

Briefing by the National Audit Office

HM Treasury, UK Financial Investments, UK Asset Resolution

Introduction to asset-backed securities

Our vision is to help the nation spend wisely.

Our public audit perspective helps Parliament hold government to account and improve public services.

The National Audit Office scrutinises public spending for Parliament and is independent of government. The Comptroller and Auditor General (C&AG), Sir Amyas Morse KCB, is an Officer of the House of Commons and leads the NAO, which employs some 785 people. The C&AG certifies the accounts of all government departments and many other public sector bodies. He has statutory authority to examine and report to Parliament on whether departments and the bodies they fund have used their resources efficiently, effectively, and with economy. Our studies evaluate the value for money of public spending, nationally and locally. Our recommendations and reports on good practice help government improve public services, and our work led to audited savings of £1.21 billion in 2015.

Contents

Introduction 4

Part One Introduction to securitisation 5

Part Two Securitisation in Europe and the UK 12

Appendix One Granite Securitisation 26

The National Audit Office study team consisted of: Gregor Botlik, Leanne Stickland and Imran Qureshi, under the direction

This report can be found on the National Audit Office website at www.nao.org.uk

of Simon Reason.

For further information about the National Audit Office please contact:

National Audit Office Press Office 157–197 Buckingham Palace Road Victoria London SW1W 9SP

Tel: 020 7798 7400

Enquiries: www.nao.org.uk/contact-us

Website: www.nao.org.uk

Twitter: @NAOorguk

Links to external websites were valid at the time of publication of this report. The National Audit Office is not responsible for the future validity of the links.

Introduction

1 This paper was prepared by the National Audit Office during fieldwork for our report, *The £13 billion sale of former Northern Rock assets.*¹ It is a factual briefing intended to provide the reader with an overview of the securitisation process and market data on securitisation in the UK and Europe.

- 2 The briefing is structured as follows:
- Part One provides an introduction to securitisation; and
- Part Two includes market data on securitisation in the UK and Europe.

3 The appendix provides further information about the Granite securitisation vehicle, which represented more than 90% of the asset value sold in the transaction.

1 Comptroller and Auditor General, *The £13 billion sale of former Northern Rock assets*, Session 2016-17, HC 513, National Audit Office, July 2016.

Part One

Introduction to securitisation

1.1 Securitisation is a financial process by which an owner of an asset, such as a portfolio of loans, receives cash upfront in exchange for the future cash flows from the asset without selling the asset in a normal contractual sales agreement. This process entails pooling the cash flows and selling them to investors via a special purpose vehicle (SPV), effectively turning 'illiquid' assets that cannot be sold easily into a 'liquid' asset that is tradable. If the income is 'backed' by underlying assets the securities are called 'asset-backed securities' (ABS).

1.2 There are two main reasons for carrying out a securitisation: 1) to obtain funding, because selling the cash flows allows the seller to bring forward the future income of the assets and use it for immediate reinvestment; and 2) to move assets off the balance sheet.

1.3 In principle, any asset with associated cash flows can be securitised, for example mortgages or loans such as credit cards, commercial loans and student loans. Depending on the underlying asset, the securities carry different names as shown in **Figure 1**.

Figure 1

Types of securities

Security name	Description
Residential mortgage- backed security (RMBS)	Backed by mortgages for the purchase of residential real estate. Includes 'prime' mortgages, where borrowers have strong credit histories, 'buy to let' mortgages, or 'non-conforming' mortgages.
Commercial mortgage- backed security (CMBS)	Backed by mortgages for the purchase of commercial property.
Consumer asset-backed security (Consumer ABS)	Backed by personal financial assets such as auto loans, credit cards, student loans and other consumer loans.
Corporate asset-backed security (Corporate ABS)	Backed by the cash flows from receivables such as leases on aircraft or other corporate equipment, small and medium enterprise (SME) loans, trade receivables. Also includes 'whole business' securities (WBS) based on the cash flows of an entire business unit, such as franchise or brand royalties.
Collateralised debt obligation (CDO)	Backed by a mixture of loans/receivables and/or asset-backed securities. Also includes 'collateralised loan obligations' (CLO) backed by loans, often to medium-sized corporates.
Source: National Audit Office	

1.4 The assets used in a securitisation can be either 'performing' or 'non-performing'. A performing asset involves underlying loans which are making payments as outlined in the contractual agreements. In relation to securitisations of mortgages, these transaction are sometimes called 'prime mortgages', especially if the borrowers under the mortgage have a strong credit quality (for example, no historic bankruptcy, arrears or County Court judgments). A non-performing asset means the underlying asset is either in default or close to being in default. The market generally considers an asset as non-performing if payments are more than three months in arrears. Once an asset becomes non-performing, the probability that it will be repaid in full is substantially lower, and therefore it negatively affects the value of the asset. The recent £13 billion sale of former Northern Rock assets mainly included performing assets.

1.5 The UK government owns financial assets that could be securitised. It owns these assets as a result of either financial intervention, such as the nationalisation of Northern Rock or Bradford & Bingley, or through government schemes such as Student Loans or Help to Buy. **Figure 2** lists some of these assets.

Figure 2

Government-owned assets that could be securitised

Category

Residential mortgages	UK Asset Resolution Limited (UKAR) holds £42.3 billion of assets as of May 2016. These are predominantly owner-occupier and buy-to-let type mortgages. UKAR has been actively reducing the assets on its balance sheet since 2014, for example:
	 the recent £13.3 billion sale of former Northern Rock assets which included securitised loans; and
	• a £2.7 billion sale of loans in 2014 which did not include a securitisation. The new owner subsequently used these loans in two securitisations.
Consumer loans	The Department for Business, Energy & Industrial Strategy owns \pounds 56.9 billion of Higher and Further Education loans as of March 2016 (carrying value).
Corporate loans	The British Business Bank supports $\pounds 2.3$ billion of finance to more than 40,000 smaller businesses and a further $\pounds 2.9$ billion of finance for small mid-cap businesses. ¹
Note	

1 British Business Bank annual report 2015. Not all of these assets may qualify for securitisations.

Source: National Audit Office

1.6 In relation to each of these assets, the owner ('originator'/'issuer' in **Figure 3** overleaf) of the asset has the following choices:

- Hold the asset and do nothing. The owner is exposed to the risk of the assets and in return receives income until the loans are either fully repaid by the borrowers or written off.
- Sell the assets. The owner receives cash from the sale, which allows it to pay off debt or use it for other purposes. It reduces the owner's exposure to risk but stops it receiving any income it previously enjoyed from the assets.
- Securitise the assets and sell the securities to investors. The owner receives cash from the securitisation process and income on the stake it retains in the securitisation over the life of the instrument. It retains legal ownership but does not achieve 'off-balance sheet' treatment on the stake it retains.
- If the owner inherited assets that are already securitised, as with Granite, its immediate option to achieve off-balance sheet treatment is a sale of the SPV and subsequent sale of the legal ownership.² Alternatively, it can buy back all the securities from the investors and 'unwind' the securitisation to open up the other options explained above.

Simplified securitisation structure

1.7 Figure 3 shows a typical securitisation deal structure and the different parties involved, using mortgages as an example. A company ('originator') sells a pool of assets (mortgages), which it has either originated itself or bought from a third party, to an SPV. The SPV funds this purchase by issuing securities (bonds) to investors. The return to investors on those securities is directly linked to the cash flows on the underlying assets – namely the principal and interest repayments of the mortgages.

Tranching of securitisations

1.8 The pool of assets in a securitisation generates a cash flow to investors. The cash flow is divided into 'tranches', where each tranche has a different level of priority in the payment of interest and repayment of principal. Each tranche usually requires a credit rating to ascertain the risk associated with the tranche. The structure of the tranches make up the capital structure of the securitisation vehicle.

Typical deal structure for mortgage-backed securities (simplified)



Main parties involved in a securitisation

Parties involved	Role
Originator/seller	Bank, financial institution or a company which issued loans or mortgages (the assets) to third parties (borrowers), or acquired a pool of assets which can be securitised. Sometimes referred to as the 'seller'. It sells these assets to be securitised to the issuer (SPV).
Issuer (SPV)	Special purpose vehicle set up specifically to execute the securitisation – that is, to package the cash flows of the assets (for example, loans or mortgages) into securities that it sells to investors. It is a separate legal entity to the originator, which is necessary to achieve 'off-balance-sheet' treatment (as explained in paragraph 1.12). If the issuer does not engage in any lending or a regulated activity, it may not have to be regulated by the Financial Conduct Authority (FCA).
Borrowers	Individuals or companies taking out a loan with a financial institution or a company.
Investors	The purchaser of the securities. For example, asset managers, pension funds, banks or hedge funds.
Additional parties:	
Servicer	Collects repayments on the asset (for example, mortgage interest and principal) and monitors the performance of the pool of assets (for example, by dealing with borrowers who are in arrears). The servicer has to be FCA-regulated.
Rating agencies	Rate the quality of the securities based on the quality of the underlying assets and the structure of the deal.
Third parties	For example, financial guarantors, which allows the originator to reduce the risk of the securities to make them more attractive to investors.
Advisers	Financial and legal advisers to assist in structuring the securitisation and selling the securities to investors.
Source: National Audit Office	

1.9 Figure 4 sets out a typical 'tranching' structure where each tranche has a specific risk profile to appeal to investors with different risk appetites. The risk of each tranche is given a credit rating based on the likelihood of payment. All tranches are backed by the same pool of assets, but generally tranche AAA (the lowest risk) gets paid first, tranche AA is paid second and so on, provided there is enough money left after paying the previous tranche. The bottom piece of the capital structure is the 'excess spread', which is the difference between the overall interest rate received on the underlying assets and what is paid out to investors on all tranches. It represents the first buffer against losses for the entire capital structure. This repayment schedule is referred to as the 'waterfall' structure. It is applied to both interest and principal payments.

Figure 4

Illustration of a typical tranching structure





Notes

- 1 Higher-grade securities are said to be of 'investment grade'.
- 2 Lower-grade securities for example, C grade can be issued if there is interest from investors.

1.10 The tranching process creates tranches of securities with a higher credit rating than the average credit risk of the underlying asset pool. Losses are absorbed by the lowest tranche first so as to protect the higher-grade securities. Lower-grade securities are cheaper, but their return is higher to compensate investors for taking on higher risk.

1.11 The performance of the securities depends on that of the underlying assets. There are multiple performance and risk indicators that investors can look at. The main ones in relation to owner-occupier type mortgages include:

- the arrears rate, to know how many borrowers are repaying their mortgages late;
- the default rate, to know the number of homes repossessed each year;
- the constant prepayment rate (CPR), to know how many borrowers are repaying their loans early;³ and
- the loan-to-value ratio of the mortgage book, to know the value of the loan relative to the value of the underlying property.

Legal structure

1.12 The SPV is typically 'bankruptcy remote', meaning it is separate from the originator. The implications are that if the originator goes bankrupt, the assets held in the SPV will not be handed to the originator's creditors. Equally, if the assets in the SPV perform badly, the originator is more insulated.⁴ The bankruptcy remoteness is also a pre-condition if the originator aims to achieve off-balance sheet treatment.

1.13 There are different types of securitisation vehicles. Mainstream securitisations currently set up standalone SPVs for every securitisation transaction. The alternative is a 'master trust', where the originator is able to add mortgages to the trust and/or replace some of the existing ones. The trust can consequently issue multiple batches of securities for as long as it performs according to the contractual terms. Each series is backed by the same pool of underlying assets.

1.14 In a master trust, the originator must retain a minimum share in the securitisation called the 'seller's share'. It pays the originator the 'excess spread' (interest element on the mortgages) illustrated in Figure 4, but only after every other tranche is paid first.

³ To compensate for prepayment risk, there is often a penalty imposed on borrowers repaying early. In relation to the £13 billion sale of former Northern Rock asset, UKAR abolished early repayment fees on borrowers, and the winning bidder is required to keep this in place for one year.

⁴ This separation is, however, never absolute because the originator is required by law to retain a stake in the SPV (explained in paragraph 1.16 in this Briefing). In addition, when the originator is the servicer of the loans, the structure remains exposed to the originator's performance despite the assets being physically separate from it.

1.15 There are two main ways in which a master trust can go wrong:

• Breach of the 'asset trigger'

This trigger is breached when the performance of the underlying loans falls below a threshold. When this happens, both the investors and the seller (through the seller share) see their interest and principal payments adjusted down on a pro rata basis.

Breach of the 'non-asset trigger'

This happens when default events occur which are unrelated to the performance of the assets in the securitisation. For example, insolvency of the issuer, absence of servicer, or breach to maintain the minimum seller's share. In this case, the originator irreversibly loses rights to its share of the principal repayments until the investors are entirely repaid. This is to say that the seller's share of principal repayments is deferred but preserved. Additionally, if the originator breaches its seller share, it loses the ability to sell additional mortgages to the SPV to issue more securities. When this occurs, the securitisation is said to be in 'pass through' mode.

1.16 Regulations introduced following the financial crisis legally require originators of a securitisation to retain a minimum 5% share of risk in it. This risk retention ratio applies to all SPV structures and is designed to align incentives between the originator and the investors.

Part Two

Securitisation in Europe and the UK

2.1 The UK is the largest player in the European securitisation market. At the end of the fourth quarter 2015 the total market of outstanding securitisations in Europe was £865 billion. **Figure 5** shows that the UK represented nearly 30% of this market. The second-largest market is the Netherlands, with an 18% share.

Figure 5

Geographical split of outstanding asset-backed securities in Europe as at the end of 2015



The UK has the largest market share

Notes

- 1 Europe: European cross-border deals. Other: Austria, Finland, Greece, Ireland, Portugal and some other European countries not specified in the original data source.
- 2 This includes both retained and distributed securities. 'Retained' securities are those that the issuer holds on to. 'Distributed' securities are those that the issuer sells to the market.

Source: Association for Financial Markets in Europe; National Audit Office analysis

2.2 Retail mortgage-backed securities (RMBS) make up the largest part of the market. They constitute 60% of Europe's market as a whole, and 47% of the UK's, as shown in **Figure 6**. Other large categories are 'whole business securitisation' (WBS) and commercial mortgage-backed securities (CMBS).

Figure 6

Composition of the asset-backed securities outstanding in the UK as at the end of 2015

Retail mortgage-backed securities make up 50% of the UK market



Notes

- 1 This includes both retained and distributed securities. 'Retained' securities are those that the issuer holds on to. 'Distributed' securities are those that the issuer sells to the market.
- 2 WBS stands for 'whole business securitisation', where the cash flows of an entire business are used in the securitisation process.

Source: Association for Financial Markets in Europe; National Audit Office analysis

Issuance

2.3 The issuance of securities is still very low compared to pre-financial crisis levels. **Figure 7** shows that there was a significant slow-down in the market after the crisis, reaching a low point in 2013. 2014 and 2015 fared better, but just marginally. In 2015, a total of £141.4 billion of securities were issued in Europe.

2.4 The UK was the largest issuer in 2015, issuing £36.8 billion of securities. It also ranked highly in previous years. **Figure 8** on page 16 shows that Germany was the second-largest player in 2015, mainly owing to large issuances from car manufacturers.

2.5 The majority of the UK's activity was focused on RMBS, as shown in **Figure 9** on page 16. This focus was also the case for the majority of the other countries in Europe.

2.6 Since 2013, the average size of European transactions of RMBS has been increasing, as shown in **Figure 10** on page 17. The Granite sale contributed to a substantial part of the Quarter 1 2016 increase as Cerberus issued \pounds 6.2 billion of notes through the securitisation vehicle Towd Point; \pounds 6.2 billion is more than three times larger than the average size of other deals in that period.

2.7 Figure 11 on pages 18 to 21 shows the main financial advisers involved in a lead role ('bookrunner') in European securitisations, ranked by the volume of issuance by year. Credit Suisse advised on the sale of Granite.

Total European and UK issuance of asset-backed securities between 2007–2015 (\pounds billion)

Issuance volumes dropped substantially between 2008 and 2013

Europe

Total issuance (£bn)

UK





Notes

1 This includes both retained and distributed securities. 'Retained' securities are those that the issuer holds on to. 'Distributed' securities are those that the issuer sells to the market.

2 Europe includes: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxemburg, Netherlands, Norway, Poland, Portugal, Slovakia, Spain, Sweden, Switzerland, UK and some cross-border deals involving at least one European country. Not all of these countries issued in all of the years.

2015 issuance of asset-backed securities by European country

The UK issued more than 25% of securities in Europe



Notes

- 1 This includes both retained and distributed securities. 'Retained' securities are those that the issuer holds on to. 'Distributed' securities are those that the issuer sells to the market.
- 2 Other: Belgium, Switzerland, Ireland, Norway, Sweden, Finland, Austria and a small amount of European cross-border deals.

Source: J.P. Morgan data; National Audit Office analysis

Figure 9

Types of securities issued by the UK in 2015

Retail mortgage-backed securities represents 60% of UK's securitisation market



Note

1 This includes both retained and distributed securities. 'Retained' securities are those that the issuer holds on to. 'Distributed' securities are those that the issuer sells to the market.

Average size of European retail mortgage-backed securities deals

Average deal size increased since 2013

Average deal size (£bn)



Notes

1 This includes both retained and distributed securities. 'Retained' securities are those that the issuer holds on to. 'Distributed' securities are those that the issuer sells to the market.

2 This includes both prime, buy-to-let and non-conforming mortgages.

3 Each transaction can be made up of several tranches issued as part of the same series.

2013 to Q2 2016 ranking of firms executing European and UK securitisations

2013 - Q2 2016 European Asset-backed Securities (ABS) and Mortgage-backed Securities (MBS) bond bookrunner ranking for top 10

Q1-2 20	16				Q1-4 20	15				
Rank	Bookrunner parents	Deal value (Proceeds, \$m)	Number	Share (%)	Rank	Bookrunner parents	Deal value (Proceeds, \$m)	Number	Share (%)	
1	Lloyds Banking Group	7,894	13	14.7	1	HSBC	8,375	12	9.4	
2	Bank of America Merrill Lynch	5,823	12	10.8	2	Commerzbank Group	7,721	9	8.7	
3	Citi	5,400	12	10.0	3	Bank of America Merrill Lynch	7,286	26	8.2	
4	Credit Suisse	3,410	8	6.3	4	Citi	5,626	18	6.3	
5	Morgan Stanley	2,398	4	4.5	5	Barclays	5,493	11	6.2	
6	HSBC	2,357	8	4.4	6	Morgan Stanley	3,745	11	4.2	
7	UniCredit	1,849	4	3.4	7	Deutsche Bank	3,663	12	4.1	
8	Natixis	1,837	3	3.4	8	Lloyds Banking Group	3,576	12	4.0	
9	JPMorgan	1,799	3	3.4	9	UniCredit	3,455	8	3.9	
10	BNP Paribas	1,623	7	3.0	10	Credit Agricole CIB	3,249	11	3.7	
	Subtotal	34,391	74	64.0		Subtotal	52,188	130	58.8	
	Total	53,772	69	100.0		Total	88,813	139	100.0	
					1					

Q1-4 201	4				Q1-4 20	13			
Rank	Bookrunner parents	Deal value (Proceeds, \$m)	Number	Share (%)	Rank	Bookrunner parents	Deal value (Proceeds, \$m)	Number	Share (%)
1	JPMorgan	10,743	21	13.2	1	JPMorgan	10,746	16	14.3
2	Citi	5,972	15	7.3	2	Barclays	5,608	13	7.5
3	Bank of America Merrill Lynch	5,755	15	7.1	3	Bank of America Merrill Lynch	5,378	13	7.2
4	Deutsche Bank	5,184	16	6.4	4	SG Corporate & Investment Banking	5,289	11	7.0
5	Barclays	4,840	15	5.9	5	Deutsche Bank	4,944	11	6.6
6	HSBC	4,483	12	5.5	6	Citi	3,709	12	4.9
7	Lloyds Banking Group	3,800	11	4.7	7	Rabobank	3,620	6	4.8
8	Credit Suisse	3,562	9	4.4	8	HSBC	3,312	13	4.4
9	Rabobank	3,307	7	4.1	9	RBS	3,034	13	4.0
10	Credit Agricole CIB	3,270	8	4.0	10	Credit Suisse	2,502	11	3.3
	Subtotal	50,914	129	62.5		Subtotal	48,142	106	64.0
	Total	81,454	115	100.0		Total	75,274	116	100.0

Q1-2 20	16				Q1-4 20	15			
Rank	Bookrunner parents	Deal value (Proceeds, \$m)	Number	Share (%)	Rank	Bookrunner parents	Deal value (Proceeds, \$m)	Number	Share (%)
1	Lloyds Banking Group	6,962	12	29.1	1	Bank of America Merrill Lynch	5,280	17	19.3
2	Bank of America Merrill Lynch	3,157	7	13.2	2	Barclays	3,790	5	13.8
3	Credit Suisse	2,903	5	12.1	3	Citi	3,548	12	13.0
4	Citi	2,379	7	9.9	4	Morgan Stanley	2,888	9	10.5
5	Morgan Stanley	2,015	3	8.4	5	Lloyds Banking Group	2,192	7	8.0
6	Natixis	1,774	2	7.4	6	Goldman Sachs	1,853	3	6.8
7	HSBC	1,054	4	4.4	7	Deutsche Bank	1,566	5	5.7
8	Barclays	874	3	3.7	8	Credit Suisse	1,276	3	4.7
9	Deutsche Bank	656	2	2.7	9	RBS	806	3	2.9
10	Wells Fargo Securities	500	1	2.1	10	JPMorgan	762	3	2.8
	Subtotal	22,275	46	93.0		Subtotal	23,961	67	87.5
	Total	23,961	25	100.0		Total	27.385	40	100.0
							,	-	
Q1-4 20	14				Q1-4 20	13	,		
Q1-4 20 Rank	14 Bookrunner parents	Deal value (Proceeds, \$m)	Number	Share (%)	Q1-4 20 Rank	13 Bookrunner parents	Deal value (Proceeds, \$m)	Number	Share (%)
Q1-4 20 Rank	14 Bookrunner parents JPMorgan	Deal value (Proceeds, \$m) 6,113	Number 6	Share (%) 22.6	Q1-4 20 Rank 1	13 Bookrunner parents Barclays	Deal value (Proceeds, \$m) 3,684	Number 6	Share (%) 23.6
Q1-4 20 Rank 1 2	14 Bookrunner parents JPMorgan Lloyds Banking Group	Deal value (Proceeds, \$m) 6,113 2,600	Number 6 7	Share (%) 22.6 9.6	Q1-4 20 Rank 1 2	13 Bookrunner parents Barclays Deutsche Bank	Deal value (Proceeds, \$m) 3,684 1,772	Number 6 4	Share (%) 23.6 11.4
Q1-4 20 Rank 1 2 3	14 Bookrunner parents JPMorgan Lloyds Banking Group Bank of America Merrill Lynch	Deal value (Proceeds, \$m) 6,113 2,600 2,524	Number 6 7 7	Share (%) 22.6 9.6 9.3	Q1-4 20 Rank 1 2 3	13 Bookrunner parents Barclays Deutsche Bank Lloyds Banking Group	Deal value (Proceeds, \$m) 3,684 1,772 1,708	Number 6 4 7	Share (%) 23.6 11.4 11.0
Q1-4 20 Rank 1 2 3 4	14 Bookrunner parents JPMorgan Lloyds Banking Group Bank of America Merrill Lynch Deutsche Bank	Deal value (Proceeds, \$m) 6,113 2,600 2,524 2,461	Number 6 7 7 7	Share (%) 22.6 9.6 9.3 9.1	Q1-4 20 Rank 1 2 3 4	Bookrunner parents Barclays Deutsche Bank Lloyds Banking Group RBS	Deal value (Proceeds, \$m) 3,684 1,772 1,708 1,191	Number 6 4 7 6	Share (%) 23.6 11.4 11.0 7.6
Q1-4 20 Rank 1 2 3 4 5	14 Bookrunner parents JPMorgan Lloyds Banking Group Bank of America Merrill Lynch Deutsche Bank Citi	Deal value (Proceeds, \$m) 6,113 2,600 2,524 2,461 2,111	Number 6 7 7 7 7 5	Share (%) 22.6 9.6 9.3 9.1 7.8	Q1-4 20 Rank 1 2 3 4 5	Bookrunner parents Barclays Deutsche Bank Lloyds Banking Group RBS Bank of America Merrill Lynch	Deal value (Proceeds, \$m) 3,684 1,772 1,708 1,191 1,131	Number 6 4 7 6 5	Share (%) 23.6 11.4 11.0 7.6 7.3
Q1-4 20 Rank 1 2 3 4 5 6	14 Bookrunner parents JPMorgan Lloyds Banking Group Bank of America Merrill Lynch Deutsche Bank Citi Credit Suisse	Deal value (Proceeds, \$m) 6,113 2,600 2,524 2,461 2,111 2,089	Number 6 7 7 7 7 5 6	Share (%) 22.6 9.6 9.3 9.1 7.8 7.7	Q1-4 20 Rank 1 2 3 4 5 6	Bookrunner parents Barclays Deutsche Bank Lloyds Banking Group RBS Bank of America Merrill Lynch Credit Suisse	Deal value (Proceeds, \$m) 3,684 1,772 1,708 1,191 1,131 1,073	Number 6 4 7 6 5 4	Share (%) 23.6 11.4 11.0 7.6 7.3 6.9
Q1-4 20 Rank 1 2 3 4 5 6 7	14 Bookrunner parents JPMorgan Lloyds Banking Group Bank of America Merrill Lynch Deutsche Bank Citi Credit Suisse HSBC	Deal value (Proceeds, \$m) 6,113 2,600 2,524 2,461 2,111 2,089 1,889	Number 6 7 7 7 7 5 5 6 5	Share (%) 22.6 9.6 9.1 7.8 7.7 7.0	Q1-4 20 Rank 1 2 3 4 5 6 7	Bookrunner parents Barclays Deutsche Bank Lloyds Banking Group BBS Bank of America Merrill Lynch Credit Suisse JPMorgan	Deal value (Proceeds, \$m) 3,684 1,772 1,708 1,191 1,131 1,073 914	Number 6 4 7 6 6 5 5 4 3	Share (%) 23.6 11.4 11.0 7.6 7.3 6.9 5.9
Q1-4 20 Rank 1 2 3 4 5 6 7 8	14 Bookrunner parents JPMorgan Lloyds Banking Group Bank of America Merrill Lynch Deutsche Bank Citi Credit Suisse HSBC	Deal value (Proceeds, \$m) 6,113 2,600 2,524 2,524 2,461 2,111 2,089 1,889 1,061	Number 6 7 7 7 5 5 6 5 5 3	Share (%) 22.6 9.6 9.1 7.8 7.7 7.0 3.9	Q1-4 20 Rank 1 2 3 4 5 6 7 8	Bookrunner parents Barclays Deutsche Bank Lloyds Banking Group Bank of America Merrill Lynch Credit Suisse JPMorgan Morgan Stanley	Deal value (Proceeds, \$m) 3,684 1,772 1,708 1,191 1,131 1,073 914 849	Number 6 4 7 6 6 5 5 4 4 3 3	Share (%) 23.6 11.4 11.0 7.6 7.3 6.9 5.9 5.5
Q1-4 20 Rank 1 2 3 4 5 6 7 8 9	14 Bookrunner parents JPMorgan Lloyds Banking Group Bank of America Merrill Lynch Deutsche Bank Citi Credit Suisse HSBC RBS Barclays	Deal value (Proceeds, \$m) 6,113 2,600 2,524 2,461 2,111 2,089 1,889 1,061 827	Number 6 7 7 5 6 3 3	Share (%) 22.6 9.6 9.7 9.3 9.1 7.8 7.7 7.0 3.9 3.1	Q1-4 20 Rank 1 2 3 4 5 5 6 7 8 9	Bookrunner parents Barclays Deutsche Bank Lloyds Banking Group RBS Bank of America Merrill Lynch Credit Suisse JPMorgan Morgan Stanley Goldman Sachs	Deal value (Proceeds, \$m) 3,684 1,772 1,708 1,101 1,131 1,073 914 849 643	Number 6 4 7 6 5 4 3 3 2	Share (%) 23.6 11.4 11.0 7.6 7.3 6.9 5.9 5.5 4.1
Q1-4 20 Rank 1 2 3 4 5 6 7 8 9 10	14 Bookrunner parents JPMorgan Lloyds Banking Group Bank of America Merrill Lynch Deutsche Bank Citi Credit Suisse HSBC RBS Barclays Goldman Sachs	Deal value (Proceeds, \$m) 6,113 2,600 2,524 2,461 2,111 2,089 1,889 1,889 1,061 827 823	Number 6 7 7 7 5 5 6 5 5 3 3 3 2	Share (%) 22.6 9.6 9.7 9.3 9.1 7.8 7.7 7.0 3.9 3.1 3.0	Q1-4 20 Rank 1 2 3 4 5 6 7 8 8 9 10	Bookrunner parents Barclays Deutsche Bank Lloyds Banking Group BBS Deutische Sunking Oredit Suisse JPMorgan Morgan Stanley Goldman Sachs Santander	Deal value (Proceeds, \$m) 3,684 1,772 1,708 1,101 1,131 1,073 914 849 643 643 522	Number 6 4 7 6 6 5 4 3 4 3 4 3 2 2	Share (%) 23.6 11.4 11.0 7.6 7.3 6.9 5.9 5.5 4.1 3.4
Q1-4 20 Rank 1 2 3 4 5 6 7 8 9 10	14 Bookrunner parents JPMorgan Lloyds Banking Group Bank of America Merrill Lynch Deutsche Bank Citi Credit Suisse HSBC Barclays Goldman Sachs Subtotal	Deal value (Proceeds, \$m) 6,113 2,600 2,524 2,461 2,111 2,111 2,089 1,889 1,889 1,061 827 823 22,498	Number 6 7 7 7 5 5 6 5 5 3 3 3 3 2 2 51	Share (%) 22.6 9.6 9.1 7.8 7.7 3.9 3.1 3.0 83.0	Q1-4 20 Rank 1 2 3 4 5 6 7 8 9 10	Bookrunner parents Barclays Deutsche Bank Lloyds Banking Group Bask of America Merrill Lynch Credit Suisse JPMorgan Goldman Stanley Goldman Sachs Santander Subtotal	Deal value (Proceeds, \$m) 3,684 1,772 1,708 1,191 1,131 1,073 914 849 643 522 13,487	Number 6 4 7 6 6 5 5 4 3 4 3 3 2 2 2 2 2 42	Share (%) 23.6 11.4 11.0 7.6 7.3 6.9 5.9 5.5 4.1 3.4 86.5

2013 – Q2 2016 UK ABS and MBS bond bookrunner ranking for top 10

Figure 11 *continued* 2013 to Q2 2016 ranking of firms executing European and UK securitisations

2013 - Q2 2016 European Residential Mortgage-backed Securities (RMBS) bond bookrunner ranking for top 10

Q1-2 2016 Q1-4 2015 Rank Bookrunner Deal value Number Share (%) Rank Bookrunner Deal value Number Share (%) parents (Proceeds, \$m) parents (Proceeds, \$m) 1 Lloyds Banking 5,956 8 20.9 1 Barclays 4,256 7 13.5 Group 2 Bank of America 4,331 6 15.2 2 Bank of America 3,822 14 12.1 Merrill Lynch Merrill Lynch З Citi 3,046 6 10.7 З 2,866 8 9.1 Citi 4 4 8 Morgan Stanley 2,015 З 7.1 Morgan Stanley 2,674 8.5 5 1,799 3 6.3 4 JPMorgan 5 Rabobank 2,172 6.9 6 Natixis 2 6.2 6 Credit Suisse 1,705 4 5.4 1,774 7 Credit Suisse 1,753 2 6.2 7 Deutsche Bank 1,598 5 5.1 8 Banco de Sabadell 1,535 5.4 8 JPMorgan 1,483 6 4.7 1 SA 9 Rabobank 1,449 З 5.1 9 UniCredit 1,437 4 4.5 10 HSBC 909 З 3.2 10 RBS 1,270 4 4.0 Subtotal 24,568 37 86.4 Subtotal 64 73.6 23,283 Total 28,446 20 100.0 Total 31,616 39 100.0 Q1-4 2014 Q1-4 2013 Rank Bookrunner Deal value Rank Bookrunner Deal value Share (%) Number Share (%) Number parents (Proceeds, \$m) parents (Proceeds, \$m) JPMorgan 2,682 8,711 1 Rabobank 5 18.9 1 8 347 2 JPMorgan 1,874 5 13.2 2 Rabobank 2,164 5 8.6 З RBS 1,338 4 З Deutsche Bank 3 7.1 9.4 1.776 4 Citi 970 2 6.8 4 ING 1,640 2 6.5 5 З 5 RBS Barclays 856 6.0 1,543 6 6.2 6 788 6 3 Natixis 4 5.6 SG Corporate & 1,403 5.6 Investment Banking 7 ABN AMRO Bank 7 749 2 5.3 Barclays 1,209 4 4.8 8 HSBC 2 5 733 5.2 8 Lloyds Banking 980 3.9 Group 9 Lloyds Banking 645 4 4.5 9 Morgan Stanley 813 2 3.2 Group 10 Deutsche Bank 620 З 4.4 10 Citi 749 З 3.0 Subtotal 11,255 34 79.3 Subtotal 20,988 41 83.7 Total 14,200 19 100.0 Total 15,585 100.0 28

Notes

1 ABS and MBS include RMBS, CMBS, mortgage-backed agencies, commercial mortgages, CDOs and CLOs including consumer loan type securitisations. UK RMBS excludes CMBS. Transactions where issuer and investor are related parties are included subject to Dealogic's discretion.

2 Where appropriate we have rounded totals. Total row takes into account all deals, subtotals are for top 10 only.

Q1-2 201	6				Q1-4 20	15			
Rank	Bookrunner parents	Deal value (Proceeds, \$m)	Number	Share (%)	Rank	Bookrunner parents	Deal value (Proceeds, \$m)	Number	Share (%)
1	Lloyds Banking Group	5,956	8	31.9	1	Barclays	3,790	5	22.3
2	Bank of America Merrill Lynch	2,796	5	15.0	2	Bank of America Merrill Lynch	3,141	11	18.5
3	Morgan Stanley	2,015	3	10.8	3	Morgan Stanley	2,402	7	14.2
4	Natixis	1,774	2	9.5	4	Citi	2,195	7	12.9
5	Credit Suisse	1,753	2	9.4	5	Deutsche Bank	1,115	3	6.6
6	Citi	1,511	5	8.1	6	Credit Suisse	1,002	2	5.9
7	HSBC	909	3	4.9	7	Lloyds Banking Group	825	5	4.9
8	Deutsche Bank	656	2	3.5	8	RBS	712	2	4.2
9	Barclays	475	2	2.5	9	HSBC	542	2	3.2
10	BNP Paribas	332	2	1.8	10	Banco de Sabadell SA	278	1	1.6
	Subtotal	18,179	34	97.5		Subtotal	16,001	45	94.3
	Total	18,926	14	100.0		Total	17,185	19	100.0
01 4 201	1				01 4 20	10			
Q1-4 201					Q1-4 20	15			
Rank	Bookrunner parents	Deal value (Proceeds, \$m)	Number	Share (%)	Rank	Bookrunner parents	Deal value (Proceeds, \$m)	Number	Share (%)
Rank	Bookrunner parents HSBC	Deal value (Proceeds, \$m) 733	Number 2	Share (%) 13.3	Rank	Bookrunner parents JPMorgan	Deal value (Proceeds, \$m) 914	Number 3	Share (%) 16.5
Rank 1 2	Bookrunner parents HSBC JPMorgan	Deal value (Proceeds, \$m) 733 715	Number 2 2	Share (%) 13.3 12.9	Rank 1	Bookrunner parents JPMorgan Barclays	Deal value (Proceeds, \$m) 914 896	Number 3 3	Share (%) 16.5 16.2
Rank 1 2 3	Bookrunner parents HSBC JPMorgan Barclays	Deal value (Proceeds, \$m) 733 715 567	Number 2 2 2 2	Share (%) 13.3 12.9 10.3	Rank 1 2 3	Bookrunner parents JPMorgan Barclays RBS	Deal value (Proceeds, \$m) 914 896 794	Number 3 3 3	Share (%) 16.5 16.2 14.3
I 2 3 4	Bookrunner parents HSBC JPMorgan Barclays RBS	Deal value (Proceeds, \$m) 733 715 567 494	Number 2 2 2 2 2	Share (%) 13.3 12.9 10.3 8.9	Rank 1 2 3 4	Bookrunner parents JPMorgan Barclays RBS Deutsche Bank	Deal value (Proceeds, \$m) 914 896 794 744	Number 3 3 3 2	Share (%) 16.5 16.2 14.3 13.4
Cline Clin Cline Cline <thc< td=""><td>Bookrunner parents HSBC JPMorgan Barclays RBS Lloyds Banking Group</td><td>Deal value (proceeds, \$m) 733 715 567 494 425</td><td>Number 2 2 2 2 2 2 2 3</td><td>Share (%) 13.3 12.9 10.3 8.9 7.7</td><td>Rank 1 2 3 4 5</td><td>Bookrunner parents JPMorgan Barclays RBS Deutsche Bank Lloyds Banking Group</td><td>Deal value (Proceeds, \$m) 914 896 794 744 464</td><td>Number 3 3 3 2 2 3</td><td>Share (%) 16.5 16.2 14.3 13.4 8.4</td></thc<>	Bookrunner parents HSBC JPMorgan Barclays RBS Lloyds Banking Group	Deal value (proceeds, \$m) 733 715 567 494 425	Number 2 2 2 2 2 2 2 3	Share (%) 13.3 12.9 10.3 8.9 7.7	Rank 1 2 3 4 5	Bookrunner parents JPMorgan Barclays RBS Deutsche Bank Lloyds Banking Group	Deal value (Proceeds, \$m) 914 896 794 744 464	Number 3 3 3 2 2 3	Share (%) 16.5 16.2 14.3 13.4 8.4
I 2 3 4 5 6	Bookrunner parents HSBC JPMorgan Barclays RBS Lloyds Banking Group Deutsche Bank	Deal value (proceeds, \$m) 733 715 567 494 425 367	Number 2 2 2 2 2 2 3 3 2 2	Share (%) 13.3 12.9 10.3 7.7 6.6	G1-4 20 Rank 1 2 3 4 5 6	Bookrunner parents JPMorgan Barclays RBS Deutsche Bank Lloyds Banking Group Credit Suisse	Deal value (Proceeds, \$m) 914 896 794 744 464 448	Number 3 3 3 2 2 3 2	Share (%) 16.5 16.2 14.3 13.4 8.4 8.1
Rank 1 2 3 4 5 6 6	Bookrunner parents HSBC JPMorgan Barclays Barclays RBS Lloyds Banking Group Deutsche Bank Bank of America Merrill Lynch	Deal value 733 733 715 644 700 700 715 700	Number 2 2 2 2 2 2 3 3 2 2 2	Share (%) 13.3 12.9 10.3 8.9 7.7 6.6 6.6	Rank 1 2 3 4 5 6 7	Bookrunner parents JPMorgan Barclays RBS Deutsche Bank Lloyds Banking Group Credit Suisse National Australia Bank	Deal value (Proceeds, \$m) 914 896 794 744 464 209	Number 3 3 3 2 2 3 2 2 2 1	Share (%) 16.5 16.2 14.3 13.4 8.4 8.1 3.8
Rank 1 2 3 4 5 6 6 6	Bookrunner parents HSBC JPMorgan Barclays Barclays RBS Lloyds Banking Group Deutsche Bank Bank of America Bank of America Santander	Deal value, 1733 733 715 494 492 367 367 367	Number 2 2 2 2 2 3 3 2 2 2 2	Share (%) 13.3 12.9 10.3 8.9 7.7 6.6 6.6 6.6	Rank 1 2 3 4 5 6 7 8	Bookrunner parents JPMorgan Barclays RBS Deutsche Bank Lloyds Banking Group Credit Suisse Credit Suisse National Australia Bank Natixis	Deal value (Proceeds, \$m) 914 896 794 794 464 209 191	Number 3 3 3 2 2 3 2 1 1	Share (%) 16.5 16.2 14.3 13.4 8.4 8.1 3.8 3.5
Rank 1 2 3 4 5 6 6 6 9	Bookrunner parents HSBC JPMorgan Barclays Barclays Barclays Deutsche Banking Croup Deutsche Bank Deutsche Bank Bank of America Merrill Lynch Santander	Deal value, or set and	Number 2 2 2 2 2 3 3 2 2 2 2 2 2 2 2 1	Share (%) 13.3 12.9 10.3 10.3 6.6 6.6 6.6 6.6 6.4	Rank 1 2 3 4 5 6 7 8 9	Bookrunner parents JPMorgan Barclays Barclays Barclays Credit Suisse Credit Suisse Credit Suisse National Australia Bank Natixis Bank of America Merrill Lynch	Deal value 914 914 896 794 794 464 209 191 189	Number 3 3 3 2 2 3 2 1 1 1 1 1	Share (%) 16.5 16.2 14.3 13.4 8.4 8.1 3.8 3.5 3.4
Rank 1 2 3 4 5 6 6 9 10	Bookrunner parents HSBC JPMorgan Barclays Barclays Barclays Lloyds Banking Group Deutsche Bank Deutsche Bank Bank of America Merrill Lynch Santander UniCredit UBS and BNP Paribas	Deal value, or 100 733 733 735 494 494 367 367 367 352 448	Number 2 2 2 2 2 3 3 2 2 2 2 2 2 1 1 2	Share (%) 13.3 12.9 10.3 7.7 6.6 6.6 6.6 6.4 8.2	Rank 1 2 3 4 5 6 7 8 9 9 9	Bookrunner parents JPMorgan Barclays Barclays RBS Deutsche Bank Lloyds Banking Group Credit Suisse Credit Suisse Credit Suisse Bank of America Merrill Lynch Santander	Deal value (Proceeds, \$m) 914 914 896 794 794 448 209 191 189 189	Number 3 3 2 2 3 2 1 1 1 1 1	Share (%) 16.5 16.2 14.3 13.4 8.1 3.8 3.5 3.4 3.4
Rank 1 2 3 4 5 6 6 9 10	Bookrunner parents HSBC JPMorgan Barclays Barclays RBS Lloyds Banking Group Deutsche Bank Deutsche Bank Bank of America Bank of America Santander UniCredit UBS and BNP Paribas Subtotal	Deal value, 733 734 735 494 425 367 367 352 448 425	Number 2 2 2 2 3 3 2 2 2 2 1 2 2 2 2 0	Share (%) 13.3 12.9 10.3 7.7 6.6 6.6 6.6 6.4 8.2 8.7.5	Rank 1 2 3 4 5 6 7 8 9 9	Bookrunner parents JPMorgan Barclays RBS Deutsche Bank Lloyds Banking Group Credit Suisse Credit Suisse National Australia Bank Natixis Bank of America Merrill Lynch Santander	Deal value (Proceeds, \$m) 914 914 896 794 794 448 209 191 193 194 195 194 195 195 195 195 195 195 195 195 1	Number 3 3 2 3 2 3 2 1 1 1 1 1 1 2 0	Share (%) 16.5 16.2 14.3 13.4 8.1 3.8 3.5 3.4 3.4 3.4 3.5 3.4 3.4 90.9

2013 – Q2 2016 UK RMBS bond bookrunner ranking for top 10 Q1-2 2016

Performance

2.8 Figure 12 shows the performance of the UK RMBS market compared with the other largest player in the market, the Netherlands. Specifically, it shows the spreads of AAA retail mortgage-backed securities. The spread is the interest rate of an asset over and above a benchmark cost of borrowing. Spreads are inversely correlated to the price. An increase in spread reflects worsening market conditions as it means the investors are asking for higher compensation compared to a benchmark rate (a higher rate of interest) to take on risk. Conversely, a low spread reflects that investors are asking for less compensation to take on risk, which means they are more confident in the market so will pay more for it. Figure 12 shows that conditions for MBS dramatically worsened during the financial crisis, peaking at the end of 2008. They subsequently improved but remained high until 2012 with a high level of volatility. From early 2012, the spreads decreased further, reaching a new low since the crisis at the end of 2014. However, during the second half of 2015 market conditions slightly worsened again due to a decline in commodity prices and softer economic growth and currency devaluation in China.

2.9 Figure 13 on page 24 shows that other types of assets performed similarly in recent years – namely conditions were improving until the second half of 2015, at which point they started worsening again with the exception of the Dutch RMBS market. Riskier securities such as those backed by commercial property and buy-to-let mortgages worsened more than the RMBS market.

2.10 Figure 14 on page 25 shows that Granite securities also followed a similar pattern. Triple A and B tranches of Granite outperformed the market until mid-2014, followed by some increase in volatility until the end of the first quarter of 2015. In the second half of 2015 spreads worsened again due to the weaker overall market conditions.

Comparative performance of AAA retail mortgage-backed securities between 2007 and 2015

Market conditions for mortgage-backed securities dramatically worsened during the financial crisis but have recovered since

450 400 350 300 250 200 150 100 50 0 г Jan Jan Jan Jan Jan Jan Jan Jan Jan 2007 2008 2009 2010 2011 2012 2013 2014 2015

Netherlands RMBS

- UK RMBS

Note

1 The spreads for Euro-denominated securities are calculated against the three-month Euribor rate. Those for UK securities against the GBP three-month Libor rate.

Source: J.P. Morgan data; National Audit Office analysis

Basis points (0.01%) over 3 month Euribor

Comparative performance of securities

The performance weakened in the second half of 2015

Basis points (0.01%) over 3 month Euribor



- UK Buy-to-let (BTL)
- UK RMBS
- Netherlands RMBS

Note

1 The spreads for Euro-denominated securities are calculated against the three-month Euribor rate. Those for UK securities against the GBP three-month Libor rate.

Performance of Granite securities compared to the UK RMBS market

Granite securities slightly outperformed the market

Basis points (0.01%) over 3 month Euribor



Note

1 The Granite spreads are for the Euro-denominated tranches so they are calculated against the three-month Euribor rate. The UK RMBS spreads are calculated against the three-month GBP Libor rate.

Appendix One

Granite Securitisation

Introduction

1 'Granite Master Trust' is the SPV that Northern Rock set up in 2001 to issue 'Granite' securities from a pool of underlying residential mortgages. As a master trust, it was able to issue several batches of securities across the years. Prior to the nationalisation of Northern Rock, Granite would buy mortgages from Northern Rock using funds raised from issuing securities. The investors would then be paid using the interest and principal repayments on the mortgages held within Granite.

2 Northern Rock obtained regular payments from Granite through its seller's share. However, in November 2008, it failed to keep up its seller's share at the appropriate level, causing it to breach the 'non-asset trigger' (explained in paragraph 1.15). Consequently, Granite moved into 'pass-through' mode, meaning that Northern Rock Asset Management would not receive principal repayments until 2020.⁵ When Northern Rock was nationalised in 2008, the UK government inherited this seller's share. As at 30 June 2015, the seller's share percentage was 36.37%.

Overview of the Granite assets

3 In 2015, UKAR sold 270,808 loans totalling nearly £13.3 billion, which was reported on by the National Audit Office in *The £13 billion sale of former Northern Rock assets.*⁶ Of the value of the portfolio, 91% was made up of Granite mortgages from the Granite securitisation vehicle, as shown in **Figure 15**.

4 The performance of the Granite mortgages has improved since the end of 2012. They performed better on average than other NRAM (Northern Rock Asset Management) assets held by UKAR but worse than the market average calculated by the Council of Mortgage Lenders (CML).⁷ Typically, a mortgage is considered to be in arrears if the borrower is behind with repayments by three months or more. At as 30 June 2015, 2.94% of the mortgages were in arrears by three months or more. Figure 16 on page 28 shows the trend over time, including repossessions (0.05% of properties had been repossessed in the month of June).

⁵ Assuming the investors continue to be paid off at the current rate.

⁶ Comptroller and Auditor General, *The £13 billion sale of former Northern Rock assets*, Session 2016-17, HC 513, National Audit Office, July 2016.

⁷ The market average includes new lending, which NRAM, B&B and Granite are not allowed to do.

Figure 15 Composition of the £13.3 billion portfolio sold

Granite made up 60% of the number of loans in the portfolio and made up 90% of the loans by value

Breakdown of the number of loans in the portfolio 270,808 loans made up of:



Notes

- 1 Data from 30 June 2015.
- 2 The Granite mortgages are 'secured loans' because they are backed by an asset, namely residential property. Unsecured loans are not backed by any assets.

Source: National Audit Office analysis

Historic payment arrears of the market versus Granite

Payment arrears in Granite improved substantially over time

Percentage of loan more than 3 months in arrears



1 CML: Council of Mortgage Lenders. This includes new lending, which NRAM, B&B and Granite are not allowed to do.

2 The NRAM and B&B (Bradford & Bingley) loans are also owned by UKAR.

Source: UK Asset Resolution (UKAR) analysis

5 In line with the above, the average loan-to-value (LTV) of the loans has been decreasing since the end of 2012, as shown in **Figure 17**. As at 30 June 2015, the indexed weighted average LTV was 72.44%, which means that, on average, borrowers still owe 72.44% of the current value of their home. A lower LTV is better as it translates into a greater likelihood that the mortgages will be paid off – borrowers with less money to repay have a greater motivation to maintain their repayments, and even if their home has to be repossessed, the bank is more likely to recover the amount outstanding on the mortgage.

Figure 17

Granite's loan-to-value ratio

Since 2012 Granite's loan-to-value ration has improved





Notes

1 The data represents the position at the end of each month.

2 Indexed to take into account house price inflation. Each loan LTV is weighted by the relative size of the loan.

Source: National Audit Office analysis



Design and Production by NAO External Relations DP Ref: 11267-001