BNP Paribas Home Loan SFH Mortgage Covered Bond Program

Creditreform C Rating

Rating Object		Program ID	Cjfio
Country Issuer	France	Main collateral asset class	Mortgage
Main country of assets	France	Legal Framework	SFH legislation
Covered bonds type	Mortgage	Repayment method	Hard & Soft Bullet
Cut-off date Cover pool infomation:	31.12.2022	Publication date:	24.02.2023
Dating Overvious			

Rating Overview				
Rating Summary		Key Credit Risk Metrics		
Issuer	BNP Paribas Home Loan SFH	Metrics date	05.08.2022	
LT Issuer Rating	A-	Rating Case Default Rate	19.23%	
ST Issuer Rating	L2	Rating Case Recovery Rate	67.49%	
+Legal and regulatory framework analysis	+4 Notches	Expected Loss	6.25%	
+Liquidity and refinancing risk	+1 Notch	Rating Case Breakeven OC	14.51%	
= Rating after 1st uplift	AA+	Asset-sale discount stressed	59.03%	
Cover Pool & cash flow analysis	AA-	Yield Spread stressed	0.90%	
+ 2nd rating uplift	+/- 0 Notch			
Rating covered bond program / Outlook	AAA / Negative			

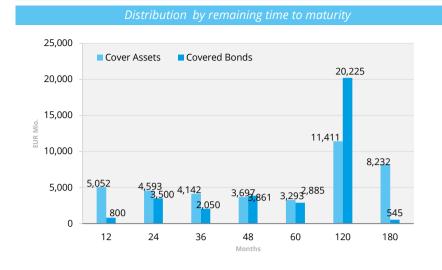
Program Characteristics		A	All currencies displayed in EUR		
General Information		Overcollateralization			
Bonds Nominal value	33,866.00 m.	Minimum	5.00%		
Cover pool value	41,335.02 m.	Committed	8.11%		
WAL maturity covered bonds	4.50 Years	Current	13.95%		
WAL maturity cover pool	7.90 Years				
Currency Participations		Interest Rate types			
Euro-denominated Assets	100.00%	Fixed Rate - Covered Bonds	100.00%		
Euro-denominated Bonds	100.00%	Floating Rate - Covered Bonds	0.00%		
Non Euro-denominated Assets	0.00%	Other Rate -Covered Bonds	0.00%		
Non Euro-denominated Bonds	0.00%	Fixed Rate -Cover Assets	97.94%		
		Floating Rate - Cover Assets	0.00%		
		Other Rate - Cover Assets	2.06%		

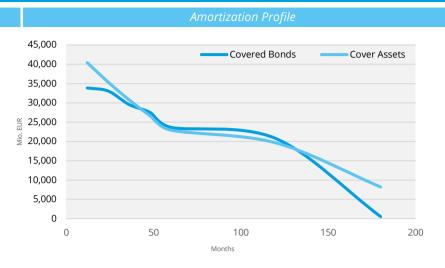
Cover Assets Composition Cover Pool value Residential Mortgage value 40,420.02 m. 41,335.02 m. Mortgage assets Commercial Mortgage value 0.00 m. 40,420.02 m. Public sector assets 0.00 m. Other Mortgage value 0.00 m. 334,425 Other assets Total number of exposures 0.00 m. Substitute assets 915.00 m. Number of Commercial Loans 0.00 of which Cash 0.00 m. Number of Residential Loans 334,425 of which Exposures to/ guaranteed by Supranational, 0.00 m. 0.00 Average Size Commercial Loans (000s) Sovereign, Agency (SSA) Average Size Residential Loans (000s) of which Exposures to central banks 0.00 m. 120.86 of which Exposures to credit institutions 915.00 m. 54.03 Weighted Average Seasoning (months) of which Other 0.00 m.

Arrears	% Residential Loans	% Commercial Loans
1-<30 days	0.00%	NR
30-<60 days	0.00%	NR
60-<90 days	0.00%	NR
90-<180 days	0.00%	NR
>= 180 days	0.00%	NR

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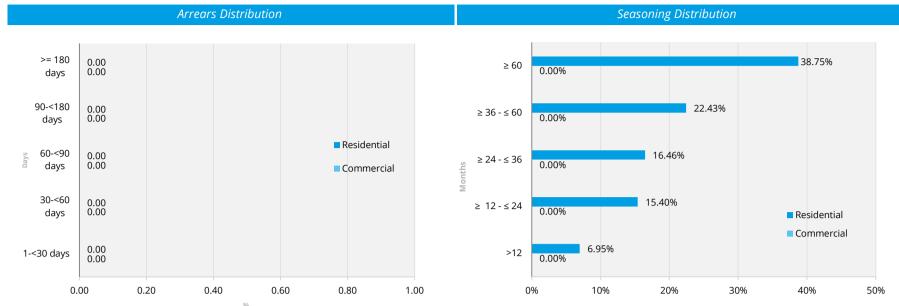




Loan Distribution by country (as % of total Mortgages)			Currency Distribution		
Country	% Residential Loans	% Commercial Loans	Currency	Covered Bonds	Cover Assets
Austria	0.0%	0.0%	EUR	33,866.00 m.	40,420.02 m.
Belgium	0.0%	0.0%	AUD	0.00 m.	0.00 m.
Bulgaria	0.0%	0.0%	BRL	0.00 m.	0.00 m.
Croatia	0.0%	0.0%	CAD	0.00 m.	0.00 m.
Cyprus	0.0%	0.0%	CHF	0.00 m.	0.00 m.
Czechia	0.0%	0.0%	CZK	0.00 m.	0.00 m.
Denmark	0.0%	0.0%	DKK	0.00 m.	0.00 m.
Estonia	0.0%	0.0%	GBP	0.00 m.	0.00 m.
Finland	0.0%	0.0%	HKD	0.00 m.	0.00 m.
France	100.0%	0.0%	ISK	0.00 m.	0.00 m.
Germany	0.0%	0.0%	JPY	0.00 m.	0.00 m.
Greece	0.0%	0.0%	KRW	0.00 m.	0.00 m.
Netherlands	0.0%	0.0%	NOK	0.00 m.	0.00 m.
Hungary	0.0%	0.0%	PLN	0.00 m.	0.00 m.
Ireland	0.0%	0.0%	SEK	0.00 m.	0.00 m.
Italy	0.0%	0.0%	SGD	0.00 m.	0.00 m.
Latvia	0.0%	0.0%	USD	0.00 m.	0.00 m.
Lithuania	0.0%	0.0%	Loan Distribution by	Regions (as % of total Mort	gages)
Luxembourg	0.0%	0.0%	Region	% Residential Loans	% Commercial Loans
Malta	0.0%	0.0%	Alsace	1.39%	NR
Poland	0.0%	0.0%	Aquitaine	5.53%	NR
Portugal	0.0%	0.0%	Auvergne	0.69%	NR
Romania	0.0%	0.0%	Basse Normandie	1.11%	NR
Slovakia	0.0%	0.0%	Bourgogne	1.00%	NR
Slovenia	0.0%	0.0%	Bretagne	3.08%	NR
Spain	0.0%	0.0%	Centre	1.82%	NR
Sweden	0.0%	0.0%	Champagne Ardennes	0.78%	NR
United Kingdom	0.0%	0.0%	Corse	0.48%	NR
Iceland	0.0%	0.0%	DOM - TOM	0.46%	NR
Liechtenstein	0.0%	0.0%	Franche-Comté	0.72%	NR
Norway	0.0%	0.0%	Haute Normandie	2.56%	NR
Switzerland	0.0%	0.0%	lle-de-France (Paris included)	39.12%	NR
Australia	0.0%	0.0%	Languedoc-Roussillon	3.61%	NR
Brazil	0.0%	0.0%	Limousin	0.26%	NR
Canada	0.0%	0.0%	Lorraine	1.62%	NR
Japan	0.0%	0.0%	Midi-Pyrénées	4.70%	NR
Korea	0.0%	0.0%	Nord-Pas-de-Calais	4.51%	NR
New Zealand	0.0%	0.0%	Pays de la Loire	4.33%	NR
Singapore	0.0%	0.0%	Picardie	2.56%	NR
US	0.0%	0.0%	Poitou-Charentes	1.26%	NR
Other	0.0%	0.0%	Provence-Alpes-Côte- d'Azur	9.08%	NR
© Creditreform Rating AG			Rhône-Alpes	9.36%	NR

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0.00 0	.20 0.40 0.6	0 0.80 1.00	0%	10% 20% 3	0% 40% 50%
		LTV Dis	stribution		
Uninde	exed LTV Distribution Comn	nercial Loans	Unin	dexed LTV Distribution Reside	ntial Loans
LTV	Nominal	% Loans	LTV	Nominal	% Loans
>0 - <=40 %	NR	NR	>0 - <=40 %	7,294.49	18.05%
>40 - <=50 %	NR	NR	>40 - <=50 %	3,788.26	9.37%
>50 - <=60 %	NR	NR	>50 - <=60 %	4,326.35	10.70%
>60 - <=70 %	NR	NR	>60 - <=70 %	4,798.58	11.87%
>70 - <=80 %	NR	NR	>70 - <=80 %	5,697.99	14.10%
>80 - <=90 %	NR	NR	>80 - <=90 %	7,242.86	17.92%
>90 - <=100 %	NR	NR	>90 - <=100 %	7,271.49	17.99%
>100%	NR	NR	>100%	0.00	0.00%
	Transaction Partic	es	Swap Counterparties		
Key Transaction parties	Name	LEI	Counterparty Name	LEI	Type of swap
Issuer	BNP Paribas Home Loan SFH	969500O7DJZNM0F0Z036	BNP Paribas SA	R0MUWSFPU8MPRO8K5P83	Currency Swap
sevicer	BNP Paribas SA	ROMUWSFPU8MPRO8K5P83			
Cash manager	BNP Paribas SA	ROMUWSFPU8MPRO8K5P83	Type of swap arrangements		
Account bank	BNP Paribas SA	R0MUWSFPU8MPRO8K5P83	Intra-group interest rate swaps		Yes
			Intra-group currency rate	swaps	Yes

BNP Paribas Home Loan SFH
Mortgage Covered Bond Program

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22.10.2029

17.03.2029

11.07.2027

Cjfio

Cjfio

Cjfio

22.04.2021

17.06.2020

11.10.2018

ISIN List of rated securities Coupon Rate (%) **Coupon Type** Issue date **Maturity date** Program ID FR0014004OP5 0.00 21.07.2029 Cjfio BNP Paribas Home Loan SFH Fix 21.07.2021 FR0012383883 0.74 19.12.2014 20.02.2023 Cjfio **BNP Paribas Home Loan SFH** Fix **BNP Paribas Home Loan SFH** FR0013238797 Fix 0.38 22.02.2017 22.07.2024 Cjfio BNP Paribas Home Loan SFH FR0013078755 Fix 0.95 22.12.2015 22.12.2025 Cjfio **BNP Paribas Home Loan SFH** FR0013420957 Fix 0.09 22.05.2019 22.05.2025 Cjfio 14.11.2024 BNP Paribas Home Loan SFH FR0012300754 Fix 0.88 14.11.2014 Cjfio 29.03.2036 BNP Paribas Home Loan SFH FR0013140142 Fix 1.59 29.03.2016 Cjfio **BNP Paribas Home Loan SFH** FR0014009UV9 1.30 20.04.2022 20.07.2026 Cjfio Fix BNP Paribas Home Loan SFH FR0013508231 Fix 0.35 16.04.2020 16.04.2029 Cjfio 20.01.2021 20.09.2028 Cjfio BNP Paribas Home Loan SFH FR0014001LW3 Fix 0.00 26.05.2015 Cjfio BNP Paribas Home Loan SFH FR0012735249 Fix 1.51 26.05.2035 14.12.2020 14.12.2027 Cjfio BNP Paribas Home Loan SFH FR0014001368 Fix 0.00 **BNP Paribas Home Loan SFH** Cjfio FR0012716371 Fix 0.38 07.05.2015 07.05.2025 27.01.2017 **BNP Paribas Home Loan SFH** FR0013234200 0.80 27.01.2027 Cjfio Fix FR0013371531 0.73 11.10.2018 11.05.2026 Cjfio **BNP Paribas Home Loan SFH** Fix **BNP Paribas Home Loan SFH** FR0012843324 2.45 08.07.2015 08.07.2027 Cjfio Fix 22.06.2016 **BNP Paribas Home Loan SFH** FR0013184280 Fix 0.23 22.05.2024 Cjfio 22.12.2015 **BNP Paribas Home Loan SFH** FR0013078748 Fix 0.67 22.12.2023 Cjfio 20.10.2027 FR0014009UW7 20.04.2022 Cjfio **BNP Paribas Home Loan SFH** Fix 1.40 **BNP Paribas Home Loan SFH** FR0013469368 0.07 16.12.2019 16.12.2028 Cjfio Fix **BNP Paribas Home Loan SFH** FR0011137611 Fix 3.75 27.10.2011 27.10.2023 Cjfio 20.04.2028 **BNP Paribas Home Loan SFH** FR0013508033 Fix 0.29 20.04.2020 Cjfio 27.01.2017 **BNP Paribas Home Loan SFH** FR0013234192 Fix 0.34 15.02.2023 Cjfio

0.00

0.00

0.89

Fix

Fix

Fix

BNP Paribas Home Loan SFH

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BNP Paribas Home Loan SFH

FR00140032I7

FR0013518644

FR0013371499

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Data Definitions

The data is presented with a cut-off date. Following the clarification regarding the source of information:

Issuer: Issuer source of information includes all available public information, i.e. Investor Reports, Harmonised Transparency Templates "HTT", National Transparency Templates "NTT", Prospectus etc.

Information not applicable for the jurisdiction and not relevant for the issuer and/or CB program at the present time will be labeled as "NR" (Not Relevant) Information not disclosed by the issuer will be labeled as "ND" (Not Disclosed)

Field Name	Source	Definition
Program ID	CRA	Unique CRA internal identification for a rating
Covered bonds type	Issuer	The covered bonds type (public sector covered bonds or mortgage covered bonds)
Country Issuer	Issuer	The issuer country
Main country of assets	Issuer	The country with the maximum participation of cover assets
Main collateral asset class	Issuer	The main collateral asset class of the covered bonds
Legal framework	CRA	The set of legislative and regulatory rules of the respective jurisdiction that regulates the covered bonds (CB) program
Bonds Nominal value	Issuer	The total amount of outstanding covered bonds as of cut-off date expressed in millions
Cover pool value	Issuer	Aggregate value of all cover assets in the cover pool (incl. Substitute assets) as of cut-off date expressed in millions
WAL maturity covered bonds	Issuer	The weighted average remaining maturity of all outstanding covered bonds in years
WaL maturity cover pool	Issuer	The weighted average remaining maturity of all outstanding covered assets in years
Repayment method	lssuer	Hard Bullet: Covered bonds are repaid on the maturity date which cannot be extended Soft Bullet: The maturity date of the covered bonds can be extended by a fixed period Conditional pass-through (CPT): Covered bonds with a scheduled maturity date, and an extension mechanism defined by certain conditions Hard & Soft Bullet: The covered bond program with a combination of hard bullet and soft bullet maturity structures
Overcollateralization (OC) - Current	CRA	The proportion of cover assets that exceeds the current outstanding covered bonds, calculated as ([Cover pool value]/[outstanding covered bonds]-1)*100
Overcollateralization (OC) - Minimum	CRA	The minimum OC level that the issuer must maintain according to the respective CB legislation
Overcollateralization (OC) - Commited	CRA	The minimum OC level that the issuer has committed to maintain, as published in its public available reports. If no level of committed OC is reported, the field shows "NR" (Not Relevant)
Fixed Rate - Covered Bonds	Issuer	Share of covered bonds paying a fixed rate of interest
Floating Rate - Covered Bonds	Issuer	Share of covered bonds paying a floating rate of interest
Other Rate -Covered Bonds	Issuer	Share of covered bonds paying an other rate of interest
Fixed Rate -Cover Assets	Issuer	Share of cover assets yielding a fixed rate of interest
Floating Rate - Cover Assets	Issuer	Share of cover assets yielding a floating rate of interest
Other Rate - Cover Assets	Issuer	Share of cover assets yielding an other rate of interest
Euro-denominated Assets	Issuer	Share of cover assets denominated in Euros, in percentage of total cover pool value
Euro-denominated Bonds	Issuer	Share of covered bonds denominated in Euros, in percentage of bonds nominal value
Non Euro-denominated Assets	Issuer	Share of cover assets denominated in currencies other than Euros, in percentage of total cover pool value
Non Euro-denominated Bonds	Issuer	Share of covered bonds denominated in currencies other than Euros, in percentage of bonds nominal value
LT Issuer Rating	CRA	Long-term ratings assess the default risks for each category of a bank's financial instruments with a residual term-to-maturity of more than one year
ST Issuer Rating	CRA	Short-term ratings assess the default risks for each category of a bank's financial instruments with a residual term-to-maturity of less than one year
Legal and regulatory framework analysis	CRA	A qualitative assessment of legislative and regulatory rules of the respective covered bonds program
Liquidity and refinancing risk	CRA	A qualitative assessment of regulatory requirements for the liquidity and refinancing risk of the respective covered bonds program
First rating uplift	CRA	The rating after adding up the notches from Legal and regulatory framework analysis and Liquidity and refinancing risk with LT Issuer rating
Cover pool and cash flow analysis	CRA	The quantitative assessment of the cover assets and covered bonds at different rating-level stressed scenarios
Second rating upflift	CRA	The rating after adding up the notches from cash-flow analysis with 1st rating uplift (only effective if the rating from cash-flow analysis is higher than the 1st rating uplift)
Rating covered bond program / Outlook © Creditreform Rating AG	CRA	Final rating and outlook of the covered bond program

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Field Name	Source	Definition
Metrics date	CRA	The date on which CRA assigned the initial / follow-up rating of the covered bond program, as well as the propreitary metrics to determine the rating of the covered bonds program
Rating Case Default Rate (RDR)	CRA	Stressed default rate of the cover assets represented by the base case stressed scenario
Rating Case Recovery Rate (RRR)	CRA	Stressed recovery rate of the defaulted assets represented by the base case stressed scenario
Expected Loss	CRA	Stressed loss rate of the cover assets represented by the base case stressed scenario. The expected loss rate has been calculated as [RDR*(1-RRR)] [%]
Rating Case Breakeven OC	CRA	The required stressed OC level compatible with the base case rating
Asset-sale discount stressed	CRA	Stressed Asset value haircuts of the main collateral asset class represented by the base case stressed scenario
Yield Spread stressed	CRA	Stressed positive yield spreads between covered bonds and cover assets represented by the base case stressed scenario
Average Seasoning	Issuer	Average length of the loans from the origination date to the cut-off date in months
Loan Size	Issuer	Average size of the loans (i.e. Total value of cover assets / Number of loans)
Mortgage assets	Issuer	Outstanding mortgage assets in the cover pool expressed in millions
Public sector assets	Issuer	Outstanding public sector assets in the cover pool expressed in millions
Other assets	Issuer	Outstanding other assets in the cover pool expressed in millions
Substitute assets	Issuer	Outstanding substitute assets in the cover pool expressed in millions
Residential mortgage value	Issuer	Outstanding residential mortgage loans in the cover pool expressed in millions
Commercial mortgage value	Issuer	Outstanding commercial mortgage loans in the cover pool expressed in millions
Other mortgage value	Issuer	Outstanding other mortgage loans in the cover pool expressed in millions
Loans (Public Sector)	Issuer	Outstanding loans among public sector assets expressed in millions
Bonds (Public Sector)	Issuer	Outstanding bonds among public sector assets expressed in millions
Other (Public sector)	Issuer	Outstanding other loans among public sector assets expressed in millions
Sovereigns (m.)	Issuer	Outstanding Sovereigns loans among public sector assets expressed in millions
Regional/ federal authorities (m.)	Issuer	Outstanding regional governments loans among public sector assets expressed in millions
Local/ municipal authorities (m.)	Issuer	Outstanding local governments loans among public sector assets expressed in millions
Others (m.)	Issuer	Outstanding loans of other debtors among public sector assets expressed in millions
of which Cash	Issuer	Nominal value of total cash in the substitute asssets expressed in millions
of which Exposures to/ guaranteed by Supranational, Sovereign, Agency (SSA)	Issuer	Nominal value of the exposures to/ guaranteed by Supranational, Sovereign, Agency (SSA) in the substitute asssets expressed in millions
of which Exposures to central banks	Issuer	Nominal value of the exposures to central banks in the substitute asssets expressed in millions
of which Exposures to credit institutions	Issuer	Nominal value of the exposures to credit institutions in the substitute asssets expressed in millions
of which Other	Issuer	Nominal value of the other type of exposures in the substitute asssets expressed in millions
Total number of exposures	Issuer	Total number of public sector exposures or total number of mortgage loans in the cover assets
Arrears % of public sector assets	Issuer	Percentage of public sector loans with arrears
Arrears % of residential loans	Issuer	Percentage of residential mortgage loans with arrears
Arrears % of commercial loans	Issuer	Percentage of commercial mortgage loans with arrears
1-<30 days	Issuer	Percentage of loans with arrears of less than 30 days
30-<60 days	Issuer	Percentage of loans with arrears between 30 and 60 days
60-<90 days	Issuer	Percentage of loans with arrears between 60 and 90 days
90-<180 days	Issuer	Percentage of loans with arrears between 90 and 180 days
>= 180 days	Issuer	Percentage of loans with arrears equal or above 180 days
Distribution by remaining time to maturity	CRA	The remaining residual life of cover pool assets and the remaining maturity of covered bonds in months

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Field Name	Source	Definition
LTV	Issuer	The loan-to-value (LTV) is the ratio of a loan to the value of the property securing the loan
Unindexed LTV Distribution Commercial Loans	Issuer	Unindexed LTV distribution of commercial loans represented by finite continuous distributions of intervals expressed in volume and percentage of total commercial loans
Indexed LTV Distribution Commercial Loans	Issuer	Indexed LTV distribution of commercial loans represented by finite continuous distributions of intervals expressed in volume and percentage of total commercial loans
Unindexed LTV Distribution Residential Loans	Issuer	Unindexed LTV distribution of residential loans represented by finite continuous distributions of intervals expressed in volume and percentage of total residential loans
Indexed LTV Distribution Residential Loans	Issuer	Indexed LTV distribution of residential loans represented by finite continuous distributions of intervals expressed in volume and percentage of total residential loans
Loan distribution by country	Issuer	The share of cover assets across countries represented by the respective asset classes
Loan distribution by region	Issuer	The regional distribution of cover assets of the main country of collateral asset class in percentage
Currency distribution	Issuer	Distribution of currencies of the covered bonds and cover assets expressed in millions
Arrears Distribution	Issuer	The distribution of arrears of the cover assets with respect to each asset class
Seasoning Distribution	Issuer	The distribution of seasoning of the cover assets with respect to each asset class
Amortization Profile	CRA	The maturity structure of the cover assets and liabilities
% Residential Loans	Issuer	Outstanding value of loans that are secured by the residential property expressed as % of total outstanding loans in the cover pool
% Commercial Loans	Issuer	Outstanding value of loans that are secured by the commercial property expressed as % of total outstanding loans in the cover pool
LEI	CRA	Legal Entity Identifier (LEI) enables unique identification of legal entities in financial transactions
Transaction parties	Issuer	Key transaction parties of the covered bond program
Fixed Coupon	Issuer	All assets and liabilities in the covered bond program that yield a fixed interest rate
Floating Coupon	Issuer	All assets and liabilities in the covered bond program that have variable interest rates
EIEURxM	Reuters	Euro x Month EURIBOR
EURSWExY	Reuters	Euro x Year Interest Rate Swap Fixing

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