristics that influence the price. Hence, when using a hedonic index model, a range of object characteristics are taken into account, e.g. living area and year of construction.

It is equally important that multiple variables are included in the model, which describe the location of the object; an example of such variables would be distance to important amenities like city centers, airports, train stations and motorways. Using this methodology, Calcasa produces a quarterly index for the office market (with minimal space of 200 square meters), which is published in PropertyNL and the Calcasa WOX quarterly bulletin.

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Dutch Housing Market Summary Amsterdam 433,000 62,000 370,000 854,050 467,610 11,628 Rotterdam 311.000 87.000 224.000 34% 64% 638.710 321.690 8.715 The Hague 257,000 59,000 198,000 42% 56% 532,560 260,890 8,267 68,000 83,000 45% 54% 347,480 5,265 Utrecht 151,000 178,190 Groningen 101,000 37,000 64,000 38% 61% 202,810 122,540 3,470 Eindhoven 109.000 68.000 42.000 45% 54% 229.130 118.270 3.655 Provinces Groningen 277,000 183.000 94.000 55% 44% 582 940 292.260 9.906 3 026 244,000 221,000 183,000 33% 38,000 65% 492,100 216,370 8,880 2,966 Drenthe 500.000 385,000 38% 499.030 17.139 5.074 115.000 60% 1.151.500 Overiissel Flevoland 166,000 132.000 34.000 64% 35% 411.670 170.800 6.751 1.911 Gelderland 894 000 676.000 218 000 60% 39% 2.060.100 914 370 31.975 10 081 Utrecht 558,000 355,000 203,000 57% 42% 1,295,480 584,260 19,674 5,370 North-Holland 1,318,000 669,000 650,000 49% 2,831,180 1,352,240 42,198 11,790 South-Holland 1,678,000 833,000 845,000 51% 48% 3,681,040 1,701,660 53,947 14,806 Zeeland 185,000 151,000 34,000 65% 34% 382,300 173,950 7,623 2,560 North-Brabant 1,116,000 847,000 269,000 61% 38% 1,134,720 39,363 12,788 2,528,290 Limburg 529.000 391.000 138.000 60% 39% 1.117.200 527.920 16.538 5.668 7,741,000 5,044,000 2,697,000 57% 42% 17,181,080 7.857.910 265,113 79,628



10%

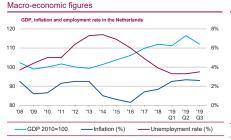
Top mortgage lenders: increase/decrease market share

Y-O-Y price development largest cities

Mortgage developments

	Amount	Change
Sales with NHG	24,200	8.0%
Execution sales with losses	92	-47.1%
Households in arrears	70,000	-12.5%
Sold mortgages	319,856	-9.7%
Total mortgage debt	720B	1.3%





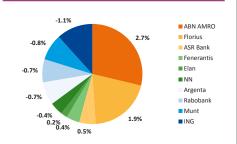




Table 7

Key figures for the Dutch housing market Source: Statistics Netherlands, Land Registry

Figures 18 & 19

Source figure left: Statistics Netherlands Source figure right: Calcasa

Table 8 & Figure 20

Source table left: Statistics Netherlands, NHG, BKR, Land Registry Source figure right: Calcasa, IG&H

Figures 21 & 22

Source figure left: DNB, Statistics Netherlands Source figure right: Calcasa, Statistics Netherlands



Appendices

					All
Provinces	Detached	Semi-	Corner	Terraced	single-family
	houses	detached	houses	houses	dwellings
Groningen	261,000	216,000	190,000	192,000	232,000
Friesland	300,000	221,000	184,000	170,000	233,000
Drenthe	339,000	238,000	195,000	179,000	260,000
Overijssel	391,000	260,000	228,000	215,000	270,000
Flevoland	494,000	318,000	247,000	233,000	285,000
Gelderland	458,000	316,000	265,000	239,000	330,000
Utrecht	758,000	516,000	380,000	356,000	469,000
North-Holland	586,000	479,000	374,000	341,000	443,000
South-Holland	580,000	440,000	336,000	313,000	382,000
Zeeland	332,000	229,000	195,000	185,000	243,000
North-Brabant	495,000	333,000	281,000	259,000	340,000
Limburg	366,000	237,000	217,000	207,000	257,000
Netherlands	440,000	325,000	291,000	277,000	341,000

Table 9

Average house price for single-family dwellings, per property type and per province in the Netherlands (in euros). Source: Calcasa

				Op/	
Provinces	Porch	Gallery	Maison-	downstairs	
	flat	flat	nette	apartment	
	199 000	176 000	192 000	204 000	

	flat	flat	nette	apartment	apartments
Groningen	199,000	176,000	192,000	204,000	218,000
Friesland	195,000	165,000	171,000	179,000	199,000
Drenthe	198,000	174,000	176,000	205,000	211,000
Overijssel	182,000	181,000	198,000	196,000	193,000
Flevoland	251,000	214,000	225,000	207,000	277,000
Gelderland	218,000	192,000	212,000	237,000	229,000
Utrecht	285,000	249,000	297,000	311,000	312,000
North-Holland	299,000	277,000	358,000	390,000	414,000
South-Holland	225,000	216,000	255,000	258,000	256,000
Zeeland	233,000	241,000	186,000	199,000	220,000
North-Brabant	245,000	213,000	235,000	246,000	242,000
Limburg	186,000	165,000	191,000	190,000	187,000
Netherlands	238,000	221,000	264,000	295,000	284,000

Table 10

ΑII

Average house price for apartments, per property type and per province in the Netherlands (in euros).

Source: Calcasa



	Highest		Lowest
	property values		property values
Municipalities	(x 1,000)	Municipalities	(x 1,000)
Bloemendaal	896	Delfzijl	167
Wassenaar	690	Oldambt	175
Heemstede	665	Veendam	185
Gooise Meren	530	Heerlen	186
De Bilt	517	Kerkrade	189
Zeist	487	Brunssum	190
Wijdemeren	486	Terneuzen	194
Bergen (NH.)	483	Leeuwarden	197
Amstelveen	480	Den Helder	199
Utrechtse Heuvelrug	476	Stadskanaal	201

Municipalities	Highest		Lowest annual price development
	annual price		
	development	Municipalities	
Alblasserdam	9.0%	Bergen (NH.)	2.4%
Hendrik-Ido-Ambacht	9.0%	Heiloo	3.4%
Middelburg	8.9%	Amsterdam	3.6%
Westerveld	8.9%	Langedijk	3.7%
Schiedam	8.9%	Heerhugowaard	4.1%
Papendrecht	8.9%	Nederweert	4.1%
Dordrecht	8.8%	Wijdemeren	4.3%
Aa en Hunze	8.8%	Amstelveen	4.4%
Sliedrecht	8.8%	Diemen	4.4%
Velsen	8.8%	Weert	4.4%

Table 11

Top 10 highest and lowest property values, per municipality containing over 5,000 owner-occupied dwellings.
Source: Calcasa

Table 12

Top 10 highest and lowest price developments, per municipality with over 5,000 owner-occupied dwellings. Source: Calcasa

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The WOX® Quarterly Q3 2019

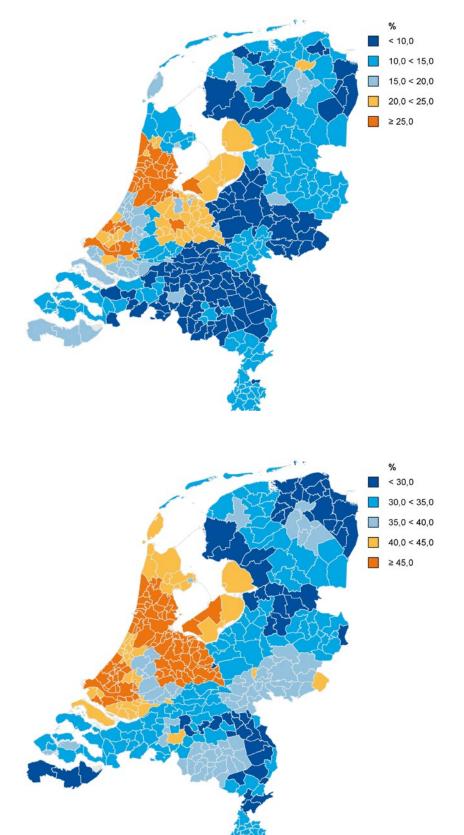


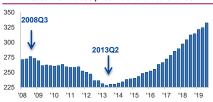
Figure 23

The price development of all houses per municipality in 2019Q3 compared to 2008Q3 Source: Calcasa

Figure 24

The price development of all houses per municipality in 2019Q3 compared to 2013Q2 Source: Calcasa

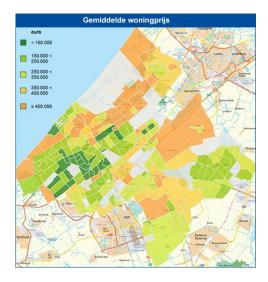






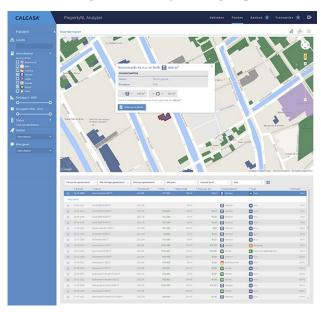
The WOX Monitor: All housing market data for every neighborhood

More information on price developments in various regional levels (neighborhood, municipality, province) is available via the WOX monitor.



Calcasa PropertyNL Analyzer

Analyzing the commercial real estate market is possible through the Calcasa PropertyNL Analyzer ("CPA"). CPA is an online application with information that is easily accessible for the office, retail and industrial markets. This tool increases the transparency in the property market. For more information contact Mr. Rogier van der Hijden: Rogier@Calcasa.nl





About Calcasa

Calcasa is an independent technology company specializing in the statistical analysis and valuation of real estate. The Calcasa Automated Valuation Model (AVM) for valuation of individual homes is unique due to its high coverage and accuracy. It is internationally recognized by the three major rating agencies and regulators. Mortgage lenders, investors, intermediaries, validation institutes, housing corporations, consumer organizations, real estate companies, broker organizations, government agencies and regulators rely daily on the solutions Calcasa. www.calcasa.co.uk

Calcasa WOX: A reliable house price index

Calcasa WOX is demonstrably the most reliable house price index in the Netherlands. Every quarter, Calcasa calculates a reliable house price index for each province, municipality, borough and neighborhood in the Netherlands. The house price index is calculated using the national data on transactions starting from 1993 and additional house and location characteristics from the database. The source data is screened for integrity, such that non-representative data is omitted for the index calculation. The developed methodology takes into account any over or under representation of sold properties, compared to the existing housing stock in that area. Unlike most house price indices, the Calcasa WOX does not simply calculate the coincidental development of sales for a specific area; rather it calculates the development of prices of the total housing stock.

European AVM Alliance (EAA)

Calcasa is a founding member of the EEA which was launched as a pan-European initiative at the end of 2012. The mission is to promote and standardize the usage of AVM's resulting in a consistent approach to automated valuations in Europe. Other members include Hometrack (UK), Eiendomsverdi (Norway), Värderingsdata (Sweden), CRIF (Italy), Tinsa (Spain), On-Geo (Germany) and On-Geo (Austria).

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