

**\$792,136,056**



**Fannie Mae®**

**Guaranteed REMIC Pass-Through Certificates  
Fannie Mae REMIC Trust 2019-9**

**The Certificates**

We, the Federal National Mortgage Association (Fannie Mae), will issue the classes of certificates listed in the chart on this cover.

**Payments to Certificateholders**

We will make monthly payments on the certificates. You, the investor, will receive

- interest accrued on the balance of your certificate (except in the case of the accrual classes), and
- principal to the extent available for payment on your class.

We will pay principal at rates that may vary from time to time. We may not pay principal to certain classes for long periods of time.

**The Fannie Mae Guaranty**

We will guarantee that required payments of principal and interest on the certificates are available for distribution to investors on time.

**The Trust and its Assets**

The trust will own

- Fannie Mae MBS backed by first lien, single-family fixed-rate loans,
- underlying REMIC and RCR certificates backed by Fannie Mae MBS, and
- Fannie Mae MBS backed by first lien, single-family adjustable-rate loans.

The mortgage loans backing the underlying REMIC and RCR certificates are first lien, single family, fixed-rate loans.

Class	Group	Original Class Balance	Principal Type(1)	Interest Rate	Interest Type(1)	CUSIP Number	Final Distribution Date
LF . . . .	1	\$ 67,238,023	PT	(2)	FLT	3136B32U3	March 2049
LS . . . .	1	67,238,023(3)	NTL	(2)	INV/IO	3136B32V1	March 2049
LA . . . .	1	13,447,605	PT	3.5%	FIX	3136B32W9	March 2049
EA . . . .	2	50,000,000	SEQ/AD	3.0	FIX	3136B32X7	July 2047
EZ . . . .	2	2,498,611	SEQ	3.0	FIX/Z	3136B32Y5	March 2049
AU(4) . .	3	575,000	SC/SEQ/AD	3.5	FIX	3136B32Z2	September 2048
AM(4) . .	3	38,716,000	SC/SEQ/AD	3.5	FIX	3136B33A6	September 2048
ZA(4) . .	3	17,466,000	SC/SEQ	3.5	FIX/Z	3136B33B4	September 2048
DA . . . .	4	50,000,000	SEQ	4.0	FIX	3136B33C2	April 2044
DV(4) . .	4	4,500,000	SEQ/AD	4.0	FIX	3136B33D0	July 2028
VD(4) . .	4	9,000,000	SEQ/AD	4.0	FIX	3136B33E8	August 2040
DZ(4) . .	4	10,000,000	SEQ	4.0	FIX/Z	3136B33F5	March 2049
K(4) . . .	5	6,847,000	SEQ	4.0	FIX	3136B33G3	May 2027
KC . . . .	5	29,584,000	SEQ	4.0	FIX	3136B33H1	February 2043
VK(4) . .	5	8,054,000	SEQ/AD	4.0	FIX	3136B33J7	May 2030
KZ . . . .	5	14,428,578	SEQ	4.0	FIX/Z	3136B33K4	March 2049
FA . . . .	6	82,543,545	PT	(5)	FLT/AFC	3136B33L2	March 2049
SA . . . .	6	82,543,545(3)	NTL	(6)	WAC/IO	3136B33M0	March 2049
IQ . . . .	7	10,107,956(3)	NTL	4.5	FIX/IO	3136B33N8	March 2049
QA(4) . .	7	33,500,000	SEQ	3.5	FIX	3136B33P3	June 2045
VQ . . . .	7	2,885,000	SEQ/AD	3.5	FIX	3136B33Q1	June 2030
QV . . . .	7	3,077,000	SEQ/AD	3.5	FIX	3136B33R9	December 2038
QZ . . . .	7	6,023,803	SEQ	3.5	FIX/Z	3136B33S7	March 2049

(Table continued on next page)

If you own certificates of certain classes, you can exchange them for certificates of the corresponding RCR classes to be delivered at the time of exchange. The AY, AT, DY, QB, QI, KD, MY, MC, MA, MD, ME, MG, SK and CL Classes are the RCR classes. For a more detailed description of the RCR classes, see Schedule 1 attached to this prospectus supplement and "Description of the Certificates-Combination and Recombination-RCR Certificates" in the REMIC prospectus.

The dealer will offer the certificates from time to time in negotiated transactions at varying prices. We expect the settlement date to be February 28, 2019.

**Carefully consider the risk factors starting on page S-9 of this prospectus supplement and starting on page 7 of the REMIC prospectus. Unless you understand and are able to tolerate these risks, you should not invest in the certificates.**

You should read the REMIC prospectus as well as this prospectus supplement.

The certificates, together with interest thereon, are not guaranteed by the United States and do not constitute a debt or obligation of the United States or any agency or instrumentality thereof other than Fannie Mae.

The certificates are exempt from registration under the Securities Act of 1933 and are "exempted securities" under the Securities Exchange Act of 1934.

**Wells Fargo Securities**

The date of this Prospectus Supplement is February 22, 2019

Class	Group	Original Class Balance	Principal Type(1)	Interest Rate	Interest Type(1)	CUSIP Number	Final Distribution Date
FM . . . .	8	\$ 37,916,147	PT	(2)	FLT	3136B33T5	March 2049
SM . . . .	8	37,916,147(3)	NTL	(2)	INV/IO	3136B33U2	March 2049
MB(4) .	8	122,274,000	PAC/AD	3.0%	FIX	3136B33V0	June 2048
MI(4) . .	8	27,172,000(3)	NTL	4.5	FIX/IO	3136B33W8	June 2048
VM(4) .	8	3,218,000	PAC/AD	4.0	FIX	3136B33X6	February 2032
MZ(4) .	8	4,805,000	PAC/AD	4.0	FIX/Z	3136B33Y4	March 2049
ZM . . . .	8	21,367,590	SUP	4.0	FIX/Z	3136B33Z1	March 2049
FN . . . .	9	30,674,356	SC/PT	(2)	FLT	3136B34A5	November 2036
SN . . . .	9	30,674,356(3)	NTL	(2)	INV/IO	3136B34B3	November 2036
NA . . . .	9	12,269,742	SC/PT	3.0	FIX	3136B34C1	November 2036
GF . . . .	10	20,548,194	PT	(2)	FLT	3136B34D9	March 2049
GS . . . .	10	20,548,194(3)	NTL	(2)	INV/IO	3136B34E7	March 2049
GA . . . .	10	27,397,593	PT	3.0	FIX	3136B34F4	March 2049
FH . . . .	11	22,306,343	PT	(2)	FLT	3136B34G2	March 2049
SH(4) . .	11	22,306,343(3)	NTL	(2)	INV/IO	3136B34H0	March 2049
HL . . . .	11	8,142,000	PAC	3.5	FIX	3136B34J6	January 2048
HM . . . .	11	917,000	PAC	3.5	FIX	3136B34K3	March 2049
H . . . . .	11	2,094,172	SUP	3.5	FIX	3136B34L1	March 2049
CA . . . .	12	15,420,000	SC/SEQ	3.5	FIX	3136B34M9	April 2048
VC(4) .	12	4,517,000	SC/SEQ/AD	3.5	FIX	3136B34N7	April 2048
ZC(4) . .	12	7,884,754	SC/SEQ	3.5	FIX/Z	3136B34P2	April 2048
R . . . . .		0	NPR	0	NPR	3136B34Q0	March 2049
RL . . . .		0	NPR	0	NPR	3136B34R8	March 2049

- (1) See "Description of the Certificates - Class Definitions and Abbreviations" in the REMIC prospectus.
- (2) Based on LIBOR.
- (3) Notional principal balances. These classes are interest only classes. See page S-6 for a description of how their notional principal balances are calculated.
- (4) Exchangeable classes.
- (5) Based on LIBOR and subject to the limitations described on page S-15.
- (6) The interest rate of the SA Class is calculated as described on page S-15.

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## AVAILABLE INFORMATION

You should purchase the certificates only if you have read and understood this prospectus supplement and the following documents (the "Disclosure Documents"):

- our Prospectus for Fannie Mae Guaranteed Single-Family REMIC Pass-Through Certificates dated November 1, 2018 (the "REMIC Prospectus");
- our Prospectus for Fannie Mae Guaranteed Mortgage Pass-Through Certificates (Single-Family Residential Mortgage Loans) dated
  - May 1, 2018, for all MBS issued on or after May 1, 2018,
  - June 1, 2016, for all MBS issued on or after June 1, 2016 and prior to May 1, 2018,
  - October 1, 2014, for all MBS issued on or after October 1, 2014 and prior to June 1, 2016,
  - March 1, 2013, for all MBS issued on or after March 1, 2013 and prior to October 1, 2014,
  - February 1, 2012, for all MBS issued on or after February 1, 2012 and prior to March 1, 2013,
  - July 1, 2011, for all MBS issued on or after July 1, 2011 and prior to February 1, 2012,
  - June 1, 2009, for all MBS issued on or after January 1, 2009 and prior to July 1, 2011,
  - April 1, 2008, for all MBS issued on or after June 1, 2007 and prior to January 1, 2009, or
  - January 1, 2006, for all other MBS(as applicable, the "MBS Prospectus");
- if you are purchasing a Group 3, Group 9 or Group 12 Class or the R or RL Class, the disclosure documents relating to the applicable underlying REMIC and RCR certificates (the "Underlying REMIC Disclosure Documents"); and
- any information incorporated by reference in this prospectus supplement as discussed below and under the heading "Incorporation by Reference" in the REMIC Prospectus.

For a description of current servicing policies generally applicable to existing Fannie Mae MBS pools, see "Yield, Maturity, and Prepayment Considerations" in the MBS Prospectus dated May 1, 2018.

The MBS Prospectus and the Underlying REMIC Disclosure Documents are incorporated by reference in this prospectus supplement. This means that we are disclosing information in those documents by referring you to them. Those documents are considered part of this prospectus supplement, so you should read this prospectus supplement, and any applicable supplements or amendments, together with those documents.

You can obtain copies of the Disclosure Documents by writing or calling us at:

Fannie Mae  
MBS Helpline  
1100 15th Street, NW  
Washington, D.C. 20005  
(telephone 800-2FANNIE).

In addition, the Disclosure Documents, together with the class factors, are available on our corporate Web site at [www.fanniemae.com](http://www.fanniemae.com).

You also can obtain copies of the REMIC Prospectus, the MBS Prospectus and the Underlying REMIC Disclosure Documents by writing or calling the dealer at:

Wells Fargo Bank, N.A.  
c/o Wells Fargo Securities, LLC  
Customer Service  
MAC N9303-054  
608 2nd Avenue South, Suite 500  
Minneapolis, Minnesota 55479  
US and International Callers: (800) 645-3751, option 5  
[WFSCustomerService@wellsfargo.com](mailto:WFSCustomerService@wellsfargo.com).

## SUMMARY

This summary contains only limited information about the certificates. Statistical information in this summary is provided as of February 1, 2019. You should purchase the certificates only after reading this prospectus supplement and each of the additional disclosure documents listed on page S-3. In particular, please see the discussion of risk factors that appears in each of those additional disclosure documents.

### Assets Underlying Each Group of Classes

<u>Group</u>	<u>Assets</u>
1	Group 1 MBS
2	Group 2 MBS
3	Class 2018-47-KL REMIC Certificate Class 2018-47-MY REMIC Certificate Class 2018-60-MY REMIC Certificate Class 2018-65-BV REMIC Certificate Class 2018-65-PV REMIC Certificate Class 2018-65-VB REMIC Certificate Class 2018-65-VP REMIC Certificate Class 2018-65-ZL RCR Certificate Class 2018-75-ML REMIC Certificate
4	Group 4 MBS
5	Group 5 MBS
6	Group 6 MBS
7	Group 7 MBS
8	Group 8 MBS
9	Class 2006-46-PH REMIC Certificate Class 2006-106-PD REMIC Certificate Class 2009-20-GP RCR Certificate
10	Group 10 MBS
11	Group 11 MBS
12	Class 2018-22-MG RCR Certificate Class 2018-24-BC REMIC Certificate Class 2018-31-BP REMIC Certificate Class 2018-73-MA REMIC Certificate

### Group 1, Group 2, Group 4, Group 5, Group 7, Group 8, Group 10 and Group 11

#### Characteristics of the Fixed Rate MBS

	<u>Approximate Principal Balance</u>	<u>Pass- Through Rate</u>	<u>Range of Weighted Average Coupons or WACs (annual percentages)</u>	<u>Range of Weighted Average Remaining Terms to Maturity or WAMs (in months)</u>
Group 1 MBS	\$ 80,685,628	6.00%	6.25% to 8.50%	241 to 360
Group 2 MBS	\$ 52,498,611	3.00%	3.25% to 5.50%	241 to 360
Group 4 MBS	\$ 73,500,000	4.00%	4.25% to 6.50%	241 to 360
Group 5 MBS	\$ 58,913,578	4.00%	4.25% to 6.50%	241 to 360
Group 7 MBS	\$ 45,485,803	4.50%	4.75% to 7.00%	241 to 360
Group 8 MBS	\$189,580,737	4.50%	4.75% to 7.00%	237 to 360

Group 10 MBS	\$ 47,945,787	4.50%	4.75% to 7.00%	241 to 360
Group 11 MBS	\$ 33,459,515	5.50%	5.75% to 8.00%	241 to 360

Assumed Characteristics of the Underlying Mortgage Loans

	<u>Principal Balance</u>	<u>Original Term to Maturity (in months)</u>	<u>Remaining Term to Maturity (in months)</u>	<u>Loan Age (in months)</u>	<u>Interest Rate</u>
Group 1 MBS	\$ 80,685,628	360	358	1	6.573%
Group 2 MBS	\$ 52,498,611	360	351	6	4.186%
Group 4 MBS	\$ 73,500,000	360	352	7	4.749%
Group 5 MBS	\$ 58,913,578	360	354	4	4.710%
Group 7 MBS	\$ 45,485,803	360	332	10	5.229%
Group 8 MBS	\$189,580,737	360	348	11	4.950%
Group 10 MBS	\$ 47,945,787	360	352	7	5.097%
Group 11 MBS	\$ 33,459,515	360	358	2	6.299%

The actual remaining terms to maturity, loan ages and interest rates of most of the mortgage loans underlying the fixed rate MBS will differ from those shown above, and may differ significantly. See "Risk Factors - Risks Relating to Yield and Prepayment - *Yields on and weighted average lives of the certificates are affected by actual characteristics of the mortgage loans backing the series trust assets*" in the REMIC Prospectus.

### Group 3, Group 9 and Group 12

Exhibit A-1 and Exhibit A-3 describes the underlying REMIC and RCR certificates in Group 3, Group 9 and Group 12, including certain information about the related mortgage loans. To learn more about the underlying REMIC and RCR certificates, you should obtain from us the current class factors and the related disclosure documents as described on page S-3.

### Group 6

The first table in Exhibit A-2 of this prospectus supplement lists certain assumed characteristics of the mortgage loans underlying the adjustable-rate MBS in Group 6. The assumed characteristics appearing in Exhibit A-2 may not reflect the actual characteristics of the individual adjustable-rate mortgage loans included in the related pools. The actual characteristics of most of the related mortgage loans may differ from those specified in Exhibit A-2, and may differ significantly.

The second table in Exhibit A-2 of this prospectus supplement lists the pool numbers of the adjustable-rate MBS in Group 6 that are expected to be included in the Lower Tier REMIC.

### Settlement Date

We expect to issue the certificates on February 28, 2019.

### Distribution Dates

We will make payments on the certificates on the 25th day of each calendar month, or on the next business day if the 25th day is not a business day.

### Record Date

On each distribution date, we will make each monthly payment on the certificates to holders of record on the last day of the preceding month.

### Book-Entry and Physical Certificates

We will issue the classes of certificates in the following forms:

#### Fed Book-Entry

All classes of certificates other than the R and RL Classes

#### Physical

R and RL Classes

## Exchanging Certificates Through Combination and Recombination

If you own certificates of a class designated as "exchangeable" on the cover of this prospectus supplement, you will be able to exchange them for a proportionate interest in the related RCR certificates. Schedule 1 lists the available combinations of the certificates eligible for exchange and the related RCR certificates. You can exchange your certificates by notifying us and paying an exchange fee. We will deliver the RCR certificates upon such exchange.

We will apply principal and interest payments from exchanged REMIC certificates to the corresponding RCR certificates, on a pro rata basis, following any exchange.

## Interest Rates

During each interest accrual period, the fixed rate classes will bear interest at the applicable annual interest rates listed on the cover of this prospectus supplement or on Schedule 1.

During the initial interest accrual period, the floating rate and inverse floating rate classes (other than the FA Class) will bear interest at the initial interest rates listed below. During each subsequent interest accrual period, the floating rate and inverse floating rate classes (other than the FA Class) will bear interest based on the formulas indicated below, but always subject to the specified maximum and minimum interest rates:

<u>Class</u>	<u>Initial Interest Rate</u>	<u>Maximum Interest Rate</u>	<u>Minimum Interest Rate</u>	<u>Formula for Calculation of Interest Rate(1)</u>
LF .....	3.059%	6.50%	0.55%	LIBOR + 55 basis points
LS .....	3.441%	5.95%	0.00%	5.95% - LIBOR
FM .....	2.954%	6.50%	0.45%	LIBOR + 45 basis points
SM .....	3.546%	6.05%	0.00%	6.05% - LIBOR
FN .....	2.904%	6.50%	0.40%	LIBOR + 40 basis points
SN .....	3.596%	6.10%	0.00%	6.10% - LIBOR
GF .....	2.954%	6.50%	0.45%	LIBOR + 45 basis points
GS .....	3.546%	6.05%	0.00%	6.05% - LIBOR
FH .....	2.954%	6.50%	0.45%	LIBOR + 45 basis points
SH .....	3.546%	6.05%	0.00%	6.05% - LIBOR
SK .....	3.546%	6.05%	0.00%	6.05% - LIBOR

(1) We will establish LIBOR on the basis of the "ICE Method."

During each interest accrual period, the FA and SA Classes will bear interest at the applicable annual rates described under "Description of the Certificates-Distributions of Interest -*The FA Class*" and "*The SA Class*," respectively, in this prospectus supplement.

## Notional Classes

The notional principal balances of the notional classes specified below will equal the percentages of the outstanding balances specified below immediately before the related distribution date:

<u>Class</u>	
LS .....	100% of the LF Class
SA .....	100% of the FA Class
IQ .....	22.2222217337% of the Group 7 MBS
SM .....	100% of the FM Class
MI .....	22.2222222222% of the MB Class
SN .....	100% of the FN Class
GS .....	100% of the GF Class
SH .....	100% of the FH Class
QI .....	11.1111104478% of the QA Class
SK .....	100% of the FH Class

## Distributions of Principal

For a description of the principal payment priorities, see "Description of the Certificates-Distributions of Principal" in this prospectus supplement.

### Weighted Average Lives (years)\*

		PSA Prepayment Assumption					
<u>Group 1 Classes</u>		<u>0%</u>	<u>100%</u>	<u>250%</u>	<u>536%</u>	<u>1100%</u>	<u>1700%</u>
LF, LS and LA	.....	20.8	11.4	6.5	3.6	2.0	1.5

		PSA Prepayment Assumption					
<u>Group 2 Classes</u>		<u>0%</u>	<u>100%</u>	<u>250%</u>	<u>396%</u>	<u>800%</u>	<u>1200%</u>
EA	.....	17.6	9.0	5.1	3.5	2.0	1.4
EZ	.....	29.2	25.5	18.5	13.2	6.6	4.1

		PSA Prepayment Assumption					
<u>Group 3 Classes</u>		<u>0%</u>	<u>100%</u>	<u>250%</u>	<u>399%</u>	<u>800%</u>	
AU	.....	0.5	0.5	0.5	0.5	0.5	
AM	.....	17.7	11.4	8.5	7.0	3.7	
ZA	.....	25.5	16.5	14.5	12.2	6.1	
AY	.....	24.7	14.6	11.5	9.4	4.6	
AT	.....	17.5	11.2	8.4	6.9	3.7	

		PSA Prepayment Assumption					
<u>Group 4 Classes</u>		<u>0%</u>	<u>100%</u>	<u>197%</u>	<u>400%</u>	<u>800%</u>	
DA	.....	15.8	6.1	3.8	2.2	1.3	
DV	.....	5.0	5.0	4.9	3.7	2.3	
VD	.....	15.9	13.6	9.7	5.7	3.1	
DZ	.....	27.7	21.4	16.4	9.9	5.1	
DY	.....	27.7	20.0	14.1	7.9	4.0	

		PSA Prepayment Assumption					
<u>Group 5 Classes</u>		<u>0%</u>	<u>100%</u>	<u>205%</u>	<u>400%</u>	<u>800%</u>	
K	.....	4.5	1.4	1.0	0.7	0.4	
KC	.....	17.4	6.6	4.1	2.6	1.6	
VK	.....	6.0	6.0	5.3	3.8	2.4	
KZ	.....	27.2	18.9	13.6	8.3	4.4	
KD	.....	5.3	3.9	3.3	2.4	1.5	

		CPR Prepayment Assumption					
<u>Group 6 Classes</u>		<u>0%</u>	<u>5%</u>	<u>15%</u>	<u>25%</u>	<u>50%</u>	<u>75%</u>
FA and SA	.....	9.2	7.0	4.3	2.9	1.4	0.7

		PSA Prepayment Assumption					
<u>Group 7 Classes</u>		<u>0%</u>	<u>100%</u>	<u>209%</u>	<u>400%</u>	<u>800%</u>	
IQ	.....	19.9	10.2	6.6	3.9	2.0	
QA, QB and QI	.....	16.9	6.5	3.9	2.3	1.3	
VQ	.....	6.0	6.0	5.8	4.2	2.5	
QV	.....	15.7	14.5	10.1	6.1	3.2	
QZ	.....	28.2	21.1	15.8	9.9	4.9	



<u>Group 8 Classes</u>	<u>PSA Prepayment Assumption</u>						
	<u>0%</u>	<u>100%</u>	<u>125%</u>	<u>175%</u>	<u>225%</u>	<u>500%</u>	<u>800%</u>
FM and SM .....	19.9	10.4	9.3	7.5	6.3	3.1	2.0
MB, MI, MC, MA, MD, ME and MG .....	14.5	6.5	6.0	6.0	6.0	3.1	2.0
VM .....	7.0	7.0	7.0	7.0	7.0	6.1	4.3
MZ .....	24.3	21.0	21.0	21.0	21.0	11.3	6.9
ZM .....	27.4	20.2	18.6	11.1	2.2	0.6	0.4
MY .....	24.3	21.0	21.0	21.0	21.0	10.9	6.4

<u>Group 9 Classes</u>	<u>PSA Prepayment Assumption</u>					
	<u>0%</u>	<u>100%</u>	<u>207%</u>	<u>400%</u>	<u>800%</u>	<u>1200%</u>
FN, SN and NA .....	10.7	6.0	4.6	2.9	1.4	0.8

<u>Group 10 Classes</u>	<u>PSA Prepayment Assumption</u>					
	<u>0%</u>	<u>100%</u>	<u>220%</u>	<u>400%</u>	<u>800%</u>	<u>1200%</u>
GF, GS and GA .....	19.9	10.6	6.6	4.1	2.2	1.5

<u>Group 11 Classes</u>	<u>PSA Prepayment Assumption</u>						
	<u>0%</u>	<u>100%</u>	<u>175%</u>	<u>209%</u>	<u>300%</u>	<u>600%</u>	<u>1200%</u>
FH, SH and SK .....	20.5	11.3	8.3	7.3	5.6	3.2	1.8
HL .....	17.6	7.3	5.1	5.1	5.1	3.1	1.9
HM .....	27.1	18.3	16.4	16.4	16.4	8.7	4.0
H .....	28.9	23.7	16.9	11.9	2.7	1.1	0.7

<u>Group 12 Classes</u>	<u>PSA Prepayment Assumption</u>					
	<u>0%</u>	<u>100%</u>	<u>120%</u>	<u>250%</u>	<u>500%</u>	<u>800%</u>
CA .....	18.3	7.3	6.5	3.8	2.0	1.2
VC .....	7.0	7.0	7.0	6.1	4.0	2.6
ZC .....	26.8	19.1	17.7	12.7	7.0	4.2
CL .....	26.8	19.1	17.7	12.2	6.4	3.8

\* Determined as specified under "Yield, Maturity and Prepayment Considerations - Weighted Average Lives and Final Distribution Dates" in the REMIC Prospectus.

## ADDITIONAL RISK FACTORS

*Recent natural disasters may present a risk of increased mortgage loan defaults.* In November 2018, various areas of Northern and Southern California experienced catastrophic damage due to wildfires; in September and October of 2018, areas of the coastal Carolinas and Florida experienced extensive damage as a result of Hurricane Florence and Hurricane Michael, respectively; and in late summer 2017, Hurricane Harvey, Hurricane Irma and Hurricane Maria resulted in catastrophic damage to extensive areas of the Southeastern United States (including coastal Texas and Louisiana and coastal and inland Florida and Georgia), Puerto Rico and the U.S. Virgin Islands. The full extent of the damage resulting from the foregoing events, including fire loss, mudslides, severe flooding, high winds and environmental contamination, remains uncertain. Thousands of people have been displaced and interruptions in the affected regional economies have been significant. Although the long-term effects are unclear, these events could lead to a general economic downturn in the affected regions, including job losses and declines in real estate values. Accordingly, the rate of defaults on mortgage loans in the affected areas may increase. Any such increase will result in early payments of principal to holders of certificates (and early decreases in notional principal balances of interest only certificates) backed by MBS with underlying mortgage loans secured by properties in the affected areas.

*Uncertainty as to the determination of LIBOR and the potential phasing out of LIBOR after 2021 may adversely affect the value of certain certificates.* On July 27, 2017, regulatory authorities in the United Kingdom announced their intention to stop persuading or compelling banks to submit LIBOR rates after 2021. In early 2018, ICE stated its intention to continue to administer and quote LIBOR after 2021, possibly employing an alternative methodology. Therefore, no assurance can be given that LIBOR on any date accurately represents the London interbank rate or the rate applicable to actual loans in U.S. dollars for the relevant period between leading European banks, or that the underlying methodology for LIBOR will not change. Efforts to identify a set of alternative U.S. dollar reference interest rates include proposals by the Alternative Reference Rates Committee of the Federal Reserve Board and the Federal Reserve Bank of New York. At present, we are unable to predict the effect of any alternative reference rates that may be established or any other reforms to LIBOR that may be adopted in the United Kingdom, in the U.S. or elsewhere. Uncertainty as to the nature of such potential changes, alternative reference rates or other reforms may adversely affect the trading market for LIBOR-based securities, including certificates with interest rates that adjust based on LIBOR. Moreover, any future reform, replacement or disappearance of LIBOR may adversely affect the value of and return on the affected certificates.

*The use of an alternative method or index in place of LIBOR for determining monthly interest rates may adversely affect the value of certain certificates.* As discussed in this prospectus supplement under "Description of the Certificates-Distributions of Interest," we may in our discretion designate an alternative method or, if appropriate, an alternative index for the determination of monthly interest rates on the floating rate and inverse floating rate classes if, among other things, we determine that continued reliance on the customary method for determining LIBOR is no longer viable. We can provide no assurance that any such alternative method or index will yield the same or similar economic results over the lives of the related classes. In addition, although our designation of any alternative method or index will take into account various factors, including then-prevailing industry practices, there can be no assurance that broadly-adopted industry practices will develop, and it is uncertain what effect any divergent industry practices will have on the value of and return on the certificates.

*Payments on the Group 3, Group 9 and Group 12 Classes will be affected by the applicable payment priorities governing the related underlying REMIC and RCR certificates.* If you invest in a Group 3, Group 9 and Group 12 Class, the rate at which you receive payments will be affected by the applicable priority sequences governing principal payments on the related underlying REMIC and RCR certificates.

As described in the related Underlying REMIC Disclosure Documents, the underlying REMIC and RCR certificates may be subsequent in payment priority to certain other classes issued from the related underlying REMIC trusts. As a result, such other classes may receive principal before principal is paid on the related underlying REMIC and RCR certificates, possibly for long periods.

In particular, as described in the related Underlying REMIC Disclosure Documents, principal payments on the Group 3 Underlying REMIC and RCR Certificates, the Group 9 Underlying REMIC and RCR Certificates and most of the Group 12 Underlying REMIC and RCR Certificates are governed by principal balance schedules. As a result, the applicable Group 3, Group 9 and Group 12 Underlying REMIC and RCR Certificates may receive principal payments faster or slower than would otherwise have been the case. In some cases, they may receive no principal payments for extended periods. Prepayments on the related mortgage loans may have occurred at rates faster or slower than the rates initially assumed. In certain high prepayment scenarios, it is possible that the effect of a principal balance schedule on principal payments over

time may be eliminated. In such a case, the applicable Group 3, Group 9 and Group 12 Underlying REMIC and RCR Certificates would receive principal payments at rates that may vary widely from period to period. This prospectus supplement contains no information as to whether

- the applicable Group 3, Group 9 and Group 12 Underlying REMIC and RCR Certificates have adhered to the related principal balance schedules,
- any related support classes remain outstanding, or
- the Group 3, Group 9 and Group 12 Underlying REMIC and RCR Certificates otherwise have performed as originally anticipated.

You may obtain additional information about the underlying REMIC and RCR certificates by reviewing their current class factors in light of other information available in the related Underlying REMIC Disclosure Documents. You may obtain those documents from us as described on page S-3.

## DESCRIPTION OF THE CERTIFICATES

The material under this heading describes the principal features of the Certificates. You will find additional information about the Certificates in the other sections of this prospectus supplement, as well as in the additional Disclosure Documents and the Trust Agreement. If we use a capitalized term in this prospectus supplement without defining it, you will find the definition of that term in the applicable Disclosure Document or in the Trust Agreement.

### General

*Structure.* We will create the Fannie Mae REMIC Trust specified on the cover of this prospectus supplement (the "Trust") pursuant to a trust agreement dated as of May 1, 2010 and a supplement thereto dated as of February 1, 2019 (the "Issue Date"). We will issue the Guaranteed REMIC Pass-Through Certificates (the "REMIC Certificates") pursuant to that trust agreement and supplement. We will issue the Combinable and Recombinable REMIC Certificates (the "RCR Certificates" and, together with the REMIC Certificates, the "Certificates") pursuant to a separate trust agreement dated as of May 1, 2010 and a supplement thereto dated as of the Issue Date (together with the trust agreement and supplement relating to the REMIC Certificates, the "Trust Agreement"). We will execute the Trust Agreement in our corporate capacity and as trustee (the "Trustee"). In general, the term "Classes" includes the Classes of REMIC Certificates and RCR Certificates.

The assets of the Trust will include:

- eight groups of Fannie Mae Guaranteed Mortgage Pass-Through Certificates having fixed pass-through rates (the "Group 1 MBS," "Group 2 MBS," "Group 4 MBS," "Group 5 MBS," "Group 7 MBS," "Group 8 MBS," "Group 10 MBS" and "Group 11 MBS" and together, the "Fixed Rate MBS"),
- three groups of previously issued REMIC and RCR Certificates (the "Group 3 Underlying REMIC and RCR Certificates," the "Group 9 Underlying REMIC and RCR Certificates," and the "Group 12 Underlying REMIC and RCR Certificates," and together, the "Underlying REMIC and RCR Certificates") issued from the related Fannie Mae REMIC trusts (the "Underlying REMIC Trusts"), as further described in Exhibit A-1 and Exhibit A-3, and
- one group of Fannie Mae Guaranteed Mortgage Pass-Through Certificates having variable pass-through rates (the "Group 6 MBS" or "ARM MBS").

The Fixed Rate MBS and the ARM MBS are referred to collectively as the "Trust MBS."

The Underlying REMIC and RCR Certificates evidence direct or indirect beneficial ownership interests in certain Fannie Mae Guaranteed Mortgage Pass-Through Certificates (together with the Trust MBS, the "MBS").

Each MBS represents a beneficial ownership interest in a pool of first lien, one- to four-family ("single-family"), fixed-rate or adjustable rate residential mortgage loans (the "Mortgage Loans") having the characteristics described in this prospectus supplement.

The Trust will include the "Lower Tier REMIC" and "Upper Tier REMIC" as "real estate mortgage investment conduits" (each, a "REMIC") under the Internal Revenue Code of 1986, as amended (the "Code").

The following chart contains information about the assets, the "regular interests" and the "residual interests" of each REMIC. The REMIC Certificates other than the R and RL Classes are collectively referred to as the "Regular Classes" or "Regular Certificates," and the R and RL Classes are collectively referred to as the "Residual Classes" or "Residual Certificates."

<u>REMIC Designation</u>	<u>Assets</u>	<u>Regular Interests</u>	<u>Residual Interest</u>
Lower Tier REMIC .....	Trust MBS and Underlying REMIC and RCR Certificates	Interests in the Lower Tier REMIC other than the RL Class (the "Lower Tier Regular Interests")	RL
Upper Tier REMIC .....	Lower Tier Regular Interests	All Classes of REMIC Certificates other than the R and RL Classes	R

*Fannie Mae Guaranty.* For a description of our guaranties of the Certificates, the MBS, and the Underlying REMIC and RCR Certificates, see the applicable discussions appearing under the heading "Fannie Mae Guaranty" in the REMIC Prospectus, the MBS Prospectus and the Underlying REMIC Disclosure Documents. Our guaranties are not backed by the full faith and credit of the United States.

*Characteristics of Certificates.* Except as specified below, we will issue the Certificates in book-entry form on the book-entry system of the U.S. Federal Reserve Banks. Entities whose names appear on the book-entry records of a Federal Reserve Bank as having had Certificates deposited in their accounts are "Holders" or "Certificateholders."

We will issue the Residual Certificates in fully registered, certificated form. The "Holder" or "Certificateholder" of a Residual Certificate is its registered owner. A Residual Certificate can be transferred at the corporate trust office of the Transfer Agent, or at the office of the Transfer Agent in New York, New York. U.S. Bank National Association in Boston, Massachusetts will be the initial Transfer Agent. We may impose a service charge for any registration of transfer of a Residual Certificate and may require payment to cover any tax or other governmental charge. See also "-Characteristics of the Residual Classes" below.

*Authorized Denominations.* We will issue the Certificates in the following denominations:

<u>Classes</u>	<u>Denominations</u>
Interest Only Classes	\$100,000 minimum plus whole dollar increments
All other Classes (except the R and RL Classes)	\$1,000 minimum plus whole dollar increments

## **The Fixed Rate MBS**

The Fixed Rate MBS provide that principal and interest on the related Mortgage Loans are passed through monthly. The Mortgage Loans underlying the Fixed Rate MBS are conventional, fixed-rate, fully-amortizing mortgage loans secured by first mortgages or deeds of trust on single-family residential properties. These Mortgage Loans have original maturities of up to 30 years.

In addition, the Mortgage Loans backing the Group 2 MBS are relocation Mortgage Loans made under agreements between lenders and employers that frequently relocate their employees. For additional information, see "Risk Factors-Risks Relating to Yield and Prepayment-Pools containing relocation mortgage loans may perform differently than do otherwise comparable pools containing non-relocation mortgage loans" and "The Mortgage Loans-Eligibility for Good Delivery into a TBA Trade-Special Feature Mortgage Loans-Relocation Loans" in the MBS Prospectus dated May 1, 2018.

Furthermore, the Mortgage Loans backing the Group 7 MBS have been refinanced under Fannie Mae Refi Plus and are designated as "high loan-to-value ratio" loans, with loan-to-value ratios ranging from greater than 105% up to 125% at the time of refinance. These loans are targeted at borrowers who have demonstrated an acceptable payment history on their mortgage loans but may have been unable to refinance due to a decline in home prices or the unavailability of mortgage insurance. Fannie Mae Refi Plus refinancing is available only if the new mortgage loan either reduces the monthly principal and interest payment for the borrower or provides a more stable loan product (such as movement from an adjustable-rate loan to a fixed rate loan). For more information on the Home Affordable Refinance Program, see "The Mortgage Loans-High Loan-to-Value Mortgage Loans" in the MBS Prospectus dated May 1, 2018 and on our Web site at [www.fanniemae.com](http://www.fanniemae.com). See also "Risk Factors-Risks Relating to Yield and Prepayment-Mortgage loans with loan-to-value ratios greater than 80% may have different prepayment and default characteristics than conforming mortgage loans generally" in the MBS Prospectus dated May 1, 2018.

For additional information, see "Summary- Group 1, Group 2, Group 4, Group 5, Group 7, Group 8, Group 10 and Group 11 - Characteristics of the Fixed Rate MBS" in this prospectus supplement and "The Mortgage Loan Pools" and "Yield, Maturity and Prepayment Considerations" in the MBS Prospectus.

### **The Underlying REMIC and RCR Certificates**

The Underlying REMIC and RCR Certificates represent beneficial ownership interests in the related Underlying REMIC Trusts. The assets of those trusts consist of MBS (or beneficial ownership interests in MBS) having the general characteristics set forth in the MBS Prospectus. Each MBS evidences beneficial ownership interests in a pool of conventional, fixed-rate, fully-amortizing mortgage loans secured by first mortgages or deeds of trust on single-family residential properties, as described under "The Mortgage Loan Pools" and "Yield, Maturity and Prepayment Considerations" in the MBS Prospectus.

In addition, the pools of mortgage loans backing the Group 3 Underlying REMIC and RCR Certificates have been designated as pools that include "jumbo-conforming" or "high balance" mortgage loans as described further under "The Mortgage Loans-Mortgage Loans with Original Principal Balances Exceeding our Traditional Conforming Loan Limits" in the MBS Prospectus dated May 1, 2018. For periodic updates to that description, please refer to the Pool Prefix Glossary available on our Web site at [www.fanniemae.com](http://www.fanniemae.com). For additional information about the particular pools backing the Group 3 Underlying REMIC and RCR Certificates, see the Final Data Statement for the Trust and the related prospectus supplement for each MBS. See also "Risk Factors-Risks Relating to Yield and Prepayment-"*Jumbo-conforming*" mortgage loans, which have original principal balances that exceed our traditional conforming loan limits, may prepay at different rates than conforming balance mortgage loans generally" in the MBS Prospectus dated June 1, 2016.

Distributions on the Underlying REMIC and RCR Certificates will be passed through monthly, beginning in the month after we issue the Certificates. The general characteristics of the Underlying REMIC and RCR Certificates are described in the related Underlying REMIC Disclosure Documents. See Exhibit A-1 and Exhibit A-3 for certain additional information about the Underlying REMIC and RCR Certificates. Exhibit A-1 and Exhibit A-3 is provided in lieu of a Final Data Statement with respect to the Underlying REMIC and RCR Certificates.

For further information about the Underlying REMIC and RCR Certificates, telephone us at 800-2FANNIE. Additional information about the Underlying REMIC and RCR Certificates is also available at <https://mbsdisclosure.fanniemae.com/PoolTalk2/index.html>. There may have been material changes in facts and circumstances since the dates we prepared the Underlying REMIC Disclosure Documents. These may include changes in prepayment speeds, prevailing interest rates and other economic factors. As a result, the usefulness of the information set forth in those documents may be limited.

### **The ARM MBS**

Unless otherwise specified, references in this section to percentages of the Hybrid ARM Loans are in each case measured by aggregate principal balance of the related Group of Hybrid ARM Loans at the Issue Date.

#### *General*

The Mortgage Loans underlying the ARM MBS in Group 6 (the "Hybrid ARM Loans") will have the general characteristics described in the MBS Prospectus. In addition, we assume that the Hybrid ARM Loans will have the characteristics listed in the first table on Exhibit A-2, to this prospectus supplement. The ARM MBS provide that principal and interest on the Hybrid ARM Loans are passed through monthly, beginning in the month after we issue the ARM MBS. Except as described below, the Hybrid ARM Loans are conventional, adjustable-rate mortgage loans secured by first mortgages or deeds of trust on single-family residential properties. Substantially all of the Hybrid ARM Loans have original maturities of up to 30 years. See "Description of the Certificates," "The Mortgage Loan Pools", "The Mortgage Loans-Adjustable-Rate Mortgage Loans (ARM Loans)" and "Yield, Maturity and Prepayment Considerations" in the MBS Prospectus. See also the second table in Exhibit A-2, to this prospectus supplement for the pool numbers of the ARM MBS in Group 6 that are expected to be included in the Lower Tier REMIC.

#### *Characteristics of the Hybrid ARM Loans*

##### *Applicable Indices*

After the initial fixed-rate period, the interest rate (the "ARM Rate") for the Hybrid ARM Loans will adjust

- in the case of approximately 0.1% of the Hybrid ARM Loans, semi-annually based on the Six-Month WSJ LIBOR Index (the "Six-Month LIBOR ARM Loans") as available generally 25 days, as applicable, prior to the related interest rate adjustment date; or
- in the case of approximately 82.6% of the Hybrid ARM Loans, annually based on the One-Year WSJ LIBOR Index (the "One-Year LIBOR ARM Loans") as available generally 25 days or 45 days, as applicable, prior to the related interest rate adjustment date; or
- in the case of approximately 17.3% of the Hybrid ARM Loans, annually based on the One-Year Treasury Index (the "One-Year Treasury ARM Loans") as available generally 45 days, as applicable, prior to the related interest rate adjustment date.

See "The Mortgage Loans-Adjustable-Rate Mortgage Loans (ARM Loans)- *ARM Indices*" in the MBS Prospectus for a description of the index. If the index becomes unavailable, an alternative index will be determined in accordance with the terms of the related mortgage note.

#### Initial Interest Only Periods

The scheduled monthly payments on approximately 21% of the Hybrid ARM Loans represent accrued interest only for periods that generally range up to 10 years following origination. Beginning with the first monthly payment following the expiration of the applicable interest only period, the related loan documents provide that the scheduled monthly payment on each of the related Hybrid ARM Loans will be increased by an amount sufficient to pay accrued interest at the then current rate and to fully amortize the Hybrid ARM Loan by its scheduled maturity date. See "Risk Factors-Risks Relating to Yield and Prepayment- *Fixed-rate and ARM loans with long initial interest-only payment periods may be more likely to be refinanced or become delinquent than other mortgage loans*" in the MBS Prospectus dated May 1, 2018.

#### Initial Fixed-Rate Periods

For the following approximate percentages of the Hybrid ARM Loans, the interest rates were fixed for the initial periods from origination reflected in the following table (the "Initial Fixed Rate"):

<b>Initial Fixed-Rate Period</b>		
<b><u>3 years</u></b>	<b><u>5 years</u></b>	<b><u>7 years</u></b>
5%	86%	9%

#### ARM Rate Changes

After the initial fixed-rate period, the ARM Rate of each Hybrid ARM Loan is set annually or semi-annually, subject to the caps and floors described below, to equal the *sum* of (i) the applicable index value *plus* (ii) a specified percentage amount (the "ARM Margin") that the lender established when the Hybrid ARM Loan was originated.

#### Initial ARM Rate Change Caps

For the interest rate adjustment immediately following the end of the initial fixed-rate period, the ARM Rate for each Hybrid ARM Loan generally may not deviate by more than 2, 5 or 6 percentage points, as applicable, from the related Initial Fixed Rate.

#### Subsequent ARM Rate Change Caps

On each applicable ARM Rate adjustment date thereafter, the ARM Rate for each Hybrid ARM Loan generally may not deviate by more than 2 percentage points, as applicable, from the related ARM Rate in effect immediately prior to that adjustment date.

#### Lifetime Cap and Floor

The ARM Rate for each Hybrid ARM Loan, when adjusted on its applicable adjustment date, may not be greater than the maximum ARM Rate (lifetime rate cap) or less than its minimum ARM Rate (lifetime floor), as specified in the related mortgage note.

#### Monthly Payments

After the initial fixed-rate period, the amount of a borrower's monthly payment is subject to change

- in the case of the Six-Month LIBOR ARM Loans, at six-month intervals after the date specified in the related mortgage note, or

- in the case of the One-Year LIBOR ARM Loans and One-Year Treasury ARM Loans, generally on each anniversary of the date specified in the related mortgage note; or
- as otherwise specified on Exhibit A-2 to this prospectus supplement.

Each new monthly payment amount will be calculated to equal an amount necessary to pay interest at the new ARM Rate, adjusted as described above, and, except in the case of any loan that may still be in its initial interest only payment period, to fully amortize the outstanding principal balance of the Hybrid ARM Loan on a level debt service basis over the remainder of its term.

#### Prepayment Premium Periods

Approximately 2% of the Hybrid ARM Loans were subject to prepayment premiums if the borrowers made full or partial prepayments during prepayment premium periods that may range up to 12 months from the applicable origination dates.

#### Reduced Servicing Fee

Approximately 18% of the Hybrid ARM Loans have a minimum annual servicing fee of 0.125%. See "Fannie Mae Purchase Program-Servicing Compensation and Payment of Certain Expenses" in the MBS Prospectus.

### Distributions of Interest

*General.* The Certificates will bear interest at the rates specified in this prospectus supplement. Interest to be paid on each Certificate (or added to principal, in the case of the Accrual Classes) on a Distribution Date will consist of one month's interest on the outstanding balance of that Certificate immediately prior to that Distribution Date. For a description of the Accrual Classes, see "*Accrual Classes*" below.

The Floating Rate and Inverse Floating Rate Classes will bear interest at interest rates based on LIBOR. We currently establish LIBOR on the basis of the "ICE Method" as generally described under "Description of the Certificates - Distributions on Certificates - *Interest Distributions - Indices for Floating Rate Classes and Inverse Floating Rate Classes*" in the REMIC Prospectus. For a description of recent developments affecting LIBOR calculations, see "Additional Risk Factors - *Uncertainty as to the determination of LIBOR and the potential phasing out of LIBOR after 2021 may adversely affect the value of certain certificates*" in this prospectus supplement. If we determine that the methods for establishing LIBOR are no longer viable or that prevailing industry practices with respect to benchmark rates have transitioned, or are very likely to transition, away from the use of LIBOR, we may in our discretion designate an alternative method or, if appropriate, an alternative index for the determination of monthly interest rates on the Floating Rate and Inverse Floating Rate Classes. In making any such designation, we will take into account general comparability and other factors, including then-prevailing industry practices. Further, we may also determine the business day convention, the definition of business day, the reference rate date and the determination date to be used and any other methodology for calculating the alternative method or index, and we may apply an adjustment factor to any designated alternative index as deemed appropriate to better achieve comparability to the current index and otherwise in keeping with industry-accepted practices. See "Additional Risk Factors - *The use of an alternative method or index in place of LIBOR for determining monthly interest rates may adversely affect the value of certain certificates*" in this prospectus supplement.

*Delay Classes and No-Delay Classes.* The "Delay" Classes and "No-Delay" Classes are set forth in the following table:

<u><b>Delay Classes</b></u>	<u><b>No-Delay Classes</b></u>
Fixed Rate Classes and the FA and SA Classes	Floating Rate and Inverse Floating Rate Classes other than the FA Class

See "Description of the Certificates - Distributions on Certificates - *Interest Distributions*" in the REMIC Prospectus.

*Accrual Classes.* The EZ, ZA, DZ, KZ, QZ, MZ, ZM and ZC Classes are Accrual Classes. Interest will accrue on each Accrual Class at the applicable annual rate specified on the cover of this prospectus supplement. However, we will not pay any interest on the Accrual Classes. Instead, interest accrued on each Accrual Class will be added as principal to its principal balance on each Distribution Date. We will pay principal on the Accrual Classes as described under "*Distributions of Principal*" below.

*The FA Class.*

On each Distribution Date, we will pay interest on the FA Class in an amount equal to one month's interest at an annual rate equal to the *lesser* of

- LIBOR + 40 basis points (but in no event less than 0.40%)
- or
- the Weighted Average Group 6 MBS Pass-Through Rate.

The "Weighted Average Group 6 MBS Pass-Through Rate" for any Distribution Date is equal to the weighted average of the pass-through rates of the Group 6 MBS in effect for calculating distributions on that Distribution Date, weighted on the basis of the principal balances of the Group 6 MBS after giving effect to distributions of principal made on the immediately preceding Distribution Date.

During the initial interest accrual period, the FA Class will bear interest at an annual rate of 2.913%. Our determination of the interest rate for the FA Class will be final and binding in the absence of manifest error. You may obtain each such interest rate by telephoning us at 800-2FANNIE.

*The SA Class.*

On each Distribution Date, we will pay interest on the SA Class at an annual rate equal to the *product* of

- a fraction, expressed as a percentage, the numerator of which is the *excess*, if any, of
  - the aggregate amount of interest then paid on the Group 6 MBS
  - over
  - the interest payable on the FA Class on that Distribution Date,

and the denominator of which is the notional principal balance of the SA Class immediately preceding that Distribution Date,

*multiplied by*

- 12.

During the initial interest accrual period, the SA Class is expected to bear interest at an annual rate of approximately 1.574%. Our determination of the interest rate for the SA Class will be final and binding in the absence of manifest error. You may obtain each such interest rate by telephoning us at 800-2FANNIE.

**Distributions of Principal**

On the Distribution Date in each month, we will make payments of principal on the Classes of REMIC Certificates as described below. Following any exchange of REMIC Certificates for RCR Certificates, we will apply principal payments from the exchanged REMIC Certificates to the corresponding RCR Certificates on a pro rata basis.

• *Group 1*

The Group 1 Principal Distribution Amount to LF and LA, pro rata, until retired.

The "Group 1 Principal Distribution Amount" is the principal then paid on the Group 1 MBS.

• *Group 2*

The EZ Accrual Amount to EA until retired, and thereafter to EZ.

The Group 2 Cash Flow Distribution Amount to EA and EZ, in that order, until retired.

The "EZ Accrual Amount" is any interest then accrued and added to the principal balance of the EZ Class.

The "Group 2 Cash Flow Distribution Amount" is the principal then paid on the Group 2 MBS.

• *Group 3*

The ZA Accrual Amount to AU and AM, in that order, until retired, and thereafter to ZA.

The Group 3 Cash Flow Distribution Amount to AU, AM and ZA, in that order, until retired.



The "ZA Accrual Amount" is any interest then accrued and added to the principal balance of the ZA Class.

The "Group 3 Cash Flow Distribution Amount" is the principal then paid on the Group 3 Underlying REMIC and RCR Certificates.

- *Group 4*

The DZ Accrual Amount to DV and VD, in that order, until retired, and thereafter to DZ.

The Group 4 Cash Flow Distribution Amount to DA, DV, VD and DZ, in that order, until retired.

The "DZ Accrual Amount" is any interest then accrued and added to the principal balance of the DZ Class.

The "Group 4 Cash Flow Distribution Amount" is the principal then paid on the Group 4 MBS.

- *Group 5*

The KZ Accrual Amount to VK until retired, and thereafter to KZ.

The Group 5 Cash Flow Distribution Amount to K, KC, VK and KZ, in that order, until retired.

The "KZ Accrual Amount" is any interest then accrued and added to the principal balance of the KZ Class.

The "Group 5 Cash Flow Distribution Amount" is the principal then paid on the Group 5 MBS.

- *Group 6*

The Group 6 Principal Distribution Amount to FA until retired.

The "Group 6 Principal Distribution Amount" is the principal then paid on the Group 6 MBS.

- *Group 7*

The QZ Accrual Amount to VQ and QV, in that order, until retired, and thereafter to QZ.

The Group 7 Cash Flow Distribution Amount to QA, VQ, QV and QZ, in that order, until retired.

The "QZ Accrual Amount" is any interest then accrued and added to the principal balance of the QZ Class.

The "Group 7 Cash Flow Distribution Amount" is the principal then paid on the Group 7 MBS.

- *Group 8*

The MZ Accrual Amount to VM until retired, and thereafter to MZ.

The ZM Accrual Amount to Aggregate Group I to its Planned Balance, and thereafter to ZM.

The Group 8 Cash Flow Distribution Amount as follows:

- 19.9999997890% to FM until retired, and

- 80.0000002110% as follows:

- first*, to Aggregate Group I to its Planned Balance;

- second*, to ZM until retired; and

- third*, to Aggregate Group I to zero.

The "MZ Accrual Amount" is any interest then accrued and added to the principal balance of the MZ Class.

The "ZM Accrual Amount" is any interest then accrued and added to the principal balance of the ZM Class.

The "Group 8 Cash Flow Distribution Amount" is the principal then paid on the Group 8 MBS.

"Aggregate Group I" consists of the MB, VM and MZ Classes. On each Distribution Date, we will apply payments of principal of Aggregate Group I to MB, VM and MZ, in that order, until retired.

Aggregate Group I has a principal balance equal to the aggregate principal balance of the Classes included in Aggregate Group I.

- *Group 9*

The Group 9 Principal Distribution Amount to FN and NA, pro rata, until retired.

The "Group 9 Principal Distribution Amount" is the principal then paid on the Group 9 Underlying REMIC and RCR Certificates.

- *Group 10*

The Group 10 Principal Distribution Amount to GF and GA, pro rata, until retired.

The "Group 10 Principal Distribution Amount" is the principal then paid on the Group 10 MBS.

- *Group 11*

The Group 11 Principal Distribution Amount as follows:

- 66.6666656704% to FH until retired, and

- 33.3333343296% as follows:

- first*, to Aggregate Group II to its Planned Balance;

- second*, to H until retired; and

- third*, to Aggregate Group II to zero.

The "Group 11 Principal Distribution Amount" is the principal then paid on the Group 11 MBS.

"Aggregate Group II" consists of the HL and HM Classes. On each Distribution Date, we will apply payments of principal of Aggregate Group II to HL and HM, in that order, until retired.

Aggregate Group II has a principal balance equal to the aggregate principal balance of the Classes included in Aggregate Group II.

- *Group 12*

The ZC Accrual Amount to VC until retired, and thereafter to ZC.

The Group 12 Cash Flow Distribution Amount to CA, VC and ZC, in that order, until retired.

The "ZC Accrual Amount" is any interest then accrued and added to the principal balance of the ZC Class.

The "Group 12 Cash Flow Distribution Amount" is the principal then paid on the Group 12 Underlying REMIC and RCR Certificates.

## **Structuring Assumptions**

*Pricing Assumptions.* Except where otherwise noted, the information in the tables in this prospectus supplement has been prepared based on the actual characteristics of each pool of Mortgage Loans backing the Underlying REMIC and RCR Certificates, the applicable priority sequences governing principal payments on the Group 3, Group 9 and Group 12 Underlying REMIC and RCR Certificates, and the following assumptions (collectively, the "Pricing Assumptions"):

- the Mortgage Loans underlying the Fixed Rate MBS have the original terms to maturity, remaining terms to maturity, loan ages and interest rates specified under "Summary- Group 1, Group 2, Group 4, Group 5, Group 7, Group 8, Group 10 and Group 11 - Assumed Characteristics of the Underlying Mortgage Loans" in this prospectus supplement;
- the Hybrid ARM Loans have the characteristics set forth in Exhibit A-2 to this prospectus supplement;
- with respect to the Hybrid ARM Loans, the One-Year Treasury Index, One-Year WSJ LIBOR Index and Six-Month WSJ LIBOR Index values are and remain 2.552%, 2.962% and 2.776%, respectively;
- the Mortgage Loans prepay at the constant percentages of PSA or CPR, as applicable, specified in the related tables;
- the settlement date for the Certificates is February 28, 2019; and
- each Distribution Date occurs on the 25th day of a month.

The actual remaining terms to maturity, loan ages and interest rates of most of the mortgage loans underlying the Fixed Rate MBS will differ from the assumed characteristics shown in the Summary, and may differ significantly. See "Risk Factors - Risks Relating to Yield and Prepayment - *Yields on and weighted average lives of the certificates are affected by actual characteristics of the mortgage loans backing the series trust assets*" in the REMIC Prospectus.

*Prepayment Assumptions.* The prepayment model used in this prospectus supplement with respect to the Group 1, Group 2, Group 3, Group 4, Group 5, Group 7, Group 8, Group 9, Group 10, Group 11 and Group 12 Classes is PSA. For a description of PSA, see "Yield, Maturity and Prepayment Considerations-Prepayment Models" in the REMIC Prospectus.

The prepayment model used in this prospectus supplement with respect to the Group 6 Classes is CPR. For a description of CPR, see "Yield, Maturity and Prepayment Considerations-Prepayment Models" in the REMIC Prospectus.

It is highly unlikely that prepayments will occur at any *constant* PSA or CPR rate, as applicable, or at any other *constant* rate.

**Principal Balance Schedules.** The Principal Balance Schedules are set forth beginning on page B-1 of this prospectus supplement. The Principal Balance Schedules were prepared based on the Pricing Assumptions and the assumption that the related Mortgage Loans prepay at a *constant* rate within the applicable "Structuring Ranges," specified in the chart below. The "Effective Range" for an Aggregate Group is the range of prepayment rates (measured by *constant* PSA rates) that would reduce that Aggregate Group to its scheduled balance each month based on the Pricing Assumptions. We have not provided separate schedules for the individual Classes included in the Aggregate Groups. However, those Classes are designed to receive principal distributions in the same fashion as if separate schedules had been provided (with schedules based on the same underlying assumptions that apply to the related Aggregate Group schedule). If such separate schedules had been provided for the individual Classes included in the Aggregate Groups, we expect that the effective ranges for those Classes would not be narrower than those shown below for the related Aggregate Groups.

<u>Groups</u>	<u>Structuring Ranges</u>	<u>Initial Effective Ranges</u>
Aggregate Group I Planned Balances	Between 125% and 225% PSA	Between 125% and 225% PSA
Aggregate Group II Planned Balances	Between 175% and 300% PSA	Between 175% and 300% PSA

The Aggregate Groups listed above consist of the following Classes:

Aggregate Group I	MB, VM and MZ
Aggregate Group II	HL and HM

See "-Decrement Tables" below for the percentages of original principal balances of the individual Classes included in the Aggregate Groups that would be outstanding at various *constant* PSA rates, including the upper and lower bands of the applicable Structuring Ranges, based on the Pricing Assumptions.

**We cannot assure you that the balance of any Aggregate Group will conform on any Distribution Date to the balance specified in the Principal Balance Schedules or that distributions of principal of any Aggregate Group will begin or end on the Distribution Dates specified in the Principal Balance Schedules.**

If you are considering the purchase of a PAC Class, you should first take into account the considerations set forth below.

- We will distribute any excess of principal distributions over the amount necessary to reduce an Aggregate Group to its scheduled balance in any month. As a result, the likelihood of reducing an Aggregate Group to its scheduled balance each month will not be improved by the averaging of high and low principal distributions from month to month.
- Even if the related Mortgage Loans prepay at rates falling within the applicable Structuring Range or Effective Range, principal distributions may be insufficient to reduce the Aggregate Groups to their scheduled balances each month if prepayments do not occur at a *constant* PSA rate.
- The actual Effective Ranges at any time will be based upon the actual characteristics of the related Mortgage Loans at that time, which are likely to vary (and may vary considerably) from the Pricing Assumptions. As a result, the actual Effective Ranges will likely differ from the Initial Effective Ranges specified above. For the same reason, the Aggregate Groups might not be reduced to their scheduled balances each month even if the related Mortgage Loans prepay at a *constant* PSA rate within the applicable Initial Effective Ranges. This is so particularly if the rates fall at the lower or higher end of the applicable ranges.
- The actual Effective Ranges may narrow, widen or shift upward or downward to reflect actual prepayment experience over time.
- The principal payment stability of each Aggregate Group having scheduled balances will be supported by one or more other Classes. When the related supporting Class or Classes are retired, the Aggregate Group receiving the benefit of that support, if still outstanding, may no longer have an Effective Range, and will be much more sensitive to prepayments of the related Mortgage Loans.

## Yield Tables and Additional Yield Considerations

*General.* The tables below illustrate the sensitivity of the pre-tax corporate bond equivalent yields to maturity of the applicable Classes to various constant percentages of PSA and, where specified, to changes in the Index. **The tables below are provided for illustrative purposes only and are not intended as a forecast or prediction of the actual yields on the applicable Classes.** We calculated the yields set forth in the tables by

- determining the monthly discount rates that, when applied to the assumed streams of cash flows to be paid on the applicable Classes, would cause the discounted present values of the assumed streams of cash flows to equal the assumed aggregate purchase prices of those Classes, and
- converting the monthly rates to corporate bond equivalent rates.

These calculations do not take into account variations in the interest rates at which you could reinvest distributions on the Certificates. Accordingly, these calculations do not illustrate the return on any investment in the Certificates when reinvestment rates are taken into account.

We cannot assure you that

- the pre-tax yields on the applicable Certificates will correspond to any of the pre-tax yields shown here, or
- the aggregate purchase prices of the applicable Certificates will be as assumed.

In addition, it is unlikely that the Index will correspond to the levels shown here. Furthermore, because some of the Mortgage Loans are likely to have remaining terms to maturity shorter or longer than those assumed and interest rates higher or lower than those assumed, the notional principal balance reductions on the Certificates are likely to differ from those assumed. This would be the case even if all Mortgage Loans prepay at the indicated constant percentages of PSA. Moreover, it is unlikely that

- the Mortgage Loans will prepay at a constant PSA rate until maturity,
- all of the Mortgage Loans will prepay at the same rate, or
- the level of the Index will remain constant.

*The Inverse Floating Rate Classes.* **The yields on the Inverse Floating Rate Classes will be sensitive in varying degrees to the rate of principal payments (including prepayments) of the related Mortgage Loans and to the level of the Index. The Mortgage Loans generally can be prepaid at any time without penalty. In addition, the rate of principal payments (including prepayments) of the Mortgage Loans is likely to vary, and may vary considerably, from pool to pool. As illustrated in the applicable tables below, it is possible that investors in the Inverse Floating Rate Classes would lose money on their initial investments under certain Index and prepayment scenarios.**

Changes in the Index may not correspond to changes in prevailing mortgage interest rates. It is possible that lower prevailing mortgage interest rates, which might be expected to result in faster prepayments, could occur while the level of the Index increased.

The information shown in the following yield tables has been prepared on the basis of the Pricing Assumptions and the assumptions that

- the interest rates for the Inverse Floating Rate Classes for the initial Interest Accrual Period are the rates listed in the table under "Summary-Interest Rates" in this prospectus supplement and for each following Interest Accrual Period will be based on the specified levels of the Index, and
- the aggregate purchase prices of those Classes (expressed in each case as a percentage of original principal balance) are as follows:

<u>Class</u>	<u>Price*</u>
LS .....	10.28230%
SM .....	15.12500%
GS .....	13.50000%
SH .....	13.50000%

SK .....	13.50000%
SN .....	13.78125%

\* The prices do not include accrued interest. Accrued interest has been added to the prices in calculating the yields set forth in the tables below.

In the following yield tables, the symbol \* is used to represent a yield of less than (99.9)%.

**Sensitivity of the LS Class to Prepayments and LIBOR  
(Pre-Tax Yields to Maturity)**

<u>LIBOR</u>	<u>PSA Prepayment Assumption</u>					
	<u>50%</u>	<u>100%</u>	<u>250%</u>	<u>536%</u>	<u>1100%</u>	<u>1700%</u>
0.509% .....	54.6%	52.3%	45.5%	32.3%	5.2%	(26.6)%
1.509% .....	43.1%	40.8%	33.7%	19.8%	(8.7)%	(42.2)%
2.509% .....	31.9%	29.5%	22.0%	7.4%	(23.0)%	(58.8)%
4.509% .....	9.6%	6.9%	(1.4)%	(18.0)%	(54.4)%	(98.6)%
5.950% .....	*	*	*	*	*	*

**Sensitivity of the SM Class to Prepayments and LIBOR  
(Pre-Tax Yields to Maturity)**

<u>LIBOR</u>	<u>PSA Prepayment Assumption</u>						
	<u>50%</u>	<u>100%</u>	<u>125%</u>	<u>175%</u>	<u>225%</u>	<u>500%</u>	<u>800%</u>
0.504% .....	34.1%	31.0%	29.5%	26.4%	23.3%	5.2%	(16.4)%
1.504% .....	26.6%	23.6%	22.1%	19.0%	15.9%	(2.1)%	(23.9)%
2.504% .....	19.3%	16.3%	14.7%	11.7%	8.6%	(9.5)%	(31.3)%
4.504% .....	3.9%	0.9%	(0.6)%	(3.6)%	(6.7)%	(24.6)%	(46.6)%
6.050% .....	*	*	*	*	*	*	*

**Sensitivity of the GS Class to Prepayments and LIBOR  
(Pre-Tax Yields to Maturity)**

<u>LIBOR</u>	<u>PSA Prepayment Assumption</u>					
	<u>50%</u>	<u>100%</u>	<u>220%</u>	<u>400%</u>	<u>800%</u>	<u>1200%</u>
0.504% .....	39.5%	36.7%	29.9%	19.3%	(6.0)%	(34.4)%
1.504% .....	31.1%	28.3%	21.4%	10.7%	(15.1)%	(44.2)%
2.504% .....	22.7%	19.9%	12.9%	2.1%	(24.2)%	(54.3)%
4.504% .....	5.7%	2.8%	(4.3)%	(15.4)%	(42.9)%	(76.0)%
6.050% .....	*	*	*	*	*	*

**Sensitivity of the SH Class to Prepayments and LIBOR  
(Pre-Tax Yields to Maturity)**

<u>LIBOR</u>	<u>PSA Prepayment Assumption</u>						
	<u>50%</u>	<u>100%</u>	<u>175%</u>	<u>209%</u>	<u>300%</u>	<u>600%</u>	<u>1200%</u>
0.504% .....	40.3%	37.8%	34.1%	32.5%	27.9%	12.5%	(20.3)%
1.504% .....	31.8%	29.3%	25.5%	23.7%	19.0%	3.0%	(31.3)%
2.504% .....	23.4%	20.8%	16.9%	15.1%	10.2%	(6.5)%	(42.7)%
4.504% .....	6.3%	3.5%	(0.7)%	(2.6)%	(7.8)%	(26.1)%	(68.3)%
6.050% .....	*	*	*	*	*	*	*

**Sensitivity of the SK Class to Prepayments and LIBOR  
(Pre-Tax Yields to Maturity)**

<u>LIBOR</u>	<u>PSA Prepayment Assumption</u>						
	<u>50%</u>	<u>100%</u>	<u>175%</u>	<u>209%</u>	<u>300%</u>	<u>600%</u>	<u>1200%</u>
0.504% .....	40.3%	37.8%	34.1%	32.5%	27.9%	12.5%	(20.3)%
1.504% .....	31.8%	29.3%	25.5%	23.7%	19.0%	3.0%	(31.3)%
2.504% .....	23.4%	20.8%	16.9%	15.1%	10.2%	(6.5)%	(42.7)%
4.504% .....	6.3%	3.5%	(0.7)%	(2.6)%	(7.8)%	(26.1)%	(68.3)%
6.050% .....	*	*	*	*	*	*	*

**Sensitivity of the SN Class to Prepayments and LIBOR  
(Pre-Tax Yields to Maturity)**

<u>LIBOR</u>	<u>PSA Prepayment Assumption</u>					
	<u>50%</u>	<u>100%</u>	<u>207%</u>	<u>400%</u>	<u>800%</u>	<u>1200%</u>
0.504% .....	32.7%	29.2%	21.5%	6.7%	(28.0)%	(72.7)%
1.504% .....	24.2%	20.8%	13.3%	(0.9)%	(34.5)%	(77.7)%
2.504% .....	15.5%	12.3%	5.0%	(8.7)%	(41.1)%	(82.9)%
4.504% .....	(4.1)%	(7.1)%	(13.7)%	(26.3)%	(56.0)%	(94.6)%
6.100% .....	*	*	*	*	*	*

*The SA Class.* The yield to investors in the SA Class will be very sensitive to the rate of principal payments (including prepayments) of the Hybrid ARM Loans and to the level of LIBOR. The yield will also be sensitive to the weighted average interest rate of the Hybrid ARM Loans. Except as described under "Description of the Certificates-The ARM MBS" in this prospectus supplement, the Hybrid ARM Loans can be prepaid at any time without penalty. In addition, the rate of principal payments (including prepayments) of the Hybrid ARM Loans is likely to vary, and may vary considerably, from pool to pool. Under certain high prepayment or high LIBOR scenarios, in particular, it is possible that investors in the SA Class would lose money on their initial investments.

*The Fixed Rate Interest Only Classes.* The yields to investors on the Fixed Rate Interest Only Classes will be very sensitive to the rate of principal payments (including prepayments) of the related Mortgage Loans. The Mortgage Loans generally can be prepaid at any time without penalty. On the basis of the assumptions described below, the yield to maturity on each Fixed Rate Interest Only Class would be 0% if prepayments of the related Mortgage Loans were to occur at the following constant rates:

<u>Class</u>	<u>%PSA</u>
IQ .....	270%
QI .....	238%
MI .....	323%

**For any Fixed Rate Interest Only Class, if the actual prepayment rate of the related Mortgage Loans were to exceed the level specified for as little as one month while equaling that level for the remaining months, the investors in the applicable Class would lose money on their initial investments.**

The information shown in the following yield tables has been prepared on the basis of the Pricing Assumptions and the assumption that the aggregate purchase prices of the Fixed Rate Interest Only Classes (expressed in each case as a percentage of the original principal balance) are as follows:

<u>Class</u>	<u>Price*</u>
IQ .....	24.15625%
QI .....	15.50000%
MI .....	20.12500%

\* The prices do not include accrued interest. Accrued interest has been added to the prices in calculating the yields set forth in the tables below.

### Sensitivity of the IQ Class to Prepayments

	PSA Prepayment Assumption				
	<u>50%</u>	<u>100%</u>	<u>209%</u>	<u>400%</u>	<u>800%</u>
Pre-Tax Yields to Maturity .....	13.3%	10.4%	3.8%	(8.3)%	(36.5)%

### Sensitivity of the QI Class to Prepayments

	PSA Prepayment Assumption				
	<u>50%</u>	<u>100%</u>	<u>209%</u>	<u>400%</u>	<u>800%</u>
Pre-Tax Yields to Maturity .....	22.3%	17.2%	3.9%	(23.0)%	(75.4)%

### Sensitivity of the MI Class to Prepayments

	PSA Prepayment Assumption						
	<u>50%</u>	<u>100%</u>	<u>125%</u>	<u>175%</u>	<u>225%</u>	<u>500%</u>	<u>800%</u>
Pre-Tax Yields to Maturity .....	14.0%	9.0%	7.0%	7.0%	7.0%	(15.7)%	(45.5)%

### Weighted Average Lives of the Certificates

For a description of how the weighted average life of a Certificate is determined, see "Yield, Maturity and Prepayment Considerations-Weighted Average Lives and Final Distribution Dates" in the REMIC Prospectus.

In general, the weighted average lives of the Certificates will be shortened if the level of prepayments of principal of the related Mortgage Loans increases. However, the weighted average lives will depend upon a variety of other factors, including

- the timing of changes in the rate of principal distributions,
- the priority sequences of distributions of principal of the Group 2, Group 3, Group 4, Group 5, Group 7, Group 8, Group 11 and Group 12 Classes, and
- in the case of the Group 3, Group 9 and Group 12 Classes, the applicable priority sequences governing principal payments on the related Underlying REMIC and RCR Certificates.

See "-Distributions of Principal" above and "Description of the Certificates-Distributions of Principal" in the Underlying REMIC Disclosure Documents.

The effect of these factors may differ as to various Classes and the effects on any Class may vary at different times during the life of that Class. Accordingly, we can give no assurance as to the weighted average life of any Class. Further, to the extent the prices of the Certificates represent discounts or premiums to their original principal balances, variability in the weighted average lives of those Classes of Certificates could result in variability in the related yields to maturity. For an example of how the weighted average lives of the Classes may be affected at various constant prepayment rates, see the Decrement Tables below.

### Decrement Tables

The following tables indicate the percentages of original principal balances of the specified Classes that would be outstanding after each date shown at various constant PSA or CPR rates, as applicable, and the corresponding weighted average lives of those Classes. The tables have been prepared on the basis of the Pricing Assumptions.

In the case of the information set forth for each Class (other than the Group 6 Classes) under 0% PSA, however, we assumed that the Mortgage Loans have the original and remaining terms to maturity and bear interest at the annual rates specified in the table below.

<u>Mortgage Loans Backing Trust Assets Specified Below</u>	<u>Original Terms to Maturity</u>	<u>Remaining Terms to Maturity</u>	<u>Interest Rates</u>
Group 1 MBS	360 months	360 months	8.50%
Group 2 MBS	360 months	360 months	5.50%

Group 3 Underlying REMIC and RCR Certificates	360 months	(1)	6.50%
Group 4 MBS	360 months	360 months	6.50%
Group 5 MBS	360 months	360 months	6.50%
Group 7 MBS	360 months	360 months	7.00%
Group 8 MBS	360 months	360 months	7.00%
Group 9 Underlying REMIC and RCR Certificates	360 months	(2)	8.00%
Group 10 MBS	360 months	360 months	7.00%
Group 11 MBS	360 months	360 months	8.00%
Group 12 Underlying REMIC and RCR Certificates	360 months	(3)	7.00%

- (1) The Mortgage Loans backing the Group 3 Underlying REMIC and RCR Certificates listed below are assumed to have the following remaining terms to maturity :

<u>Class</u>	<u>Remaining Terms to Maturity</u>
2018-47-KL	352 months
2018-47-MY	352 months
2018-60-MY	*
2018-65-BV	354 months
2018-65-PV	354 months
2018-65-VB	354 months
2018-65-VP	354 months
2018-65-ZL	354 months
2018-75-ML	355 months

\* The Class 2018-60-MY REMIC Certificate is backed by the Fannie Mae RCR certificates listed below. The Mortgage Loans backing those certificates are assumed to have the following remaining terms to maturity:

<u>Class</u>	<u>Remaining Terms to Maturity</u>
2017-94-BE	344 months
2017-94-BI	344 months
2017-94-BK	344 months
2017-94-IN	344 months
2017-94-PI	344 months
2018-37-JL	351 months

- (2) The Mortgage Loans backing the Group 9 Underlying REMIC and RCR Certificates listed below are assumed to have the following remaining terms to maturity :

<u>Class</u>	<u>Remaining Terms to Maturity</u>
2006-46-PH	207 months
2006-106-PD	212 months
2009-20-GP	*

\* The Class 2009-20-GP RCR Certificate is backed by the Fannie Mae REMIC certificate listed below. The Mortgage Loans backing those certificates are assumed to have the following remaining terms to maturity:

<u>Class</u>	<u>Remaining Terms to Maturity</u>
2006-44-OH	207 months

- (3) The Mortgage Loans backing the Group 12 Underlying REMIC and RCR Certificates listed below are assumed to have the following remaining terms to maturity :

<u>Class</u>	<u>Remaining Terms to Maturity</u>
2018-22-MG	349 months
2018-24-BC	349 months



2018-31-BP	350 months
2018-73-MA	355 months

It is unlikely that all of the Mortgage Loans will have the loan ages, interest rates or remaining terms to maturity assumed, or that the Mortgage Loans will prepay at any *constant* PSA or CPR level, as applicable.

In addition, the diverse remaining terms to maturity of the Mortgage Loans could produce slower or faster principal distributions than indicated in the tables at the specified constant PSA or CPR rates, as applicable, even if the weighted average remaining term to maturity and the weighted average loan age of the Mortgage Loans are identical to the weighted averages specified in the Pricing Assumptions. This is the case because pools of loans with identical weighted averages are nonetheless likely to reflect differing dispersions of the related characteristics.

## Percent of Original Principal Balances Outstanding

Date	LF, LS† and LA Classes						EA Class					
	PSA Prepayment Assumption						PSA Prepayment Assumption					
	0%	100%	250%	536%	1100%	1700%	0%	100%	250%	396%	800%	1200%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100
February 2020	99	97	95	91	82	73	98	95	92	88	77	67
February 2021	98	92	85	71	46	23	97	89	78	68	44	23
February 2022	98	86	72	48	16	0	95	81	64	49	19	2
February 2023	97	80	60	32	5	0	93	74	52	35	7	0
February 2024	95	74	50	21	2	0	91	67	42	25	1	0
February 2025	94	68	42	14	1	0	89	61	34	17	0	0
February 2026	93	63	35	10	*	0	87	55	27	11	0	0
February 2027	92	58	29	6	*	0	85	50	21	6	0	0
February 2028	90	53	24	4	*	0	82	45	16	3	0	0
February 2029	89	49	20	3	*	0	80	40	12	*	0	0
February 2030	87	45	17	2	*	0	77	35	8	0	0	0
February 2031	85	41	14	1	*	0	74	31	5	0	0	0
February 2032	83	37	11	1	*	0	72	27	3	0	0	0
February 2033	81	34	9	1	*	0	68	23	1	0	0	0
February 2034	78	31	8	*	*	0	65	20	0	0	0	0
February 2035	75	28	6	*	*	0	62	17	0	0	0	0
February 2036	72	25	5	*	*	0	58	14	0	0	0	0
February 2037	69	22	4	*	0	0	54	11	0	0	0	0
February 2038	66	20	3	*	0	0	50	8	0	0	0	0
February 2039	62	17	3	*	0	0	46	5	0	0	0	0
February 2040	58	15	2	*	0	0	41	3	0	0	0	0
February 2041	53	13	2	*	0	0	37	1	0	0	0	0
February 2042	49	11	1	*	0	0	32	0	0	0	0	0
February 2043	43	9	1	*	0	0	26	0	0	0	0	0
February 2044	37	7	1	*	0	0	21	0	0	0	0	0
February 2045	31	6	*	*	0	0	15	0	0	0	0	0
February 2046	24	4	*	*	0	0	9	0	0	0	0	0
February 2047	17	3	*	*	0	0	2	0	0	0	0	0
February 2048	9	1	*	*	0	0	0	0	0	0	0	0
February 2049	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)**	20.8	11.4	6.5	3.6	2.0	1.5	17.6	9.0	5.1	3.5	2.0	1.4

Date	EZ Class						AU Class				
	PSA Prepayment Assumption						PSA Prepayment Assumption				
	0%	100%	250%	396%	800%	1200%	0%	100%	250%	399%	800%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100
February 2020	103	103	103	103	103	103	0	0	0	0	0
February 2021	106	106	106	106	106	106	0	0	0	0	0
February 2022	109	109	109	109	109	109	0	0	0	0	0
February 2023	113	113	113	113	113	43	0	0	0	0	0
February 2024	116	116	116	116	116	12	0	0	0	0	0
February 2025	120	120	120	120	65	3	0	0	0	0	0
February 2026	123	123	123	123	33	1	0	0	0	0	0
February 2027	127	127	127	127	17	*	0	0	0	0	0
February 2028	131	131	131	131	8	*	0	0	0	0	0
February 2029	135	135	135	135	4	*	0	0	0	0	0
February 2030	139	139	139	100	2	*	0	0	0	0	0
February 2031	143	143	143	74	1	*	0	0	0	0	0
February 2032	148	148	148	54	1	*	0	0	0	0	0
February 2033	152	152	152	39	*	*	0	0	0	0	0
February 2034	157	157	133	29	*	*	0	0	0	0	0
February 2035	162	162	107	21	*	*	0	0	0	0	0
February 2036	166	166	86	15	*	*	0	0	0	0	0
February 2037	171	171	68	11	*	0	0	0	0	0	0
February 2038	177	177	54	7	*	0	0	0	0	0	0
February 2039	182	182	42	5	*	0	0	0	0	0	0
February 2040	188	188	33	4	*	0	0	0	0	0	0
February 2041	193	193	25	2	*	0	0	0	0	0	0
February 2042	199	173	19	2	*	0	0	0	0	0	0
February 2043	205	139	14	1	*	0	0	0	0	0	0
February 2044	212	108	9	1	*	0	0	0	0	0	0
February 2045	218	79	6	*	*	0	0	0	0	0	0
February 2046	225	53	4	*	*	0	0	0	0	0	0
February 2047	231	28	2	*	*	0	0	0	0	0	0
February 2048	139	5	*	*	0	0	0	0	0	0	0
February 2049	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)**	29.2	25.5	18.5	13.2	6.6	4.1	0.5	0.5	0.5	0.5	0.5

\* Indicates an outstanding balance greater than 0% and less than 0.5% of the original principal balance.

\*\* Determined as specified under "Yield, Maturity and Prepayment Considerations - Weighted Average Lives and Final Distribution Dates" in the REMIC Prospectus.

† In the case of a Notional Class, the Decrement Table indicates the percentage of the original notional principal balance outstanding.

Date	AM Class					ZA Class				
	PSA Prepayment Assumption					PSA Prepayment Assumption				
	0%	100%	250%	399%	800%	0%	100%	250%	399%	800%
Initial Percent	100	100	100	100	100	100	100	100	100	100
February 2020	100	100	100	100	100	104	104	104	104	104
February 2021	98	98	98	98	98	107	107	107	107	107
February 2022	96	96	96	96	86	111	111	111	111	111
February 2023	95	95	95	95	32	115	115	115	115	115
February 2024	93	93	93	92	0	119	119	119	119	94
February 2025	91	91	90	80	0	123	123	123	123	47
February 2026	89	89	82	63	0	128	128	128	128	23
February 2027	87	87	73	26	0	132	132	132	132	11
February 2028	85	85	49	2	0	137	137	137	137	6
February 2029	83	78	18	0	0	142	142	142	103	3
February 2030	80	70	0	0	0	147	147	141	76	1
February 2031	78	55	0	0	0	152	152	109	55	1
February 2032	76	37	0	0	0	158	158	84	40	*
February 2033	73	9	0	0	0	163	163	65	29	*
February 2034	70	0	0	0	0	169	130	50	21	*
February 2035	68	0	0	0	0	175	84	38	14	*
February 2036	65	0	0	0	0	181	41	28	10	*
February 2037	62	0	0	0	0	188	21	21	7	*
February 2038	59	0	0	0	0	194	15	15	5	*
February 2039	55	0	0	0	0	201	11	11	4	*
February 2040	48	0	0	0	0	208	8	8	3	*
February 2041	38	0	0	0	0	216	6	6	2	*
February 2042	27	0	0	0	0	223	4	4	1	*
February 2043	3	0	0	0	0	231	3	3	1	*
February 2044	0	0	0	0	0	163	2	2	*	*
February 2045	0	0	0	0	0	72	1	1	*	*
February 2046	0	0	0	0	0	1	1	1	*	0
February 2047	0	0	0	0	0	*	*	*	*	0
February 2048	0	0	0	0	0	*	*	*	*	0
February 2049	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)**	17.7	11.4	8.5	7.0	3.7	25.5	16.5	14.5	12.2	6.1

Date	AY Class					AT Class				
	PSA Prepayment Assumption					PSA Prepayment Assumption				
	0%	100%	250%	399%	800%	0%	100%	250%	399%	800%
Initial Percent	100	100	100	100	100	100	100	100	100	100
February 2020	100	100	100	100	100	98	98	98	98	98
February 2021	100	100	100	100	100	97	97	97	97	97
February 2022	100	100	100	100	93	95	95	95	95	85
February 2023	100	100	100	100	57	93	93	93	93	31
February 2024	100	100	100	99	29	92	92	92	90	0
February 2025	100	100	100	93	15	90	90	89	79	0
February 2026	100	100	95	83	7	88	88	81	62	0
February 2027	100	100	91	59	4	86	86	72	26	0
February 2028	100	100	75	43	2	84	84	48	2	0
February 2029	100	97	56	32	1	81	77	18	0	0
February 2030	100	93	43	23	*	79	69	0	0	0
February 2031	100	84	34	17	*	77	54	0	0	0
February 2032	100	74	26	12	*	74	36	0	0	0
February 2033	100	56	20	9	*	72	9	0	0	0
February 2034	100	40	15	6	*	69	0	0	0	0
February 2035	100	26	12	4	*	67	0	0	0	0
February 2036	100	13	9	3	*	64	0	0	0	0
February 2037	100	6	6	2	*	61	0	0	0	0
February 2038	100	5	5	2	*	58	0	0	0	0
February 2039	99	3	3	1	*	54	0	0	0	0
February 2040	97	3	3	1	*	47	0	0	0	0
February 2041	92	2	2	1	*	37	0	0	0	0
February 2042	87	1	1	*	*	27	0	0	0	0
February 2043	74	1	1	*	*	3	0	0	0	0
February 2044	50	1	1	*	*	0	0	0	0	0
February 2045	22	*	*	*	*	0	0	0	0	0
February 2046	*	*	*	*	0	0	0	0	0	0
February 2047	*	*	*	*	0	0	0	0	0	0
February 2048	*	*	*	*	0	0	0	0	0	0
February 2049	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)**	24.7	14.6	11.5	9.4	4.6	17.5	11.2	8.4	6.9	3.7

\* Indicates an outstanding balance greater than 0% and less than 0.5% of the original principal balance.

\*\* Determined as specified under "Yield, Maturity and Prepayment Considerations - Weighted Average Lives and Final Distribution Dates" in the REMIC Prospectus.

Date	DA Class					DV Class				
	PSA Prepayment Assumption					PSA Prepayment Assumption				
	0%	100%	197%	400%	800%	0%	100%	197%	400%	800%
Initial Percent	100	100	100	100	100	100	100	100	100	100
February 2020	98	94	90	82	66	91	91	91	91	91
February 2021	97	84	74	54	19	82	82	82	82	82
February 2022	95	74	58	28	0	72	72	72	72	0
February 2023	93	65	44	9	0	62	62	62	62	0
February 2024	91	56	31	0	0	51	51	51	0	0
February 2025	88	47	20	0	0	40	40	40	0	0
February 2026	86	40	11	0	0	28	28	28	0	0
February 2027	83	32	3	0	0	16	16	16	0	0
February 2028	81	26	0	0	0	4	4	0	0	0
February 2029	78	19	0	0	0	0	0	0	0	0
February 2030	74	13	0	0	0	0	0	0	0	0
February 2031	71	8	0	0	0	0	0	0	0	0
February 2032	68	2	0	0	0	0	0	0	0	0
February 2033	64	0	0	0	0	0	0	0	0	0
February 2034	60	0	0	0	0	0	0	0	0	0
February 2035	55	0	0	0	0	0	0	0	0	0
February 2036	51	0	0	0	0	0	0	0	0	0
February 2037	46	0	0	0	0	0	0	0	0	0
February 2038	40	0	0	0	0	0	0	0	0	0
February 2039	35	0	0	0	0	0	0	0	0	0
February 2040	29	0	0	0	0	0	0	0	0	0
February 2041	22	0	0	0	0	0	0	0	0	0
February 2042	16	0	0	0	0	0	0	0	0	0
February 2043	8	0	0	0	0	0	0	0	0	0
February 2044	*	0	0	0	0	0	0	0	0	0
February 2045	0	0	0	0	0	0	0	0	0	0
February 2046	0	0	0	0	0	0	0	0	0	0
February 2047	0	0	0	0	0	0	0	0	0	0
February 2048	0	0	0	0	0	0	0	0	0	0
February 2049	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)**	15.8	6.1	3.8	2.2	1.3	5.0	5.0	4.9	3.7	2.3

Date	VD Class					DZ Class				
	PSA Prepayment Assumption					PSA Prepayment Assumption				
	0%	100%	197%	400%	800%	0%	100%	197%	400%	800%
Initial Percent	100	100	100	100	100	100	100	100	100	100
February 2020	100	100	100	100	100	104	104	104	104	104
February 2021	100	100	100	100	100	108	108	108	108	108
February 2022	100	100	100	100	61	113	113	113	113	113
February 2023	100	100	100	100	0	117	117	117	117	85
February 2024	100	100	100	96	0	122	122	122	122	44
February 2025	100	100	100	31	0	127	127	127	127	22
February 2026	100	100	100	0	0	132	132	132	115	11
February 2027	100	100	100	0	0	138	138	138	85	6
February 2028	100	100	78	0	0	143	143	143	63	3
February 2029	95	95	38	0	0	149	149	149	46	1
February 2030	89	89	1	0	0	155	155	155	34	1
February 2031	82	82	0	0	0	161	161	133	25	*
February 2032	74	74	0	0	0	168	168	113	18	*
February 2033	67	53	0	0	0	175	175	95	13	*
February 2034	59	19	0	0	0	182	182	80	10	*
February 2035	51	0	0	0	0	189	178	67	7	*
February 2036	42	0	0	0	0	197	158	56	5	*
February 2037	33	0	0	0	0	205	140	46	4	*
February 2038	24	0	0	0	0	214	122	38	3	*
February 2039	14	0	0	0	0	222	106	31	2	*
February 2040	4	0	0	0	0	231	91	25	1	*
February 2041	0	0	0	0	0	235	77	20	1	*
February 2042	0	0	0	0	0	235	64	15	1	*
February 2043	0	0	0	0	0	235	52	12	*	*
February 2044	0	0	0	0	0	235	40	9	*	*
February 2045	0	0	0	0	0	196	30	6	*	*
February 2046	0	0	0	0	0	152	20	4	*	*
February 2047	0	0	0	0	0	104	11	2	*	*
February 2048	0	0	0	0	0	54	3	*	*	0
February 2049	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)**	15.9	13.6	9.7	5.7	3.1	27.7	21.4	16.4	9.9	5.1

\* Indicates an outstanding balance greater than 0% and less than 0.5% of the original principal balance.

\*\* Determined as specified under "Yield, Maturity and Prepayment Considerations - Weighted Average Lives and Final Distribution Dates" in the REMIC Prospectus.

Date	DY Class					K Class				
	PSA Prepayment Assumption					PSA Prepayment Assumption				
	0%	100%	197%	400%	800%	0%	100%	205%	400%	800%
Initial Percent	100	100	100	100	100	100	100	100	100	100
February 2020	100	100	100	100	100	90	68	50	15	0
February 2021	100	100	100	100	100	80	18	0	0	0
February 2022	100	100	100	100	71	69	0	0	0	0
February 2023	100	100	100	100	36	57	0	0	0	0
February 2024	100	100	100	89	19	45	0	0	0	0
February 2025	100	100	100	66	9	32	0	0	0	0
February 2026	100	100	100	49	5	18	0	0	0	0
February 2027	100	100	100	36	2	2	0	0	0	0
February 2028	100	100	91	27	1	0	0	0	0	0
February 2029	100	100	78	20	1	0	0	0	0	0
February 2030	100	100	66	15	*	0	0	0	0	0
February 2031	100	100	56	11	*	0	0	0	0	0
February 2032	100	100	48	8	*	0	0	0	0	0
February 2033	100	95	40	6	*	0	0	0	0	0
February 2034	100	85	34	4	*	0	0	0	0	0
February 2035	100	76	29	3	*	0	0	0	0	0
February 2036	100	67	24	2	*	0	0	0	0	0
February 2037	100	59	20	2	*	0	0	0	0	0
February 2038	100	52	16	1	*	0	0	0	0	0
February 2039	100	45	13	1	*	0	0	0	0	0
February 2040	100	39	11	1	*	0	0	0	0	0
February 2041	100	33	8	*	*	0	0	0	0	0
February 2042	100	27	7	*	*	0	0	0	0	0
February 2043	100	22	5	*	*	0	0	0	0	0
February 2044	100	17	4	*	*	0	0	0	0	0
February 2045	83	13	3	*	*	0	0	0	0	0
February 2046	65	9	2	*	*	0	0	0	0	0
February 2047	44	5	1	*	0	0	0	0	0	0
February 2048	23	1	*	*	0	0	0	0	0	0
February 2049	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)**	27.7	20.0	14.1	7.9	4.0	4.5	1.4	1.0	0.7	0.4

Date	KC Class					VK Class				
	PSA Prepayment Assumption					PSA Prepayment Assumption				
	0%	100%	205%	400%	800%	0%	100%	205%	400%	800%
Initial Percent	100	100	100	100	100	100	100	100	100	100
February 2020	100	100	100	100	87	93	93	93	93	93
February 2021	100	100	91	69	26	85	85	85	85	85
February 2022	100	90	68	32	0	77	77	77	77	0
February 2023	100	77	48	4	0	69	69	69	69	0
February 2024	100	65	30	0	0	60	60	60	1	0
February 2025	100	54	15	0	0	51	51	51	0	0
February 2026	100	43	2	0	0	42	42	42	0	0
February 2027	100	33	0	0	0	33	33	0	0	0
February 2028	97	24	0	0	0	23	23	0	0	0
February 2029	93	15	0	0	0	12	12	0	0	0
February 2030	89	7	0	0	0	1	1	0	0	0
February 2031	84	0	0	0	0	0	0	0	0	0
February 2032	79	0	0	0	0	0	0	0	0	0
February 2033	74	0	0	0	0	0	0	0	0	0
February 2034	68	0	0	0	0	0	0	0	0	0
February 2035	63	0	0	0	0	0	0	0	0	0
February 2036	56	0	0	0	0	0	0	0	0	0
February 2037	50	0	0	0	0	0	0	0	0	0
February 2038	42	0	0	0	0	0	0	0	0	0
February 2039	35	0	0	0	0	0	0	0	0	0
February 2040	27	0	0	0	0	0	0	0	0	0
February 2041	18	0	0	0	0	0	0	0	0	0
February 2042	9	0	0	0	0	0	0	0	0	0
February 2043	0	0	0	0	0	0	0	0	0	0
February 2044	0	0	0	0	0	0	0	0	0	0
February 2045	0	0	0	0	0	0	0	0	0	0
February 2046	0	0	0	0	0	0	0	0	0	0
February 2047	0	0	0	0	0	0	0	0	0	0
February 2048	0	0	0	0	0	0	0	0	0	0
February 2049	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)**	17.4	6.6	4.1	2.6	1.6	6.0	6.0	5.3	3.8	2.4

\* Indicates an outstanding balance greater than 0% and less than 0.5% of the original principal balance.

\*\* Determined as specified under "Yield, Maturity and Prepayment Considerations - Weighted Average Lives and Final Distribution Dates" in the REMIC Prospectus.

Date	KZ Class					KD Class				
	PSA Prepayment Assumption					PSA Prepayment Assumption				
	0%	100%	205%	400%	800%	0%	100%	205%	400%	800%
Initial Percent	100	100	100	100	100	100	100	100	100	100
February 2020	104	104	104	104	104	92	82	73	57	50
February 2021	108	108	108	108	108	83	54	46	46	46
February 2022	113	113	113	113	107	74	42	42	42	0
February 2023	117	117	117	117	55	64	37	37	37	0
February 2024	122	122	122	122	28	53	33	33	1	0
February 2025	127	127	127	91	14	42	28	28	0	0
February 2026	132	132	132	68	7	31	23	23	0	0
February 2027	138	138	137	50	4	19	18	0	0	0
February 2028	143	143	117	37	2	12	12	0	0	0
February 2029	149	149	99	27	1	7	7	0	0	0
February 2030	155	155	84	20	*	1	1	0	0	0
February 2031	156	154	71	15	*	0	0	0	0	0
February 2032	156	139	60	11	*	0	0	0	0	0
February 2033	156	125	51	8	*	0	0	0	0	0
February 2034	156	113	42	6	*	0	0	0	0	0
February 2035	156	101	35	4	*	0	0	0	0	0
February 2036	156	89	29	3	*	0	0	0	0	0
February 2037	156	79	24	2	*	0	0	0	0	0
February 2038	156	69	20	1	*	0	0	0	0	0
February 2039	156	60	16	1	*	0	0	0	0	0
February 2040	156	52	13	1	*	0	0	0	0	0
February 2041	156	44	10	1	*	0	0	0	0	0
February 2042	156	37	8	*	*	0	0	0	0	0
February 2043	154	30	6	*	*	0	0	0	0	0
February 2044	132	23	4	*	*	0	0	0	0	0
February 2045	109	17	3	*	*	0	0	0	0	0
February 2046	84	12	2	*	*	0	0	0	0	0
February 2047	58	7	1	*	0	0	0	0	0	0
February 2048	30	2	*	*	0	0	0	0	0	0
February 2049	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)**	27.2	18.9	13.6	8.3	4.4	5.3	3.9	3.3	2.4	1.5

Date	FA and SA† Classes						IQ† Class				
	CPR Prepayment Assumption						PSA Prepayment Assumption				
	0%	5%	15%	25%	50%	75%	0%	100%	209%	400%	800%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100
February 2020	96	91	81	72	48	24	99	95	92	85	72
February 2021	91	83	66	51	23	6	98	88	80	65	39
February 2022	87	74	53	37	11	1	97	81	68	49	20
February 2023	82	67	43	26	5	*	95	75	58	36	10
February 2024	77	60	34	18	2	*	94	69	50	27	5
February 2025	72	53	27	13	1	*	93	63	43	20	3
February 2026	66	46	21	9	1	*	91	58	36	15	1
February 2027	60	40	16	6	*	*	89	53	31	11	1
February 2028	54	34	12	4	*	*	88	48	26	8	*
February 2029	47	28	9	3	*	*	86	44	22	6	*
February 2030	41	23	7	2	*	*	84	40	19	4	*
February 2031	34	18	5	1	*	0	82	36	16	3	*
February 2032	26	13	3	1	*	0	79	32	13	2	*
February 2033	18	9	2	*	*	0	77	29	11	2	*
February 2034	10	5	1	*	*	0	74	26	9	1	*
February 2035	4	2	*	*	*	0	71	23	8	1	*
February 2036	1	1	*	*	*	0	68	20	6	1	*
February 2037	*	*	*	*	0	0	65	18	5	*	*
February 2038	0	0	0	0	0	0	61	15	4	*	*
February 2039	0	0	0	0	0	0	57	13	3	*	*
February 2040	0	0	0	0	0	0	53	11	2	*	*
February 2041	0	0	0	0	0	0	49	9	2	*	*
February 2042	0	0	0	0	0	0	44	7	1	*	*
February 2043	0	0	0	0	0	0	39	5	1	*	*
February 2044	0	0	0	0	0	0	34	4	1	*	*
February 2045	0	0	0	0	0	0	28	2	*	*	0
February 2046	0	0	0	0	0	0	22	1	*	*	0
February 2047	0	0	0	0	0	0	15	0	0	0	0
February 2048	0	0	0	0	0	0	8	0	0	0	0
February 2049	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)**	9.2	7.0	4.3	2.9	1.4	0.7	19.9	10.2	6.6	3.9	2.0

\* Indicates an outstanding balance greater than 0% and less than 0.5% of the original principal balance.

\*\* Determined as specified under "Yield, Maturity and Prepayment Considerations - Weighted Average Lives and Final Distribution Dates" in the REMIC Prospectus.

† In the case of a Notional Class, the Decrement Table indicates the percentage of the original notional principal balance outstanding.

Date	QA, QB and QT† Classes					VQ Class				
	PSA Prepayment Assumption					PSA Prepayment Assumption				
	0%	100%	209%	400%	800%	0%	100%	209%	400%	800%
Initial Percent	100	100	100	100	100	100	100	100	100	100
February 2020	99	93	89	80	62	93	93	93	93	93
February 2021	97	84	72	53	18	85	85	85	85	85
February 2022	96	75	57	30	0	77	77	77	77	0
February 2023	94	66	44	13	0	69	69	69	69	0
February 2024	92	58	32	1	0	60	60	60	60	0
February 2025	90	50	22	0	0	51	51	51	0	0
February 2026	88	43	14	0	0	42	42	42	0	0
February 2027	86	36	6	0	0	33	33	33	0	0
February 2028	83	30	0	0	0	23	23	21	0	0
February 2029	81	24	0	0	0	13	13	0	0	0
February 2030	78	18	0	0	0	2	2	0	0	0
February 2031	75	13	0	0	0	0	0	0	0	0
February 2032	72	8	0	0	0	0	0	0	0	0
February 2033	68	4	0	0	0	0	0	0	0	0
February 2034	65	0	0	0	0	0	0	0	0	0
February 2035	61	0	0	0	0	0	0	0	0	0
February 2036	57	0	0	0	0	0	0	0	0	0
February 2037	52	0	0	0	0	0	0	0	0	0
February 2038	47	0	0	0	0	0	0	0	0	0
February 2039	42	0	0	0	0	0	0	0	0	0
February 2040	36	0	0	0	0	0	0	0	0	0
February 2041	30	0	0	0	0	0	0	0	0	0
February 2042	24	0	0	0	0	0	0	0	0	0
February 2043	17	0	0	0	0	0	0	0	0	0
February 2044	10	0	0	0	0	0	0	0	0	0
February 2045	2	0	0	0	0	0	0	0	0	0
February 2046	0	0	0	0	0	0	0	0	0	0
February 2047	0	0	0	0	0	0	0	0	0	0
February 2048	0	0	0	0	0	0	0	0	0	0
February 2049	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)**	16.9	6.5	3.9	2.3	1.3	6.0	6.0	5.8	4.2	2.5

Date	QV Class					QZ Class				
	PSA Prepayment Assumption					PSA Prepayment Assumption				
	0%	100%	209%	400%	800%	0%	100%	209%	400%	800%
Initial Percent	100	100	100	100	100	100	100	100	100	100
February 2020	100	100	100	100	100	104	104	104	104	104
February 2021	100	100	100	100	100	107	107	107	107	107
February 2022	100	100	100	100	80	111	111	111	111	111
February 2023	100	100	100	100	0	115	115	115	115	77
February 2024	100	100	100	100	0	119	119	119	119	39
February 2025	100	100	100	54	0	123	123	123	123	20
February 2026	100	100	100	0	0	128	128	128	112	10
February 2027	100	100	100	0	0	132	132	132	83	5
February 2028	100	100	100	0	0	137	137	137	61	3
February 2029	100	100	51	0	0	142	142	142	45	1
February 2030	100	100	0	0	0	147	147	142	33	1
February 2031	92	92	0	0	0	152	152	119	24	*
February 2032	81	81	0	0	0	158	158	100	17	*
February 2033	70	70	0	0	0	163	163	83	13	*
February 2034	59	52	0	0	0	169	169	69	9	*
February 2035	47	0	0	0	0	175	173	57	7	*
February 2036	35	0	0	0	0	181	152	47	5	*
February 2037	22	0	0	0	0	188	133	38	3	*
February 2038	9	0	0	0	0	194	115	30	2	*
February 2039	0	0	0	0	0	199	98	24	2	*
February 2040	0	0	0	0	0	199	82	19	1	*
February 2041	0	0	0	0	0	199	67	14	1	*
February 2042	0	0	0	0	0	199	53	11	*	*
February 2043	0	0	0	0	0	199	40	7	*	*
February 2044	0	0	0	0	0	199	28	5	*	*
February 2045	0	0	0	0	0	199	17	3	*	*
February 2046	0	0	0	0	0	163	7	1	*	*
February 2047	0	0	0	0	0	112	0	0	0	0
February 2048	0	0	0	0	0	58	0	0	0	0
February 2049	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)**	15.7	14.5	10.1	6.1	3.2	28.2	21.1	15.8	9.9	4.9

\* Indicates an outstanding balance greater than 0% and less than 0.5% of the original principal balance.

\*\* Determined as specified under "Yield, Maturity and Prepayment Considerations - Weighted Average Lives and Final Distribution Dates" in the REMIC Prospectus.

† In the case of a Notional Class, the Decrement Table indicates the percentage of the original notional principal balance outstanding.

Date	FM and SM† Classes							MB, MI†, MC, MA, MD, ME and MG Classes						
	PSA Prepayment Assumption							PSA Prepayment Assumption						
	0%	100%	125%	175%	225%	500%	800%	0%	100%	125%	175%	225%	500%	800%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100
February 2020	99	95	94	92	91	81	71	98	93	92	92	92	92	81
February 2021	98	88	86	82	78	57	38	96	84	81	81	81	64	41
February 2022	97	81	78	72	66	39	19	94	75	71	71	71	42	17
February 2023	95	75	71	63	56	27	10	91	66	61	61	61	27	6
February 2024	94	69	64	55	47	18	5	89	58	52	52	52	16	0
February 2025	93	63	58	48	40	13	3	86	50	43	43	43	9	0
February 2026	91	58	52	42	34	9	1	83	42	35	35	35	4	0
February 2027	89	53	47	37	29	6	1	80	35	29	29	29	1	0
February 2028	88	49	42	32	24	4	*	77	29	23	23	23	0	0
February 2029	86	44	38	28	20	3	*	74	22	18	18	18	0	0
February 2030	84	40	34	24	17	2	*	70	16	14	14	14	0	0
February 2031	82	37	30	21	14	1	*	66	11	11	11	11	0	0
February 2032	79	33	27	18	12	1	*	62	8	8	8	8	0	0
February 2033	77	30	24	15	10	1	*	58	5	5	5	5	0	0
February 2034	74	27	21	13	8	*	*	53	3	3	3	3	0	0
February 2035	71	24	19	11	7	*	*	49	2	2	2	2	0	0
February 2036	68	21	16	9	5	*	*	43	*	*	*	*	0	0
February 2037	65	19	14	8	4	*	*	38	0	0	0	0	0	0
February 2038	61	16	12	7	3	*	*	32	0	0	0	0	0	0
February 2039	57	14	10	5	3	*	*	26	0	0	0	0	0	0
February 2040	53	12	9	4	2	*	*	19	0	0	0	0	0	0
February 2041	49	10	7	4	2	*	*	12	0	0	0	0	0	0
February 2042	44	8	6	3	1	*	*	4	0	0	0	0	0	0
February 2043	39	7	5	2	1	*	*	0	0	0	0	0	0	0
February 2044	34	5	3	2	1	*	*	0	0	0	0	0	0	0
February 2045	28	4	2	1	*	*	*	0	0	0	0	0	0	0
February 2046	22	2	2	1	*	*	0	0	0	0	0	0	0	0
February 2047	15	1	1	*	*	*	0	0	0	0	0	0	0	0
February 2048	8	0	0	0	0	0	0	0	0	0	0	0	0	0
February 2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)**	19.9	10.4	9.3	7.5	6.3	3.1	2.0	14.5	6.5	6.0	6.0	6.0	3.1	2.0

Date	VM Class							MZ Class						
	PSA Prepayment Assumption							PSA Prepayment Assumption						
	0%	100%	125%	175%	225%	500%	800%	0%	100%	125%	175%	225%	500%	800%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100
February 2020	94	94	94	94	94	94	94	104	104	104	104	104	104	104
February 2021	88	88	88	88	88	88	88	108	108	108	108	108	108	108
February 2022	81	81	81	81	81	81	81	113	113	113	113	113	113	113
February 2023	74	74	74	74	74	74	74	117	117	117	117	117	117	117
February 2024	67	67	67	67	67	67	55	122	122	122	122	122	122	122
February 2025	60	60	60	60	60	60	0	127	127	127	127	127	127	81
February 2026	52	52	52	52	52	52	0	132	132	132	132	132	132	41
February 2027	44	44	44	44	44	44	0	138	138	138	138	138	138	21
February 2028	35	35	35	35	35	0	0	143	143	143	143	143	127	11
February 2029	27	27	27	27	27	0	0	149	149	149	149	149	86	5
February 2030	18	18	18	18	18	0	0	155	155	155	155	155	58	3
February 2031	8	8	8	8	8	0	0	161	161	161	161	161	39	1
February 2032	0	0	0	0	0	0	0	167	167	167	167	167	26	1
February 2033	0	0	0	0	0	0	0	167	167	167	167	167	18	*
February 2034	0	0	0	0	0	0	0	167	167	167	167	167	12	*
February 2035	0	0	0	0	0	0	0	167	167	167	167	167	8	*
February 2036	0	0	0	0	0	0	0	167	167	167	167	167	5	*
February 2037	0	0	0	0	0	0	0	167	137	137	137	137	3	*
February 2038	0	0	0	0	0	0	0	167	110	110	110	110	2	*
February 2039	0	0	0	0	0	0	0	167	88	88	88	88	1	*
February 2040	0	0	0	0	0	0	0	167	69	69	69	69	1	*
February 2041	0	0	0	0	0	0	0	167	54	54	54	54	1	*
February 2042	0	0	0	0	0	0	0	167	41	41	41	41	*	*
February 2043	0	0	0	0	0	0	0	72	30	30	30	30	*	*
February 2044	0	0	0	0	0	0	0	21	21	21	21	21	*	*
February 2045	0	0	0	0	0	0	0	14	14	14	14	14	*	*
February 2046	0	0	0	0	0	0	0	8	8	8	8	8	*	*
February 2047	0	0	0	0	0	0	0	4	4	4	4	4	*	*
February 2048	0	0	0	0	0	0	0	0	0	0	0	0	0	0
February 2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)**	7.0	7.0	7.0	7.0	7.0	6.1	4.3	24.3	21.0	21.0	21.0	21.0	11.3	6.9

\* Indicates an outstanding balance greater than 0% and less than 0.5% of the original principal balance.

\*\* Determined as specified under "Yield, Maturity and Prepayment Considerations - Weighted Average Lives and Final Distribution Dates" in the REMIC Prospectus.

† In the case of a Notional Class, the Decrement Table indicates the percentage of the original notional principal balance outstanding.



Date	ZM Class							MY Class						
	PSA Prepayment Assumption							PSA Prepayment Assumption						
	0%	100%	125%	175%	225%	500%	800%	0%	100%	125%	175%	225%	500%	800%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100
February 2020	104	104	104	92	80	12	0	100	100	100	100	100	100	100
February 2021	108	108	108	79	50	0	0	100	100	100	100	100	100	100
February 2022	113	113	113	69	27	0	0	100	100	100	100	100	100	100
February 2023	117	117	117	63	12	0	0	100	100	100	100	100	100	100
February 2024	122	122	122	59	4	0	0	100	100	100	100	100	100	95
February 2025	127	127	127	59	*	0	0	100	100	100	100	100	100	48
February 2026	132	132	131	60	*	0	0	100	100	100	100	100	100	25
February 2027	138	138	132	59	*	0	0	100	100	100	100	100	100	12
February 2028	143	143	131	57	*	0	0	100	100	100	100	100	76	6
February 2029	149	149	127	55	*	0	0	100	100	100	100	100	52	3
February 2030	155	155	122	51	*	0	0	100	100	100	100	100	35	2
February 2031	161	160	116	48	*	0	0	100	100	100	100	100	24	1
February 2032	168	152	109	44	*	0	0	100	100	100	100	100	16	*
February 2033	175	143	101	40	*	0	0	100	100	100	100	100	11	*
February 2034	182	133	93	36	*	0	0	100	100	100	100	100	7	*
February 2035	189	123	85	32	*	0	0	100	100	100	100	100	5	*
February 2036	197	112	77	29	*	0	0	100	100	100	100	100	3	*
February 2037	205	101	69	25	*	0	0	100	82	82	82	82	2	*
February 2038	214	91	61	22	*	0	0	100	66	66	66	66	1	*
February 2039	222	80	53	19	*	0	0	100	53	53	53	53	1	*
February 2040	231	70	46	16	*	0	0	100	41	41	41	41	1	*
February 2041	241	60	39	13	*	0	0	100	32	32	32	32	*	*
February 2042	251	50	32	11	*	0	0	100	24	24	24	24	*	*
February 2043	261	41	26	8	*	0	0	43	18	18	18	18	*	*
February 2044	234	32	20	6	*	0	0	13	13	13	13	13	*	*
February 2045	194	23	14	4	*	0	0	8	8	8	8	8	*	*
February 2046	151	15	9	3	*	0	0	5	5	5	5	5	*	*
February 2047	105	7	4	1	*	0	0	2	2	2	2	2	*	*
February 2048	55	0	0	0	0	0	0	0	0	0	0	0	0	0
February 2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)**	27.4	20.2	18.6	11.1	2.2	0.6	0.4	24.3	21.0	21.0	21.0	21.0	10.9	6.4

Date	FN, SN† and NA Classes						GF, GS† and GA Classes					
	PSA Prepayment Assumption						PSA Prepayment Assumption					
	0%	100%	207%	400%	800%	1200%	0%	100%	220%	400%	800%	1200%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100
February 2020	97	90	83	72	50	27	99	96	93	88	77	66
February 2021	94	80	69	52	24	7	98	89	81	69	45	25
February 2022	91	71	57	37	12	2	97	83	69	51	23	7
February 2023	87	62	47	26	6	*	95	76	59	38	12	2
February 2024	84	54	38	19	3	*	94	70	50	29	6	1
February 2025	80	46	30	13	1	*	93	65	42	21	3	*
February 2026	75	39	24	9	1	*	91	59	36	16	2	*
February 2027	70	32	18	6	*	*	89	54	31	12	1	*
February 2028	65	26	14	4	*	*	88	50	26	9	*	*
February 2029	59	20	10	2	*	*	86	45	22	6	*	*
February 2030	53	15	7	1	*	*	84	41	18	5	*	*
February 2031	47	10	4	1	*	*	82	38	15	3	*	*
February 2032	39	5	2	*	*	0	79	34	13	3	*	*
February 2033	32	2	1	*	*	0	77	31	11	2	*	*
February 2034	23	*	*	*	*	0	74	28	9	1	*	*
February 2035	14	*	*	*	0	0	71	25	7	1	*	0
February 2036	4	*	*	0	0	0	68	22	6	1	*	0
February 2037	0	0	0	0	0	0	65	19	5	*	*	0
February 2038	0	0	0	0	0	0	61	17	4	*	*	0
February 2039	0	0	0	0	0	0	57	15	3	*	*	0
February 2040	0	0	0	0	0	0	53	13	3	*	*	0
February 2041	0	0	0	0	0	0	49	11	2	*	*	0
February 2042	0	0	0	0	0	0	44	9	2	*	*	0
February 2043	0	0	0	0	0	0	39	7	1	*	*	0
February 2044	0	0	0	0	0	0	34	6	1	*	*	0
February 2045	0	0	0	0	0	0	28	4	1	*	*	0
February 2046	0	0	0	0	0	0	22	3	*	*	0	0
February 2047	0	0	0	0	0	0	15	2	*	*	0	0
February 2048	0	0	0	0	0	0	8	*	*	*	0	0
February 2049	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)**	10.7	6.0	4.6	2.9	1.4	0.8	19.9	10.6	6.6	4.1	2.2	1.5

\* Indicates an outstanding balance greater than 0% and less than 0.5% of the original principal balance.

\*\* Determined as specified under "Yield, Maturity and Prepayment Considerations - Weighted Average Lives and Final Distribution Dates" in the REMIC Prospectus.

† In the case of a Notional Class, the Decrement Table indicates the percentage of the original notional principal balance outstanding.

Date	FH, SH <sup>†</sup> and SK <sup>†</sup> Classes							HL Class						
	PSA Prepayment Assumption							PSA Prepayment Assumption						
	0%	100%	175%	209%	300%	600%	1200%	0%	100%	175%	209%	300%	600%	1200%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100
February 2020	99	97	96	95	94	89	78	99	96	94	94	94	94	94
February 2021	98	92	88	86	81	66	39	98	89	83	83	83	79	42
February 2022	97	85	78	74	66	42	11	96	80	69	69	69	46	4
February 2023	96	79	69	64	53	26	3	95	71	57	57	57	25	0
February 2024	95	73	60	55	43	17	1	93	63	46	46	46	12	0
February 2025	94	68	53	47	35	10	*	92	56	36	36	36	3	0
February 2026	92	62	47	41	28	7	*	90	48	27	27	27	0	0
February 2027	91	57	41	35	22	4	*	88	42	19	19	19	0	0
February 2028	89	53	36	30	18	3	*	86	35	13	13	13	0	0
February 2029	88	48	31	25	14	2	*	83	29	8	8	8	0	0
February 2030	86	44	27	22	11	1	*	81	24	4	4	4	0	0
February 2031	84	40	24	18	9	1	*	78	18	1	1	1	0	0
February 2032	82	37	21	16	7	*	*	75	13	0	0	0	0	0
February 2033	79	33	18	13	6	*	*	72	9	0	0	0	0	0
February 2034	77	30	15	11	5	*	*	68	4	0	0	0	0	0
February 2035	74	27	13	9	4	*	0	64	*	0	0	0	0	0
February 2036	71	24	11	8	3	*	0	60	0	0	0	0	0	0
February 2037	68	22	9	6	2	*	0	56	0	0	0	0	0	0
February 2038	64	19	8	5	2	*	0	51	0	0	0	0	0	0
February 2039	60	17	7	4	1	*	0	46	0	0	0	0	0	0
February 2040	56	15	6	3	1	*	0	40	0	0	0	0	0	0
February 2041	52	13	5	3	1	*	0	34	0	0	0	0	0	0
February 2042	47	11	4	2	1	*	0	28	0	0	0	0	0	0
February 2043	42	9	3	2	*	*	0	20	0	0	0	0	0	0
February 2044	36	7	2	1	*	*	0	13	0	0	0	0	0	0
February 2045	30	5	2	1	*	*	0	4	0	0	0	0	0	0
February 2046	23	4	1	1	*	*	0	0	0	0	0	0	0	0
February 2047	16	2	1	*	*	*	0	0	0	0	0	0	0	0
February 2048	8	1	*	*	*	*	0	0	0	0	0	0	0	0
February 2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)**	20.5	11.3	8.3	7.3	5.6	3.2	1.8	17.6	7.3	5.1	5.1	5.1	3.1	1.9

Date	HM Class							H Class						
	PSA Prepayment Assumption							PSA Prepayment Assumption						
	0%	100%	175%	209%	300%	600%	1200%	0%	100%	175%	209%	300%	600%	1200%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100
February 2020	100	100	100	100	100	100	100	100	100	100	97	89	62	6
February 2021	100	100	100	100	100	100	100	100	100	100	90	64	0	0
February 2022	100	100	100	100	100	100	100	100	100	100	82	37	0	0
February 2023	100	100	100	100	100	100	37	100	100	100	76	19	0	0
February 2024	100	100	100	100	100	100	10	100	100	100	72	7	0	0
February 2025	100	100	100	100	100	100	3	100	100	100	70	2	0	0
February 2026	100	100	100	100	100	80	1	100	100	100	68	*	0	0
February 2027	100	100	100	100	100	50	*	100	100	99	67	*	0	0
February 2028	100	100	100	100	100	31	*	100	100	95	63	*	0	0
February 2029	100	100	100	100	100	20	*	100	100	90	59	*	0	0
February 2030	100	100	100	100	100	12	*	100	100	84	54	*	0	0
February 2031	100	100	100	100	100	8	*	100	100	78	49	*	0	0
February 2032	100	100	88	88	88	5	*	100	100	71	44	*	0	0
February 2033	100	100	70	70	70	3	*	100	100	64	40	*	0	0
February 2034	100	100	55	55	55	2	*	100	100	57	35	*	0	0
February 2035	100	100	43	43	43	1	*	100	100	51	31	*	0	0
February 2036	100	68	34	34	34	1	*	100	100	45	26	*	0	0
February 2037	100	36	26	26	26	*	0	100	100	39	23	*	0	0
February 2038	100	20	20	20	20	*	0	100	94	34	19	*	0	0
February 2039	100	15	15	15	15	*	0	100	83	29	16	*	0	0
February 2040	100	12	12	12	12	*	0	100	73	24	13	*	0	0
February 2041	100	9	9	9	9	*	0	100	63	20	11	*	0	0
February 2042	100	6	6	6	6	*	0	100	54	16	9	*	0	0
February 2043	100	5	5	5	5	*	0	100	45	13	7	*	0	0
February 2044	100	3	3	3	3	*	0	100	36	10	5	*	0	0
February 2045	100	2	2	2	2	*	0	100	28	8	4	*	0	0
February 2046	56	1	1	1	1	*	0	100	20	5	3	*	0	0
February 2047	1	1	1	1	1	*	0	86	13	3	2	*	0	0
February 2048	*	*	*	*	*	*	0	45	6	1	1	*	0	0
February 2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)**	27.1	18.3	16.4	16.4	16.4	8.7	4.0	28.9	23.7	16.9	11.9	2.7	1.1	0.7

\* Indicates an outstanding balance greater than 0% and less than 0.5% of the original principal balance.

\*\* Determined as specified under "Yield, Maturity and Prepayment Considerations - Weighted Average Lives and Final Distribution Dates" in the REMIC Prospectus.

† In the case of a Notional Class, the Decrement Table indicates the percentage of the original notional principal balance outstanding.

Date	CA Class						VC Class					
	PSA Prepayment Assumption						PSA Prepayment Assumption					
	0%	100%	120%	250%	500%	800%	0%	100%	120%	250%	500%	800%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100
February 2020	99	92	91	83	68	51	94	94	94	94	94	94
February 2021	98	84	81	68	45	23	87	87	87	87	87	87
February 2022	96	76	73	55	29	0	81	81	81	81	81	24
February 2023	95	69	65	45	3	0	74	74	74	74	74	0
February 2024	94	62	58	36	0	0	67	67	67	67	8	0
February 2025	92	56	51	28	0	0	59	59	59	59	0	0
February 2026	90	50	45	14	0	0	52	52	52	52	0	0
February 2027	89	45	40	0	0	0	44	44	44	43	0	0
February 2028	87	40	35	0	0	0	35	35	35	4	0	0
February 2029	85	35	30	0	0	0	27	27	27	0	0	0
February 2030	82	30	22	0	0	0	18	18	18	0	0	0
February 2031	80	25	10	0	0	0	9	9	9	0	0	0
February 2032	77	14	0	0	0	0	0	0	0	0	0	0
February 2033	75	3	0	0	0	0	0	0	0	0	0	0
February 2034	72	0	0	0	0	0	0	0	0	0	0	0
February 2035	68	0	0	0	0	0	0	0	0	0	0	0
February 2036	65	0	0	0	0	0	0	0	0	0	0	0
February 2037	61	0	0	0	0	0	0	0	0	0	0	0
February 2038	58	0	0	0	0	0	0	0	0	0	0	0
February 2039	53	0	0	0	0	0	0	0	0	0	0	0
February 2040	49	0	0	0	0	0	0	0	0	0	0	0
February 2041	44	0	0	0	0	0	0	0	0	0	0	0
February 2042	39	0	0	0	0	0	0	0	0	0	0	0
February 2043	25	0	0	0	0	0	0	0	0	0	0	0
February 2044	7	0	0	0	0	0	0	0	0	0	0	0
February 2045	0	0	0	0	0	0	0	0	0	0	0	0
February 2046	0	0	0	0	0	0	0	0	0	0	0	0
February 2047	0	0	0	0	0	0	0	0	0	0	0	0
February 2048	0	0	0	0	0	0	0	0	0	0	0	0
February 2049	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average												
Life (years)**	18.3	7.3	6.5	3.8	2.0	1.2	7.0	7.0	7.0	6.1	4.0	2.6

  

Date	ZC Class						CL Class					
	PSA Prepayment Assumption						PSA Prepayment Assumption					
	0%	100%	120%	250%	500%	800%	0%	100%	120%	250%	500%	800%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100
February 2020	104	104	104	104	104	104	100	100	100	100	100	100
February 2021	107	107	107	107	107	107	100	100	100	100	100	100
February 2022	111	111	111	111	111	111	100	100	100	100	100	79
February 2023	115	115	115	115	115	46	100	100	100	100	100	30
February 2024	119	119	119	119	119	21	100	100	100	100	79	13
February 2025	123	123	123	123	75	7	100	100	100	100	48	5
February 2026	128	128	128	128	41	2	100	100	100	100	26	1
February 2027	132	132	132	132	26	1	100	100	100	100	17	1
February 2028	137	137	137	137	15	1	100	100	100	89	10	*
February 2029	142	142	142	118	8	*	100	100	100	75	5	*
February 2030	147	147	147	90	3	*	100	100	100	57	2	*
February 2031	152	152	152	65	2	*	100	100	100	41	1	*
February 2032	157	157	157	45	1	*	100	100	100	29	1	*
February 2033	157	157	144	35	1	*	100	100	92	22	1	*
February 2034	157	150	132	27	1	*	100	96	84	17	*	*
February 2035	157	138	111	19	*	*	100	88	71	12	*	*
February 2036	157	124	85	13	*	*	100	79	54	9	*	*
February 2037	157	99	62	8	*	*	100	63	39	5	*	*
February 2038	157	74	43	5	*	*	100	47	28	3	*	*
February 2039	157	50	32	4	*	*	100	32	20	2	*	*
February 2040	157	36	21	3	*	*	100	23	13	2	*	*
February 2041	157	24	10	2	*	*	100	15	7	1	*	*
February 2042	157	13	8	2	*	*	100	8	5	1	*	*
February 2043	157	8	5	1	*	*	100	5	3	1	*	*
February 2044	157	5	3	1	*	*	100	3	2	*	*	*
February 2045	131	2	*	*	*	0	84	1	*	*	*	0
February 2046	58	*	*	*	*	0	37	*	*	*	*	0
February 2047	12	*	*	*	*	0	7	*	*	*	*	0
February 2048	0	0	0	0	0	0	0	0	0	0	0	0
February 2049	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average												
Life (years)**	26.8	19.1	17.7	12.7	7.0	4.2	26.8	19.1	17.7	12.2	6.4	3.8

\* Indicates an outstanding balance greater than 0% and less than 0.5% of the original principal balance.

\*\* Determined as specified under "Yield, Maturity and Prepayment Considerations - Weighted Average Lives and Final Distribution Dates" in the REMIC Prospectus.

## **Characteristics of the Residual Classes**

A Residual Certificate will be subject to certain transfer restrictions. See "Description of the Certificates-Special Characteristics of the Residual Certificates" and "Material Federal Income Tax Consequences-Taxation of Beneficial Owners of Residual Certificates" in the REMIC Prospectus.

Treasury Department regulations (the "Regulations") provide that a transfer of a "noneconomic residual interest" will be disregarded for all federal tax purposes unless no significant purpose of the transfer is to impede the assessment or collection of tax. A Residual Certificate will constitute a noneconomic residual interest under the Regulations. Having a significant purpose to impede the assessment or collection of tax means that the transferor of a Residual Certificate had "improper knowledge" at the time of the transfer. See "Description of the Certificates-Special Characteristics of the Residual Certificates" in the REMIC Prospectus. You should consult your own tax advisor regarding the application of the Regulations to a transfer of a Residual Certificate.

## **CERTAIN ADDITIONAL FEDERAL INCOME TAX CONSEQUENCES**

The Certificates and payments on the Certificates are not generally exempt from taxation. Therefore, you should consider the tax consequences of holding a Certificate before you acquire one. The following tax discussion supplements the discussion under the caption "Material Federal Income Tax Consequences" in the REMIC Prospectus. When read together, the two discussions describe the current federal income tax treatment of beneficial owners of Certificates. These two tax discussions do not purport to deal with all federal tax consequences applicable to all categories of beneficial owners, some of which may be subject to special rules. In addition, these discussions may not apply to your particular circumstances for one of the reasons explained in the REMIC Prospectus. You should consult your own tax advisors regarding the federal income tax consequences of holding and disposing of Certificates as well as any tax consequences arising under the laws of any state, local or foreign taxing jurisdiction.

## **REMIC Elections and Special Tax Attributes**

We will make a REMIC election with respect to the REMICs set forth in the table under "Description of the Certificates-General-Structure." The Regular Classes will be designated as "regular interests" and the Residual Classes will be designated as the "residual interest" in the REMICs as set forth in that table. Thus, the REMIC Certificates and any related RCR Certificates generally will be treated as "regular or residual interests in a REMIC" for domestic building and loan associations, as "real estate assets" for real estate investment trusts, and, except for the Residual Classes, as "qualified mortgages" for other REMICs. See "Material Federal Income Tax Consequences-REMIC Election and Special Tax Attributes" in the REMIC Prospectus.

Notwithstanding the foregoing, the Mortgage Loans backing the Group 7 MBS have loan-to-value ratios at origination ranging from greater than 105% up to 125%. See "Description of the Certificates-The Fixed Rate MBS " in this prospectus supplement. A portion of the Classes may not be treated as "real estate assets" within the meaning of section 856(c)(5)(B) of the code. See "Material Federal Income Tax Consequences-Special Tax Attributes" in the MBS Prospectus dated Group 7. Accordingly, special tax considerations may apply to a real estate investment trust that holds a REMIC Certificate of a May 1, 2018 Class, and we may be obligated to provide additional information, pursuant to Regulations under section 6049 of the code, on those Classes. See "Material Federal Income Tax Consequences-REMIC Election and Special Tax Attributes" in the REMIC Prospectus.

## **Taxation of Beneficial Owners of Regular Certificates**

As described under "Material Federal Income Tax Consequences-Taxation of Beneficial Owners of Regular Certificates-Treatment of Original Issue Discount" in the REMIC Prospectus, a Regular Certificate that is an Accrual Class, Notional Class or Principal Only Class will be treated as issued with original issue discount ("OID"). In addition, certain other Classes of Regular Certificates may be issued with OID. If a Class is issued with OID, a beneficial owner of a Certificate of that Class generally must recognize some taxable income in advance of the receipt of the cash attributable to that income. In addition, certain Classes of Regular Certificates may be treated as having been issued at a premium. See "Material Federal Income Tax Consequences-Taxation of Beneficial Owners of Regular Certificates-Regular Certificates Purchased at a Premium " in the REMIC Prospectus.

The Prepayment Assumptions that will be used in determining the rate of accrual of any OID will be as follows:

<u>Group</u>	<u>Prepayment Assumption</u>
1	536% PSA
2	396% PSA
3	399% PSA
4	197% PSA
5	205% PSA
6	15% CPR
7	209% PSA
8	175% PSA
9	207% PSA
10	220% PSA
11	209% PSA
12	120% PSA

See "Material Federal Income Tax Consequences-Taxation of Beneficial Owners of Regular Certificates-*Treatment of Original Issue Discount*" in the REMIC Prospectus. No representation is made as to whether the Mortgage Loans underlying the MBS will prepay at any particular rate. See "Description of the Certificates-Weighted Average Lives of the Certificates" in this prospectus supplement and "Yield, Maturity and Prepayment Considerations- Weighted Average Lives and Final Distribution Dates" in the REMIC Prospectus.

The law informally known as the Tax Cuts and Jobs Act ("TCJA"), which was enacted on December 22, 2017, generally requires a beneficial owner of a Regular Certificate that uses an accrual method of accounting for tax purposes to include certain amounts in income no later than the time such amounts are reflected on certain financial statements. Although the precise application of this rule is unclear, it might require the accrual of income earlier than is the case under the general tax rules described under "Material Federal Income Tax Consequences-Taxation of Beneficial Owners of Regular Certificates" in the REMIC Prospectus. This rule is generally effective for tax years beginning after December 31, 2017, or for Regular Certificates issued with original issue discount, for tax years beginning after December 31, 2018. The IRS issued Notice 2018-80, stating its intention to exclude market discount from the application of this rule, effective January 1, 2018. Prospective investors in Regular Certificates that use an accrual method of accounting for tax purposes are urged to consult with their tax advisors regarding the potential applicability of this legislation to their particular situations.

### **Taxation of Beneficial Owners of Residual Certificates**

The Holder of a Residual Certificate will be considered to be the holder of the "residual interest" in the related REMIC. Such Holder generally will be required to report its daily portion of the taxable income or net loss of the REMIC to which that Certificate relates. In certain periods, a Holder of a Residual Certificate may be required to recognize taxable income without being entitled to receive a corresponding amount of cash. Pursuant to the Trust Agreement, we will be obligated to provide to the Holder of a Residual Certificate (i) information necessary to enable it to prepare its federal income tax returns and (ii) any reports regarding the Residual Class that may be required under the Code. See "Material Federal Income Tax Consequences- Taxation of Beneficial Owners of Residual Certificates" in the REMIC Prospectus.

The TCJA generally denies a deduction for an individual, trust or estate that holds a Residual Certificate of its allocable share of the REMIC's fees or expenses under Section 212 of the Code for any taxable year beginning after December 31, 2017, and before January 1, 2026. Prospective investors in Residual Certificates are urged to consult with their tax advisors regarding the potential applicability of this legislation to their particular situations.

### **Taxation of Beneficial Owners of RCR Certificates**

The RCR Classes will be created, sold and administered pursuant to an arrangement that will be classified as a grantor trust under subpart E, part I of subchapter J of the Code. The Regular Certificates that are exchanged for RCR Certificates set forth in Schedule 1 (including any exchanges effective on the Settlement Date) will be the assets of the trust, and the RCR Certificates will represent an ownership interest of the underlying Regular Certificates. For a general discussion of the federal income tax treatment of beneficial owners of Regular Certificates, see "Material Federal Income Tax Consequences" in the REMIC Prospectus.

Generally, the ownership interest represented by an RCR certificate will be one of two types. A certificate of a Combination RCR Class (a "Combination RCR Certificate") will represent beneficial ownership of undivided interests in one or more underlying Regular Certificates. A certificate of a Strip RCR Class (a "Strip RCR Certificate") will represent

the right to receive a disproportionate part of the principal or interest payments on one or more underlying Regular Certificates. The QB and QI Classes of RCR Certificates are Strip RCR Certificates. The remaining Classes of RCR Certificates are Combination RCR Certificates. See "Material Federal Income Tax Consequences-Taxation of Beneficial Owners of RCR Certificates" in the REMIC Prospectus for a general discussion of the federal income tax treatment of beneficial owners of RCR Certificates.

### **Tax Audit Procedures**

The Bipartisan Budget Act of 2015, which was enacted on November 2, 2015, repeals and replaces the rules applicable to certain administrative and judicial proceedings regarding a partnership's tax affairs, effective beginning with the 2018 taxable year. Under the new rules, a partnership, including for this purpose a REMIC for a taxable year in which it has multiple Residual Owners, appoints one person to act as its sole representative in connection with IRS audits and related procedures. The representative's actions, including the representative's agreeing to adjustments to taxable income, will bind partners or Residual Owners to a greater degree than would actions of the tax matters partner ("TMP") under the rules in effect prior to the 2018 taxable year. See "Material Federal Income Tax Consequences-Reporting and Other Administrative Matters" in the REMIC Prospectus for a discussion of the TMP. Under the new rules, a REMIC having multiple Residual Owners in a taxable year, unless such REMIC elects otherwise, will be required to pay taxes arising from IRS audit adjustments rather than its Residual Owners. The Trustee, as representative, will have the authority to utilize, and will be directed to utilize, any exceptions available under the new provisions (including changes) and Regulations so that the Residual Owners, to the fullest extent possible, rather than the REMIC itself, will be liable for any taxes arising from audit adjustments to the REMIC's taxable income. An adjustment to the REMIC's taxable income following an IRS audit may have to be taken into account by those Residual Owners in the taxable year in which the adjustment is made rather than in the taxable year to which the adjustment relates, and otherwise in different and potentially less advantageous ways than under the rules in effect prior to the 2018 taxable year. The new rules apply to existing and future REMICs having multiple Residual Owners in a taxable year. The new rules are complex and may be clarified and possibly revised. Residual Owners should discuss with their own tax advisors the possible effect of the new rules on them.

### **Foreign Investors**

As set forth under "Material Federal Income Tax Consequences-Foreign Investors-FATCA" in the REMIC Prospectus, FATCA withholding is scheduled to be imposed, beginning on January 1, 2019, on gross proceeds from the sale or other disposition of Regular Certificates paid to certain persons. However, on December 13, 2018, the IRS released proposed regulations which, if finalized, would eliminate FATCA withholding on gross proceeds to such persons from the sale or other disposition of Regular Certificates. The IRS will permit taxpayers to rely on this aspect of the proposed regulations until final regulations are issued. You should consult your own tax advisor regarding the potential application and impact of FATCA based on your particular circumstances. See "Material Federal Income Tax Consequences-Foreign Investors" in the REMIC Prospectus.

## **ADDITIONAL ERISA CONSIDERATIONS**

The following discussion supplements the discussion under "ERISA Considerations" in the REMIC Prospectus regarding important considerations for investors subject to ERISA or section 4975 of the Code. Due to the possibility that Fannie Mae, any Dealer or any of their respective affiliates may receive certain benefits in connection with the sale or holding of the Certificates, the purchase of the Certificates using "assets of a plan" (as described in 29 C.F.R. Section 2510.3-101, as modified by Section 3(42) of ERISA) over which any of these parties or their affiliates has investment authority, or renders investment advice for a fee with respect to the assets of the plan, or is the employer or other sponsor of the plan, might be deemed to be a violation of a provision of Title I of ERISA or Section 4975 of the Code. Accordingly, the Certificates may not be purchased using the assets of any plan if Fannie Mae, any Dealer or any of their respective affiliates has investment authority, or renders investment advice for a fee with respect to the assets of the plan, or is the employer or other sponsor of the plan, unless an applicable prohibited transaction exemption is available to cover the purchase or holding of the Certificates or the transaction is not otherwise prohibited.

## **PLAN OF DISTRIBUTION**

We are obligated to deliver the Certificates to Wells Fargo Bank, N.A. (the "Dealer") in exchange for the Trust MBS, and the Underlying REMIC and RCR Certificates. The Dealer proposes to offer the Certificates directly to the public from time to time in negotiated transactions at varying prices to be determined at the time of sale. The Dealer may effect these transactions to or through other dealers.

## EUROPEAN ECONOMIC AREA RISK RETENTION

Prospective investors whose investment activities are subject to investment laws and regulations, regulatory capital requirements or review by regulatory authorities may be subject to restrictions on investment in the certificates. Prospective investors should consult legal, tax and accounting advisers for assistance in determining the suitability of and consequences of the purchase, ownership and sale of the certificates.

The application of the risk retention provisions of relevant European Economic Area ("EEA") legislation, specifically Regulation (EU) 2017/2402 and its related and implementing or supplementary legislation and technical standards, as amended from time to time (the "Securitisation Regulation"), to the certificates transaction (the "Transaction") is unclear.

Our exposure to the credit risk related to the Transaction is in the form of our guaranty obligations on the certificates (the "Guaranty Obligations"). Our Guaranty Obligations represent general unsecured obligations. Obligations similar to our Guaranty Obligations have long been a central feature to our mortgage-backed securities issuance programs and our Guaranty Obligations were undertaken in the ordinary course of our business.

In determining the extent to which the Securitisation Regulation applies to the Transaction, investors subject to the Securitisation Regulation may wish to consider the guidance appearing in the preamble to the draft regulatory technical standards contained in the European Banking Authority's Final Draft Regulatory Technical Standards specifying the requirements for originators, sponsors and original lenders relating to risk retention pursuant to Article 6(7) of the Securitisation Regulation of July 31, 2018, which provides in relevant part: "Where an entity exclusively securitises assets consisting of its own liabilities, alignment of interests is established automatically for that securitisation. Where it is clear that the credit risk remains with the originator, the retention of interest by the originator is unnecessary and would not improve on the pre-existing position." We will remain fully liable under the Guaranty Obligations. We do not intend to collateralize any of our credit exposure under the Guaranty Obligations or the certificates.

In order to assist Applicable Investors (as defined below) in evaluating a potential investment in the certificates, we will enter into a letter agreement on the settlement date pursuant to which we will irrevocably undertake to the certificateholders that, in connection with the Securitisation Regulation, at the origination and on an ongoing basis, so long as any certificates remain outstanding:

- we will, as originator (for purposes of the Securitisation Regulation), retain a material net economic interest (the "Retained Interest") in the exposure related to the Transaction of not less than 5% through the Guaranty Obligations;
- neither we nor our affiliates will sell, hedge or otherwise mitigate our credit risk under or associated with the Retained Interest or the mortgage loans, except to the extent permitted in accordance with the Securitisation Regulation; accordingly, neither we nor our affiliates will, through this transaction or any subsequent transactions, enter into agreements that transfer or hedge more than a 95% pro rata share of the credit risk corresponding to any of the certificates;
- we will, upon written request and further subject to any applicable duty of confidentiality, provide such information in our possession as may reasonably be required to assist the certificateholders to satisfy the due diligence obligations set forth in the Securitisation Regulation as of the settlement date and at any time prior to maturity of the certificates;
- we will confirm to the trustee for reporting to certificateholders our continued compliance with the undertakings set out at the first and second bullet points above (which confirmation may be by email): (i) on a monthly basis; and (ii) following our determination that the performance of the certificates or the risk characteristics of the certificates or of the mortgage loans has materially changed; and
- we will promptly notify the trustee in writing if for any reason: (i) we cease to hold the Retained Interest in accordance with the first bullet point above; or (ii) we or any of our affiliates fails to comply with the covenants set out in the second and third bullet points above in any way.

"Applicable Investor" means each holder of a beneficial interest in any certificates that is an institutional investor as defined in Article 2(12) of the Securitisation Regulation.

Each prospective investor in the certificates is required independently to assess and determine whether our disclosure regarding risk retention contained in this prospectus supplement and the prospectus is sufficient for purposes of complying with any applicable risk retention requirements. Prospective investors are themselves responsible for monitoring and assessing the Securitisation Regulation and their regulatory capital requirements. Neither we nor the trustee or any other

person makes any representation or provides any assurance to the effect that the information described in this prospectus supplement or in the prospectus is sufficient for such purposes. Each prospective investor in the certificates that is subject to any retention requirements should consult with its own legal, accounting and other advisors and/or its national regulator in determining the extent to which such information is sufficient for such purpose.

THE CERTIFICATES ARE NOT INTENDED TO BE OFFERED, SOLD OR OTHERWISE MADE AVAILABLE TO, AND SHOULD NOT BE OFFERED, SOLD OR OTHERWISE MADE AVAILABLE TO, ANY RETAIL INVESTOR IN THE EEA. FOR THESE PURPOSES, A RETAIL INVESTOR MEANS A PERSON WHO IS ONE (OR MORE) OF: (I) A RETAIL CLIENT AS DEFINED IN POINT (11) OF ARTICLE 4(1) OF DIRECTIVE 2014/65/EU (AS AMENDED, "MIFID II"); OR (II) A CUSTOMER WITHIN THE MEANING OF DIRECTIVE 2002/92/EC, WHERE THAT CUSTOMER WOULD NOT QUALIFY AS A PROFESSIONAL CLIENT AS DEFINED IN POINT (10) OF ARTICLE 4(1) OF MIFID II; OR (III) NOT A QUALIFIED INVESTOR AS DEFINED IN DIRECTIVE 2003/71/EC, CONSEQUENTLY NO KEY INFORMATION DOCUMENT REQUIRED BY REGULATION (EU) NO1286/2014 (AS AMENDED, THE "PRIIPS REGULATION") FOR OFFERING OR SELLING THE CERTIFICATES OR OTHERWISE MAKING THEM AVAILABLE TO RETAIL INVESTORS IN THE EEA HAS BEEN PREPARED AND THEREFORE OFFERING OR SELLING THE CERTIFICATES OR OTHERWISE MAKING THEM AVAILABLE TO ANY RETAIL INVESTOR IN THE EEA MAY BE UNLAWFUL UNDER THE PRIIPS REGULATION.

### **LEGAL MATTERS**

Katten Muchin Rosenman LLP will provide legal representation for Fannie Mae. K&L Gates LLP will provide legal representation for the Dealer.



## Group 3 Underlying REMIC and RCR Certificates

Underlying REMIC Trust	Class	Date of Issue	CUSIP Number	Interest Rate	Interest Type(1)	Final Distribution Date	Principal Type(1)	Original Principal Balance of Class	February 2019 Class Factor	Principal Balance in the Lower Tier REMIC	Approximate Weighted Average WAC	Approximate Weighted Average WAM (in months)	Approximate Weighted Average WALA (in months)
2018-47	KL	June 2018	3136B2RQ7	3.5 %	FIX	July 2048	PAC	\$ 11,764,000	1.00000000	\$ 11,764,000.00	4.775 %	350	8
2018-47	MY	June 2018	3136B2QE5	3.5	FIX	July 2048	PAC	8,100,000	1.00000000	8,100,000.00	4.778	350	8
2018-60	MY	July 2018	3136B2D41	3.5	FIX	June 2048	SC/PAC/AD	6,709,000	1.00000000	6,709,000.00	(2)	(2)	(2)
2018-65	BV	August 2018	3136B2M74	3.5	FIX	March 2037	PAC/AD	2,410,000	1.00000000	2,410,000.00	4.767	350	9
2018-65	PV	August 2018	3136B2L83	3.5	FIX	March 2037	PAC/AD	3,309,000	1.00000000	3,309,000.00	4.794	351	7
2018-65	VB	August 2018	3136B2M66	3.5	FIX	December 2029	PAC/AD	2,720,000	0.96322078	2,619,960.52	4.767	350	9
2018-65	VP	August 2018	3136B2L75	3.5	FIX	December 2029	PAC/AD	3,734,000	0.96322364	3,596,677.09	4.794	351	7
2018-65	ZL	August 2018	3136B2P48	3.5	FIX/Z	September 2048	PAC	13,465,000	1.01762810	13,702,362.39	4.782	350	8
2018-75	ML	September 2018	3136B3CK4	3.5	FIX	April 2046	PAC	4,546,000	1.00000000	4,546,000.00	4.835	354	5

(1) See "Description of the Certificates-Class Definitions and Abbreviations" in the REMIC Prospectus.

(2) The Class 2018-60-MY REMIC Certificate is backed by the Fannie Mae RCR certificates listed below having the following characteristics:

Class	Interest Type	Principal Type	Approximate Weighted Average WAC	Approximate Weighted Average WAM (in months)	Approximate Weighted Average WALA (in months)
2017-94-BE	FIX	PAC/AD	4.690 %	338	19
2017-94-BI	FIX/IO	NTL	4.690	338	19
2017-94-BK	FIX	PAC/AD	4.690	338	19
2017-94-IN	FIX/IO	NTL	4.690	338	19
2017-94-PI	FIX/IO	NTL	4.690	338	19
2018-37-JL	FIX	PAC/AD	4.717	347	10

\* For any pool of Mortgage Loans backing an underlying REMIC or RCR Certificate, if a preliminary calculation indicated that the sum of the WAM and WALA for that pool exceeded the longest original term to maturity of any Mortgage Loan in the pool, the WALA used in determining the information shown in the related table was reduced as necessary to insure that the sum of the WAM and WALA does not exceed such original term to maturity.

**Assumed Characteristics of the Mortgage Loans Underlying the ARM MBS  
( As of February 1, 2019 )**

<u>Issue Date</u>	<u>Unpaid Principal Balance</u>	<u>Net Mortgage Rate* (%)</u>	<u>Mortgage Rate (%)</u>	<u>Original Term (in months)</u>	<u>Remaining Term to Maturity (in months)</u>	<u>Loan Age (in months)</u>	<u>Margin (%)</u>	<u>Initial Rate Cap (%)</u>	<u>Periodic Rate Cap (%)</u>	<u>Lifetime Rate Cap (%)</u>	<u>Lifetime Rate Floor† (%)</u>	<u>Months to Rate Change</u>	<u>Rate Reset Frequency (in months)</u>	<u>Payment Reset Frequency (in months)</u>	<u>Remaining Interest Only Period (in months)</u>	<u>Index**</u>
\$	161.44	4.531	5.000	360	78	282	2.750	***	2.000	12.0216	2.750	6	12	12	N/A	1-YEAR CMT
	882,620.00	4.671	5.113	360	95	265	2.750	***	2.000	13.0806	2.750	7	12	12	N/A	1-YEAR CMT
	1,296.32	4.490	5.125	360	165	195	2.250	***	2.000	11.2500	2.250	9	12	12	0	WSJ 1-YEAR LIBOR
	70,415.40	4.154	4.875	360	171	189	2.250	***	2.000	10.7377	2.250	3	12	12	N/A	WSJ ONE YEAR LIBOR
	1,059,800.79	4.317	5.164	360	186	174	2.406	***	2.000	10.2626	2.406	6	12	12	N/A	WSJ 1-YEAR LIBOR
	45,808.33	4.921	5.371	360	179	181	2.250	***	2.000	9.6981	2.250	11	12	12	N/A	WSJ 1-YEAR LIBOR
	258,475.29	3.952	4.625	360	182	178	2.250	***	2.000	10.0346	2.250	2	12	12	N/A	WSJ 1-YEAR LIBOR
	657,072.07	4.285	4.740	360	183	177	2.750	***	2.000	9.2604	2.750	3	12	12	N/A	1-YEAR CMT
	407.03	4.385	5.079	360	188	172	2.250	***	2.000	10.6253	2.250	8	12	12	0	WSJ ONE YEAR LIBOR
	111,245.40	4.105	4.810	360	187	173	2.250	***	2.000	11.4861	2.250	2	6	6	0	WSJ 6-MONTH LIBOR
	14,829.99	4.303	4.875	360	195	165	2.250	***	2.000	10.6816	2.250	3	12	12	N/A	WSJ 1-YEAR LIBOR
	207,246.93	4.521	5.061	360	199	161	2.696	***	2.000	10.3284	2.696	7	12	12	0	1-YEAR CMT
	1,655.54	4.710	5.125	360	201	159	2.250	***	2.000	10.7500	2.250	9	12	12	0	WSJ 1-YEAR LIBOR
	1,543,330.00	4.841	5.231	360	176	184	2.750	***	2.000	10.7140	2.750	8	12	12	N/A	1-YEAR CMT
	73,929.79	4.933	5.363	360	203	157	2.250	***	2.000	10.8834	2.250	11	12	12	N/A	WSJ 1-YEAR LIBOR
	657,997.80	4.138	4.591	360	205	155	2.250	***	2.000	11.1294	2.250	2	12	12	N/A	WSJ 1-YEAR LIBOR
	2,561,551.71	4.360	5.093	360	204	156	2.250	***	2.000	12.0014	2.250	9	12	12	0	WSJ 1-YEAR LIBOR
	39,109.13	4.915	5.375	360	204	156	2.250	***	2.000	11.1041	2.250	12	12	12	0	WSJ 1-YEAR LIBOR
	16,767.63	4.750	5.269	360	215	145	2.258	***	2.000	11.2802	2.258	10	12	12	0	WSJ 1-YEAR LIBOR
	192,298.32	4.446	5.005	360	164	196	2.761	***	2.000	10.4312	2.761	6	12	12	N/A	1-YEAR CMT
	607,651.04	4.446	5.020	360	179	181	2.776	***	2.000	9.7899	2.776	5	12	12	N/A	1-YEAR CMT
	620.98	4.799	5.226	360	213	147	2.286	***	2.000	11.2752	2.286	9	12	12	0	WSJ 1-YEAR LIBOR
	432.18	4.770	5.339	360	215	145	2.250	***	2.000	11.5413	2.250	11	12	12	0	WSJ 1-YEAR LIBOR
	1,392,359.29	4.049	4.676	360	218	142	2.250	***	2.000	11.4359	2.250	2	12	12	0	WSJ 1-YEAR LIBOR
	1,288,356.15	4.575	5.075	360	174	186	2.750	***	2.000	9.3429	2.750	6	12	12	N/A	1-YEAR CMT
	309,447.47	4.646	5.199	360	191	169	2.250	***	2.000	10.1406	2.250	9	12	12	0	WSJ 1-YEAR LIBOR
	38,691.49	4.268	4.714	359	182	178	2.250	***	2.000	9.4750	2.250	2	12	12	N/A	WSJ 1-YEAR LIBOR
	360,141.47	4.512	5.013	360	194	166	2.252	***	2.000	10.4129	2.252	7	12	12	N/A	WSJ 1-YEAR LIBOR
	1,945,801.42	4.616	5.159	360	175	185	2.805	***	2.000	10.4353	2.805	7	12	12	N/A	1-YEAR CMT
	405,499.39	4.634	5.249	360	202	158	2.250	***	2.000	11.0326	2.250	10	12	12	0	WSJ 1-YEAR LIBOR
	1,442,741.27	4.325	4.917	360	178	182	2.751	***	2.000	10.0163	2.751	5	12	12	0	1-YEAR CMT
	225,709.38	4.427	4.999	360	194	166	2.286	***	2.000	10.1913	2.286	4	12	12	N/A	WSJ 1-YEAR LIBOR
	450,724.00	4.619	5.155	360	175	185	2.764	***	2.000	10.4788	2.764	7	12	12	N/A	1-YEAR CMT
	1,798,645.54	4.488	5.064	360	179	180	2.258	***	2.000	10.1642	2.258	7	12	12	N/A	WSJ 1-YEAR LIBOR
	279,898.07	4.534	5.069	360	177	183	2.751	***	2.000	10.0756	2.751	6	12	12	N/A	1-YEAR CMT
	1,632,795.24	4.473	5.008	360	174	186	2.748	***	2.000	10.0542	2.748	6	12	12	N/A	1-YEAR CMT
	8,480,477.91	4.472	5.005	359	188	171	2.265	***	2.000	10.0341	2.265	6	12	12	0	WSJ 1-YEAR LIBOR

	<b>Issue Date Unpaid Principal Balance</b>	<b>Net Mortgage Rate* (%)</b>	<b>Mortgage Rate (%)</b>	<b>Original Term (in months)</b>	<b>Remaining Term to Maturity (in months)</b>	<b>Loan Age (in months)</b>	<b>Margin (%)</b>	<b>Initial Rate Cap (%)</b>	<b>Periodic Rate Cap (%)</b>	<b>Lifetime Rate Cap (%)</b>	<b>Lifetime Rate Floor† (%)</b>	<b>Months to Rate Change</b>	<b>Rate Reset Frequency (in months)</b>	<b>Payment Reset Frequency (in months)</b>	<b>Remaining Interest Only Period (in months)</b>	<b>Index**</b>
\$	698,120.59	4.486	4.995	360	177	182	2.751	***	2.000	9.8371	2.751	6	12	12	N/A	1-YEAR CMT
	12,469,653.29	4.636	5.061	360	216	144	2.250	***	2.000	12.2088	2.250	7	12	12	0	WSJ 1-YEAR LIBOR
	663,726.00	4.523	5.080	359	203	156	2.285	***	2.000	10.3265	2.285	6	12	12	N/A	WSJ 1-YEAR LIBOR
	1,502,376.57	4.561	5.125	360	171	189	2.781	***	2.000	10.6613	2.781	7	12	12	N/A	1-YEAR CMT
	960,690.00	4.492	5.054	360	175	185	2.765	***	2.000	10.5063	2.765	6	12	12	0	1-YEAR CMT
	2,054,783.84	4.528	5.066	360	189	171	2.270	***	2.000	10.3736	2.270	6	12	12	N/A	WSJ 1-YEAR LIBOR
	536,210.02	4.478	5.024	360	192	168	2.278	***	2.000	10.1431	2.278	6	12	12	0	WSJ 1-YEAR LIBOR
	34,601,974.39	4.450	5.017	360	194	166	2.277	***	2.000	10.2802	2.277	6	12	12	N/A	WSJ 1-YEAR LIBOR

\* The "Net Mortgage Rate" of a Hybrid ARM Loan is equal to its then current interest rate less the sum of the related servicing fee and our guaranty fee (expressed in each case as an annual percentage).

\*\* For a description of these Indices, see "The Mortgage Loans-Adjustable-Rate Mortgage Loans (ARM Loans)-*ARM Indices*" in the MBS Prospectus.

\* \* \* We have assumed that all applicable initial fixed-rate periods have expired and that all initial rate adjustments have occurred.

† We have assumed that the lifetime rate floor for each Hybrid ARM Loan will never decline below the applicable ARM Margin for that loan.

### Expected ARM MBS ( As of February 1, 2019 )

The pool numbers of the adjustable-rate MBS expected to be included in the Lower Tier REMIC are listed below:

<b><u>Pool Number</u></b>	<b><u>Issue Date Unpaid Principal Balance</u></b>
535314	\$ 161.44
623018	882,620.00
671884	1,296.32
704582	70,415.40
725965	1,059,800.79
766891	45,808.33
775234	258,475.29
777133	657,072.07
803594	407.03
806765	111,245.40
821365	14,829.99
841021	207,246.93
841031	1,655.54
841066	1,543,330.00
850854	73,929.79
866091	657,997.80
870542	2,561,551.71
879419	39,109.13
888324	16,767.63
889017	192,298.32
889946	607,651.04
906237	620.98
909412	432.18

<b><u>Pool Number</u></b>	<b><u>Issue Date Unpaid Principal Balance</u></b>
917939	\$ 1,392,359.29
984236	1,288,356.15
995016	309,447.47
995140	38,691.49
995292	360,141.47
AD0805	1,945,801.42
AE0240	405,499.39
AE0567	1,442,741.27
AE0901	225,709.38
AL1149	450,724.00
AL1155	1,798,645.54
AL1649	279,898.07
AL4677	1,632,795.24
AL5548	8,480,477.91
AL5552	698,120.59
AL5859	12,469,653.29
AL5994	663,726.00
AL7479	1,502,376.57
AL7977	960,690.00
AL8474	2,054,783.84
AL9162	536,210.02
AL9912	34,601,974.39

**Group 9 Underlying REMIC and RCR Certificates**

<u>Underlying REMIC Trust</u>	<u>Class</u>	<u>Date of Issue</u>	<u>CUSIP Number</u>	<u>Interest Rate</u>	<u>Interest Type(1)</u>	<u>Final Distribution Date</u>	<u>Principal Type(1)</u>	<u>Original Principal Balance of Class</u>	<u>February 2019 Class Factor</u>	<u>Principal Balance in the Lower Tier REMIC</u>	<u>Approximate Weighted Average WAC</u>	<u>Approximate Weighted Average WAM (in months)</u>	<u>Approximate Weighted Average WALA (in months)</u>
2006-46	PH	May 2006	31395D5W5	5.5 %	FIX	June 2036	PAC	\$ 16,088,000	0.49210959	\$ 7,917,058.33	5.929 %	172	175
2006-106	PD	October 2006	31396LNP1	5.5	FIX	November 2036	PAC	22,221,423	0.70915243	15,758,376.49	5.921	170	177
2009-20	GP	March 2009	31397NQH1	5.5	FIX	June 2036	SC/PT	44,161,255	0.43632507	19,268,663.18	(2)	(2)	(2)

(1) See "Description of the Certificates-Class Definitions and Abbreviations" in the REMIC Prospectus.

(2) The Class 2009-20-GP RCR Certificate is backed by the Fannie Mae REMIC certificate listed below having the following characteristics:

<u>Class</u>	<u>Interest Type</u>	<u>Principal Type</u>	<u>Approximate Weighted Average WAC</u>	<u>Approximate Weighted Average WAM (in months)</u>	<u>Approximate Weighted Average WALA (in months)</u>
2006-44-OH	FIX	PAC	5.912 %	167	180

**Group 12 Underlying REMIC and RCR Certificates**

<u>Underlying REMIC Trust</u>	<u>Class</u>	<u>Date of Issue</u>	<u>CUSIP Number</u>	<u>Interest Rate</u>	<u>Interest Type(1)</u>	<u>Final Distribution Date</u>	<u>Principal Type(1)</u>	<u>Original Principal Balance of Class</u>	<u>February 2019 Class Factor</u>	<u>Principal Balance in the Lower Tier REMIC</u>	<u>Approximate Weighted Average WAC</u>	<u>Approximate Weighted Average WAM (in months)</u>	<u>Approximate Weighted Average WALA (in months)</u>
2018-22	MG	March 2018	3136B1PF5	3.5 %	FIX	February 2047	PAC/AD	\$ 7,812,000	1.00000000	\$ 7,812,000.00	4.982 %	346	13
2018-24	BC	March 2018	3136B1MB7	3.5	FIX	April 2048	PAC/AD	10,716,000	1.00000000	3,019,106.00	4.888	344	14
2018-31	BP	April 2018	3136B1YN8	3.5	FIX	December 2047	PAC/AD	4,443,158	1.00000000	4,443,158.00	4.888	344	14
2018-73	MA	September 2018	3136B3DL1	3.5	FIX	October 2045	SEQ	27,291,000	0.94405920	12,547,490.00	4.971	285	62

(1) See "Description of the Certificates-Class Definitions and Abbreviations" in the REMIC Prospectus.

\* For any pool of Mortgage Loans backing an underlying REMIC or RCR Certificate, if a preliminary calculation indicated that the sum of the WAM and WALA for that pool exceeded the longest original term to maturity of any Mortgage Loan in the pool, the WALA used in determining the information shown in the related table was reduced as necessary to insure that the sum of the WAM and WALA does not exceed such original term to maturity.

REMIC Certificates		Available Recombinations(1)						
		RCR Certificates						
<u>Classes</u>	<u>Original Balances</u>	<u>RCR Classes</u>	<u>Original Balances</u>	<u>Principal Type(2)</u>	<u>Interest Rate</u>	<u>Interest Type(2)</u>	<u>CUSIP Number</u>	<u>Final Distribution Date</u>
<b>Recombination 1</b>								
AU	\$ 575,000	AY (3)	\$ 56,757,000	SC/PT	3.50%	FIX	3136B34S6	September 2048
AM	38,716,000							
ZA	17,466,000							
<b>Recombination 2</b>								
AU	575,000	AT	39,291,000	SC/SEQ/AD	3.50	FIX	3136B34T4	September 2048
AM	38,716,000							
<b>Recombination 3</b>								
DV	4,500,000	DY (4)	23,500,000	SEQ	4.00	FIX	3136B34U1	March 2049
VD	9,000,000							
DZ	10,000,000							
<b>Recombination 4</b>								
QA	33,500,000	QB	33,500,000	SEQ	3.00	FIX	3136B34W7	June 2045
		QI	3,722,222 (5)	NTL	4.50	FIX/IO	3136B34X5	June 2045
<b>Recombination 5</b>								
K	6,847,000	KD	14,901,000	SEQ/AD	4.00	FIX	3136B34V9	May 2030
VK	8,054,000							
<b>Recombination 6</b>								
VM	3,218,000	MY (6)	8,023,000	PAC/AD	4.00	FIX	3136B34Y3	March 2049
MZ	4,805,000							
<b>Recombination 7</b>								
MB	122,274,000	MC	122,274,000	PAC/AD	3.25	FIX	3136B34Z0	June 2048
MI	6,793,000 (5)							
<b>Recombination 8</b>								
MB	122,274,000	MA	122,274,000	PAC/AD	3.50	FIX	3136B35A4	June 2048
MI	13,586,000 (5)							
<b>Recombination 9</b>								
MB	122,274,000	MD	122,274,000	PAC/AD	3.75	FIX	3136B35B2	June 2048
MI	20,379,000 (5)							
<b>Recombination 10</b>								
MB	122,274,000	ME	122,274,000	PAC/AD	4.00	FIX	3136B35C0	June 2048
MI	27,172,000 (5)							

REMIC Certificates		RCR Certificates						
Classes	Original Balances	RCR Classes	Original Balances	Principal Type(2)	Interest Rate	Interest Type(2)	CUSIP Number	Final Distribution Date
Recombination 11								
MB	\$ 81,516,000	MG	\$ 81,516,000	PAC/AD	4.50%	FIX	3136B35D8	June 2048
MI	27,172,000 (5)							
Recombination 12								
SH	22,306,343 (5)	SK	22,306,343 (5)	NTL	(7)	INV/IO	3136B35E6	March 2049
Recombination 13								
VC	4,517,000	CL (8)	12,401,754	SC/SEQ	3.50	FIX	3136B35F3	April 2048
ZC	7,884,754							

- (1) REMIC Certificates and RCR Certificates in each Recombination may be exchanged only in the proportions of *original* principal or notional principal balances for the related Classes shown in this Schedule 1 (disregarding any retired Classes). For example, if a particular Recombination includes two REMIC Classes and one RCR Class whose *original* principal balances shown in the schedule reflect a 1:1:2 relationship, the same 1:1:2 relationship among the *original* principal balances of those REMIC and RCR Classes must be maintained in any exchange. This is true even if, as a result of the applicable payment priority sequence, the relationship between their *current* principal balances has changed over time. Moreover, if as a result of a proposed exchange, a Certificateholder would hold a REMIC Certificate or RCR Certificate of a Class in an amount less than the applicable minimum denomination for that Class, the Certificateholder will be unable to effect the proposed exchange. See "Description of the Certificates-General- *Authorized Denominations*" in this prospectus supplement.
- (2) See "Description of the Certificates-Class Definitions and Abbreviations" in the REMIC Prospectus.
- (3) Principal payments on the REMIC Certificates in Recombination 1 from the ZA Accrual Amount will be paid as interest on the related RCR Certificates, and thus will not reduce the principal balances of those RCR Certificates.
- (4) Principal payments on the REMIC Certificates in Recombination 3 from the DZ Accrual Amount will be paid as interest on the related RCR Certificates, and thus will not reduce the principal balances of those RCR Certificates.
- (5) Notional principal balances. These Classes are Interest Only Classes. See page S-6 for a description of how their notional principal balances are calculated.
- (6) Principal payments on the REMIC Certificates in Recombination 6 from the MZ Accrual Amount will be paid as interest on the related RCR Certificates, and thus will not reduce the principal balances of those RCR Certificates.
- (7) For a description of this interest rate, see "Summary-Interest Rates" in this prospectus supplement.
- (8) Principal payments on the REMIC Certificates in Recombination 13 from the ZC Accrual Amount will be paid as interest on the related RCR Certificates, and thus will not reduce the principal balances of those RCR Certificates.

## Principal Balance Schedules

### *Aggregate Group I Planned Balances*

<u>Distribution Date</u>	<u>Planned Balance</u>	<u>Distribution Date</u>	<u>Planned Balance</u>	<u>Distribution Date</u>	<u>Planned Balance</u>
Initial Balance .....	\$130,297,000.00	January 2024 .....	\$ 72,108,870.35	December 2028 .....	\$ 31,474,610.97
March 2019 .....	129,645,637.57	February 2024 .....	71,210,954.34	January 2029 .....	31,015,196.54
April 2019 .....	128,962,836.04	March 2024 .....	70,318,420.97	February 2029 .....	30,561,946.38
May 2019 .....	128,248,901.37	April 2024 .....	69,431,231.53	March 2029 .....	30,114,781.31
June 2019 .....	127,504,159.46	May 2024 .....	68,549,347.59	April 2029 .....	29,673,623.16
July 2019 .....	126,728,955.92	June 2024 .....	67,672,730.96	May 2029 .....	29,238,394.72
August 2019 .....	125,923,655.74	July 2024 .....	66,801,343.66	June 2029 .....	28,809,019.75
September 2019 .....	125,088,643.07	August 2024 .....	65,935,147.98	July 2029 .....	28,385,422.99
October 2019 .....	124,224,320.81	September 2024 .....	65,074,106.44	August 2029 .....	27,967,530.08
November 2019 .....	123,331,110.32	October 2024 .....	64,218,181.78	September 2029 .....	27,555,267.64
December 2019 .....	122,409,451.02	November 2024 .....	63,367,337.00	October 2029 .....	27,148,563.18
January 2020 .....	121,459,800.03	December 2024 .....	62,521,535.32	November 2029 .....	26,747,345.12
February 2020 .....	120,482,631.75	January 2025 .....	61,680,740.17	December 2029 .....	26,351,542.79
March 2020 .....	119,478,437.46	February 2025 .....	60,844,915.24	January 2030 .....	25,961,086.41
April 2020 .....	118,447,724.83	March 2025 .....	60,014,024.43	February 2030 .....	25,575,907.05
May 2020 .....	117,391,017.50	April 2025 .....	59,188,031.89	March 2030 .....	25,195,936.68
June 2020 .....	116,308,854.60	May 2025 .....	58,366,901.95	April 2030 .....	24,821,108.09
July 2020 .....	115,201,790.22	June 2025 .....	57,551,203.16	May 2030 .....	24,451,354.95
August 2020 .....	114,070,392.94	July 2025 .....	56,746,212.38	June 2030 .....	24,086,611.72
September 2020 .....	112,915,245.28	August 2025 .....	55,951,793.76	July 2030 .....	23,726,813.73
October 2020 .....	111,767,297.31	September 2025 .....	55,167,813.14	August 2030 .....	23,371,897.09
November 2020 .....	110,626,498.85	October 2025 .....	54,394,138.03	September 2030 .....	23,021,798.73
December 2020 .....	109,492,800.01	November 2025 .....	53,630,637.58	October 2030 .....	22,676,456.35
January 2021 .....	108,366,151.26	December 2025 .....	52,877,182.58	November 2030 .....	22,335,808.46
February 2021 .....	107,246,503.33	January 2026 .....	52,133,645.42	December 2030 .....	21,999,794.34
March 2021 .....	106,133,807.31	February 2026 .....	51,399,900.08	January 2031 .....	21,668,354.02
April 2021 .....	105,028,014.59	March 2026 .....	50,675,822.10	February 2031 .....	21,341,428.28
May 2021 .....	103,929,076.85	April 2026 .....	49,961,288.60	March 2031 .....	21,018,958.67
June 2021 .....	102,836,946.10	May 2026 .....	49,256,178.18	April 2031 .....	20,700,887.46
July 2021 .....	101,751,574.63	June 2026 .....	48,560,370.99	May 2031 .....	20,387,157.65
August 2021 .....	100,672,915.06	July 2026 .....	47,873,748.67	June 2031 .....	20,077,712.95
September 2021 .....	99,600,920.30	August 2026 .....	47,196,194.32	July 2031 .....	19,772,497.79
October 2021 .....	98,535,543.56	September 2026 .....	46,527,592.50	August 2031 .....	19,471,457.29
November 2021 .....	97,476,738.33	October 2026 .....	45,867,829.20	September 2031 .....	19,174,537.28
December 2021 .....	96,424,458.43	November 2026 .....	45,216,791.87	October 2031 .....	18,881,684.25
January 2022 .....	95,378,657.94	December 2026 .....	44,574,369.30	November 2031 .....	18,592,845.37
February 2022 .....	94,339,291.24	January 2027 .....	43,940,451.73	December 2031 .....	18,307,968.49
March 2022 .....	93,306,313.01	February 2027 .....	43,314,930.72	January 2032 .....	18,027,002.11
April 2022 .....	92,279,678.22	March 2027 .....	42,697,699.21	February 2032 .....	17,749,895.37
May 2022 .....	91,259,342.10	April 2027 .....	42,088,651.47	March 2032 .....	17,476,598.07
June 2022 .....	90,245,260.19	May 2027 .....	41,487,683.08	April 2032 .....	17,207,060.62
July 2022 .....	89,237,388.30	June 2027 .....	40,894,690.92	May 2032 .....	16,941,234.08
August 2022 .....	88,235,682.52	July 2027 .....	40,309,573.18	June 2032 .....	16,679,070.11
September 2022 .....	87,240,099.21	August 2027 .....	39,732,229.31	July 2032 .....	16,420,520.99
October 2022 .....	86,250,595.04	September 2027 .....	39,162,559.99	August 2032 .....	16,165,539.60
November 2022 .....	85,267,126.90	October 2027 .....	38,600,467.18	September 2032 .....	15,914,079.42
December 2022 .....	84,289,652.00	November 2027 .....	38,045,854.03	October 2032 .....	15,666,094.51
January 2023 .....	83,318,127.81	December 2027 .....	37,498,624.93	November 2032 .....	15,421,539.52
February 2023 .....	82,352,512.04	January 2028 .....	36,958,685.45	December 2032 .....	15,180,369.66
March 2023 .....	81,392,762.71	February 2028 .....	36,425,942.32	January 2033 .....	14,942,540.72
April 2023 .....	80,438,838.07	March 2028 .....	35,900,303.48	February 2033 .....	14,708,009.05
May 2023 .....	79,490,696.65	April 2028 .....	35,381,677.98	March 2033 .....	14,476,731.53
June 2023 .....	78,548,297.25	May 2028 .....	34,869,976.02	April 2033 .....	14,248,665.61
July 2023 .....	77,611,598.91	June 2028 .....	34,365,108.94	May 2033 .....	14,023,769.27
August 2023 .....	76,680,560.94	July 2028 .....	33,866,989.16	June 2033 .....	13,802,001.03
September 2023 .....	75,755,142.91	August 2028 .....	33,375,530.22	July 2033 .....	13,583,319.92
October 2023 .....	74,835,304.63	September 2028 .....	32,890,646.72	August 2033 .....	13,367,685.49
November 2023 .....	73,921,006.19	October 2028 .....	32,412,254.35	September 2033 .....	13,155,057.82
December 2023 .....	73,012,207.90	November 2028 .....	31,940,269.84	October 2033 .....	12,945,397.49



**Aggregate Group I (Continued)**

<u>Distribution Date</u>	<u>Planned Balance</u>	<u>Distribution Date</u>	<u>Planned Balance</u>	<u>Distribution Date</u>	<u>Planned Balance</u>
November 2033 . . . . .	\$ 12,738,665.56	September 2038 . . . . .	\$ 4,651,624.26	July 2043 . . . . .	\$ 1,256,941.04
December 2033 . . . . .	12,534,823.61	October 2038 . . . . .	4,563,736.63	August 2043 . . . . .	1,221,679.18
January 2034 . . . . .	12,333,833.70	November 2038 . . . . .	4,477,158.83	September 2043 . . . . .	1,187,000.95
February 2034 . . . . .	12,135,658.36	December 2038 . . . . .	4,391,873.11	October 2043 . . . . .	1,152,898.06
March 2034 . . . . .	11,940,260.60	January 2039 . . . . .	4,307,861.95	November 2043 . . . . .	1,119,362.33
April 2034 . . . . .	11,747,603.91	February 2039 . . . . .	4,225,108.05	December 2043 . . . . .	1,086,385.71
May 2034 . . . . .	11,557,652.23	March 2039 . . . . .	4,143,594.33	January 2044 . . . . .	1,053,960.24
June 2034 . . . . .	11,370,369.97	April 2039 . . . . .	4,063,303.95	February 2044 . . . . .	1,022,078.07
July 2034 . . . . .	11,185,721.99	May 2039 . . . . .	3,984,220.28	March 2044 . . . . .	990,731.45
August 2034 . . . . .	11,003,673.59	June 2039 . . . . .	3,906,326.89	April 2044 . . . . .	959,912.74
September 2034 . . . . .	10,824,190.51	July 2039 . . . . .	3,829,607.59	May 2044 . . . . .	929,614.39
October 2034 . . . . .	10,647,238.93	August 2039 . . . . .	3,754,046.36	June 2044 . . . . .	899,828.96
November 2034 . . . . .	10,472,785.46	September 2039 . . . . .	3,679,627.44	July 2044 . . . . .	870,549.10
December 2034 . . . . .	10,300,797.15	October 2039 . . . . .	3,606,335.22	August 2044 . . . . .	841,767.58
January 2035 . . . . .	10,131,241.43	November 2039 . . . . .	3,534,154.33	September 2044 . . . . .	813,477.24
February 2035 . . . . .	9,964,086.18	December 2039 . . . . .	3,463,069.59	October 2044 . . . . .	785,671.02
March 2035 . . . . .	9,799,299.68	January 2040 . . . . .	3,393,066.01	November 2044 . . . . .	758,341.97
April 2035 . . . . .	9,636,850.61	February 2040 . . . . .	3,324,128.79	December 2044 . . . . .	731,483.22
May 2035 . . . . .	9,476,708.05	March 2040 . . . . .	3,256,243.35	January 2045 . . . . .	705,087.99
June 2035 . . . . .	9,318,841.47	April 2040 . . . . .	3,189,395.27	February 2045 . . . . .	679,149.59
July 2035 . . . . .	9,163,220.74	May 2040 . . . . .	3,123,570.32	March 2045 . . . . .	653,661.42
August 2035 . . . . .	9,009,816.10	June 2040 . . . . .	3,058,754.48	April 2045 . . . . .	628,616.99
September 2035 . . . . .	8,858,598.18	July 2040 . . . . .	2,994,933.87	May 2045 . . . . .	604,009.86
October 2035 . . . . .	8,709,537.99	August 2040 . . . . .	2,932,094.84	June 2045 . . . . .	579,833.70
November 2035 . . . . .	8,562,606.89	September 2040 . . . . .	2,870,223.88	July 2045 . . . . .	556,082.26
December 2035 . . . . .	8,417,776.63	October 2040 . . . . .	2,809,307.67	August 2045 . . . . .	532,749.36
January 2036 . . . . .	8,275,019.29	November 2040 . . . . .	2,749,333.07	September 2045 . . . . .	509,828.93
February 2036 . . . . .	8,134,307.34	December 2040 . . . . .	2,690,287.08	October 2045 . . . . .	487,314.97
March 2036 . . . . .	7,995,613.58	January 2041 . . . . .	2,632,156.92	November 2045 . . . . .	465,201.54
April 2036 . . . . .	7,858,911.16	February 2041 . . . . .	2,574,929.94	December 2045 . . . . .	443,482.80
May 2036 . . . . .	7,724,173.59	March 2041 . . . . .	2,518,593.65	January 2046 . . . . .	422,152.99
June 2036 . . . . .	7,591,374.69	April 2041 . . . . .	2,463,135.76	February 2046 . . . . .	401,206.42
July 2036 . . . . .	7,460,488.64	May 2041 . . . . .	2,408,544.10	March 2046 . . . . .	380,637.47
August 2036 . . . . .	7,331,489.94	June 2041 . . . . .	2,354,806.68	April 2046 . . . . .	360,440.62
September 2036 . . . . .	7,204,353.41	July 2041 . . . . .	2,301,911.68	May 2046 . . . . .	340,610.39
October 2036 . . . . .	7,079,054.21	August 2041 . . . . .	2,249,847.39	June 2046 . . . . .	321,141.41
November 2036 . . . . .	6,955,567.80	September 2041 . . . . .	2,198,602.30	July 2046 . . . . .	302,028.35
December 2036 . . . . .	6,833,869.96	October 2041 . . . . .	2,148,165.02	August 2046 . . . . .	283,265.96
January 2037 . . . . .	6,713,936.79	November 2041 . . . . .	2,098,524.33	September 2046 . . . . .	264,849.09
February 2037 . . . . .	6,595,744.69	December 2041 . . . . .	2,049,669.15	October 2046 . . . . .	246,772.62
March 2037 . . . . .	6,479,270.35	January 2042 . . . . .	2,001,588.53	November 2046 . . . . .	229,031.51
April 2037 . . . . .	6,364,490.78	February 2042 . . . . .	1,954,271.67	December 2046 . . . . .	211,620.81
May 2037 . . . . .	6,251,383.27	March 2042 . . . . .	1,907,707.94	January 2047 . . . . .	194,535.60
June 2037 . . . . .	6,139,925.40	April 2042 . . . . .	1,861,886.81	February 2047 . . . . .	177,771.06
July 2037 . . . . .	6,030,095.06	May 2042 . . . . .	1,816,797.92	March 2047 . . . . .	161,322.42
August 2037 . . . . .	5,921,870.40	June 2042 . . . . .	1,772,431.01	April 2047 . . . . .	145,184.98
September 2037 . . . . .	5,815,229.85	July 2042 . . . . .	1,728,775.99	May 2047 . . . . .	129,354.09
October 2037 . . . . .	5,710,152.14	August 2042 . . . . .	1,685,822.88	June 2047 . . . . .	113,825.18
November 2037 . . . . .	5,606,616.26	September 2042 . . . . .	1,643,561.85	July 2047 . . . . .	98,593.73
December 2037 . . . . .	5,504,601.46	October 2042 . . . . .	1,601,983.18	August 2047 . . . . .	83,655.29
January 2038 . . . . .	5,404,087.26	November 2042 . . . . .	1,561,077.29	September 2047 . . . . .	69,005.46
February 2038 . . . . .	5,305,053.47	December 2042 . . . . .	1,520,834.72	October 2047 . . . . .	54,639.92
March 2038 . . . . .	5,207,480.13	January 2043 . . . . .	1,481,246.13	November 2047 . . . . .	40,554.38
April 2038 . . . . .	5,111,347.54	February 2043 . . . . .	1,442,302.33	December 2047 . . . . .	26,744.64
May 2038 . . . . .	5,016,636.27	March 2043 . . . . .	1,403,994.21	January 2048 . . . . .	13,206.52
June 2038 . . . . .	4,923,327.12	April 2043 . . . . .	1,366,312.82	February 2048 and thereafter . . . . .	0.00
July 2038 . . . . .	4,831,401.17	May 2043 . . . . .	1,329,249.30		
August 2038 . . . . .	4,740,839.70	June 2043 . . . . .	1,292,794.91		

## Aggregate Group II Planned Balances

<u>Distribution Date</u>	<u>Planned Balance</u>	<u>Distribution Date</u>	<u>Planned Balance</u>	<u>Distribution Date</u>	<u>Planned Balance</u>
Initial Balance .....	\$ 9,059,000.00	March 2024 .....	\$ 4,566,146.91	April 2029 .....	\$ 1,542,523.41
March 2019 .....	9,038,589.71	April 2024 .....	4,495,585.71	May 2029 .....	1,513,951.31
April 2019 .....	9,014,870.26	May 2024 .....	4,425,710.91	June 2029 .....	1,485,884.52
May 2019 .....	8,987,850.87	June 2024 .....	4,356,516.03	July 2029 .....	1,458,314.35
June 2019 .....	8,957,543.73	July 2024 .....	4,287,994.67	August 2029 .....	1,431,232.25
July 2019 .....	8,923,963.96	August 2024 .....	4,220,140.49	September 2029 ....	1,404,629.80
August 2019 .....	8,887,129.68	September 2024 ....	4,152,947.19	October 2029 .....	1,378,498.74
September 2019 ....	8,847,061.94	October 2024 .....	4,086,408.57	November 2029 ....	1,352,830.94
October 2019 .....	8,803,784.71	November 2024 ....	4,020,518.43	December 2029 ....	1,327,618.42
November 2019 ....	8,757,324.90	December 2024 .....	3,955,270.68	January 2030 .....	1,302,853.33
December 2019 .....	8,707,712.31	January 2025 .....	3,890,659.26	February 2030 .....	1,278,527.93
January 2020 .....	8,654,979.62	February 2025 .....	3,826,678.16	March 2030 .....	1,254,634.66
February 2020 .....	8,599,162.33	March 2025 .....	3,763,321.45	April 2030 .....	1,231,166.03
March 2020 .....	8,540,298.74	April 2025 .....	3,700,583.23	May 2030 .....	1,208,114.73
April 2020 .....	8,478,429.93	May 2025 .....	3,638,457.68	June 2030 .....	1,185,473.55
May 2020 .....	8,413,599.69	June 2025 .....	3,576,939.01	July 2030 .....	1,163,235.39
June 2020 .....	8,345,854.47	July 2025 .....	3,516,021.50	August 2030 .....	1,141,393.29
July 2020 .....	8,275,243.35	August 2025 .....	3,455,699.47	September 2030 ....	1,119,940.40
August 2020 .....	8,201,817.97	September 2025 ....	3,395,967.31	October 2030 .....	1,098,870.00
September 2020 ....	8,125,632.46	October 2025 .....	3,336,819.46	November 2030 ....	1,078,175.46
October 2020 .....	8,046,743.39	November 2025 ....	3,278,250.38	December 2030 ....	1,057,850.27
November 2020 ....	7,965,209.69	December 2025 .....	3,220,254.63	January 2031 .....	1,037,888.05
December 2020 .....	7,881,092.60	January 2026 .....	3,162,826.79	February 2031 .....	1,018,282.51
January 2021 .....	7,794,455.56	February 2026 .....	3,105,961.49	March 2031 .....	999,027.47
February 2021 .....	7,705,364.16	March 2026 .....	3,049,995.22	April 2031 .....	980,116.85
March 2021 .....	7,613,886.04	April 2026 .....	2,995,003.25	May 2031 .....	961,544.69
April 2021 .....	7,520,090.82	May 2026 .....	2,940,968.98	June 2031 .....	943,305.12
May 2021 .....	7,424,049.99	June 2026 .....	2,887,876.06	July 2031 .....	925,392.36
June 2021 .....	7,325,836.83	July 2026 .....	2,835,708.44	August 2031 .....	907,800.74
July 2021 .....	7,228,569.93	August 2026 .....	2,784,450.34	September 2031 ....	890,524.69
August 2021 .....	7,132,240.41	September 2026 ....	2,734,086.22	October 2031 .....	873,558.74
September 2021 ....	7,036,839.47	October 2026 .....	2,684,600.83	November 2031 ....	856,897.49
October 2021 .....	6,942,358.39	November 2026 ....	2,635,979.16	December 2031 ....	840,535.65
November 2021 ....	6,848,788.56	December 2026 .....	2,588,206.46	January 2032 .....	824,468.01
December 2021 .....	6,756,121.40	January 2027 .....	2,541,268.23	February 2032 .....	808,689.46
January 2022 .....	6,664,348.46	February 2027 .....	2,495,150.21	March 2032 .....	793,194.98
February 2022 .....	6,573,461.34	March 2027 .....	2,449,838.37	April 2032 .....	777,979.61
March 2022 .....	6,483,451.71	April 2027 .....	2,405,318.95	May 2032 .....	763,038.50
April 2022 .....	6,394,311.34	May 2027 .....	2,361,578.38	June 2032 .....	748,366.87
May 2022 .....	6,306,032.08	June 2027 .....	2,318,603.34	July 2032 .....	733,960.03
June 2022 .....	6,218,605.82	July 2027 .....	2,276,380.75	August 2032 .....	719,813.36
July 2022 .....	6,132,024.56	August 2027 .....	2,234,897.72	September 2032 ....	705,922.33
August 2022 .....	6,046,280.37	September 2027 ....	2,194,141.59	October 2032 .....	692,282.48
September 2022 ....	5,961,365.37	October 2027 .....	2,154,099.92	November 2032 ....	678,889.43
October 2022 .....	5,877,271.78	November 2027 ....	2,114,760.48	December 2032 ....	665,738.87
November 2022 ....	5,793,991.88	December 2027 .....	2,076,111.23	January 2033 .....	652,826.57
December 2022 .....	5,711,518.01	January 2028 .....	2,038,140.35	February 2033 .....	640,148.36
January 2023 .....	5,629,842.62	February 2028 .....	2,000,836.22	March 2033 .....	627,700.16
February 2023 .....	5,548,958.18	March 2028 .....	1,964,187.40	April 2033 .....	615,477.94
March 2023 .....	5,468,857.27	April 2028 .....	1,928,182.66	May 2033 .....	603,477.76
April 2023 .....	5,389,532.51	May 2028 .....	1,892,810.94	June 2033 .....	591,695.72
May 2023 .....	5,310,976.62	June 2028 .....	1,858,061.40	July 2033 .....	580,128.02
June 2023 .....	5,233,182.35	July 2028 .....	1,823,923.35	August 2033 .....	568,770.89
July 2023 .....	5,156,142.54	August 2028 .....	1,790,386.30	September 2033 ....	557,620.66
August 2023 .....	5,079,850.11	September 2028 ....	1,757,439.93	October 2033 .....	546,673.69
September 2023 ....	5,004,298.01	October 2028 .....	1,725,074.09	November 2033 ....	535,926.43
October 2023 .....	4,929,479.28	November 2028 ....	1,693,278.81	December 2033 ....	525,375.36
November 2023 ....	4,855,387.02	December 2028 .....	1,662,044.28	January 2034 .....	515,017.05
December 2023 .....	4,782,014.40	January 2029 .....	1,631,360.88	February 2034 .....	504,848.12
January 2024 .....	4,709,354.63	February 2029 .....	1,601,219.11	March 2034 .....	494,865.24
February 2024 .....	4,637,401.02	March 2029 .....	1,571,609.68	April 2034 .....	485,065.15

**Aggregate Group II (Continued)**

<u>Distribution Date</u>	<u>Planned Balance</u>	<u>Distribution Date</u>	<u>Planned Balance</u>	<u>Distribution Date</u>	<u>Planned Balance</u>
May 2034 .....	\$ 475,444.62	April 2039 .....	\$ 135,625.75	March 2044 .....	\$ 28,606.86
June 2034 .....	466,000.51	May 2039 .....	132,552.54	April 2044 .....	27,698.23
July 2034 .....	456,729.71	June 2039 .....	129,539.19	May 2044 .....	26,809.35
August 2034 .....	447,629.17	July 2039 .....	126,584.60	June 2044 .....	25,939.85
September 2034 .....	438,695.90	August 2039 .....	123,687.72	July 2044 .....	25,089.36
October 2034 .....	429,926.94	September 2039 .....	120,847.49	August 2044 .....	24,257.50
November 2034 .....	421,319.41	October 2039 .....	118,062.87	September 2044 .....	23,443.93
December 2034 .....	412,870.45	November 2039 .....	115,332.86	October 2044 .....	22,648.28
January 2035 .....	404,577.28	December 2039 .....	112,656.46	November 2044 .....	21,870.22
February 2035 .....	396,437.14	January 2040 .....	110,032.69	December 2044 .....	21,109.40
March 2035 .....	388,447.34	February 2040 .....	107,460.59	January 2045 .....	20,365.50
April 2035 .....	380,605.21	March 2040 .....	104,939.21	February 2045 .....	19,638.17
May 2035 .....	372,908.15	April 2040 .....	102,467.63	March 2045 .....	18,927.11
June 2035 .....	365,353.59	May 2040 .....	100,044.93	April 2045 .....	18,232.00
July 2035 .....	357,939.02	June 2040 .....	97,670.22	May 2045 .....	17,552.53
August 2035 .....	350,661.95	July 2040 .....	95,342.63	June 2045 .....	16,888.39
September 2035 .....	343,519.96	August 2040 .....	93,061.27	July 2045 .....	16,239.28
October 2035 .....	336,510.65	September 2040 .....	90,825.32	August 2045 .....	15,604.92
November 2035 .....	329,631.67	October 2040 .....	88,633.92	September 2045 .....	14,985.01
December 2035 .....	322,880.71	November 2040 .....	86,486.27	October 2045 .....	14,379.27
January 2036 .....	316,255.50	December 2040 .....	84,381.55	November 2045 .....	13,787.42
February 2036 .....	309,753.81	January 2041 .....	82,318.98	December 2045 .....	13,209.20
March 2036 .....	303,373.44	February 2041 .....	80,297.78	January 2046 .....	12,644.33
April 2036 .....	297,112.25	March 2041 .....	78,317.18	February 2046 .....	12,092.55
May 2036 .....	290,968.11	April 2041 .....	76,376.44	March 2046 .....	11,553.61
June 2036 .....	284,938.94	May 2041 .....	74,474.82	April 2046 .....	11,027.24
July 2036 .....	279,022.69	June 2041 .....	72,611.60	May 2046 .....	10,513.21
August 2036 .....	273,217.36	July 2041 .....	70,786.06	June 2046 .....	10,011.27
September 2036 .....	267,520.98	August 2041 .....	68,997.50	July 2046 .....	9,521.18
October 2036 .....	261,931.59	September 2041 .....	67,245.25	August 2046 .....	9,042.70
November 2036 .....	256,447.30	October 2041 .....	65,528.63	September 2046 .....	8,575.60
December 2036 .....	251,066.22	November 2041 .....	63,846.97	October 2046 .....	8,119.67
January 2037 .....	245,786.52	December 2041 .....	62,199.63	November 2046 .....	7,674.66
February 2037 .....	240,606.39	January 2042 .....	60,585.97	December 2046 .....	7,240.38
March 2037 .....	235,524.04	February 2042 .....	59,005.35	January 2047 .....	6,816.59
April 2037 .....	230,537.73	March 2042 .....	57,457.17	February 2047 .....	6,403.10
May 2037 .....	225,645.75	April 2042 .....	55,940.82	March 2047 .....	5,999.69
June 2037 .....	220,846.39	May 2042 .....	54,455.70	April 2047 .....	5,606.17
July 2037 .....	216,138.02	June 2042 .....	53,001.23	May 2047 .....	5,222.33
August 2037 .....	211,518.98	July 2042 .....	51,576.84	June 2047 .....	4,847.99
September 2037 .....	206,987.69	August 2042 .....	50,181.97	July 2047 .....	4,482.93
October 2037 .....	202,542.57	September 2042 .....	48,816.05	August 2047 .....	4,126.99
November 2037 .....	198,182.08	October 2042 .....	47,478.56	September 2047 .....	3,779.98
December 2037 .....	193,904.68	November 2042 .....	46,168.94	October 2047 .....	3,441.71
January 2038 .....	189,708.90	December 2042 .....	44,886.69	November 2047 .....	3,112.00
February 2038 .....	185,593.26	January 2043 .....	43,631.28	December 2047 .....	2,790.69
March 2038 .....	181,556.32	February 2043 .....	42,402.21	January 2048 .....	2,477.60
April 2038 .....	177,596.66	March 2043 .....	41,198.98	February 2048 .....	2,172.56
May 2038 .....	173,712.90	April 2043 .....	40,021.11	March 2048 .....	1,875.41
June 2038 .....	169,903.66	May 2043 .....	38,868.11	April 2048 .....	1,585.98
July 2038 .....	166,167.61	June 2043 .....	37,739.52	May 2048 .....	1,304.12
August 2038 .....	162,503.41	July 2043 .....	36,634.87	June 2048 .....	1,029.68
September 2038 .....	158,909.78	August 2043 .....	35,553.71	July 2048 .....	762.49
October 2038 .....	155,385.43	September 2043 .....	34,495.60	August 2048 .....	502.41
November 2038 .....	151,929.12	October 2043 .....	33,460.09	September 2048 .....	249.30
December 2038 .....	148,539.61	November 2043 .....	32,446.76	October 2048 .....	3.00
January 2039 .....	145,215.70	December 2043 .....	31,455.18	November 2048 and thereafter .....	0.00
February 2039 .....	141,956.19	January 2044 .....	30,484.94		
March 2039 .....	138,759.93	February 2044 .....	29,535.64		

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No one is authorized to give information or to make representations in connection with the Certificates other than the information and representations contained in or incorporated into this Prospectus Supplement and the additional Disclosure Documents. We take no responsibility for any unauthorized information or representation. This Prospectus Supplement and the additional Disclosure Documents do not constitute an offer or solicitation with regard to the Certificates if it is illegal to make such an offer or solicitation to you under state law. By delivering this Prospectus Supplement and the additional Disclosure Documents at any time, no one implies that the information contained herein or therein is correct after the date hereof or thereof.

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**\$792,136,056**



**Fannie Mae®**

**Guaranteed REMIC  
Pass-Through Certificates**

**Fannie Mae REMIC Trust 2019-9**

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**PROSPECTUS SUPPLEMENT**

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**Wells Fargo Securities**

**February 22, 2019**

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