

8050 Zurich, 31 January 2022, 1705, MM

#### Pfandbriefbank Pool

31 December 2021, semi-annual publication (since June 2012), unaudited

#### 1 Pfandbriefbank

#### 1.1 Contact address

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1.2 Rating

Rating agency Moody's Investors Service Ltd, London

Issuance rating Aaa (since 2002, last issuer rating report dated 19 July 2018, ratings per ISIN are

published shortly after issuance)

1.3 Business model

Pfandbriefbank - Founded 1930, incorporated 1931

- Based on Pfandbrief act, which came into effect in 1930

- Special institute with limited scope (issuance of Swiss Pfandbriefe, loans to member banks and investment of own funds)

- No currency risk, no maturity mismatch, no interest rate risk

- Swiss Federal Council authorises bylaws and valuation regulations and nominates one member of the board of directors

- Swiss Financial Market Supervisory Authority (FINMA) supervises Pfandbriefbank

and its member banks

- Regulated by law (not only a private agreement) Cover pool

- Only first-class mortgages in Swiss francs (CHF) on properties located in Switzerland are eligible

- Cover value of each member bank's cover pool must be at least 108 % of the bank's liabilities to Pfandbriefbank

- Loan to value 42 % (by law limited at max. 66 2/3 % for residential properties or lower for other property types)

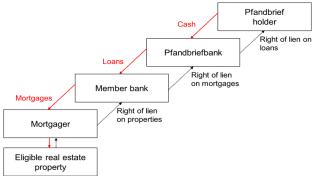
- 100 % of the underlying properties are residential

- Pfandbriefbank supervises eligibility and overcollateralisation daily

- Member bank legally obliged to increase coverage in case of insufficient overcollateralisation and to replace impaired or non-performing loans
- Approximately 14 % of Swiss mortgages refinanced through Swiss Pfandbriefe
- Pfandbriefbank values the cover value of a mortgage independently
- Mortgages stay on balance sheet of member bank
- Unique historical track: No loss since 1931

Investors' fourfold security

1. The capital of Pfandbriefbank, 2. the capital of the member banks, 3. the capital of the proprietors of the real estate property and 4. the market value of the real estate properties.



#### 1.4 Planned events

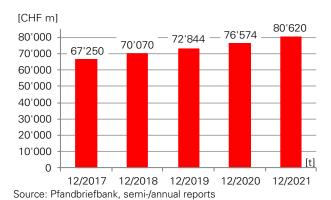
Issuances 01/02, 01/03, 29/03, 26/04, 24/05, 21/06, 12/07, 09/08/2022

19/05/2022 General meeting

#### 2 Swiss Economics Source, units 12/2020 12/2019 12/2018 2.1 General 12/2021 Issuer Rating Switzerland Moody's Aaa Aaa Aaa Aaa n/a (+3.5 % y/e forecast) Gross domestic product (GDP) SECO, CHF bn 706 727 719 Unemployment rate 19 SECO, Ø % 3.0 3.1 2.3 2.5 Eidgenossen (Gov), 10Y rate SNB, % -0.127-0.525-0.456-0.1542.2 Mortgage market Mortgage volume of banks SNB, CHF bn (10/2021) 1'112 1'081 1'053 1'022 Swiss Pfandbriefe 1 CHF bn 151 142 131 125 SWX IAZI Price Indices Private Real Estate CH0030532342 205 192 187 184 Investment Real Estate CH0030532391 203 192 192 183

#### 3 Market

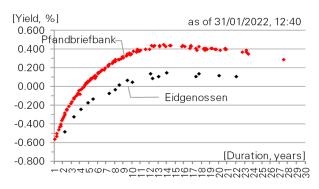
#### 3.1 Pfandbriefbank - Outstanding Pfandbriefe



In 2021 Pfandbriefbank issued Swiss Pfandbriefe of CHF 9'963 m. CHF 5'917 m matured. Net growth amounts to CHF 4'046 m.

The three joint lead banks responsible for our primary market issuances are Credit Suisse AG (in charge), UBS AG and Raiffeisen Schweiz Genossenschaft.

#### 3.2 Pfandbriefbank - Yield per ISIN



Pfandbriefbank's yield curve has a high density and supports portfolio duration adjustments in primary or secondary market.

Source: SIX Swiss Exchange AG

#### 3.3 Pfandbriefbank - Traded nominal volumes on secondary market

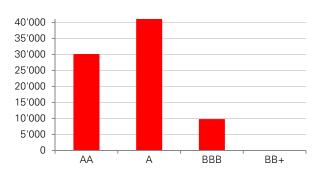


Source: SIX Swiss Exchange AG

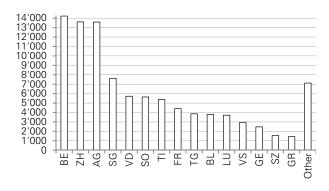
The joint lead banks are requested to organise the market making in the secondary market at SIX Swiss Exchange AG. For the last 12 months average monthly nominal turnover exceeded CHF 1'400 m (min/median/max: CHF 623 m/CHF 1'355 m/CHF 2'218 m).

### 4 Pool - Summary

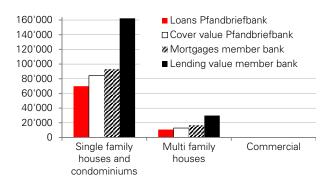
#### 4.1 Loans to member banks (CHF m)



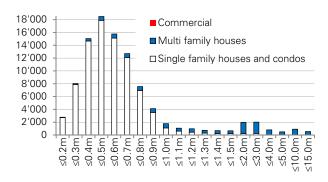
#### 4.2 Cover value by region (CHF m, only CH eligible)



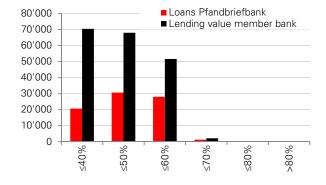
#### 4.3 Property type (CHF m)



4.4 Cover value by size (CHF m)



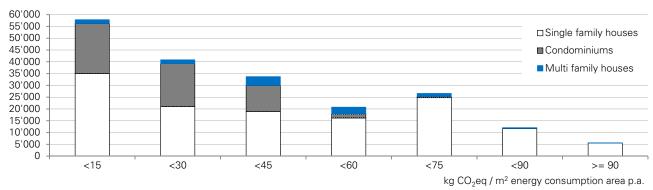
#### 4.5 Loan LTV (CHF m) <sup>2</sup>



4.6 Mortgage LTV member bank (CHF m) <sup>3</sup>



#### 4.7 Distribution of CO<sub>2</sub> emissions (number of properties)



Source: IAZI CO<sub>2</sub> model; data as of 25 march 2021 supplemented with data from the Federal Register of Buildings and Dwellings

# 5 Pool - Details

Criteria	Pfandbriefbank			Member bank				Cover object	
for eligible cover pool assets	Loans 4	Cover value	e <sup>5</sup>	Mortgage	es <sup>6</sup>	Lending value 7			
	CHF m %	CHF m	%	CHF m	%	CHF m	%	Number	%

# 5.1 Loans to member banks $^{\rm 8}$

Rating <sup>9</sup>											
AA		29'998	37	35'843	37	40'887	37	70'462	37	69'796	35
А		40'957	51	49'056	51	54'775	50	96'326	50	108'303	54
BBB		9'665	12	12'212	13	14'116	13	25'374	13	23'667	12
BB+ <sup>10</sup>		0	0	0	0	0	0	0	0	0	0
Total <sup>11</sup>		80'620	100	97'111	100	109'778	100	192'161	100	201'766	100
Loan size total	CHF m										
232 bank(s)	≤ 200	21'174	26	25'685	26	28'979	26	49'882	26	51'209	25
34	≤ 400	9'060	11	10'740	11	12'211	11	21'597	11	22'645	11
7	≤ 600	3'580	4	4'835	5	5'569	5	9'304	5	9'788	5
3	≤ 800	2'013	2	2'438	3	2'798	3	4'880	3	4'529	2
0	≤ 1′000	0	0	0	0	0	0	0	0	0	0
10	> 1'000	44'793	56	53'413	55	60'220	55	106'499	55	113'595	56
Total		80'620	100	97'111	100	109'778	100	192'161	100	201'766	100

### **5.2 Region** (only Switzerland eligible)

BE	11'960	15	14'226	15	16'128	15	27'808	14	32'256	16
AG	11'260	14	13'590	14	14'959	14	25'601	13	30'662	15
ZH	11'217	14	13'608	14	15'530	14	29'390	15	23'543	12
SG	6'412	8	7'625	8	8'538	8	14'848	8	16'403	8
SO	4'844	6	5'645	6	6'389	6	10'478	5	12'893	6
VD	4'709	6	5'725	6	6'578	6	11'510	6	10'563	5
TI	4'090	5	5'386	6	6'125	6	10'786	6	11'247	6
FR	3'758	5	4'402	5	4'884	4	8'050	4	9'741	5
TG	3'240	4	3'856	4	4'320	4	7'300	4	7'912	4
BL	3'123	4	3'794	4	4'240	4	7'571	4	7'328	4
LU	3'119	4	3'712	4	4'216	4	7'253	4	7'255	4
VS	2'400	3	2'939	3	3'331	3	5'734	3	7'741	4
GE	2'054	3	2'477	3	2'979	3	5'570	3	3'708	2
SZ	1'320	2	1'564	2	1'777	2	3'350	2	2'779	1
GR	1'150	1	1'442	1	1'635	1	2'836	1	3'195	2
Other cantons, each < 1.4 %	5'963	7	7'121	7	8'151	7	14'076	7	14'540	7
Total	80'620	100	97'111	100	109'778	100	192'161	100	201'766	100

# **5.3 Property type** <sup>12, 13, 14</sup>

Overview										
Residential										
Single family houses and condominiums <sup>15</sup>	69'827	87	84'257	87	93'138	85	162'317	84	190'079	94
Multi family houses	10'793	13	12'854	13	16'641	15	29'844	16	11'687	6
Total residential	80'620	100	97'111	100	109'778	100	192'161	100	201'766	100
Commercial	0	0	0	0	0	0	0	0	0	0
Total	80'620	100	97'111	100	109'778	100	192'161	100	201'766	100

Criteria	Pfandbriefb	ank	M	Cover objects				
for eligible cover pool assets	Cover valu	ie 2	Mortgage	Mortgages <sup>6</sup>		lue 7	,	
	CHF m	%	CHF m	%	CHF m	%	Number	%

# **5.4 Property type by size** 12, 13, 14

Residential: Single family houses and condominiums		
Cover value Pfandbriefbank ≤ 200'000   2'727   3   2'880   3   9'995   5	17'563	9
≤ 300'000 7'884 8 8'285 8 17'676 9	29'845	15
≤ 400'000   14'670   15   15'686   14   28'206   15	40'971	20
≤ 500'000   17'886   18   19'349   18   32'219   17	39'391	20
≤ 600'000   15'123   16   16'477   15   26'290   14	27'433	14
≤ 700'000   12'070   12   13'515   12   20'944   11	18'488	9
≤ 800'000   6'950 7   8'160 7   12'673 7	9'308	5
≤ 900'000 3'524 4 4'288 4 6'653 3	4'156	2
≤ 1'000'000 1'103 1 1'396 1 2'380 1	1'151	1
≤ 1'100'000 603 1 790 1 1'271 1	570	0
≤ 1'200'000	378	0
≤ 1'300'000 303 0 382 0 646 0	242	0
≤ 1'400'000   238 0   309 0   503 0	176	0
≤ 1'500'000	165	0
≤ 2'000'000	137	0
≤ 2 000 000   240 0 283 0 313 0 ≤ 2'500'000   255 0 433 0 840 0	105	0
≤ 2 300 000   255 0 455 0 840 0   ≤ 3'000'000 0 0 0 0 0 0 0	0	0
Total 84'257 87 93'138 85 162'317 84	190'079	94
Average as per cover object 0.443 0.490 0.854	130 073	34
Residential: Multi family houses		
Cover value Pfandbriefbank ≤ 1'000'000   4'315   4 5'397   5 10'708   6	7'565	4
≤ 2'000'000   4'032   4   5'092   5   8'679   5	2'876	1
≤ 3'000'000   1'760   2   2'273   2   3'827   2	728	0
≤ 4'000'000   801   1   1'038   1   1'766   1	233	0
≤ 5'000'000   496   1   664   1   1'103   1	112	0
≤ 10'000'000 912 1 1'262 1 2'169 1	131	0
≤ 15'000'000   539   1   915   1   1'592   1	42	0
≤ 20'000'000	0	0
≤ 25'000'000	0	0
Total 12'854 13 16'641 15 29'844 16	11'687	6
Average as per cover object 1.100 1.424 2.554		
Commercial		
Cover value Pfandbriefbank $\leq 1'000'000$ 0 0 0 0 0	0	0
≤ 2'000'000	0	0
≤ 3'000'000	0	0
≤ 4'000'000   0 0 0 0 0 0	0	0
≤ 4'000'000	0	0 0
≤ 5'000'000 0 0 0 0 0 0 0	0	0
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Criteria	Pfandbriefbank			Member bank				Cover objects	
for eligible cover pool assets	Loans 4	Cover valu	ıe ⁵	Mortgage	Mortgages <sup>6</sup>		lue 7		
	CHF m %	CHF m	%	CHF m	%	CHF m	%	Number	%

## 5.5 Loan to lending value (loan LTV) <sup>2</sup>

> 0 % to ≤ 40 %	20'655	26	26'098	27	30'785	28	70'419	37	60'301	30
> 40 % to ≤ 50 %	30'652	38	36'803	38	42'009	38	67'970	35	68'568	34
> 50 % to ≤ 60 %	28'018	35	32'787	34	35'428	32	51'635	27	69'758	35
> 60 % to ≤ 70 %	1'295	2	1'423	1	1'557	1	2'137	1	3'139	2
> 70 % to ≤ 80 %	0	0	0	0	0	0	0	0	0	0
> 80 %	0	0	0	0	0	0	0	0	0	0
Total	80'620 1	00	97'111	100	109'778	100	192'161	100	201'766	100
Overcollateralisation	1	00		120		136		238		
LTV <sup>16</sup>		42		51		57		100		

# 5.6 Cover value to lending value (cover value LTV) $^{\rm 17}$

$> 0 \% \text{ to} \le 40 \%$	8'765	11	10'584	11	12'548	11	36'994	19	31'393	16
> 40 % to ≤ 50 %	17'989	22	21'781	22	26'090	24	46'974	24	38'096	19
> 50 % to ≤ 60 %	27'196	34	32'744	34	36'736	33	58'658	31	62'311	31
> 60 % to ≤ 70 %	26'670	33	32'003	33	34'404	31	49'536	26	69'966	35
> 70 % to ≤ 80 %	0	0	0	0	0	0	0	0	0	0
> 80 %	0	0	0	0	0	0	0	0	0	0
Total	80'620	100	97'111	100	109'778	100	192'161	100	201'766	100

### 5.7 Mortgage to lending value (mortgage LTV member bank) $^{\scriptscriptstyle 3}$

$> 0 \% \text{ to } \le 40 \%$	6'996	9	8'442	9	8'525	8	30'163	16	28'504	14
$> 40 \% \text{ to } \leq 50 \%$	9'168	11	11'074	11	11'430	10	25'041	13	25'346	13
> 50 % to ≤ 60 %	16'005	20	19'299	20	20'389	19	36'762	19	38'922	19
> 60 % to ≤ 70 %	27'999	35	33'655	35	37'871	34	58'272	30	63'317	31
> 70 % to ≤ 80 %	20'451	25	24'639	25	31'561	29	41'919	22	45'675	23
> 80 % <sup>18</sup>	2	0	2	0	4	0	4	0	2	0
Total	80'620	100	97'111	100	109'778	100	192'161	100	201'766	100

## 6 Maturity structure

Contrac	ctual Cashflows (unaudited M	IS view)		Maturity	Buckets (in	years)	
31/12/20	021			> 1y and	> 5y and	> 10y and	
CHF m	(A/L denominated in CHF)	Total	≤ 1y	≤ 5y	≤ 10y	≤ 15y	> 15y
Assets (	(stylised)	82'791					
thereof	Loans to member banks	80'620	6'005	22'885	26'530	12'082	13'118
	Bonds	1'423	46	461	692	224	0
	- thereof SNB GC Basket	1'399					
	- thereof pledged	0					
	Share capital not paid in	560	560				
Liabilitie	es (stylised)	-82'791					
thereof	Swiss Pfandbriefe	-80'620	-6'005	-22'885	-26'530	-12'082	-13'118
	Equity	-1'871					
Net tota	ıl		606	461	692	224	0

- <sup>1</sup> Including private placements as per annual reports of Pfandbrief institutes
- <sup>2</sup> Ratio: Loan Pfandbriefbank divided by lending value member bank
- <sup>3</sup> Ratio: Mortgage member bank divided by lending value member bank
- <sup>4</sup> Loans from Pfandbriefbank to member banks at nominal value
- <sup>5</sup> Eligibility and value of cover objects determined by Pfandbriefbank independently from member bank based on Pfandbrief act and valuation regulations.
- <sup>6</sup> Mortgage nominal value in the balance sheet of member bank
- <sup>7</sup> Lending value of cover objects set up by member bank to determine maximum mortgage
- <sup>8</sup> There are 286 banks with outstanding loans from Pfandbriefbank.
- <sup>9</sup> Rating by 1. Moody's, 2. S&P, 3. Fitch, 4. independent third party bank rating. According to Moody's bank rating methodology dated 16 March 2015 the Moody's bank deposit rating is selected before Moody's senior unsecured rating, where available.
- 10 BB+ rated member banks must have 120 % collateralisation. Member banks with rating better than BB+ must have 108 % collateralisation.
- <sup>11</sup> Loans of CHF 80'620 m are covered by the cover value determined by Pfandbriefbank of CHF 97'111 m for eligible mortgages of CHF 109'778 m with a lending value set up by member banks of CHF 192'161 m (201'766 objects).
- <sup>12</sup> The maximum cover value Pfandbriefbank for single family houses is CHF 2.5 m, for condominiums CHF 1.5 m, for multi family houses and commercial properties CHF 15 m.
- <sup>13</sup> Single family houses and condominiums larger than CHF 1.5 m, multi family houses larger than CHF 3 m and commercial properties larger than CHF 1.2 m are reviewed by the cover pool committee.
- Selected single family houses and condominiums, multi family houses larger than CHF 5 m (CHF 3 m, if older than 20 years) and commercial properties larger than CHF 2.5 m (CHF 2 m, if older than 20 years) are visited on-site by the cover pool committee.
- $^{15}$  Properties with occupancy type 'vacation' are immaterial (loans of CHF 138 m or 0.2 % of total).
- $^{16}$  If loans are 100, the lending value of member banks amounts to 238. In other words: the overall loan to value is 42 %.
- <sup>17</sup> Ratio: Cover value Pfandbriefbank divided by lending value member bank
- <sup>18</sup> Mortgages with mortgage LTV member bank > 80 % are considered as ETPs (exception to policy). ETPs can be covered by additional collateral, which is not pledged to Pfandbriefbank, but to member bank only.
- <sup>19</sup> The lost working hours from paid short-time work (including from COVID-19 measures) rose from 0.2 million hours in December 2019 to 2.2 million hours in October 2021 (last available indicator; the cumulative total since November 2020 is approximately 181 million hours). Short-time workers are not considered unemployed.

#### 7 Investment Risks

For consulting refer to your Swiss bank, which will evaluate your individual risk profile and advise you according to your needs. They also will inform you directly about restrictions.

### 8 Disclaimer

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