

BANK OF GREECE

EUROSYSTEM

Economic Analysis and Research Department Real Estate Market Analysis Section

	SUMMARY TABLE OF KEY SHORT-TERM INDICATORS FOR THE REAL ESTATE MARKET Average annual percentage changes													
	INDICATORS	2008	2009	2010				ual perc 2014	-		-	2018		2019
1 Ind	lices of prices of dwellings (BoG) and			2010	2011	2012	2013	2014	2013	2010	2017	2010		2013
1.1	Indices of apartments prices by age an			Now	eorioe	1								
a.	All apartments (Greece)	u geographi 1.7		-4.7		-	-10.9	-7.5	-5.1	-24	-1.0	1.7	77	(Q2
a1.	By age		0.7		0.0		10.0	1.0	0.1	2.1	1.0			(02
a		2.3	-2.0	-4.2	-5.0	-12 1	-10.9	-6.5	-5.6	-3.0	-0.8	1.9	7.7	(Q2
b		1.3	-4.8	-5.0			-10.8	-8.1	-4.7	-2.0	-1.2	1.6	7.6	(Q2
a2.	By geographical area: Total	110		0.0	0.0			011		2.0				(4
a		0.9	-4.6	-3.2	-6.4	-11.8	-12.3	-9.4	-5.3	-1.8	-1.0	2.7	11.1	(Q2
b		1.5	-6.0	-7.4		-13.6	-9.1	-6.6	-5.4	-3.5	-1.4	1.0	7.0	(Q2
С		1.8	-2.7	-5.3			-10.4	-6.6	-4.9	-2.3	-1.1	0.8	4.1	(Q2
d		3.3	-1.9	-5.8	-4.4	-11.6	-9.1	-4.9	-4.6	-3.0	-0.7	1.1	4.9	(Q2
a2.1	I. By geographical area: New (up to	5 years old)												,
а		0.0	-3.5	-2.7	-6.5	-12.8	-11.6	-7.6	-5.4	-2.5	-0.6	3.1	11.3	(Q2
b	. Thessaloniki	3.5	-5.3	-6.8	-8.2	-11.2	-7.7	-5.6	-6.1	-3.3	-1.3	1.1	7.2	(Q2
с	. Other cities	2.4	-2.1	-4.3	-3.4	-11.5	-10.3	-7.1	-5.1	-1.9	-0.6	0.8	4.9	(Q2
d	. Other areas	5.4	1.0	-5.7	-3.6	-11.8	-11.2	-4.6	-6.0	-4.4	-0.9	1.3	5.4	(Q2
a2.2	2. By geographical area: Old (5 years	s old and abo	ove)											
а	. Athens	1.4	-5.2	-3.5	-6.3	-11.3	-12.6	-10.4	-5.2	-1.5	-1.3	2.4	11.0	(Q2
b	. Thessaloniki	0.6	-6.3	-7.6	-6.2	-14.5	-9.7	-7.0	-5.0	-3.5	-1.5	1.0	6.9	(Q2
с	. Other cities	1.4	-3.2	-6.1	-4.7	-10.1	-10.5	-6.2	-4.8	-2.7	-1.5	0.7	3.5	(Q2
d	. Other areas	1.4	-4.4	-5.9	-5.2	-11.4	-7.0	-5.2	-3.3	-1.7	-0.5	0.8	4.5	(Q2
1.2	Indices of prices of dwellings (Historica	l series)												
a.	Urban areas	1.5	-4.3	-4.4	-5.5	-11.8	-10.9	-8.0	-5.1	-2.4	-1.1	1.7	8.0	(Q2
а	1. Athens	0.9	-4.6	-3.2	-6.4	-11.8	-12.3	-9.4	-5.3	-1.8	-1.0	2.7	11.1	(Q2
a	2. Other urban areas ¹	2.6	-2.9	-6.7	-7.5	-12.2	-11.5	-3.4	-7.1	-6.7	-4.6	4.8	6.5	(Q1
1.3	Price index of rents	3.9	3.6	2.4	0.8	-2.1	-6.8	-7.7	-4.4	-2.6	-2.2	-3.2	0.0	(7 mor
1.4	Price-to-rent ratio (2007=100) ²	97.9	91.0	84.7	79.4	71.6	68.5	68.6	68.2	68.3	69.2	72.7	78.0	(Q2
2. Indi	ces of commercial property prices an	d rents (Bo	G)											
2.1	Office price index													
a.	Total	-	-	-	-7.1	-11.9	-9.9	-3.5	-0.1	0.2	1.8	7.0		
а	1. Athens	3.8	-1.3	-9.8	-5.5	-10.0	-10.9	-3.2	-0.4	-0.4	1.7	9.0		
а	2. Thessaloniki	-	-	-	-7.3	-12.2	-9.9	-5.7	-5.1	0.8	0.9	5.4		
а	3. Rest of Greece		-		-9.0	-14.0	-8.7	-3.4	1.2	0.8	2.1	5.1		
2.2	Office rent index													
a.	Total		-		-4.3	-9.7	-7.5	-9.6	-1.5	-0.3	1.5	1.9		
а	1. Athens	-0.8	-4.9	-4.7	-5.5	-8.5	-7.3	-6.9	-2.3	-1.5	1.0	1.8		
а	2. Thessaloniki		-		-4.7	-4.2	-7.4	-8.0	-1.0	0.6	0.7	-0.3		
а	3. Rest of Greece	-	-	-	-2.9	-12.1	-7.7	-13.0	-0.6	0.9	2.2	2.6		
2.3	Retail price index													
a.	Total	-	-	-	-7.1	-11.1	-8.8	-1.8	-3.5	-0.4	1.7	4.3		
а	1. Athens	2.2	-3.4	-7.7	-7.7	-13.1	-8.2	-2.8	-2.4	-1.0	1.6	7.4		
a	2. Thessaloniki	-	-	-	-8.7	-13.2	-7.8	-1.2	-2.4	-0.4	1.1	0.3		
а	3. Rest of Greece				-5.6	-7.3	-9.8	-0.3	-5.3	0.4	2.1	0.8		
2.4 F	Retail rent index													
a.	Total					-8.7		-9.6	-7.5		-1.0			
	1. Athens	0.5	-1.2	-16.5			-12.6	-9.1	-7.1		-0.6	-0.2		
2	2. Thessaloniki	-	-	-	-5.0	-10.3	-5.5	-7.1	-4.6	-3.4	-1.6	-1.9		
u														

Sources: BoG: Bank of Greece, ELSTAT: Hellenic Statistical Authority, DSA: Athens Bar Association, TEE-TCG: Technical Chamber of Greece, EFKA: Single Social Security Fund, IOBE: Foundation for Economic and Industrial Research, Ktimatologio SA: Hellenic Cadastre, Athens Land Registry. 1 Data collected by the branches of BoG, mainly from real estate agencies.

2 In absolute terms.



BANK OF GREECE

EUROSYSTEM Economic Analysis and Research Department **Real Estate Market Analysis Section**

	SUMMARY TABLE OF KEY SHORT-TERM INDICATORS FOR THE REAL ESTATE MARKET (continued)														
	INDICATORS							ge annua		-					
		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017		2018		2019
	dices of residential property transactions														
3.1	Indices of residential property appraisals with MFI intermediation (04 4 ^(j)						
a.	Number of appraisals		-35.7		-42.5	-27.7	-21.1	-29.5	-24.1 ⁽ⁱ⁾						
b.	Volume of appraisals in square metres		-38.9		-39.8	-26.6	-21.7	-29.7	-27.4 ⁽ⁱ⁾						
С.	Value of appraisals		-40.0		-40.1	-35.9	-28.3	-35.8	-31.2 ⁽ⁱ⁾						
3.2	Indices of contracts of real estate ⁴ transactions with representatio				,		= 0.0 ⁽ⁱⁱ⁾								
a.	Number of contracts		-18.0					-92.7 ⁽ⁱⁱ⁾							
b.	Value of contracts	-2.3	-28.3	-20.8	-43.0	-45.5	-56.7 ⁽ⁱⁱ⁾	-77.8 ⁽ⁱⁱ⁾							
3.3	Indices of deed of real estate ⁴ transactions (ELSTAT)														
a.	Greece, total		-13.9		-29.1	-31.1	-13.7	-12.7	25.8	10.8	15.3				
b. 3.4	Athens Number of real estate ⁴ transactions (Hellenic National Cadastre)	-9.2	-14.0	-16.8	-32.4	-38.7	-19.5	-1.1	27.9	18.6	21.6				
a.	Greece, total	-	-16.3	-9.8	-28.1	-38.0	-17.5	-64.5 ⁽ⁱⁱⁱ⁾							
b.	Athens	-	-15.2	-12.5	-34.0	-43.8	-19.1	-50.1 ⁽ⁱⁱⁱ⁾							
3.5	Number of real estate ⁴ transfers (Hellenic National Cadastre)														
a.	Greece, total	-	-14.0	-13.0	-28.8	-39.3	-13.4	-62.8 ⁽ⁱⁱⁱ⁾							
b.	Athens	-	-8.0	-19.2	-33.6	-45.1	-17.2	-48.8 ⁽ⁱⁱⁱ⁾							
3.6	Number of residential property transfers recorded at the Athens land registry			-15.5	-30.5	-40.3	-10.4	-0.5	46.8	27.7	18.0	59.6	(8 months)		
4. Co	nstruction costs indices of (new) residential buildings (ELSTAT														
4.1	Total cost	5.1	-0.3	1.8	1.0	-0.1	-1.4	-3.1	-2.3	-1.7	0.1	0.6		0.1	(Q2)
4.2	Price index of work categories or producer's	4.2	-0.2	0.3	-0.1	-0.6	-1.1	-3.3	-2.8	-1.6	-0.2	0.4		-0.4	(Q2)
4.3	Labour cost	3.3	0.3	0.0	-1.1	-1.1	-1.4	-3.6	-2.8	-1.5	-0.2	0.0		0.2	(Q2)
4.4	Materials cost	6.4	-0.7	3.0	2.5	0.6	-1.5	-2.8	-2.0	-1.7	0.4	0.9		0.1	(7 months)
5. Pri	vate construction activity (ELSTAT)														
5.1	Greece, total														
a.	Number of building permits	-17.6	-16.1	-10.9	-28.4	-36.9	-27.7	-18.1	-0.9	-5.6	8.7	10.0		0.1	(5 months)
b.	Floor Space (in square metres)	-19.0	-24.4	-19.8	-41.4	-32.1	-28.3	-12.2	-3.3	-5.2	18.2	22.7			(5 months)
C.	Volume (in cubic metres)		-26.5			-30.6	-25.6	-5.8	-0.2	-6.9	19.4	21.3			(5 months)
5.2	Athens														(=
a.	Number of building permits	-28.7	-15.3	-13.8	-26.4	-47.9	-27.7	-28.4	-8.7	0.5	13.1	12.5		11.2	(5 months)
b.	Floor Space (in square metres)	-26.1	-18.6	-33.6	-44.0	-34.6	-36.1	-12.4	-24.3	18.2	26.8	29.7			(5 months)
C.	Volume (in cubic metres)		-19.4		-41.3	-34.7	-29.5	-4.7	-26.8	18.2	27.2	47.4			(5 months)
	nstruction activity														()
6.1	Cement production (volume, ELSTAT)	-3.1	-21.4	-14.3	-37.8	-12.8	3.4	-3.4	3.6	23.6	-4.5	5.4		-3.4	(5 months)
6.2	Public investment programme disbursements (BoG) ⁵	9.3	-2.8	-11.3	-17.1	-10.5	14.5	-0.9	-2.8	-1.8	-5.4	4.8			(6 months)
6.3	Production indices in construction (ELSTAT)														
a.	General Index	7.8	-17.5	-29.2	-41.3	-33.4	-8.2	15.5	3.1	22.9	-14.6	0.8		-18.5	(Q1)
b.	Construction of buildings	-0.5	-24.1	-39.7	-42.6	-34.5	-17.3	-0.3	12.5	18.1	-10.2	17.7		-15.3	(Q1)
C.	Civil engineering projects		-13.4			-32.3	1.9	29.7	-3.5		-17.9			-22.3	(Q1)
6. 4	Civil engineer fees (TEE-TCG)								2.5						(2 . /
a.	Total	6.2	-16.2	-2.1	-18.0 ^(iv)										
b.	Construction plan fees		-14.5		-7.8 ^(iv)										
	•														

Sources: BoG: Bank of Greece, ELSTAT: Hellenic Statistical Authority, DSA: Athens Bar Association, TEE-TCG: Technical Chamber of Greece, EFKA: Single Social Security Fund, IOBE: Foundation for Economic and Industrial Research, Ktimatologio SA: Hellenic Cadastre, Athens Land Registry.

3 The indices of residential property transactions are based on appraisal reports by banks' engineers regarding the value and qualitative characteristics of the residential properties underlying loan agreements. It cannot be excluded that part of such appraisals are not connected with transactions in residential property, but concern a renegotiation of existing loans, registration of a mortgage to back non-housing loans, debt transfers from one bank to another, etc.

4 Including all real estate categories of residential and commercial properties (dwellings, general stores, offices, building plots, rural plots, etc.)

5 From 2011 the data refer to actual payments and not credit in public investment account. (i) Data refer to the year-on-year percentage change in the second quarter of 2015.

(iii) The significant decrease in the number of real estate transactions with representation of lawyer in 2013 and 2014 is also due to the change in legislation, which makes legal representation mandatory - for the buyer only - when the transaction value is over 80,000 euro.

(iii) Data refer to the year-on-year percentage change in the first quarter of 2014.
 (iv) Data refer to the year-on-year percentage change in the first 10 months of 2011.



Economic Analysis and Research Department Real Estate Market Analysis Section

	SUMMARY TABLE OF KEY SHORT-TERM I	NDICA	TOR	S FO	R THE		L EST	ATE	MAR	KET (c	ontin	ued)		
	INDICATORS						ige ann				-			
		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018		2019
7. Em	ployment in construction (ELSTAT, Labour Force Survey)													
7.1	Total employees	0.1	-6.6	-12.7	-22.5	-17.4	-17.9	-10.4	-4.2	1.3	1.5	1.6	-3.1	(Q1)
a.	Self-employed person with employees	-3.7	-1.4	-8.9	-26.7	-32.3	-30.1	-26.9	-3.6	5.3	9.3	22.4	12.8	(Q1)
b.	Self-employed person without employees	-8.7	-2.4	-1.0	-5.5	8.4	-6.7	-15.6	-4.5	-0.3	6.7	-4.5	-17.4	(Q1)
с.	Employees	4.0	-8.9	-16.6	-25.9	-24.1	-21.5	-3.6	-3.3	2.1	-2.5	0.8	3.0	(Q1)
d.	Family workers	-22.8	4.6	-0.6	-38.4	-2.5	-18.6	-32.7	-34.9	-16.9	18.6	60.0	-15.6	(Q1)
8 Cor	nstruction projects data (EFKA)													
8.1	Number of contruction projects	11.2	16.7	-15.7	22.1	-38.0	-20.3	-2.8	-7.3	-2.5	-12.7	20.9	12.5	(2 months)
												20.8		(2 months)
8.2	Number of insured construction workers	-12.6		-21.3	-36.8	-35.4	-17.3	9.6	-5.9	-0.4	-9.6	13.3		(2 months)
8.3	Average days worked per month ²	14.2	13.6	13.1	12.3	12.1	12.8	13.3	13.1	13.5	13.8	14.1		(2 months)
8.4	Average wage	7.9	6.1	2.2	-0.7	-7.8	-23.8	-11.4	-4.1	-0.3	-0.1	-3.1	-0.4	(2 months)
	estment in construction (ELSTAT) and capital inflows (BoG)													
9.1	Investment in construction [®]													(2.1)
a.	Total construction			-24.0		-16.3	-12.9		-9.9	29.2		-18.4	10.2	(Q1)
b. 9.2	Dwellings Investment in construction as a percentage of GDP ^{2,6}	-23.9	-19.6	-26.2	-14.6	-37.9	-31.1	-53.3	-25.8	-12.5	-5.5	17.2	6.4	(Q1)
9.2 a.	Total construction	11.8	11.1	8.9	8.1	7.4	6.6	4.9	4.4	5.7	5.6	4.5	5.0	(Q1)
b.	Dwellings	7.6	6.4	5.0	4.7	3.1	2.2	1.0	0.8	0.7	0.6	0.7	0.7	(Q1)
9.3	Net capital inflows from abroad for property purchasing in Greece				41.8	13.2	57.6		-36.1	45.3		172.1		(6 months)
10. Bu	usiness Expectations (IOBE)													
10.1	Index of business expectations in construction (private activity)	3.0	-31.4	-27.4	-27.8	26.1	50.6	23.7	-29.9	-1.1	-9.6	4.8	-7.0	(8 months)
a.	Total private construction		-43.2		-18.1	-33.3	45.2	31.5	-3.8	50.1	-8.1			(8 months)
b.	Dwellings	-28.4	-32.4	-36.5	-42.5	139.7	37.3	-4.7	-32.2	44.4	18.8	13.5		(8 months)
c.	Other buildings	0.9	-46.8		-14.6	-47.5	47.3	39.7	-0.1	46.2	-7.6			(8 months)
d.	Public works	9.5	-24.6	-41.0	-33.9	75.2	46.1	18.6	-35.6	-21.3	-13.2	-2.6	3.9	(8 months)
10.2	Months of assured production in construction ²													. ,
a.	Total construction	17.3	15.9	12.9	11.1	8.4	12.7	11.2	10.2	9.1	7.8	7.7	6.6	(Aug.)
b.	Dwellings	11.7	11.0	8.3	5.1	3.2	5.7	1.9	1.2	1.1	1.1	2.5	9.4	(Aug.)
C.	Other buildings	9.9	8.4	7.9	6.0	3.9	4.7	4.3	4.6	6.6	5.7	6.2	4.2	(Aug.)
d.	Public works	21.1	19.8	15.2	14.2	11.0	15.7	13.5	11.9	10.3	9.1	8.8	7.5	(Aug.)
10.3	Activity relative to previous quarter ⁷													
a.	Total construction	9.5	-16.1	-39.0	-52.7	-44.8	-17.7	-20.6	-29.7	-27.2	-31.5	-34.9	-35.6	(Aug.)
b.	Dwellings	-22.4	-30.7	-58.1	-63.7	-47.6	-28.5	-38.9	-58.5	-43.5	-48.6	-7.9	7.1	(Aug.)
с.	Other buildings	25.6	-28.8	-27.9	-26.6	-66.9	-24.5	-33.0	-5.3	-1.2	6.7	10.8	-18.9	(Aug.)
d.	Public works	8.1	-8.2	-41.0	-67.0	-34.5	-14.3	-16.3	-35.0	-37.0	-47.4	-60.9	-48.9	(Aug.)
10.4	Planned future activity ⁷													
a.	Total construction	-28.8	-42.8	-63.2	-80.9	-76.4	-63.9	-52.3	-56.2	-61.8	-57.7	-62.8	-72.3	(Aug.)
b.	Dwellings	-38.9	-52.3	-84.6	-91.4	-71.4	-69.5	-71.5	-73.1	-60.2	-47.9	-46.9	-10.7	(Aug.)
с.	Other buildings	-22.7	-56.3	-45.5	-67.8	-85.9	-80.8	-69.4	-56.9	-33.4	-36.7	-43.5	-56.2	(Aug.)
d.	Public works	-30.0	-36.5	-67.6	-84.2	-72.9	-57.7	-46.9	-55.7	-72.9	-67.2	-75.3	-87.5	(Aug.)
10.5	Prospects of employment over the next 3-4 months ⁷													
a.	Total construction	10.4	-32.1	-46.4	-53.8	-41.3	-12.2	5.6	-36.3	-31.9	-46.3	-36.5	-42.4	(Aug.)
b.	Dwellings	-32.6	-60.9	-60.3	-76.9	-52.5	-26.1	-29.0	-59.5	-42.5	-36.5	-22.0	-6.3	(Aug.)
с.	Other buildings	6.9	-45.8	-36.7	-31.7	-61.3	-41.4	-22.0	-34.5	-7.8	-16.7	-7.3	-31.7	(Aug.)
d.	Public works	18.8	-21.2	-48.3	-60.3	-29.8	-0.2	15.4	-35.8	-41.7	-58.7	-52.5	-52.0	(Aug.)

Sources: BoG: Bank of Greece, ELSTAT: Hellenic Statistical Authority, DSA: Athens Bar Association, TEE-TCG: Technical Chamber of Greece, EFKA: Single Social Security Fund, IOBE: Foundation for Economic and Industrial Research, Ktimatologio SA: Hellenic Cadastre, Athens Land Registry.

2 In absolute terms.6 Constant prices.

7 Difference between weighted percentages of positive and negative replies.



BANK OF GREECE

EUROSYSTEM Economic Analysis and Research Department Real Estate Market Analysis Section

SUMMARY TABLE OF KEY SHORT-TERM INDICATORS FOR THE REAL ESTATE MARKET (continued)

INDICATORS		Average annual percentage changes													
	INDICATORS		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018		2019	
11. Ou	11. Outstanding balances of loans from domestic MFIs to households (BoG) ⁸														
11.1	Total	12.6	3.1	-1.2	-3.9	-3.8	-3.5	-2.9	-3.1	-2.8	-2.3	-2.2	-2.8	(Jul.)	
11.2	Housing loans	11.2	3.7	-0.3	-2.9	-3.4	-3.3	-3.0	-3.5	-3.5	-3.0	-2.8	-3.2	(Jul.)	
12. Ho	12. Housing loan interest rates (BoG) ²														
12.1	On new housing loans ⁹	5.3	4.1	3.8	4.7	3.6	3.1	3.3	3.0	3.1	3.1	3.3	3.4	(Jun.)	
12.2	On outstanding housing loans with initial maturity over 5 years	5.1	4.3	3.7	3.8	3.4	3.1	2.9	2.8	2.6	2.4	2.2	2.1	(Jun.)	
13. Ind	13. Indicators of financing stress (BoG) ²														
13.1	Percentage of non-performing housing loans ¹⁰	5.3	7.4	10.0	14.9	21.4	26.1	28.6	31.8	32.4	33.2	33.7			
13.2	Housing loans to households as a percentage of GDP ⁸	32.1	33.9	35.6	37.9	39.0	39.3	38.9	38.1	34.8	32.6	30.7	30.3	(Q1)	

Sources: BoG: Bank of Greece, ELSTAT: Hellenic Statistical Authority, DSA: Athens Bar Association, TEE-TCG: Technical Chamber of Greece, EFKA: Single Social Security Fund, IOBE: Foundation for Economic and Industrial Research, Ktimatologio SA: Hellenic Cadastre, Athens Land Registry.

4

2 In absolute terms.

8 End of period amounts, including loans and securitised loans.

9 Including charges other than interest (handling fees, mortgage registration fees, etc.).

10 End of period percentages.

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